# Traffic Impact Statement 

## FARRELL WELLINGTON - ESTATES WEST VILLAGE OF WELLINGTON, FLORIDA

## Prepared for:

Farrell Building Company
2317 Montauk Highway
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Job No. 21-196
Date: June 20, 2022
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### 1.0 SITE DATA

The subject parcel is located on the southwest corner of Forest Hill Boulevard and Polo Club Drive in the Village of Wellington and contains approximately 22.98 acres. The Property Control Numbers (PCNs) for the subject parcel are the following:

73-41-44-14-00-000-1020
73-41-44-14-00-000-1060
73-41-44-14-00-000-3070
The property is currently designated as Open Space Recreation in the Village of Wellington Comprehensive Plan. The property owner is requesting a change in the 22.98 acre parcel's designation to Residential " $C$ " which allows 3 units per acre on the Village of Wellington's Comprehensive Plan.

The proposed plan of development is to consist of 27 single family dwelling units with a project build-out of 2026. Site access is proposed via two full access driveway connections to Sunnydale Drive. For additional information on site layout, please refer to the Site Plan prepared by Litterick Landscape Architecture.

### 2.0 PURPOSE OF STUDY

This study will analyze the proposed development's impact on the surrounding major thoroughfares within the project's radius of development influence in accordance with the Village of Wellington Traffic Performance Standards. Additionally, the study will include the analysis for the Land Use Plan Amendment (LUPA) change to Residential " $C$ " -3 dwelling units per acre.

### 3.0 TRAFFIC GENERATION

## LUPA ANALYSIS

The increase in daily traffic generation due to the requested change in the 22.98 acre parcel's land use designation may be determined by taking the difference between the total traffic generated for the most intensive land use under the existing Open Space Recreation future land use designation and the proposed Residential "C" (3 dwelling units per acre) future land use designation:

## Open Space Recreation

The most intensive land use for the existing Open Space Recreation land use designation is "Public Park". The maximum allowable intensity for the designated acreage under the existing Open Space Recreation land use designation is 22.98 acres.

## Public Park (22.98 acres)

Table 1 shows the daily traffic generation, and Tables 2 and 3 show the AM and PM peak hour traffic generation, respectively, in peak hour trips (pht) for the property under the existing Open Space Recreation land use designation. The traffic generation has been calculated in accordance

### 3.0 TRAFFIC GENERATION (CONTINUED)

with the traffic generation rates listed in the ITE Trip Generation Manual, 11th Edition and may be summarized as follows:

## Existing Future Land Use

Daily Traffic Generation $=18$ tpd
AM Peak Hour Traffic Generation (In/Out) = 0 pht ( $0 \mathrm{In} / 0$ Out)
PM Peak Hour Traffic Generation (In/Out) = 3 pht ( $2 \mathrm{In} / 1$ Out )

## Residential "C" - 3 Dwelling Units per Acre

The most intensive land use for the proposed Residential "C" (3 DU/acre) land use designation is "Single Family Detached". Based on a maximum density of 3 dwelling units per acre and the site area consisting of 22.98 acres, the maximum allowable number of dwelling units for the designated acreage under the proposed Residential "C" (3 DU/acre) land use designation is 69 dwelling units calculated as follows:

$$
\text { 22.98 Acre } \times \frac{3 \text { Dwelling Units }}{\text { Acre }}=68 \text { Dwelling Units }
$$

The trip generation for the maximum potential of 68 single family dwelling units is shown in Tables 4-6 and may be summarized as follows:

## Proposed Future Land Use

Daily Traffic Generation $=680 \mathrm{tpd}$

AM Peak Hour Traffic Generation (In/Out) = 48 pht (12 In/36 Out)
PM Peak Hour Traffic Generation (In/Out) $=64$ pht (40 In/24 Out)
The change in traffic generation due to the requested change in the parcels' land use designations is shown in Table 7 and is summarized as follows:

| LUPA Trip Difference |  |  |
| :--- | :--- | :--- |
| DUaily Traffic Generation 62 tpd INCREASE <br> AM Peak Hour Traffic Generation $=$ <br> PM Peak Hour Traffic Generation $=$ <br> pht INCREASE  |  |  |

Table 8 represents the Year 2045 Analysis. The total anticipated Year 2045 traffic meets the adopted Level of Service requirements within the project's radius of influence, per the Palm Beach County 1989 Comprehensive Plan Policy 3.5-d.

## ZONING TRAFFIC ANALYSIS

In addition to the LUPA traffic analysis, a trip generation analysis has also been performed for the proposed use. The trip generation for the proposed 27 single family dwelling units is shown in Tables 9-11 and may be summarized as follows:

## Proposed Use

Daily Traffic Generation $=270$ tpd
AM Peak Hour Traffic Generation (In/Out) = 19 pht ( $5 \mathrm{In} / 14$ Out)
PM Peak Hour Traffic Generation (In/Out) = 25 pht (16 In/9 Out)

### 4.0 PART TWO LINK ANALYSIS

Based on the Village of Wellington Unified Land Development Code Article 9, a project must address all Wellington roadway links on which the net directional trips are greater than $1 \%$ of the LOS D of the link affected on a peak hour directional basis. If no links are significantly impacted, an analysis shall be completed.

Figure 1 shows the trip distribution, which is based on the current and projected roadway geometry, a review of historical travel patterns for the area, and on the existing and anticipated traffic patterns.

Tables 12 and 13 show the project assignment as well as the applicable Level of Service Standard for each of the links within the project's radius of development influence. As shown in Tables 14 and 15, all impacted links meet the applicable Level of Service standard.

### 5.0 SITE RELATED IMPROVEMENTS

The AM and PM peak hour turning movement volumes and directional distributions at the project entrance(s) for the overall development are shown in Tables 10 and 11 and may be summarized as follows:

## DIRECTIONAL

DISTRIBUTION (TRIPS IN/OUT)

$$
\begin{array}{ll}
\mathrm{AM}= & 5 / 14 \\
\mathrm{PM}= & 16 / 9
\end{array}
$$

Figure 2 presents the AM and PM peak turning movement volume assignments at the project driveway based on the directional distributions. As previously stated, site access is proposed via two full access driveway connections to Sunnydale Drive. Based on the proposed trip generation and turning movement volumes and Palm Beach County turn lane requirements, no additional turn lanes appear warranted.

### 6.0 INTERSECTION ANALYSIS

As requested by the Village of Wellington, capacity analysis of the Forest Hill Boulevard at Royal Fern Drive/Polo Club Road intersection was performed and is included in Appendix D.

### 7.0 CONCLUSION

The proposed development of 27 single family dwelling units has been estimated to generate 270 trips per day, 19 AM peak hour trips, and 25 PM peak hour trips at project build-out in 2026. A brief review of the links within the project's radius of development influence reveals that the proposed development meets the requirements of the Village of Wellington Traffic Performance Standards.

## APPENDIX A

## LAND USE CHANGE TRAFFIC ANALYSIS

## TABLE 1 - Daily Traffic Generation

| Landuse | ITE | Intensity |  |  | Dir Split <br> In \|Out |  | Gross Trips | Internalization |  | External Trips | Pass-by |  | Net Trips |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Code |  |  | Rate/Equation |  |  | \% | Total | \% |  | Trips |  |
| Public Park | 411 | 22.98 | Dwelling Units | 0.78 |  |  |  | 18 |  | 0 | 18 | 0\% | 0 | 18 |
|  |  |  | Grand Totals: |  |  |  | 18 | 0.0\% | 0 | 18 | 0\% | 0 | 18 |

TABLE 2 - AM Peak Hour Traffic Generation

| Landuse | ITE Code | Intensity |  | Rate/Equation | Dir Split |  | Gross Trips |  |  | Internalization |  |  |  | External Trips |  |  | Pass-by |  | Net Trips |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  | In | Out | Total | \% | In | Out | Total | In | Out | Total | \% | Trips | In | Out | Total |
| Public Park | 411 | 22.98 | Dwelling Units |  | 0.02 | 0.59 | 0.41 | 0 | 0 | 0 | 0.0\% | 0 | 0 | 0 | 0 | 0 | 0 | 0\% | 0 | 0 | 0 | 0 |
|  |  |  | Grand Totals: |  |  |  | 0 | 0 | 0 | \#DIV/0! | 0 | 0 | 0 | 0 | 0 | 0 | \#DIV/01 | 0 | 0 | 0 | 0 |

TABLE 3 - PM Peak Hour Traffic Generation

| Landuse | ITE | Intensity |  | Rate/Equation | Dir Split |  | Gross Trips |  |  | Internalization |  |  |  | External Trips |  |  | Pass-by |  | Net Trips |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Code |  |  | In | Out | In | Out | Total | \% | In | Out | Total | In | Out | Total | \% | Trips | In | Out | Total |
| Public Park | 411 | 22.98 | Dwelling Units |  | 0.11 | 0.55 | 0.45 | 2 | 1 | 3 | 0.0\% | 0 | 0 | 0 | 2 | 1 | 3 | 0\% | 0 | 2 | 1 | 3 |
|  |  |  | Grand Totals: |  |  |  | 2 | 1 | 3 | 0.0\% | 0 | 0 | 0 | 2 | 1 | 3 | 0\% | 0 | 2 | 1 | 3 |

[^0]
## EXISTING RESIDENTIAL "C" FUTURE LAND USE DESIGNATION - 68 DWELLING UNITS

TABLE 4 - Daily Traffic Generation

| Landuse | $\begin{array}{\|c\|} \hline \hline \text { ITE } \\ \text { Code } \\ \hline \end{array}$ | Intensity |  | Rate/Equation | Dir Split In Out |  | Gross Trips | Internalization |  | External Trips | Pass-by |  | Net Trips |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | \% |  |  | Total | \% | \| Trips |  |  |
| Single Family Detached | 210 | 68 | Dwelling Units |  | 10 |  |  |  | 680 |  | 0 | 680 | 0\% | 0 | 680 |
|  |  |  | Grand Totals: |  |  |  | 680 | 0.0\% | 0 | 680 | 0\% | 0 | 680 |

TABLE 5-AM Peak Hour Traffic Generation

| Landuse | $\begin{gathered} \text { ITE } \\ \text { Code } \end{gathered}$ | Intensity |  | Rate/Equation | Dir Split |  | Gross Trips |  |  | Internalization |  |  |  | External Trips |  |  | Pass-by |  | Net Trips |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | In | Out | In | Out | Total | \% | In | Out | Total | In | Out | Total | \% | Trips | In | Out | Total |
| Single Family Detached | 210 | 68 | Dwelling Units |  | 0.7 | 0.26 | 0.74 | 12 | 36 | 48 | 0.0\% | 0 | 0 | 0 | 12 | 36 | 48 | 0\% | 0 | 12 | 36 | 48 |
|  |  |  | Grand Totals: |  |  |  | 12 | 36 | 48 | 0.0\% | 0 | 0 | 0 | 12 | 36 | 48 | 0\% | 0 | 12 | 36 | 48 |

TABLE 6 - PM Peak Hour Traffic Generation

| Landuse | ITECode | Intensity |  | Rate/Equation | Dir Split |  | Gross Trips |  |  | Internalization |  |  |  | External Trips |  |  | Pass-by |  | Net Trips |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | In | Out | In | Out | Total | \% | In | Out | Total | In | Out | Total | \% | Trips | In | Out | Total |
| Single Family Detached | 210 | 68 | Dwelling Units |  | 0.94 | 0.63 | 0.37 | 40 | 24 | 64 | 0.0\% | 0 | 0 | 0 | 40 | 24 | 64 | 0\% | 0 | 40 | 24 | 64 |
|  |  |  | Grand Totals: |  |  |  | 40 | 24 | 64 | 0.0\% | 0 | 0 | 0 | 40 | 24 | 64 | 0\% | 0 | 40 | 24 | 64 |

[^1]
## TABLE 7

LAND USE PLAN AMENDMENT FROM OPEN SPACE RECREATION TO RESIDENTIAL "C" TRAFFIC GENERATION INCREASE

|  | DAILY | AM PEAK HOUR |  |  | PM PEAK HOUR |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | TOTAL | IN | OUT | TOTAL | IN | OUT |
| EXISTING FUTURE LAND USE DESIGNATION = | 18 | 0 | 0 | 0 | 3 | 2 | 1 |
| PROPOSED FUTURE LAND USE DESIGNATION = | 680 | 48 | 12 | 36 | 64 | 40 | 24 |
| INCREASE = | 662 | 48 | 12 | 36 | 61 | 38 | 23 |

## LAND USE PLAN AMENDMENT FROM OPEN SPACE RECREATION TO RESIDENTIAL "C" <br> OPEN SPACE (YEAR 2045) MAXIMUM DEVELOPMENT INTENSITY - NET INCREASE

PROJECT: FARRELL WELLINGTON - ESTATES WEST
EXISTING FUTURE LAND USE DESIGNATION: OPEN SPACE RECREATION EXISTING UNDERLYING FUTURE LAND USE DESIGNATION: NON

