



Documento nº2: Anejos

Anejo I: Cálculos de tráfico

Estudio de alternativas de conexión viaria y ferroviaria entre los puertos de Sagunto y València

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Acceso Norte



Hipótesis 1

Carretera convencional

HIGHPLAN 2012 Conceptual Planning Analysis

Project Information

| | | | | | |
|----------------------|-----------------------|-----------------------|---------------|----------------------|-------------------|
| Analyst | | Highway Name | Acceso Norte | Study Period | Standard K |
| Date Prepared | 25/4/2020 13:49:01 | From | Port València | Analysis Type | Two-Lane Segment |
| Agency | | To | V-21 | Program | HIGHPLAN 2012 |
| Area Type | Large/Other Urbanized | Peak Direction | Northbound | Version Date | 12/12/2012 |
| File Name | | | | | |
| User Notes | Año 2050 | | | | |

Highway Data

| Roadway Variables | | | | Traffic Variables | | | |
|------------------------|--------|-------------------------|-----|---------------------------------|-------|--------------------------|-------|
| Segment Length | 10,000 | Median | No | AADT | 6034 | PHF | 0,900 |
| # Thru Lanes | 2 | Left Turn Impact | No | K | 0,090 | % Heavy Vehicles | 100,0 |
| Terrain | Level | Pass Lane Length | N/A | D | 0,500 | Base Capacity | 1700 |
| Posted Speed | 55 | % NPZ | 100 | Peak Dir. Hrly. Vol. | 272 | Local Adj. Factor | 1,00 |
| Free Flow Speed | 60 | Class | 3 | Off Peak Dir. Hrly. Vol. | 272 | Adjusted Capacity | 1700 |

LOS Results

| | | | | | | | | | |
|------------------|-------|--------------------------|-------|------------------------|--------|------------|------|--------------|------|
| v/c Ratio | 0,25 | Density | N/A | PTSF | 100,0 | ATS | 25,5 | % FFS | 42,4 |
| FFS Delay | 814,3 | LOS Thresh. Delay | 441,4 | Service Measure | PctFFS | LOS | E | | |

Service Volumes

Note: The maximum normally acceptable directional service volume for LOS E in Florida for this facility type and area type is 1650 veh/h/ln.

| | A | B | C | D | E |
|--------------|---|---|---|---|-------|
| Lanes | Hourly Volume In Peak Direction | | | | |
| 1 | * | * | * | * | 1530 |
| 2 | | | | | |
| 3 | | | | | |
| 4 | | | | | |
| Lanes | Hourly Volume In Both Directions | | | | |
| 2 | * | * | * | * | 3060 |
| 4 | | | | | |
| 6 | | | | | |
| 8 | | | | | |
| Lanes | Annual Average Daily Traffic | | | | |
| 2 | * | * | * | * | 34000 |
| 4 | | | | | |
| 6 | | | | | |
| 8 | | | | | |

* Cannot be achieved based on input data provided.



Hipótesis 1

Carretera multicarril

HIGHPLAN 2012 Conceptual Planning Analysis

Project Information

| | | | | | |
|----------------------|-----------------------|-----------------------|---------------|----------------------|-------------------|
| Analyst | | Highway Name | Acceso Norte | Study Period | Standard K |
| Date Prepared | 25/4/2020 13:49:01 | From | Port València | Analysis Type | Multilane Segment |
| Agency | | To | V-21 | Program | HIGHPLAN 2012 |
| Area Type | Large/Other Urbanized | Peak Direction | Northbound | Version Date | 12/12/2012 |
| File Name | | | | | |
| User Notes | Año 2050 | | | | |

Highway Data

| Roadway Variables | | | | Traffic Variables | | | |
|------------------------|--------|-------------------------|-----|---------------------------------|-------|--------------------------|-------|
| Segment Length | 10,000 | Median | No | AADT | 6034 | PHF | 0,900 |
| # Thru Lanes | 4 | Left Turn Impact | No | K | 0,090 | % Heavy Vehicles | 100,0 |
| Terrain | Level | Pass Lane Length | N/A | D | 0,500 | Base Capacity | 2200 |
| Posted Speed | 55 | % NPZ | N/A | Peak Dir. Hrly. Vol. | 272 | Local Adj. Factor | 1,00 |
| Free Flow Speed | 60 | Class | 3 | Off Peak Dir. Hrly. Vol. | 272 | Adjusted Capacity | 1393 |

LOS Results

| | | | | | | | | | |
|------------------|------|--------------------------|-----|------------------------|---------|------------|------|--------------|-------|
| v/c Ratio | 0,11 | Density | 4,0 | PTSF | N/A | ATS | 60,0 | % FFS | 100,0 |
| FFS Delay | 0,0 | LOS Thresh. Delay | 0,0 | Service Measure | Density | LOS | A | | |

Service Volumes

Note: The maximum normally acceptable directional service volume for LOS E in Florida for this facility type and area type is 1850 veh/h/ln.

| | A | B | C | D | E |
|--------------|---|-------|-------|-------|-------|
| Lanes | Hourly Volume In Peak Direction | | | | |
| 1 | | | | | |
| 2 | 680 | 1160 | 1630 | 2040 | 2210 |
| 3 | 1020 | 1740 | 2450 | 3070 | 3310 |
| 4 | 1360 | 2320 | 3270 | 4090 | 4420 |
| Lanes | Hourly Volume In Both Directions | | | | |
| 2 | | | | | |
| 4 | 1360 | 2320 | 3260 | 4080 | 4420 |
| 6 | 2040 | 3480 | 4900 | 6140 | 6620 |
| 8 | 2720 | 4640 | 6540 | 8180 | 8840 |
| Lanes | Annual Average Daily Traffic | | | | |
| 2 | | | | | |
| 4 | 15200 | 25800 | 36300 | 45400 | 49200 |
| 6 | 22700 | 38700 | 54500 | 68300 | 73600 |
| 8 | 30300 | 51600 | 72700 | 90900 | 98300 |

* Cannot be achieved based on input data provided.

Performance measure results are no longer applicable with the presence of passing lanes. Refer to the service volume tables to obtain the LOS.



Hipótesis 2

Carretera convencional

HIGHPLAN 2012 Conceptual Planning Analysis

Project Information

| | | | | | |
|----------------------|----------------------|-----------------------|---------------|----------------------|-------------------|
| Analyst | | Highway Name | Accés Nord | Study Period | Standard K |
| Date Prepared | 16/4/2020 12:58:06 | From | Port València | Analysis Type | Two-Lane Facility |
| Agency | | To | V-21 | Program | HIGHPLAN 2012 |
| Area Type | Transitioning/Urban | Peak Direction | Northbound | Version Date | 12/12/2012 |
| File Name | Facility Data | | | | |
| User Notes | Año 2050 | | | | |

| | | | | | |
|--------------------------|-------|-------------------------|-------|------------|-------|
| K | 0,100 | D | 0,500 | PHF | 0,900 |
| Local Adj. Factor | 1,00 | % Heavy Vehicles | 100,0 | | |

Segment Data

| Segment | Segment Length | AADT | Hourly Dir. Vol. | Free Flow Speed | Terrain | Left Turn Lanes | Passing Lane | Passing Lane Length | % No Passing Zone |
|---------|----------------|------|------------------|-----------------|---------|-----------------|--------------|---------------------|-------------------|
| | 5,000 | 5364 | 268 | 60 | Level | | No | N/A | 100 |
| | 5,000 | 5364 | 268 | 60 | Level | | No | N/A | 100 |

Intersection Data

| CrossRoad Name | Cycle Length | g/C Ratio | Arrival Type | % Left Turns | % Right Turns | LT Bay |
|----------------|--------------|-----------|--------------|--------------|---------------|--------|
| | -1 | 0,4 | 3 | 0 | 0 | No |

LOS Results

| Segment # | Thru Mvmt Flow Rate | Seg. PTSF | Seg. Speed (mi/h) | Seg. %FFS | Seg. LOS | Int. Sat. Flow Rate | v/c | Control Delay | Int. Approach LOS | | |
|-----------------------|---------------------|------------------|-------------------|------------------------|----------------|---------------------|------------|----------------|-------------------|------------|----------|
| (to) | 268 | 100,0 | 25,3 | 42,2 | E | | | | | | |
| (to) | 268 | 100,0 | 25,3 | 42,2 | E | | | | | | |
| (to) | | | | | | 814 | 0,00 | 0,0 | NA | | |
| Highway Length | 10,000 | FFS Delay | Infinif | Threshold Delay | Infinif | Auto Speed | 0,0 | % Delay | 0,0 | LOS | - |



Hipótesis 2

Carretera multicarril

HIGHPLAN 2012 Conceptual Planning Analysis

Project Information

| | | | | | |
|----------------------|---------------------|-----------------------|---------------|----------------------|-------------------|
| Analyst | | Highway Name | Accés Nord | Study Period | Standard K |
| Date Prepared | 16/4/2020 13:24:14 | From | Port València | Analysis Type | Multilane Segment |
| Agency | | To | V-21 | Program | HIGHPLAN 2012 |
| Area Type | Transitioning/Urban | Peak Direction | Northbound | Version Date | 12/12/2012 |
| File Name | | | | | |
| User Notes | Año 2050 | | | | |

Highway Data

| Roadway Variables | | | | Traffic Variables | | | |
|------------------------|--------|-------------------------|-----|---------------------------------|-------|--------------------------|-------|
| Segment Length | 10,000 | Median | No | AADT | 5364 | PHF | 0,900 |
| # Thru Lanes | 4 | Left Turn Impact | No | K | 0,090 | % Heavy Vehicles | 100,0 |
| Terrain | Level | Pass Lane Length | N/A | D | 0,500 | Base Capacity | 2200 |
| Posted Speed | 55 | % NPZ | N/A | Peak Dir. Hrly. Vol. | 241 | Local Adj. Factor | 1,00 |
| Free Flow Speed | 60 | Class | 3 | Off Peak Dir. Hrly. Vol. | 241 | Adjusted Capacity | 1393 |

LOS Results

| | | | | | | | | | |
|------------------|------|--------------------------|-----|------------------------|---------|------------|------|--------------|-------|
| v/c Ratio | 0,10 | Density | 3,5 | PTSF | N/A | ATS | 60,0 | % FFS | 100,0 |
| FFS Delay | 0,0 | LOS Thresh. Delay | 0,0 | Service Measure | Density | LOS | A | | |

Service Volumes

Note: The maximum normally acceptable directional service volume for LOS E in Florida for this facility type and area type is 1850 veh/h/ln.

| | A | B | C | D | E |
|--------------|---|-------|-------|-------|-------|
| Lanes | Hourly Volume In Peak Direction | | | | |
| 1 | | | | | |
| 2 | 680 | 1160 | 1630 | 2040 | 2210 |
| 3 | 1020 | 1740 | 2450 | 3070 | 3310 |
| 4 | 1360 | 2320 | 3270 | 4090 | 4420 |
| Lanes | Hourly Volume In Both Directions | | | | |
| 2 | | | | | |
| 4 | 1360 | 2320 | 3260 | 4080 | 4420 |
| 6 | 2040 | 3480 | 4900 | 6140 | 6620 |
| 8 | 2720 | 4640 | 6540 | 8180 | 8840 |
| Lanes | Annual Average Daily Traffic | | | | |
| 2 | | | | | |
| 4 | 15200 | 25800 | 36300 | 45400 | 49200 |
| 6 | 22700 | 38700 | 54500 | 68300 | 73600 |
| 8 | 30300 | 51600 | 72700 | 90900 | 98300 |



Hipótesis 3

Carretera convencional

HIGHPLAN 2012 Conceptual Planning Analysis

Project Information

| | | | | | |
|----------------------|-----------------------|-----------------------|---------------|----------------------|-------------------|
| Analyst | | Highway Name | Acceso Norte | Study Period | Standard K |
| Date Prepared | 25/4/2020 13:49:01 | From | Port València | Analysis Type | Two-Lane Segment |
| Agency | | To | V-21 | Program | HIGHPLAN 2012 |
| Area Type | Large/Other Urbanized | Peak Direction | Northbound | Version Date | 12/12/2012 |
| File Name | | | | | |
| User Notes | Año 2050 | | | | |

Highway Data

| Roadway Variables | | | | Traffic Variables | | | |
|------------------------|--------|-------------------------|-----|---------------------------------|-------|--------------------------|-------|
| Segment Length | 10,000 | Median | No | AADT | 4693 | PHF | 0,900 |
| # Thru Lanes | 2 | Left Turn Impact | No | K | 0,090 | % Heavy Vehicles | 100,0 |
| Terrain | Level | Pass Lane Length | N/A | D | 0,500 | Base Capacity | 1700 |
| Posted Speed | 55 | % NPZ | 100 | Peak Dir. Hrly. Vol. | 211 | Local Adj. Factor | 1,00 |
| Free Flow Speed | 60 | Class | 3 | Off Peak Dir. Hrly. Vol. | 211 | Adjusted Capacity | 1700 |

LOS Results

| | | | | | | | | | |
|------------------|--------|--------------------------|-------|------------------------|--------|------------|------|--------------|------|
| v/c Ratio | 0,20 | Density | N/A | PTSF | 100,0 | ATS | 22,0 | % FFS | 36,7 |
| FFS Delay | 1036,3 | LOS Thresh. Delay | 663,3 | Service Measure | PctFFS | LOS | E | | |

Service Volumes

Note: The maximum normally acceptable directional service volume for LOS E in Florida for this facility type and area type is 1650 veh/h/ln.

| | A | B | C | D | E |
|--------------|---|---|---|---|-------|
| Lanes | Hourly Volume In Peak Direction | | | | |
| 1 | * | * | * | * | 1530 |
| 2 | | | | | |
| 3 | | | | | |
| 4 | | | | | |
| Lanes | Hourly Volume In Both Directions | | | | |
| 2 | * | * | * | * | 3060 |
| 4 | | | | | |
| 6 | | | | | |
| 8 | | | | | |
| Lanes | Annual Average Daily Traffic | | | | |
| 2 | * | * | * | * | 34000 |
| 4 | | | | | |
| 6 | | | | | |
| 8 | | | | | |



Hipótesis 3

Carretera multicarril

HIGHPLAN 2012 Conceptual Planning Analysis

Project Information

| | | | | | |
|----------------------|-----------------------|-----------------------|---------------|----------------------|-------------------|
| Analyst | | Highway Name | Acceso Norte | Study Period | Standard K |
| Date Prepared | 25/4/2020 13:49:01 | From | Port València | Analysis Type | Multilane Segment |
| Agency | | To | V-21 | Program | HIGHPLAN 2012 |
| Area Type | Large/Other Urbanized | Peak Direction | Northbound | Version Date | 12/12/2012 |
| File Name | | | | | |
| User Notes | Año 2050 | | | | |

Highway Data

| Roadway Variables | | | | Traffic Variables | | | |
|------------------------|--------|-------------------------|-----|---------------------------------|-------|--------------------------|-------|
| Segment Length | 10,000 | Median | No | AADT | 4693 | PHF | 0,900 |
| # Thru Lanes | 4 | Left Turn Impact | No | K | 0,090 | % Heavy Vehicles | 100,0 |
| Terrain | Level | Pass Lane Length | N/A | D | 0,500 | Base Capacity | 2200 |
| Posted Speed | 55 | % NPZ | N/A | Peak Dir. Hrly. Vol. | 211 | Local Adj. Factor | 1,00 |
| Free Flow Speed | 60 | Class | 3 | Off Peak Dir. Hrly. Vol. | 211 | Adjusted Capacity | 1393 |

LOS Results

| | | | | | | | | | |
|------------------|------|--------------------------|-----|------------------------|---------|------------|------|--------------|-------|
| v/c Ratio | 0,08 | Density | 3,1 | PTSF | N/A | ATS | 60,0 | % FFS | 100,0 |
| FFS Delay | 0,0 | LOS Thresh. Delay | 0,0 | Service Measure | Density | LOS | A | | |

Service Volumes

Note: The maximum normally acceptable directional service volume for LOS E in Florida for this facility type and area type is 1850 veh/h/ln.

| | A | B | C | D | E |
|--------------|---|-------|-------|-------|-------|
| Lanes | Hourly Volume In Peak Direction | | | | |
| 1 | | | | | |
| 2 | 680 | 1160 | 1630 | 2040 | 2210 |
| 3 | 1020 | 1740 | 2450 | 3070 | 3310 |
| 4 | 1360 | 2320 | 3270 | 4090 | 4420 |
| Lanes | Hourly Volume In Both Directions | | | | |
| 2 | | | | | |
| 4 | 1360 | 2320 | 3260 | 4080 | 4420 |
| 6 | 2040 | 3480 | 4900 | 6140 | 6620 |
| 8 | 2720 | 4640 | 6540 | 8180 | 8840 |
| Lanes | Annual Average Daily Traffic | | | | |
| 2 | | | | | |
| 4 | 15200 | 25800 | 36300 | 45400 | 49200 |
| 6 | 22700 | 38700 | 54500 | 68300 | 73600 |
| 8 | 30300 | 51600 | 72700 | 90900 | 98300 |

* Cannot be achieved based on input data provided.

Performance measure results are no longer applicable with the presence of passing lanes. Refer to the service volume.



V-21



Enlace del Acceso Norte con la V-21 al sur de su cruce con la CV-32

Hipótesis 1

FREEPLAN 2012 Conceptual Planning Analysis

Project Information

| | | | | | |
|----------------------|--------------------|-----------------------|------------------------|---------------------|-------------------|
| Analyst | | Freeway Name | V-21 | Study Period | Standard K |
| Date Prepared | 28/4/2020 11:33:59 | From | Cruce CV-32 | Program | FREEPLAN 2012 |
| Agency | | To | Enlace Acceso Norte | Version Date | 12/12/2012 |
| Area Type | Large Urbanized | Peak Direction | Southbound | | |
| File Name | | | | | |
| User Notes | Año 2030 | | | | |

Freeway Data

| | | | | | |
|-------------|--------|---|------|--------------------------------|------|
| AADT | 102847 | Freeway Input Volume | 5091 | Local Adjustment Factor | 1,00 |
| K | 0,09 | PHF | 0,9 | Ramp Metering Exists | No |
| D | 0,55 | Pecent Trucks Entering First Segment | 5,75 | | |

Segment Data

| Seg # | From | To | Input Type | Length (ft) | Hourly Volume (veh/h) | # Lanes | Posted Speed (mi/h) | Free-Flow Speed (mi/h) | Terrain |
|-------|------|----|---------------|-------------|-----------------------|---------|---------------------|------------------------|---------|
| 1 | | | Basic Segment | 72179 | 5091 | 3 | 65 | 70 | Level |

Time Period Independent Weaving Segment Data

| Seg # | Configuration | Short Length (ft) | # Weaving Lanes | Min. Lane Changes Freeway-Ramp | Min. Lane Changes Ramp-Freeway | Min. Lane Changes Ramp-Ramp |
|-------|---------------|-------------------|-----------------|--------------------------------|--------------------------------|-----------------------------|
| | | | | | | |

Ramp Descriptions

| Segment | Type | On-Ramp | | | | | Off-Ramp | | | | |
|---------|------|-----------------------|-----|-------|----------------------|-----|-----------------------|-----|-------|----------------------|-----|
| | | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS |
| | | | | | | | | | | | |

Toll Plaza Input Data

| Segment | Configuration | Number of Manual Lanes | Number of Coin Machine Lanes | Number of ETC-Only Lanes | | |
|---------------------|---------------------------|------------------------|------------------------------|--------------------------|---------------------|--------------------|
| Pct. Manual Payment | Pct. Coin Machine Payment | Pct. ETC-Only Payment | Manual Avg. Service Time | Coin Avg. Service Time | ETC Free-Flow Speed | Prop. Trad. Demand |
| | | | | | | |

Segment Results and LOS

| Seg # | From | To | Analysis Type | Analysis Volume (pc/h) | Capacity (pc/h) | v/c Ratio | Avg. Speed (mi/h) | Density (pc/h/ln) | LOS | Sig Impact | |
|-----------------------|----------------|------------------|---------------|------------------------|-----------------|-------------------|-------------------|-------------------|-------------|------------|----------|
| 1 | | | Basic Segment | 5820 | 7200 | 0,81 | 63,6 | 30,5 | D | N/A | |
| Freeway Length | 13,6703 | FFS Delay | 70,1 | Threshold Delay | 0,0 | Avg. Speed | 63,6 | Density | 30,5 | LOS | D |

Service Volumes

Note: The maximum normally acceptable directional service volume for LOS E in Florida for this facility type and area type is 2100 veh/h/ln.

| | A | B | C | D | E |
|--------------|---|--------|--------|--------|--------|
| Lanes | Hourly Volume In Peak Direction | | | | |
| 4 | 1220 | 2100 | 2820 | 3440 | 3920 |
| 6 | 1820 | 3100 | 4280 | 5160 | 5880 |
| 8 | 2420 | 4160 | 5720 | 6860 | 7840 |
| 10 | 3080 | 5200 | 7120 | 8580 | 9800 |
| 12 | 3680 | 6260 | 8520 | 10300 | 11760 |
| Lanes | Peak Hour Volume Both Directions | | | | |
| 4 | 2230 | 3820 | 5140 | 6240 | 7120 |
| 6 | 3320 | 5640 | 7780 | 9370 | 10700 |
| 8 | 4410 | 7550 | 10410 | 12480 | 14250 |
| 10 | 5600 | 9460 | 12960 | 15600 | 17810 |
| 12 | 6690 | 11370 | 15500 | 18730 | 21380 |
| Lanes | Annual Average Daily Traffic | | | | |
| 4 | 24800 | 42500 | 57100 | 69300 | 79100 |
| 6 | 36900 | 62700 | 86400 | 104100 | 118900 |
| 8 | 49000 | 83900 | 115700 | 138600 | 158300 |
| 10 | 62200 | 105100 | 144000 | 173400 | 197900 |
| 12 | 74300 | 126300 | 172300 | 208100 | 237500 |

FREEPLAN 2012 Conceptual Planning Analysis

Project Information

| | | | | | |
|----------------------|--------------------|-----------------------|---------------------|---------------------|-------------------|
| Analyst | | Freeway Name | V-21 | Study Period | Standard K |
| Date Prepared | 28/4/2020 11:33:59 | From | Cruce CV-32 | Program | FREEPLAN 2012 |
| Agency | | To | Enlace Acceso Norte | Version Date | 12/12/2012 |
| Area Type | Large Urbanized | Peak Direction | Southbound | | |
| File Name | | | | | |
| User Notes | Año 2040 | | | | |

Freeway Data

| | | | | | |
|-------------|--------|--|------|--------------------------------|------|
| AADT | 131504 | Freeway Input Volume | 6509 | Local Adjustment Factor | 1,00 |
| K | 0,09 | PHF | 0,9 | Ramp Metering Exists | No |
| D | 0,55 | Percent Trucks Entering First Segment | 5,42 | | |

Segment Data

| Seg # | From | To | Input Type | Length (ft) | Hourly Volume (veh/h) | # Lanes | Posted Speed (mi/h) | Free-Flow Speed (mi/h) | Terrain |
|-------|------|----|---------------|-------------|-----------------------|---------|---------------------|------------------------|---------|
| 1 | | | Basic Segment | 72179 | 6509 | 3 | 65 | 70 | Level |

Time Period Independent Weaving Segment Data

| Seg # | Configuration | Short Length (ft) | # Weaving Lanes | Min. Lane Changes Freeway-Ramp | Min. Lane Changes Ramp-Freeway | Min. Lane Changes Ramp-Ramp |
|-------|---------------|-------------------|-----------------|--------------------------------|--------------------------------|-----------------------------|
| | | | | | | |

Ramp Descriptions

| Segment | Type | On-Ramp | | | | | Off-Ramp | | | | |
|---------|------|-----------------------|-----|-------|----------------------|-----|-----------------------|-----|-------|----------------------|-----|
| | | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS |
| | | | | | | | | | | | |

Toll Plaza Input Data

| Segment | Configuration | Number of Manual Lanes | Number of Coin Machine Lanes | Number of ETC-Only Lanes | | |
|---------------------|---------------------------|------------------------|------------------------------|--------------------------|---------------------|--------------------|
| Pct. Manual Payment | Pct. Coin Machine Payment | Pct. ETC-Only Payment | Manual Avg. Service Time | Coin Avg. Service Time | ETC Free-Flow Speed | Prop. Trad. Demand |
| | | | | | | |

Segment Results and LOS

| Seg # | From | To | Analysis Type | Analysis Volume (pc/h) | Capacity (pc/h) | v/c Ratio | Avg. Speed (mi/h) | Density (pc/h/ln) | LOS | Sig Impact | |
|-----------------------|----------------|------------------|---------------|------------------------|-----------------|-------------------|-------------------|-------------------|-----------|------------|----------|
| 1 | | | Basic Segment | 7428 | 7200 | 1,03 | ## | ## | F | N/A | |
| Freeway Length | 13,6703 | FFS Delay | ## | Threshold Delay | ## | Avg. Speed | ## | Density | ## | LOS | F |

Service Volumes

Note: The maximum normally acceptable directional service volume for LOS E in Florida for this facility type and area type is 2100 veh/h/ln.

| | A | B | C | D | E |
|--------------|---|--------|--------|--------|--------|
| Lanes | Hourly Volume In Peak Direction | | | | |
| 4 | 1220 | 2100 | 2880 | 3440 | 3920 |
| 6 | 1820 | 3160 | 4280 | 5160 | 5880 |
| 8 | 2480 | 4160 | 5720 | 6880 | 7860 |
| 10 | 3080 | 5200 | 7120 | 8600 | 9820 |
| 12 | 3680 | 6260 | 8580 | 10320 | 11780 |
| Lanes | Peak Hour Volume Both Directions | | | | |
| 4 | 2230 | 3820 | 5230 | 6260 | 7140 |
| 6 | 3320 | 5730 | 7780 | 9390 | 10700 |
| 8 | 4500 | 7550 | 10410 | 12500 | 14290 |
| 10 | 5600 | 9460 | 12960 | 15620 | 17850 |
| 12 | 6690 | 11370 | 15600 | 18750 | 21410 |
| Lanes | Annual Average Daily Traffic | | | | |
| 4 | 24800 | 42500 | 58100 | 69500 | 79300 |
| 6 | 36900 | 63700 | 86400 | 104300 | 118900 |
| 8 | 50000 | 83900 | 115700 | 138800 | 158700 |
| 10 | 62200 | 105100 | 144000 | 173600 | 198300 |
| 12 | 74300 | 126300 | 173300 | 208300 | 237900 |



Enlace del Acceso Norte con la V-21 al sur de su cruce con la CV-32

Hipótesis 2

FREEPLAN 2012 Conceptual Planning Analysis

Project Information

| | | | | | |
|----------------------|--------------------|-----------------------|---------------------|---------------------|-------------------|
| Analyst | | Freeway Name | V-21 | Study Period | Standard K |
| Date Prepared | 28/4/2020 11:33:59 | From | Cruce CV-32 | Program | FREEPLAN 2012 |
| Agency | | To | Enlace Acceso Norte | Version Date | 12/12/2012 |
| Area Type | Large Urbanized | Peak Direction | Southbound | | |
| File Name | | | | | |
| User Notes | Año 2030 | | | | |

Freeway Data

| | | | | | |
|-------------|--------|---|------|--------------------------------|------|
| AADT | 102539 | Freeway Input Volume | 5076 | Local Adjustment Factor | 1,00 |
| K | 0,09 | PHF | 0,9 | Ramp Metering Exists | No |
| D | 0,55 | Pecent Trucks Entering First Segment | 5,57 | | |

Segment Data

| Seg # | From | To | Input Type | Length (ft) | Hourly Volume (veh/h) | # Lanes | Posted Speed (mi/h) | Free-Flow Speed (mi/h) | Terrain |
|-------|------|----|---------------|-------------|-----------------------|---------|---------------------|------------------------|---------|
| 1 | | | Basic Segment | 72179 | 5076 | 3 | 65 | 70 | Level |

Time Period Independent Weaving Segment Data

| Seg # | Configuration | Short Length (ft) | # Weaving Lanes | Min. Lane Changes Freeway-Ramp | Min. Lane Changes Ramp-Freeway | Min. Lane Changes Ramp-Ramp |
|-------|---------------|-------------------|-----------------|--------------------------------|--------------------------------|-----------------------------|
| | | | | | | |

Ramp Descriptions

| Segment | Type | On-Ramp | | | | | Off-Ramp | | | | |
|---------|------|-----------------------|-----|-------|----------------------|-----|-----------------------|-----|-------|----------------------|-----|
| | | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS |
| | | | | | | | | | | | |

Toll Plaza Input Data

| Segment | Configuration | Number of Manual Lanes | Number of Coin Machine Lanes | Number of ETC-Only Lanes | | |
|----------------------------|----------------------------------|------------------------------|---------------------------------|-------------------------------|----------------------------|---------------------------|
| Pct. Manual Payment | Pct. Coin Machine Payment | Pct. ETC-Only Payment | Manual Avg. Service Time | Coin Avg. Service Time | ETC Free-Flow Speed | Prop. Trad. Demand |

Segment Results and LOS

| Seg # | From | To | Analysis Type | Analysis Volume (pc/h) | Capacity (pc/h) | v/c Ratio | Avg. Speed (mi/h) | Density (pc/h/ln) | LOS | Sig Impact | |
|-----------------------|----------------|------------------|---------------|------------------------|-----------------|-------------------|-------------------|-------------------|-------------|------------|----------|
| 1 | | | Basic Segment | 5797 | 7200 | 0,81 | 63,8 | 30,3 | D | N/A | |
| Freeway Length | 13,6703 | FFS Delay | 68,6 | Threshold Delay | 0,0 | Avg. Speed | 63,8 | Density | 30,3 | LOS | D |

Service Volumes

Note: The maximum normally acceptable directional service volume for LOS E in Florida for this facility type and area type is 2100 veh/h/ln.

| | A | B | C | D | E |
|--------------|---|--------|--------|--------|--------|
| Lanes | Hourly Volume In Peak Direction | | | | |
| 4 | 1220 | 2100 | 2880 | 3440 | 3920 |
| 6 | 1820 | 3160 | 4280 | 5160 | 5880 |
| 8 | 2480 | 4160 | 5720 | 6880 | 7840 |
| 10 | 3080 | 5200 | 7120 | 8600 | 9800 |
| 12 | 3680 | 6260 | 8580 | 10320 | 11760 |
| Lanes | Peak Hour Volume Both Directions | | | | |
| 4 | 2230 | 3820 | 5230 | 6240 | 7140 |
| 6 | 3320 | 5730 | 7780 | 9370 | 10700 |
| 8 | 4500 | 7550 | 10410 | 12500 | 14270 |
| 10 | 5600 | 9460 | 12960 | 15620 | 17830 |
| 12 | 6690 | 11370 | 15600 | 18750 | 21400 |
| Lanes | Annual Average Daily Traffic | | | | |
| 4 | 24800 | 42500 | 58100 | 69300 | 79300 |
| 6 | 36900 | 63700 | 86400 | 104100 | 118900 |
| 8 | 50000 | 83900 | 115700 | 138800 | 158500 |
| 10 | 62200 | 105100 | 144000 | 173600 | 198100 |
| 12 | 74300 | 126300 | 173300 | 208300 | 237700 |

FREEPLAN 2012 Conceptual Planning Analysis

Project Information

| | | | | | |
|----------------------|--------------------|-----------------------|------------------------|---------------------|-------------------|
| Analyst | | Freeway Name | V-21 | Study Period | Standard K |
| Date Prepared | 28/4/2020 11:33:59 | From | Cruce CV-32 | Program | FREEPLAN 2012 |
| Agency | | To | Enlace Acceso Norte | Version Date | 12/12/2012 |
| Area Type | Large Urbanized | Peak Direction | Southbound | | |
| File Name | | | | | |
| User Notes | Año 2040 | | | | |

Freeway Data

| | | | | | |
|-------------|--------|---|------|--------------------------------|------|
| AADT | 131172 | Freeway Input Volume | 6493 | Local Adjustment Factor | 1,00 |
| K | 0,09 | PHF | 0,9 | Ramp Metering Exists | No |
| D | 0,55 | Pecent Trucks Entering First Segment | 5,51 | | |

Segment Data

| Seg # | From | To | Input Type | Length (ft) | Hourly Volume (veh/h) | # Lanes | Posted Speed (mi/h) | Free-Flow Speed (mi/h) | Terrain |
|-------|------|----|---------------|-------------|-----------------------|---------|---------------------|------------------------|---------|
| 1 | | | Basic Segment | 72179 | 6493 | 3 | 65 | 70 | Level |

Time Period Independent Weaving Segment Data

| Seg # | Configuration | Short Length (ft) | # Weaving Lanes | Min. Lane Changes Freeway-Ramp | Min. Lane Changes Ramp-Freeway | Min. Lane Changes Ramp-Ramp |
|-------|---------------|-------------------|-----------------|--------------------------------|--------------------------------|-----------------------------|
| | | | | | | |

Ramp Descriptions

| Segment | Type | On-Ramp | | | | | Off-Ramp | | | | |
|---------|------|-----------------------|-----|-------|----------------------|-----|-----------------------|-----|-------|----------------------|-----|
| | | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS |
| | | | | | | | | | | | |

Toll Plaza Input Data

| Segment | Configuration | Number of Manual Lanes | Number of Coin Machine Lanes | Number of ETC-Only Lanes | | |
|----------------------------|----------------------------------|------------------------------|---------------------------------|-------------------------------|----------------------------|---------------------------|
| Pct. Manual Payment | Pct. Coin Machine Payment | Pct. ETC-Only Payment | Manual Avg. Service Time | Coin Avg. Service Time | ETC Free-Flow Speed | Prop. Trad. Demand |

Segment Results and LOS

| Seg # | From | To | Analysis Type | Analysis Volume (pc/h) | Capacity (pc/h) | v/c Ratio | Avg. Speed (mi/h) | Density (pc/h/ln) | LOS | Sig Impact | |
|-----------------------|----------------|------------------|---------------|------------------------|-----------------|-------------------|-------------------|-------------------|-----------|------------|----------|
| 1 | | | Basic Segment | 7413 | 7200 | 1,03 | ## | ## | F | N/A | |
| Freeway Length | 13,6703 | FFS Delay | ## | Threshold Delay | ## | Avg. Speed | ## | Density | ## | LOS | F |

Service Volumes

Note: The maximum normally acceptable directional service volume for LOS E in Florida for this facility type and area type is 2100 veh/h/ln.

| | A | B | C | D | E |
|--------------|---|--------|--------|--------|--------|
| Lanes | Hourly Volume In Peak Direction | | | | |
| 4 | 1220 | 2100 | 2880 | 3440 | 3920 |
| 6 | 1820 | 3160 | 4280 | 5160 | 5880 |
| 8 | 2480 | 4160 | 5720 | 6880 | 7840 |
| 10 | 3080 | 5200 | 7120 | 8600 | 9820 |
| 12 | 3680 | 6260 | 8580 | 10320 | 11780 |
| Lanes | Peak Hour Volume Both Directions | | | | |
| 4 | 2230 | 3820 | 5230 | 6260 | 7140 |
| 6 | 3320 | 5730 | 7780 | 9370 | 10700 |
| 8 | 4500 | 7550 | 10410 | 12500 | 14270 |
| 10 | 5600 | 9460 | 12960 | 15620 | 17850 |
| 12 | 6690 | 11370 | 15600 | 18750 | 21410 |
| Lanes | Annual Average Daily Traffic | | | | |
| 4 | 24800 | 42500 | 58100 | 69500 | 79300 |
| 6 | 36900 | 63700 | 86400 | 104100 | 118900 |
| 8 | 50000 | 83900 | 115700 | 138800 | 158500 |
| 10 | 62200 | 105100 | 144000 | 173600 | 198300 |
| 12 | 74300 | 126300 | 173300 | 208300 | 237900 |



Enlace del Acceso Norte con la V-21 al sur de su cruce con la CV-32

Hipótesis 3

FREEPLAN 2012 Conceptual Planning Analysis

Project Information

| | | | | | |
|----------------------|--------------------|-----------------------|------------------------|---------------------|-------------------|
| Analyst | | Freeway Name | V-21 | Study Period | Standard K |
| Date Prepared | 28/4/2020 11:33:59 | From | Cruce CV-32 | Program | FREEPLAN 2012 |
| Agency | | To | Enlace Acceso Norte | Version Date | 12/12/2012 |
| Area Type | Large Urbanized | Peak Direction | Southbound | | |
| File Name | | | | | |
| User Notes | Año 2030 | | | | |

Freeway Data

| | | | | | |
|-------------|--------|--|------|--------------------------------|------|
| AADT | 102539 | Freeway Input Volume | 5076 | Local Adjustment Factor | 1,00 |
| K | 0,09 | PHF | 0,9 | Ramp Metering Exists | No |
| D | 0,55 | Percent Trucks Entering First Segment | 5,47 | | |

Segment Data

| Seg # | From | To | Input Type | Length (ft) | Hourly Volume (veh/h) | # Lanes | Posted Speed (mi/h) | Free-Flow Speed (mi/h) | Terrain |
|-------|------|----|---------------|-------------|-----------------------|---------|---------------------|------------------------|---------|
| 1 | | | Basic Segment | 72179 | 5076 | 3 | 65 | 70 | Level |

Time Period Independent Weaving Segment Data

| Seg # | Configuration | Short Length (ft) | # Weaving Lanes | Min. Lane Changes Freeway-Ramp | Min. Lane Changes Ramp-Freeway | Min. Lane Changes Ramp-Ramp |
|-------|---------------|-------------------|-----------------|--------------------------------|--------------------------------|-----------------------------|
| | | | | | | |

Ramp Descriptions

| Segment | Type | On-Ramp | | | | | Off-Ramp | | | | |
|---------|------|-----------------------|-----|-------|----------------------|-----|-----------------------|-----|-------|----------------------|-----|
| | | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS |
| | | | | | | | | | | | |

Toll Plaza Input Data

| Segment | Configuration | Number of Manual Lanes | Number of Coin Machine Lanes | Number of ETC-Only Lanes | | |
|---------------------|---------------------------|------------------------|------------------------------|--------------------------|---------------------|--------------------|
| Pct. Manual Payment | Pct. Coin Machine Payment | Pct. ETC-Only Payment | Manual Avg. Service Time | Coin Avg. Service Time | ETC Free-Flow Speed | Prop. Trad. Demand |
| | | | | | | |

Segment Results and LOS

| Seg # | From | To | Analysis Type | Analysis Volume (pc/h) | Capacity (pc/h) | v/c Ratio | Avg. Speed (mi/h) | Density (pc/h/ln) | LOS | Sig Impact | |
|-----------------------|----------------|------------------|---------------|------------------------|-----------------|-------------------|-------------------|-------------------|-------------|------------|----------|
| 1 | | | Basic Segment | 5794 | 7200 | 0,80 | 63,8 | 30,3 | D | N/A | |
| Freeway Length | 13,6703 | FFS Delay | 68,4 | Threshold Delay | 0,0 | Avg. Speed | 63,8 | Density | 30,3 | LOS | D |

Service Volumes

Note: The maximum normally acceptable directional service volume for LOS E in Florida for this facility type and area type is 2100 veh/h/ln.

| | A | B | C | D | E |
|--------------|---|--------|--------|--------|--------|
| Lanes | Hourly Volume In Peak Direction | | | | |
| 4 | 1220 | 2100 | 2880 | 3440 | 3920 |
| 6 | 1820 | 3160 | 4280 | 5160 | 5880 |
| 8 | 2480 | 4160 | 5720 | 6880 | 7860 |
| 10 | 3080 | 5200 | 7120 | 8600 | 9820 |
| 12 | 3680 | 6260 | 8580 | 10320 | 11780 |
| Lanes | Peak Hour Volume Both Directions | | | | |
| 4 | 2230 | 3820 | 5230 | 6260 | 7140 |
| 6 | 3320 | 5730 | 7780 | 9370 | 10700 |
| 8 | 4500 | 7550 | 10410 | 12500 | 14290 |
| 10 | 5600 | 9460 | 12960 | 15620 | 17850 |
| 12 | 6690 | 11370 | 15600 | 18750 | 21410 |
| Lanes | Annual Average Daily Traffic | | | | |
| 4 | 24800 | 42500 | 58100 | 69500 | 79300 |
| 6 | 36900 | 63700 | 86400 | 104100 | 118900 |
| 8 | 50000 | 83900 | 115700 | 138800 | 158700 |
| 10 | 62200 | 105100 | 144000 | 173600 | 198300 |
| 12 | 74300 | 126300 | 173300 | 208300 | 237900 |