TRIPS PER DAY = 18
PROPOSED FUTURE LAND USE DESIGNATION: RESIDENTLAL *
ROPOSED UNDERLYING FUTURE LAND USE DESIGNATION: NONE
TRIPS PER DAY $=680$
TRIP INCREASE $=662$

| ROADWAY | FROM | то | distribution | PROJECT TRAFFIC | LANES | LOS D CAPACITY | TRIP INCREASE | $\begin{gathered} 2045 \\ \hline \text { PBC MPO } \\ \text { TRAFFIC } \\ \text { VOLUME } \\ \hline \end{gathered}$ | $\begin{gathered} \text { TOTAL } \\ 2045 \\ \text { TRAFFIC } \end{gathered}$ | $\begin{gathered} \text { V/C } \\ \text { RATIO } \end{gathered}$ | PROJECT SIGNIFICANCE* |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| FOREST HILL BOULEVARD | SOUTH SHORE BOULEVARD | SITE | 30\% | 199 | 6 | 59,900 | 0.33\% | 52,800 | 52,999 | 0.88 | NO |
| FOREST HILL BOULEVARD | SITE | SR 7 | 70\% | 463 | 6 | 59,900 | 0.77\% | 52,800 | 53,263 | 0.89 | NO |

- Project is signilicant when net trip increase is greater than $1 \%$ for wic of 1.4 or more, $2 \%$ for whe of 1.2 or more and $3 \%$ for wic less than 1.2

SERPM 82045 Cost Feasible Adjusted Two-Way Traffic Volumes - Palm Beach County

| PBC Station | FDOT station | Roadway | From | To | Existing Lanes |  | 2005 <br> Counts | $2010$ Count | $2015$ <br> Count | 2018 <br> Count | $2015$ <br> Model | $2045$ <br> Model | $2045$ <br> Adjusted |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1801 | 937363 | DONALD ROSS RD | Prosperity Farms Rd | Ellison-Wilson Rd | 4 | 6 | 27,337 | 26,081 | 27,134 | 30,207 | 9,981 | 14,807 | 32,000 |
| 1801 | 937363 | DONALD ROSS RD | Ellison-Wilson Rd | US 1 | 4 | 6 | 27,337 | 26,081 | 27,134 | 30,207 | 9,981 | 14,807 | 32,000 |
|  | 930701 | DONALD ROSS RD | US 1 | A1A | 3 | 3 | 27,337 |  | - | - | 2,543 | 2,654 | 2,700 |
| 3638 | 937332 | DREXEL RD | Okeechobee Bl | Belvedere Rd | 2 | 2 | 10,638 | 10,286 | 9,989 | 10,698 | 14,509 | 12,234 | 7,700 |
|  | 937619 | DUDA RD | G2 Canal Rd | Cr-880 | 2 | 2 |  |  | - | . | 322 | 328 | 300 |
|  | 937703 | DYER BLVD | Haverhill Blvd | Military Tr | 2 | 2 |  |  | - | - | 3,507 | 5,390 | 5,400 |
|  | 937494 | E CANAL ST | SR-717 | SR-80 | 2 | 2 |  |  | - | - | 1,275 | 1,562 | 1,600 |
|  | 937569 | E OCEAN AVE | Seacrest Blvd | Federal Hwy | 2 | 2 |  |  | - | - | 5,890 | 8,860 | 8,900 |
| 5634 | 937297 | EL CLAIR RANCH RD | Lake Ida Rd | W Atlantic Ave | 2 | 2 | 6,566 | 5,120 | 5,585 | 6,141 | 2,951 | 3,306 | 5,900 |
| 5636 | 937298 | EL CLAIR RANCH RD | Woolbright Rd | Piper's Glen Blvd | 2 | 2 | 8,001 | 7,414 | 7,080 | 7,093 | 4,941 | 4,853 | 7,000 |
| 5632 | 937296 | EL CLAIR RANCH RD | Boynton Beach Blyd | Woolbright Rd | 2 | 2 | 5,562 | 5,359 | 4,998 | 5,563 | 6,121 | 8,272 | 7,100 |
| 2844 | 937058 | ELLISON-WILSON RD | PGA Blvd | Universe Blvd | 2 | 2 | 11,653 | 13,804 | 10,237 | 10,985 | 8,630 | 10,355 | 12,300 |
| 2304 | 938519 | ELLISON-WILSON RD | Universe Blvd | Donald Ross Rd | 2 | 2 | 6,147 | 5,669 | 6,291 | 6,845 | 4,413 | 6,809 | 8,700 |
| 3661 | 937333 | ELMHURST RD | Haverhill Rd | Military Tr | 2 | 2 | 10,363 | 7,776 | 8,269 | 8,716 | 7,100 | 8,535 | 9,900 |
| 6850 | 937499 | FAU BLVD | Glades Rd | 20th St NW | 4 | 4 | 9,953 | - | 10,400 | 6,900 | 7,521 | 17,482 | 20,400 |
| 6876 | 937499 | FAU BLVD | 20th St NW | Spanish River Blvd | 2 | 2 | 11,757 | 13,691 | 10,400 | 17,771 | 7,521 | 17,482 | 20,400 |
| 4824 | 930221 | FEDERAL HWY | 6th Ave S | Lake Ave (LW) | 2 | 2 | 13,121 | 9,333 | 9,428 | 9,200 | 4,932 | 6,289 | 10,800 |
| 4802 | 935056 | FEDERAL HWY | Lucerne Ave | 6th Ave N | 2 | 2 | 14,217 | 9,925 | 10,693 | 9,300 | 7,398 | 8,538 | 11,800 |
| 3912 | 935081 | FLAGLER DR | Forest Hill Blvd | Plymouth Rd | 2 | 2 | 2,609 | - | 6,400 | . | 942 | 1,925 | 7,400 |
| 3894 | 935081 | FLAGLER DR | Plymouth Rd | Southern Blyd | 2 | 2 | 3,162 | - | 6,400 | - | 942 | 1,925 | 7,400 |
| 3870 | 938517 | FLAGLER DR | Southern Blvd | Barcelona Rd | 2 | 2 | 7,006 | - | 6,500 | 5,500 | 506 | 1,959 | 8,000 |
| 3854 | 938517 | FLAGLER DR | Barcelona Rd | Okeechobee BI | 4 | 4 | 13,375 | - | 6,500 | 5,500 | 506 | 1,959 | 8,000 |
| 3852 | 938516 | FLAGLER DR | Okeechobee BI | Banyan Blvd | 4 | 4 | 17,558 | - | 9,700 | 9,600 | 7,949 | 10,560 | 12,900 |
| 3838 | 938516 | FLAGLER DR | Banyan Blvd | Loftin St | 4 | 4 | 15,587 | - | 9,700 | 9,600 | 7,949 | 10,560 | 12,900 |
| 3832 | 938516 | FLAGLER DR | Loftin St | Palm Beach Lakes Blvd | 4 | 4 | 17,980 | - | 9,700 | 9,600 | 7,949 | 10,560 | 12,900 |
| 3824 | 938516 | FLAGLER DR | Palm Beach Lakes Blvd | 26th St | 4 | 4 | 17,973 | - | 9,700 | 9,600 | 7,949 | 10,560 | 12,900 |
| 3808 | 938516 | FLAGLER DR | 26th St | 36th St | 2 | 2 | 11,294 | - | 9,700 | 9,600 | 7,949 | 10,560 | 12,900 |
| PBC036 | PBC036 | FLAVOR PICT RD | SR-7 | Lyons Rd | 2 | 4 |  |  | . | . | 1,098 | 12,146 | 12,100 |
| PBC035 | PBC035 | FLAVOR PICT RD | Lyons Rd | Hagen Ranch Rd | 0 | 4 |  |  | - | - | - | 19,834 | 19,800 |
| 5663 | 937151 | FLAVOR PICT RD | Hagen Ranch Rd | Jog Rd | 2 | 2 |  | 5,343 | 6,827 | 7,559 | 6,670 | 9,901 | 10,100 |
| 5654 | 937151 | FLAVOR PICT RD | Jog Rd | Military Tr | 2 | 2 | 5,725 | 6,947 | 6,768 | 8,472 | 6,670 | 9,901 | 10,000 |
| 3840 | 938530 | FLORIDA AVE / ROSEMARY | Banyan Blvd | Lakeview Ave | 2 | 2 | 5,119 | - | 5,200 | 5,400 | 12,929 | 14,038 | 6,300 |
|  | 937554 | FLORIDA MANGO RD | Belvedere Rd | Old Okeechobee Rd | 2 | 2 |  |  | - | . | 3,657 | 4,256 | 4,300 |
| 4212 | 937028 | FLORIDA MANGO RD | 10th Ave N | Forest Hill Blvd | 2 | 3 | 14,340 | 10,014 | 10,995 | 11,389 | 9,089 | 9,548 | 11,600 |
| 3646 | 937027 | FLORIDA MANGO RD | Forest Hill Blvd | Summit Blvd | 2 | 3 | 8,650 | 6,565 | 6,289 | 6,876 | 4,051 | 6,294 | 8,500 |
| 3438 | 937326 | FOLSOM RD | Crestwood Blvd | Okeechobee BI | 2 | 2 | 4,989 | 4,492 | 4,684 | 5,000 | 1,509 | 1,828 | 5,000 |
|  | 937545 | FORDHAM DR | N Dixie Hwy | Federal Hwy | 2 | 2 |  |  | - | - | 2,310 | 2,519 | 2,500 |
| 3402 | 938524 | FOREST HILL BLVD | Southern Blvd | Wellington Trace | 6 | 6 | 39,091 | 34,180 | 35,877 | 39,500 | 21,164 | 30,642 | 45,400 |
| 3430 | 937087 | FOREST HILL BLVD | Wellington Trc | South Shore Blvd | 4 | 4 | 36,110 | 28,360 | 28,571 | 32,000 | 23,424 | 32,205 | 39,300 |
| 3407 | 937086 | FOREST HILL BLVD | South Shore Blvd | SR-7 | 6 | 6 | 57,143 | 45,720 | 47,835 | 50,083 | 61,989 | 66,987 | 52,800 |

## APPENDIX B

## PART 2: LINK ANALYSIS

## TABLE 9 - Daily Traffic Generation

| Landuse | ITE | Intensity |  | Rate/Equation | Dir Split In Out |  | Gross Trips | Internalization |  | External Trips | Pass-by |  | Net Trips |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Code |  |  | \% |  |  | Total | \% | Trips |  |  |
| Single Family Detached | 210 | 27 | Dwalling Units |  | 10 |  |  |  | 270 |  | 0 | 270 | 0\% | 0 | 270 |
|  |  |  | Grand Totals: |  |  |  | 270 | 0.0\% | 0 | 270 | 0\% | 0 | 270 |

TABLE 10 - AM Peak Hour Traffic Generation

| Landuse | ITE Code | Intensity |  | Rate/Equation | Dir Split |  | Gross Trips |  |  | Internalization |  |  |  | External Trips |  |  | Pass-by |  | Net Trips |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | In | Out | In | Out | Total | \% | In | Out | Total | In | Out | Total | \% | \| Trips | In | Out | Total |
| Single Family Detached | 210 | 27 | Dwelling Units |  | 0.7 | 0.26 | 0.74 | 5 | 14 | 19 | 0.0\% | 0 | 0 | 0 | 5 | 14 | 19 | 0\% | 0 | 5 | 14 | 19 |
|  |  |  | Grand Totals: |  |  |  | 5 | 14 | 19 | 0.0\% | 0 | 0 | 0 | 5 | 14 | 19 | 0\% | 0 | 5 | 14 | 19 |

## TABLE 11 - PM Peak Hour Traffic Generation

| Landuse | $\begin{aligned} & \hline \text { ITE } \\ & \text { Code } \end{aligned}$ | Intensity |  | Rate/Equation | Dir Split |  | Gross Trips |  |  | Internalization |  |  |  | External Trips |  |  | Pass-by |  | Net Trips |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | In | Out | In | Out | Total | \% | In | Out | Total | In | Out | Total | \% | Trips | In | Out | Total |
| Single Family Detached | 210 | 27 | Dwelling Units |  | 0.94 | 0.63 | 0.37 | 16 | 9 | 25 | 0.0\% | 0 | 0 | 0 | 16 | 9 | 25 | 0\% | 0 | 16 | 9 | 25 |
|  |  |  | Grand Totals: |  |  |  | 16 | 9 | 25 | 0.0\% | 0 | 0 | 0 | 16 | 9 | 25 | 0\% | 0 | 16 | 9 | 25 |

[^2]enaineering I plannine I crugulting I aimetiber
2581 Metrocentra Blyd West • Sulte 3 - West Palm Beach, Flarida 33407 • (561) 478-7848

FIGURE 1
PROJECT DISTRIBUTION

## FARRELL WELLINGTON

- ESTATES WEST

21-196 AL 06/17/22

2581 Metrocentre Blvd West * Suite 3 * Weat Palm Beach, Florida 33407 • (561) 478-7848


TABLE 12

## PART TWO - PROJECT LINK SIGNIFICANCE CALCULATION

AM PEAK HOUR
2026 BUILD OUT
TOTAL AM PEAK HOUR PROJECT TRIPS (ENTERING) $=5$
OTAL AM PEAK HOUR PROJECT

|  |  |  |  | AM PEAK HOUR DIRECTIONAL |  |  |  | TOTAL |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| STATION | ROADWAY | FROM | то | PROJECT DISTRIBUTION | $\begin{gathered} \text { PROJECT } \\ \text { TRIPS } \\ \hline \end{gathered}$ | $\begin{aligned} & \text { EXISTING } \\ & \text { LANES } \\ & \hline \end{aligned}$ | CLASS | $\begin{aligned} & \text { LOS D } \\ & \text { STANDARD } \end{aligned}$ | PROJECT IMPACT | PROJECT SIGNIFICANT |
| 3407 | FOREST HILL BOULEVARD | SOUTH | SITE | 30\% | 4 | 6 D | , | 3020 | 0.13\% | NO |
| 3407 | FOREST HILL BOULEVARD | SITE | SR 7 | 70\% | 10 | 6 D | I | 3020 | 0.33\% | NO |

TABLE 13
PART TWO - PROJECT LINK SIGNIFICANCE CALCULATION
PM PEAK HOUR
2026 BUILD OUT
TOTAL PM PEAK HOUR PROJECT TRIPS (ENTERING) $=16$
TOTAL PM PEAK HOUR PROJECT TRIPS (EXITING)

| STATION | ROADWAY | FROM |  | PM PEAK HOUR DIRECTIONAL |  |  |  | TOTAL |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | T0 | $\qquad$ | $\begin{gathered} \text { PROJECT } \\ \text { TRIPS } \\ \hline \end{gathered}$ | $\begin{gathered} \text { EXISTING } \\ \text { LANES } \\ \hline \end{gathered}$ | CLASS | $\begin{aligned} & \text { LOS D } \\ & \text { STANDARD } \end{aligned}$ | PROJECT IMPACT | PROJECT SIGNIFICANT |
| 3407 | FOREST HILL BOULEVARD | SOUTH SHORE BOULEVARD | SITE | 30\% | 5 | 6 D | 1 | 3020 | 0.17\% | NO |
| 3407 | FOREST HILL BOULEVARD | SITE | SR 7 | 70\% | 11 | 6 D | , | 3020 | 0.36\% | NO |



2026 BUILD OUT
TOTA PM PEAK HOUR PROJECT TRIPS (ENTERNG) -
TOTAL PM PEAK HOUR PROJECT TRIPS (EXTTNG):


Exhibit 3A
Wellington Speed and Count Study
Traffic Volume and Growth - Weekday

| Loc\# | Road | From | To | Lanes | Daily Traffic Volumes |  |  | 2022 AM Peak Hour ${ }^{2}$ |  | 2022 PM Peak Hour ${ }^{2}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | $2018{ }^{\text {' }}$ | $2022{ }^{2}$ | 4-Yr Growth Rate | NB/EB | SB/WB | NB/EB | SB/WB |
| 1 | Flying Cow Ranch Road | Southern Boulevard | 1 Mile South | 2 L | 1,708 | 1,782 | 1.07\% / Year | 51 | 84 | 83 | 87 |
| 2 | Flying Cow Ranch Road | 1 Mile South | Rustic Road | 2 L | N/A | 1,784 | Near | 50 | 84 | 77 | 75 |
| 3 | Binks Forest Drive | Southern Boulevard | Greenview Shores Boulevard | 4LD | 13,181 | 13,373 | 0.36\% / Year | 749 | 575 | 589 | 600 |
| 4 | Aero Club Drive | Binks Forest Drive | Greenbriar Boulevard | 2 L | 5,817 | 4,098 | -8.38\% / Year | 115 | 213 | 194 | 150 |
| 5 | Greenbriar Boulevard | Aero Club Drive | Greenview Shores Boulevard | 2 L | 6,301 | 2,999 | -16.94\% Year | 192 | 167 | 216 | 168 |
| 6 | Greenview Shores Boulevard | Binks Forest Drive | Wellington Trace | 4LD | 13,212 | 13,082 | -0.25\% / Year | 484 | 430 | 651 | 608 |
| 7 | Greenview Shores Boulevard | Wellington Trace | South Shore Boulevard | 4LD | 19,343 | 16,708 | -3.59\% / Year | 641 | 824 | 722 | 731 |
| 8 | Wellington Trace | Greenview Shores Boulevard | Big Blue Trace | 4LD | 24,104 | 23,493 | -0.64\% / Year | 875 | 788 | 963 | 996 |
| 9 | Wellington Trace | Big Blue Trace | Forest Hill Boulevard (North) | 4LD | 21,732 | 22,600 | 0.98\% / Year | 963 | 783 | 885 | 1,027 |
| 10 | Wellington Trace | Forest Hill Boulevard (North) | Forest Hill Boulevard (South) | 2 L | 6,033 | 5,900 | -0.56\% / Year | 343 | 224 | 306 | 271 |
| 11 | Paddock Drive | Greenview Shores Boulevard | Big Blue Trace | 2 L | 2,438 | 2,667 | 2.27\% / Year | 120 | 110 | 187 | 131 |
| 12 | Big Blue Trace | Southern Boulevard | Wellington Trace | 2L/4L | 11,465 | 8,443 | -7.36\% / Year | 436 | 390 | 336 | 394 |
| 13 | Big Blue Trace | Wellington Trace | South Shore Boulevard | 2 L | 11,760 | 11,565 | -0.42\% / Year | 271 | 506 | 481 | 480 |
| 14 | Forest Hill Boulevard | Southern Boulevard | Wellington Trace | 6LD | 39,502 | 47,545 | 4.74\% / Year | 1,441 | 2,368 | 1,768 | 2,220 |
| 15 | Forest Hill Boulevard ${ }^{3}$ | Wellington Trace | South Shore Boulevard | 4LD/6LD | 30,258 | 28,664 | -1.34\% / Year | 930 | 1,215 | 1,248 | 1,275 |
| 16 | Forest Hill Boulevard | South Shore Boulevard | SR 7 | 6LD | 49,836 | 53,987 | 2.02\% / Year | 2,546 | 1,622 | 2,330 | 2,202 |
| 17 | Birkdale Drive | Forest Hill Boulevard | Wellington Trace | 2 L | 4,229 | 3,303 | -5.99\% / Year | 113 | 211 | 239 | 98 |
| 18 | Stribling Way | Forest Hill Boulevard | Pierson Road | 2 L | 13,259 | 13,303 | 0.08\% / Year | 265 | 799 | 610 | 651 |
| 19 | Stribling Way | Pierson Road | SR 7 | 2 L | 16,078 | 14,618 | -2.35\% / Year | 737 | 443 | 743 | 670 |
| 20 | Stribling Way | SR 7 | Lyons Road | 2 L | 5,613 | 6,315 | 2.99\% / Near | 467 | 437 | 408 | 250 |
| 21 | South Shore Boulevard ${ }^{3}$ | Forest Hill Boulevard | Greenview Shores Boulevard | 4LD | 26,302 | 14,057 | -14.50\% / Year | 639 | 716 | 627 | 501 |
| 22 | South Shore Boulevard | Greenview Shores Boulevard | Pierson Road | 4LD | 23,417 | 19,837 | -4.06\% / Year | 528 | 875 | 986 | 688 |
| 23 | South Shore Boulevard | Pierson Road | Lake Worth Road | 2LD | 18,764 | 16,444 | -3.25\% / Year | 486 | 733 | 816 | 598 |
| 24 | 40th Street South | Palm Beach Point Boulevard | Lake Worth Road | 2 L | N/A | 2,187 | / Year | 39 | 94 | 131 | 78 |
| 25 | Lake Worth Road | South Shore Boulevard | 120th Avenue South | 2 L | 12,936 | 11,164 | -3.62\% / ear | 469 | 398 | 457 | 557 |
| 26 | Pierson Road | South Shore Boulevard | Stribling Way | 2 L | 4,743 | 4,238 | -2.78\% / Year | 132 | 141 | 209 | 214 |
| 27 | Pierson Road | Ousley Farms Road | South Shore Boulevard | 2 L | 10,154 | 4,796 | -17.10\% / Year | 166 | 245 | 214 | 165 |
| 28 | South Shore Boulevard | Lake Worth Road | 50th Street South | 2 L | 5,202 | 4,600 | -3.03\% / Year | 106 | 230 | 242 | 138 |
| 29 | 120th Avenue South | Pierson Road | Lake Worth Road | 2 L | 1,056 | 4,001 | 39.52\% / Year | 149 | 114 | 274 | 168 |
| 30 | 120th Avenue South | Lake Worth Road | 50th Street South | 2 L | 3,461 | 1,800 | -15.08\% / Year | 53 | 75 | 75 | 79 |
| 31 | 50th Street South | 130th Avenue South | 120th Avenue South | 2 L | 3,523 | 4,029 | 3.41\% / Year | 146 | 159 | 199 | 146 |
| 32 | Little Ranches Trail | Southern Boulevard | Acme Road | 2 L | 2,381 | 2,304 | -0.82\% / Year | 92 | 76 | 88 | 87 |

[^3]
## APPENDIX C

## PBC TPS DATABASE LINK \& INTERSECTION VOLUME SHEETS <br> (WITH APPROVED COMMITTED TRIPS)



Input Data
ROAD NAME: Forest Hill Blyd CURRENT YEAR: 2020
ANALYSIS YEAR: 2026
STATION: 3407
Report Created
06/17/2022

GROWTH RATE: $-0.17 \%$
FROM: MIDPOINT TO: Stribling Way COUNT DATE: 03/03/2020 PSF: 1

Time Period
Direction
Existing Volume
Peak Volume
Diversion(\%)
Volume after Diversion

| Committed Developments |  |  |  |  |  |  | Type | mplete |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Raising Canes | 3 | 2 | 1 | 3 | 1 | 1 | NR | 75\% |
| Palms West Medical | 3 | 1 | 2 | 3 | 2 | 1 | NR | 92\% |
| Groves at Royal Palm | 0 | 0 | 0 | 0 | 0 | 0 | NR | 100\% |
| Castellina | 0 | 0 | 0 | 0 | 0 | 0 | Res | 100\% |
| Oakmont Estates | 0 | 0 | 0 | 0 | 0 | 0 | Res | 100\% |
| Palms West Hospital | 2 | 1 | 1 | 2 | 1 | 1 | NR | 95\% |
| Western Plaza | 17 | 9 | 8 | 47 | 23 | 24 | NR | 75\% |
| Isla Verde | 0 | 0 | 0 | 0 | 0 | 0 | NR | 100\% |
| Southern Palm Crossing | 3 | 2 | 1 | 7 | 4 | 4 | NR | 70\% |
| Ching SR 7 | 0 | 0 | 0 | 0 | 0 | 0 | NR | 100\% |
| Buena Vida | 0 | 0 | 0 | 0 | 0 | 0 | Res | 100\% |
| Olympia | 0 | 0 | 0 | 0 | 0 | 0 | Res | 100\% |
| Lotis of Wellington | 53 | 29 | 24 | 106 | 55 | 52 | NR | 0\% |
| Royal Palm Retail | 0 | 0 | 0 | 0 | 0 | 0 | NR | 100\% |
| Wellington Mall | 12 | 6 | 6 | 45 | 23 | 21 | NR | 90\% |
| Wellington Regional Medical Center | 49 | 35 | 15 | 58 | 19 | 39 | NR | 80\% |
| Southern Center | 1 | 0 | 0 | 3 | 1 | 2 | NR | 90\% |
| Wellington View | 0 | 0 | 0 | 0 | 0 | 0 | Res | 100\% |
| Pioneer Road Commercial / Residential | 4 | 1 | 2 | 28 | 14 | 14 | NR | 50\% |
| Village Green | 11 | 7 | 5 | 28 | 13 | 15 | NR | 65\% |
| 278 ProffessionalWay | 1 | 0 | 1 | 2 | 1 | 1 | NR | 65\% |
| Enclave at Royal Palm Beach | 0 | 0 | 0 | 0 | 0 | 0 | Res | 100\% |
| Wellington Charter School | 49 | 27 | 22 | 13 | 6 | 7 | NR | 65\% |
| Alzheimers Community Care | 9 | 5 | 4 | 9 | 4 | 5 | NR | 46\% |
| Wellington Plaza | 1 | 0 | 1 | 4 | 2 | 1 | NR | 97\% |
| Flying Cow Ranch | 0 | 0 | 0 | 0 | 0 | 0 | Res | 0\% |
| Islepointe | 0 | 0 | 0 | 0 | 0 | 0 | Res | 0\% |
| Village Royale Charter School | 182 | 111 | 71 | 38 | 17 | 22 | Res | 0\% |
| Lotis II | 20 | 4 | 16 | 26 | 17 | 9 | Res | 0\% |
| Total Committed Developments | 420 | 240 | 180 | 422 | 203 | 219 |  |  |
| Total Committed Residential | 202 | 115 | 87 | 64 | 34 | 31 |  |  |
| Total Committed Non-Residential | 218 | 125 | 93 | 358 | 169 | 188 |  |  |
| Double Count Reduction | 44 | 25 | 19 | 16 | 9 | 8 |  |  |
| Total Discounted Committed |  |  |  |  |  |  |  |  |
| Developments | 376 | 215 | 161 | 406 | 194 | 211 |  |  |
| Historical Growth | -35 | -20 | -15 | -41 | -18 | -23 |  |  |
| Comm Dev+1\% Growth | 584 | 335 | 252 | 652 | 303 | 350 |  |  |
| Growth Volume Used | 584 | 335 | 252 | 652 | 303 | 350 |  |  |
| Total Volume | 3963 | 2281 | 1731 | 4650 | 2076 | 2604 |  |  |
| Lanes |  |  |  |  |  |  |  |  |
| LOS D Capacity | 4880 | 2680 | 2680 | 4880 | 2680 | 2680 |  |  |
| Link Meets Test 1? | YES | YES | YES | YES | YES | YES |  |  |
| LOS E Capacity | 5150 | 2830 | 2830 | 5150 | 2830 | 2830 |  |  |
| Link Meets Test 2? | YES | YES | YES | YES | YES | YES |  |  |