FREEPLAN 2012 Conceptual Planning Analysis

Project Information

| | | | | | |
|----------------------|--------------------|-----------------------|---------------------|---------------------|-------------------|
| Analyst | | Freeway Name | V-21 | Study Period | Standard K |
| Date Prepared | 28/4/2020 11:33:59 | From | Cruce CV-32 | Program | FREEPLAN 2012 |
| Agency | | To | Enlace Acceso Norte | Version Date | 12/12/2012 |
| Area Type | Large Urbanized | Peak Direction | Southbound | | |
| File Name | | | | | |
| User Notes | Año 2040 | | | | |

Freeway Data

| | | | | | |
|-------------|--------|--|------|--------------------------------|------|
| AADT | 130896 | Freeway Input Volume | 6479 | Local Adjustment Factor | 1,00 |
| K | 0,09 | PHF | 0,9 | Ramp Metering Exists | No |
| D | 0,55 | Percent Trucks Entering First Segment | 5,2 | | |

Segment Data

| Seg # | From | To | Input Type | Length (ft) | Hourly Volume (veh/h) | # Lanes | Posted Speed (mi/h) | Free-Flow Speed (mi/h) | Terrain |
|-------|------|----|---------------|-------------|-----------------------|---------|---------------------|------------------------|---------|
| 1 | | | Basic Segment | 72179 | 6479 | 3 | 65 | 70 | Level |

Time Period Independent Weaving Segment Data

| Seg # | Configuration | Short Length (ft) | # Weaving Lanes | Min. Lane Changes Freeway-Ramp | Min. Lane Changes Ramp-Freeway | Min. Lane Changes Ramp-Ramp |
|-------|---------------|-------------------|-----------------|--------------------------------|--------------------------------|-----------------------------|
| | | | | | | |

Ramp Descriptions

| Segment | Type | On-Ramp | | | | | Off-Ramp | | | | |
|---------|------|-----------------------|-----|-------|----------------------|-----|-----------------------|-----|-------|----------------------|-----|
| | | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS |
| | | | | | | | | | | | |

Toll Plaza Input Data

| Segment | Configuration | Number of Manual Lanes | Number of Coin Machine Lanes | Number of ETC-Only Lanes | | |
|---------------------|---------------------------|------------------------|------------------------------|--------------------------|---------------------|--------------------|
| Pct. Manual Payment | Pct. Coin Machine Payment | Pct. ETC-Only Payment | Manual Avg. Service Time | Coin Avg. Service Time | ETC Free-Flow Speed | Prop. Trad. Demand |
| | | | | | | |

Segment Results and LOS

| Seg # | From | To | Analysis Type | Analysis Volume (pc/h) | Capacity (pc/h) | v/c Ratio | Avg. Speed (mi/h) | Density (pc/h/ln) | LOS | Sig Impact | |
|-----------------------|----------------|------------------|---------------|------------------------|-----------------|-------------------|-------------------|-------------------|-----------|------------|----------|
| 1 | | | Basic Segment | 7386 | 7200 | 1,03 | ## | ## | F | N/A | |
| Freeway Length | 13,6703 | FFS Delay | ## | Threshold Delay | ## | Avg. Speed | ## | Density | ## | LOS | F |

Service Volumes

Note: The maximum normally acceptable directional service volume for LOS E in Florida for this facility type and area type is 2100 veh/h/ln.

| | A | B | C | D | E |
|--------------|---|--------|--------|--------|--------|
| Lanes | Hourly Volume In Peak Direction | | | | |
| 4 | 1220 | 2100 | 2880 | 3440 | 3940 |
| 6 | 1820 | 3160 | 4280 | 5160 | 5900 |
| 8 | 2480 | 4200 | 5720 | 6880 | 7860 |
| 10 | 3080 | 5200 | 7120 | 8600 | 9820 |
| 12 | 3680 | 6260 | 8580 | 10320 | 11800 |
| Lanes | Peak Hour Volume Both Directions | | | | |
| 4 | 2230 | 3820 | 5230 | 6260 | 7160 |
| 6 | 3320 | 5730 | 7780 | 9390 | 10720 |
| 8 | 4500 | 7640 | 10410 | 12510 | 14300 |
| 10 | 5600 | 9460 | 12960 | 15640 | 17870 |
| 12 | 6690 | 11370 | 15600 | 18770 | 21450 |
| Lanes | Annual Average Daily Traffic | | | | |
| 4 | 24800 | 42500 | 58100 | 69500 | 79500 |
| 6 | 36900 | 63700 | 86400 | 104300 | 119100 |
| 8 | 50000 | 84900 | 115700 | 139000 | 158900 |
| 10 | 62200 | 105100 | 144000 | 173800 | 198500 |
| 12 | 74300 | 126300 | 173300 | 208500 | 238300 |



Enlace del Acceso Norte con la V-21 al norte de su cruce con la CV-32

Hipótesis 1

FREEPLAN 2012 Conceptual Planning Analysis

Project Information

| | | | | | | |
|----------------------|--------------------|-----------------------|---------------------|--|---------------------|-------------------|
| Analyst | | Freeway Name | V-21 | | Study Period | Standard K |
| Date Prepared | 28/4/2020 12:58:03 | From | Enlace CV-32 | | Program | FREEPLAN 2012 |
| Agency | | To | Enlace Acceso Norte | | Version Date | 12/12/2012 |
| Area Type | Large Urbanized | Peak Direction | Southbound | | | |
| File Name | | | | | | |
| User Notes | | Año 2030 | | | | |

Freeway Data

| | | | | | |
|-------------|-------|---|------|--------------------------------|------|
| AADT | 61930 | Freeway Input Volume | 3066 | Local Adjustment Factor | 1,00 |
| K | 0,09 | PHF | 0,9 | Ramp Metering Exists | No |
| D | 0,55 | Pecent Trucks Entering First Segment | 8,33 | | |

Segment Data

| Seg # | From | To | Input Type | Length (ft) | Hourly Volume (veh/h) | # Lanes | Posted Speed (mi/h) | Free-Flow Speed (mi/h) | Terrain |
|-------|------|----|---------------|-------------|-----------------------|---------|---------------------|------------------------|---------|
| 1 | | | Basic Segment | 65617 | 3066 | 3 | 65 | 70 | Level |

Time Period Independent Weaving Segment Data

| Seg # | Configuration | Short Length (ft) | # Weaving Lanes | Min. Lane Changes Freeway-Ramp | Min. Lane Changes Ramp-Freeway | Min. Lane Changes Ramp-Ramp |
|-------|---------------|-------------------|-----------------|--------------------------------|--------------------------------|-----------------------------|
| | | | | | | |

Ramp Descriptions

| Segment | Type | On-Ramp | | | | | Off-Ramp | | | | |
|---------|------|-----------------------|-----|-------|----------------------|-----|-----------------------|-----|-------|----------------------|-----|
| | | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS |
| | | | | | | | | | | | |

Toll Plaza Input Data

| Segment | Configuration | Number of Manual Lanes | Number of Coin Machine Lanes | Number of ETC-Only Lanes | | |
|---------------------|---------------------------|------------------------|------------------------------|--------------------------|---------------------|--------------------|
| Pct. Manual Payment | Pct. Coin Machine Payment | Pct. ETC-Only Payment | Manual Avg. Service Time | Coin Avg. Service Time | ETC Free-Flow Speed | Prop. Trad. Demand |
| | | | | | | |

Segment Results and LOS

| Seg # | From | To | Analysis Type | Analysis Volume (pc/h) | Capacity (pc/h) | v/c Ratio | Avg. Speed (mi/h) | Density (pc/h/ln) | LOS | Sig Impact | |
|-----------------------|----------------|------------------|---------------|------------------------|-----------------|-------------------|-------------------|-------------------|-------------|------------|----------|
| 1 | | | Basic Segment | 3549 | 7200 | 0,49 | 70,0 | 16,9 | B | N/A | |
| Freeway Length | 12,4275 | FFS Delay | 0,0 | Threshold Delay | 0,0 | Avg. Speed | 70,0 | Density | 16,9 | LOS | B |

Service Volumes

Note: The maximum normally acceptable directional service volume for LOS E in Florida for this facility type and area type is 2100 veh/h/ln.

| | A | B | C | D | E |
|--------------|---|--------|--------|--------|--------|
| Lanes | Hourly Volume In Peak Direction | | | | |
| 4 | 1220 | 2060 | 2820 | 3400 | 3880 |
| 6 | 1820 | 3100 | 4220 | 5080 | 5800 |
| 8 | 2420 | 4100 | 5620 | 6780 | 7740 |
| 10 | 3020 | 5160 | 7020 | 8480 | 9680 |
| 12 | 3620 | 6160 | 8420 | 10180 | 11620 |
| Lanes | Peak Hour Volume Both Directions | | | | |
| 4 | 2230 | 3730 | 5140 | 6170 | 7050 |
| 6 | 3320 | 5640 | 7690 | 9240 | 10560 |
| 8 | 4410 | 7460 | 10230 | 12330 | 14090 |
| 10 | 5500 | 9370 | 12780 | 15400 | 17600 |
| 12 | 6600 | 11190 | 15320 | 18500 | 21120 |
| Lanes | Annual Average Daily Traffic | | | | |
| 4 | 24800 | 41500 | 57100 | 68500 | 78300 |
| 6 | 36900 | 62700 | 85400 | 102700 | 117300 |
| 8 | 49000 | 82900 | 113700 | 137000 | 156500 |
| 10 | 61200 | 104100 | 142000 | 171200 | 195500 |
| 12 | 73300 | 124300 | 170300 | 205500 | 234700 |

FREEPLAN 2012 Conceptual Planning Analysis

Project Information

| | | | | | |
|----------------------|--------------------|-----------------------|---------------------|---------------------|-------------------|
| Analyst | | Freeway Name | V-21 | Study Period | Standard K |
| Date Prepared | 28/4/2020 12:58:03 | From | Enlace CV-32 | Program | FREEPLAN 2012 |
| Agency | | To | Enlace Acceso Norte | Version Date | 12/12/2012 |
| Area Type | Large Urbanized | Peak Direction | Southbound | | |
| File Name | | | | | |
| User Notes | Año 2040 | | | | |

Freeway Data

| | | | | | |
|-------------|-------|--|------|--------------------------------|------|
| AADT | 79127 | Freeway Input Volume | 3917 | Local Adjustment Factor | 1,00 |
| K | 0,09 | PHF | 0,9 | Ramp Metering Exists | No |
| D | 0,55 | Percent Trucks Entering First Segment | 8,16 | | |

Segment Data

| Seg # | From | To | Input Type | Length (ft) | Hourly Volume (veh/h) | # Lanes | Posted Speed (mi/h) | Free-Flow Speed (mi/h) | Terrain |
|-------|------|----|---------------|-------------|-----------------------|---------|---------------------|------------------------|---------|
| 1 | | | Basic Segment | 65617 | 3917 | 3 | 65 | 70 | Level |

Time Period Independent Weaving Segment Data

| Seg # | Configuration | Short Length (ft) | # Weaving Lanes | Min. Lane Changes Freeway-Ramp | Min. Lane Changes Ramp-Freeway | Min. Lane Changes Ramp-Ramp |
|-------|---------------|-------------------|-----------------|--------------------------------|--------------------------------|-----------------------------|
| | | | | | | |

Ramp Descriptions

| Segment | Type | On-Ramp | | | | | Off-Ramp | | | | |
|---------|------|-----------------------|-----|-------|----------------------|-----|-----------------------|-----|-------|----------------------|-----|
| | | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS |
| | | | | | | | | | | | |

Toll Plaza Input Data

| Segment | Configuration | Number of Manual Lanes | Number of Coin Machine Lanes | Number of ETC-Only Lanes |
|---------|---------------|------------------------|------------------------------|--------------------------|
| | | | | |

| Pct. Manual Payment | Pct. Coin Machine Payment | Pct. ETC-Only Payment | Manual Avg. Service Time | Coin Avg. Service Time | ETC Free-Flow Speed | Prop. Trad. Demand |
|---------------------|---------------------------|-----------------------|--------------------------|------------------------|---------------------|--------------------|
|---------------------|---------------------------|-----------------------|--------------------------|------------------------|---------------------|--------------------|

Segment Results and LOS

| Seg | From | To | Analysis | Analysis Volume | Capacity | v/c Ratio | Avg. Speed | Density | LOS | Sig | |
|-----------------------|----------------|------------------|---------------|------------------------|------------|-------------------|-------------|----------------|-------------|------------|----------|
| # | | | Type | (pc/h) | (pc/h) | | (mi/h) | (pc/h/ln) | | Impact | |
| 1 | | | Basic Segment | 4530 | 7200 | 0,63 | 68,9 | 21,9 | C | N/A | |
| Freeway Length | 12,4275 | FFS Delay | 10,3 | Threshold Delay | 0,0 | Avg. Speed | 68,9 | Density | 21,9 | LOS | C |

Service Volumes

Note: The maximum normally acceptable directional service volume for LOS E in Florida for this facility type and area type is 2100 veh/h/ln.

| | A | B | C | D | E |
|--------------|---|--------|--------|--------|--------|
| Lanes | Hourly Volume In Peak Direction | | | | |
| 4 | 1220 | 2060 | 2820 | 3400 | 3880 |
| 6 | 1820 | 3100 | 4220 | 5100 | 5820 |
| 8 | 2420 | 4100 | 5620 | 6780 | 7740 |
| 10 | 3020 | 5160 | 7020 | 8480 | 9680 |
| 12 | 3620 | 6160 | 8480 | 10180 | 11620 |
| Lanes | Peak Hour Volume Both Directions | | | | |
| 4 | 2230 | 3730 | 5140 | 6170 | 7050 |
| 6 | 3320 | 5640 | 7690 | 9260 | 10580 |
| 8 | 4410 | 7460 | 10230 | 12330 | 14090 |
| 10 | 5500 | 9370 | 12780 | 15420 | 17610 |
| 12 | 6600 | 11190 | 15410 | 18510 | 21140 |
| Lanes | Annual Average Daily Traffic | | | | |
| 4 | 24800 | 41500 | 57100 | 68500 | 78300 |
| 6 | 36900 | 62700 | 85400 | 102900 | 117500 |
| 8 | 49000 | 82900 | 113700 | 137000 | 156500 |
| 10 | 61200 | 104100 | 142000 | 171400 | 195700 |
| 12 | 73300 | 124300 | 171300 | 205700 | 234900 |

FREEPLAN 2012 Conceptual Planning Analysis

Project Information

| | | | | | |
|----------------------|--------------------|-----------------------|------------------------|---------------------|-------------------|
| Analyst | | Freeway Name | V-21 | Study Period | Standard K |
| Date Prepared | 28/4/2020 11:33:59 | From | Puçol | Program | FREEPLAN 2012 |
| Agency | | To | Enlace Acceso Norte | Version Date | 12/12/2012 |
| Area Type | Large Urbanized | Peak Direction | Southbound | | |
| File Name | | | | | |
| User Notes | Año 2050 | | | | |

Freeway Data

| | | | | | |
|-------------|--------|--|------|--------------------------------|------|
| AADT | 100886 | Freeway Input Volume | 4994 | Local Adjustment Factor | 1,00 |
| K | 0,09 | PHF | 0,9 | Ramp Metering Exists | No |
| D | 0,55 | Percent Trucks Entering First Segment | 7,8 | | |

Segment Data

| Seg # | From | To | Input Type | Length (ft) | Hourly Volume (veh/h) | # Lanes | Posted Speed (mi/h) | Free-Flow Speed (mi/h) | Terrain |
|-------|------|----|---------------|-------------|-----------------------|---------|---------------------|------------------------|---------|
| 1 | | | Basic Segment | 65617 | 4994 | 3 | 65 | 70 | Level |

Time Period Independent Weaving Segment Data

| Seg # | Configuration | Short Length (ft) | # Weaving Lanes | Min. Lane Changes Freeway-Ramp | Min. Lane Changes Ramp-Freeway | Min. Lane Changes Ramp-Ramp |
|-------|---------------|-------------------|-----------------|--------------------------------|--------------------------------|-----------------------------|
| | | | | | | |

Ramp Descriptions

| Segment | Type | On-Ramp | | | | | Off-Ramp | | | | |
|---------|------|-----------------------|-----|-------|----------------------|-----|-----------------------|-----|-------|----------------------|-----|
| | | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS |
| | | | | | | | | | | | |

Toll Plaza Input Data

| Segment | Configuration | Number of Manual Lanes | Number of Coin Machine Lanes | Number of ETC-Only Lanes | | |
|---------------------|---------------------------|------------------------|------------------------------|--------------------------|---------------------|--------------------|
| Pct. Manual Payment | Pct. Coin Machine Payment | Pct. ETC-Only Payment | Manual Avg. Service Time | Coin Avg. Service Time | ETC Free-Flow Speed | Prop. Trad. Demand |
| | | | | | | |

Segment Results and LOS

| Seg # | From | To | Analysis Type | Analysis Volume (pc/h) | Capacity (pc/h) | v/c Ratio | Avg. Speed (mi/h) | Density (pc/h/ln) | LOS | Sig Impact | |
|-----------------------|----------------|------------------|---------------|------------------------|-----------------|-------------------|-------------------|-------------------|-------------|------------|----------|
| 1 | | | Basic Segment | 5765 | 7200 | 0,80 | 64,0 | 30,0 | D | N/A | |
| Freeway Length | 12,4275 | FFS Delay | 60,4 | Threshold Delay | 0,0 | Avg. Speed | 64,0 | Density | 30,0 | LOS | D |

Service Volumes

Note: The maximum normally acceptable directional service volume for LOS E in Florida for this facility type and area type is 2100 veh/h/ln.

| | A | B | C | D | E |
|--------------|---|--------|--------|--------|--------|
| Lanes | Hourly Volume In Peak Direction | | | | |
| 4 | 1220 | 2060 | 2820 | 3400 | 3880 |
| 6 | 1820 | 3100 | 4220 | 5100 | 5820 |
| 8 | 2420 | 4100 | 5620 | 6800 | 7760 |
| 10 | 3020 | 5160 | 7080 | 8500 | 9700 |
| 12 | 3620 | 6200 | 8480 | 10200 | 11640 |
| Lanes | Peak Hour Volume Both Directions | | | | |
| 4 | 2230 | 3730 | 5140 | 6190 | 7070 |
| 6 | 3320 | 5640 | 7690 | 9280 | 10600 |
| 8 | 4410 | 7460 | 10230 | 12370 | 14120 |
| 10 | 5500 | 9370 | 12870 | 15460 | 17650 |
| 12 | 6600 | 11280 | 15410 | 18530 | 21180 |
| Lanes | Annual Average Daily Traffic | | | | |
| 4 | 24800 | 41500 | 57100 | 68700 | 78500 |
| 6 | 36900 | 62700 | 85400 | 103100 | 117700 |
| 8 | 49000 | 82900 | 113700 | 137400 | 156900 |
| 10 | 61200 | 104100 | 143000 | 171800 | 196100 |
| 12 | 73300 | 125300 | 171300 | 205900 | 235300 |



Enlace del Acceso Norte con la V-21 al norte de su cruce con la CV-32

Hipótesis 2

FREEPLAN 2012 Conceptual Planning Analysis

Project Information

| | | | | | |
|----------------------|--------------------|-----------------------|---------------------|---------------------|-------------------|
| Analyst | | Freeway Name | V-21 | Study Period | Standard K |
| Date Prepared | 28/4/2020 12:58:03 | From | Enlace CV-32 | Program | FREEPLAN 2012 |
| Agency | | To | Enlace Acceso Norte | Version Date | 12/12/2012 |
| Area Type | Large Urbanized | Peak Direction | Southbound | | |
| File Name | | | | | |
| User Notes | Año 2030 | | | | |

Freeway Data

| | | | | | |
|-------------|-------|---|------|--------------------------------|------|
| AADT | 61622 | Freeway Input Volume | 3050 | Local Adjustment Factor | 1,00 |
| K | 0,09 | PHF | 0,9 | Ramp Metering Exists | No |
| D | 0,55 | Pecent Trucks Entering First Segment | 7,88 | | |

Segment Data

| Seg # | From | To | Input Type | Length (ft) | Hourly Volume (veh/h) | # Lanes | Posted Speed (mi/h) | Free-Flow Speed (mi/h) | Terrain |
|-------|------|----|---------------|-------------|-----------------------|---------|---------------------|------------------------|---------|
| 1 | | | Basic Segment | 65617 | 3050 | 3 | 65 | 70 | Level |

Time Period Independent Weaving Segment Data

| Seg # | Configuration | Short Length (ft) | # Weaving Lanes | Min. Lane Changes Freeway-Ramp | Min. Lane Changes Ramp-Freeway | Min. Lane Changes Ramp-Ramp |
|-------|---------------|-------------------|-----------------|--------------------------------|--------------------------------|-----------------------------|
| | | | | | | |

Ramp Descriptions

| Segment | Type | On-Ramp | | | | | Off-Ramp | | | | |
|---------|------|-----------------------|-----|-------|----------------------|-----|-----------------------|-----|-------|----------------------|-----|
| | | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS |
| | | | | | | | | | | | |

Toll Plaza Input Data

| Segment | Configuration | Number of Manual Lanes | Number of Coin Machine Lanes | Number of ETC-Only Lanes | | |
|---------------------|---------------------------|------------------------|------------------------------|--------------------------|---------------------|--------------------|
| Pct. Manual Payment | Pct. Coin Machine Payment | Pct. ETC-Only Payment | Manual Avg. Service Time | Coin Avg. Service Time | ETC Free-Flow Speed | Prop. Trad. Demand |
| | | | | | | |

Segment Results and LOS

| Seg | From | To | Analysis | Analysis Volume | Capacity | v/c Ratio | Avg. Speed | Density | LOS | Sig | | |
|-----|-----------------------|----------------|------------------|-----------------|------------------------|------------|-------------------|-------------|----------------|-------------|------------|----------|
| # | | Type | (pc/h) | (pc/h) | | (mi/h) | (pc/h/ln) | | Impact | | | |
| 1 | | | Basic Segment | 3523 | 7200 | 0,49 | 70,0 | 16,8 | B | N/A | | |
| | Freeway Length | 12,4275 | FFS Delay | 0,0 | Threshold Delay | 0,0 | Avg. Speed | 70,0 | Density | 16,8 | LOS | B |

Service Volumes

Note: The maximum normally acceptable directional service volume for LOS E in Florida for this facility type and area type is 2100 veh/h/ln.

| | A | B | C | D | E |
|--------------|---|--------|--------|--------|--------|
| Lanes | Hourly Volume In Peak Direction | | | | |
| 4 | 1220 | 2060 | 2820 | 3400 | 3880 |
| 6 | 1820 | 3100 | 4220 | 5100 | 5820 |
| 8 | 2420 | 4100 | 5620 | 6800 | 7760 |
| 10 | 3020 | 5160 | 7080 | 8500 | 9700 |
| 12 | 3620 | 6200 | 8480 | 10200 | 11640 |
| Lanes | Peak Hour Volume Both Directions | | | | |
| 4 | 2230 | 3730 | 5140 | 6190 | 7050 |
| 6 | 3320 | 5640 | 7690 | 9280 | 10580 |
| 8 | 4410 | 7460 | 10230 | 12350 | 14100 |
| 10 | 5500 | 9370 | 12870 | 15440 | 17630 |
| 12 | 6600 | 11280 | 15410 | 18530 | 21160 |
| Lanes | Annual Average Daily Traffic | | | | |
| 4 | 24800 | 41500 | 57100 | 68700 | 78300 |
| 6 | 36900 | 62700 | 85400 | 103100 | 117500 |
| 8 | 49000 | 82900 | 113700 | 137200 | 156700 |
| 10 | 61200 | 104100 | 143000 | 171600 | 195900 |
| 12 | 73300 | 125300 | 171300 | 205900 | 235100 |

FREEPLAN 2012 Conceptual Planning Analysis

Project Information

| | | | | | |
|----------------------|--------------------|-----------------------|---------------------|---------------------|---------------|
| Analyst | | Freeway Name | V-21 | Study Period | Standard K |
| Date Prepared | 28/4/2020 12:58:03 | From | Enlace CV-32 | Program | FREEPLAN 2012 |
| Agency | | To | Enlace Acceso Norte | Version Date | 12/12/2012 |
| Area Type | Large Urbanized | Peak Direction | Southbound | | |
| File Name | | | | | |
| User Notes | Año 2040 | | | | |

Freeway Data

| | | | | | |
|-------------|-------|---|------|--------------------------------|------|
| AADT | 78795 | Freeway Input Volume | 3900 | Local Adjustment Factor | 1,00 |
| K | 0,09 | PHF | 0,9 | Ramp Metering Exists | No |
| D | 0,55 | Pecent Trucks Entering First Segment | 7,78 | | |

Segment Data

| Seg # | From | To | Input Type | Length (ft) | Hourly Volume (veh/h) | # Lanes | Posted Speed (mi/h) | Free-Flow Speed (mi/h) | Terrain |
|-------|------|----|---------------|-------------|-----------------------|---------|---------------------|------------------------|---------|
| 1 | | | Basic Segment | 65617 | 3900 | 3 | 65 | 70 | Level |

Time Period Independent Weaving Segment Data

| Seg # | Configuration | Short Length (ft) | # Weaving Lanes | Min. Lane Changes Freeway-Ramp | Min. Lane Changes Ramp-Freeway | Min. Lane Changes Ramp-Ramp |
|-------|---------------|-------------------|-----------------|--------------------------------|--------------------------------|-----------------------------|
| | | | | | | |

Ramp Descriptions

| Segment | Type | On-Ramp | | | | | Off-Ramp | | | | |
|---------|------|-----------------------|-----|-------|----------------------|-----|-----------------------|-----|-------|----------------------|-----|
| | | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS |
| | | | | | | | | | | | |

Toll Plaza Input Data

| Segment | Configuration | Number of Manual Lanes | Number of Coin Machine Lanes | Number of ETC-Only Lanes | | |
|---------------------|---------------------------|------------------------|------------------------------|--------------------------|---------------------|--------------------|
| Pct. Manual Payment | Pct. Coin Machine Payment | Pct. ETC-Only Payment | Manual Avg. Service Time | Coin Avg. Service Time | ETC Free-Flow Speed | Prop. Trad. Demand |
| | | | | | | |

Segment Results and LOS

| Seg | From | To | Analysis | Analysis Volume | Capacity | v/c Ratio | Avg. Speed | Density | LOS | Sig | |
|-----------------------|----------------|------------------|---------------|------------------------|------------|-------------------|-------------|----------------|-------------|------------|----------|
| # | | | Type | (pc/h) | (pc/h) | | (mi/h) | (pc/h/ln) | | Impact | |
| 1 | | | Basic Segment | 4502 | 7200 | 0,63 | 69,0 | 21,8 | C | N/A | |
| Freeway Length | 12,4275 | FFS Delay | 9,7 | Threshold Delay | 0,0 | Avg. Speed | 69,0 | Density | 21,8 | LOS | C |

Service Volumes

Note: The maximum normally acceptable directional service volume for LOS E in Florida for this facility type and area type is 2100 veh/h/ln.

| | A | B | C | D | E |
|--------------|---|--------|--------|--------|--------|
| Lanes | Hourly Volume In Peak Direction | | | | |
| 4 | 1220 | 2060 | 2820 | 3400 | 3880 |
| 6 | 1820 | 3100 | 4220 | 5100 | 5820 |
| 8 | 2420 | 4100 | 5620 | 6800 | 7760 |
| 10 | 3020 | 5160 | 7080 | 8500 | 9700 |
| 12 | 3620 | 6200 | 8480 | 10200 | 11640 |
| Lanes | Peak Hour Volume Both Directions | | | | |
| 4 | 2230 | 3730 | 5140 | 6190 | 7070 |
| 6 | 3320 | 5640 | 7690 | 9280 | 10600 |
| 8 | 4410 | 7460 | 10230 | 12370 | 14120 |
| 10 | 5500 | 9370 | 12870 | 15460 | 17650 |
| 12 | 6600 | 11280 | 15410 | 18550 | 21180 |
| Lanes | Annual Average Daily Traffic | | | | |
| 4 | 24800 | 41500 | 57100 | 68700 | 78500 |
| 6 | 36900 | 62700 | 85400 | 103100 | 117700 |
| 8 | 49000 | 82900 | 113700 | 137400 | 156900 |
| 10 | 61200 | 104100 | 143000 | 171800 | 196100 |
| 12 | 73300 | 125300 | 171300 | 206100 | 235300 |

FREEPLAN 2012 Conceptual Planning Analysis

Project Information

| | | | | | |
|----------------------|--------------------|-----------------------|------------------------|---------------------|-------------------|
| Analyst | Màxim Lliso | Freeway Name | V-21 | Study Period | Standard K |
| Date Prepared | 24/4/2020 13:17:37 | From | X | Program | FREEPLAN 2012 |
| Agency | | To | Enlace Acceso Norte | Version Date | 12/12/2012 |
| Area Type | Large Urbanized | Peak Direction | Southbound | | |
| File Name | | | | | |
| User Notes | Año 2050 | | | | |

Freeway Data

| | | | | | |
|-------------|--------|---|------|--------------------------------|------|
| AADT | 100216 | Freeway Input Volume | 4961 | Local Adjustment Factor | 1,00 |
| K | 0,09 | PHF | 0,9 | Ramp Metering Exists | No |
| D | 0,55 | Pecent Trucks Entering First Segment | 7,18 | | |

Segment Data

| Seg # | From | To | Input Type | Length (ft) | Hourly Volume (veh/h) | # Lanes | Posted Speed (mi/h) | Free-Flow Speed (mi/h) | Terrain |
|-------|------|----|---------------|-------------|-----------------------|---------|---------------------|------------------------|---------|
| 1 | | | Basic Segment | 65617 | 4961 | 3 | 65 | 70 | Level |

Time Period Independent Weaving Segment Data

| Seg # | Configuration | Short Length (ft) | # Weaving Lanes | Min. Lane Changes Freeway-Ramp | Min. Lane Changes Ramp-Freeway | Min. Lane Changes Ramp-Ramp |
|-------|---------------|-------------------|-----------------|--------------------------------|--------------------------------|-----------------------------|
| | | | | | | |

Ramp Descriptions

| Segment | Type | On-Ramp | | | | | Off-Ramp | | | | |
|---------|------|-----------------------|-----|-------|----------------------|-----|-----------------------|-----|-------|----------------------|-----|
| | | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS |
| | | | | | | | | | | | |

Toll Plaza Input Data

| Segment | Configuration | Number of Manual Lanes | Number of Coin Machine Lanes | Number of ETC-Only Lanes | | |
|---------------------|---------------------------|------------------------|------------------------------|--------------------------|---------------------|--------------------|
| Pct. Manual Payment | Pct. Coin Machine Payment | Pct. ETC-Only Payment | Manual Avg. Service Time | Coin Avg. Service Time | ETC Free-Flow Speed | Prop. Trad. Demand |
| | | | | | | |

Segment Results and LOS

| Seg # | From | To | Analysis Type | Analysis Volume (pc/h) | Capacity (pc/h) | v/c Ratio | Avg. Speed (mi/h) | Density (pc/h/ln) | LOS | Sig Impact | |
|-----------------------|----------------|------------------|---------------|------------------------|-----------------|-------------------|-------------------|-------------------|-------------|------------|----------|
| 1 | | | Basic Segment | 5710 | 7200 | 0,79 | 64,3 | 29,6 | D | N/A | |
| Freeway Length | 12,4275 | FFS Delay | 57,1 | Threshold Delay | 0,0 | Avg. Speed | 64,3 | Density | 29,6 | LOS | D |

Service Volumes

Note: The maximum normally acceptable directional service volume for LOS E in Florida for this facility type and area type is 2100 veh/h/ln.

| | A | B | C | D | E |
|--------------|---|--------|--------|--------|--------|
| Lanes | Hourly Volume In Peak Direction | | | | |
| 4 | 1220 | 2060 | 2820 | 3420 | 3900 |
| 6 | 1820 | 3100 | 4220 | 5120 | 5840 |
| 8 | 2420 | 4160 | 5680 | 6820 | 7780 |
| 10 | 3020 | 5160 | 7080 | 8520 | 9740 |
| 12 | 3620 | 6200 | 8480 | 10240 | 11680 |
| Lanes | Peak Hour Volume Both Directions | | | | |
| 4 | 2230 | 3730 | 5140 | 6200 | 7090 |
| 6 | 3320 | 5640 | 7690 | 9300 | 10610 |
| 8 | 4410 | 7550 | 10320 | 12400 | 14160 |
| 10 | 5500 | 9370 | 12870 | 15500 | 17700 |
| 12 | 6600 | 11280 | 15410 | 18600 | 21230 |
| Lanes | Annual Average Daily Traffic | | | | |
| 4 | 24800 | 41500 | 57100 | 68900 | 78700 |
| 6 | 36900 | 62700 | 85400 | 103300 | 117900 |
| 8 | 49000 | 83900 | 114700 | 137800 | 157300 |
| 10 | 61200 | 104100 | 143000 | 172200 | 196700 |
| 12 | 73300 | 125300 | 171300 | 206700 | 235900 |



Enlace del Acceso Norte con la V-21 al norte de su cruce con la CV-32

Hipótesis 3

FREEPLAN 2012 Conceptual Planning Analysis

Project Information

| | | | | | |
|----------------------|--------------------|-----------------------|---------------------|---------------------|-------------------|
| Analyst | | Freeway Name | V-21 | Study Period | Standard K |
| Date Prepared | 28/4/2020 12:58:03 | From | Enlace CV-32 | Program | FREEPLAN 2012 |
| Agency | | To | Enlace Acceso Norte | Version Date | 12/12/2012 |
| Area Type | Large Urbanized | Peak Direction | Southbound | | |
| File Name | | | | | |
| User Notes | Año 2030 | | | | |

Freeway Data

| | | | | | |
|-------------|-------|---|------|--------------------------------|------|
| AADT | 61622 | Freeway Input Volume | 3050 | Local Adjustment Factor | 1,00 |
| K | 0,09 | PHF | 0,9 | Ramp Metering Exists | No |
| D | 0,55 | Pecent Trucks Entering First Segment | 7,88 | | |

Segment Data

| Seg # | From | To | Input Type | Length (ft) | Hourly Volume (veh/h) | # Lanes | Posted Speed (mi/h) | Free-Flow Speed (mi/h) | Terrain |
|-------|------|----|---------------|-------------|-----------------------|---------|---------------------|------------------------|---------|
| 1 | | | Basic Segment | 65617 | 3050 | 3 | 65 | 70 | Level |

Time Period Independent Weaving Segment Data

| Seg # | Configuration | Short Length (ft) | # Weaving Lanes | Min. Lane Changes Freeway-Ramp | Min. Lane Changes Ramp-Freeway | Min. Lane Changes Ramp-Ramp |
|-------|---------------|-------------------|-----------------|--------------------------------|--------------------------------|-----------------------------|
| | | | | | | |

Ramp Descriptions

| Segment | Type | On-Ramp | | | | | Off-Ramp | | | | |
|---------|------|-----------------------|-----|-------|----------------------|-----|-----------------------|-----|-------|----------------------|-----|
| | | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS |
| | | | | | | | | | | | |

Toll Plaza Input Data

| Segment | Configuration | Number of Manual Lanes | Number of Coin Machine Lanes | Number of ETC-Only Lanes | | |
|---------------------|---------------------------|------------------------|------------------------------|--------------------------|---------------------|--------------------|
| Pct. Manual Payment | Pct. Coin Machine Payment | Pct. ETC-Only Payment | Manual Avg. Service Time | Coin Avg. Service Time | ETC Free-Flow Speed | Prop. Trad. Demand |
| | | | | | | |

Segment Results and LOS

| Seg # | From | To | Analysis | Analysis Volume | Capacity | v/c Ratio | Avg. Speed | Density | LOS | Sig | Impact | |
|-----------------------|------|----------------|------------------|-----------------|------------------------|------------|-------------------|-------------|----------------|-------------|------------|----------|
| | | | | Type | (pc/h) | (pc/h) | | (mi/h) | (pc/h/ln) | | | |
| 1 | | | | Basic Segment | 3523 | 7200 | 0,49 | 70,0 | 16,8 | B | N/A | |
| Freeway Length | | 12,4275 | FFS Delay | 0,0 | Threshold Delay | 0,0 | Avg. Speed | 70,0 | Density | 16,8 | LOS | B |

Service Volumes

Note: The maximum normally acceptable directional service volume for LOS E in Florida for this facility type and area type is 2100 veh/h/ln.

| | A | B | C | D | E |
|--------------|---|--------|--------|--------|--------|
| Lanes | Hourly Volume In Peak Direction | | | | |
| 4 | 1220 | 2060 | 2820 | 3400 | 3880 |
| 6 | 1820 | 3100 | 4220 | 5100 | 5820 |
| 8 | 2420 | 4100 | 5620 | 6800 | 7760 |
| 10 | 3020 | 5160 | 7080 | 8500 | 9700 |
| 12 | 3620 | 6200 | 8480 | 10200 | 11640 |
| Lanes | Peak Hour Volume Both Directions | | | | |
| 4 | 2230 | 3730 | 5140 | 6190 | 7050 |
| 6 | 3320 | 5640 | 7690 | 9280 | 10580 |
| 8 | 4410 | 7460 | 10230 | 12350 | 14100 |
| 10 | 5500 | 9370 | 12870 | 15440 | 17630 |
| 12 | 6600 | 11280 | 15410 | 18530 | 21160 |
| Lanes | Annual Average Daily Traffic | | | | |
| 4 | 24800 | 41500 | 57100 | 68700 | 78300 |
| 6 | 36900 | 62700 | 85400 | 103100 | 117500 |
| 8 | 49000 | 82900 | 113700 | 137200 | 156700 |
| 10 | 61200 | 104100 | 143000 | 171600 | 195900 |
| 12 | 73300 | 125300 | 171300 | 205900 | 235100 |

FREEPLAN 2012 Conceptual Planning Analysis

Project Information

| | | | | | |
|----------------------|--------------------|-----------------------|---------------------|---------------------|-------------------|
| Analyst | | Freeway Name | V-21 | Study Period | Standard K |
| Date Prepared | 28/4/2020 12:58:03 | From | Enlace CV-32 | Program | FREEPLAN 2012 |
| Agency | | To | Enlace Acceso Norte | Version Date | 12/12/2012 |
| Area Type | Large Urbanized | Peak Direction | Southbound | | |
| File Name | | | | | |
| User Notes | Año 2040 | | | | |

Freeway Data

| | | | | | |
|-------------|-------|---|------|--------------------------------|------|
| AADT | 78519 | Freeway Input Volume | 3887 | Local Adjustment Factor | 1,00 |
| K | 0,09 | PHF | 0,9 | Ramp Metering Exists | No |
| D | 0,55 | Pecent Trucks Entering First Segment | 7,45 | | |

Segment Data

| Seg # | From | To | Input Type | Length (ft) | Hourly Volume (veh/h) | # Lanes | Posted Speed (mi/h) | Free-Flow Speed (mi/h) | Terrain |
|-------|------|----|---------------|-------------|-----------------------|---------|---------------------|------------------------|---------|
| 1 | | | Basic Segment | 65617 | 3887 | 3 | 65 | 70 | Level |

Time Period Independent Weaving Segment Data

| Seg # | Configuration | Short Length (ft) | # Weaving Lanes | Min. Lane Changes Freeway-Ramp | Min. Lane Changes Ramp-Freeway | Min. Lane Changes Ramp-Ramp |
|-------|---------------|-------------------|-----------------|--------------------------------|--------------------------------|-----------------------------|
| | | | | | | |

Ramp Descriptions

| Segment | Type | On-Ramp | | | | | Off-Ramp | | | | |
|---------|------|-----------------------|-----|-------|----------------------|-----|-----------------------|-----|-------|----------------------|-----|
| | | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS |
| | | | | | | | | | | | |

Toll Plaza Input Data

| Segment | Configuration | Number of Manual Lanes | Number of Coin Machine Lanes | Number of ETC-Only Lanes | | |
|---------------------|---------------------------|------------------------|------------------------------|--------------------------|---------------------|--------------------|
| Pct. Manual Payment | Pct. Coin Machine Payment | Pct. ETC-Only Payment | Manual Avg. Service Time | Coin Avg. Service Time | ETC Free-Flow Speed | Prop. Trad. Demand |
| | | | | | | |

Segment Results and LOS

| Seg # | From | To | Analysis Type | Analysis Volume (pc/h) | Capacity (pc/h) | v/c Ratio | Avg. Speed (mi/h) | Density (pc/h/ln) | LOS | Sig Impact | |
|-----------------------|----------------|------------------|---------------|------------------------|-----------------|-------------------|-------------------|-------------------|-------------|------------|----------|
| 1 | | | Basic Segment | 4480 | 7200 | 0,62 | 69,0 | 21,6 | C | N/A | |
| Freeway Length | 12,4275 | FFS Delay | 9,2 | Threshold Delay | 0,0 | Avg. Speed | 69,0 | Density | 21,6 | LOS | C |

Service Volumes

Note: The maximum normally acceptable directional service volume for LOS E in Florida for this facility type and area type is 2100 veh/h/ln.