Time Period
Direction
Existing Volume
Peak Volume
Diversion(\%)
Volume after Diversion

| Committed Developments |
| :--- |
| Raising Canes |
| Palms West Medical |
| Groves at Royal Palm |
| Castellina |
| Oakmont Estates |
| Palms West Hospital |
| Western Plaza |
| Isla Verde |
| Palomino Exec Park |
| Southern Palm Crossing |
| Ching SR 7 |
| Buena Vida |
| Olympia |
| Lotis of Wellington |
| Royal Palm Retail |
| Wellington Mall |
| Wellington Regional Medical Center |
| Southern Center |
| Wellington View |
| Wellington Parc |
| Pioneer Road Commercial / Residential |
| Village Green |
| 278 ProffessionalWay |
| Enclave at Royal Palm Beach |
| Cheddars Cafe |
| Wellington Charter School |
| Wellington Tennis Facility |
| Alzheimers Community Care |
| Anthony Groves Plaza-Lot 1 |
| Flying Cow Ranch |
| Islepointe |
| Village Royale Charter School |
| Lotis II |
| Total Committed Developments |
| Total Committed Residential |
| Total Committed Non-Residential |
| Double Count Reduction |
| Total Discounted Committed |
| Developments |
| Historical Growth |
| Comm Dev+ $1 \%$ Growth |
| Growth Volume Used |
| Total Volume |

Total Volume
Lanes
LOS D Capacity
Link Meets Test 1 ?
LOS E Capacity
Link Meets Test 2?

| Type \% Complete |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 3 | 2 | 1 | 3 | 1 | 1 | NR | 75\% |
| 3 | 1 | 2 | 3 | 2 | 1 | NR | 92\% |
| 0 | 0 | 0 | 0 | 0 | 0 | NR | 100\% |
| 0 | 0 | 0 | 0 | 0 | 0 | Res | 100\% |
| 0 | 0 | 0 | 0 | 0 | 0 | Res | 100\% |
| 2 | 1 | 1 | 2 | 1 | 1 | NR | 95\% |
| 17 | 9 | 8 | 47 | 23 | 24 | NR | 75\% |
| 0 | 0 | 0 | 0 | 0 | 0 | NR | 100\% |
| 0 | 0 | 0 | 0 | 0 | 0 | NR | 100\% |
| 3 | 2 | 1 | 7 | 4 | 4 | NR | 70\% |
| 0 | 0 | 0 | 0 | 0 | 0 | NR | 100\% |
| 0 | 0 | 0 | 0 | 0 | 0 | Res | 100\% |
| 0 | 0 | 0 | 0 | 0 | 0 | Res | 100\% |
| 53 | 29 | 24 | 106 | 55 | 52 | NR | 0\% |
| 0 | 0 | 0 | 0 | 0 | 0 | NR | 100\% |
| 12 | 6 | 6 | 45 | 23 | 21 | NR | 90\% |
| 54 | 16 | 38 | 63 | 43 | 21 | NR | 80\% |
| 1 | 0 | 0 | 3 | 1 | 2 | NR | 90\% |
| 0 | 0 | 0 | 0 | 0 | 0 | Res | 100\% |
| 7 | 4 | 3 | 7 | 3 | 4 | NR | 50\% |
| 5 | 2 | 4 | 41 | 20 | 20 | NR | 50\% |
| 2 | 1 | 1 | 5 | 3 | 2 | NR | 65\% |
| 1 | 0 | 1 | 2 | 1 | 1 | NR | 65\% |
| 0 | 0 | 0 | 0 | 0 | 0 | Res | 100\% |
| 5 | 3 | 2 | 6 | 2 | 3 | NR | 75\% |
| 45 | 25 | 20 | 12 | 6 | 7 | NR | 65\% |
| 0 | 0 | 0 | 0 | 0 | 0 | Res | 100\% |
| 8 | 4 | 4 | 8 | 4 | 4 | NR | 46\% |
| 7 | 4 | 3 | 15 | 8 | 8 | NR | 60\% |
| 0 | 0 | 0 | 0 | 0 | 0 | Res | 0\% |
| 0 | 0 | 0 | 0 | 0 | 0 | Res | 0\% |
| 182 | 111 | 71 | 38 | 17 | 22 | Res | 0\% |
| 22 | 5 | 17 | 28 | 18 | 10 | Res | 0\% |
| 432 | 225 | 207 | 441 | 235 | 208 |  |  |


| 204 | 225 | 207 | 441 | 235 | 208 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 116 | 88 | 66 | 35 | 32 |  |


| 228 | 109 | 119 | 375 | 200 | 176 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 46 | 22 | 22 | 17 | 9 | 8 |


| 386 | 203 | 185 | 424 | 226 | 200 |
| :--- | :--- | :--- | :--- | :--- | :--- |


| -35 | -20 | -15 | -41 | -18 | -23 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 594 | 323 | 276 | 670 | 335 | 339 |
| 594 | 323 | 276 | 670 | 335 | 339 |
| 3973 | 2269 | 1755 | 4668 | 2108 | 2593 |


| $6 L D$ |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 4880 | 2680 | 2680 | 4880 | 2680 | 2680 |
| YES | YES | YES | YES | YES | YES |
| 5150 | 2830 | 2830 | 5150 | 2830 | 2830 |
| YES | YES | YES | YES | YES | YES |


| Input Data |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ROAD NAME: Forest Hill Blvd CURRENT YEAR: 2020 |  |  | STATION: 3407 |  |  |  | Report Created 06/17/2022 |
|  |  |  | FROM: MIDPOINT |  |  |  |  |
| ANALYSIS YEAR: 2026 |  |  | TO: S State Road 7 |  |  |  |  |
| GROWTH RATE: -0.17\% |  |  | COUNT DATE: 03/03/2020 |  |  |  |  |
|  |  |  |  | PSF: |  |  |  |
| Link Analysis |  |  |  |  |  |  |  |
| AM |  |  |  |  | PM |  |  |
|  | 2-way | NB/EB | SB/WB | 2-way | NB/EB | SB/WB |  |
|  | 3379 | 1946 | 1479 | 3998 | 1773 | 2254 |  |
|  | 3379 | 1946 | 1479 | 3998 | 1773 | 2254 |  |
|  | 0 | 0 | 0 | 0 | 0 | 0 |  |
|  | 3379 | 1946 | 1479 | 3998 | 1773 | 2254 |  |

Time Period
Direction
Existing Volume
Peak Volume
Diversion(\%)
Volume after Diversion

| Committed Developments |  |  |  |  |  |  | Type | mplete |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Raising Canes | 3 | 2 | 1 | 3 | 1 | 1 | NR | 75\% |
| Palms West Medical | 3 | 1 | 2 | 3 | 2 | 1 | NR | 92\% |
| Groves at Royal Palm | 0 | 0 | 0 | 0 | 0 | 0 | NR | 100\% |
| Palms West Hospital | 2 | 1 | 1 | 2 | 1 | 1 | NR | 95\% |
| Western Plaza | 17 | 9 | 8 | 47 | 23 | 24 | NR | 75\% |
| Isla Verde | 0 | 0 | 0 | 0 | 0 | 0 | NR | 100\% |
| Palomino Exec Park | 0 | 0 | 0 | 0 | 0 | 0 | NR | 100\% |
| Southern Palm Crossing | 3 | 2 | 1 | 7 | 4 | 4 | NR | 70\% |
| Ching SR 7 | 0 | 0 | 0 | 0 | 0 | 0 | NR | 100\% |
| Buena Vida | 0 | 0 | 0 | 0 | 0 | 0 | Res | 100\% |
| Olympia | 0 | 0 | 0 | 0 | 0 | 0 | Res | 100\% |
| Lotis of Wellington | 53 | 29 | 24 | 106 | 55 | 52 | NR | 0\% |
| Royal Palm Retail | 0 | 0 | 0 | 0 | 0 | 0 | NR | 100\% |
| Wellington Mall | 25 | 12 | 14 | 94 | 45 | 49 | NR | 90\% |
| Wellington Regional Medical Center | 56 | 17 | 39 | 66 | 44 | 22 | NR | 80\% |
| Southern Center | 1 | 0 | 0 | 3 | 1 | 2 | NR | 90\% |
| Wellington View | 0 | 0 | 0 | 0 | 0 | 0 | Res | 100\% |
| Wellington Parc | 7 | 4 | 3 | 7 | 3 | 4 | NR | 50\% |
| Pioneer Road Commercial / Residential | 5 | 2 | 4 | 41 | 20 | 20 | NR | 50\% |
| 278 ProffessionalWay | 1 | 0 | 1 | 2 | 1 | 1 | NR | 65\% |
| Enclave at Royal Palm Beach | 0 | 0 | 0 | 0 | 0 | 0 | Res | 100\% |
| Cheddars Cafe | 5 | 3 | 2 | 6 | 2 | 3 | NR | 75\% |
| Wellington Charter School | 45 | 25 | 20 | 12 | 6 | 7 | NR | 65\% |
| Wellington Tennis Facility | 0 | 0 | 0 | 0 | 0 | 0 | Res | 100\% |
| Alzheimers Community Care | 8 | 4 | 4 | 8 | 4 | 4 | NR | 46\% |
| Anthony Groves Plaza-Lot 1 | 7 | 4 | 3 | 15 | 8 | 8 | NR | 60\% |
| Flying Cow Ranch | 0 | 0 | 0 | 0 | 0 | 0 | Res | 0\% |
| Islepointe | 0 | 0 | 0 | 0 | 0 | 0 | Res | 0\% |
| Village Royale Charter School | 182 | 111 | 71 | 38 | 17 | 22 | Res | 0\% |
| Lotis II | 22 | 5 | 17 | 28 | 18 | 10 | Res | 0\% |
| Total Committed Developments | 445 | 231 | 215 | 488 | 255 | 235 |  |  |
| Total Committed Residential | 204 | 116 | 88 | 66 | 35 | 32 |  |  |
| Total Committed Non-Residential | 241 | 115 | 127 | 422 | 220 | 203 |  |  |
| Double Count Reduction | 48 | 23 | 22 | 17 | 9 | 8 |  |  |
| Total Discounted Committed |  |  |  |  |  |  |  |  |
| Developments | 397 | 208 | 193 | 471 | 246 | 227 |  |  |
| Historical Growth | -35 | -20 | -15 | -41 | -18 | -23 |  |  |
| Comm Dev+1\% Growth | 605 | 328 | 284 | 717 | 355 | 366 |  |  |
| Growth Volume Used | 605 | 328 | 284 | 717 | 355 | 366 |  |  |
| Total Volume | 3984 | 2274 | 1763 | 4715 | 2128 | 2620 |  |  |
| Lanes |  |  | 6 L |  |  |  |  |  |
| LOS D Capacity | 4880 | 2680 | 2680 | 4880 | 2680 | 2680 |  |  |
| Link Meets Test 1 ? | YES | YES | YES | YES | YES | YES |  |  |
| LOS E Capacity | 5150 | 2830 | 2830 | 5150 | 2830 | 2830 |  |  |
| Link Meets Test 2? | YES | YES | YeS | YES | YES | YES |  |  |



2026 BUILD OUT
TOTAL LP P PAK HOUR PROJECT TRIPS (ENTEING) -
TOTAL PM PEAK HOUR PROJECT TRIPS (EXTTNG):


## APPENDIX D

## INTERSECTION ANALYSIS

## INPUT DATA

Comments: Background traflic, without project, existing geometry
Grower Rate = 1.00\% Peak Season = 1.03 Current Year = $2022 \quad$ Buildou Year $=2026$

| AM Peak Hour |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Northbound |  |  | Southbound |  |  | Eastbound |  |  | Westbound |  |  |
|  | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right |
| Existing Volume (2022) | 33 | 2 | 60 | 355 | 5 | 193 | 140 | 2118 | 26 | 197 | 1329 | 216 |
| Peak Season Adjustment | 1 | 0 | 2 | 11 | 0 | 6 | 4 | 64 | 1 | 6 | 40 | 6 |
| Background Traffic Growth | 1 | 0 | 3 | 15 | 0 | 8 | 6 | 89 | 1 | 8 | 56 | 9 |
| 1.0\% Background Growth | 1 | 0 | 3 | 15 | 0 | 8 | 6 | 89 | 1 | 8 | 56 | 9 |
| Major Projects Traffic ${ }^{+}$ | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 215 | 0 | 0 | 161 | 0 |
| Farrel East Traffic | 2 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 0 |
| 1\% BGR + Major Projects | 3 | 0 | 8 | 15 | 0 | 8 | 6 | 304 | 2 | 10 | 217 | 9 |
| Project Traffic | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 37 | 2 | 69 | 380 | 5 | 207 | 150 | 2485 | 29 | 213 | 1585 | 232 |
| Approach Total | 109 |  |  | 593 |  |  | 2,664 |  |  | 2,030 |  |  |
| CRITICAL VOLUME ANALYSIS |  |  |  |  |  |  |  |  |  |  |  |  |
| No. of Lanes | 1 | 1 | < | 2 | 1 | $<$ | 1 | 3 | $<$ | 1 | 3 | 1 |
| Per Lane Volume | 37 71 |  |  | 180 | 212 |  | 150 | 838 |  | 213 | 528 | 232 |
| Right on Red |  |  | 10 |  |  | 10 |  |  | 10 |  |  | 0 |
| Overlaps Left |  |  | 213 |  |  | 150 |  |  | 37 |  |  | 190 |
| Adj. Per Lane Volume | 37 | 61 |  | 180 | 202 |  | 150 | 828 |  | 213 | 528 | 41 |
| Through/Right Volume | 61 |  |  | 202 |  |  | 828 |  |  | 528 |  |  |
| Opposing Left Turns | 190 |  |  | 37 |  |  | 213 |  |  | 150 |  |  |
| Critical Volume for Approach | 252 |  |  | 240 |  |  | 1041 |  |  | 679 |  |  |
| Critical Volume for Direction | 252 |  |  |  |  |  | 1041 |  |  |  |  |  |
| Intersection Critical Volume | 1,293 |  |  |  |  |  |  |  |  |  |  |  |
| STATUS? | NEAR |  |  |  |  |  |  |  |  |  |  |  |



| PM Peak Hour <br> INTERSECTION VOLUME DEVELOPMENT |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Norithbound |  |  | Southbound |  |  | Eastbound |  |  | Westbound |  |  |
|  | Left | Thru | Right | Left | Thru | Right | Lefl | Thru | Right | Lefl | Thru | Right |
| Existing Volume (2022) | 33 | 2 | 95 | 170 | 2 | 65 | 58 | 1878 | 39 | 107 | 2023 | 60 |
| Peak Season Adjustment | 1 | 0 | 3 | 5 | 0 | 2 | 2 | 56 | 1 | 3 | 61 | 2 |
| Background Traffic Growth | 1 | 0 | 4 | 7 | 0 | 3 | 2 | 79 | 2 | 4 | 85 | 3 |
| 1.0\% Background Growth | 1 | 0 | 4 | 7 | 0 | 3 | 2 | 79 | 2 | 4 | 85 | 3 |
| Major Projects Traffic* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 194 | 0 | 0 | 211 | 0 |
| Farrel East Traffic | 2 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 2 | 6 | 0 | 0 |
| 1\% BGR + Major Projects | 3 | 0 | 8 | 7 | 0 | 3 | 2 | 273 | 4 | 10 | 296 | 3 |
| Project Traffic | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 37 | 2 | 106 | 182 | 2 | 70 | 62 | 2207 | 44 | 121 | 2379 | 64 |
| Approach Total |  | 145 |  |  | 254 |  |  | 2,313 |  |  | 2,564 |  |
| CRITICAL VOLUME ANALYSIS |  |  |  |  |  |  |  |  |  |  |  |  |
| No. of Lanes | 1 | 1 | < | 2 | 1 | < | 1 | 3 | $<$ | 1 | 3 | 1 |
| Per Lane Volume | 37 108 |  |  | 91 | 72 |  | 62 | 750 |  | 121 | 793 | 64 |
| Right on Red |  |  | 10 |  |  | 10 |  |  | 10 |  |  | 60 |
| Overlaps Left |  |  | 121 |  |  | 62 |  |  | 37 |  |  | 91 |
| Adj. Per Lane Volume | 37 | 98 |  | 91 | 62 |  | 62 | 740 |  | 121 | 793 | 0 |
| Through/Right Volume | 98 |  |  | 62 |  |  | 740 |  |  | 793 |  |  |
| Opposing Lefl Turns | 91 |  |  | 37 |  |  | 121 |  |  | 62 |  |  |
| Critical Volume for Approach Critical Volume for Direction | 189 |  |  | 99 |  |  | 861 |  |  | 855 |  |  |
|  | 189 |  |  |  |  |  | 861 |  |  |  |  |  |
| Intersection Critical Volume | 1,050 |  |  |  |  |  |  |  |  |  |  |  |
| STATUS? | UNDER |  |  |  |  |  |  |  |  |  |  |  |

[^4]
## INPUT DATA

Comments: Future traffic (WITH project), exsuing geomery
Groweh Rate = $1.00 \%$ Peak Season = $1.03 \quad$ Curren Year = $2022 \quad$ Buidoun Year = 2026

| AM Peak Hour |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Northbound |  |  | Southbound |  |  | Eastbound |  |  | Westbound |  |  |
|  | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right |
| Existing Volume (2022) | 33 | 2 | 60 | 355 | 5 | 193 | 140 | 2118 | 26 | 197 | 1329 | 216 |
| Peak Season Adjustment | 1 | 0 | 2 | 11 | 0 | 6 | 4 | 64 | 1 | 6 | 40 | 6 |
| Background Traffic Growth | 1 | 0 | 3 | 15 | 0 | 8 | 6 | 89 | 1 | 8 | 56 | 9 |
| 1.0\% Background Growth | 1 | 0 | 3 | 15 | 0 | 8 | 6 | 89 | 1 | 8 | 56 | 9 |
| Major Projects Traffic ${ }^{+}$ | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 215 | 0 | 0 | 161 | 0 |
| Farrel East Traffic | 2 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 0 |
| 1\% BGR + Major Projects | 3 | 0 | 8 | 15 | 0 | 8 | 6 | 304 | 2 | 10 | 217 | 9 |
| Project Traffic | 4 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 2 | 4 | 0 | 0 |
| Total | 41 | 2 | 79 | 380 | 5 | 207 | 150 | 2485 | 31 | 217 | 1585 | 232 |
| Approach Total | 123 |  |  | 593 |  |  | 2,666 |  |  | 2,034 |  |  |
| CRITICAL VOLUME ANALYSIS |  |  |  |  |  |  |  |  |  |  |  |  |
| No. of Lanes | 1 | 1 | < | 2 | 1 | $<$ | 1 | 3 | $<$ | 1 | 3 | 1 |
| Per Lane Volume | 41 81 |  |  | 180 | 212 |  | 150 | 839 |  | 217 | 528 | 232 |
| Right on Red |  |  | 10 |  |  | 10 |  |  | 10 |  |  | 0 |
| Overlaps Left |  |  | 217 |  |  | 150 |  |  | 41 |  |  | 190 |
| Adj. Per Lane Volume | 41 | 71 |  | 180 | 202 |  | 150 | 829 |  | 217 | 528 | 41 |
| Through/Right Volume | 71 |  |  | 202 |  |  | 829 |  |  | 528 |  |  |
| Opposing Left Turns | 190 |  |  | 41 |  |  | 217 |  |  | 150 |  |  |
| Critical Volume for Approach | 262 |  |  | 244 |  |  | 1046 |  |  | 679 |  |  |
| Critical Volume for Direction | 262 |  |  |  |  |  | 1046 |  |  |  |  |  |
| Intersection Critical Volume | 1,308 |  |  |  |  |  |  |  |  |  |  |  |
| STATUS? | NEAR |  |  |  |  |  |  |  |  |  |  |  |



X:LDocuments\PROJECTSI2021121-196 PB Polo Soccer SitelTraffic\Estates West_Traffic Calcs.rev2.xisx

```
2 0 2 1 \text { PEAK SEASON FACTOR CATEGORY REPORT - REPORT TYPE: ALL}
``` CATEGORY: 9327 WEST-W OF SR7

MOCF: 0.95

* PEAK SEASON

Manual Traffic Count - All Traffic
Forest Hill Blvd \& Polo Club/Royal Fern Wellington, FL

File Name : FOPO
Site Code : SW2228
Start Date : 10/18/2022
Page No : 1

Groups Printed- All traffic
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline & \multicolumn{4}{|c|}{Polo Club Rd NB} & \multicolumn{4}{|c|}{Royal Fern Dr
SB} & \multicolumn{4}{|c|}{Forest Hill Blvd EB} & \multicolumn{4}{|c|}{Forest Hill Blvd WB} & \\
\hline Start Time & Left & Thru & Right & Peds & Left & Thru & Right & Peds & Left & Thru & Right & UTurn & Left & Thru & Right & UTurn & Int \\
\hline 07:00 AM & 2 & 1 & 13 & 3 & 64 & 0 & 8 & 2 & 38 & 413 & 3 & 2 & 7 & 322 & 29 & 25 & 932 \\
\hline 07:15 AM & 8 & 0 & 4 & 2 & 69 & 1 & 49 & 2 & 47 & 484 & 5 & 1 & 6 & 286 & 46 & 39 & 1049 \\
\hline 07:30 AM & 10 & 0 & 10 & 1 & 109 & 2 & 54 & 0 & 41 & 571 & 5 & 2 & 5 & 375 & 50 & 29 & 1264 \\
\hline 07:45 AM & 6 & 2 & 24 & 0 & 87 & 2 & 57 & 0 & 37 & 503 & 8 & 1 & 18 & 360 & 105 & 55 & 1265 \\
\hline Total & 26 & 3 & 51 & 6 & 329 & 5 & 168 & 4 & 163 & 1971 & 21 & 6 & 36 & 1343 & 230 & 148 & 4510 \\
\hline 08:00 AM & 9 & 0 & 22 & 0 & 90 & 0 & 33 & 1 & 11 & 560 & 8 & 0 & 29 & 308 & 15 & 16 & 1102 \\
\hline 08:15 AM & 7 & 0 & 7 & 1 & 53 & 1 & 7 & 0 & 24 & 549 & 8 & 0 & 18 & 344 & 17 & 9 & 1045 \\
\hline 08:30 AM & 6 & 3 & 13 & 0 & 42 & 2 & 18 & 0 & 21 & 440 & 9 & 0 & 24 & 320 & 27 & 8 & 933 \\
\hline 08:45 AM & 5 & 0 & 17 & 2 & 59 & 1 & 15 & 1 & 17 & 401 & 11 & 0 & 22 & 308 & 13 & 6 & 878 \\
\hline Total & 27 & 3 & 59 & 3 & 244 & 4 & 73 & 2 & 73 & 1950 & 36 & 0 & 93 & 1280 & 72 & 39 & 3958 \\
\hline
\end{tabular}
*** BREAK ***
\begin{tabular}{r|rrrr|rrrr|rrrr|rrrr|r} 
04:00 PM & 10 & 0 & 32 & 2 & 54 & 2 & 24 & 0 & 11 & 365 & 10 & 3 & 17 & 408 & 9 & 12 & 959 \\
04:15 PM & 16 & 0 & 32 & 1 & 27 & 0 & 17 & 1 & 17 & 429 & 5 & 1 & 17 & 439 & 15 & 4 & 1021 \\
04:30 PM & 9 & 0 & 31 & 0 & 38 & 0 & 11 & 0 & 10 & 488 & 12 & 0 & 21 & 510 & 14 & 9 & 1153 \\
04:45 PM & 9 & 2 & 27 & 1 & 45 & 0 & 14 & 0 & 15 & 457 & 6 & 0 & 15 & 434 & 21 & 10 & 1056 \\
\hline Total & 44 & 2 & 122 & 4 & 164 & 2 & 66 & 1 & 53 & 1739 & 33 & 4 & 70 & 1791 & 59 & 35 & 4189 \\
& & & & & & & & & & & & & & & & & \\
05:00 PM & 9 & 0 & 18 & 0 & 42 & 1 & 20 & 1 & 18 & 512 & 12 & 0 & 21 & 532 & 7 & 9 & 1202 \\
05:15 PM & 6 & 0 & 19 & 0 & 45 & 1 & 20 & 1 & 15 & 421 & 9 & 0 & 15 & 547 & 18 & 7 & 1124 \\
05:30 PM & 11 & 1 & 24 & 1 & 61 & 0 & 14 & 0 & 4 & 377 & 5 & 0 & 17 & 467 & 8 & 7 & 997 \\
05:45 PM & 4 & 1 & 21 & 1 & 35 & 0 & 22 & 0 & 7 & 445 & 14 & 0 & 11 & 504 & 8 & 2 & 1075 \\
Total & 30 & 2 & 82 & 2 & 183 & 2 & 76 & 2 & 44 & 1755 & 40 & 0 & 64 & 2050 & 41 & 25 & 4398 \\
& & & & & & & & & & & & & & & & \\
Grand Total & 127 & 10 & 314 & 15 & 920 & 13 & 383 & 9 & 333 & 7415 & 130 & 10 & 263 & 6464 & 402 & 247 & 17055
\end{tabular}

Manual Traffic Count - All Traffic Forest Hill Blvd \& Polo Club/Royal Fern Wellington, FL