| | A | B | C | D | E |
|--------------|---|--------|--------|--------|--------|
| Lanes | Hourly Volume In Peak Direction | | | | |
| 4 | 1220 | 2060 | 2820 | 3400 | 3880 |
| 6 | 1820 | 3100 | 4220 | 5120 | 5840 |
| 8 | 2420 | 4160 | 5680 | 6820 | 7780 |
| 10 | 3020 | 5160 | 7080 | 8520 | 9720 |
| 12 | 3620 | 6200 | 8480 | 10220 | 11660 |
| Lanes | Peak Hour Volume Both Directions | | | | |
| 4 | 2230 | 3730 | 5140 | 6190 | 7070 |
| 6 | 3320 | 5640 | 7690 | 9300 | 10610 |
| 8 | 4410 | 7550 | 10320 | 12390 | 14140 |
| 10 | 5500 | 9370 | 12870 | 15480 | 17670 |
| 12 | 6600 | 11280 | 15410 | 18570 | 21210 |
| Lanes | Annual Average Daily Traffic | | | | |
| 4 | 24800 | 41500 | 57100 | 68700 | 78500 |
| 6 | 36900 | 62700 | 85400 | 103300 | 117900 |
| 8 | 49000 | 83900 | 114700 | 137600 | 157100 |
| 10 | 61200 | 104100 | 143000 | 172000 | 196300 |
| 12 | 73300 | 125300 | 171300 | 206300 | 235700 |

FREEPLAN 2012 Conceptual Planning Analysis

Project Information

| | | | | | |
|----------------------|--------------------|-----------------------|---------------------|---------------------|-------------------|
| Analyst | | Freeway Name | V-21 | Study Period | Standard K |
| Date Prepared | 28/4/2020 11:33:59 | From | Puçol | Program | FREEPLAN 2012 |
| Agency | | To | Enlace Acceso Norte | Version Date | 12/12/2012 |
| Area Type | Large Urbanized | Peak Direction | Southbound | | |
| File Name | | | | | |
| User Notes | Año 2050 | | | | |

Freeway Data

| | | | | | |
|-------------|-------|---|------|--------------------------------|------|
| AADT | 99545 | Freeway Input Volume | 4927 | Local Adjustment Factor | 1,00 |
| K | 0,09 | PHF | 0,9 | Ramp Metering Exists | No |
| D | 0,55 | Pecent Trucks Entering First Segment | 6,55 | | |

Segment Data

| Seg # | From | To | Input Type | Length (ft) | Hourly Volume (veh/h) | # Lanes | Posted Speed (mi/h) | Free-Flow Speed (mi/h) | Terrain |
|-------|------|----|---------------|-------------|-----------------------|---------|---------------------|------------------------|---------|
| 1 | | | Basic Segment | 65617 | 4927 | 3 | 65 | 70 | Level |

Time Period Independent Weaving Segment Data

| Seg # | Configuration | Short Length (ft) | # Weaving Lanes | Min. Lane Changes Freeway-Ramp | Min. Lane Changes Ramp-Freeway | Min. Lane Changes Ramp-Ramp |
|-------|---------------|-------------------|-----------------|--------------------------------|--------------------------------|-----------------------------|
| | | | | | | |

Ramp Descriptions

| Segment | Type | On-Ramp | | | | | Off-Ramp | | | | |
|---------|------|-----------------------|-----|-------|----------------------|-----|-----------------------|-----|-------|----------------------|-----|
| | | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS |
| | | | | | | | | | | | |

Toll Plaza Input Data

| Segment | Configuration | Number of Manual Lanes | Number of Coin Machine Lanes | Number of ETC-Only Lanes | | |
|----------------------------|----------------------------------|------------------------------|---------------------------------|-------------------------------|----------------------------|---------------------------|
| Pct. Manual Payment | Pct. Coin Machine Payment | Pct. ETC-Only Payment | Manual Avg. Service Time | Coin Avg. Service Time | ETC Free-Flow Speed | Prop. Trad. Demand |

Segment Results and LOS

| Seg # | From | To | Analysis Type | Analysis Volume (pc/h) | Capacity (pc/h) | v/c Ratio | Avg. Speed (mi/h) | Density (pc/h/ln) | LOS | Sig Impact | |
|-----------------------|----------------|------------------|---------------|------------------------|-----------------|-------------------|-------------------|-------------------|-------------|------------|----------|
| 1 | | | Basic Segment | 5653 | 7200 | 0,79 | 64,6 | 29,2 | D | N/A | |
| Freeway Length | 12,4275 | FFS Delay | 53,8 | Threshold Delay | 0,0 | Avg. Speed | 64,6 | Density | 29,2 | LOS | D |

Service Volumes

Note: The maximum normally acceptable directional service volume for LOS E in Florida for this facility type and area type is 2100 veh/h/ln.

| | A | B | C | D | E |
|--------------|---|--------|--------|--------|--------|
| Lanes | Hourly Volume In Peak Direction | | | | |
| 4 | 1220 | 2060 | 2820 | 3420 | 3900 |
| 6 | 1820 | 3100 | 4280 | 5140 | 5860 |
| 8 | 2420 | 4160 | 5680 | 6840 | 7800 |
| 10 | 3080 | 5200 | 7080 | 8560 | 9760 |
| 12 | 3680 | 6200 | 8520 | 10260 | 11720 |
| Lanes | Peak Hour Volume Both Directions | | | | |
| 4 | 2230 | 3730 | 5140 | 6220 | 7100 |
| 6 | 3320 | 5640 | 7780 | 9330 | 10650 |
| 8 | 4410 | 7550 | 10320 | 12440 | 14200 |
| 10 | 5600 | 9460 | 12870 | 15550 | 17760 |
| 12 | 6690 | 11280 | 15500 | 18660 | 21300 |
| Lanes | Annual Average Daily Traffic | | | | |
| 4 | 24800 | 41500 | 57100 | 69100 | 78900 |
| 6 | 36900 | 62700 | 86400 | 103700 | 118300 |
| 8 | 49000 | 83900 | 114700 | 138200 | 157700 |
| 10 | 62200 | 105100 | 143000 | 172800 | 197300 |
| 12 | 74300 | 125300 | 172300 | 207300 | 236700 |



V-23



Previsión según evolución del PIB de los niveles de servicio

Tramo de Puçol hasta inicio de la A-23

FREEPLAN 2012 Conceptual Planning Analysis

Project Information

| | | | | | |
|----------------------|--------------------|-----------------------|-------------|---------------------|-------------------|
| Analyst | | Freeway Name | V-23 | Study Period | Standard K |
| Date Prepared | 22/5/2020 13:11:23 | From | Puçol | Program | FREEPLAN 2012 |
| Agency | | To | inicio A-23 | Version Date | 12/12/2012 |
| Area Type | Large Urbanized | Peak Direction | Northbound | | |
| File Name | | | | | |
| User Notes | Año 2030 | | | | |

Freeway Data

| | | | | | |
|-------------|-------|--|------|--------------------------------|------|
| AADT | 24537 | Freeway Input Volume | 1215 | Local Adjustment Factor | 1,00 |
| K | 0,09 | PHF | 0,9 | Ramp Metering Exists | No |
| D | 0,55 | Percent Trucks Entering First Segment | 6,31 | | |

Segment Data

| Seg # | From | To | Input Type | Length (ft) | Hourly Volume (veh/h) | # Lanes | Posted Speed (mi/h) | Free-Flow Speed (mi/h) | Terrain |
|-------|------|----|---------------|-------------|-----------------------|---------|---------------------|------------------------|---------|
| 1 | | | Basic Segment | 5280 | 1215 | 2 | 65 | 70 | Level |

Time Period Independent Weaving Segment Data

| Seg # | Configuration | Short Length (ft) | # Weaving Lanes | Min. Lane Changes Freeway-Ramp | Min. Lane Changes Ramp-Freeway | Min. Lane Changes Ramp-Ramp |
|-------|---------------|-------------------|-----------------|--------------------------------|--------------------------------|-----------------------------|
| | | | | | | |

Ramp Descriptions

| Segment | Type | On-Ramp | | | | | Off-Ramp | | | | |
|---------|------|-----------------------|-----|-------|----------------------|-----|-----------------------|-----|-------|----------------------|-----|
| | | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS |
| | | | | | | | | | | | |

Toll Plaza Input Data

| Segment | Configuration | Number of Manual Lanes | Number of Coin Machine Lanes | Number of ETC-Only Lanes | | |
|----------------------------|----------------------------------|------------------------------|---------------------------------|-------------------------------|----------------------------|---------------------------|
| Pct. Manual Payment | Pct. Coin Machine Payment | Pct. ETC-Only Payment | Manual Avg. Service Time | Coin Avg. Service Time | ETC Free-Flow Speed | Prop. Trad. Demand |

Segment Results and LOS

| Seg # | From | To | Analysis Type | Analysis Volume (pc/h) | Capacity (pc/h) | v/c Ratio | Avg. Speed (mi/h) | Density (pc/h/ln) | LOS | Sig Impact | |
|-----------------------|---------------|------------------|---------------|------------------------|-----------------|-------------------|-------------------|-------------------|------------|------------|----------|
| 1 | | | Basic Segment | 1393 | 4800 | 0,29 | 70,0 | 9,9 | A | N/A | |
| Freeway Length | 1,0000 | FFS Delay | 0,0 | Threshold Delay | 0,0 | Avg. Speed | 70,0 | Density | 9,9 | LOS | A |

Service Volumes

Note: The maximum normally acceptable directional service volume for LOS E in Florida for this facility type and area type is 2100 veh/h/ln.

| | A | B | C | D | E |
|--------------|---|--------|--------|--------|--------|
| Lanes | Hourly Volume In Peak Direction | | | | |
| 4 | 1220 | 2100 | 2820 | 3420 | 3900 |
| 6 | 1820 | 3100 | 4280 | 5140 | 5860 |
| 8 | 2420 | 4160 | 5680 | 6840 | 7820 |
| 10 | 3080 | 5200 | 7120 | 8560 | 9780 |
| 12 | 3680 | 6260 | 8520 | 10280 | 11720 |
| Lanes | Peak Hour Volume Both Directions | | | | |
| 4 | 2230 | 3820 | 5140 | 6220 | 7100 |
| 6 | 3320 | 5640 | 7780 | 9330 | 10670 |
| 8 | 4410 | 7550 | 10320 | 12440 | 14210 |
| 10 | 5600 | 9460 | 12960 | 15570 | 17780 |
| 12 | 6690 | 11370 | 15500 | 18680 | 21320 |
| Lanes | Annual Average Daily Traffic | | | | |
| 4 | 24800 | 42500 | 57100 | 69100 | 78900 |
| 6 | 36900 | 62700 | 86400 | 103700 | 118500 |
| 8 | 49000 | 83900 | 114700 | 138200 | 157900 |
| 10 | 62200 | 105100 | 144000 | 173000 | 197500 |
| 12 | 74300 | 126300 | 172300 | 207500 | 236900 |

FREEPLAN 2012 Conceptual Planning Analysis

Project Information

| | | | | | |
|----------------------|--------------------|-----------------------|-------------|---------------------|-------------------|
| Analyst | | Freeway Name | V-23 | Study Period | Standard K |
| Date Prepared | 22/5/2020 13:11:23 | From | Puçol | Program | FREEPLAN 2012 |
| Agency | | To | inicio A-23 | Version Date | 12/12/2012 |
| Area Type | Large Urbanized | Peak Direction | Northbound | | |
| File Name | | | | | |
| User Notes | Año 2050 | | | | |

Freeway Data

| | | | | | |
|-------------|-------|--|------|--------------------------------|------|
| AADT | 40208 | Freeway Input Volume | 1990 | Local Adjustment Factor | 1,00 |
| K | 0,09 | PHF | 0,9 | Ramp Metering Exists | No |
| D | 0,55 | Percent Trucks Entering First Segment | 6,31 | | |

Segment Data

| Seg # | From | To | Input Type | Length (ft) | Hourly Volume (veh/h) | # Lanes | Posted Speed (mi/h) | Free-Flow Speed (mi/h) | Terrain |
|-------|------|----|---------------|-------------|-----------------------|---------|---------------------|------------------------|---------|
| 1 | | | Basic Segment | 5280 | 1990 | 2 | 65 | 70 | Level |

Time Period Independent Weaving Segment Data

| Seg # | Configuration | Short Length (ft) | # Weaving Lanes | Min. Lane Changes Freeway-Ramp | Min. Lane Changes Ramp-Freeway | Min. Lane Changes Ramp-Ramp |
|-------|---------------|-------------------|-----------------|--------------------------------|--------------------------------|-----------------------------|
| | | | | | | |

Ramp Descriptions

| Segment | Type | On-Ramp | | | | | Off-Ramp | | | | |
|---------|------|-----------------------|-----|-------|----------------------|-----|-----------------------|-----|-------|----------------------|-----|
| | | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS |
| | | | | | | | | | | | |

Toll Plaza Input Data

| Segment | Configuration | Number of Manual Lanes | Number of Coin Machine Lanes | Number of ETC-Only Lanes | | |
|---------------------|---------------------------|------------------------|------------------------------|--------------------------|---------------------|--------------------|
| Pct. Manual Payment | Pct. Coin Machine Payment | Pct. ETC-Only Payment | Manual Avg. Service Time | Coin Avg. Service Time | ETC Free-Flow Speed | Prop. Trad. Demand |
| | | | | | | |

Segment Results and LOS

| Seg # | From | To | Analysis Type | Analysis Volume (pc/h) | Capacity (pc/h) | v/c Ratio | Avg. Speed (mi/h) | Density (pc/h/ln) | LOS | Sig Impact | |
|-----------------------|---------------|------------------|---------------|------------------------|-----------------|-------------------|-------------------|-------------------|-------------|------------|----------|
| 1 | | | Basic Segment | 2281 | 4800 | 0,48 | 70,0 | 16,3 | B | N/A | |
| Freeway Length | 1,0000 | FFS Delay | 0,0 | Threshold Delay | 0,0 | Avg. Speed | 70,0 | Density | 16,3 | LOS | B |

Service Volumes

Note: The maximum normally acceptable directional service volume for LOS E in Florida for this facility type and area type is 2100 veh/h/ln.

| | A | B | C | D | E |
|--------------|---|--------|--------|--------|--------|
| Lanes | Hourly Volume In Peak Direction | | | | |
| 4 | 1220 | 2100 | 2820 | 3420 | 3900 |
| 6 | 1820 | 3100 | 4280 | 5140 | 5860 |
| 8 | 2420 | 4160 | 5680 | 6840 | 7820 |
| 10 | 3080 | 5200 | 7120 | 8560 | 9780 |
| 12 | 3680 | 6260 | 8520 | 10280 | 11720 |
| Lanes | Peak Hour Volume Both Directions | | | | |
| 4 | 2230 | 3820 | 5140 | 6220 | 7100 |
| 6 | 3320 | 5640 | 7780 | 9330 | 10670 |
| 8 | 4410 | 7550 | 10320 | 12440 | 14210 |
| 10 | 5600 | 9460 | 12960 | 15570 | 17780 |
| 12 | 6690 | 11370 | 15500 | 18680 | 21320 |
| Lanes | Annual Average Daily Traffic | | | | |
| 4 | 24800 | 42500 | 57100 | 69100 | 78900 |
| 6 | 36900 | 62700 | 86400 | 103700 | 118500 |
| 8 | 49000 | 83900 | 114700 | 138200 | 157900 |
| 10 | 62200 | 105100 | 144000 | 173000 | 197500 |
| 12 | 74300 | 126300 | 172300 | 207500 | 236900 |



Previsión según evolución del PIB de los niveles de servicio

Tramo desde inicio de la A-23 hasta el Puerto de Sagunto

FREEPLAN 2012 Conceptual Planning Analysis

Project Information

| | | | | | |
|----------------------|--------------------|-----------------------|----------------|---------------------|-------------------|
| Analyst | | Freeway Name | V-23 | Study Period | Standard K |
| Date Prepared | 22/5/2020 13:24:22 | From | Inicio A-23 | Program | FREEPLAN 2012 |
| Agency | | To | Puerto Sagunto | Version Date | 12/12/2012 |
| Area Type | Other Urbanized | Peak Direction | Northbound | | |
| File Name | | | | | |
| User Notes | Año 2030 | | | | |

Freeway Data

| | | | | | |
|-------------|-------|---|-------|--------------------------------|------|
| AADT | 22080 | Freeway Input Volume | 1093 | Local Adjustment Factor | 1,00 |
| K | 0,09 | PHF | 0,9 | Ramp Metering Exists | No |
| D | 0,55 | Pecent Trucks Entering First Segment | 17,31 | | |

Segment Data

| Seg # | From | To | Input Type | Length (ft) | Hourly Volume (veh/h) | # Lanes | Posted Speed (mi/h) | Free-Flow Speed (mi/h) | Terrain |
|-------|------|----|---------------|-------------|-----------------------|---------|---------------------|------------------------|---------|
| 1 | | | Basic Segment | 5280 | 1093 | 2 | 65 | 70 | Level |

Time Period Independent Weaving Segment Data

| Seg # | Configuration | Short Length (ft) | # Weaving Lanes | Min. Lane Changes Freeway-Ramp | Min. Lane Changes Ramp-Freeway | Min. Lane Changes Ramp-Ramp |
|-------|---------------|-------------------|-----------------|--------------------------------|--------------------------------|-----------------------------|
| | | | | | | |

Ramp Descriptions

| Segment | Type | On-Ramp | | | | | Off-Ramp | | | | |
|---------|------|-----------------------|-----|-------|----------------------|-----|-----------------------|-----|-------|----------------------|-----|
| | | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS |
| | | | | | | | | | | | |

Toll Plaza Input Data

| Segment | Configuration | Number of Manual Lanes | Number of Coin Machine Lanes | Number of ETC-Only Lanes | | |
|---------------------|---------------------------|------------------------|------------------------------|--------------------------|---------------------|--------------------|
| Pct. Manual Payment | Pct. Coin Machine Payment | Pct. ETC-Only Payment | Manual Avg. Service Time | Coin Avg. Service Time | ETC Free-Flow Speed | Prop. Trad. Demand |
| | | | | | | |

Segment Results and LOS

| Seg # | From | To | Analysis Type | Analysis Volume (pc/h) | Capacity (pc/h) | v/c Ratio | Avg. Speed (mi/h) | Density (pc/h/ln) | LOS | Sig Impact | |
|-----------------------|---------------|------------------|---------------|------------------------|-----------------|-------------------|-------------------|-------------------|------------|------------|----------|
| 1 | | | Basic Segment | 1319 | 4800 | 0,27 | 70,0 | 9,4 | A | N/A | |
| Freeway Length | 1,0000 | FFS Delay | 0,0 | Threshold Delay | 0,0 | Avg. Speed | 70,0 | Density | 9,4 | LOS | A |

Service Volumes

Note: The maximum normally acceptable directional service volume for LOS E in Florida for this facility type and area type is 2000 veh/h/ln.

| Lanes | A | B | C | D | E |
|--------------|---|--------|--------|--------|--------|
| Lanes | Hourly Volume In Peak Direction | | | | |
| 4 | 1180 | 1960 | 2680 | 3260 | 3720 |
| 6 | 1720 | 2960 | 4020 | 4880 | 5560 |
| 8 | 2320 | 3960 | 5380 | 6500 | 7420 |
| 10 | 2880 | 4960 | 6720 | 8120 | 9280 |
| 12 | 3480 | 5900 | 8080 | 9760 | 11140 |
| Lanes | Peak Hour Volume Both Directions | | | | |
| 4 | 2140 | 3550 | 4870 | 5910 | 6760 |
| 6 | 3140 | 5370 | 7320 | 8860 | 10120 |
| 8 | 4230 | 7190 | 9780 | 11820 | 13500 |
| 10 | 5230 | 9000 | 12230 | 14770 | 16870 |
| 12 | 6320 | 10730 | 14690 | 17730 | 20250 |
| Lanes | Annual Average Daily Traffic | | | | |
| 4 | 23800 | 39400 | 54100 | 65700 | 75100 |
| 6 | 34900 | 59600 | 81400 | 98400 | 112500 |
| 8 | 47000 | 79800 | 108600 | 131400 | 150000 |
| 10 | 58100 | 100000 | 135900 | 164100 | 187400 |
| 12 | 70300 | 119200 | 163200 | 197000 | 225000 |

FREEPLAN 2012 Conceptual Planning Analysis

Project Information

| | | | | | |
|----------------------|--------------------|-----------------------|----------------|---------------------|-------------------|
| Analyst | | Freeway Name | V-23 | Study Period | Standard K |
| Date Prepared | 22/5/2020 13:11:23 | From | Inicio A-23 | Program | FREEPLAN 2012 |
| Agency | | To | Puerto Sagunto | Version Date | 12/12/2012 |
| Area Type | Large Urbanized | Peak Direction | Northbound | | |
| File Name | | | | | |
| User Notes | Año 2050 | | | | |

Freeway Data

| | | | | | |
|-------------|-------|--|-------|--------------------------------|------|
| AADT | 36181 | Freeway Input Volume | 1791 | Local Adjustment Factor | 1,00 |
| K | 0,09 | PHF | 0,9 | Ramp Metering Exists | No |
| D | 0,55 | Percent Trucks Entering First Segment | 17,31 | | |

Segment Data

| Seg # | From | To | Input Type | Length (ft) | Hourly Volume (veh/h) | # Lanes | Posted Speed (mi/h) | Free-Flow Speed (mi/h) | Terrain |
|-------|------|----|---------------|-------------|-----------------------|---------|---------------------|------------------------|---------|
| 1 | | | Basic Segment | 5280 | 1791 | 2 | 65 | 70 | Level |

Time Period Independent Weaving Segment Data

| Seg # | Configuration | Short Length (ft) | # Weaving Lanes | Min. Lane Changes Freeway-Ramp | Min. Lane Changes Ramp-Freeway | Min. Lane Changes Ramp-Ramp |
|-------|---------------|-------------------|-----------------|--------------------------------|--------------------------------|-----------------------------|
| | | | | | | |

Ramp Descriptions

| Segment | Type | On-Ramp | | | | | Off-Ramp | | | | |
|---------|------|-----------------------|-----|-------|----------------------|-----|-----------------------|-----|-------|----------------------|-----|
| | | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS |
| | | | | | | | | | | | |

Toll Plaza Input Data

| Segment | Configuration | Number of Manual Lanes | Number of Coin Machine Lanes | Number of ETC-Only Lanes | | |
|---------------------|---------------------------|------------------------|------------------------------|--------------------------|---------------------|--------------------|
| Pct. Manual Payment | Pct. Coin Machine Payment | Pct. ETC-Only Payment | Manual Avg. Service Time | Coin Avg. Service Time | ETC Free-Flow Speed | Prop. Trad. Demand |
| | | | | | | |

Segment Results and LOS

| Seg # | From | To | Analysis Type | Analysis Volume (pc/h) | Capacity (pc/h) | v/c Ratio | Avg. Speed (mi/h) | Density (pc/h/ln) | LOS | Sig Impact | |
|-----------------------|---------------|------------------|---------------|------------------------|-----------------|-------------------|-------------------|-------------------|-------------|------------|----------|
| 1 | | | Basic Segment | 2162 | 4800 | 0,45 | 70,0 | 15,4 | B | N/A | |
| Freeway Length | 1,0000 | FFS Delay | 0,0 | Threshold Delay | 0,0 | Avg. Speed | 70,0 | Density | 15,4 | LOS | B |

Service Volumes

Note: The maximum normally acceptable directional service volume for LOS E in Florida for this facility type and area type is 2100 veh/h/ln.

| Lanes | A | B | C | D | E |
|--------------|---|--------|--------|--------|--------|
| Lanes | Hourly Volume In Peak Direction | | | | |
| 4 | 1180 | 1960 | 2680 | 3260 | 3720 |
| 6 | 1720 | 2960 | 4020 | 4880 | 5560 |
| 8 | 2320 | 3960 | 5380 | 6500 | 7420 |
| 10 | 2880 | 4960 | 6720 | 8120 | 9280 |
| 12 | 3480 | 5900 | 8080 | 9760 | 11140 |
| Lanes | Peak Hour Volume Both Directions | | | | |
| 4 | 2140 | 3550 | 4870 | 5910 | 6760 |
| 6 | 3140 | 5370 | 7320 | 8860 | 10120 |
| 8 | 4230 | 7190 | 9780 | 11820 | 13500 |
| 10 | 5230 | 9000 | 12230 | 14770 | 16870 |
| 12 | 6320 | 10730 | 14690 | 17730 | 20250 |
| Lanes | Annual Average Daily Traffic | | | | |
| 4 | 23800 | 39400 | 54100 | 65700 | 75100 |
| 6 | 34900 | 59600 | 81400 | 98400 | 112500 |
| 8 | 47000 | 79800 | 108600 | 131400 | 150000 |
| 10 | 58100 | 100000 | 135900 | 164100 | 187400 |
| 12 | 70300 | 119200 | 163200 | 197000 | 225000 |



Enlace del Acceso Norte con la V-23 entre Puçol y su cruce con la A-23

Hipótesis 1

FREEPLAN 2012 Conceptual Planning Analysis

Project Information

| | | | | | |
|----------------------|--------------------|-----------------------|---------------------|---------------------|-------------------|
| Analyst | | Freeway Name | V-23 | Study Period | Standard K |
| Date Prepared | 13/5/2020 12:12:26 | From | Enlace Acceso Norte | Program | FREEPLAN 2012 |
| Agency | | To | inicio A-23 | Version Date | 12/12/2012 |
| Area Type | Other Urbanized | Peak Direction | Southbound | | |
| File Name | | | | | |
| User Notes | Año 2030 | | | | |

Freeway Data

| | | | | | |
|-------------|-------|---|-------|--------------------------------|------|
| AADT | 28582 | Freeway Input Volume | 1415 | Local Adjustment Factor | 1,00 |
| K | 0,09 | PHF | 0,9 | Ramp Metering Exists | No |
| D | 0,55 | Pecent Trucks Entering First Segment | 19,57 | | |

Segment Data

| Seg # | From | To | Input Type | Length (ft) | Hourly Volume (veh/h) | # Lanes | Posted Speed (mi/h) | Free-Flow Speed (mi/h) | Terrain |
|-------|------|----|---------------|-------------|-----------------------|---------|---------------------|------------------------|---------|
| 1 | | | Basic Segment | 5280 | 1415 | 2 | 65 | 70 | Level |

Time Period Independent Weaving Segment Data

| Seg # | Configuration | Short Length (ft) | # Weaving Lanes | Min. Lane Changes Freeway-Ramp | Min. Lane Changes Ramp-Freeway | Min. Lane Changes Ramp-Ramp |
|-------|---------------|-------------------|-----------------|--------------------------------|--------------------------------|-----------------------------|
| | | | | | | |

Ramp Descriptions

| Segment | Type | On-Ramp | | | | | Off-Ramp | | | | |
|---------|------|-----------------------|-----|-------|----------------------|-----|-----------------------|-----|-------|----------------------|-----|
| | | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS |
| | | | | | | | | | | | |

Toll Plaza Input Data

| Segment | Configuration | Number of Manual Lanes | Number of Coin Machine Lanes | Number of ETC-Only Lanes | | |
|---------------------|---------------------------|------------------------|------------------------------|--------------------------|---------------------|--------------------|
| Pct. Manual Payment | Pct. Coin Machine Payment | Pct. ETC-Only Payment | Manual Avg. Service Time | Coin Avg. Service Time | ETC Free-Flow Speed | Prop. Trad. Demand |
| | | | | | | |

Segment Results and LOS

| Seg # | From | To | Analysis Type | Analysis Volume (pc/h) | Capacity (pc/h) | v/c Ratio | Avg. Speed (mi/h) | Density (pc/h/ln) | LOS | Sig Impact | |
|-----------------------|---------------|------------------|---------------|------------------------|-----------------|-------------------|-------------------|-------------------|-------------|------------|----------|
| 1 | | | Basic Segment | 1726 | 4800 | 0,36 | 70,0 | 12,3 | B | N/A | |
| Freeway Length | 1,0000 | FFS Delay | 0,0 | Threshold Delay | 0,0 | Avg. Speed | 70,0 | Density | 12,3 | LOS | B |

Service Volumes

Note: The maximum normally acceptable directional service volume for LOS E in Florida for this facility type and area type is 2000 veh/h/ln.

| | A | B | C | D | E |
|--------------|---|--------|--------|--------|--------|
| Lanes | Hourly Volume In Peak Direction | | | | |
| 4 | 1120 | 1960 | 2680 | 3220 | 3680 |
| 6 | 1720 | 2960 | 4020 | 4820 | 5520 |
| 8 | 2280 | 3900 | 5320 | 6440 | 7340 |
| 10 | 2880 | 4900 | 6680 | 8040 | 9180 |
| 12 | 3420 | 5860 | 8020 | 9660 | 11020 |
| Lanes | Peak Hour Volume Both Directions | | | | |
| 4 | 2050 | 3550 | 4870 | 5860 | 6690 |
| 6 | 3140 | 5370 | 7320 | 8770 | 10030 |
| 8 | 4140 | 7100 | 9690 | 11700 | 13360 |
| 10 | 5230 | 8910 | 12140 | 14620 | 16700 |
| 12 | 6230 | 10640 | 14600 | 17550 | 20050 |
| Lanes | Annual Average Daily Traffic | | | | |
| 4 | 22800 | 39400 | 54100 | 65100 | 74300 |
| 6 | 34900 | 59600 | 81400 | 97400 | 111500 |
| 8 | 46000 | 78800 | 107600 | 129900 | 148400 |
| 10 | 58100 | 99000 | 134900 | 162500 | 185600 |
| 12 | 69200 | 118200 | 162200 | 195000 | 222800 |

FREEPLAN 2012 Conceptual Planning Analysis

Project Information

| | | | | | |
|----------------------|--------------------|-----------------------|---------------------|---------------------|-------------------|
| Analyst | | Freeway Name | V-23 | Study Period | Standard K |
| Date Prepared | 13/5/2020 12:12:26 | From | Enlace Acceso Norte | Program | FREEPLAN 2012 |
| Agency | | To | inicio A-23 | Version Date | 12/12/2012 |
| Area Type | Other Urbanized | Peak Direction | Southbound | | |
| File Name | | | | | |
| User Notes | Año 2040 | | | | |

Freeway Data

| | | | | | |
|-------------|-------|---|-------|--------------------------------|------|
| AADT | 36439 | Freeway Input Volume | 1804 | Local Adjustment Factor | 1,00 |
| K | 0,09 | PHF | 0,9 | Ramp Metering Exists | No |
| D | 0,55 | Pecent Trucks Entering First Segment | 19,24 | | |

Segment Data

| Seg # | From | To | Input Type | Length (ft) | Hourly Volume (veh/h) | # Lanes | Posted Speed (mi/h) | Free-Flow Speed (mi/h) | Terrain |
|-------|------|----|---------------|-------------|-----------------------|---------|---------------------|------------------------|---------|
| 1 | | | Basic Segment | 5280 | 1804 | 2 | 65 | 70 | Level |

Time Period Independent Weaving Segment Data

| Seg # | Configuration | Short Length (ft) | # Weaving Lanes | Min. Lane Changes Freeway-Ramp | Min. Lane Changes Ramp-Freeway | Min. Lane Changes Ramp-Ramp |
|-------|---------------|-------------------|-----------------|--------------------------------|--------------------------------|-----------------------------|
| | | | | | | |

Ramp Descriptions

| Segment | Type | On-Ramp | | | | | Off-Ramp | | | | |
|---------|------|-----------------------|-----|-------|----------------------|-----|-----------------------|-----|-------|----------------------|-----|
| | | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS |
| | | | | | | | | | | | |

Toll Plaza Input Data

| Segment | Configuration | Number of Manual Lanes | Number of Coin Machine Lanes | Number of ETC-Only Lanes | | |
|---------------------|---------------------------|------------------------|------------------------------|--------------------------|---------------------|--------------------|
| Pct. Manual Payment | Pct. Coin Machine Payment | Pct. ETC-Only Payment | Manual Avg. Service Time | Coin Avg. Service Time | ETC Free-Flow Speed | Prop. Trad. Demand |
| | | | | | | |

Segment Results and LOS

| Seg # | From | To | Analysis Type | Analysis Volume (pc/h) | Capacity (pc/h) | v/c Ratio | Avg. Speed (mi/h) | Density (pc/h/ln) | LOS | Sig Impact | |
|-----------------------|---------------|------------------|---------------|------------------------|-----------------|-------------------|-------------------|-------------------|-------------|------------|----------|
| 1 | | | Basic Segment | 2197 | 4800 | 0,46 | 70,0 | 15,7 | B | N/A | |
| Freeway Length | 1,0000 | FFS Delay | 0,0 | Threshold Delay | 0,0 | Avg. Speed | 70,0 | Density | 15,7 | LOS | B |

Service Volumes

Note: The maximum normally acceptable directional service volume for LOS E in Florida for this facility type and area type is 2000 veh/h/ln.

| | A | B | C | D | E |
|--------------|---|--------|--------|--------|--------|
| Lanes | Hourly Volume In Peak Direction | | | | |
| 4 | 1120 | 1960 | 2680 | 3220 | 3680 |
| 6 | 1720 | 2960 | 4020 | 4840 | 5520 |
| 8 | 2280 | 3900 | 5320 | 6440 | 7360 |
| 10 | 2880 | 4900 | 6680 | 8060 | 9200 |
| 12 | 3420 | 5860 | 8020 | 9660 | 11040 |
| Lanes | Peak Hour Volume Both Directions | | | | |
| 4 | 2050 | 3550 | 4870 | 5860 | 6690 |
| 6 | 3140 | 5370 | 7320 | 8790 | 10030 |
| 8 | 4140 | 7100 | 9690 | 11710 | 13380 |
| 10 | 5230 | 8910 | 12140 | 14640 | 16720 |
| 12 | 6230 | 10640 | 14600 | 17570 | 20070 |
| Lanes | Annual Average Daily Traffic | | | | |
| 4 | 22800 | 39400 | 54100 | 65100 | 74300 |
| 6 | 34900 | 59600 | 81400 | 97600 | 111500 |
| 8 | 46000 | 78800 | 107600 | 130200 | 148600 |
| 10 | 58100 | 99000 | 134900 | 162700 | 185800 |
| 12 | 69200 | 118200 | 162200 | 195200 | 223000 |

FREEPLAN 2012 Conceptual Planning Analysis

Project Information

| | | | | | |
|----------------------|--------------------|-----------------------|---------------------|---------------------|-------------------|
| Analyst | | Freeway Name | V-23 | Study Period | Standard K |
| Date Prepared | 13/5/2020 12:12:26 | From | Enlace Acceso Norte | Program | FREEPLAN 2012 |
| Agency | | To | inicio A-23 | Version Date | 12/12/2012 |
| Area Type | Other Urbanized | Peak Direction | Southbound | | |
| File Name | | | | | |
| User Notes | Año 2050 | | | | |

Freeway Data

| | | | | | |
|-------------|-------|---|-------|--------------------------------|------|
| AADT | 46242 | Freeway Input Volume | 2289 | Local Adjustment Factor | 1,00 |
| K | 0,09 | PHF | 0,9 | Ramp Metering Exists | No |
| D | 0,55 | Pecent Trucks Entering First Segment | 18,54 | | |

Segment Data

| Seg # | From | To | Input Type | Length (ft) | Hourly Volume (veh/h) | # Lanes | Posted Speed (mi/h) | Free-Flow Speed (mi/h) | Terrain |
|-------|------|----|---------------|-------------|-----------------------|---------|---------------------|------------------------|---------|
| 1 | | | Basic Segment | 5280 | 2289 | 2 | 65 | 70 | Level |

Time Period Independent Weaving Segment Data

| Seg # | Configuration | Short Length (ft) | # Weaving Lanes | Min. Lane Changes Freeway-Ramp | Min. Lane Changes Ramp-Freeway | Min. Lane Changes Ramp-Ramp |
|-------|---------------|-------------------|-----------------|--------------------------------|--------------------------------|-----------------------------|
| | | | | | | |

Ramp Descriptions

| Segment | Type | On-Ramp | | | | | Off-Ramp | | | | |
|---------|------|-----------------------|-----|-------|----------------------|-----|-----------------------|-----|-------|----------------------|-----|
| | | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS |
| | | | | | | | | | | | |

Toll Plaza Input Data

| Segment | Configuration | Number of Manual Lanes | Number of Coin Machine Lanes | Number of ETC-Only Lanes | | |
|---------------------|---------------------------|------------------------|------------------------------|--------------------------|---------------------|--------------------|
| Pct. Manual Payment | Pct. Coin Machine Payment | Pct. ETC-Only Payment | Manual Avg. Service Time | Coin Avg. Service Time | ETC Free-Flow Speed | Prop. Trad. Demand |
| | | | | | | |

Segment Results and LOS

| Seg # | From | To | Analysis Type | Analysis Volume (pc/h) | Capacity (pc/h) | v/c Ratio | Avg. Speed (mi/h) | Density (pc/h/ln) | LOS | Sig Impact | |
|-----------------------|---------------|------------------|---------------|------------------------|-----------------|-------------------|-------------------|-------------------|-------------|------------|----------|
| 1 | | | Basic Segment | 2779 | 4800 | 0,58 | 69,6 | 20,0 | C | N/A | |
| Freeway Length | 1,0000 | FFS Delay | 0,3 | Threshold Delay | 0,0 | Avg. Speed | 69,6 | Density | 20,0 | LOS | C |

Service Volumes

Note: The maximum normally acceptable directional service volume for LOS E in Florida for this facility type and area type is 2000 veh/h/ln.

| | A | B | C | D | E |
|--------------|---|--------|--------|--------|--------|
| Lanes | Hourly Volume In Peak Direction | | | | |
| 4 | 1180 | 1960 | 2680 | 3240 | 3700 |
| 6 | 1720 | 2960 | 4020 | 4860 | 5540 |
| 8 | 2320 | 3900 | 5380 | 6460 | 7380 |
| 10 | 2880 | 4900 | 6720 | 8080 | 9220 |
| 12 | 3480 | 5900 | 8020 | 9700 | 11080 |
| Lanes | Peak Hour Volume Both Directions | | | | |
| 4 | 2140 | 3550 | 4870 | 5880 | 6720 |
| 6 | 3140 | 5370 | 7320 | 8820 | 10070 |
| 8 | 4230 | 7100 | 9780 | 11750 | 13430 |
| 10 | 5230 | 8910 | 12230 | 14700 | 16780 |
| 12 | 6320 | 10730 | 14600 | 17620 | 20140 |
| Lanes | Annual Average Daily Traffic | | | | |
| 4 | 23800 | 39400 | 54100 | 65300 | 74700 |
| 6 | 34900 | 59600 | 81400 | 98000 | 111900 |
| 8 | 47000 | 78800 | 108600 | 130600 | 149200 |
| 10 | 58100 | 99000 | 135900 | 163300 | 186400 |
| 12 | 70300 | 119200 | 162200 | 195800 | 223800 |



Enlace del Acceso Norte con la V-23 entre Puçol y su cruce con la A-23

Hipótesis 2

FREEPLAN 2012 Conceptual Planning Analysis

Project Information

| | | | | | |
|----------------------|--------------------|-----------------------|---------------------|---------------------|-------------------|
| Analyst | | Freeway Name | V-23 | Study Period | Standard K |
| Date Prepared | 13/5/2020 12:12:26 | From | Enlace Acceso Norte | Program | FREEPLAN 2012 |
| Agency | | To | inicio A-23 | Version Date | 12/12/2012 |
| Area Type | Other Urbanized | Peak Direction | Southbound | | |
| File Name | | | | | |
| User Notes | Año 2030 | | | | |

Freeway Data

| | | | | | |
|-------------|-------|---|-------|--------------------------------|------|
| AADT | 28274 | Freeway Input Volume | 1400 | Local Adjustment Factor | 1,00 |
| K | 0,09 | PHF | 0,9 | Ramp Metering Exists | No |
| D | 0,55 | Pecent Trucks Entering First Segment | 18,69 | | |

Segment Data

| Seg # | From | To | Input Type | Length (ft) | Hourly Volume (veh/h) | # Lanes | Posted Speed (mi/h) | Free-Flow Speed (mi/h) | Terrain |
|-------|------|----|---------------|-------------|-----------------------|---------|---------------------|------------------------|---------|
| 1 | | | Basic Segment | 5280 | 1400 | 2 | 65 | 70 | Level |

Time Period Independent Weaving Segment Data

| Seg # | Configuration | Short Length (ft) | # Weaving Lanes | Min. Lane Changes Freeway-Ramp | Min. Lane Changes Ramp-Freeway | Min. Lane Changes Ramp-Ramp |
|-------|---------------|-------------------|-----------------|--------------------------------|--------------------------------|-----------------------------|
| | | | | | | |

Ramp Descriptions

| Segment | Type | On-Ramp | | | | | Off-Ramp | | | | |
|---------|------|-----------------------|-----|-------|----------------------|-----|-----------------------|-----|-------|----------------------|-----|
| | | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS |
| | | | | | | | | | | | |

Toll Plaza Input Data

| Segment | Configuration | Number of Manual Lanes | Number of Coin Machine Lanes | Number of ETC-Only Lanes | | |
|---------------------|---------------------------|------------------------|------------------------------|--------------------------|---------------------|--------------------|
| Pct. Manual Payment | Pct. Coin Machine Payment | Pct. ETC-Only Payment | Manual Avg. Service Time | Coin Avg. Service Time | ETC Free-Flow Speed | Prop. Trad. Demand |
| | | | | | | |

Segment Results and LOS

| Seg # | From | To | Analysis Type | Analysis Volume (pc/h) | Capacity (pc/h) | v/c Ratio | Avg. Speed (mi/h) | Density (pc/h/ln) | LOS | Sig Impact | |
|-----------------------|---------------|------------------|---------------|------------------------|-----------------|-------------------|-------------------|-------------------|-------------|------------|----------|
| 1 | | | Basic Segment | 1701 | 4800 | 0,35 | 70,0 | 12,2 | B | N/A | |
| Freeway Length | 1,0000 | FFS Delay | 0,0 | Threshold Delay | 0,0 | Avg. Speed | 70,0 | Density | 12,2 | LOS | B |

Service Volumes

Note: The maximum normally acceptable directional service volume for LOS E in Florida for this facility type and area type is 2000 veh/h/ln.

| | A | B | C | D | E |
|--------------|---|--------|--------|--------|--------|
| Lanes | Hourly Volume In Peak Direction | | | | |
| 4 | 1180 | 1960 | 2680 | 3240 | 3680 |
| 6 | 1720 | 2960 | 4020 | 4840 | 5540 |
| 8 | 2320 | 3900 | 5380 | 6460 | 7380 |
| 10 | 2880 | 4900 | 6720 | 8080 | 9220 |
| 12 | 3480 | 5900 | 8020 | 9700 | 11060 |
| Lanes | Peak Hour Volume Both Directions | | | | |
| 4 | 2140 | 3550 | 4870 | 5880 | 6700 |
| 6 | 3140 | 5370 | 7320 | 8800 | 10070 |
| 8 | 4230 | 7100 | 9780 | 11750 | 13410 |
| 10 | 5230 | 8910 | 12230 | 14680 | 16780 |
| 12 | 6320 | 10730 | 14600 | 17620 | 20120 |
| Lanes | Annual Average Daily Traffic | | | | |
| 4 | 23800 | 39400 | 54100 | 65300 | 74500 |
| 6 | 34900 | 59600 | 81400 | 97800 | 111900 |
| 8 | 47000 | 78800 | 108600 | 130600 | 149000 |
| 10 | 58100 | 99000 | 135900 | 163100 | 186400 |
| 12 | 70300 | 119200 | 162200 | 195800 | 223600 |

FREEPLAN 2012 Conceptual Planning Analysis

Project Information

| | | | | | |
|----------------------|--------------------|-----------------------|---------------------|---------------------|-------------------|
| Analyst | | Freeway Name | V-23 | Study Period | Standard K |
| Date Prepared | 13/5/2020 12:12:26 | From | Enlace Acceso Norte | Program | FREEPLAN 2012 |
| Agency | | To | inicio A-23 | Version Date | 12/12/2012 |
| Area Type | Other Urbanized | Peak Direction | Southbound | | |
| File Name | | | | | |
| User Notes | Año 2040 | | | | |

Freeway Data

| | | | | | |
|-------------|-------|--|------|--------------------------------|------|
| AADT | 36107 | Freeway Input Volume | 1787 | Local Adjustment Factor | 1,00 |
| K | 0,09 | PHF | 0,9 | Ramp Metering Exists | No |
| D | 0,55 | Percent Trucks Entering First Segment | 18,5 | | |

Segment Data

| Seg # | From | To | Input Type | Length (ft) | Hourly Volume (veh/h) | # Lanes | Posted Speed (mi/h) | Free-Flow Speed (mi/h) | Terrain |
|-------|------|----|---------------|-------------|-----------------------|---------|---------------------|------------------------|---------|
| 1 | | | Basic Segment | 5280 | 1787 | 2 | 65 | 70 | Level |

Time Period Independent Weaving Segment Data

| Seg # | Configuration | Short Length (ft) | # Weaving Lanes | Min. Lane Changes Freeway-Ramp | Min. Lane Changes Ramp-Freeway | Min. Lane Changes Ramp-Ramp |
|-------|---------------|-------------------|-----------------|--------------------------------|--------------------------------|-----------------------------|
| | | | | | | |

Ramp Descriptions

| Segment | Type | On-Ramp | | | | | Off-Ramp | | | | |
|---------|------|-----------------------|-----|-------|----------------------|-----|-----------------------|-----|-------|----------------------|-----|
| | | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS |
| | | | | | | | | | | | |

Toll Plaza Input Data

| Segment | Configuration | Number of Manual Lanes | Number of Coin Machine Lanes | Number of ETC-Only Lanes | | |
|----------------------------|----------------------------------|------------------------------|---------------------------------|-------------------------------|----------------------------|---------------------------|
| Pct. Manual Payment | Pct. Coin Machine Payment | Pct. ETC-Only Payment | Manual Avg. Service Time | Coin Avg. Service Time | ETC Free-Flow Speed | Prop. Trad. Demand |

Segment Results and LOS

| Seg # | From | To | Analysis Type | Analysis Volume (pc/h) | Capacity (pc/h) | v/c Ratio | Avg. Speed (mi/h) | Density (pc/h/ln) | LOS | Sig Impact | |
|-----------------------|---------------|------------------|---------------|------------------------|-----------------|-------------------|-------------------|-------------------|-------------|------------|----------|
| 1 | | | Basic Segment | 2170 | 4800 | 0,45 | 70,0 | 15,5 | B | N/A | |
| Freeway Length | 1,0000 | FFS Delay | 0,0 | Threshold Delay | 0,0 | Avg. Speed | 70,0 | Density | 15,5 | LOS | B |

Service Volumes

Note: The maximum normally acceptable directional service volume for LOS E in Florida for this facility type and area type is 2000 veh/h/ln.

| | A | B | C | D | E |
|--------------|---|--------|--------|--------|--------|
| Lanes | Hourly Volume In Peak Direction | | | | |
| 4 | 1180 | 1960 | 2680 | 3240 | 3700 |
| 6 | 1720 | 2960 | 4020 | 4860 | 5540 |
| 8 | 2320 | 3900 | 5380 | 6460 | 7380 |
| 10 | 2880 | 4900 | 6720 | 8080 | 9220 |
| 12 | 3480 | 5900 | 8080 | 9700 | 11080 |
| Lanes | Peak Hour Volume Both Directions | | | | |
| 4 | 2140 | 3550 | 4870 | 5880 | 6720 |
| 6 | 3140 | 5370 | 7320 | 8820 | 10070 |
| 8 | 4230 | 7100 | 9780 | 11750 | 13430 |
| 10 | 5230 | 8910 | 12230 | 14700 | 16780 |
| 12 | 6320 | 10730 | 14690 | 17640 | 20140 |
| Lanes | Annual Average Daily Traffic | | | | |
| 4 | 23800 | 39400 | 54100 | 65300 | 74700 |
| 6 | 34900 | 59600 | 81400 | 98000 | 111900 |
| 8 | 47000 | 78800 | 108600 | 130600 | 149200 |
| 10 | 58100 | 99000 | 135900 | 163300 | 186400 |
| 12 | 70300 | 119200 | 163200 | 196000 | 223800 |

FREEPLAN 2012 Conceptual Planning Analysis

Project Information

| | | | | | |
|----------------------|--------------------|-----------------------|---------------------|---------------------|-------------------|
| Analyst | | Freeway Name | V-23 | Study Period | Standard K |
| Date Prepared | 13/5/2020 12:12:26 | From | Enlace Acceso Norte | Program | FREEPLAN 2012 |
| Agency | | To | inicio A-23 | Version Date | 12/12/2012 |
| Area Type | Other Urbanized | Peak Direction | Southbound | | |
| File Name | | | | | |
| User Notes | Año 2050 | | | | |

Freeway Data

| | | | | | |
|-------------|-------|---|-------|--------------------------------|------|
| AADT | 45572 | Freeway Input Volume | 2256 | Local Adjustment Factor | 1,00 |
| K | 0,09 | PHF | 0,9 | Ramp Metering Exists | No |
| D | 0,55 | Pecent Trucks Entering First Segment | 17,34 | | |

Segment Data

| Seg # | From | To | Input Type | Length (ft) | Hourly Volume (veh/h) | # Lanes | Posted Speed (mi/h) | Free-Flow Speed (mi/h) | Terrain |
|-------|------|----|---------------|-------------|-----------------------|---------|---------------------|------------------------|---------|
| 1 | | | Basic Segment | 5280 | 2256 | 2 | 65 | 70 | Level |

Time Period Independent Weaving Segment Data

| Seg # | Configuration | Short Length (ft) | # Weaving Lanes | Min. Lane Changes Freeway-Ramp | Min. Lane Changes Ramp-Freeway | Min. Lane Changes Ramp-Ramp |
|-------|---------------|-------------------|-----------------|--------------------------------|--------------------------------|-----------------------------|
| | | | | | | |

Ramp Descriptions

| Segment | Type | On-Ramp | | | | | Off-Ramp | | | | |
|---------|------|-----------------------|-----|-------|----------------------|-----|-----------------------|-----|-------|----------------------|-----|
| | | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS |
| | | | | | | | | | | | |

Toll Plaza Input Data

| Segment | Configuration | Number of Manual Lanes | Number of Coin Machine Lanes | Number of ETC-Only Lanes | | |
|---------------------|---------------------------|------------------------|------------------------------|--------------------------|---------------------|--------------------|
| Pct. Manual Payment | Pct. Coin Machine Payment | Pct. ETC-Only Payment | Manual Avg. Service Time | Coin Avg. Service Time | ETC Free-Flow Speed | Prop. Trad. Demand |
| | | | | | | |

Segment Results and LOS

| Seg # | From | To | Analysis Type | Analysis Volume (pc/h) | Capacity (pc/h) | v/c Ratio | Avg. Speed (mi/h) | Density (pc/h/ln) | LOS | Sig Impact | |
|-----------------------|---------------|------------------|---------------|------------------------|-----------------|-------------------|-------------------|-------------------|-------------|------------|----------|
| 1 | | | Basic Segment | 2724 | 4800 | 0,57 | 69,7 | 19,5 | C | N/A | |
| Freeway Length | 1,0000 | FFS Delay | 0,2 | Threshold Delay | 0,0 | Avg. Speed | 69,7 | Density | 19,5 | LOS | C |

Service Volumes

Note: The maximum normally acceptable directional service volume for LOS E in Florida for this facility type and area type is 2000 veh/h/ln.

| | A | B | C | D | E |
|--------------|---|--------|--------|--------|--------|
| Lanes | Hourly Volume In Peak Direction | | | | |
| 4 | 1180 | 1960 | 2680 | 3260 | 3720 |
| 6 | 1720 | 2960 | 4020 | 4880 | 5560 |
| 8 | 2320 | 3960 | 5380 | 6500 | 7420 |
| 10 | 2880 | 4960 | 6720 | 8120 | 9280 |
| 12 | 3480 | 5900 | 8080 | 9760 | 11140 |
| Lanes | Peak Hour Volume Both Directions | | | | |
| 4 | 2140 | 3550 | 4870 | 5910 | 6760 |
| 6 | 3140 | 5370 | 7320 | 8860 | 10120 |
| 8 | 4230 | 7190 | 9780 | 11820 | 13500 |
| 10 | 5230 | 9000 | 12230 | 14770 | 16870 |
| 12 | 6320 | 10730 | 14690 | 17730 | 20250 |
| Lanes | Annual Average Daily Traffic | | | | |
| 4 | 23800 | 39400 | 54100 | 65700 | 75100 |
| 6 | 34900 | 59600 | 81400 | 98400 | 112500 |
| 8 | 47000 | 79800 | 108600 | 131400 | 150000 |
| 10 | 58100 | 100000 | 135900 | 164100 | 187400 |
| 12 | 70300 | 119200 | 163200 | 197000 | 225000 |



Enlace del Acceso Norte con la V-23 entre Puçol y su cruce con la A-23

Hipótesis 3

FREEPLAN 2012 Conceptual Planning Analysis

Project Information

| | | | | | |
|----------------------|--------------------|-----------------------|---------------------|---------------------|-------------------|
| Analyst | | Freeway Name | V-23 | Study Period | Standard K |
| Date Prepared | 13/5/2020 12:12:26 | From | Enlace Acceso Norte | Program | FREEPLAN 2012 |
| Agency | | To | inicio A-23 | Version Date | 12/12/2012 |
| Area Type | Other Urbanized | Peak Direction | Southbound | | |
| File Name | | | | | |
| User Notes | Año 2030 | | | | |

Freeway Data

| | | | | | |
|-------------|-------|---|-------|--------------------------------|------|
| AADT | 28274 | Freeway Input Volume | 1400 | Local Adjustment Factor | 1,00 |
| K | 0,09 | PHF | 0,9 | Ramp Metering Exists | No |
| D | 0,55 | Pecent Trucks Entering First Segment | 18,69 | | |

Segment Data

| Seg # | From | To | Input Type | Length (ft) | Hourly Volume (veh/h) | # Lanes | Posted Speed (mi/h) | Free-Flow Speed (mi/h) | Terrain |
|-------|------|----|---------------|-------------|-----------------------|---------|---------------------|------------------------|---------|
| 1 | | | Basic Segment | 5280 | 1400 | 2 | 65 | 70 | Level |

Time Period Independent Weaving Segment Data

| Seg # | Configuration | Short Length (ft) | # Weaving Lanes | Min. Lane Changes Freeway-Ramp | Min. Lane Changes Ramp-Freeway | Min. Lane Changes Ramp-Ramp |
|-------|---------------|-------------------|-----------------|--------------------------------|--------------------------------|-----------------------------|
| | | | | | | |

Ramp Descriptions

| Segment | Type | On-Ramp | | | | | Off-Ramp | | | | |
|---------|------|-----------------------|-----|-------|----------------------|-----|-----------------------|-----|-------|----------------------|-----|
| | | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS |
| | | | | | | | | | | | |

Toll Plaza Input Data

| Segment | Configuration | Number of Manual Lanes | Number of Coin Machine Lanes | Number of ETC-Only Lanes | | |
|---------------------|---------------------------|------------------------|------------------------------|--------------------------|---------------------|--------------------|
| Pct. Manual Payment | Pct. Coin Machine Payment | Pct. ETC-Only Payment | Manual Avg. Service Time | Coin Avg. Service Time | ETC Free-Flow Speed | Prop. Trad. Demand |
| | | | | | | |

Segment Results and LOS

| Seg # | From | To | Analysis Type | Analysis Volume (pc/h) | Capacity (pc/h) | v/c Ratio | Avg. Speed (mi/h) | Density (pc/h/ln) | LOS | Sig Impact | |
|-----------------------|---------------|------------------|---------------|------------------------|-----------------|-------------------|-------------------|-------------------|-------------|------------|----------|
| 1 | | | Basic Segment | 1701 | 4800 | 0,35 | 70,0 | 12,2 | B | N/A | |
| Freeway Length | 1,0000 | FFS Delay | 0,0 | Threshold Delay | 0,0 | Avg. Speed | 70,0 | Density | 12,2 | LOS | B |

Service Volumes

Note: The maximum normally acceptable directional service volume for LOS E in Florida for this facility type and area type is 2000 veh/h/ln.

| | A | B | C | D | E |
|--------------|---|--------|--------|--------|--------|
| Lanes | Hourly Volume In Peak Direction | | | | |
| 4 | 1180 | 1960 | 2680 | 3240 | 3680 |
| 6 | 1720 | 2960 | 4020 | 4840 | 5540 |
| 8 | 2320 | 3900 | 5380 | 6460 | 7380 |
| 10 | 2880 | 4900 | 6720 | 8080 | 9220 |
| 12 | 3480 | 5900 | 8020 | 9700 | 11060 |
| Lanes | Peak Hour Volume Both Directions | | | | |
| 4 | 2140 | 3550 | 4870 | 5880 | 6700 |
| 6 | 3140 | 5370 | 7320 | 8800 | 10070 |
| 8 | 4230 | 7100 | 9780 | 11750 | 13410 |
| 10 | 5230 | 8910 | 12230 | 14680 | 16780 |
| 12 | 6320 | 10730 | 14600 | 17620 | 20120 |
| Lanes | Annual Average Daily Traffic | | | | |
| 4 | 23800 | 39400 | 54100 | 65300 | 74500 |
| 6 | 34900 | 59600 | 81400 | 97800 | 111900 |
| 8 | 47000 | 78800 | 108600 | 130600 | 149000 |
| 10 | 58100 | 99000 | 135900 | 163100 | 186400 |
| 12 | 70300 | 119200 | 162200 | 195800 | 223600 |

FREEPLAN 2012 Conceptual Planning Analysis

Project Information

| | | | | | |
|----------------------|--------------------|-----------------------|---------------------|---------------------|-------------------|
| Analyst | | Freeway Name | V-23 | Study Period | Standard K |
| Date Prepared | 13/5/2020 12:12:26 | From | Enlace Acceso Norte | Program | FREEPLAN 2012 |
| Agency | | To | inicio A-23 | Version Date | 12/12/2012 |
| Area Type | Other Urbanized | Peak Direction | Southbound | | |
| File Name | | | | | |
| User Notes | Año 2040 | | | | |

Freeway Data

| | | | | | |
|-------------|-------|--|-------|--------------------------------|------|
| AADT | 35831 | Freeway Input Volume | 1774 | Local Adjustment Factor | 1,00 |
| K | 0,09 | PHF | 0,9 | Ramp Metering Exists | No |
| D | 0,55 | Percent Trucks Entering First Segment | 17,87 | | |

Segment Data

| Seg # | From | To | Input Type | Length (ft) | Hourly Volume (veh/h) | # Lanes | Posted Speed (mi/h) | Free-Flow Speed (mi/h) | Terrain |
|-------|------|----|---------------|-------------|-----------------------|---------|---------------------|------------------------|---------|
| 1 | | | Basic Segment | 5280 | 1774 | 2 | 65 | 70 | Level |

Time Period Independent Weaving Segment Data

| Seg # | Configuration | Short Length (ft) | # Weaving Lanes | Min. Lane Changes Freeway-Ramp | Min. Lane Changes Ramp-Freeway | Min. Lane Changes Ramp-Ramp |
|-------|---------------|-------------------|-----------------|--------------------------------|--------------------------------|-----------------------------|
| | | | | | | |

Ramp Descriptions

| Segment | Type | On-Ramp | | | | | Off-Ramp | | | | |
|---------|------|-----------------------|-----|-------|----------------------|-----|-----------------------|-----|-------|----------------------|-----|
| | | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS |
| | | | | | | | | | | | |

Toll Plaza Input Data

| Segment | Configuration | Number of Manual Lanes | Number of Coin Machine Lanes | Number of ETC-Only Lanes | | |
|----------------------------|----------------------------------|------------------------------|---------------------------------|-------------------------------|----------------------------|---------------------------|
| Pct. Manual Payment | Pct. Coin Machine Payment | Pct. ETC-Only Payment | Manual Avg. Service Time | Coin Avg. Service Time | ETC Free-Flow Speed | Prop. Trad. Demand |

Segment Results and LOS

| Seg # | From | To | Analysis Type | Analysis Volume (pc/h) | Capacity (pc/h) | v/c Ratio | Avg. Speed (mi/h) | Density (pc/h/ln) | LOS | Sig Impact | |
|-----------------------|---------------|------------------|---------------|------------------------|-----------------|-------------------|-------------------|-------------------|-------------|------------|----------|
| 1 | | | Basic Segment | 2147 | 4800 | 0,45 | 70,0 | 15,3 | B | N/A | |
| Freeway Length | 1,0000 | FFS Delay | 0,0 | Threshold Delay | 0,0 | Avg. Speed | 70,0 | Density | 15,3 | LOS | B |

Service Volumes

Note: The maximum normally acceptable directional service volume for LOS E in Florida for this facility type and area type is 2000 veh/h/ln.

| | A | B | C | D | E |
|--------------|---|--------|--------|--------|--------|
| Lanes | Hourly Volume In Peak Direction | | | | |
| 4 | 1180 | 1960 | 2680 | 3240 | 3700 |
| 6 | 1720 | 2960 | 4020 | 4860 | 5560 |
| 8 | 2320 | 3960 | 5380 | 6480 | 7400 |
| 10 | 2880 | 4900 | 6720 | 8100 | 9260 |
| 12 | 3480 | 5900 | 8080 | 9720 | 11100 |
| Lanes | Peak Hour Volume Both Directions | | | | |
| 4 | 2140 | 3550 | 4870 | 5900 | 6740 |
| 6 | 3140 | 5370 | 7320 | 8840 | 10100 |
| 8 | 4230 | 7190 | 9780 | 11790 | 13470 |
| 10 | 5230 | 8910 | 12230 | 14730 | 16830 |
| 12 | 6320 | 10730 | 14690 | 17680 | 20200 |
| Lanes | Annual Average Daily Traffic | | | | |
| 4 | 23800 | 39400 | 54100 | 65500 | 74900 |
| 6 | 34900 | 59600 | 81400 | 98200 | 112300 |
| 8 | 47000 | 79800 | 108600 | 131000 | 149600 |
| 10 | 58100 | 99000 | 135900 | 163700 | 187000 |
| 12 | 70300 | 119200 | 163200 | 196400 | 224400 |

FREEPLAN 2012 Conceptual Planning Analysis

Project Information

| | | | | | |
|----------------------|--------------------|-----------------------|---------------------|---------------------|-------------------|
| Analyst | | Freeway Name | V-23 | Study Period | Standard K |
| Date Prepared | 13/5/2020 12:12:26 | From | Enlace Acceso Norte | Program | FREEPLAN 2012 |
| Agency | | To | inicio A-23 | Version Date | 12/12/2012 |
| Area Type | Other Urbanized | Peak Direction | Southbound | | |
| File Name | | | | | |
| User Notes | Año 2050 | | | | |

Freeway Data

| | | | | | |
|-------------|-------|---|------|--------------------------------|------|
| AADT | 44901 | Freeway Input Volume | 2223 | Local Adjustment Factor | 1,00 |
| K | 0,09 | PHF | 0,9 | Ramp Metering Exists | No |
| D | 0,55 | Pecent Trucks Entering First Segment | 16,1 | | |

Segment Data

| Seg # | From | To | Input Type | Length (ft) | Hourly Volume (veh/h) | # Lanes | Posted Speed (mi/h) | Free-Flow Speed (mi/h) | Terrain |
|-------|------|----|---------------|-------------|-----------------------|---------|---------------------|------------------------|---------|
| 1 | | | Basic Segment | 5280 | 2223 | 2 | 65 | 70 | Level |

Time Period Independent Weaving Segment Data

| Seg # | Configuration | Short Length (ft) | # Weaving Lanes | Min. Lane Changes Freeway-Ramp | Min. Lane Changes Ramp-Freeway | Min. Lane Changes Ramp-Ramp |
|-------|---------------|-------------------|-----------------|--------------------------------|--------------------------------|-----------------------------|
| | | | | | | |

Ramp Descriptions

| Segment | Type | On-Ramp | | | | | Off-Ramp | | | | |
|---------|------|-----------------------|-----|-------|----------------------|-----|-----------------------|-----|-------|----------------------|-----|
| | | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS |
| | | | | | | | | | | | |

Toll Plaza Input Data

| Segment | Configuration | Number of Manual Lanes | Number of Coin Machine Lanes | Number of ETC-Only Lanes | | |
|----------------------------|----------------------------------|------------------------------|---------------------------------|-------------------------------|----------------------------|---------------------------|
| Pct. Manual Payment | Pct. Coin Machine Payment | Pct. ETC-Only Payment | Manual Avg. Service Time | Coin Avg. Service Time | ETC Free-Flow Speed | Prop. Trad. Demand |

Segment Results and LOS

| Seg # | From | To | Analysis Type | Analysis Volume (pc/h) | Capacity (pc/h) | v/c Ratio | Avg. Speed (mi/h) | Density (pc/h/ln) | LOS | Sig Impact | |
|-----------------------|---------------|------------------|---------------|------------------------|-----------------|-------------------|-------------------|-------------------|-------------|------------|----------|
| 1 | | | Basic Segment | 2669 | 4800 | 0,56 | 69,8 | 19,1 | C | N/A | |
| Freeway Length | 1,0000 | FFS Delay | 0,2 | Threshold Delay | 0,0 | Avg. Speed | 69,8 | Density | 19,1 | LOS | C |

Service Volumes

Note: The maximum normally acceptable directional service volume for LOS E in Florida for this facility type and area type is 2000 veh/h/ln.

| | A | B | C | D | E |
|--------------|---|--------|--------|--------|--------|
| Lanes | Hourly Volume In Peak Direction | | | | |
| 4 | 1180 | 2000 | 2720 | 3280 | 3740 |
| 6 | 1720 | 2960 | 4080 | 4900 | 5600 |
| 8 | 2320 | 3960 | 5420 | 6540 | 7460 |
| 10 | 2920 | 4960 | 6780 | 8180 | 9340 |
| 12 | 3480 | 5960 | 8120 | 9800 | 11200 |
| Lanes | Peak Hour Volume Both Directions | | | | |
| 4 | 2140 | 3640 | 4960 | 5950 | 6800 |
| 6 | 3140 | 5370 | 7410 | 8910 | 10180 |
| 8 | 4230 | 7190 | 9870 | 11900 | 13580 |
| 10 | 5320 | 9000 | 12320 | 14860 | 16980 |
| 12 | 6320 | 10820 | 14780 | 17820 | 20360 |
| Lanes | Annual Average Daily Traffic | | | | |
| 4 | 23800 | 40500 | 55100 | 66100 | 75500 |
| 6 | 34900 | 59600 | 82400 | 99000 | 113100 |
| 8 | 47000 | 79800 | 109600 | 132200 | 150900 |
| 10 | 59100 | 100000 | 136900 | 165100 | 188600 |
| 12 | 70300 | 120300 | 164200 | 198000 | 226200 |



A-7



Tramo 1

Hipótesis 1

FREEPLAN 2012 Conceptual Planning Analysis

Project Information

| | | | | | |
|----------------------|-------------------|-----------------------|------------|---------------------|-------------------|
| Analyst | | Freeway Name | A-7 | Study Period | Standard K |
| Date Prepared | 2/5/2020 12:57:35 | From | 1 | Program | FREEPLAN 2012 |
| Agency | | To | 2 | Version Date | 12/12/2012 |
| Area Type | Large Urbanized | Peak Direction | Southbound | | |
| File Name | | | | | |
| User Notes | Año 2025 | | | | |

Freeway Data

| | | | | | |
|-------------|-------|--|-------|--------------------------------|------|
| AADT | 89951 | Freeway Input Volume | 4453 | Local Adjustment Factor | 1,00 |
| K | 0,09 | PHF | 0,9 | Ramp Metering Exists | No |
| D | 0,55 | Percent Trucks Entering First Segment | 20,48 | | |

Segment Data

| Seg # | From | To | Input Type | Length (ft) | Hourly Volume (veh/h) | # Lanes | Posted Speed (mi/h) | Free-Flow Speed (mi/h) | Terrain |
|-------|------|----|---------------|-------------|-----------------------|---------|---------------------|------------------------|---------|
| 1 | | | Basic Segment | 5000 | 4453 | 3 | 70 | 75 | Level |

Time Period Independent Weaving Segment Data

| Seg # | Configuration | Short Length (ft) | # Weaving Lanes | Min. Lane Changes Freeway-Ramp | Min. Lane Changes Ramp-Freeway | Min. Lane Changes Ramp-Ramp |
|-------|---------------|-------------------|-----------------|--------------------------------|--------------------------------|-----------------------------|
| | | | | | | |

Ramp Descriptions

| Segment | Type | On-Ramp | | | | | Off-Ramp | | | | |
|---------|------|-----------------------|-----|-------|----------------------|-----|-----------------------|-----|-------|----------------------|-----|
| | | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS |
| | | | | | | | | | | | |

Toll Plaza Input Data

| Segment | Configuration | Number of Manual Lanes | Number of Coin Machine Lanes | Number of ETC-Only Lanes | | |
|----------------------------|----------------------------------|------------------------------|---------------------------------|-------------------------------|----------------------------|---------------------------|
| Pct. Manual Payment | Pct. Coin Machine Payment | Pct. ETC-Only Payment | Manual Avg. Service Time | Coin Avg. Service Time | ETC Free-Flow Speed | Prop. Trad. Demand |

Segment Results and LOS

| Seg # | From | To | Analysis Type | Analysis Volume (pc/h) | Capacity (pc/h) | v/c Ratio | Avg. Speed (mi/h) | Density (pc/h/ln) | LOS | Sig Impact | |
|-----------------------|---------------|------------------|---------------|------------------------|-----------------|-------------------|-------------------|-------------------|-------------|------------|----------|
| 1 | | | Basic Segment | 5455 | 7200 | 0,76 | 67,6 | 26,9 | D | N/A | |
| Freeway Length | 0,9470 | FFS Delay | 5,0 | Threshold Delay | 0,0 | Avg. Speed | 67,6 | Density | 26,9 | LOS | D |

Service Volumes

Note: The maximum normally acceptable directional service volume for LOS E in Florida for this facility type and area type is 2100 veh/h/ln.

| | A | B | C | D | E |
|--------------|---|--------|--------|--------|--------|
| Lanes | Hourly Volume In Peak Direction | | | | |
| 4 | 1220 | 2060 | 2720 | 3260 | 3680 |
| 6 | 1820 | 3100 | 4120 | 4880 | 5520 |
| 8 | 2420 | 4100 | 5480 | 6500 | 7340 |
| 10 | 3080 | 5160 | 6820 | 8120 | 9180 |
| 12 | 3680 | 6200 | 8220 | 9740 | 11020 |
| Lanes | Peak Hour Volume Both Directions | | | | |
| 4 | 2230 | 3730 | 4960 | 5910 | 6690 |
| 6 | 3320 | 5640 | 7500 | 8860 | 10030 |
| 8 | 4410 | 7460 | 9960 | 11820 | 13360 |
| 10 | 5600 | 9370 | 12410 | 14770 | 16700 |
| 12 | 6690 | 11280 | 14960 | 17710 | 20050 |
| Lanes | Annual Average Daily Traffic | | | | |
| 4 | 24800 | 41500 | 55100 | 65700 | 74300 |
| 6 | 36900 | 62700 | 83400 | 98400 | 111500 |
| 8 | 49000 | 82900 | 110700 | 131400 | 148400 |
| 10 | 62200 | 104100 | 137900 | 164100 | 185600 |
| 12 | 74300 | 125300 | 166200 | 196800 | 222800 |

FREEPLAN 2012 Conceptual Planning Analysis

Project Information

| | | | | | |
|----------------------|--------------------|-----------------------|------------|---------------------|-------------------|
| Analyst | | Freeway Name | A-7 | Study Period | Standard K |
| Date Prepared | 10/5/2020 12:31:45 | From | | Program | FREEPLAN 2012 |
| Agency | | To | | Version Date | 12/12/2012 |
| Area Type | Large Urbanized | Peak Direction | Southbound | | |
| File Name | | | | | |
| User Notes | Año 2030 | | | | |

Freeway Data

| | | | | | |
|-------------|--------|--|-------|--------------------------------|------|
| AADT | 102109 | Freeway Input Volume | 5054 | Local Adjustment Factor | 1,00 |
| K | 0,09 | PHF | 0,9 | Ramp Metering Exists | No |
| D | 0,55 | Percent Trucks Entering First Segment | 20,74 | | |

Segment Data

| Seg # | From | To | Input Type | Length (ft) | Hourly Volume (veh/h) | # Lanes | Posted Speed (mi/h) | Free-Flow Speed (mi/h) | Terrain |
|-------|------|----|---------------|-------------|-----------------------|---------|---------------------|------------------------|---------|
| 1 | | | Basic Segment | 5280 | 5054 | 3 | 70 | 75 | Level |

Time Period Independent Weaving Segment Data

| Seg # | Configuration | Short Length (ft) | # Weaving Lanes | Min. Lane Changes Freeway-Ramp | Min. Lane Changes Ramp-Freeway | Min. Lane Changes Ramp-Ramp |
|-------|---------------|-------------------|-----------------|--------------------------------|--------------------------------|-----------------------------|
| | | | | | | |

Ramp Descriptions

| Segment | Type | On-Ramp | | | | | Off-Ramp | | | | |
|---------|------|-----------------------|-----|-------|----------------------|-----|-----------------------|-----|-------|----------------------|-----|
| | | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS |
| | | | | | | | | | | | |

Toll Plaza Input Data

| Segment | Configuration | Number of Manual Lanes | Number of Coin Machine Lanes | Number of ETC-Only Lanes | | |
|---------------------|---------------------------|------------------------|------------------------------|--------------------------|---------------------|--------------------|
| Pct. Manual Payment | Pct. Coin Machine Payment | Pct. ETC-Only Payment | Manual Avg. Service Time | Coin Avg. Service Time | ETC Free-Flow Speed | Prop. Trad. Demand |
| | | | | | | |

Segment Results and LOS

| Seg # | From | To | Analysis Type | Analysis Volume (pc/h) | Capacity (pc/h) | v/c Ratio | Avg. Speed (mi/h) | Density pc/h/ln | LOS | Sig Impact | |
|-----------------------|---------------|------------------|---------------|------------------------|-----------------|-------------------|-------------------|-----------------|-------------|------------|----------|
| 1 | | | Basic Segment | 6198 | 7200 | 0,86 | 62,4 | 33,1 | D | N/A | |
| Freeway Length | 1,0000 | FFS Delay | 9,7 | Threshold Delay | 0,0 | Avg. Speed | 62,4 | Density | 33,1 | LOS | E |

Service Volumes

Note: The maximum normally acceptable directional service volume for LOS E in Florida for this facility type and area type is 2100 veh/h/ln.

| | A | B | C | D | E |
|--------------|---|--------|--------|--------|--------|
| Lanes | Hourly Volume In Peak Direction | | | | |
| 4 | 1220 | 2060 | 2720 | 3240 | 3660 |
| 6 | 1820 | 3100 | 4120 | 4880 | 5500 |
| 8 | 2420 | 4100 | 5480 | 6500 | 7340 |
| 10 | 3080 | 5160 | 6820 | 8120 | 9180 |
| 12 | 3680 | 6160 | 8220 | 9740 | 11000 |
| Lanes | Peak Hour Volume Both Directions | | | | |
| 4 | 2230 | 3730 | 4960 | 5900 | 6670 |
| 6 | 3320 | 5640 | 7500 | 8860 | 10010 |
| 8 | 4410 | 7460 | 9960 | 11800 | 13340 |
| 10 | 5600 | 9370 | 12410 | 14750 | 16690 |
| 12 | 6690 | 11190 | 14960 | 17700 | 20010 |
| Lanes | Annual Average Daily Traffic | | | | |
| 4 | 24800 | 41500 | 55100 | 65500 | 74100 |
| 6 | 36900 | 62700 | 83400 | 98400 | 111300 |
| 8 | 49000 | 82900 | 110700 | 131200 | 148200 |
| 10 | 62200 | 104100 | 137900 | 163900 | 185400 |
| 12 | 74300 | 124300 | 166200 | 196600 | 222400 |

FREEPLAN 2012 Conceptual Planning Analysis

Project Information

| | | | | | |
|----------------------|-------------------|-----------------------|------------|---------------------|-------------------|
| Analyst | | Freeway Name | A-7 | Study Period | Standard K |
| Date Prepared | 2/5/2020 12:57:35 | From | 1 | Program | FREEPLAN 2012 |
| Agency | | To | 2 | Version Date | 12/12/2012 |
| Area Type | Large Urbanized | Peak Direction | Southbound | | |
| File Name | | | | | |
| User Notes | Año 2040 | | | | |

Freeway Data

| | | | | | |
|-------------|--------|--|-------|--------------------------------|------|
| AADT | 131316 | Freeway Input Volume | 6500 | Local Adjustment Factor | 1,00 |
| K | 0,09 | PHF | 0,9 | Ramp Metering Exists | No |
| D | 0,55 | Percent Trucks Entering First Segment | 21,11 | | |

Segment Data

| Seg # | From | To | Input Type | Length (ft) | Hourly Volume (veh/h) | # Lanes | Posted Speed (mi/h) | Free-Flow Speed (mi/h) | Terrain |
|-------|------|----|---------------|-------------|-----------------------|---------|---------------------|------------------------|---------|
| 1 | | | Basic Segment | 5000 | 6500 | 3 | 70 | 75 | Level |

Time Period Independent Weaving Segment Data

| Seg # | Configuration | Short Length (ft) | # Weaving Lanes | Min. Lane Changes Freeway-Ramp | Min. Lane Changes Ramp-Freeway | Min. Lane Changes Ramp-Ramp |
|-------|---------------|-------------------|-----------------|--------------------------------|--------------------------------|-----------------------------|
| | | | | | | |

Ramp Descriptions

| Segment | Type | On-Ramp | | | | | Off-Ramp | | | | |
|---------|------|-----------------------|-----|-------|----------------------|-----|-----------------------|-----|-------|----------------------|-----|
| | | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS |
| | | | | | | | | | | | |

Toll Plaza Input Data

| Segment | Configuration | Number of Manual Lanes | Number of Coin Machine Lanes | Number of ETC-Only Lanes | | |
|---------------------|---------------------------|------------------------|------------------------------|--------------------------|---------------------|--------------------|
| Pct. Manual Payment | Pct. Coin Machine Payment | Pct. ETC-Only Payment | Manual Avg. Service Time | Coin Avg. Service Time | ETC Free-Flow Speed | Prop. Trad. Demand |
| | | | | | | |

Segment Results and LOS

| Seg # | From | To | Analysis Type | Analysis Volume (pc/h) | Capacity (pc/h) | v/c Ratio | Avg. Speed (mi/h) | Density (pc/h/ln) | LOS | Sig Impact | |
|-----------------------|---------------|------------------|---------------|------------------------|-----------------|-------------------|-------------------|-------------------|-----------|------------|----------|
| 1 | | | Basic Segment | 7984 | 7200 | 1,11 | ## | ## | F | N/A | |
| Freeway Length | 0,9470 | FFS Delay | ## | Threshold Delay | ## | Avg. Speed | ## | Density | ## | LOS | F |

Service Volumes

Note: The maximum normally acceptable directional service volume for LOS E in Florida for this facility type and area type is 2100 veh/h/ln.

| | A | B | C | D | E |
|--------------|---|--------|--------|--------|--------|
| Lanes | Hourly Volume In Peak Direction | | | | |
| 4 | 1220 | 2060 | 2720 | 3240 | 3660 |
| 6 | 1820 | 3100 | 4080 | 4860 | 5500 |
| 8 | 2420 | 4100 | 5480 | 6480 | 7320 |
| 10 | 3080 | 5160 | 6820 | 8100 | 9160 |
| 12 | 3680 | 6160 | 8180 | 9720 | 11000 |
| Lanes | Peak Hour Volume Both Directions | | | | |
| 4 | 2230 | 3730 | 4960 | 5900 | 6670 |
| 6 | 3320 | 5640 | 7410 | 8840 | 10000 |
| 8 | 4410 | 7460 | 9960 | 11790 | 13320 |
| 10 | 5600 | 9370 | 12410 | 14730 | 16650 |
| 12 | 6690 | 11190 | 14870 | 17680 | 20000 |
| Lanes | Annual Average Daily Traffic | | | | |
| 4 | 24800 | 41500 | 55100 | 65500 | 74100 |
| 6 | 36900 | 62700 | 82400 | 98200 | 111100 |
| 8 | 49000 | 82900 | 110700 | 131000 | 148000 |
| 10 | 62200 | 104100 | 137900 | 163700 | 185000 |
| 12 | 74300 | 124300 | 165200 | 196400 | 222200 |



Tramo 1

Hipótesis 2

FREEPLAN 2012 Conceptual Planning Analysis

Project Information

| | | | | | |
|----------------------|-------------------|-----------------------|------------|---------------------|-------------------|
| Analyst | | Freeway Name | A-7 | Study Period | Standard K |
| Date Prepared | 2/5/2020 12:57:35 | From | 1 | Program | FREEPLAN 2012 |
| Agency | | To | 2 | Version Date | 12/12/2012 |
| Area Type | Large Urbanized | Peak Direction | Southbound | | |
| File Name | | | | | |
| User Notes | Año 2030 | | | | |