File Name : FOPO
Site Code : SW2228
Start Date : 10/18/2022
Page No : 2
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline & \multicolumn{5}{|c|}{Polo Club Rd NB} & \multicolumn{5}{|c|}{\[
\begin{aligned}
& \text { Royal Fern Dr } \\
& \text { SB }
\end{aligned}
\]} & \multicolumn{5}{|c|}{Forest Hill Blvd EB} & \multicolumn{5}{|c|}{Forest Hill Blvd WB} & \\
\hline Start Time & Left & Thru & Right & Peds & Toan & Left & Thru & Right & Peds & seat Tat & Left & Thru & Right & Uum & Apeat Tean & Left & Thru & Right & UTum & Aneo Toad & toal \\
\hline \multicolumn{22}{|l|}{Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1} \\
\hline \multicolumn{22}{|l|}{Peak Hour for Entire Intersection Begins at 07:15 AM} \\
\hline 07:15 AM & 8 & 0 & 4 & 2 & 14 & 69 & 1 & 49 & 2 & 121 & 47 & 484 & 5 & 1 & 537 & 6 & 286 & 46 & 39 & 377 & 1049 \\
\hline 07:30 AM & 10 & 0 & 10 & 1 & 21 & 109 & 2 & 54 & 0 & 165 & 41 & 571 & 5 & 2 & 619 & 5 & 375 & 50 & 29 & 459 & 1264 \\
\hline 07:45 AM & 6 & 2 & 24 & 0 & 32 & 87 & 2 & 57 & 0 & 146 & 37 & 503 & 8 & 1 & 549 & 18 & 360 & 105 & 55 & 538 & 1265 \\
\hline 08:00 AM & 9 & 0 & 22 & 0 & 31 & 90 & 0 & 33 & 1 & 124 & 11 & 560 & 8 & 0 & 579 & 29 & 308 & 15 & 16 & 368 & 1102 \\
\hline Total Volume & 33 & 2 & 60 & 3 & 98 & 355 & 5 & 193 & 3 & 556 & 136 & 2118 & 26 & 4 & 2284 & 58 & 1329 & 216 & 139 & 1742 & 4680 \\
\hline \% App. Total & 33.7 & 2 & 61.2 & 3.1 & & 63.8 & 0.9 & 34.7 & 0.5 & & 6 & 92.7 & 1.1 & 0.2 & & 3.3 & 76.3 & 12.4 & 8 & & \\
\hline PHF & . 825 & . 250 & . 625 & . 375 & . 766 & . 814 & . 625 & . 846 & . 375 & . 842 & . 723 & . 927 & . 813 & . 500 & . 922 & . 500 & . 886 & . 514 & . 632 & . 809 & . 925 \\
\hline
\end{tabular}


Manual Traffic Count - All Traffic Forest Hill Blvd \& Polo Club/Royal Fern Wellington, FL

File Name : FOPO
Site Code : SW2228
Start Date : 10/18/2022
Page No : 3
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline & \multicolumn{5}{|c|}{Polo Club Rd
NB} & \multicolumn{5}{|c|}{\[
\begin{gathered}
\text { Royal Fern Dr } \\
\text { SB } \\
\hline
\end{gathered}
\]} & \multicolumn{5}{|c|}{\(\underset{E B}{\text { Forest Hill Blvd }}\)} & \multicolumn{5}{|c|}{Forest Hill Blvd} & \\
\hline Start Time & Left & Thru & Right & Peds & cen Traal & Left & Thru & Right & Peds & Apeatan & Left & Thru & Right & UTum & Anat Tear & Left & Thru & Right & UTum & Amp & nt Toal \\
\hline \multicolumn{22}{|l|}{Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1} \\
\hline \multicolumn{22}{|l|}{Peak Hour for Entire Intersection Begins at 04:30 PM} \\
\hline 04:30 PM & 9 & 0 & 31 & 0 & 40 & 38 & 0 & 11 & 0 & 49 & 10 & 488 & 12 & 0 & 510 & 21 & 510 & 14 & 9 & 554 & 1153 \\
\hline 04:45 PM & 9 & 2 & 27 & 1 & 39 & 45 & 0 & 14 & 0 & 59 & 15 & 457 & 6 & 0 & 478 & 15 & 434 & 21 & 10 & 480 & 1056 \\
\hline 05:00 PM & 9 & 0 & 18 & 0 & 27 & 42 & 1 & 20 & 1 & 64 & 18 & 512 & 12 & 0 & 542 & 21 & 532 & 7 & 9 & 569 & 1202 \\
\hline 05:15 PM & 6 & 0 & 19 & 0 & 25 & 45 & 1 & 20 & 1 & 67 & 15 & 421 & 9 & 0 & 445 & 15 & 547 & 18 & 7 & 587 & 1124 \\
\hline Total Volume & 33 & 2 & 95 & 1 & 131 & 170 & 2 & 65 & 2 & 239 & 58 & 1878 & 39 & 0 & 1975 & 72 & 2023 & 60 & 35 & 2190 & 4535 \\
\hline \% App. Total & 25.2 & 1.5 & 72.5 & 0.8 & & 71.1 & 0.8 & 27.2 & 0.8 & & 2.9 & 95.1 & 2 & 0 & & 3.3 & 92.4 & 2.7 & 1.6 & & \\
\hline PHF & . 917 & . 250 & . 766 & . 250 & . 819 & . 944 & . 500 & . 813 & . 500 & . 892 & . 806 & . 917 & . 813 & . 000 & . 911 & . 857 & . 925 & . 714 & . 875 & . 933 & . 943 \\
\hline
\end{tabular}


33380 : 2570 - Forest Hill Bl and Polo Club Rd (Standard File)
Phase [1.1.1]
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline & 1
(EL) & \[
\begin{gathered}
2 \\
(\mathbf{W T})
\end{gathered}
\] & \[
\begin{gathered}
3 \\
(\mathrm{SR})
\end{gathered}
\] & \[
\begin{gathered}
4 \\
(\mathrm{NR})
\end{gathered}
\] & \[
\begin{gathered}
5 \\
(W L)
\end{gathered}
\] & \[
\begin{gathered}
6 \\
(\mathrm{ET})
\end{gathered}
\] & 7 & 8 & 9 & 10 & 11 & 12 & 13 & 14 & 15 & 16 \\
\hline Walk & 0 & 7 & 7 & 0 & 0 & 7 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\
\hline Ped Clearance & 0 & 23 & 30 & 0 & 0 & 25 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\
\hline Min Green & 4 & 20 & 6 & 6 & 4 & 20 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\
\hline Passage & 2 & 4 & 2 & 2 & 2 & 4 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\
\hline Max1 & 25 & 45 & 35 & 25 & 30 & 45 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\
\hline Max2 & 5 & 45 & 8 & 8 & 5 & 45 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\
\hline Yellow & 5 & 5 & 4 & 4 & 5 & 5 & 4 & 4 & 3.5 & 3.5 & 3.5 & 3.5 & 3.5 & 3.5 & 3.5 & 3.5 \\
\hline Red & 2 & 2 & 2.5 & 2.5 & 2 & 2 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\
\hline
\end{tabular}

Phase Option [1.1.2]
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline & \[
\begin{gathered}
1 \\
(E L)
\end{gathered}
\] & \[
\begin{gathered}
2 \\
(\mathbf{W T})
\end{gathered}
\] & \[
\begin{gathered}
3 \\
(\mathrm{SR})
\end{gathered}
\] & \[
\begin{gathered}
4 \\
(\mathrm{NR})
\end{gathered}
\] & \[
\begin{gathered}
5 \\
(\mathrm{WL})
\end{gathered}
\] & \[
\begin{gathered}
6 \\
(E T)
\end{gathered}
\] & 7 & 8 & 9 & 10 & 11 & 12 & 13 & 14 & 15 & 16 \\
\hline Enable & ON & ON & ON & ON & ON & ON & & & & & & & & & & \\
\hline Auto Entry & & & ON & & & & & & & & & & & & & \\
\hline Auto Exit & & ON & & & & ON & & & & & & & & & & \\
\hline Non Actl & & & & & & & & & & & & & & & & \\
\hline Non Act2 & & & & & & & & & & & & & & & & \\
\hline Lock Call & & ON & & & & ON & & & & & & & & & & \\
\hline Min Recall & & ON & & & & ON & & & & & & & & & & \\
\hline Max Recall & ON & ON & ON & ON & ON & ON & & & & & & & & & & \\
\hline Ped Recall & & & & & & & & & & & & & & & & \\
\hline Dual Entry & & ON & & & & ON & & & & & & & & & & \\
\hline Sim Gap Enable & & & & & & & & & & & & & & & & \\
\hline Rest In Walk & & & & & & & & & & & & & & & & \\
\hline
\end{tabular}

Detector, Vehicle Parameters 1-16 [5.1]
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline & \[
\begin{gathered}
1 \\
\text { (EL1) } \\
\hline
\end{gathered}
\] & \[
\begin{gathered}
2 \\
\text { (WT1) }
\end{gathered}
\] & \[
\begin{gathered}
3 \\
(\mathrm{ST} 1) \\
\hline
\end{gathered}
\] & \[
\begin{gathered}
4 \\
\text { (NT1) } \\
\hline
\end{gathered}
\] & \[
\begin{gathered}
5 \\
\text { (WL1) } \\
\hline
\end{gathered}
\] & \[
\begin{gathered}
6 \\
(\text { ET1) } \\
\hline
\end{gathered}
\] & 7 & 8 & 9 & 10 & 11 & 12 & 13 & 14 & 15 & 16 \\
\hline Call Phase & 1 & 2 & 2 & 2 & 3 & 3 & 3 & 5 & 6 & 6 & 6 & 0 & 4 & 4 & 0 & 0 \\
\hline Switch Phase & 6 & 0 & 0 & 0 & 0 & 0 & 0 & 2 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\
\hline Delay Time & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & - & 0 & 0 \\
\hline
\end{tabular}

Detector, Vehicle Parameters 17-32 [5.1]
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline & 17 & 18 & 19 & 20 & 21 & 22 & 23 & 24 & 25 & 26 & 27 & 28 & 29 & 30 & 31 & 32 \\
\hline Call Phase & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\
\hline Switch Phase & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\
\hline Delay Time & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\
\hline
\end{tabular}

Detector, Vehicle Parameters 33-48 [5.1]
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline & 33 & 34 & 35 & 36 & 37 & 38 & 39 & 40 & 41 & 42 & 43 & 44 & 45 & 46 & 47 & 48 \\
\hline Call Phase & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\
\hline Switch Phase & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\
\hline Delay Time & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\
\hline
\end{tabular}

Detector, Vehicle Parameters 49-64 [5.1]
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline & 49 & 50 & 51 & 52 & 53 & 54 & 55 & 56 & 57 & 58 & 59 & 60 & 61 & 62 & 63 & 64 \\
\hline Call Phase & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\
\hline Switch Phase & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\
\hline Delay Time & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\
\hline
\end{tabular}
\(\qquad\)

\section*{Palm Beach County}

System Timing Sheet
10/12/2022
33380 : 2570 - Forest Hill Bl and Polo Club Rd ( Standard File )
TB Coor, Day Plan[4.4]
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline Day Plan Table 1 & 1 & 2 & 3 & 4 & 5 & 6 & 7 & 8 & 9 & 10 & 11 & 12 & 13 & 14 & 15 & 16 \\
\hline Hour & & 6 & 7 & 8 & 9 & 13 & 14 & 15 & 19 & 21 & & & & & & \\
\hline Minute & & & 40 & 10 & & 45 & 25 & 30 & & & & & & & & \\
\hline Action & 21 & 2 & 8 & 2 & 1 & 7 & 1 & 3 & 1 & 21 & & & & & & \\
\hline
\end{tabular}
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline Day Plan Table 2 & 1 & 2 & 3 & 4 & 5 & 6 & 7 & 8 & 9 & 10 & 11 & 12 & 13 & 14 & 15 & 16 \\
\hline Hour & & 9 & 14 & 20 & & & & & & & & & & & & \\
\hline Minute & & & & & & & & & & & & & & & & \\
\hline Action & 21 & 5 & 4 & 21 & & & & & & & & & & & & \\
\hline
\end{tabular}
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline Day Plan Table 3 & 1 & 2 & 3 & 4 & 5 & 6 & 7 & 8 & 9 & 10 & 11 & 12 & 13 & 14 & 15 & 16 \\
\hline Hour & & 10 & 14 & 18 & & & & & & & & & & & & \\
\hline Minute & & 30 & & 30 & & & & & & & & & & & & \\
\hline Action & 21 & 5 & 4 & 21 & & & & & & & & & & & & \\
\hline
\end{tabular}

Coordination, Pattern 1-16 [2.1]/Coordination, Alt Tables+[2.6]
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline Pattern & 1 & 2 & 3 & 4 & 5 & 6 & 7 & 8 & 9 & 10 & 11 & 12 & 13 & 14 & 15 & 16 \\
\hline Cycle Time & 140 & 160 & 160 & 160 & 160 & & 140 & 160 & & & 160 & 200 & 200 & & & \\
\hline Offset Time & 12 & 65 & 50 & 15 & 15 & & 12 & 65 & & & 70 & 30 & 60 & & & \\
\hline Split Number & 1 & 2 & 3 & 4 & 5 & 6 & 7 & 8 & 9 & 10 & 11 & 12 & 13 & 14 & 15 & 16 \\
\hline Seq Number & 1 & 1 & 1 & 9 & 9 & 1 & 1 & 1 & 1 & 1 & 9 & 9 & 9 & 1 & 1 & 1 \\
\hline Ph Opt Alt & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\
\hline Ph Time Alt & 1 & 2 & 3 & 5 & 4 & 0 & 3 & 2 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\
\hline
\end{tabular}