Freeway Data

| | | | | | |
|-------------|--------|--|-------|--------------------------------|------|
| AADT | 102109 | Freeway Input Volume | 5054 | Local Adjustment Factor | 1,00 |
| K | 0,09 | PHF | 0,9 | Ramp Metering Exists | No |
| D | 0,55 | Percent Trucks Entering First Segment | 20,74 | | |

Segment Data

| Seg # | From | To | Input Type | Length (ft) | Hourly Volume (veh/h) | # Lanes | Posted Speed (mi/h) | Free-Flow Speed (mi/h) | Terrain |
|-------|------|----|---------------|-------------|-----------------------|---------|---------------------|------------------------|---------|
| 1 | | | Basic Segment | 5000 | 5054 | 3 | 70 | 75 | Level |

Time Period Independent Weaving Segment Data

| Seg # | Configuration | Short Length (ft) | # Weaving Lanes | Min. Lane Changes Freeway-Ramp | Min. Lane Changes Ramp-Freeway | Min. Lane Changes Ramp-Ramp |
|-------|---------------|-------------------|-----------------|--------------------------------|--------------------------------|-----------------------------|
| | | | | | | |

Ramp Descriptions

| Segment | Type | On-Ramp | | | | | Off-Ramp | | | | |
|---------|------|-----------------------|-----|-------|----------------------|-----|-----------------------|-----|-------|----------------------|-----|
| | | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS |
| | | | | | | | | | | | |

Toll Plaza Input Data

| Segment | Configuration | Number of Manual Lanes | Number of Coin Machine Lanes | Number of ETC-Only Lanes | | |
|---------------------|---------------------------|------------------------|------------------------------|--------------------------|---------------------|--------------------|
| Pct. Manual Payment | Pct. Coin Machine Payment | Pct. ETC-Only Payment | Manual Avg. Service Time | Coin Avg. Service Time | ETC Free-Flow Speed | Prop. Trad. Demand |
| | | | | | | |

Segment Results and LOS

| Seg # | From | To | Analysis Type | Analysis Volume (pc/h) | Capacity (pc/h) | v/c Ratio | Avg. Speed (mi/h) | Density (pc/h/ln) | LOS | Sig Impact | |
|-----------------------|---------------|------------------|---------------|------------------------|-----------------|-------------------|-------------------|-------------------|-------------|------------|----------|
| 1 | | | Basic Segment | 6198 | 7200 | 0,86 | 62,4 | 33,1 | D | N/A | |
| Freeway Length | 0,9470 | FFS Delay | 9,2 | Threshold Delay | 0,0 | Avg. Speed | 62,4 | Density | 33,1 | LOS | E |

Service Volumes

Note: The maximum normally acceptable directional service volume for LOS E in Florida for this facility type and area type is 2100 veh/h/ln.

| | A | B | C | D | E |
|--------------|---|--------|--------|--------|--------|
| Lanes | Hourly Volume In Peak Direction | | | | |
| 4 | 1220 | 2060 | 2720 | 3240 | 3660 |
| 6 | 1820 | 3100 | 4120 | 4880 | 5500 |
| 8 | 2420 | 4100 | 5480 | 6500 | 7340 |
| 10 | 3080 | 5160 | 6820 | 8120 | 9180 |
| 12 | 3680 | 6160 | 8220 | 9740 | 11000 |
| Lanes | Peak Hour Volume Both Directions | | | | |
| 4 | 2230 | 3730 | 4960 | 5900 | 6670 |
| 6 | 3320 | 5640 | 7500 | 8860 | 10010 |
| 8 | 4410 | 7460 | 9960 | 11800 | 13340 |
| 10 | 5600 | 9370 | 12410 | 14750 | 16690 |
| 12 | 6690 | 11190 | 14960 | 17700 | 20010 |
| Lanes | Annual Average Daily Traffic | | | | |
| 4 | 24800 | 41500 | 55100 | 65500 | 74100 |
| 6 | 36900 | 62700 | 83400 | 98400 | 111300 |
| 8 | 49000 | 82900 | 110700 | 131200 | 148200 |
| 10 | 62200 | 104100 | 137900 | 163900 | 185400 |
| 12 | 74300 | 124300 | 166200 | 196600 | 222400 |



Tramo 1

Hipótesis 3

FREEPLAN 2012 Conceptual Planning Analysis

Project Information

| | | | | | |
|----------------------|--------------------|-----------------------|------------|---------------------|-------------------|
| Analyst | | Freeway Name | A-7 | Study Period | Standard K |
| Date Prepared | 10/5/2020 12:31:45 | From | | Program | FREEPLAN 2012 |
| Agency | | To | | Version Date | 12/12/2012 |
| Area Type | Large Urbanized | Peak Direction | Southbound | | |
| File Name | | | | | |
| User Notes | Año 2025 | | | | |

Freeway Data

| | | | | | |
|-------------|-------|--|-------|--------------------------------|------|
| AADT | 89951 | Freeway Input Volume | 4453 | Local Adjustment Factor | 1,00 |
| K | 0,09 | PHF | 0,9 | Ramp Metering Exists | No |
| D | 0,55 | Percent Trucks Entering First Segment | 20,48 | | |

Segment Data

| Seg # | From | To | Input Type | Length (ft) | Hourly Volume (veh/h) | # Lanes | Posted Speed (mi/h) | Free-Flow Speed (mi/h) | Terrain |
|-------|------|----|---------------|-------------|-----------------------|---------|---------------------|------------------------|---------|
| 1 | | | Basic Segment | 5280 | 4453 | 3 | 70 | 75 | Level |

Time Period Independent Weaving Segment Data

| Seg # | Configuration | Short Length (ft) | # Weaving Lanes | Min. Lane Changes Freeway-Ramp | Min. Lane Changes Ramp-Freeway | Min. Lane Changes Ramp-Ramp |
|-------|---------------|-------------------|-----------------|--------------------------------|--------------------------------|-----------------------------|
| | | | | | | |

Ramp Descriptions

| Segment | Type | On-Ramp | | | | | Off-Ramp | | | | |
|---------|------|-----------------------|-----|-------|----------------------|-----|-----------------------|-----|-------|----------------------|-----|
| | | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS |
| | | | | | | | | | | | |

Toll Plaza Input Data

| Segment | Configuration | Number of Manual Lanes | Number of Coin Machine Lanes | Number of ETC-Only Lanes | | |
|---------------------|---------------------------|------------------------|------------------------------|--------------------------|---------------------|--------------------|
| Pct. Manual Payment | Pct. Coin Machine Payment | Pct. ETC-Only Payment | Manual Avg. Service Time | Coin Avg. Service Time | ETC Free-Flow Speed | Prop. Trad. Demand |
| | | | | | | |

Segment Results and LOS

| Seg # | From | To | Analysis Type | Analysis Volume (pc/h) | Capacity (pc/h) | v/c Ratio | Avg. Speed (mi/h) | Density (pc/h/ln) | LOS | Sig Impact | |
|-----------------------|---------------|------------------|---------------|------------------------|-----------------|-------------------|-------------------|-------------------|-------------|------------|----------|
| 1 | | | Basic Segment | 5455 | 7200 | 0,76 | 67,6 | 26,9 | D | N/A | |
| Freeway Length | 1,0000 | FFS Delay | 5,3 | Threshold Delay | 0,0 | Avg. Speed | 67,6 | Density | 26,9 | LOS | D |

Service Volumes

Note: The maximum normally acceptable directional service volume for LOS E in Florida for this facility type and area type is 2100 veh/h/ln.

| Lanes | A | B | C | D | E |
|---|-------|--------|--------|--------|--------|
| Hourly Volume In Peak Direction | | | | | |
| 4 | 1220 | 2060 | 2720 | 3260 | 3680 |
| 6 | 1820 | 3100 | 4120 | 4880 | 5520 |
| 8 | 2420 | 4100 | 5480 | 6500 | 7340 |
| 10 | 3080 | 5160 | 6820 | 8120 | 9180 |
| 12 | 3680 | 6200 | 8220 | 9740 | 11020 |
| Peak Hour Volume Both Directions | | | | | |
| 4 | 2230 | 3730 | 4960 | 5910 | 6690 |
| 6 | 3320 | 5640 | 7500 | 8860 | 10030 |
| 8 | 4410 | 7460 | 9960 | 11820 | 13360 |
| 10 | 5600 | 9370 | 12410 | 14770 | 16700 |
| 12 | 6690 | 11280 | 14960 | 17710 | 20050 |
| Annual Average Daily Traffic | | | | | |
| 4 | 24800 | 41500 | 55100 | 65700 | 74300 |
| 6 | 36900 | 62700 | 83400 | 98400 | 111500 |
| 8 | 49000 | 82900 | 110700 | 131400 | 148400 |
| 10 | 62200 | 104100 | 137900 | 164100 | 185600 |
| 12 | 74300 | 125300 | 166200 | 196800 | 222800 |

FREEPLAN 2012 Conceptual Planning Analysis

Project Information

| | | | | | |
|----------------------|--------------------|-----------------------|------------|---------------------|-------------------|
| Analyst | | Freeway Name | A-7 | Study Period | Standard K |
| Date Prepared | 10/5/2020 12:31:45 | From | | Program | FREEPLAN 2012 |
| Agency | | To | | Version Date | 12/12/2012 |
| Area Type | Large Urbanized | Peak Direction | Southbound | | |
| File Name | | | | | |
| User Notes | Año 2030 | | | | |

Freeway Data

| | | | | | |
|-------------|--------|--|-------|--------------------------------|------|
| AADT | 102109 | Freeway Input Volume | 5054 | Local Adjustment Factor | 1,00 |
| K | 0,09 | PHF | 0,9 | Ramp Metering Exists | No |
| D | 0,55 | Percent Trucks Entering First Segment | 20,74 | | |

Segment Data

| Seg # | From | To | Input Type | Length (ft) | Hourly Volume (veh/h) | # Lanes | Posted Speed (mi/h) | Free-Flow Speed (mi/h) | Terrain |
|-------|------|----|---------------|-------------|-----------------------|---------|---------------------|------------------------|---------|
| 1 | | | Basic Segment | 5280 | 5054 | 3 | 70 | 75 | Level |

Time Period Independent Weaving Segment Data

| Seg # | Configuration | Short Length (ft) | # Weaving Lanes | Min. Lane Changes Freeway-Ramp | Min. Lane Changes Ramp-Freeway | Min. Lane Changes Ramp-Ramp |
|-------|---------------|-------------------|-----------------|--------------------------------|--------------------------------|-----------------------------|
| | | | | | | |

Ramp Descriptions

| Segment | Type | On-Ramp | | | | | Off-Ramp | | | | |
|---------|------|-----------------------|-----|-------|----------------------|-----|-----------------------|-----|-------|----------------------|-----|
| | | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS |
| | | | | | | | | | | | |

Toll Plaza Input Data

| Segment | Configuration | Number of Manual Lanes | Number of Coin Machine Lanes | Number of ETC-Only Lanes | | |
|---------------------|---------------------------|------------------------|------------------------------|--------------------------|---------------------|--------------------|
| Pct. Manual Payment | Pct. Coin Machine Payment | Pct. ETC-Only Payment | Manual Avg. Service Time | Coin Avg. Service Time | ETC Free-Flow Speed | Prop. Trad. Demand |
| | | | | | | |

Segment Results and LOS

| Seg # | From | To | Analysis Type | Analysis Volume (pc/h) | Capacity (pc/h) | v/c Ratio | Avg. Speed (mi/h) | Density (pc/h/ln) | LOS | Sig Impact | |
|-----------------------|---------------|------------------|---------------|------------------------|-----------------|-------------------|-------------------|-------------------|-------------|------------|----------|
| 1 | | | Basic Segment | 6198 | 7200 | 0,86 | 62,4 | 33,1 | D | N/A | |
| Freeway Length | 1,0000 | FFS Delay | 9,7 | Threshold Delay | 0,0 | Avg. Speed | 62,4 | Density | 33,1 | LOS | E |

Service Volumes

Note: The maximum normally acceptable directional service volume for LOS E in Florida for this facility type and area type is 2100 veh/h/ln.

| | A | B | C | D | E |
|--------------|---|--------|--------|--------|--------|
| Lanes | Hourly Volume In Peak Direction | | | | |
| 4 | 1220 | 2060 | 2720 | 3240 | 3660 |
| 6 | 1820 | 3100 | 4120 | 4880 | 5500 |
| 8 | 2420 | 4100 | 5480 | 6500 | 7340 |
| 10 | 3080 | 5160 | 6820 | 8120 | 9180 |
| 12 | 3680 | 6160 | 8220 | 9740 | 11000 |
| Lanes | Peak Hour Volume Both Directions | | | | |
| 4 | 2230 | 3730 | 4960 | 5900 | 6670 |
| 6 | 3320 | 5640 | 7500 | 8860 | 10010 |
| 8 | 4410 | 7460 | 9960 | 11800 | 13340 |
| 10 | 5600 | 9370 | 12410 | 14750 | 16690 |
| 12 | 6690 | 11190 | 14960 | 17700 | 20010 |
| Lanes | Annual Average Daily Traffic | | | | |
| 4 | 24800 | 41500 | 55100 | 65500 | 74100 |
| 6 | 36900 | 62700 | 83400 | 98400 | 111300 |
| 8 | 49000 | 82900 | 110700 | 131200 | 148200 |
| 10 | 62200 | 104100 | 137900 | 163900 | 185400 |
| 12 | 74300 | 124300 | 166200 | 196600 | 222400 |

FREEPLAN 2012 Conceptual Planning Analysis

Project Information

| | | | | | |
|----------------------|--------------------|-----------------------|------------|---------------------|-------------------|
| Analyst | | Freeway Name | A-7 | Study Period | Standard K |
| Date Prepared | 10/5/2020 12:31:45 | From | | Program | FREEPLAN 2012 |
| Agency | | To | | Version Date | 12/12/2012 |
| Area Type | Large Urbanized | Peak Direction | Southbound | | |
| File Name | | | | | |
| User Notes | Año 2040 | | | | |

Freeway Data

| | | | | | |
|-------------|--------|--|-------|--------------------------------|------|
| AADT | 131316 | Freeway Input Volume | 6500 | Local Adjustment Factor | 1,00 |
| K | 0,09 | PHF | 0,9 | Ramp Metering Exists | No |
| D | 0,55 | Percent Trucks Entering First Segment | 21,11 | | |

Segment Data

| Seg # | From | To | Input Type | Length (ft) | Hourly Volume (veh/h) | # Lanes | Posted Speed (mi/h) | Free-Flow Speed (mi/h) | Terrain |
|-------|------|----|---------------|-------------|-----------------------|---------|---------------------|------------------------|---------|
| 1 | | | Basic Segment | 5280 | 6500 | 3 | 70 | 75 | Level |

Time Period Independent Weaving Segment Data

| Seg # | Configuration | Short Length (ft) | # Weaving Lanes | Min. Lane Changes Freeway-Ramp | Min. Lane Changes Ramp-Freeway | Min. Lane Changes Ramp-Ramp |
|-------|---------------|-------------------|-----------------|--------------------------------|--------------------------------|-----------------------------|
| | | | | | | |

Ramp Descriptions

| Segment | Type | On-Ramp | | | | | Off-Ramp | | | | |
|---------|------|-----------------------|-----|-------|----------------------|-----|-----------------------|-----|-------|----------------------|-----|
| | | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS |
| | | | | | | | | | | | |

Toll Plaza Input Data

| Segment | Configuration | Number of Manual Lanes | Number of Coin Machine Lanes | Number of ETC-Only Lanes | | |
|---------------------|---------------------------|------------------------|------------------------------|--------------------------|---------------------|--------------------|
| Pct. Manual Payment | Pct. Coin Machine Payment | Pct. ETC-Only Payment | Manual Avg. Service Time | Coin Avg. Service Time | ETC Free-Flow Speed | Prop. Trad. Demand |
| | | | | | | |

Segment Results and LOS

| Seg # | From | To | Analysis Type | Analysis Volume (pc/h) | Capacity (pc/h) | v/c Ratio | Avg. Speed (mi/h) | Density (pc/h/ln) | LOS | Sig Impact | |
|-----------------------|---------------|------------------|---------------|------------------------|-----------------|-------------------|-------------------|-------------------|-----------|------------|----------|
| 1 | | | Basic Segment | 7984 | 7200 | 1,11 | ## | ## | F | N/A | |
| Freeway Length | 1,0000 | FFS Delay | ## | Threshold Delay | ## | Avg. Speed | ## | Density | ## | LOS | F |

Service Volumes

Note: The maximum normally acceptable directional service volume for LOS E in Florida for this facility type and area type is 2100 veh/h/ln.

| | A | B | C | D | E |
|--------------|---|--------|--------|--------|--------|
| Lanes | Hourly Volume In Peak Direction | | | | |
| 4 | 1220 | 2060 | 2720 | 3240 | 3660 |
| 6 | 1820 | 3100 | 4080 | 4860 | 5500 |
| 8 | 2420 | 4100 | 5480 | 6480 | 7320 |
| 10 | 3080 | 5160 | 6820 | 8100 | 9160 |
| 12 | 3680 | 6160 | 8180 | 9720 | 11000 |
| Lanes | Peak Hour Volume Both Directions | | | | |
| 4 | 2230 | 3730 | 4960 | 5900 | 6670 |
| 6 | 3320 | 5640 | 7410 | 8840 | 10000 |
| 8 | 4410 | 7460 | 9960 | 11790 | 13320 |
| 10 | 5600 | 9370 | 12410 | 14730 | 16650 |
| 12 | 6690 | 11190 | 14870 | 17680 | 20000 |
| Lanes | Annual Average Daily Traffic | | | | |
| 4 | 24800 | 41500 | 55100 | 65500 | 74100 |
| 6 | 36900 | 62700 | 82400 | 98200 | 111100 |
| 8 | 49000 | 82900 | 110700 | 131000 | 148000 |
| 10 | 62200 | 104100 | 137900 | 163700 | 185000 |
| 12 | 74300 | 124300 | 165200 | 196400 | 222200 |



Tramo 2

Hipótesis 1

FREEPLAN 2012 Conceptual Planning Analysis

Project Information

| | | | | | |
|----------------------|-------------------|-----------------------|------------|---------------------|-------------------|
| Analyst | | Freeway Name | A-7 | Study Period | Standard K |
| Date Prepared | 2/5/2020 12:57:35 | From | 1 | Program | FREEPLAN 2012 |
| Agency | | To | 2 | Version Date | 12/12/2012 |
| Area Type | Large Urbanized | Peak Direction | Southbound | | |
| File Name | | | | | |
| User Notes | Año 2025 | | | | |

Freeway Data

| | | | | | |
|-------------|-------|--|-------|--------------------------------|------|
| AADT | 74547 | Freeway Input Volume | 3690 | Local Adjustment Factor | 1,00 |
| K | 0,09 | PHF | 0,9 | Ramp Metering Exists | No |
| D | 0,55 | Percent Trucks Entering First Segment | 12,05 | | |

Segment Data

| Seg # | From | To | Input Type | Length (ft) | Hourly Volume (veh/h) | # Lanes | Posted Speed (mi/h) | Free-Flow Speed (mi/h) | Terrain |
|-------|------|----|---------------|-------------|-----------------------|---------|---------------------|------------------------|---------|
| 1 | | | Basic Segment | 5000 | 3690 | 3 | 70 | 75 | Level |

Time Period Independent Weaving Segment Data

| Seg # | Configuration | Short Length (ft) | # Weaving Lanes | Min. Lane Changes Freeway-Ramp | Min. Lane Changes Ramp-Freeway | Min. Lane Changes Ramp-Ramp |
|-------|---------------|-------------------|-----------------|--------------------------------|--------------------------------|-----------------------------|
| | | | | | | |

Ramp Descriptions

| Segment | Type | On-Ramp | | | | | Off-Ramp | | | | |
|---------|------|-----------------------|-----|-------|----------------------|-----|-----------------------|-----|-------|----------------------|-----|
| | | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS |
| | | | | | | | | | | | |

Toll Plaza Input Data

| Segment | Configuration | Number of Manual Lanes | Number of Coin Machine Lanes | Number of ETC-Only Lanes | | |
|----------------------------|----------------------------------|------------------------------|---------------------------------|-------------------------------|----------------------------|---------------------------|
| Pct. Manual Payment | Pct. Coin Machine Payment | Pct. ETC-Only Payment | Manual Avg. Service Time | Coin Avg. Service Time | ETC Free-Flow Speed | Prop. Trad. Demand |

Segment Results and LOS

| Seg # | From | To | Analysis Type | Analysis Volume (pc/h) | Capacity (pc/h) | v/c Ratio | Avg. Speed (mi/h) | Density (pc/h/ln) | LOS | Sig Impact | |
|-----------------------|---------------|------------------|---------------|------------------------|-----------------|-------------------|-------------------|-------------------|-------------|------------|----------|
| 1 | | | Basic Segment | 4347 | 7200 | 0,60 | 72,8 | 19,9 | C | N/A | |
| Freeway Length | 0,9470 | FFS Delay | 1,4 | Threshold Delay | 0,0 | Avg. Speed | 72,8 | Density | 19,9 | LOS | C |

Service Volumes

Note: The maximum normally acceptable directional service volume for LOS E in Florida for this facility type and area type is 2100 veh/h/ln.

| | A | B | C | D | E |
|--------------|---|--------|--------|--------|--------|
| Lanes | Hourly Volume In Peak Direction | | | | |
| 4 | 1280 | 2160 | 2820 | 3380 | 3820 |
| 6 | 1920 | 3200 | 4280 | 5080 | 5720 |
| 8 | 2520 | 4300 | 5680 | 6760 | 7640 |
| 10 | 3180 | 5360 | 7120 | 8440 | 9560 |
| 12 | 3820 | 6460 | 8520 | 10140 | 11460 |
| Lanes | Peak Hour Volume Both Directions | | | | |
| 4 | 2320 | 3910 | 5140 | 6150 | 6960 |
| 6 | 3500 | 5820 | 7780 | 9220 | 10410 |
| 8 | 4600 | 7820 | 10320 | 12280 | 13900 |
| 10 | 5780 | 9730 | 12960 | 15350 | 17380 |
| 12 | 6960 | 11730 | 15500 | 18420 | 20850 |
| Lanes | Annual Average Daily Traffic | | | | |
| 4 | 25800 | 43500 | 57100 | 68300 | 77300 |
| 6 | 38900 | 64700 | 86400 | 102500 | 115700 |
| 8 | 51100 | 86900 | 114700 | 136400 | 154500 |
| 10 | 64200 | 108100 | 144000 | 170600 | 193100 |
| 12 | 77300 | 130400 | 172300 | 204700 | 231700 |

FREEPLAN 2012 Conceptual Planning Analysis

Project Information

| | | | | | |
|----------------------|-------------------|-----------------------|------------|---------------------|-------------------|
| Analyst | | Freeway Name | A-7 | Study Period | Standard K |
| Date Prepared | 2/5/2020 12:57:35 | From | 1 | Program | FREEPLAN 2012 |
| Agency | | To | 2 | Version Date | 12/12/2012 |
| Area Type | Large Urbanized | Peak Direction | Southbound | | |
| File Name | | | | | |
| User Notes | Año 2030 | | | | |

Freeway Data

| | | | | | |
|-------------|-------|---|------|--------------------------------|------|
| AADT | 84681 | Freeway Input Volume | 4192 | Local Adjustment Factor | 1,00 |
| K | 0,09 | PHF | 0,9 | Ramp Metering Exists | No |
| D | 0,55 | Pecent Trucks Entering First Segment | 12,4 | | |

Segment Data

| Seg # | From | To | Input Type | Length (ft) | Hourly Volume (veh/h) | # Lanes | Posted Speed (mi/h) | Free-Flow Speed (mi/h) | Terrain |
|-------|------|----|---------------|-------------|-----------------------|---------|---------------------|------------------------|---------|
| 1 | | | Basic Segment | 5000 | 4192 | 3 | 70 | 75 | Level |

Time Period Independent Weaving Segment Data

| Seg # | Configuration | Short Length (ft) | # Weaving Lanes | Min. Lane Changes Freeway-Ramp | Min. Lane Changes Ramp-Freeway | Min. Lane Changes Ramp-Ramp |
|-------|---------------|-------------------|-----------------|--------------------------------|--------------------------------|-----------------------------|
| | | | | | | |

Ramp Descriptions

| Segment | Type | On-Ramp | | | | | Off-Ramp | | | | |
|---------|------|-----------------------|-----|-------|----------------------|-----|-----------------------|-----|-------|----------------------|-----|
| | | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS |
| | | | | | | | | | | | |

Toll Plaza Input Data

| Segment | Configuration | Number of Manual Lanes | Number of Coin Machine Lanes | Number of ETC-Only Lanes | | |
|---------------------|---------------------------|------------------------|------------------------------|--------------------------|---------------------|--------------------|
| Pct. Manual Payment | Pct. Coin Machine Payment | Pct. ETC-Only Payment | Manual Avg. Service Time | Coin Avg. Service Time | ETC Free-Flow Speed | Prop. Trad. Demand |
| | | | | | | |

Segment Results and LOS

| Seg # | From | To | Analysis Type | Analysis Volume (pc/h) | Capacity (pc/h) | v/c Ratio | Avg. Speed (mi/h) | Density (pc/h/ln) | LOS | Sig Impact | |
|-----------------------|---------------|------------------|---------------|------------------------|-----------------|-------------------|-------------------|-------------------|-------------|------------|----------|
| 1 | | | Basic Segment | 4947 | 7200 | 0,69 | 70,3 | 23,4 | C | N/A | |
| Freeway Length | 0,9470 | FFS Delay | 3,0 | Threshold Delay | 0,0 | Avg. Speed | 70,3 | Density | 23,4 | LOS | C |

Service Volumes

Note: The maximum normally acceptable directional service volume for LOS E in Florida for this facility type and area type is 2100 veh/h/ln.

| | A | B | C | D | E |
|--------------|---|--------|--------|--------|--------|
| Lanes | Hourly Volume In Peak Direction | | | | |
| 4 | 1280 | 2160 | 2820 | 3380 | 3820 |
| 6 | 1920 | 3200 | 4280 | 5060 | 5720 |
| 8 | 2520 | 4300 | 5680 | 6740 | 7620 |
| 10 | 3180 | 5360 | 7120 | 8440 | 9540 |
| 12 | 3820 | 6400 | 8520 | 10120 | 11440 |
| Lanes | Peak Hour Volume Both Directions | | | | |
| 4 | 2320 | 3910 | 5140 | 6130 | 6940 |
| 6 | 3500 | 5820 | 7780 | 9200 | 10410 |
| 8 | 4600 | 7820 | 10320 | 12260 | 13870 |
| 10 | 5780 | 9730 | 12960 | 15330 | 17340 |
| 12 | 6960 | 11640 | 15500 | 18390 | 20810 |
| Lanes | Annual Average Daily Traffic | | | | |
| 4 | 25800 | 43500 | 57100 | 68100 | 77100 |
| 6 | 38900 | 64700 | 86400 | 102300 | 115700 |
| 8 | 51100 | 86900 | 114700 | 136200 | 154100 |
| 10 | 64200 | 108100 | 144000 | 170400 | 192700 |
| 12 | 77300 | 129300 | 172300 | 204300 | 231300 |

FREEPLAN 2012 Conceptual Planning Analysis

Project Information

| | | | | | |
|----------------------|-------------------|-----------------------|------------|---------------------|-------------------|
| Analyst | | Freeway Name | A-7 | Study Period | Standard K |
| Date Prepared | 2/5/2020 12:57:35 | From | 1 | Program | FREEPLAN 2012 |
| Agency | | To | 2 | Version Date | 12/12/2012 |
| Area Type | Large Urbanized | Peak Direction | Southbound | | |
| File Name | | | | | |
| User Notes | Año 2040 | | | | |

Freeway Data

| | | | | | |
|-------------|--------|--|-------|--------------------------------|------|
| AADT | 109006 | Freeway Input Volume | 5396 | Local Adjustment Factor | 1,00 |
| K | 0,09 | PHF | 0,9 | Ramp Metering Exists | No |
| D | 0,55 | Percent Trucks Entering First Segment | 12,88 | | |

Segment Data

| Seg # | From | To | Input Type | Length (ft) | Hourly Volume (veh/h) | # Lanes | Posted Speed (mi/h) | Free-Flow Speed (mi/h) | Terrain |
|-------|------|----|---------------|-------------|-----------------------|---------|---------------------|------------------------|---------|
| 1 | | | Basic Segment | 5000 | 5396 | 3 | 70 | 75 | Level |

Time Period Independent Weaving Segment Data

| Seg # | Configuration | Short Length (ft) | # Weaving Lanes | Min. Lane Changes Freeway-Ramp | Min. Lane Changes Ramp-Freeway | Min. Lane Changes Ramp-Ramp |
|-------|---------------|-------------------|-----------------|--------------------------------|--------------------------------|-----------------------------|
| | | | | | | |

Ramp Descriptions

| Segment | Type | On-Ramp | | | | | Off-Ramp | | | | |
|---------|------|-----------------------|-----|-------|----------------------|-----|-----------------------|-----|-------|----------------------|-----|
| | | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS |
| | | | | | | | | | | | |

Toll Plaza Input Data

| Segment | Configuration | Number of Manual Lanes | Number of Coin Machine Lanes | Number of ETC-Only Lanes | | |
|---------------------|---------------------------|------------------------|------------------------------|--------------------------|---------------------|--------------------|
| Pct. Manual Payment | Pct. Coin Machine Payment | Pct. ETC-Only Payment | Manual Avg. Service Time | Coin Avg. Service Time | ETC Free-Flow Speed | Prop. Trad. Demand |
| | | | | | | |

Segment Results and LOS

| Seg # | From | To | Analysis Type | Analysis Volume (pc/h) | Capacity (pc/h) | v/c Ratio | Avg. Speed (mi/h) | Density (pc/h/ln) | LOS | Sig Impact | |
|-----------------------|---------------|------------------|---------------|------------------------|-----------------|-------------------|-------------------|-------------------|-------------|------------|----------|
| 1 | | | Basic Segment | 6382 | 7200 | 0,89 | 60,9 | 34,9 | D | N/A | |
| Freeway Length | 0,9470 | FFS Delay | 10,5 | Threshold Delay | 1,1 | Avg. Speed | 60,9 | Density | 34,9 | LOS | E |

Service Volumes

Note: The maximum normally acceptable directional service volume for LOS E in Florida for this facility type and area type is 2100 veh/h/ln.

| | A | B | C | D | E |
|--------------|---|--------|--------|--------|--------|
| Lanes | Hourly Volume In Peak Direction | | | | |
| 4 | 1280 | 2160 | 2820 | 3360 | 3800 |
| 6 | 1920 | 3200 | 4280 | 5060 | 5700 |
| 8 | 2520 | 4260 | 5680 | 6740 | 7620 |
| 10 | 3180 | 5360 | 7080 | 8420 | 9520 |
| 12 | 3820 | 6400 | 8520 | 10100 | 11420 |
| Lanes | Peak Hour Volume Both Directions | | | | |
| 4 | 2320 | 3910 | 5140 | 6110 | 6920 |
| 6 | 3500 | 5820 | 7780 | 9190 | 10380 |
| 8 | 4600 | 7730 | 10320 | 12240 | 13850 |
| 10 | 5780 | 9730 | 12870 | 15300 | 17300 |
| 12 | 6960 | 11640 | 15500 | 18350 | 20760 |
| Lanes | Annual Average Daily Traffic | | | | |
| 4 | 25800 | 43500 | 57100 | 67900 | 76900 |
| 6 | 38900 | 64700 | 86400 | 102100 | 115300 |
| 8 | 51100 | 85900 | 114700 | 136000 | 153900 |
| 10 | 64200 | 108100 | 143000 | 169900 | 192300 |
| 12 | 77300 | 129300 | 172300 | 203900 | 230700 |

FREEPLAN 2012 Conceptual Planning Analysis

Project Information

| | | | | | |
|----------------------|--------------------|-----------------------|------------|---------------------|-------------------|
| Analyst | | Freeway Name | A-7 | Study Period | Standard K |
| Date Prepared | 10/5/2020 12:31:45 | From | | Program | FREEPLAN 2012 |
| Agency | | To | | Version Date | 12/12/2012 |
| Area Type | Large Urbanized | Peak Direction | Southbound | | |
| File Name | | | | | |
| User Notes | Año 2050 | | | | |

Freeway Data

| | | | | | |
|-------------|--------|--|-------|--------------------------------|------|
| AADT | 140292 | Freeway Input Volume | 6944 | Local Adjustment Factor | 1,00 |
| K | 0,09 | PHF | 0,9 | Ramp Metering Exists | No |
| D | 0,55 | Percent Trucks Entering First Segment | 13,35 | | |

Segment Data

| Seg # | From | To | Input Type | Length (ft) | Hourly Volume (veh/h) | # Lanes | Posted Speed (mi/h) | Free-Flow Speed (mi/h) | Terrain |
|-------|------|----|---------------|-------------|-----------------------|---------|---------------------|------------------------|---------|
| 1 | | | Basic Segment | 5280 | 6944 | 3 | 70 | 75 | Level |

Time Period Independent Weaving Segment Data

| Seg # | Configuration | Short Length (ft) | # Weaving Lanes | Min. Lane Changes Freeway-Ramp | Min. Lane Changes Ramp-Freeway | Min. Lane Changes Ramp-Ramp |
|-------|---------------|-------------------|-----------------|--------------------------------|--------------------------------|-----------------------------|
| | | | | | | |

Ramp Descriptions

| Segment | Type | On-Ramp | | | | | Off-Ramp | | | | |
|---------|------|-----------------------|-----|-------|----------------------|-----|-----------------------|-----|-------|----------------------|-----|
| | | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS |
| | | | | | | | | | | | |

Toll Plaza Input Data

| Segment | Configuration | Number of Manual Lanes | Number of Coin Machine Lanes | Number of ETC-Only Lanes | | |
|---------------------|---------------------------|------------------------|------------------------------|--------------------------|---------------------|--------------------|
| Pct. Manual Payment | Pct. Coin Machine Payment | Pct. ETC-Only Payment | Manual Avg. Service Time | Coin Avg. Service Time | ETC Free-Flow Speed | Prop. Trad. Demand |
| | | | | | | |

Segment Results and LOS

| Seg # | From | To | Analysis Type | Analysis Volume (pc/h) | Capacity (pc/h) | v/c Ratio | Avg. Speed (mi/h) | Density (pc/h/ln) | LOS | Sig Impact | |
|-----------------------|---------------|------------------|---------------|------------------------|-----------------|-------------------|-------------------|-------------------|-----------|------------|----------|
| 1 | | | Basic Segment | 8231 | 7200 | 1,14 | ## | ## | F | N/A | |
| Freeway Length | 1,0000 | FFS Delay | ## | Threshold Delay | ## | Avg. Speed | ## | Density | ## | LOS | F |

Service Volumes

Note: The maximum normally acceptable directional service volume for LOS E in Florida for this facility type and area type is 2100 veh/h/ln.

| | A | B | C | D | E |
|--------------|---|--------|--------|--------|--------|
| Lanes | Hourly Volume In Peak Direction | | | | |
| 4 | 1280 | 2160 | 2820 | 3360 | 3800 |
| 6 | 1880 | 3200 | 4220 | 5040 | 5700 |
| 8 | 2520 | 4260 | 5680 | 6720 | 7600 |
| 10 | 3180 | 5300 | 7080 | 8400 | 9500 |
| 12 | 3780 | 6400 | 8480 | 10080 | 11400 |
| Lanes | Peak Hour Volume Both Directions | | | | |
| 4 | 2320 | 3910 | 5140 | 6110 | 6900 |
| 6 | 3410 | 5820 | 7690 | 9170 | 10360 |
| 8 | 4600 | 7730 | 10320 | 12200 | 13810 |
| 10 | 5780 | 9640 | 12870 | 15260 | 17270 |
| 12 | 6870 | 11640 | 15410 | 18310 | 20720 |
| Lanes | Annual Average Daily Traffic | | | | |
| 4 | 25800 | 43500 | 57100 | 67900 | 76700 |
| 6 | 37900 | 64700 | 85400 | 101900 | 115100 |
| 8 | 51100 | 85900 | 114700 | 135600 | 153500 |
| 10 | 64200 | 107100 | 143000 | 169500 | 191900 |
| 12 | 76300 | 129300 | 171300 | 203500 | 230300 |



Tramo 2

Hipótesis 3

FREEPLAN 2012 Conceptual Planning Analysis

Project Information

| | | | | | |
|----------------------|--------------------|-----------------------|------------|---------------------|-------------------|
| Analyst | | Freeway Name | A-7 | Study Period | Standard K |
| Date Prepared | 10/5/2020 12:31:45 | From | | Program | FREEPLAN 2012 |
| Agency | | To | | Version Date | 12/12/2012 |
| Area Type | Large Urbanized | Peak Direction | Southbound | | |
| File Name | | | | | |
| User Notes | Año 2025 | | | | |

Freeway Data

| | | | | | |
|-------------|-------|---|-------|--------------------------------|------|
| AADT | 74547 | Freeway Input Volume | 3690 | Local Adjustment Factor | 1,00 |
| K | 0,09 | PHF | 0,9 | Ramp Metering Exists | No |
| D | 0,55 | Pecent Trucks Entering First Segment | 12,05 | | |

Segment Data

| Seg # | From | To | Input Type | Length (ft) | Hourly Volume (veh/h) | # Lanes | Posted Speed (mi/h) | Free-Flow Speed (mi/h) | Terrain |
|-------|------|----|---------------|-------------|-----------------------|---------|---------------------|------------------------|---------|
| 1 | | | Basic Segment | 5280 | 3690 | 3 | 70 | 75 | Level |

Time Period Independent Weaving Segment Data

| Seg # | Configuration | Short Length (ft) | # Weaving Lanes | Min. Lane Changes Freeway-Ramp | Min. Lane Changes Ramp-Freeway | Min. Lane Changes Ramp-Ramp |
|-------|---------------|-------------------|-----------------|--------------------------------|--------------------------------|-----------------------------|
| | | | | | | |

Ramp Descriptions

| Segment | Type | On-Ramp | | | | | Off-Ramp | | | | |
|---------|------|-----------------------|-----|-------|----------------------|-----|-----------------------|-----|-------|----------------------|-----|
| | | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS |
| | | | | | | | | | | | |

Toll Plaza Input Data

| Segment | Configuration | Number of Manual Lanes | Number of Coin Machine Lanes | Number of ETC-Only Lanes | | |
|----------------------------|----------------------------------|------------------------------|---------------------------------|-------------------------------|----------------------------|---------------------------|
| Pct. Manual Payment | Pct. Coin Machine Payment | Pct. ETC-Only Payment | Manual Avg. Service Time | Coin Avg. Service Time | ETC Free-Flow Speed | Prop. Trad. Demand |

Segment Results and LOS

| Seg # | From | To | Analysis Type | Analysis Volume (pc/h) | Capacity (pc/h) | v/c Ratio | Avg. Speed (mi/h) | Density (pc/h/ln) | LOS | Sig Impact | |
|-----------------------|---------------|------------------|---------------|------------------------|-----------------|-------------------|-------------------|-------------------|-------------|------------|----------|
| 1 | | | Basic Segment | 4347 | 7200 | 0,60 | 72,8 | 19,9 | C | N/A | |
| Freeway Length | 1,0000 | FFS Delay | 1,5 | Threshold Delay | 0,0 | Avg. Speed | 72,8 | Density | 19,9 | LOS | C |

Service Volumes

Note: The maximum normally acceptable directional service volume for LOS E in Florida for this facility type and area type is 2100 veh/h/ln.

| | A | B | C | D | E |
|--------------|---|--------|--------|--------|--------|
| Lanes | Hourly Volume In Peak Direction | | | | |
| 4 | 1280 | 2160 | 2820 | 3380 | 3820 |
| 6 | 1920 | 3200 | 4280 | 5080 | 5720 |
| 8 | 2520 | 4300 | 5680 | 6760 | 7640 |
| 10 | 3180 | 5360 | 7120 | 8440 | 9560 |
| 12 | 3820 | 6460 | 8520 | 10140 | 11460 |
| Lanes | Peak Hour Volume Both Directions | | | | |
| 4 | 2320 | 3910 | 5140 | 6150 | 6960 |
| 6 | 3500 | 5820 | 7780 | 9220 | 10410 |
| 8 | 4600 | 7820 | 10320 | 12280 | 13900 |
| 10 | 5780 | 9730 | 12960 | 15350 | 17380 |
| 12 | 6960 | 11730 | 15500 | 18420 | 20850 |
| Lanes | Annual Average Daily Traffic | | | | |
| 4 | 25800 | 43500 | 57100 | 68300 | 77300 |
| 6 | 38900 | 64700 | 86400 | 102500 | 115700 |
| 8 | 51100 | 86900 | 114700 | 136400 | 154500 |
| 10 | 64200 | 108100 | 144000 | 170600 | 193100 |
| 12 | 77300 | 130400 | 172300 | 204700 | 231700 |

FREEPLAN 2012 Conceptual Planning Analysis

Project Information

| | | | | | |
|----------------------|--------------------|-----------------------|------------|---------------------|-------------------|
| Analyst | | Freeway Name | A-7 | Study Period | Standard K |
| Date Prepared | 10/5/2020 12:31:45 | From | | Program | FREEPLAN 2012 |
| Agency | | To | | Version Date | 12/12/2012 |
| Area Type | Large Urbanized | Peak Direction | Southbound | | |
| File Name | | | | | |
| User Notes | Año 2030 | | | | |

Freeway Data

| | | | | | |
|-------------|-------|--|------|--------------------------------|------|
| AADT | 84681 | Freeway Input Volume | 4192 | Local Adjustment Factor | 1,00 |
| K | 0,09 | PHF | 0,9 | Ramp Metering Exists | No |
| D | 0,55 | Percent Trucks Entering First Segment | 12,4 | | |

Segment Data

| Seg # | From | To | Input Type | Length (ft) | Hourly Volume (veh/h) | # Lanes | Posted Speed (mi/h) | Free-Flow Speed (mi/h) | Terrain |
|-------|------|----|---------------|-------------|-----------------------|---------|---------------------|------------------------|---------|
| 1 | | | Basic Segment | 5280 | 4192 | 3 | 70 | 75 | Level |

Time Period Independent Weaving Segment Data

| Seg # | Configuration | Short Length (ft) | # Weaving Lanes | Min. Lane Changes Freeway-Ramp | Min. Lane Changes Ramp-Freeway | Min. Lane Changes Ramp-Ramp |
|-------|---------------|-------------------|-----------------|--------------------------------|--------------------------------|-----------------------------|
| | | | | | | |

Ramp Descriptions

| Segment | Type | On-Ramp | | | | | Off-Ramp | | | | |
|---------|------|-----------------------|-----|-------|----------------------|-----|-----------------------|-----|-------|----------------------|-----|
| | | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS |
| | | | | | | | | | | | |

Toll Plaza Input Data

| Segment | Configuration | Number of Manual Lanes | Number of Coin Machine Lanes | Number of ETC-Only Lanes | | |
|---------------------|---------------------------|------------------------|------------------------------|--------------------------|---------------------|--------------------|
| Pct. Manual Payment | Pct. Coin Machine Payment | Pct. ETC-Only Payment | Manual Avg. Service Time | Coin Avg. Service Time | ETC Free-Flow Speed | Prop. Trad. Demand |
| | | | | | | |

Segment Results and LOS

| Seg # | From | To | Analysis Type | Analysis Volume (pc/h) | Capacity (pc/h) | v/c Ratio | Avg. Speed (mi/h) | Density (pc/h/ln) | LOS | Sig Impact | |
|-----------------------|---------------|------------------|---------------|------------------------|-----------------|-------------------|-------------------|-------------------|-------------|------------|----------|
| 1 | | | Basic Segment | 4947 | 7200 | 0,69 | 70,3 | 23,4 | C | N/A | |
| Freeway Length | 1,0000 | FFS Delay | 3,2 | Threshold Delay | 0,0 | Avg. Speed | 70,3 | Density | 23,4 | LOS | C |

Service Volumes

Note: The maximum normally acceptable directional service volume for LOS E in Florida for this facility type and area type is 2100 veh/h/ln.

| | A | B | C | D | E |
|--------------|---|--------|--------|--------|--------|
| Lanes | Hourly Volume In Peak Direction | | | | |
| 4 | 1280 | 2160 | 2820 | 3380 | 3820 |
| 6 | 1920 | 3200 | 4280 | 5060 | 5720 |
| 8 | 2520 | 4300 | 5680 | 6740 | 7620 |
| 10 | 3180 | 5360 | 7120 | 8440 | 9540 |
| 12 | 3820 | 6400 | 8520 | 10120 | 11440 |
| Lanes | Peak Hour Volume Both Directions | | | | |
| 4 | 2320 | 3910 | 5140 | 6130 | 6940 |
| 6 | 3500 | 5820 | 7780 | 9200 | 10410 |
| 8 | 4600 | 7820 | 10320 | 12260 | 13870 |
| 10 | 5780 | 9730 | 12960 | 15330 | 17340 |
| 12 | 6960 | 11640 | 15500 | 18390 | 20810 |
| Lanes | Annual Average Daily Traffic | | | | |
| 4 | 25800 | 43500 | 57100 | 68100 | 77100 |
| 6 | 38900 | 64700 | 86400 | 102300 | 115700 |
| 8 | 51100 | 86900 | 114700 | 136200 | 154100 |
| 10 | 64200 | 108100 | 144000 | 170400 | 192700 |
| 12 | 77300 | 129300 | 172300 | 204300 | 231300 |

FREEPLAN 2012 Conceptual Planning Analysis

Project Information

| | | | | | |
|----------------------|--------------------|-----------------------|------------|---------------------|-------------------|
| Analyst | | Freeway Name | A-7 | Study Period | Standard K |
| Date Prepared | 10/5/2020 12:31:45 | From | | Program | FREEPLAN 2012 |
| Agency | | To | | Version Date | 12/12/2012 |
| Area Type | Large Urbanized | Peak Direction | Southbound | | |
| File Name | | | | | |
| User Notes | Año 2040 | | | | |

Freeway Data

| | | | | | |
|-------------|--------|--|-------|--------------------------------|------|
| AADT | 109006 | Freeway Input Volume | 5396 | Local Adjustment Factor | 1,00 |
| K | 0,09 | PHF | 0,9 | Ramp Metering Exists | No |
| D | 0,55 | Percent Trucks Entering First Segment | 12,88 | | |

Segment Data

| Seg # | From | To | Input Type | Length (ft) | Hourly Volume (veh/h) | # Lanes | Posted Speed (mi/h) | Free-Flow Speed (mi/h) | Terrain |
|-------|------|----|---------------|-------------|-----------------------|---------|---------------------|------------------------|---------|
| 1 | | | Basic Segment | 5280 | 5396 | 3 | 70 | 75 | Level |

Time Period Independent Weaving Segment Data

| Seg # | Configuration | Short Length (ft) | # Weaving Lanes | Min. Lane Changes Freeway-Ramp | Min. Lane Changes Ramp-Freeway | Min. Lane Changes Ramp-Ramp |
|-------|---------------|-------------------|-----------------|--------------------------------|--------------------------------|-----------------------------|
| | | | | | | |

Ramp Descriptions

| Segment | Type | On-Ramp | | | | | Off-Ramp | | | | |
|---------|------|-----------------------|-----|-------|----------------------|-----|-----------------------|-----|-------|----------------------|-----|
| | | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS |
| | | | | | | | | | | | |

Toll Plaza Input Data

| Segment | Configuration | Number of Manual Lanes | Number of Coin Machine Lanes | Number of ETC-Only Lanes | | |
|---------------------|---------------------------|------------------------|------------------------------|--------------------------|---------------------|--------------------|
| Pct. Manual Payment | Pct. Coin Machine Payment | Pct. ETC-Only Payment | Manual Avg. Service Time | Coin Avg. Service Time | ETC Free-Flow Speed | Prop. Trad. Demand |
| | | | | | | |

Segment Results and LOS

| Seg # | From | To | Analysis Type | Analysis Volume (pc/h) | Capacity (pc/h) | v/c Ratio | Avg. Speed (mi/h) | Density (pc/h/ln) | LOS | Sig Impact | |
|-----------------------|---------------|------------------|---------------|------------------------|-----------------|-------------------|-------------------|-------------------|-------------|------------|----------|
| 1 | | | Basic Segment | 6382 | 7200 | 0,89 | 60,9 | 34,9 | D | N/A | |
| Freeway Length | 1,0000 | FFS Delay | 11,1 | Threshold Delay | 1,2 | Avg. Speed | 60,9 | Density | 34,9 | LOS | E |

Service Volumes

Note: The maximum normally acceptable directional service volume for LOS E in Florida for this facility type and area type is 2100 veh/h/ln.

| | A | B | C | D | E |
|--------------|---|--------|--------|--------|--------|
| Lanes | Hourly Volume In Peak Direction | | | | |
| 4 | 1280 | 2160 | 2820 | 3360 | 3800 |
| 6 | 1920 | 3200 | 4280 | 5060 | 5700 |
| 8 | 2520 | 4260 | 5680 | 6740 | 7620 |
| 10 | 3180 | 5360 | 7080 | 8420 | 9520 |
| 12 | 3820 | 6400 | 8520 | 10100 | 11420 |
| Lanes | Peak Hour Volume Both Directions | | | | |
| 4 | 2320 | 3910 | 5140 | 6110 | 6920 |
| 6 | 3500 | 5820 | 7780 | 9190 | 10380 |
| 8 | 4600 | 7730 | 10320 | 12240 | 13850 |
| 10 | 5780 | 9730 | 12870 | 15300 | 17300 |
| 12 | 6960 | 11640 | 15500 | 18350 | 20760 |
| Lanes | Annual Average Daily Traffic | | | | |
| 4 | 25800 | 43500 | 57100 | 67900 | 76900 |
| 6 | 38900 | 64700 | 86400 | 102100 | 115300 |
| 8 | 51100 | 85900 | 114700 | 136000 | 153900 |
| 10 | 64200 | 108100 | 143000 | 169900 | 192300 |
| 12 | 77300 | 129300 | 172300 | 203900 | 230700 |

FREEPLAN 2012 Conceptual Planning Analysis

Project Information

| | | | | | |
|----------------------|--------------------|-----------------------|------------|---------------------|-------------------|
| Analyst | | Freeway Name | A-7 | Study Period | Standard K |
| Date Prepared | 10/5/2020 12:31:45 | From | | Program | FREEPLAN 2012 |
| Agency | | To | | Version Date | 12/12/2012 |
| Area Type | Large Urbanized | Peak Direction | Southbound | | |
| File Name | | | | | |
| User Notes | Año 2050 | | | | |

Freeway Data

| | | | | | |
|-------------|--------|--|-------|--------------------------------|------|
| AADT | 140292 | Freeway Input Volume | 6944 | Local Adjustment Factor | 1,00 |
| K | 0,09 | PHF | 0,9 | Ramp Metering Exists | No |
| D | 0,55 | Percent Trucks Entering First Segment | 13,35 | | |

Segment Data

| Seg # | From | To | Input Type | Length (ft) | Hourly Volume (veh/h) | # Lanes | Posted Speed (mi/h) | Free-Flow Speed (mi/h) | Terrain |
|-------|------|----|---------------|-------------|-----------------------|---------|---------------------|------------------------|---------|
| 1 | | | Basic Segment | 5280 | 6944 | 3 | 70 | 75 | Level |

Time Period Independent Weaving Segment Data

| Seg # | Configuration | Short Length (ft) | # Weaving Lanes | Min. Lane Changes Freeway-Ramp | Min. Lane Changes Ramp-Freeway | Min. Lane Changes Ramp-Ramp |
|-------|---------------|-------------------|-----------------|--------------------------------|--------------------------------|-----------------------------|
| | | | | | | |

Ramp Descriptions

| Segment | Type | On-Ramp | | | | | Off-Ramp | | | | |
|---------|------|-----------------------|-----|-------|----------------------|-----|-----------------------|-----|-------|----------------------|-----|
| | | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS |
| | | | | | | | | | | | |

Toll Plaza Input Data

| Segment | Configuration | Number of Manual Lanes | Number of Coin Machine Lanes | Number of ETC-Only Lanes | | |
|---------------------|---------------------------|------------------------|------------------------------|--------------------------|---------------------|--------------------|
| Pct. Manual Payment | Pct. Coin Machine Payment | Pct. ETC-Only Payment | Manual Avg. Service Time | Coin Avg. Service Time | ETC Free-Flow Speed | Prop. Trad. Demand |
| | | | | | | |

Segment Results and LOS

| Seg # | From | To | Analysis Type | Analysis Volume (pc/h) | Capacity (pc/h) | v/c Ratio | Avg. Speed (mi/h) | Density (pc/h/ln) | LOS | Sig Impact | |
|-----------------------|---------------|------------------|---------------|------------------------|-----------------|-------------------|-------------------|-------------------|-----------|------------|----------|
| 1 | | | Basic Segment | 8231 | 7200 | 1,14 | ## | ## | F | N/A | |
| Freeway Length | 1,0000 | FFS Delay | ## | Threshold Delay | ## | Avg. Speed | ## | Density | ## | LOS | F |

Service Volumes

Note: The maximum normally acceptable directional service volume for LOS E in Florida for this facility type and area type is 2100 veh/h/ln.

| | A | B | C | D | E |
|--------------|---|--------|--------|--------|--------|
| Lanes | Hourly Volume In Peak Direction | | | | |
| 4 | 1280 | 2160 | 2820 | 3360 | 3800 |
| 6 | 1880 | 3200 | 4220 | 5040 | 5700 |
| 8 | 2520 | 4260 | 5680 | 6720 | 7600 |
| 10 | 3180 | 5300 | 7080 | 8400 | 9500 |
| 12 | 3780 | 6400 | 8480 | 10080 | 11400 |
| Lanes | Peak Hour Volume Both Directions | | | | |
| 4 | 2320 | 3910 | 5140 | 6110 | 6900 |
| 6 | 3410 | 5820 | 7690 | 9170 | 10360 |
| 8 | 4600 | 7730 | 10320 | 12200 | 13810 |
| 10 | 5780 | 9640 | 12870 | 15260 | 17270 |
| 12 | 6870 | 11640 | 15410 | 18310 | 20720 |
| Lanes | Annual Average Daily Traffic | | | | |
| 4 | 25800 | 43500 | 57100 | 67900 | 76700 |
| 6 | 37900 | 64700 | 85400 | 101900 | 115100 |
| 8 | 51100 | 85900 | 114700 | 135600 | 153500 |
| 10 | 64200 | 107100 | 143000 | 169500 | 191900 |
| 12 | 76300 | 129300 | 171300 | 203500 | 230300 |



Tramo 3

Hipótesis 1

FREEPLAN 2012 Conceptual Planning Analysis

Project Information

| | | | | | |
|----------------------|-------------------|-----------------------|------------|---------------------|-------------------|
| Analyst | | Freeway Name | A-7 | Study Period | Standard K |
| Date Prepared | 2/5/2020 12:57:35 | From | 1 | Program | FREEPLAN 2012 |
| Agency | | To | 2 | Version Date | 12/12/2012 |
| Area Type | Large Urbanized | Peak Direction | Southbound | | |
| File Name | | | | | |
| User Notes | Año 2025 | | | | |

Freeway Data

| | | | | | |
|-------------|-------|--|-------|--------------------------------|------|
| AADT | 95762 | Freeway Input Volume | 4740 | Local Adjustment Factor | 1,00 |
| K | 0,09 | PHF | 0,9 | Ramp Metering Exists | No |
| D | 0,55 | Percent Trucks Entering First Segment | 19,53 | | |

Segment Data

| Seg # | From | To | Input Type | Length (ft) | Hourly Volume (veh/h) | # Lanes | Posted Speed (mi/h) | Free-Flow Speed (mi/h) | Terrain |
|-------|------|----|---------------|-------------|-----------------------|---------|---------------------|------------------------|---------|
| 1 | | | Basic Segment | 5000 | 4740 | 3 | 70 | 75 | Level |

Time Period Independent Weaving Segment Data

| Seg # | Configuration | Short Length (ft) | # Weaving Lanes | Min. Lane Changes Freeway-Ramp | Min. Lane Changes Ramp-Freeway | Min. Lane Changes Ramp-Ramp |
|-------|---------------|-------------------|-----------------|--------------------------------|--------------------------------|-----------------------------|
| | | | | | | |

Ramp Descriptions

| Segment | Type | On-Ramp | | | | | Off-Ramp | | | | |
|---------|------|-----------------------|-----|-------|----------------------|-----|-----------------------|-----|-------|----------------------|-----|
| | | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS |
| | | | | | | | | | | | |

Toll Plaza Input Data

| Segment | Configuration | Number of Manual Lanes | Number of Coin Machine Lanes | Number of ETC-Only Lanes | | |
|----------------------------|----------------------------------|------------------------------|---------------------------------|-------------------------------|----------------------------|---------------------------|
| Pct. Manual Payment | Pct. Coin Machine Payment | Pct. ETC-Only Payment | Manual Avg. Service Time | Coin Avg. Service Time | ETC Free-Flow Speed | Prop. Trad. Demand |

Segment Results and LOS

| Seg # | From | To | Analysis Type | Analysis Volume (pc/h) | Capacity (pc/h) | v/c Ratio | Avg. Speed (mi/h) | Density (pc/h/ln) | LOS | Sig Impact | |
|-----------------------|---------------|------------------|---------------|------------------------|-----------------|-------------------|-------------------|-------------------|-------------|------------|----------|
| 1 | | | Basic Segment | 5781 | 7200 | 0,80 | 65,5 | 29,4 | D | N/A | |
| Freeway Length | 0,9470 | FFS Delay | 6,6 | Threshold Delay | 0,0 | Avg. Speed | 65,5 | Density | 29,4 | LOS | D |

Service Volumes

Note: The maximum normally acceptable directional service volume for LOS E in Florida for this facility type and area type is 2100 veh/h/ln.

| | A | B | C | D | E |
|--------------|---|--------|--------|--------|--------|
| Lanes | Hourly Volume In Peak Direction | | | | |
| 4 | 1220 | 2060 | 2780 | 3260 | 3700 |
| 6 | 1820 | 3100 | 4120 | 4900 | 5540 |
| 8 | 2480 | 4160 | 5520 | 6520 | 7380 |
| 10 | 3080 | 5160 | 6880 | 8160 | 9220 |
| 12 | 3680 | 6200 | 8280 | 9800 | 11080 |
| Lanes | Peak Hour Volume Both Directions | | | | |
| 4 | 2230 | 3730 | 5050 | 5930 | 6720 |
| 6 | 3320 | 5640 | 7500 | 8900 | 10070 |
| 8 | 4500 | 7550 | 10050 | 11860 | 13430 |
| 10 | 5600 | 9370 | 12500 | 14840 | 16780 |
| 12 | 6690 | 11280 | 15050 | 17800 | 20140 |
| Lanes | Annual Average Daily Traffic | | | | |
| 4 | 24800 | 41500 | 56100 | 65900 | 74700 |
| 6 | 36900 | 62700 | 83400 | 98800 | 111900 |
| 8 | 50000 | 83900 | 111700 | 131800 | 149200 |
| 10 | 62200 | 104100 | 138900 | 164900 | 186400 |
| 12 | 74300 | 125300 | 167200 | 197800 | 223800 |

FREEPLAN 2012 Conceptual Planning Analysis

Project Information

| | | | | | |
|----------------------|-------------------|-----------------------|------------|---------------------|-------------------|
| Analyst | | Freeway Name | A-7 | Study Period | Standard K |
| Date Prepared | 2/5/2020 12:57:35 | From | 1 | Program | FREEPLAN 2012 |
| Agency | | To | 2 | Version Date | 12/12/2012 |
| Area Type | Large Urbanized | Peak Direction | Southbound | | |
| File Name | | | | | |
| User Notes | Año 2030 | | | | |

Freeway Data

| | | | | | |
|-------------|--------|--|-------|--------------------------------|------|
| AADT | 108791 | Freeway Input Volume | 5385 | Local Adjustment Factor | 1,00 |
| K | 0,09 | PHF | 0,9 | Ramp Metering Exists | No |
| D | 0,55 | Percent Trucks Entering First Segment | 19,85 | | |

Segment Data

| Seg # | From | To | Input Type | Length (ft) | Hourly Volume (veh/h) | # Lanes | Posted Speed (mi/h) | Free-Flow Speed (mi/h) | Terrain |
|-------|------|----|---------------|-------------|-----------------------|---------|---------------------|------------------------|---------|
| 1 | | | Basic Segment | 5000 | 5385 | 3 | 70 | 75 | Level |

Time Period Independent Weaving Segment Data

| Seg # | Configuration | Short Length (ft) | # Weaving Lanes | Min. Lane Changes Freeway-Ramp | Min. Lane Changes Ramp-Freeway | Min. Lane Changes Ramp-Ramp |
|-------|---------------|-------------------|-----------------|--------------------------------|--------------------------------|-----------------------------|
| | | | | | | |

Ramp Descriptions

| Segment | Type | On-Ramp | | | | | Off-Ramp | | | | |
|---------|------|-----------------------|-----|-------|----------------------|-----|-----------------------|-----|-------|----------------------|-----|
| | | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS |
| | | | | | | | | | | | |

Toll Plaza Input Data

| Segment | Configuration | Number of Manual Lanes | Number of Coin Machine Lanes | Number of ETC-Only Lanes | | |
|---------------------|---------------------------|------------------------|------------------------------|--------------------------|---------------------|--------------------|
| Pct. Manual Payment | Pct. Coin Machine Payment | Pct. ETC-Only Payment | Manual Avg. Service Time | Coin Avg. Service Time | ETC Free-Flow Speed | Prop. Trad. Demand |
| | | | | | | |

Segment Results and LOS

| Seg # | From | To | Analysis Type | Analysis Volume (pc/h) | Capacity (pc/h) | v/c Ratio | Avg. Speed (mi/h) | Density (pc/h/ln) | LOS | Sig Impact | |
|-----------------------|---------------|------------------|---------------|------------------------|-----------------|-------------------|-------------------|-------------------|-------------|------------|----------|
| 1 | | | Basic Segment | 6577 | 7200 | 0,91 | 59,3 | 37,0 | E | N/A | |
| Freeway Length | 0,9470 | FFS Delay | 12,1 | Threshold Delay | 2,7 | Avg. Speed | 59,3 | Density | 37,0 | LOS | E |

Service Volumes

Note: The maximum normally acceptable directional service volume for LOS E in Florida for this facility type and area type is 2100 veh/h/ln.

| | A | B | C | D | E |
|--------------|---|--------|--------|--------|--------|
| Lanes | Hourly Volume In Peak Direction | | | | |
| 4 | 1220 | 2060 | 2720 | 3260 | 3680 |
| 6 | 1820 | 3100 | 4120 | 4900 | 5520 |
| 8 | 2480 | 4160 | 5480 | 6520 | 7360 |
| 10 | 3080 | 5160 | 6880 | 8140 | 9220 |
| 12 | 3680 | 6200 | 8220 | 9780 | 11060 |
| Lanes | Peak Hour Volume Both Directions | | | | |
| 4 | 2230 | 3730 | 4960 | 5930 | 6700 |
| 6 | 3320 | 5640 | 7500 | 8900 | 10050 |
| 8 | 4500 | 7550 | 9960 | 11840 | 13400 |
| 10 | 5600 | 9370 | 12500 | 14800 | 16760 |
| 12 | 6690 | 11280 | 14960 | 17770 | 20100 |
| Lanes | Annual Average Daily Traffic | | | | |
| 4 | 24800 | 41500 | 55100 | 65900 | 74500 |
| 6 | 36900 | 62700 | 83400 | 98800 | 111700 |
| 8 | 50000 | 83900 | 110700 | 131600 | 148800 |
| 10 | 62200 | 104100 | 138900 | 164500 | 186200 |
| 12 | 74300 | 125300 | 166200 | 197400 | 223400 |

FREEPLAN 2012 Conceptual Planning Analysis

Project Information

| | | | | | |
|----------------------|-------------------|-----------------------|------------|---------------------|-------------------|
| Analyst | | Freeway Name | A-7 | Study Period | Standard K |
| Date Prepared | 2/5/2020 12:57:35 | From | 1 | Program | FREEPLAN 2012 |
| Agency | | To | 2 | Version Date | 12/12/2012 |
| Area Type | Large Urbanized | Peak Direction | Southbound | | |
| File Name | | | | | |
| User Notes | Año 2040 | | | | |

Freeway Data

| | | | | | |
|-------------|--------|---|-------|--------------------------------|------|
| AADT | 139999 | Freeway Input Volume | 6930 | Local Adjustment Factor | 1,00 |
| K | 0,09 | PHF | 0,9 | Ramp Metering Exists | No |
| D | 0,55 | Pecent Trucks Entering First Segment | 20,28 | | |

Segment Data

| Seg # | From | To | Input Type | Length (ft) | Hourly Volume (veh/h) | # Lanes | Posted Speed (mi/h) | Free-Flow Speed (mi/h) | Terrain |
|-------|------|----|---------------|-------------|-----------------------|---------|---------------------|------------------------|---------|
| 1 | | | Basic Segment | 5000 | 6930 | 3 | 70 | 75 | Level |

Time Period Independent Weaving Segment Data

| Seg # | Configuration | Short Length (ft) | # Weaving Lanes | Min. Lane Changes Freeway-Ramp | Min. Lane Changes Ramp-Freeway | Min. Lane Changes Ramp-Ramp |
|-------|---------------|-------------------|-----------------|--------------------------------|--------------------------------|-----------------------------|
| | | | | | | |

Ramp Descriptions

| Segment | Type | On-Ramp | | | | | Off-Ramp | | | | |
|---------|------|-----------------------|-----|-------|----------------------|-----|-----------------------|-----|-------|----------------------|-----|
| | | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS |
| | | | | | | | | | | | |

Toll Plaza Input Data

| Segment | Configuration | Number of Manual Lanes | Number of Coin Machine Lanes | Number of ETC-Only Lanes | | |
|---------------------|---------------------------|------------------------|------------------------------|--------------------------|---------------------|--------------------|
| Pct. Manual Payment | Pct. Coin Machine Payment | Pct. ETC-Only Payment | Manual Avg. Service Time | Coin Avg. Service Time | ETC Free-Flow Speed | Prop. Trad. Demand |
| | | | | | | |

Segment Results and LOS

| Seg # | From | To | Analysis Type | Analysis Volume (pc/h) | Capacity (pc/h) | v/c Ratio | Avg. Speed (mi/h) | Density (pc/h/ln) | LOS | Sig Impact | |
|-----------------------|---------------|------------------|---------------|------------------------|-----------------|-------------------|-------------------|-------------------|-----------|------------|----------|
| 1 | | | Basic Segment | 8481 | 7200 | 1,18 | ## | ## | F | N/A | |
| Freeway Length | 0,9470 | FFS Delay | ## | Threshold Delay | ## | Avg. Speed | ## | Density | ## | LOS | F |

Service Volumes

Note: The maximum normally acceptable directional service volume for LOS E in Florida for this facility type and area type is 2100 veh/h/ln.

| | A | B | C | D | E |
|--------------|---|--------|--------|--------|--------|
| Lanes | Hourly Volume In Peak Direction | | | | |
| 4 | 1220 | 2060 | 2720 | 3260 | 3680 |
| 6 | 1820 | 3100 | 4120 | 4880 | 5520 |
| 8 | 2480 | 4160 | 5480 | 6500 | 7360 |
| 10 | 3080 | 5160 | 6880 | 8140 | 9200 |
| 12 | 3680 | 6200 | 8220 | 9760 | 11040 |
| Lanes | Peak Hour Volume Both Directions | | | | |
| 4 | 2230 | 3730 | 4960 | 5910 | 6690 |
| 6 | 3320 | 5640 | 7500 | 8880 | 10030 |
| 8 | 4500 | 7550 | 9960 | 11820 | 13380 |
| 10 | 5600 | 9370 | 12500 | 14790 | 16720 |
| 12 | 6690 | 11280 | 14960 | 17730 | 20070 |
| Lanes | Annual Average Daily Traffic | | | | |
| 4 | 24800 | 41500 | 55100 | 65700 | 74300 |
| 6 | 36900 | 62700 | 83400 | 98600 | 111500 |
| 8 | 50000 | 83900 | 110700 | 131400 | 148600 |
| 10 | 62200 | 104100 | 138900 | 164300 | 185800 |
| 12 | 74300 | 125300 | 166200 | 197000 | 223000 |



Tramo 3

Hipótesis 3

FREEPLAN 2012 Conceptual Planning Analysis

Project Information

| | | | | | |
|----------------------|--------------------|-----------------------|------------|---------------------|-------------------|
| Analyst | | Freeway Name | A-7 | Study Period | Standard K |
| Date Prepared | 10/5/2020 12:31:45 | From | | Program | FREEPLAN 2012 |
| Agency | | To | | Version Date | 12/12/2012 |
| Area Type | Large Urbanized | Peak Direction | Southbound | | |
| File Name | | | | | |
| User Notes | Año 2025 | | | | |

Freeway Data

| | | | | | |
|-------------|-------|--|-------|--------------------------------|------|
| AADT | 95686 | Freeway Input Volume | 4736 | Local Adjustment Factor | 1,00 |
| K | 0,09 | PHF | 0,9 | Ramp Metering Exists | No |
| D | 0,55 | Percent Trucks Entering First Segment | 19,46 | | |

Segment Data

| Seg # | From | To | Input Type | Length (ft) | Hourly Volume (veh/h) | # Lanes | Posted Speed (mi/h) | Free-Flow Speed (mi/h) | Terrain |
|-------|------|----|---------------|-------------|-----------------------|---------|---------------------|------------------------|---------|
| 1 | | | Basic Segment | 5280 | 4736 | 3 | 70 | 75 | Level |

Time Period Independent Weaving Segment Data

| Seg # | Configuration | Short Length (ft) | # Weaving Lanes | Min. Lane Changes Freeway-Ramp | Min. Lane Changes Ramp-Freeway | Min. Lane Changes Ramp-Ramp |
|-------|---------------|-------------------|-----------------|--------------------------------|--------------------------------|-----------------------------|
| | | | | | | |

Ramp Descriptions

| Segment | Type | On-Ramp | | | | | Off-Ramp | | | | |
|---------|------|-----------------------|-----|-------|----------------------|-----|-----------------------|-----|-------|----------------------|-----|
| | | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS |
| | | | | | | | | | | | |

Toll Plaza Input Data

| Segment | Configuration | Number of Manual Lanes | Number of Coin Machine Lanes | Number of ETC-Only Lanes | | |
|---------------------|---------------------------|------------------------|------------------------------|--------------------------|---------------------|--------------------|
| Pct. Manual Payment | Pct. Coin Machine Payment | Pct. ETC-Only Payment | Manual Avg. Service Time | Coin Avg. Service Time | ETC Free-Flow Speed | Prop. Trad. Demand |
| | | | | | | |

Segment Results and LOS

| Seg # | From | To | Analysis Type | Analysis Volume (pc/h) | Capacity (pc/h) | v/c Ratio | Avg. Speed (mi/h) | Density (pc/h/ln) | LOS | Sig Impact | |
|-----------------------|---------------|------------------|---------------|------------------------|-----------------|-------------------|-------------------|-------------------|-------------|------------|----------|
| 1 | | | Basic Segment | 5774 | 7200 | 0,80 | 65,5 | 29,4 | D | N/A | |
| Freeway Length | 1,0000 | FFS Delay | 6,9 | Threshold Delay | 0,0 | Avg. Speed | 65,5 | Density | 29,4 | LOS | D |

Service Volumes

Note: The maximum normally acceptable directional service volume for LOS E in Florida for this facility type and area type is 2100 veh/h/ln.

| | A | B | C | D | E |
|--------------|---|--------|--------|--------|--------|
| Lanes | Hourly Volume In Peak Direction | | | | |
| 4 | 1220 | 2060 | 2780 | 3260 | 3700 |
| 6 | 1820 | 3100 | 4120 | 4900 | 5540 |
| 8 | 2480 | 4160 | 5520 | 6540 | 7380 |
| 10 | 3080 | 5200 | 6880 | 8160 | 9220 |
| 12 | 3680 | 6200 | 8280 | 9800 | 11080 |
| Lanes | Peak Hour Volume Both Directions | | | | |
| 4 | 2230 | 3730 | 5050 | 5930 | 6720 |
| 6 | 3320 | 5640 | 7500 | 8900 | 10070 |
| 8 | 4500 | 7550 | 10050 | 11880 | 13430 |
| 10 | 5600 | 9460 | 12500 | 14840 | 16780 |
| 12 | 6690 | 11280 | 15050 | 17800 | 20140 |
| Lanes | Annual Average Daily Traffic | | | | |
| 4 | 24800 | 41500 | 56100 | 65900 | 74700 |
| 6 | 36900 | 62700 | 83400 | 98800 | 111900 |
| 8 | 50000 | 83900 | 111700 | 132000 | 149200 |
| 10 | 62200 | 105100 | 138900 | 164900 | 186400 |
| 12 | 74300 | 125300 | 167200 | 197800 | 223800 |

FREEPLAN 2012 Conceptual Planning Analysis

Project Information

| | | | | | |
|----------------------|--------------------|-----------------------|------------|---------------------|-------------------|
| Analyst | | Freeway Name | A-7 | Study Period | Standard K |
| Date Prepared | 10/5/2020 12:31:45 | From | | Program | FREEPLAN 2012 |
| Agency | | To | | Version Date | 12/12/2012 |
| Area Type | Large Urbanized | Peak Direction | Southbound | | |
| File Name | | | | | |
| User Notes | Año 2030 | | | | |

Freeway Data

| | | | | | |
|-------------|--------|--|-------|--------------------------------|------|
| AADT | 108704 | Freeway Input Volume | 5381 | Local Adjustment Factor | 1,00 |
| K | 0,09 | PHF | 0,9 | Ramp Metering Exists | No |
| D | 0,55 | Percent Trucks Entering First Segment | 19,79 | | |

Segment Data

| Seg # | From | To | Input Type | Length (ft) | Hourly Volume (veh/h) | # Lanes | Posted Speed (mi/h) | Free-Flow Speed (mi/h) | Terrain |
|-------|------|----|---------------|-------------|-----------------------|---------|---------------------|------------------------|---------|
| 1 | | | Basic Segment | 5280 | 5381 | 3 | 70 | 75 | Level |

Time Period Independent Weaving Segment Data

| Seg # | Configuration | Short Length (ft) | # Weaving Lanes | Min. Lane Changes Freeway-Ramp | Min. Lane Changes Ramp-Freeway | Min. Lane Changes Ramp-Ramp |
|-------|---------------|-------------------|-----------------|--------------------------------|--------------------------------|-----------------------------|
| | | | | | | |

Ramp Descriptions

| Segment | Type | On-Ramp | | | | | Off-Ramp | | | | |
|---------|------|-----------------------|-----|-------|----------------------|-----|-----------------------|-----|-------|----------------------|-----|
| | | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS |
| | | | | | | | | | | | |

Toll Plaza Input Data

| Segment | Configuration | Number of Manual Lanes | Number of Coin Machine Lanes | Number of ETC-Only Lanes | | |
|---------------------|---------------------------|------------------------|------------------------------|--------------------------|---------------------|--------------------|
| Pct. Manual Payment | Pct. Coin Machine Payment | Pct. ETC-Only Payment | Manual Avg. Service Time | Coin Avg. Service Time | ETC Free-Flow Speed | Prop. Trad. Demand |
| | | | | | | |

Segment Results and LOS

| Seg # | From | To | Analysis Type | Analysis Volume (pc/h) | Capacity (pc/h) | v/c Ratio | Avg. Speed (mi/h) | Density (pc/h/ln) | LOS | Sig Impact | |
|-----------------------|---------------|------------------|---------------|------------------------|-----------------|-------------------|-------------------|-------------------|-------------|------------|----------|
| 1 | | | Basic Segment | 6571 | 7200 | 0,91 | 59,3 | 36,9 | E | N/A | |
| Freeway Length | 1,0000 | FFS Delay | 12,7 | Threshold Delay | 2,8 | Avg. Speed | 59,3 | Density | 36,9 | LOS | E |

Service Volumes

Note: The maximum normally acceptable directional service volume for LOS E in Florida for this facility type and area type is 2100 veh/h/ln.

| | A | B | C | D | E |
|--------------|---|--------|--------|--------|--------|
| Lanes | Hourly Volume In Peak Direction | | | | |
| 4 | 1220 | 2060 | 2720 | 3260 | 3680 |
| 6 | 1820 | 3100 | 4120 | 4900 | 5520 |
| 8 | 2480 | 4160 | 5480 | 6520 | 7380 |
| 10 | 3080 | 5160 | 6880 | 8160 | 9220 |
| 12 | 3680 | 6200 | 8220 | 9780 | 11060 |
| Lanes | Peak Hour Volume Both Directions | | | | |
| 4 | 2230 | 3730 | 4960 | 5930 | 6700 |
| 6 | 3320 | 5640 | 7500 | 8900 | 10050 |
| 8 | 4500 | 7550 | 9960 | 11860 | 13410 |
| 10 | 5600 | 9370 | 12500 | 14820 | 16760 |
| 12 | 6690 | 11280 | 14960 | 17770 | 20100 |
| Lanes | Annual Average Daily Traffic | | | | |
| 4 | 24800 | 41500 | 55100 | 65900 | 74500 |
| 6 | 36900 | 62700 | 83400 | 98800 | 111700 |
| 8 | 50000 | 83900 | 110700 | 131800 | 149000 |
| 10 | 62200 | 104100 | 138900 | 164700 | 186200 |
| 12 | 74300 | 125300 | 166200 | 197400 | 223400 |

FREEPLAN 2012 Conceptual Planning Analysis

Project Information

| | | | | | |
|----------------------|--------------------|-----------------------|------------|---------------------|-------------------|
| Analyst | | Freeway Name | A-7 | Study Period | Standard K |
| Date Prepared | 10/5/2020 12:31:45 | From | | Program | FREEPLAN 2012 |
| Agency | | To | | Version Date | 12/12/2012 |
| Area Type | Large Urbanized | Peak Direction | Southbound | | |
| File Name | | | | | |
| User Notes | Año 2040 | | | | |

Freeway Data

| | | | | | |
|-------------|--------|--|-------|--------------------------------|------|
| AADT | 139827 | Freeway Input Volume | 6921 | Local Adjustment Factor | 1,00 |
| K | 0,09 | PHF | 0,9 | Ramp Metering Exists | No |
| D | 0,55 | Percent Trucks Entering First Segment | 20,18 | | |

Segment Data

| Seg # | From | To | Input Type | Length (ft) | Hourly Volume (veh/h) | # Lanes | Posted Speed (mi/h) | Free-Flow Speed (mi/h) | Terrain |
|-------|------|----|---------------|-------------|-----------------------|---------|---------------------|------------------------|---------|
| 1 | | | Basic Segment | 5280 | 6921 | 3 | 70 | 75 | Level |

Time Period Independent Weaving Segment Data

| Seg # | Configuration | Short Length (ft) | # Weaving Lanes | Min. Lane Changes Freeway-Ramp | Min. Lane Changes Ramp-Freeway | Min. Lane Changes Ramp-Ramp |
|-------|---------------|-------------------|-----------------|--------------------------------|--------------------------------|-----------------------------|
| | | | | | | |

Ramp Descriptions

| Segment | Type | On-Ramp | | | | | Off-Ramp | | | | |
|---------|------|-----------------------|-----|-------|----------------------|-----|-----------------------|-----|-------|----------------------|-----|
| | | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS |
| | | | | | | | | | | | |

Toll Plaza Input Data

| Segment | Configuration | Number of Manual Lanes | Number of Coin Machine Lanes | Number of ETC-Only Lanes | | |
|---------------------|---------------------------|------------------------|------------------------------|--------------------------|---------------------|--------------------|
| Pct. Manual Payment | Pct. Coin Machine Payment | Pct. ETC-Only Payment | Manual Avg. Service Time | Coin Avg. Service Time | ETC Free-Flow Speed | Prop. Trad. Demand |
| | | | | | | |

Segment Results and LOS

| Seg # | From | To | Analysis Type | Analysis Volume (pc/h) | Capacity (pc/h) | v/c Ratio | Avg. Speed (mi/h) | Density (pc/h/ln) | LOS | Sig Impact | |
|-----------------------|---------------|------------------|---------------|------------------------|-----------------|-------------------|-------------------|-------------------|-----------|------------|----------|
| 1 | | | Basic Segment | 8466 | 7200 | 1,18 | ## | ## | F | N/A | |
| Freeway Length | 1,0000 | FFS Delay | ## | Threshold Delay | ## | Avg. Speed | ## | Density | ## | LOS | F |

Service Volumes

Note: The maximum normally acceptable directional service volume for LOS E in Florida for this facility type and area type is 2100 veh/h/ln.