Coordination, Splits [2.7.1]
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline Split Table 1 & 1 & 2 & 3 & 4 & 5 & 6 & 7 & 8 & 9 & 10 & 11 & 12 & 13 & 14 & 15 & 16 \\
\hline Time & 20 & 82 & 21 & 17 & 20 & 82 & & 38 & & & & & & & & \\
\hline Mode & NON & MAX & NON & NON & NON & MAX & NON & NON & NON & NON & NON & NON & NON & NON & NON & NON \\
\hline Coord-Ph & & ON & & & & & & & & & & & & & & \\
\hline
\end{tabular}
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline Split Table 2 & 1 & 2 & 3 & 4 & 5 & 6 & 7 & 8 & 9 & 10 & 11 & 12 & 13 & 14 & 15 & 16 \\
\hline Time & 25 & 88 & 28 & 19 & 21 & 92 & & 47 & & & & & & & & \\
\hline Mode & NON & MAX & NON & NON & NON & MAX & NON & NON & NON & NON & NON & NON & NON & NON & NON & NON \\
\hline Coord-Ph & & ON & & & & & & & & & & & & & & \\
\hline
\end{tabular}
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline Split Table 3 & 1 & 2 & 3 & 4 & 5 & 6 & 7 & 8 & 9 & 10 & 11 & 12 & 13 & 14 & 15 & 16 \\
\hline Time & 18 & 96 & 28 & 18 & 27 & 87 & & 46 & & & & & & & & \\
\hline Mode & NON & MAX & NON & NON & NON & MAX & NON & NON & NON & NON & NON & NON & NON & NON & NON & NON \\
\hline Coord-Ph & & ON & & & & & & & & & & & & & & \\
\hline
\end{tabular}
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline Split Table 4 & 1 & 2 & 3 & 4 & 5 & 6 & 7 & 8 & 9 & 10 & 11 & 12 & 13 & 14 & 15 & 16 \\
\hline Time & 17 & 81 & 44 & 18 & 19 & 79 & & 62 & & & & & & & & \\
\hline Mode & NON & MAX & NON & NON & NON & MAX & NON & NON & NON & NON & NON & NON & NON & NON & NON & NON \\
\hline Coord-Ph & & ON & & & & & & & & & & & & & & \\
\hline
\end{tabular}
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline Split Table 5 & 1 & 2 & 3 & 4 & 5 & 6 & 7 & 8 & 9 & 10 & 11 & 12 & 13 & 14 & 15 & 16 \\
\hline Time & 17 & 79 & 44 & 20 & 23 & 73 & & 64 & & & & & & & & \\
\hline Mode & NON & MAX & NON & NON & NON & MAX & NON & NON & NON & NON & NON & NON & NON & NON & NON & NON \\
\hline Coord-Ph & & ON & & & & & & & & & & & & & & \\
\hline
\end{tabular}
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline Split Table 6 & 1 & 2 & 3 & 4 & 5 & 6 & 7 & 8 & 9 & 10 & 11 & 12 & 13 & 14 & 15 & 16 \\
\hline Time & 20 & 39 & 24 & 17 & 20 & 39 & & 41 & & & & & & & & \\
\hline Mode & NON & MAX & NON & NON & NON & MAX & NON & NON & NON & NON & NON & NON & NON & NON & NON & NON \\
\hline Coord-Pb & & ON & & & & & & & & & & & & & & \\
\hline
\end{tabular}

Approved By: Ron Tibbetts
Date: \(\qquad\)

33380: 2570 - Forest Hill B1 and Polo Club Rd (Standard File )

Preemption
Times[3.1]/Phases[3.2]/Options[3.3]
\begin{tabular}{|c|c|c|c|c|c|c|}
\hline Channel & 1 & 2 & 3 & 4 & 5 & 6 \\
\hline Lock Input & ON & ON & ON & ON & ON & ON \\
\hline Override Flash & & & & & & \\
\hline Override Higher & & & & & & \\
\hline Flash Dwell & & & & & & \\
\hline Link & & & & & & \\
\hline Delay & & & & & & \\
\hline Min Duration & & & & & & \\
\hline Min Green & & & 5 & 5 & 5 & 5 \\
\hline Min Walk & & & 4 & 4 & 4 & 4 \\
\hline Ped Clear & & & 22 & 22 & 22 & 22 \\
\hline Track Green & & & & & & \\
\hline Min Dwell & & & 10 & 10 & 10 & 10 \\
\hline Max Presence & & & 120 & 120 & 120 & 120 \\
\hline Track R1 & & & & & & \\
\hline Track R2 & & & & & & \\
\hline Track R3 & & & & & & \\
\hline Track R4 & & & & & & \\
\hline Dwell P1 & & & 2 & 2 & 3 & 4 \\
\hline Dwell P2 & & & 6 & 6 & & \\
\hline Dwell P3 & & & & & & \\
\hline Dwell P4 & & & & & & \\
\hline Dwell P5 & & & & & & \\
\hline Dwell P6 & & & & & & \\
\hline Dwell P7 & & & & & & \\
\hline Dwell P8 & & & & & & \\
\hline Dwell P9 & & & & & & \\
\hline Dwell P10 & & & & & & \\
\hline Dwell P11 & & & & & & \\
\hline Dwell P12 & & & & & & \\
\hline Dwell Pedl & & & & & & \\
\hline Dwell Ped2 & & & & & & \\
\hline Dwell Ped3 & & & & & & \\
\hline Dwell Ped4 & & & & & & \\
\hline Dwell Ped5 & & & & & & \\
\hline Dwell Ped6 & & & & & & \\
\hline Dwell Ped7 & & & & & & \\
\hline Dwell Ped8 & & & & & & \\
\hline Exit R1 & & & 2 & 2 & 2 & 2 \\
\hline Exit R2 & & & 6 & 6 & 6 & 6 \\
\hline Exit R3 & & & & & & \\
\hline Exit R4 & & & & & & \\
\hline
\end{tabular}

Preemption Times+[3.4]/Overlaps+[3.5]/Options+ [3.6]
\begin{tabular}{|c|c|c|c|c|c|c|}
\hline Preempt & 1 & 2 & 3 & 4 & 5 & 6 \\
\hline Enable & & & ON & ON & ON & ON \\
\hline Type & EMERG & EMERG & EMERG & EMERG & EMERG & EMERG \\
\hline Skip Track & & & & & & \\
\hline Volt Mon Flash & & & & & & \\
\hline Coord in Preempt & & & & & & \\
\hline Max2 & & & & & & \\
\hline Return Max/Min & MAX & MAX & MAX & MAX & MAX & MAX \\
\hline Extend Dwell & & & & & & \\
\hline Pattern & & & & & & \\
\hline Output Mode & TS2 & TS2 & TS2 & TS2 & TS2 & TS2 \\
\hline Track Over 1 & & & & & & \\
\hline Track Over 2 & & & & & & \\
\hline Track Over 3 & & & & & & \\
\hline Track Over 4 & & & & & & \\
\hline Track Over 5 & & & & & & \\
\hline Track Over 6 & & & & & & \\
\hline Track Over 7 & & & & & & \\
\hline Track Over 8 & & & & & & \\
\hline Track Over 9 & & & & & & \\
\hline Track Over 10 & & & & & & \\
\hline Track Over 11 & & & & & & \\
\hline Track Over 12 & & & & & & \\
\hline Dwell Over 1 & & & & & & \\
\hline Dwell Over 2 & & & & & & \\
\hline Dwell Over 3 & & & & & & \\
\hline Dwell Over 4 & & & & & & \\
\hline Dwell Over 5 & & & & & & \\
\hline Dwell Over 6 & & & & & & \\
\hline Dwell Over 7 & & & & & & \\
\hline Dwell Over 8 & & & & & & \\
\hline Dwell Over 9 & & & & & & \\
\hline Dwell Over 10 & & & & & & \\
\hline Dwell Over 11 & & & & & & \\
\hline Dwell Over 12 & & & & & & \\
\hline Ped Clear & & & & & & \\
\hline Yellow & & & & & & \\
\hline Red & & & & & & \\
\hline Return Min/Max & & & & & & \\
\hline Delay Inh & & & & & & \\
\hline Exit Time & & & & & & \\
\hline All Red B4 & & & & & & \\
\hline
\end{tabular}

Overlap Program Parameters [1.5.2.1]
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline Overlap & \multicolumn{8}{|c|}{Included Phases} & \multicolumn{8}{|c|}{Modifer Phases} & Type & Green & Yellow & Red \\
\hline Overlap I & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & NORMAL & 0 & 3.5 & 1.5 \\
\hline Overlap 2 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & NORMAL & 0 & 3.5 & 1.5 \\
\hline Overlap 3 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & NORMAL & 0 & 3.5 & 1.5 \\
\hline Overlap 4 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & NORMAL & 0 & 3.5 & 1.5 \\
\hline Overlap 5 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & NORMAL & 0 & 3.5 & 1.5 \\
\hline Overlap 6 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & NORMAL & 0 & 3.5 & 1.5 \\
\hline Overlap 7 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & NORMAL & 0 & 3.5 & 1.5 \\
\hline Overlap 8 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & NORMAL & 0 & 3.5 & 1.5 \\
\hline Overlap 9 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & NORMAL & 0 & 3.5 & 1.5 \\
\hline Overlap 10 & 3 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & NORMAL & 0 & 3.5 & 1.5 \\
\hline Overlap 11 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & NORMAL & 0 & 3.5 & 1.5 \\
\hline Overlap 12 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & NORMAL & 0 & 3.5 & 1.5 \\
\hline Overlap 13 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & NORMAL & 0 & 3.5 & 1.5 \\
\hline Overlap 14 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & NORMAL & 0 & 3.5 & 1.5 \\
\hline Overlap 15 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & NORMAL & 0 & 3.5 & 1.5 \\
\hline Overlap 16 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & NORMAL & 0 & 3.5 & 1.5 \\
\hline
\end{tabular}

\section*{Date:}
\(\qquad\)

33380 : 2570 - Forest Hill Bl and Polo Club Rd (Standard File )

Alternate Phase Program 1, Interval Times
[1.1.6.1]
Phase|Walk| Ped | Min |Passage|Max1|Max2|Yellow| Red |Assign| Bike

Alternate Phase Programx 2, Interval Times
[1.1.6.1]

\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|} 
& & & Clear Green & & & & & Clear & Ph & Clear \\
\hline 1 & 0 & 0 & 4 & 2 & 17 & 0 & 5 & 2 & 1 & 0 \\
\hline 2 & 7 & 23 & 20 & 4 & 79 & 0 & 5 & 2 & 2 & 0 \\
\hline 3 & 7 & 30 & 6 & 2 & 18 & 0 & 4 & 2.5 & 3 & 0 \\
\hline 4 & 0 & 0 & 6 & 2 & 14 & 0 & 4 & 2.5 & 4 & 0 \\
\hline 5 & 0 & 0 & 4 & 2 & 17 & 0 & 5 & 2 & 5 & 0 \\
\hline 6 & 7 & 25 & 20 & 4 & 79 & 0 & 5 & 2 & 6 & 0 \\
\hline 7 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\
\hline 8 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\
\hline
\end{tabular}

\section*{Alternate Phase Program 3, Interval Times}
[1.1.6.1]
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline Phase & Walk & \begin{tabular}{c} 
Ped \\
Clear
\end{tabular} & \begin{tabular}{c} 
Min \\
Green
\end{tabular} & Passage & Max1 & Max2 & Yellow & \begin{tabular}{c} 
Red \\
Clear
\end{tabular} & \begin{tabular}{c} 
Assign \\
Ph
\end{tabular} & \begin{tabular}{c} 
Bike \\
Clear
\end{tabular} \\
\hline 1 & 0 & 0 & 4 & 2 & 15 & 0 & 5 & 2 & 1 & 0 \\
\hline 2 & 7 & 23 & 20 & 4 & 93 & 0 & 5 & 2 & 2 & 0 \\
\hline 3 & 7 & 30 & 6 & 2 & 25 & 0 & 4 & 2. & 3 & 0 \\
\hline 4 & 0 & 0 & 6 & 2 & 15 & 0 & 4 & 2.5 & 4 & 0 \\
\hline 5 & 0 & 0 & 4 & 2 & 24 & 0 & 5 & 2 & 5 & 0 \\
\hline 6 & 7 & 25 & 20 & 4 & 84 & 0 & 5 & 2 & 6 & 0 \\
\hline 7 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\
\hline 8 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\
\hline
\end{tabular}
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|} 
& & Clear & Green & & & & & Clear & Ph & Clear \\
\hline 1 & 0 & 0 & 4 & 2 & 25 & 0 & 5 & 2 & 1 & 0 \\
\hline 2 & 7 & 23 & 20 & 4 & 85 & 0 & 5 & 2 & 2 & 0 \\
\hline 3 & 7 & 30 & 6 & 2 & 25 & 0 & 4 & 2.5 & 3 & 0 \\
\hline 4 & 0 & 0 & 6 & 2 & 16 & 0 & 4 & 2.5 & 4 & 0 \\
\hline 5 & 0 & 0 & 4 & 2 & 21 & 0 & 5 & 2 & 5 & 0 \\
\hline 6 & 7 & 25 & 20 & 4 & 89 & 0 & 5 & 2 & 6 & 0 \\
\hline 7 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\
\hline 8 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\
\hline
\end{tabular}