| | A | B | C | D | E |
|--------------|---|--------|--------|--------|--------|
| Lanes | Hourly Volume In Peak Direction | | | | |
| 4 | 1220 | 2060 | 2720 | 3260 | 3680 |
| 6 | 1820 | 3100 | 4120 | 4880 | 5520 |
| 8 | 2480 | 4160 | 5480 | 6500 | 7360 |
| 10 | 3080 | 5160 | 6880 | 8140 | 9200 |
| 12 | 3680 | 6200 | 8220 | 9760 | 11040 |
| Lanes | Peak Hour Volume Both Directions | | | | |
| 4 | 2230 | 3730 | 4960 | 5910 | 6690 |
| 6 | 3320 | 5640 | 7500 | 8880 | 10030 |
| 8 | 4500 | 7550 | 9960 | 11820 | 13380 |
| 10 | 5600 | 9370 | 12500 | 14790 | 16720 |
| 12 | 6690 | 11280 | 14960 | 17750 | 20070 |
| Lanes | Annual Average Daily Traffic | | | | |
| 4 | 24800 | 41500 | 55100 | 65700 | 74300 |
| 6 | 36900 | 62700 | 83400 | 98600 | 111500 |
| 8 | 50000 | 83900 | 110700 | 131400 | 148600 |
| 10 | 62200 | 104100 | 138900 | 164300 | 185800 |
| 12 | 74300 | 125300 | 166200 | 197200 | 223000 |



V-30



Tramo 1

Hipótesis 1

FREEPLAN 2012 Conceptual Planning Analysis

Project Information

| | | | | | |
|----------------------|--------------------|-----------------------|------------|---------------------|-------------------|
| Analyst | | Freeway Name | V-30 | Study Period | Standard K |
| Date Prepared | 10/5/2020 12:31:45 | From | | Program | FREEPLAN 2012 |
| Agency | | To | | Version Date | 12/12/2012 |
| Area Type | Large Urbanized | Peak Direction | Southbound | | |
| File Name | | | | | |
| User Notes | Año 2025 | | | | |

Freeway Data

| | | | | | |
|-------------|-------|---|-------|--------------------------------|------|
| AADT | 54155 | Freeway Input Volume | 2681 | Local Adjustment Factor | 1,00 |
| K | 0,09 | PHF | 0,9 | Ramp Metering Exists | No |
| D | 0,55 | Pecent Trucks Entering First Segment | 27,28 | | |

Segment Data

| Seg # | From | To | Input Type | Length (ft) | Hourly Volume (veh/h) | # Lanes | Posted Speed (mi/h) | Free-Flow Speed (mi/h) | Terrain |
|-------|------|----|---------------|-------------|-----------------------|---------|---------------------|------------------------|---------|
| 1 | | | Basic Segment | 5280 | 2681 | 2 | 70 | 75 | Level |

Time Period Independent Weaving Segment Data

| Seg # | Configuration | Short Length (ft) | # Weaving Lanes | Min. Lane Changes Freeway-Ramp | Min. Lane Changes Ramp-Freeway | Min. Lane Changes Ramp-Ramp |
|-------|---------------|-------------------|-----------------|--------------------------------|--------------------------------|-----------------------------|
| | | | | | | |

Ramp Descriptions

| Segment | Type | On-Ramp | | | | | Off-Ramp | | | | |
|---------|------|-----------------------|-----|-------|----------------------|-----|-----------------------|-----|-------|----------------------|-----|
| | | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS |
| | | | | | | | | | | | |

Toll Plaza Input Data

| Segment | Configuration | Number of Manual Lanes | Number of Coin Machine Lanes | Number of ETC-Only Lanes | | |
|---------------------|---------------------------|------------------------|------------------------------|--------------------------|---------------------|--------------------|
| Pct. Manual Payment | Pct. Coin Machine Payment | Pct. ETC-Only Payment | Manual Avg. Service Time | Coin Avg. Service Time | ETC Free-Flow Speed | Prop. Trad. Demand |
| | | | | | | |

Segment Results and LOS

| Seg # | From | To | Analysis Type | Analysis Volume (pc/h) | Capacity (pc/h) | v/c Ratio | Avg. Speed (mi/h) | Density (pc/h/ln) | LOS | Sig Impact | |
|-----------------------|---------------|------------------|---------------|------------------------|-----------------|-------------------|-------------------|-------------------|-------------|------------|----------|
| 1 | | | Basic Segment | 3385 | 4800 | 0,71 | 69,7 | 24,3 | C | N/A | |
| Freeway Length | 1,0000 | FFS Delay | 3,7 | Threshold Delay | 0,0 | Avg. Speed | 69,7 | Density | 24,3 | LOS | D |

Service Volumes

Note: The maximum normally acceptable directional service volume for LOS E in Florida for this facility type and area type is 2100 veh/h/ln.

| | A | B | C | D | E |
|--------------|---|--------|--------|--------|--------|
| Lanes | Hourly Volume In Peak Direction | | | | |
| 4 | 1180 | 2000 | 2680 | 3160 | 3560 |
| 6 | 1780 | 3000 | 3980 | 4740 | 5340 |
| 8 | 2380 | 4000 | 5320 | 6300 | 7120 |
| 10 | 2980 | 5000 | 6620 | 7880 | 8920 |
| 12 | 3580 | 6000 | 7980 | 9460 | 10700 |
| Lanes | Peak Hour Volume Both Directions | | | | |
| 4 | 2140 | 3640 | 4870 | 5730 | 6490 |
| 6 | 3230 | 5460 | 7230 | 8600 | 9720 |
| 8 | 4320 | 7280 | 9690 | 11460 | 12960 |
| 10 | 5410 | 9100 | 12050 | 14330 | 16210 |
| 12 | 6500 | 10910 | 14500 | 17190 | 19450 |
| Lanes | Annual Average Daily Traffic | | | | |
| 4 | 23800 | 40500 | 54100 | 63700 | 72100 |
| 6 | 35900 | 60700 | 80400 | 95600 | 108000 |
| 8 | 48000 | 80900 | 107600 | 127300 | 144000 |
| 10 | 60200 | 101100 | 133900 | 159200 | 180200 |
| 12 | 72300 | 121300 | 161200 | 191000 | 216100 |

FREEPLAN 2012 Conceptual Planning Analysis

Project Information

| | | | | | |
|----------------------|--------------------|-----------------------|------------|---------------------|-------------------|
| Analyst | | Freeway Name | V-30 | Study Period | Standard K |
| Date Prepared | 10/5/2020 12:31:45 | From | | Program | FREEPLAN 2012 |
| Agency | | To | | Version Date | 12/12/2012 |
| Area Type | Large Urbanized | Peak Direction | Southbound | | |
| File Name | | | | | |
| User Notes | Año 2030 | | | | |

Freeway Data

| | | | | | |
|-------------|-------|--|-------|--------------------------------|------|
| AADT | 61818 | Freeway Input Volume | 3060 | Local Adjustment Factor | 1,00 |
| K | 0,09 | PHF | 0,9 | Ramp Metering Exists | No |
| D | 0,55 | Percent Trucks Entering First Segment | 27,93 | | |

Segment Data

| Seg # | From | To | Input Type | Length (ft) | Hourly Volume (veh/h) | # Lanes | Posted Speed (mi/h) | Free-Flow Speed (mi/h) | Terrain |
|-------|------|----|---------------|-------------|-----------------------|---------|---------------------|------------------------|---------|
| 1 | | | Basic Segment | 5280 | 3060 | 2 | 70 | 75 | Level |

Time Period Independent Weaving Segment Data

| Seg # | Configuration | Short Length (ft) | # Weaving Lanes | Min. Lane Changes Freeway-Ramp | Min. Lane Changes Ramp-Freeway | Min. Lane Changes Ramp-Ramp |
|-------|---------------|-------------------|-----------------|--------------------------------|--------------------------------|-----------------------------|
| | | | | | | |

Ramp Descriptions

| Segment | Type | On-Ramp | | | | | Off-Ramp | | | | |
|---------|------|-----------------------|-----|-------|----------------------|-----|-----------------------|-----|-------|----------------------|-----|
| | | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS |
| | | | | | | | | | | | |

Toll Plaza Input Data

| Segment | Configuration | Number of Manual Lanes | Number of Coin Machine Lanes | Number of ETC-Only Lanes | | |
|---------------------|---------------------------|------------------------|------------------------------|--------------------------|---------------------|--------------------|
| Pct. Manual Payment | Pct. Coin Machine Payment | Pct. ETC-Only Payment | Manual Avg. Service Time | Coin Avg. Service Time | ETC Free-Flow Speed | Prop. Trad. Demand |
| | | | | | | |

Segment Results and LOS

| Seg # | From | To | Analysis Type | Analysis Volume (pc/h) | Capacity (pc/h) | v/c Ratio | Avg. Speed (mi/h) | Density (pc/h/ln) | LOS | Sig Impact | |
|-----------------------|---------------|------------------|---------------|------------------------|-----------------|-------------------|-------------------|-------------------|-------------|------------|----------|
| 1 | | | Basic Segment | 3875 | 4800 | 0,81 | 65,3 | 29,7 | D | N/A | |
| Freeway Length | 1,0000 | FFS Delay | 7,2 | Threshold Delay | 0,0 | Avg. Speed | 65,3 | Density | 29,7 | LOS | D |

Service Volumes

Note: The maximum normally acceptable directional service volume for LOS E in Florida for this facility type and area type is 2100 veh/h/ln.

| | A | B | C | D | E |
|--------------|---|--------|--------|--------|--------|
| Lanes | Hourly Volume In Peak Direction | | | | |
| 4 | 1180 | 2000 | 2680 | 3140 | 3560 |
| 6 | 1780 | 3000 | 3980 | 4720 | 5340 |
| 8 | 2380 | 4000 | 5320 | 6280 | 7100 |
| 10 | 2980 | 5000 | 6620 | 7860 | 8880 |
| 12 | 3580 | 6000 | 7980 | 9440 | 10660 |
| Lanes | Peak Hour Volume Both Directions | | | | |
| 4 | 2140 | 3640 | 4870 | 5710 | 6470 |
| 6 | 3230 | 5460 | 7230 | 8570 | 9700 |
| 8 | 4320 | 7280 | 9690 | 11420 | 12920 |
| 10 | 5410 | 9100 | 12050 | 14280 | 16160 |
| 12 | 6500 | 10910 | 14500 | 17150 | 19400 |
| Lanes | Annual Average Daily Traffic | | | | |
| 4 | 23800 | 40500 | 54100 | 63500 | 71900 |
| 6 | 35900 | 60700 | 80400 | 95200 | 107800 |
| 8 | 48000 | 80900 | 107600 | 126900 | 143600 |
| 10 | 60200 | 101100 | 133900 | 158600 | 179500 |
| 12 | 72300 | 121300 | 161200 | 190600 | 215500 |

FREEPLAN 2012 Conceptual Planning Analysis

Project Information

| | | | | | |
|----------------------|--------------------|-----------------------|------------|---------------------|-------------------|
| Analyst | | Freeway Name | V-30 | Study Period | Standard K |
| Date Prepared | 10/5/2020 12:31:45 | From | | Program | FREEPLAN 2012 |
| Agency | | To | | Version Date | 12/12/2012 |
| Area Type | Large Urbanized | Peak Direction | Southbound | | |
| File Name | | | | | |
| User Notes | Año 2040 | | | | |

Freeway Data

| | | | | | |
|-------------|-------|--|------|--------------------------------|------|
| AADT | 79993 | Freeway Input Volume | 3960 | Local Adjustment Factor | 1,00 |
| K | 0,09 | PHF | 0,9 | Ramp Metering Exists | No |
| D | 0,55 | Percent Trucks Entering First Segment | 28,7 | | |

Segment Data

| Seg # | From | To | Input Type | Length (ft) | Hourly Volume (veh/h) | # Lanes | Posted Speed (mi/h) | Free-Flow Speed (mi/h) | Terrain |
|-------|------|----|---------------|-------------|-----------------------|---------|---------------------|------------------------|---------|
| 1 | | | Basic Segment | 5280 | 3960 | 2 | 70 | 75 | Level |

Time Period Independent Weaving Segment Data

| Seg # | Configuration | Short Length (ft) | # Weaving Lanes | Min. Lane Changes Freeway-Ramp | Min. Lane Changes Ramp-Freeway | Min. Lane Changes Ramp-Ramp |
|-------|---------------|-------------------|-----------------|--------------------------------|--------------------------------|-----------------------------|
| | | | | | | |

Ramp Descriptions

| Segment | Type | On-Ramp | | | | | Off-Ramp | | | | |
|---------|------|-----------------------|-----|-------|----------------------|-----|-----------------------|-----|-------|----------------------|-----|
| | | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS |
| | | | | | | | | | | | |

Toll Plaza Input Data

| Segment | Configuration | Number of Manual Lanes | Number of Coin Machine Lanes | Number of ETC-Only Lanes | | |
|---------------------|---------------------------|------------------------|------------------------------|--------------------------|---------------------|--------------------|
| Pct. Manual Payment | Pct. Coin Machine Payment | Pct. ETC-Only Payment | Manual Avg. Service Time | Coin Avg. Service Time | ETC Free-Flow Speed | Prop. Trad. Demand |
| | | | | | | |

Segment Results and LOS

| Seg # | From | To | Analysis Type | Analysis Volume (pc/h) | Capacity (pc/h) | v/c Ratio | Avg. Speed (mi/h) | Density (pc/h/ln) | LOS | Sig Impact | |
|-----------------------|---------------|------------------|---------------|------------------------|-----------------|-------------------|-------------------|-------------------|-----------|------------|----------|
| 1 | | | Basic Segment | 5031 | 4800 | 1,05 | ## | ## | F | N/A | |
| Freeway Length | 1,0000 | FFS Delay | ## | Threshold Delay | ## | Avg. Speed | ## | Density | ## | LOS | F |

Service Volumes

Note: The maximum normally acceptable directional service volume for LOS E in Florida for this facility type and area type is 2100 veh/h/ln.

| | A | B | C | D | E |
|--------------|---|--------|--------|--------|--------|
| Lanes | Hourly Volume In Peak Direction | | | | |
| 4 | 1180 | 2000 | 2620 | 3140 | 3540 |
| 6 | 1780 | 3000 | 3980 | 4700 | 5320 |
| 8 | 2380 | 3960 | 5280 | 6260 | 7080 |
| 10 | 2980 | 4960 | 6620 | 7840 | 8860 |
| 12 | 3520 | 5960 | 7920 | 9400 | 10620 |
| Lanes | Peak Hour Volume Both Directions | | | | |
| 4 | 2140 | 3640 | 4780 | 5700 | 6450 |
| 6 | 3230 | 5460 | 7230 | 8550 | 9670 |
| 8 | 4320 | 7190 | 9600 | 11390 | 12890 |
| 10 | 5410 | 9000 | 12050 | 14240 | 16100 |
| 12 | 6410 | 10820 | 14410 | 17080 | 19320 |
| Lanes | Annual Average Daily Traffic | | | | |
| 4 | 23800 | 40500 | 53100 | 63300 | 71700 |
| 6 | 35900 | 60700 | 80400 | 95000 | 107400 |
| 8 | 48000 | 79800 | 106600 | 126500 | 143200 |
| 10 | 60200 | 100000 | 133900 | 158200 | 178900 |
| 12 | 71300 | 120300 | 160200 | 189700 | 214700 |



Tramo 1

Hipótesis 3

FREEPLAN 2012 Conceptual Planning Analysis

Project Information

| | | | | | |
|----------------------|-------------------|-----------------------|------------|---------------------|-------------------|
| Analyst | | Freeway Name | V-30 | Study Period | Standard K |
| Date Prepared | 2/5/2020 17:09:33 | From | A | Program | FREEPLAN 2012 |
| Agency | | To | B | Version Date | 12/12/2012 |
| Area Type | Large Urbanized | Peak Direction | Southbound | | |
| File Name | | | | | |
| User Notes | Año 2025 | | | | |

Freeway Data

| | | | | | |
|-------------|-------|--|-------|--------------------------------|------|
| AADT | 54006 | Freeway Input Volume | 2673 | Local Adjustment Factor | 1,00 |
| K | 0,09 | PHF | 0,9 | Ramp Metering Exists | No |
| D | 0,55 | Percent Trucks Entering First Segment | 27,08 | | |

Segment Data

| Seg # | From | To | Input Type | Length (ft) | Hourly Volume (veh/h) | # Lanes | Posted Speed (mi/h) | Free-Flow Speed (mi/h) | Terrain |
|-------|------|----|---------------|-------------|-----------------------|---------|---------------------|------------------------|---------|
| 1 | | | Basic Segment | 5280 | 2673 | 2 | 70 | 75 | Level |

Time Period Independent Weaving Segment Data

| Seg # | Configuration | Short Length (ft) | # Weaving Lanes | Min. Lane Changes Freeway-Ramp | Min. Lane Changes Ramp-Freeway | Min. Lane Changes Ramp-Ramp |
|-------|---------------|-------------------|-----------------|--------------------------------|--------------------------------|-----------------------------|
| | | | | | | |

Ramp Descriptions

| Segment | Type | On-Ramp | | | | | Off-Ramp | | | | |
|---------|------|-----------------------|-----|-------|----------------------|-----|-----------------------|-----|-------|----------------------|-----|
| | | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS |
| | | | | | | | | | | | |

Toll Plaza Input Data

| Segment | Configuration | Number of Manual Lanes | Number of Coin Machine Lanes | Number of ETC-Only Lanes | | |
|----------------------------|----------------------------------|------------------------------|---------------------------------|-------------------------------|----------------------------|---------------------------|
| Pct. Manual Payment | Pct. Coin Machine Payment | Pct. ETC-Only Payment | Manual Avg. Service Time | Coin Avg. Service Time | ETC Free-Flow Speed | Prop. Trad. Demand |

Segment Results and LOS

| Seg # | From | To | Analysis Type | Analysis Volume (pc/h) | Capacity (pc/h) | v/c Ratio | Avg. Speed (mi/h) | Density (pc/h/ln) | LOS | Sig Impact | |
|-----------------------|---------------|------------------|---------------|------------------------|-----------------|-------------------|-------------------|-------------------|-------------|------------|----------|
| 1 | | | Basic Segment | 3372 | 4800 | 0,70 | 69,8 | 24,2 | C | N/A | |
| Freeway Length | 1,0000 | FFS Delay | 3,6 | Threshold Delay | 0,0 | Avg. Speed | 69,8 | Density | 24,2 | LOS | D |

Service Volumes

Note: The maximum normally acceptable directional service volume for LOS E in Florida for this facility type and area type is 2100 veh/h/ln.

| | A | B | C | D | E |
|--------------|---|--------|--------|--------|--------|
| Lanes | Hourly Volume In Peak Direction | | | | |
| 4 | 1180 | 2000 | 2680 | 3160 | 3560 |
| 6 | 1780 | 3000 | 3980 | 4740 | 5340 |
| 8 | 2380 | 4000 | 5320 | 6300 | 7120 |
| 10 | 2980 | 5000 | 6620 | 7880 | 8920 |
| 12 | 3580 | 6000 | 7980 | 9460 | 10700 |
| Lanes | Peak Hour Volume Both Directions | | | | |
| 4 | 2140 | 3640 | 4870 | 5730 | 6490 |
| 6 | 3230 | 5460 | 7230 | 8600 | 9720 |
| 8 | 4320 | 7280 | 9690 | 11460 | 12960 |
| 10 | 5410 | 9100 | 12050 | 14330 | 16210 |
| 12 | 6500 | 10910 | 14500 | 17190 | 19450 |
| Lanes | Annual Average Daily Traffic | | | | |
| 4 | 23800 | 40500 | 54100 | 63700 | 72100 |
| 6 | 35900 | 60700 | 80400 | 95600 | 108000 |
| 8 | 48000 | 80900 | 107600 | 127300 | 144000 |
| 10 | 60200 | 101100 | 133900 | 159200 | 180200 |
| 12 | 72300 | 121300 | 161200 | 191000 | 216100 |

FREEPLAN 2012 Conceptual Planning Analysis

Project Information

| | | | | | | |
|----------------------|-------------------|-----------------------|------------|--|---------------------|-------------------|
| Analyst | | Freeway Name | V-30 | | Study Period | Standard K |
| Date Prepared | 2/5/2020 17:09:33 | From | A | | Program | FREEPLAN 2012 |
| Agency | | To | B | | Version Date | 12/12/2012 |
| Area Type | Large Urbanized | Peak Direction | Southbound | | | |
| File Name | | | | | | |
| User Notes | | Año 2030 | | | | |

Freeway Data

| | | | | | |
|-------------|-------|--|-------|--------------------------------|------|
| AADT | 61648 | Freeway Input Volume | 3052 | Local Adjustment Factor | 1,00 |
| K | 0,09 | PHF | 0,9 | Ramp Metering Exists | No |
| D | 0,55 | Percent Trucks Entering First Segment | 27,73 | | |

Segment Data

| Seg # | From | To | Input Type | Length (ft) | Hourly Volume (veh/h) | # Lanes | Posted Speed (mi/h) | Free-Flow Speed (mi/h) | Terrain |
|-------|------|----|---------------|-------------|-----------------------|---------|---------------------|------------------------|---------|
| 1 | | | Basic Segment | 5280 | 3052 | 2 | 70 | 75 | Level |

Time Period Independent Weaving Segment Data

| Seg # | Configuration | Short Length (ft) | # Weaving Lanes | Min. Lane Changes Freeway-Ramp | Min. Lane Changes Ramp-Freeway | Min. Lane Changes Ramp-Ramp |
|-------|---------------|-------------------|-----------------|--------------------------------|--------------------------------|-----------------------------|
| | | | | | | |

Ramp Descriptions

| Segment | Type | On-Ramp | | | | | Off-Ramp | | | | |
|---------|------|-----------------------|-----|-------|----------------------|-----|-----------------------|-----|-------|----------------------|-----|
| | | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS |
| | | | | | | | | | | | |

Toll Plaza Input Data

| Segment | Configuration | Number of Manual Lanes | Number of Coin Machine Lanes | Number of ETC-Only Lanes | | |
|---------------------|---------------------------|------------------------|------------------------------|--------------------------|---------------------|--------------------|
| Pct. Manual Payment | Pct. Coin Machine Payment | Pct. ETC-Only Payment | Manual Avg. Service Time | Coin Avg. Service Time | ETC Free-Flow Speed | Prop. Trad. Demand |
| | | | | | | |

Segment Results and LOS

| Seg # | From | To | Analysis Type | Analysis Volume (pc/h) | Capacity (pc/h) | v/c Ratio | Avg. Speed (mi/h) | Density (pc/h/ln) | LOS | Sig Impact | |
|-----------------------|---------------|------------------|---------------|------------------------|-----------------|-------------------|-------------------|-------------------|-------------|------------|----------|
| 1 | | | Basic Segment | 3861 | 4800 | 0,80 | 65,4 | 29,5 | D | N/A | |
| Freeway Length | 1,0000 | FFS Delay | 7,0 | Threshold Delay | 0,0 | Avg. Speed | 65,4 | Density | 29,5 | LOS | D |

Service Volumes

Note: The maximum normally acceptable directional service volume for LOS E in Florida for this facility type and area type is 2100 veh/h/ln.

| | A | B | C | D | E |
|--------------|---|--------|--------|--------|--------|
| Lanes | Hourly Volume In Peak Direction | | | | |
| 4 | 1180 | 2000 | 2680 | 3140 | 3560 |
| 6 | 1780 | 3000 | 3980 | 4720 | 5340 |
| 8 | 2380 | 4000 | 5320 | 6300 | 7120 |
| 10 | 2980 | 5000 | 6620 | 7860 | 8900 |
| 12 | 3580 | 6000 | 7980 | 9440 | 10680 |
| Lanes | Peak Hour Volume Both Directions | | | | |
| 4 | 2140 | 3640 | 4870 | 5710 | 6470 |
| 6 | 3230 | 5460 | 7230 | 8590 | 9700 |
| 8 | 4320 | 7280 | 9690 | 11440 | 12940 |
| 10 | 5410 | 9100 | 12050 | 14300 | 16180 |
| 12 | 6500 | 10910 | 14500 | 17150 | 19410 |
| Lanes | Annual Average Daily Traffic | | | | |
| 4 | 23800 | 40500 | 54100 | 63500 | 71900 |
| 6 | 35900 | 60700 | 80400 | 95400 | 107800 |
| 8 | 48000 | 80900 | 107600 | 127100 | 143800 |
| 10 | 60200 | 101100 | 133900 | 158800 | 179700 |
| 12 | 72300 | 121300 | 161200 | 190600 | 215700 |

FREEPLAN 2012 Conceptual Planning Analysis

Project Information

| | | | | | |
|----------------------|-------------------|-----------------------|------------|---------------------|-------------------|
| Analyst | | Freeway Name | V-30 | Study Period | Standard K |
| Date Prepared | 2/5/2020 17:09:33 | From | A | Program | FREEPLAN 2012 |
| Agency | | To | B | Version Date | 12/12/2012 |
| Area Type | Large Urbanized | Peak Direction | Southbound | | |
| File Name | | | | | |
| User Notes | Año 2040 | | | | |

Freeway Data

| | | | | | |
|-------------|-------|--|------|--------------------------------|------|
| AADT | 79657 | Freeway Input Volume | 3943 | Local Adjustment Factor | 1,00 |
| K | 0,09 | PHF | 0,9 | Ramp Metering Exists | No |
| D | 0,55 | Percent Trucks Entering First Segment | 28,4 | | |

Segment Data

| Seg # | From | To | Input Type | Length (ft) | Hourly Volume (veh/h) | # Lanes | Posted Speed (mi/h) | Free-Flow Speed (mi/h) | Terrain |
|-------|------|----|---------------|-------------|-----------------------|---------|---------------------|------------------------|---------|
| 1 | | | Basic Segment | 5280 | 3943 | 2 | 70 | 75 | Level |

Time Period Independent Weaving Segment Data

| Seg # | Configuration | Short Length (ft) | # Weaving Lanes | Min. Lane Changes Freeway-Ramp | Min. Lane Changes Ramp-Freeway | Min. Lane Changes Ramp-Ramp |
|-------|---------------|-------------------|-----------------|--------------------------------|--------------------------------|-----------------------------|
| | | | | | | |

Ramp Descriptions

| Segment | Type | On-Ramp | | | | | Off-Ramp | | | | |
|---------|------|-----------------------|-----|-------|----------------------|-----|-----------------------|-----|-------|----------------------|-----|
| | | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS |
| | | | | | | | | | | | |

Toll Plaza Input Data

| Segment | Configuration | Number of Manual Lanes | Number of Coin Machine Lanes | Number of ETC-Only Lanes | | |
|----------------------------|----------------------------------|------------------------------|---------------------------------|-------------------------------|----------------------------|---------------------------|
| Pct. Manual Payment | Pct. Coin Machine Payment | Pct. ETC-Only Payment | Manual Avg. Service Time | Coin Avg. Service Time | ETC Free-Flow Speed | Prop. Trad. Demand |

Segment Results and LOS

| Seg # | From | To | Analysis Type | Analysis Volume (pc/h) | Capacity (pc/h) | v/c Ratio | Avg. Speed (mi/h) | Density (pc/h/ln) | LOS | Sig Impact | |
|-----------------------|---------------|------------------|---------------|------------------------|-----------------|-------------------|-------------------|-------------------|-----------|------------|----------|
| 1 | | | Basic Segment | 5003 | 4800 | 1,04 | ## | ## | F | N/A | |
| Freeway Length | 1,0000 | FFS Delay | ## | Threshold Delay | ## | Avg. Speed | ## | Density | ## | LOS | F |

Service Volumes

Note: The maximum normally acceptable directional service volume for LOS E in Florida for this facility type and area type is 2100 veh/h/ln.

| | A | B | C | D | E |
|--------------|---|--------|--------|--------|--------|
| Lanes | Hourly Volume In Peak Direction | | | | |
| 4 | 1180 | 2000 | 2620 | 3140 | 3540 |
| 6 | 1780 | 3000 | 3980 | 4700 | 5320 |
| 8 | 2380 | 4000 | 5280 | 6280 | 7100 |
| 10 | 2980 | 4960 | 6620 | 7840 | 8860 |
| 12 | 3520 | 5960 | 7920 | 9420 | 10640 |
| Lanes | Peak Hour Volume Both Directions | | | | |
| 4 | 2140 | 3640 | 4780 | 5710 | 6450 |
| 6 | 3230 | 5460 | 7230 | 8550 | 9690 |
| 8 | 4320 | 7280 | 9600 | 11400 | 12900 |
| 10 | 5410 | 9000 | 12050 | 14260 | 16120 |
| 12 | 6410 | 10820 | 14410 | 17110 | 19360 |
| Lanes | Annual Average Daily Traffic | | | | |
| 4 | 23800 | 40500 | 53100 | 63500 | 71700 |
| 6 | 35900 | 60700 | 80400 | 95000 | 107600 |
| 8 | 48000 | 80900 | 106600 | 126700 | 143400 |
| 10 | 60200 | 100000 | 133900 | 158400 | 179100 |
| 12 | 71300 | 120300 | 160200 | 190200 | 215100 |



Tramo 2

Hipótesis 3

FREEPLAN 2012 Conceptual Planning Analysis

Project Information

| | | | | | |
|----------------------|--------------------|-----------------------|------------|---------------------|---------------|
| Analyst | | Freeway Name | V-30 | Study Period | Standard K |
| Date Prepared | 10/5/2020 12:31:45 | From | | Program | FREEPLAN 2012 |
| Agency | | To | | Version Date | 12/12/2012 |
| Area Type | Large Urbanized | Peak Direction | Southbound | | |
| File Name | | | | | |
| User Notes | Año 2025 | | | | |

Freeway Data

| | | | | | |
|-------------|-------|--|------|--------------------------------|------|
| AADT | 90869 | Freeway Input Volume | 4498 | Local Adjustment Factor | 1,00 |
| K | 0,09 | PHF | 0,9 | Ramp Metering Exists | No |
| D | 0,55 | Percent Trucks Entering First Segment | 1,21 | | |

Segment Data

| Seg # | From | To | Input Type | Length (ft) | Hourly Volume (veh/h) | # Lanes | Posted Speed (mi/h) | Free-Flow Speed (mi/h) | Terrain |
|-------|------|----|---------------|-------------|-----------------------|---------|---------------------|------------------------|---------|
| 1 | | | Basic Segment | 5280 | 4498 | 2 | 70 | 75 | Level |

Time Period Independent Weaving Segment Data

| Seg # | Configuration | Short Length (ft) | # Weaving Lanes | Min. Lane Changes Freeway-Ramp | Min. Lane Changes Ramp-Freeway | Min. Lane Changes Ramp-Ramp |
|-------|---------------|-------------------|-----------------|--------------------------------|--------------------------------|-----------------------------|
| | | | | | | |

Ramp Descriptions

| Segment | Type | On-Ramp | | | | | Off-Ramp | | | | |
|---------|------|-----------------------|-----|-------|----------------------|-----|-----------------------|-----|-------|----------------------|-----|
| | | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS |
| | | | | | | | | | | | |

Toll Plaza Input Data

| Segment | Configuration | Number of Manual Lanes | Number of Coin Machine Lanes | Number of ETC-Only Lanes | | |
|---------------------|---------------------------|------------------------|------------------------------|--------------------------|---------------------|--------------------|
| Pct. Manual Payment | Pct. Coin Machine Payment | Pct. ETC-Only Payment | Manual Avg. Service Time | Coin Avg. Service Time | ETC Free-Flow Speed | Prop. Trad. Demand |
| | | | | | | |

Segment Results and LOS

| Seg # | From | To | Analysis Type | Analysis Volume (pc/h) | Capacity (pc/h) | v/c Ratio | Avg. Speed (mi/h) | Density (pc/h/ln) | LOS | Sig Impact | |
|-----------------------|---------------|------------------|---------------|------------------------|-----------------|-------------------|-------------------|-------------------|-----------|------------|----------|
| 1 | | | Basic Segment | 5028 | 4800 | 1,05 | ## | ## | F | N/A | |
| Freeway Length | 1,0000 | FFS Delay | ## | Threshold Delay | ## | Avg. Speed | ## | Density | ## | LOS | F |

Service Volumes

Note: The maximum normally acceptable directional service volume for LOS E in Florida for this facility type and area type is 2100 veh/h/ln.

| | A | B | C | D | E |
|--------------|---|--------|--------|--------|--------|
| Lanes | Hourly Volume In Peak Direction | | | | |
| 4 | 1320 | 2260 | 3020 | 3560 | 4020 |
| 6 | 2020 | 3400 | 4520 | 5340 | 6040 |
| 8 | 2680 | 4500 | 6020 | 7120 | 8060 |
| 10 | 3380 | 5660 | 7520 | 8900 | 10060 |
| 12 | 4020 | 6760 | 9020 | 10680 | 12080 |
| Lanes | Peak Hour Volume Both Directions | | | | |
| 4 | 2410 | 4100 | 5500 | 6480 | 7320 |
| 6 | 3690 | 6190 | 8230 | 9710 | 10980 |
| 8 | 4870 | 8190 | 10960 | 12950 | 14650 |
| 10 | 6140 | 10280 | 13690 | 16190 | 18300 |
| 12 | 7320 | 12280 | 16410 | 19420 | 21960 |
| Lanes | Annual Average Daily Traffic | | | | |
| 4 | 26800 | 45500 | 61200 | 72000 | 81400 |
| 6 | 41000 | 68700 | 91500 | 107900 | 122000 |
| 8 | 54100 | 91000 | 121800 | 143900 | 162800 |
| 10 | 68200 | 114200 | 152100 | 179800 | 203400 |
| 12 | 81400 | 136400 | 182400 | 215800 | 244000 |



Tramo 3

Hipótesis 1

FREEPLAN 2012 Conceptual Planning Analysis

Project Information

| | | | | | |
|----------------------|--------------------|-----------------------|------------|---------------------|-------------------|
| Analyst | | Freeway Name | V-30 | Study Period | Standard K |
| Date Prepared | 10/5/2020 12:31:45 | From | | Program | FREEPLAN 2012 |
| Agency | | To | | Version Date | 12/12/2012 |
| Area Type | Large Urbanized | Peak Direction | Southbound | | |
| File Name | | | | | |
| User Notes | Año 2025 | | | | |

Freeway Data

| | | | | | |
|-------------|--------|--|------|--------------------------------|------|
| AADT | 139175 | Freeway Input Volume | 6889 | Local Adjustment Factor | 1,00 |
| K | 0,09 | PHF | 0,9 | Ramp Metering Exists | No |
| D | 0,55 | Percent Trucks Entering First Segment | 6,54 | | |

Segment Data

| Seg # | From | To | Input Type | Length (ft) | Hourly Volume (veh/h) | # Lanes | Posted Speed (mi/h) | Free-Flow Speed (mi/h) | Terrain |
|-------|------|----|---------------|-------------|-----------------------|---------|---------------------|------------------------|---------|
| 1 | | | Basic Segment | 5280 | 6889 | 4 | 70 | 75 | Level |

Time Period Independent Weaving Segment Data

| Seg # | Configuration | Short Length (ft) | # Weaving Lanes | Min. Lane Changes Freeway-Ramp | Min. Lane Changes Ramp-Freeway | Min. Lane Changes Ramp-Ramp |
|-------|---------------|-------------------|-----------------|--------------------------------|--------------------------------|-----------------------------|
| | | | | | | |

Ramp Descriptions

| Segment | Type | On-Ramp | | | | | Off-Ramp | | | | |
|---------|------|-----------------------|-----|-------|----------------------|-----|-----------------------|-----|-------|----------------------|-----|
| | | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS |
| | | | | | | | | | | | |

Toll Plaza Input Data

| Segment | Configuration | Number of Manual Lanes | Number of Coin Machine Lanes | Number of ETC-Only Lanes | | |
|---------------------|---------------------------|------------------------|------------------------------|--------------------------|---------------------|--------------------|
| Pct. Manual Payment | Pct. Coin Machine Payment | Pct. ETC-Only Payment | Manual Avg. Service Time | Coin Avg. Service Time | ETC Free-Flow Speed | Prop. Trad. Demand |
| | | | | | | |

Segment Results and LOS

| Seg # | From | To | Analysis Type | Analysis Volume (pc/h) | Capacity (pc/h) | v/c Ratio | Avg. Speed (mi/h) | Density (pc/h/ln) | LOS | Sig Impact | |
|-----------------------|---------------|------------------|---------------|------------------------|-----------------|-------------------|-------------------|-------------------|-------------|------------|----------|
| 1 | | | Basic Segment | 7904 | 9600 | 0,82 | 64,5 | 30,7 | D | N/A | |
| Freeway Length | 1,0000 | FFS Delay | 7,9 | Threshold Delay | 0,0 | Avg. Speed | 64,5 | Density | 30,7 | LOS | D |

Service Volumes

Note: The maximum normally acceptable directional service volume for LOS E in Florida for this facility type and area type is 2100 veh/h/ln.

| | A | B | C | D | E |
|--------------|---|--------|--------|--------|--------|
| Lanes | Hourly Volume In Peak Direction | | | | |
| 4 | 1320 | 2200 | 2920 | 3480 | 3920 |
| 6 | 1980 | 3300 | 4380 | 5200 | 5880 |
| 8 | 2620 | 4400 | 5820 | 6940 | 7840 |
| 10 | 3280 | 5500 | 7320 | 8680 | 9800 |
| 12 | 3920 | 6600 | 8780 | 10400 | 11760 |
| Lanes | Peak Hour Volume Both Directions | | | | |
| 4 | 2410 | 4000 | 5320 | 6310 | 7140 |
| 6 | 3600 | 6000 | 7960 | 9460 | 10700 |
| 8 | 4780 | 8000 | 10600 | 12600 | 14270 |
| 10 | 5960 | 10000 | 13320 | 15770 | 17830 |
| 12 | 7140 | 12000 | 15960 | 18910 | 21400 |
| Lanes | Annual Average Daily Traffic | | | | |
| 4 | 26800 | 44500 | 59100 | 70200 | 79300 |
| 6 | 39900 | 66700 | 88400 | 105100 | 118900 |
| 8 | 53100 | 88900 | 117700 | 140000 | 158500 |
| 10 | 66200 | 111200 | 148000 | 175200 | 198100 |
| 12 | 79300 | 133400 | 177300 | 210200 | 237700 |

FREEPLAN 2012 Conceptual Planning Analysis

Project Information

| | | | | | |
|----------------------|--------------------|-----------------------|------------|---------------------|-------------------|
| Analyst | | Freeway Name | V-30 | Study Period | Standard K |
| Date Prepared | 10/5/2020 12:31:45 | From | | Program | FREEPLAN 2012 |
| Agency | | To | | Version Date | 12/12/2012 |
| Area Type | Large Urbanized | Peak Direction | Southbound | | |
| File Name | | | | | |
| User Notes | Año 2030 | | | | |

Freeway Data

| | | | | | |
|-------------|--------|--|------|--------------------------------|------|
| AADT | 158611 | Freeway Input Volume | 7851 | Local Adjustment Factor | 1,00 |
| K | 0,09 | PHF | 0,9 | Ramp Metering Exists | No |
| D | 0,55 | Percent Trucks Entering First Segment | 7,21 | | |

Segment Data

| Seg # | From | To | Input Type | Length (ft) | Hourly Volume (veh/h) | # Lanes | Posted Speed (mi/h) | Free-Flow Speed (mi/h) | Terrain |
|-------|------|----|---------------|-------------|-----------------------|---------|---------------------|------------------------|---------|
| 1 | | | Basic Segment | 5280 | 7851 | 4 | 70 | 75 | Level |

Time Period Independent Weaving Segment Data

| Seg # | Configuration | Short Length (ft) | # Weaving Lanes | Min. Lane Changes Freeway-Ramp | Min. Lane Changes Ramp-Freeway | Min. Lane Changes Ramp-Ramp |
|-------|---------------|-------------------|-----------------|--------------------------------|--------------------------------|-----------------------------|
| | | | | | | |

Ramp Descriptions

| Segment | Type | On-Ramp | | | | | Off-Ramp | | | | |
|---------|------|-----------------------|-----|-------|----------------------|-----|-----------------------|-----|-------|----------------------|-----|
| | | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS |
| | | | | | | | | | | | |

Toll Plaza Input Data

| Segment | Configuration | Number of Manual Lanes | Number of Coin Machine Lanes | Number of ETC-Only Lanes | | |
|---------------------|---------------------------|------------------------|------------------------------|--------------------------|---------------------|--------------------|
| Pct. Manual Payment | Pct. Coin Machine Payment | Pct. ETC-Only Payment | Manual Avg. Service Time | Coin Avg. Service Time | ETC Free-Flow Speed | Prop. Trad. Demand |
| | | | | | | |

Segment Results and LOS

| Seg # | From | To | Analysis Type | Analysis Volume (pc/h) | Capacity (pc/h) | v/c Ratio | Avg. Speed (mi/h) | Density (pc/h/ln) | LOS | Sig Impact | |
|----------------|--------|-----------|---------------|------------------------|-----------------|------------|-------------------|-------------------|-----|------------|---|
| 1 | | | Basic Segment | 9037 | 9600 | 0,94 | 57,4 | 39,3 | E | N/A | |
| Freeway Length | 1,0000 | FFS Delay | ## | Threshold Delay | ## | Avg. Speed | ## | Density | ## | LOS | F |

Service Volumes

Note: The maximum normally acceptable directional service volume for LOS E in Florida for this facility type and area type is 2100 veh/h/ln.

| | A | B | C | D | E |
|--------------|---|--------|--------|--------|--------|
| Lanes | Hourly Volume In Peak Direction | | | | |
| 4 | 1320 | 2200 | 2920 | 3460 | 3900 |
| 6 | 1980 | 3300 | 4380 | 5180 | 5860 |
| 8 | 2620 | 4400 | 5820 | 6920 | 7820 |
| 10 | 3280 | 5500 | 7280 | 8640 | 9780 |
| 12 | 3920 | 6600 | 8720 | 10380 | 11720 |
| Lanes | Peak Hour Volume Both Directions | | | | |
| 4 | 2410 | 4000 | 5320 | 6300 | 7100 |
| 6 | 3600 | 6000 | 7960 | 9420 | 10670 |
| 8 | 4780 | 8000 | 10600 | 12570 | 14210 |
| 10 | 5960 | 10000 | 13230 | 15710 | 17780 |
| 12 | 7140 | 12000 | 15870 | 18860 | 21320 |
| Lanes | Annual Average Daily Traffic | | | | |
| 4 | 26800 | 44500 | 59100 | 69900 | 78900 |
| 6 | 39900 | 66700 | 88400 | 104700 | 118500 |
| 8 | 53100 | 88900 | 117700 | 139600 | 157900 |
| 10 | 66200 | 111200 | 147000 | 174600 | 197500 |
| 12 | 79300 | 133400 | 176300 | 209500 | 236900 |



Tramo 3

Hipótesis 2

FREEPLAN 2012 Conceptual Planning Analysis

Project Information

| | | | | | |
|----------------------|--------------------|-----------------------|------------|---------------------|-------------------|
| Analyst | | Freeway Name | V-30 | Study Period | Standard K |
| Date Prepared | 10/5/2020 12:31:45 | From | | Program | FREEPLAN 2012 |
| Agency | | To | | Version Date | 12/12/2012 |
| Area Type | Large Urbanized | Peak Direction | Southbound | | |
| File Name | | | | | |
| User Notes | Año 2030 | | | | |

Freeway Data

| | | | | | |
|-------------|--------|---|------|--------------------------------|------|
| AADT | 157957 | Freeway Input Volume | 7819 | Local Adjustment Factor | 1,00 |
| K | 0,09 | PHF | 0,9 | Ramp Metering Exists | No |
| D | 0,55 | Pecent Trucks Entering First Segment | 6,83 | | |

Segment Data

| Seg # | From | To | Input Type | Length (ft) | Hourly Volume (veh/h) | # Lanes | Posted Speed (mi/h) | Free-Flow Speed (mi/h) | Terrain |
|-------|------|----|---------------|-------------|-----------------------|---------|---------------------|------------------------|---------|
| 1 | | | Basic Segment | 5280 | 7819 | 4 | 70 | 75 | Level |

Time Period Independent Weaving Segment Data

| Seg # | Configuration | Short Length (ft) | # Weaving Lanes | Min. Lane Changes Freeway-Ramp | Min. Lane Changes Ramp-Freeway | Min. Lane Changes Ramp-Ramp |
|-------|---------------|-------------------|-----------------|--------------------------------|--------------------------------|-----------------------------|
| | | | | | | |

Ramp Descriptions

| Segment | Type | On-Ramp | | | | | Off-Ramp | | | | |
|---------|------|-----------------------|-----|-------|----------------------|-----|-----------------------|-----|-------|----------------------|-----|
| | | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS |
| | | | | | | | | | | | |

Toll Plaza Input Data

| Segment | Configuration | Number of Manual Lanes | Number of Coin Machine Lanes | Number of ETC-Only Lanes | | |
|---------------------|---------------------------|------------------------|------------------------------|--------------------------|---------------------|--------------------|
| Pct. Manual Payment | Pct. Coin Machine Payment | Pct. ETC-Only Payment | Manual Avg. Service Time | Coin Avg. Service Time | ETC Free-Flow Speed | Prop. Trad. Demand |
| | | | | | | |

Segment Results and LOS

| Seg # | From | To | Analysis Type | Analysis Volume (pc/h) | Capacity (pc/h) | v/c Ratio | Avg. Speed (mi/h) | Density (pc/h/ln) | LOS | Sig Impact | |
|-----------------------|---------------|------------------|---------------|------------------------|-----------------|-------------------|-------------------|-------------------|-------------|------------|----------|
| 1 | | | Basic Segment | 8985 | 9600 | 0,94 | 57,8 | 38,9 | E | N/A | |
| Freeway Length | 1,0000 | FFS Delay | 14,3 | Threshold Delay | 4,4 | Avg. Speed | 57,8 | Density | 38,9 | LOS | E |

Service Volumes

Note: The maximum normally acceptable directional service volume for LOS E in Florida for this facility type and area type is 2100 veh/h/ln.

| | A | B | C | D | E |
|--------------|---|--------|--------|--------|--------|
| Lanes | Hourly Volume In Peak Direction | | | | |
| 4 | 1320 | 2200 | 2920 | 3460 | 3920 |
| 6 | 1980 | 3300 | 4380 | 5200 | 5880 |
| 8 | 2620 | 4400 | 5820 | 6940 | 7840 |
| 10 | 3280 | 5500 | 7320 | 8660 | 9800 |
| 12 | 3920 | 6600 | 8780 | 10400 | 11740 |
| Lanes | Peak Hour Volume Both Directions | | | | |
| 4 | 2410 | 4000 | 5320 | 6300 | 7120 |
| 6 | 3600 | 6000 | 7960 | 9440 | 10690 |
| 8 | 4780 | 8000 | 10600 | 12600 | 14250 |
| 10 | 5960 | 10000 | 13320 | 15750 | 17810 |
| 12 | 7140 | 12000 | 15960 | 18900 | 21360 |
| Lanes | Annual Average Daily Traffic | | | | |
| 4 | 26800 | 44500 | 59100 | 69900 | 79100 |
| 6 | 39900 | 66700 | 88400 | 104900 | 118700 |
| 8 | 53100 | 88900 | 117700 | 140000 | 158300 |
| 10 | 66200 | 111200 | 148000 | 175000 | 197900 |
| 12 | 79300 | 133400 | 177300 | 209900 | 237300 |



Tramo 3

Hipótesis 3

FREEPLAN 2012 Conceptual Planning Analysis

Project Information

| | | | | | |
|----------------------|--------------------|-----------------------|------------|---------------------|-------------------|
| Analyst | | Freeway Name | V-30 | Study Period | Standard K |
| Date Prepared | 10/5/2020 12:31:45 | From | | Program | FREEPLAN 2012 |
| Agency | | To | | Version Date | 12/12/2012 |
| Area Type | Large Urbanized | Peak Direction | Southbound | | |
| File Name | | | | | |
| User Notes | Año 2030 | | | | |

Freeway Data

| | | | | | |
|-------------|--------|---|------|--------------------------------|------|
| AADT | 157957 | Freeway Input Volume | 7819 | Local Adjustment Factor | 1,00 |
| K | 0,09 | PHF | 0,9 | Ramp Metering Exists | No |
| D | 0,55 | Pecent Trucks Entering First Segment | 6,83 | | |

Segment Data

| Seg # | From | To | Input Type | Length (ft) | Hourly Volume (veh/h) | # Lanes | Posted Speed (mi/h) | Free-Flow Speed (mi/h) | Terrain |
|-------|------|----|---------------|-------------|-----------------------|---------|---------------------|------------------------|---------|
| 1 | | | Basic Segment | 5280 | 7819 | 4 | 70 | 75 | Level |

Time Period Independent Weaving Segment Data

| Seg # | Configuration | Short Length (ft) | # Weaving Lanes | Min. Lane Changes Freeway-Ramp | Min. Lane Changes Ramp-Freeway | Min. Lane Changes Ramp-Ramp |
|-------|---------------|-------------------|-----------------|--------------------------------|--------------------------------|-----------------------------|
| | | | | | | |

Ramp Descriptions

| Segment | Type | On-Ramp | | | | | Off-Ramp | | | | |
|---------|------|-----------------------|-----|-------|----------------------|-----|-----------------------|-----|-------|----------------------|-----|
| | | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS |
| | | | | | | | | | | | |

Toll Plaza Input Data

| Segment | Configuration | Number of Manual Lanes | Number of Coin Machine Lanes | Number of ETC-Only Lanes | | |
|---------------------|---------------------------|------------------------|------------------------------|--------------------------|---------------------|--------------------|
| Pct. Manual Payment | Pct. Coin Machine Payment | Pct. ETC-Only Payment | Manual Avg. Service Time | Coin Avg. Service Time | ETC Free-Flow Speed | Prop. Trad. Demand |
| | | | | | | |

Segment Results and LOS

| Seg # | From | To | Analysis Type | Analysis Volume (pc/h) | Capacity (pc/h) | v/c Ratio | Avg. Speed (mi/h) | Density (pc/h/ln) | LOS | Sig Impact | |
|-----------------------|---------------|------------------|---------------|------------------------|-----------------|-------------------|-------------------|-------------------|-------------|------------|----------|
| 1 | | | Basic Segment | 8985 | 9600 | 0,94 | 57,8 | 38,9 | E | N/A | |
| Freeway Length | 1,0000 | FFS Delay | 14,3 | Threshold Delay | 4,4 | Avg. Speed | 57,8 | Density | 38,9 | LOS | E |

Service Volumes

Note: The maximum normally acceptable directional service volume for LOS E in Florida for this facility type and area type is 2100 veh/h/ln.

| | A | B | C | D | E |
|--------------|---|--------|--------|--------|--------|
| Lanes | Hourly Volume In Peak Direction | | | | |
| 4 | 1320 | 2200 | 2920 | 3460 | 3920 |
| 6 | 1980 | 3300 | 4380 | 5200 | 5880 |
| 8 | 2620 | 4400 | 5820 | 6940 | 7840 |
| 10 | 3280 | 5500 | 7320 | 8660 | 9800 |
| 12 | 3920 | 6600 | 8780 | 10400 | 11740 |
| Lanes | Peak Hour Volume Both Directions | | | | |
| 4 | 2410 | 4000 | 5320 | 6300 | 7120 |
| 6 | 3600 | 6000 | 7960 | 9440 | 10690 |
| 8 | 4780 | 8000 | 10600 | 12600 | 14250 |
| 10 | 5960 | 10000 | 13320 | 15750 | 17810 |
| 12 | 7140 | 12000 | 15960 | 18900 | 21360 |
| Lanes | Annual Average Daily Traffic | | | | |
| 4 | 26800 | 44500 | 59100 | 69900 | 79100 |
| 6 | 39900 | 66700 | 88400 | 104900 | 118700 |
| 8 | 53100 | 88900 | 117700 | 140000 | 158300 |
| 10 | 66200 | 111200 | 148000 | 175000 | 197900 |
| 12 | 79300 | 133400 | 177300 | 209900 | 237300 |



Tramo 4

Hipótesis 3

FREEPLAN 2012 Conceptual Planning Analysis

Project Information

| | | | | | |
|----------------------|--------------------|-----------------------|------------|---------------------|-------------------|
| Analyst | | Freeway Name | V-30 | Study Period | Standard K |
| Date Prepared | 10/5/2020 12:31:45 | From | | Program | FREEPLAN 2012 |
| Agency | | To | | Version Date | 12/12/2012 |
| Area Type | Large Urbanized | Peak Direction | Southbound | | |
| File Name | | | | | |
| User Notes | Año 2025 | | | | |

Freeway Data

| | | | | | |
|-------------|--------|---|-------|--------------------------------|------|
| AADT | 154173 | Freeway Input Volume | 7632 | Local Adjustment Factor | 1,00 |
| K | 0,09 | PHF | 0,9 | Ramp Metering Exists | No |
| D | 0,55 | Pecent Trucks Entering First Segment | 18,44 | | |

Segment Data

| Seg # | From | To | Input Type | Length (ft) | Hourly Volume (veh/h) | # Lanes | Posted Speed (mi/h) | Free-Flow Speed (mi/h) | Terrain |
|-------|------|----|---------------|-------------|-----------------------|---------|---------------------|------------------------|---------|
| 1 | | | Basic Segment | 5280 | 7632 | 4 | 70 | 75 | Level |

Time Period Independent Weaving Segment Data

| Seg # | Configuration | Short Length (ft) | # Weaving Lanes | Min. Lane Changes Freeway-Ramp | Min. Lane Changes Ramp-Freeway | Min. Lane Changes Ramp-Ramp |
|-------|---------------|-------------------|-----------------|--------------------------------|--------------------------------|-----------------------------|
| | | | | | | |

Ramp Descriptions

| Segment | Type | On-Ramp | | | | | Off-Ramp | | | | |
|---------|------|-----------------------|-----|-------|----------------------|-----|-----------------------|-----|-------|----------------------|-----|
| | | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS |
| | | | | | | | | | | | |

Toll Plaza Input Data

| Segment | Configuration | Number of Manual Lanes | Number of Coin Machine Lanes | Number of ETC-Only Lanes | | |
|---------------------|---------------------------|------------------------|------------------------------|--------------------------|---------------------|--------------------|
| Pct. Manual Payment | Pct. Coin Machine Payment | Pct. ETC-Only Payment | Manual Avg. Service Time | Coin Avg. Service Time | ETC Free-Flow Speed | Prop. Trad. Demand |
| | | | | | | |

Segment Results and LOS

| Seg # | From | To | Analysis Type | Analysis Volume (pc/h) | Capacity (pc/h) | v/c Ratio | Avg. Speed (mi/h) | Density (pc/h/ln) | LOS | Sig Impact | |
|----------------|--------|-----------|---------------|------------------------|-----------------|------------|-------------------|-------------------|-----|------------|---|
| 1 | | | Basic Segment | 9262 | 9600 | 0,96 | 55,8 | 41,5 | E | N/A | |
| Freeway Length | 1,0000 | FFS Delay | ## | Threshold Delay | ## | Avg. Speed | ## | Density | ## | LOS | F |

Service Volumes

Note: The maximum normally acceptable directional service volume for LOS E in Florida for this facility type and area type is 2100 veh/h/ln.

| | A | B | C | D | E |
|--------------|---|--------|--------|--------|--------|
| Lanes | Hourly Volume In Peak Direction | | | | |
| 4 | 1220 | 2100 | 2780 | 3280 | 3700 |
| 6 | 1880 | 3100 | 4120 | 4920 | 5560 |
| 8 | 2480 | 4160 | 5520 | 6560 | 7420 |
| 10 | 3080 | 5200 | 6920 | 8200 | 9280 |
| 12 | 3720 | 6260 | 8280 | 9840 | 11120 |
| Lanes | Peak Hour Volume Both Directions | | | | |
| 4 | 2230 | 3820 | 5050 | 5970 | 6740 |
| 6 | 3410 | 5640 | 7500 | 8950 | 10120 |
| 8 | 4500 | 7550 | 10050 | 11930 | 13490 |
| 10 | 5600 | 9460 | 12600 | 14910 | 16870 |
| 12 | 6780 | 11370 | 15050 | 17880 | 20230 |
| Lanes | Annual Average Daily Traffic | | | | |
| 4 | 24800 | 42500 | 56100 | 66300 | 74900 |
| 6 | 37900 | 62700 | 83400 | 99400 | 112500 |
| 8 | 50000 | 83900 | 111700 | 132600 | 149800 |
| 10 | 62200 | 105100 | 139900 | 165700 | 187400 |
| 12 | 75300 | 126300 | 167200 | 198600 | 224800 |



Tramo 5

Hipótesis 1

FREEPLAN 2012 Conceptual Planning Analysis

Project Information

| | | | | | |
|----------------------|-------------------|-----------------------|------------|---------------------|-------------------|
| Analyst | | Freeway Name | V-30 | Study Period | Standard K |
| Date Prepared | 2/5/2020 17:09:33 | From | A | Program | FREEPLAN 2012 |
| Agency | | To | B | Version Date | 12/12/2012 |
| Area Type | Large Urbanized | Peak Direction | Southbound | | |
| File Name | | | | | |
| User Notes | Año 2030 | | | | |

Freeway Data

| | | | | | |
|-------------|-------|--|-------|--------------------------------|------|
| AADT | 68148 | Freeway Input Volume | 3373 | Local Adjustment Factor | 1,00 |
| K | 0,09 | PHF | 0,9 | Ramp Metering Exists | No |
| D | 0,55 | Percent Trucks Entering First Segment | 18,35 | | |

Segment Data

| Seg # | From | To | Input Type | Length (ft) | Hourly Volume (veh/h) | # Lanes | Posted Speed (mi/h) | Free-Flow Speed (mi/h) | Terrain |
|-------|------|----|---------------|-------------|-----------------------|---------|---------------------|------------------------|---------|
| 1 | | | Basic Segment | 5280 | 3373 | 4 | 70 | 75 | Level |

Time Period Independent Weaving Segment Data

| Seg # | Configuration | Short Length (ft) | # Weaving Lanes | Min. Lane Changes Freeway-Ramp | Min. Lane Changes Ramp-Freeway | Min. Lane Changes Ramp-Ramp |
|-------|---------------|-------------------|-----------------|--------------------------------|--------------------------------|-----------------------------|
| | | | | | | |

Ramp Descriptions

| Segment | Type | On-Ramp | | | | | Off-Ramp | | | | |
|---------|------|-----------------------|-----|-------|----------------------|-----|-----------------------|-----|-------|----------------------|-----|
| | | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS |
| | | | | | | | | | | | |

Toll Plaza Input Data

| Segment | Configuration | Number of Manual Lanes | Number of Coin Machine Lanes | Number of ETC-Only Lanes | | |
|----------------------------|----------------------------------|------------------------------|---------------------------------|-------------------------------|----------------------------|---------------------------|
| Pct. Manual Payment | Pct. Coin Machine Payment | Pct. ETC-Only Payment | Manual Avg. Service Time | Coin Avg. Service Time | ETC Free-Flow Speed | Prop. Trad. Demand |

Segment Results and LOS

| Seg # | From | To | Analysis Type | Analysis Volume (pc/h) | Capacity (pc/h) | v/c Ratio | Avg. Speed (mi/h) | Density (pc/h/ln) | LOS | Sig Impact | |
|-----------------------|---------------|------------------|---------------|------------------------|-----------------|-------------------|-------------------|-------------------|-------------|------------|----------|
| 1 | | | Basic Segment | 4092 | 9600 | 0,43 | 75,0 | 13,6 | B | N/A | |
| Freeway Length | 1,0000 | FFS Delay | 0,0 | Threshold Delay | 0,0 | Avg. Speed | 75,0 | Density | 13,6 | LOS | B |

Service Volumes

Note: The maximum normally acceptable directional service volume for LOS E in Florida for this facility type and area type is 2100 veh/h/ln.

| Lanes | A | B | C | D | E |
|-------|---|--------|--------|--------|--------|
| | Hourly Volume In Peak Direction | | | | |
| 4 | 1220 | 2100 | 2780 | 3280 | 3720 |
| 6 | 1880 | 3100 | 4120 | 4920 | 5560 |
| 8 | 2480 | 4160 | 5520 | 6560 | 7420 |
| 10 | 3080 | 5200 | 6920 | 8200 | 9280 |
| 12 | 3720 | 6260 | 8280 | 9840 | 11120 |
| | Peak Hour Volume Both Directions | | | | |
| 4 | 2230 | 3820 | 5050 | 5970 | 6760 |
| 6 | 3410 | 5640 | 7500 | 8950 | 10120 |
| 8 | 4500 | 7550 | 10050 | 11930 | 13500 |
| 10 | 5600 | 9460 | 12600 | 14910 | 16870 |
| 12 | 6780 | 11370 | 15050 | 17900 | 20230 |
| | Annual Average Daily Traffic | | | | |
| 4 | 24800 | 42500 | 56100 | 66300 | 75100 |
| 6 | 37900 | 62700 | 83400 | 99400 | 112500 |
| 8 | 50000 | 83900 | 111700 | 132600 | 150000 |
| 10 | 62200 | 105100 | 139900 | 165700 | 187400 |
| 12 | 75300 | 126300 | 167200 | 198800 | 224800 |

FREEPLAN 2012 Conceptual Planning Analysis

Project Information

| | | | | | |
|----------------------|-------------------|-----------------------|------------|---------------------|-------------------|
| Analyst | | Freeway Name | V-30 | Study Period | Standard K |
| Date Prepared | 2/5/2020 17:09:33 | From | A | Program | FREEPLAN 2012 |
| Agency | | To | B | Version Date | 12/12/2012 |
| Area Type | Large Urbanized | Peak Direction | Southbound | | |
| File Name | | | | | |
| User Notes | Año 2050 | | | | |

Freeway Data

| | | | | | |
|-------------|--------|--|-------|--------------------------------|------|
| AADT | 115322 | Freeway Input Volume | 5708 | Local Adjustment Factor | 1,00 |
| K | 0,09 | PHF | 0,9 | Ramp Metering Exists | No |
| D | 0,55 | Percent Trucks Entering First Segment | 20,94 | | |

Segment Data

| Seg # | From | To | Input Type | Length (ft) | Hourly Volume (veh/h) | # Lanes | Posted Speed (mi/h) | Free-Flow Speed (mi/h) | Terrain |
|-------|------|----|---------------|-------------|-----------------------|---------|---------------------|------------------------|---------|
| 1 | | | Basic Segment | 5280 | 5708 | 4 | 70 | 75 | Level |

Time Period Independent Weaving Segment Data

| Seg # | Configuration | Short Length (ft) | # Weaving Lanes | Min. Lane Changes Freeway-Ramp | Min. Lane Changes Ramp-Freeway | Min. Lane Changes Ramp-Ramp |
|-------|---------------|-------------------|-----------------|--------------------------------|--------------------------------|-----------------------------|
| | | | | | | |

Ramp Descriptions

| Segment | Type | On-Ramp | | | | | Off-Ramp | | | | |
|---------|------|-----------------------|-----|-------|----------------------|-----|-----------------------|-----|-------|----------------------|-----|
| | | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS |
| | | | | | | | | | | | |

Toll Plaza Input Data

| Segment | Configuration | Number of Manual Lanes | Number of Coin Machine Lanes | Number of ETC-Only Lanes | | |
|----------------------------|----------------------------------|------------------------------|---------------------------------|-------------------------------|----------------------------|---------------------------|
| Pct. Manual Payment | Pct. Coin Machine Payment | Pct. ETC-Only Payment | Manual Avg. Service Time | Coin Avg. Service Time | ETC Free-Flow Speed | Prop. Trad. Demand |

Segment Results and LOS

| Seg # | From | To | Analysis Type | Analysis Volume (pc/h) | Capacity (pc/h) | v/c Ratio | Avg. Speed (mi/h) | Density (pc/h/ln) | LOS | Sig Impact | |
|-----------------------|---------------|------------------|---------------|------------------------|-----------------|-------------------|-------------------|-------------------|-------------|------------|----------|
| 1 | | | Basic Segment | 7006 | 9600 | 0,73 | 68,7 | 25,5 | C | N/A | |
| Freeway Length | 1,0000 | FFS Delay | 4,4 | Threshold Delay | 0,0 | Avg. Speed | 68,7 | Density | 25,5 | LOS | D |

Service Volumes

Note: The maximum normally acceptable directional service volume for LOS E in Florida for this facility type and area type is 2100 veh/h/ln.

| | A | B | C | D | E |
|--------------|---|--------|--------|--------|--------|
| Lanes | Hourly Volume In Peak Direction | | | | |
| 4 | 1220 | 2060 | 2720 | 3240 | 3660 |
| 6 | 1820 | 3100 | 4120 | 4860 | 5500 |
| 8 | 2420 | 4100 | 5480 | 6480 | 7340 |
| 10 | 3080 | 5160 | 6820 | 8100 | 9160 |
| 12 | 3680 | 6160 | 8220 | 9720 | 11000 |
| Lanes | Peak Hour Volume Both Directions | | | | |
| 4 | 2230 | 3730 | 4960 | 5900 | 6670 |
| 6 | 3320 | 5640 | 7500 | 8840 | 10000 |
| 8 | 4410 | 7460 | 9960 | 11790 | 13340 |
| 10 | 5600 | 9370 | 12410 | 14730 | 16670 |
| 12 | 6690 | 11190 | 14960 | 17680 | 20000 |
| Lanes | Annual Average Daily Traffic | | | | |
| 4 | 24800 | 41500 | 55100 | 65500 | 74100 |
| 6 | 36900 | 62700 | 83400 | 98200 | 111100 |
| 8 | 49000 | 82900 | 110700 | 131000 | 148200 |
| 10 | 62200 | 104100 | 137900 | 163700 | 185200 |
| 12 | 74300 | 124300 | 166200 | 196400 | 222200 |



Tramo 5

Hipótesis 3

FREEPLAN 2012 Conceptual Planning Analysis

Project Information

| | | | | | |
|----------------------|-------------------|-----------------------|------------|---------------------|-------------------|
| Analyst | | Freeway Name | V-30 | Study Period | Standard K |
| Date Prepared | 2/5/2020 17:09:33 | From | A | Program | FREEPLAN 2012 |
| Agency | | To | B | Version Date | 12/12/2012 |
| Area Type | Large Urbanized | Peak Direction | Southbound | | |
| File Name | | | | | |
| User Notes | Año 2025 | | | | |

Freeway Data

| | | | | | |
|-------------|-------|--|-------|--------------------------------|------|
| AADT | 58568 | Freeway Input Volume | 2899 | Local Adjustment Factor | 1,00 |
| K | 0,09 | PHF | 0,9 | Ramp Metering Exists | No |
| D | 0,55 | Percent Trucks Entering First Segment | 16,03 | | |

Segment Data

| Seg # | From | To | Input Type | Length (ft) | Hourly Volume (veh/h) | # Lanes | Posted Speed (mi/h) | Free-Flow Speed (mi/h) | Terrain |
|-------|------|----|---------------|-------------|-----------------------|---------|---------------------|------------------------|---------|
| 1 | | | Basic Segment | 5280 | 2899 | 4 | 70 | 75 | Level |

Time Period Independent Weaving Segment Data

| Seg # | Configuration | Short Length (ft) | # Weaving Lanes | Min. Lane Changes Freeway-Ramp | Min. Lane Changes Ramp-Freeway | Min. Lane Changes Ramp-Ramp |
|-------|---------------|-------------------|-----------------|--------------------------------|--------------------------------|-----------------------------|
| | | | | | | |

Ramp Descriptions

| Segment | Type | On-Ramp | | | | | Off-Ramp | | | | |
|---------|------|-----------------------|-----|-------|----------------------|-----|-----------------------|-----|-------|----------------------|-----|
| | | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS |
| | | | | | | | | | | | |

Toll Plaza Input Data

| Segment | Configuration | Number of Manual Lanes | Number of Coin Machine Lanes | Number of ETC-Only Lanes |
|---------|---------------|------------------------|------------------------------|--------------------------|
| | | | | |

| Pct. Manual Payment | Pct. Coin Machine Payment | Pct. ETC-Only Payment | Manual Avg. Service Time | Coin Avg. Service Time | ETC Free-Flow Speed | Prop. Trad. Demand |
|---------------------|---------------------------|-----------------------|--------------------------|------------------------|---------------------|--------------------|
|---------------------|---------------------------|-----------------------|--------------------------|------------------------|---------------------|--------------------|

Segment Results and LOS

| Seg # | From | To | Analysis Type | Analysis Volume (pc/h) | Capacity (pc/h) | v/c Ratio | Avg. Speed (mi/h) | Density (pc/h/ln) | LOS | Sig Impact | |
|-----------------------|---------------|------------------|---------------|------------------------|-----------------|-------------------|-------------------|-------------------|-------------|------------|----------|
| 1 | | | Basic Segment | 3479 | 9600 | 0,36 | 75,0 | 11,6 | B | N/A | |
| Freeway Length | 1,0000 | FFS Delay | 0,0 | Threshold Delay | 0,0 | Avg. Speed | 75,0 | Density | 11,6 | LOS | B |

Service Volumes

Note: The maximum normally acceptable directional service volume for LOS E in Florida for this facility type and area type is 2100 veh/h/ln.

| | A | B | C | D | E |
|--------------|---|--------|--------|--------|--------|
| Lanes | Hourly Volume In Peak Direction | | | | |
| 4 | 1220 | 2100 | 2780 | 3320 | 3740 |
| 6 | 1880 | 3160 | 4180 | 4980 | 5620 |
| 8 | 2480 | 4200 | 5580 | 6640 | 7500 |
| 10 | 3120 | 5260 | 6980 | 8300 | 9380 |
| 12 | 3720 | 6300 | 8380 | 9940 | 11240 |
| Lanes | Peak Hour Volume Both Directions | | | | |
| 4 | 2230 | 3820 | 5050 | 6040 | 6810 |
| 6 | 3410 | 5730 | 7600 | 9040 | 10230 |
| 8 | 4500 | 7640 | 10140 | 12060 | 13630 |
| 10 | 5690 | 9550 | 12690 | 15080 | 17050 |
| 12 | 6780 | 11460 | 15230 | 18080 | 20450 |
| Lanes | Annual Average Daily Traffic | | | | |
| 4 | 24800 | 42500 | 56100 | 67100 | 75700 |
| 6 | 37900 | 63700 | 84400 | 100500 | 113700 |
| 8 | 50000 | 84900 | 112700 | 134000 | 151500 |
| 10 | 63200 | 106100 | 141000 | 167500 | 189400 |
| 12 | 75300 | 127300 | 169200 | 200900 | 227200 |

FREEPLAN 2012 Conceptual Planning Analysis

Project Information

| | | | | | |
|----------------------|-------------------|-----------------------|------------|---------------------|-------------------|
| Analyst | | Freeway Name | V-30 | Study Period | Standard K |
| Date Prepared | 2/5/2020 17:09:33 | From | A | Program | FREEPLAN 2012 |
| Agency | | To | B | Version Date | 12/12/2012 |
| Area Type | Large Urbanized | Peak Direction | Southbound | | |
| File Name | | | | | |
| User Notes | Año 2040 | | | | |

Freeway Data

| | | | | | |
|-------------|-------|--|------|--------------------------------|------|
| AADT | 87504 | Freeway Input Volume | 4331 | Local Adjustment Factor | 1,00 |
| K | 0,09 | PHF | 0,9 | Ramp Metering Exists | No |
| D | 0,55 | Percent Trucks Entering First Segment | 18,6 | | |

Segment Data

| Seg # | From | To | Input Type | Length (ft) | Hourly Volume (veh/h) | # Lanes | Posted Speed (mi/h) | Free-Flow Speed (mi/h) | Terrain |
|-------|------|----|---------------|-------------|-----------------------|---------|---------------------|------------------------|---------|
| 1 | | | Basic Segment | 5280 | 4331 | 4 | 70 | 75 | Level |

Time Period Independent Weaving Segment Data

| Seg # | Configuration | Short Length (ft) | # Weaving Lanes | Min. Lane Changes Freeway-Ramp | Min. Lane Changes Ramp-Freeway | Min. Lane Changes Ramp-Ramp |
|-------|---------------|-------------------|-----------------|--------------------------------|--------------------------------|-----------------------------|
| | | | | | | |

Ramp Descriptions

| Segment | Type | On-Ramp | | | | | Off-Ramp | | | | |
|---------|------|-----------------------|-----|-------|----------------------|-----|-----------------------|-----|-------|----------------------|-----|
| | | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS |
| | | | | | | | | | | | |

Toll Plaza Input Data

| Segment | Configuration | Number of Manual Lanes | Number of Coin Machine Lanes | Number of ETC-Only Lanes |
|---------|---------------|------------------------|------------------------------|--------------------------|
| | | | | |

| Pct. Manual Payment | Pct. Coin Machine Payment | Pct. ETC-Only Payment | Manual Avg. Service Time | Coin Avg. Service Time | ETC Free-Flow Speed | Prop. Trad. Demand |
|---------------------|---------------------------|-----------------------|--------------------------|------------------------|---------------------|--------------------|
|---------------------|---------------------------|-----------------------|--------------------------|------------------------|---------------------|--------------------|

Segment Results and LOS

| Seg # | From | To | Analysis Type | Analysis Volume (pc/h) | Capacity (pc/h) | v/c Ratio | Avg. Speed (mi/h) | Density (pc/h/ln) | LOS | Sig Impact | |
|-----------------------|---------------|------------------|---------------|------------------------|-----------------|-------------------|-------------------|-------------------|-------------|------------|----------|
| 1 | | | Basic Segment | 5260 | 9600 | 0,55 | 73,9 | 17,8 | B | N/A | |
| Freeway Length | 1,0000 | FFS Delay | 0,7 | Threshold Delay | 0,0 | Avg. Speed | 73,9 | Density | 17,8 | LOS | C |

Service Volumes

Note: The maximum normally acceptable directional service volume for LOS E in Florida for this facility type and area type is 2100 veh/h/ln.

| | A | B | C | D | E |
|--------------|---|--------|--------|--------|--------|
| Lanes | Hourly Volume In Peak Direction | | | | |
| 4 | 1220 | 2100 | 2780 | 3280 | 3700 |
| 6 | 1880 | 3100 | 4120 | 4920 | 5560 |
| 8 | 2480 | 4160 | 5520 | 6560 | 7420 |
| 10 | 3080 | 5200 | 6920 | 8200 | 9260 |
| 12 | 3720 | 6260 | 8280 | 9840 | 11120 |
| Lanes | Peak Hour Volume Both Directions | | | | |
| 4 | 2230 | 3820 | 5050 | 5970 | 6740 |
| 6 | 3410 | 5640 | 7500 | 8930 | 10100 |
| 8 | 4500 | 7550 | 10050 | 11910 | 13490 |
| 10 | 5600 | 9460 | 12600 | 14900 | 16850 |
| 12 | 6780 | 11370 | 15050 | 17880 | 20210 |
| Lanes | Annual Average Daily Traffic | | | | |
| 4 | 24800 | 42500 | 56100 | 66300 | 74900 |
| 6 | 37900 | 62700 | 83400 | 99200 | 112300 |
| 8 | 50000 | 83900 | 111700 | 132400 | 149800 |
| 10 | 62200 | 105100 | 139900 | 165500 | 187200 |
| 12 | 75300 | 126300 | 167200 | 198600 | 224600 |

FREEPLAN 2012 Conceptual Planning Analysis

Project Information

| | | | | | |
|----------------------|-------------------|-----------------------|------------|---------------------|-------------------|
| Analyst | | Freeway Name | V-30 | Study Period | Standard K |
| Date Prepared | 2/5/2020 17:09:33 | From | A | Program | FREEPLAN 2012 |
| Agency | | To | B | Version Date | 12/12/2012 |
| Area Type | Large Urbanized | Peak Direction | Southbound | | |
| File Name | | | | | |
| User Notes | Año 2050 | | | | |

Freeway Data

| | | | | | |
|-------------|--------|--|-------|--------------------------------|------|
| AADT | 112295 | Freeway Input Volume | 5559 | Local Adjustment Factor | 1,00 |
| K | 0,09 | PHF | 0,9 | Ramp Metering Exists | No |
| D | 0,55 | Percent Trucks Entering First Segment | 18,81 | | |

Segment Data

| Seg # | From | To | Input Type | Length (ft) | Hourly Volume (veh/h) | # Lanes | Posted Speed (mi/h) | Free-Flow Speed (mi/h) | Terrain |
|-------|------|----|---------------|-------------|-----------------------|---------|---------------------|------------------------|---------|
| 1 | | | Basic Segment | 5280 | 5559 | 4 | 70 | 75 | Level |

Time Period Independent Weaving Segment Data

| Seg # | Configuration | Short Length (ft) | # Weaving Lanes | Min. Lane Changes Freeway-Ramp | Min. Lane Changes Ramp-Freeway | Min. Lane Changes Ramp-Ramp |
|-------|---------------|-------------------|-----------------|--------------------------------|--------------------------------|-----------------------------|
| | | | | | | |

Ramp Descriptions

| Segment | Type | On-Ramp | | | | | Off-Ramp | | | | |
|---------|------|-----------------------|-----|-------|----------------------|-----|-----------------------|-----|-------|----------------------|-----|
| | | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS | Hourly Volume (veh/h) | %HV | Lanes | Accel / Decel Length | FFS |
| | | | | | | | | | | | |

Toll Plaza Input Data

| Segment | Configuration | Number of Manual Lanes | Number of Coin Machine Lanes | Number of ETC-Only Lanes | | |
|---------------------|---------------------------|------------------------|------------------------------|--------------------------|---------------------|--------------------|
| Pct. Manual Payment | Pct. Coin Machine Payment | Pct. ETC-Only Payment | Manual Avg. Service Time | Coin Avg. Service Time | ETC Free-Flow Speed | Prop. Trad. Demand |
| | | | | | | |

Segment Results and LOS

| Seg # | From | To | Analysis Type | Analysis Volume (pc/h) | Capacity (pc/h) | v/c Ratio | Avg. Speed (mi/h) | Density (pc/h/ln) | LOS | Sig Impact | |
|-----------------------|---------------|------------------|---------------|------------------------|-----------------|-------------------|-------------------|-------------------|-------------|------------|----------|
| 1 | | | Basic Segment | 6758 | 9600 | 0,70 | 69,7 | 24,2 | C | N/A | |
| Freeway Length | 1,0000 | FFS Delay | 3,6 | Threshold Delay | 0,0 | Avg. Speed | 69,7 | Density | 24,2 | LOS | D |

Service Volumes

Note: The maximum normally acceptable directional service volume for LOS E in Florida for this facility type and area type is 2100 veh/h/ln.

| Lanes | A | B | C | D | E |
|---|-------|--------|--------|--------|--------|
| Hourly Volume In Peak Direction | | | | | |
| 4 | 1220 | 2100 | 2780 | 3280 | 3700 |
| 6 | 1880 | 3100 | 4120 | 4920 | 5560 |
| 8 | 2480 | 4160 | 5520 | 6560 | 7400 |
| 10 | 3080 | 5200 | 6920 | 8180 | 9260 |
| 12 | 3720 | 6260 | 8280 | 9820 | 11100 |
| Peak Hour Volume Both Directions | | | | | |
| 4 | 2230 | 3820 | 5050 | 5950 | 6740 |
| 6 | 3410 | 5640 | 7500 | 8930 | 10100 |
| 8 | 4500 | 7550 | 10050 | 11910 | 13470 |
| 10 | 5600 | 9460 | 12600 | 14880 | 16830 |
| 12 | 6780 | 11370 | 15050 | 17860 | 20200 |
| Annual Average Daily Traffic | | | | | |
| 4 | 24800 | 42500 | 56100 | 66100 | 74900 |
| 6 | 37900 | 62700 | 83400 | 99200 | 112300 |
| 8 | 50000 | 83900 | 111700 | 132400 | 149600 |
| 10 | 62200 | 105100 | 139900 | 165300 | 187000 |
| 12 | 75300 | 126300 | 167200 | 198400 | 224400 |



Documento nº2: Anejos

Anejo II: Documentación gráfica

Estudio de alternativas de conexión viaria y ferroviaria entre los puertos de Sagunto y València



Índice

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| Área de máximo valor paisajístico y protección especial grado 1 | 4 |
| Área de medio valor paisajístico y protección especial grado 3 | 12 |



Objetivo

El presente anejo tiene por objetivo mostrar la calidad paisajística de dos zonas diferentes de la comarca de “L’Horta Nord” para así contextualizar y restar subjetividad a las apreciaciones contenidas en la memoria de este Trabajo de Fin de Grado referentes a la necesidad de preservar este entorno.

Las fotografías se han tomado en áreas de nivel de protección y calidad paisajística diferentes, tal y como establece el “PAT de l’horta”, siendo la que se encuentra en el término municipal de Alboraiá del máximo de estos niveles y la que se encuentra en el término municipal de Museros de los niveles más bajos, por lo que es posible comprobar las diferencias existentes entre estas dos zonas.



Localización de las áreas fotografiadas



Localización de las áreas fotografiadas (Fuente: elaboración propia mediante Google Earth)



Área de máximo valor paisajístico y protección especial grado 1

Término municipal de Alboraiá



Planta del área fotografiada 1 (Fuente: elaboración propia mediante Google Earth)



Fotografía 1



Fotografía 2



Fotografía 3



Fotografía 4



Fotografía 5



Fotografía 6



Fotografía 7



Fotografía 8



Fotografía 9



Fotografía 10



Fotografía 11



Fotografía 12



Área de medio valor paisajístico y protección especial grado 3

Término municipal de Museros



Planta del área fotografiada 2 (Fuente: elaboración propia mediante Google Earth)



Fotografía 1



Fotografía 2



Fotografía 3



Fotografía 4



Fotografía 5



Fotografía 6



Fotografía 7



Fotografía 8



Fotografía 9

NOTA: todas las fotografías son de elaboración propia