Alternate Phase Program 4, Interval Times
[1.1.6.1]
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|}
\hline Phase & Walk & \begin{tabular}{c} 
Ped \\
Clear
\end{tabular} & \begin{tabular}{c} 
Min \\
Green
\end{tabular} & Passage & Max1 & Max2 & Yellow & \begin{tabular}{c} 
Red \\
Clear
\end{tabular} & \begin{tabular}{c} 
Assign \\
Ph
\end{tabular} & \begin{tabular}{c} 
Bike \\
Clear
\end{tabular} \\
\hline 1 & 0 & 0 & 4 & 2 & 14 & 0 & 5 & 2 & 1 & 0 \\
\hline 2 & 7 & 23 & 20 & 4 & 78 & 0 & 5 & 2 & 2 & 0 \\
\hline 3 & 7 & 30 & 6 & 2 & 20 & 0 & 4 & 2.5 & 3 & 0 \\
\hline 4 & 0 & 0 & 6 & 2 & 15 & 0 & 4 & 2.5 & 4 & 0 \\
\hline 5 & 0 & 0 & 4 & 2 & 16 & 0 & 5 & 2 & 5 & 0 \\
\hline 6 & 7 & 25 & 20 & 4 & 76 & 0 & 5 & 2 & 6 & 0 \\
\hline 7 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\
\hline 8 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\
\hline
\end{tabular}

Alternate Phase Program 5, Interval Times
[1.1.6.1]
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|}
\hline Phase & Walk & \begin{tabular}{c} 
Ped \\
Clear
\end{tabular} & \begin{tabular}{c} 
Min \\
Green
\end{tabular} & Passage & Max1 & Max2 & Yellow & \begin{tabular}{c} 
Red \\
Clear
\end{tabular} & \begin{tabular}{c} 
Assign \\
Ph
\end{tabular} & \begin{tabular}{c} 
Bike \\
Clear
\end{tabular} \\
\hline 1 & 0 & 0 & 4 & 2 & 14 & 0 & 5 & 2 & 1 & 0 \\
\hline 2 & 7 & 23 & 20 & 4 & 76 & 0 & 5 & 2 & 2 & 0 \\
\hline 3 & 7 & 30 & 6 & 2 & 20 & 0 & 4 & 2.5 & 3 & 0 \\
\hline 4 & 0 & 0 & 6 & 2 & 17 & 0 & 4 & 2.5 & 4 & 0 \\
\hline 5 & 0 & 0 & 4 & 2 & 20 & 0 & 5 & 2 & 5 & 0 \\
\hline 6 & 7 & 25 & 20 & 4 & 70 & 0 & 5 & 2 & 6 & 0 \\
\hline 7 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\
\hline 8 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\
\hline
\end{tabular}

\section*{TB Coor, Day Plan [4.4]}
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline Day Plan Table 4 & 1 & 2 & 3 & 4 & 5 & 6 & 7 & 8 & 9 & 10 & 11 & 12 & 13 & 14 & 15 & 16 \\
\hline Hour & & 6 & 9 & 12 & 18 & & & & & & & & & & & \\
\hline Minute & & 30 & & & & & & & & & & & & & & \\
\hline Action & 100 & 4 & 5 & 6 & 4 & & & & & & & & & & & \\
\hline
\end{tabular}
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline Day Plan Table 5 & 1 & 2 & 3 & 4 & 5 & 6 & 7 & 8 & 9 & 10 & 11 & 12 & 13 & 14 & 15 & 16 \\
\hline Hour & & 9 & 12 & 22 & & & & & & & & & & & & \\
\hline Minute & & & & & & & & & & & & & & & & \\
\hline Action & 100 & 4 & 5 & 4 & & & & & & & & & & & & \\
\hline
\end{tabular}
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline Day Plan Table 6 & 1 & 2 & 3 & 4 & 5 & 6 & 7 & 8 & 9 & 10 & 11 & 12 & 13 & 14 & 15 & 16 \\
\hline Hour & & & & & & & & & & & & & & & & \\
\hline Minute & & & & & & & & & & & & & & & & \\
\hline Action & & & & & & & & & & & & & & & & \\
\hline
\end{tabular}

Approved By: Ron Tibbetts

Palm Beach County
Special System Timing Sheet
10/12/2022
33380 : 2570 - Forest Hill B1 and Polo Club Rd (Standard File )
Coordination, Splits [2.7.1]
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline Split Table 7 & 1 & 2 & 3 & 4 & 5 & 6 & 7 & 8 & 9 & 10 & 11 & 12 & 13 & 14 & 15 & 16 \\
\hline Time & 20 & 74 & 28 & 18 & 24 & 70 & & 46 & & & & & & & & \\
\hline Mode & NON & MAX & NON & NON & NON & NON & NON & NON & NON & NON & NON & NON & NON & NON & NON & NON \\
\hline Coord-Ph & & ON & & & & & & & & & & & & & & \\
\hline
\end{tabular}
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline Split Table 8 & 1 & 2 & 3 & 4 & 5 & 6 & 7 & 8 & 9 & 10 & 11 & 12 & 13 & 14 & 15 & 16 \\
\hline Time & 25 & 75 & 42 & 18 & 24 & 76 & & 60 & & & & & & & & \\
\hline Mode & NON & MAX & NON & NON & NON & MAX & NON & NON & NON & NON & NON & NON & NON & NON & NON & NON \\
\hline Coord-Ph & & ON & & & & & & & & & & & & & & \\
\hline
\end{tabular}
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline Split Table 9 & 1 & 2 & 3 & 4 & 5 & 6 & 7 & 8 & 9 & 10 & 11 & 12 & 13 & 14 & 15 & 16 \\
\hline Time & & & & & & & & & & & & & & & & \\
\hline Mode & NON & MAX & NON & NON & NON & MAX & NON & NON & NON & NON & NON & NON & NON & NON & NON & NON \\
\hline Coord-Ph & & ON & & & & & & & & & & & & & & \\
\hline
\end{tabular}
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline Split Table 10 & 1 & 2 & 3 & 4 & 5 & 6 & 7 & 8 & 9 & 10 & 11 & 12 & 13 & 14 & 15 & 16 \\
\hline \multicolumn{17}{|l|}{Time} \\
\hline Mode & NON & NON & NON & NON & NON & NON & NON & NON & NON & NON & NON & NON & NON & NON & NON & NON \\
\hline Coord-Ph & & ON & & & & & & & & & & & & & & \\
\hline
\end{tabular}
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline Split Table 11 & 1 & 2 & 3 & 4 & 5 & 6 & 7 & 8 & 9 & 10 & 11 & 12 & 13 & 14 & 15 & 16 \\
\hline Time & 18 & 75 & 47 & 20 & 24 & 69 & & 67 & & & & & & & & \\
\hline Mode & NON & MAX & NON & NON & NON & MAX & NON & NON & NON & NON & NON & NON & NON & NON & NON & NON \\
\hline Coord-Ph & & ON & & & & & & & & & & & & & & \\
\hline
\end{tabular}
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline Split Table 12 & 1 & 2 & 3 & 4 & 5 & 6 & 7 & 8 & 9 & 10 & 11 & 12 & 13 & 14 & 15 & 16 \\
\hline Time & 20 & 113 & 47 & 20 & 24 & 109 & & 67 & & & & & & & & \\
\hline Mode & NON & MAX & NON & NON & NON & MAX & NON & NON & NON & NON & NON & NON & NON & NON & NON & NON \\
\hline Coord-Ph & & ON & & & & & & & & & & & & & & \\
\hline
\end{tabular}
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline Split Table 13 & 1 & 2 & 3 & 4 & 5 & 6 & 7 & 8 & 9 & 10 & 11 & 12 & 13 & 14 & 15 & 16 \\
\hline Time & 16 & 119 & 47 & 18 & 16 & 119 & & 65 & & & & & & & & \\
\hline Mode & NON & MAX & NON & NON & NON & MAX & NON & NON & NON & NON & NON & NON & NON & NON & NON & NON \\
\hline Coord-Pb & & ON & & & & & & & & & & & & & & \\
\hline
\end{tabular}
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline Split Table 14 & 1 & 2 & 3 & 4 & 5 & 6 & 7 & 8 & 9 & 10 & 11 & 12 & 13 & 14 & 15 & 16 \\
\hline Time & & & & & & & & & & & & & & & & \\
\hline Mode & NON & NON & NON & NON & NON & NON & NON & NON & NON & NON & NON & NON & NON & NON & NON & NON \\
\hline Coord-Ph & & ON & & & & & & & & & & & & & & \\
\hline
\end{tabular}
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline Split Table 15 & 1 & 2 & 3 & 4 & 5 & 6 & 7 & 8 & 9 & 10 & 11 & 12 & 13 & 14 & 15 & 16 \\
\hline Time & & & & & & & & & & & & & & & & \\
\hline Mode & NON & NON & NON & NON & NON & NON & NON & NON & NON & NON & NON & NON & NON & NON & NON & NON \\
\hline Coord-Ph & & ON & & & & & & & & & & & & & & \\
\hline
\end{tabular}
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline Split Table 16 & 1 & 2 & 3 & 4 & 5 & 6 & 7 & 8 & 9 & 10 & 11 & 12 & 13 & 14 & 15 & 16 \\
\hline \multicolumn{17}{|l|}{Time} \\
\hline Mode & NON & NON & NON & NON & NON & NON & NON & NON & NON & NON & NON & NON & NON & NON & NON & NON \\
\hline Coord-Ph & & ON & & & & & & & & & & & & & & \\
\hline
\end{tabular}

Approved By: Ron Tibbetts

\section*{Date:}
\(\qquad\)

\section*{HCS+"' DETAILED REPORT}
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline \multicolumn{7}{|l|}{General Information} & \multicolumn{8}{|l|}{Site Information} \\
\hline \multicolumn{6}{|l|}{\begin{tabular}{ll} 
Analyst & SW \\
Agency or Co. & Simmons \& White \\
Date Performed \(11 / 11 / 2022\) \\
Time Period & AM Peak - Existing Timings
\end{tabular}} & & \multicolumn{8}{|l|}{\begin{tabular}{ll} 
Intersection & Forest Hill + Polo Club \\
Area Type & All other areas \\
Jurisdiction & VOW \\
Analysis Year & 2026 - Background Volumes \\
Project ID & \(21-196\) Farrell West
\end{tabular}} \\
\hline \multicolumn{15}{|l|}{Volume and Timing Input} \\
\hline & & & & EB & & & WB & & & NB & & & SB & \\
\hline & & & LT & TH & RT & LT & TH & RT & LT & TH & RT & LT & TH & RT \\
\hline \multicolumn{3}{|l|}{Number of Lanes, N 11} & 1 & 3 & 0 & 1 & 3 & 1 & 1 & 1 & 0 & 2 & 1 & 0 \\
\hline \multicolumn{3}{|l|}{Lane Group} & L & TR & & L & T & \(R\) & L & TR & & L & TR & \\
\hline \multicolumn{3}{|l|}{Volume, V (vph)} & 150 & 2485 & 29 & 213 & 1585 & 232 & 37 & 2 & 69 & 380 & 5 & 207 \\
\hline \multicolumn{3}{|l|}{\% Heavy Vehicles, \%HV} & 2 & 2 & 2 & 2 & 2 & 2 & 2 & 2 & 2 & 2 & 2 & 2 \\
\hline \multicolumn{3}{|l|}{Peak-Hour Factor, PHF} & 0.95 & 0.95 & 0.95 & 0.95 & 0.95 & 0.95 & 0.95 & 0.95 & 0.95 & 0.95 & 0.95 & 0.95 \\
\hline \multicolumn{3}{|l|}{Pretimed (P) or Actuated (A)} & A & A & A & A & A & A & A & A & A & A & A & A \\
\hline \multicolumn{3}{|l|}{Start-up Lost Time, I1} & 2.0 & 2.0 & & 2.0 & 2.0 & 2.0 & 2.0 & 2.0 & & 2.0 & 2.0 & \\
\hline \multicolumn{3}{|l|}{Extension of Effective Green, e} & 2.0 & 2.0 & & 2.0 & 2.0 & 2.0 & 2.0 & 2.0 & & 2.0 & 2.0 & \\
\hline \multicolumn{3}{|l|}{Arrival Type, AT} & 3 & 3 & & 3 & 3 & 3 & 3 & 3 & & 3 & 3 & \\
\hline \multicolumn{3}{|l|}{Unit Extension, UE} & 3.0 & 3.0 & & 3.0 & 3.0 & 3.0 & 3.0 & 3.0 & & 3.0 & 3.0 & \\
\hline \multicolumn{3}{|l|}{Filtering/Metering, I} & 1.000 & 1.000 & & 1.000 & 1.000 & 1.000 & 1.000 & 1.000 & & 1.000 & 1.000 & \\
\hline \multicolumn{3}{|l|}{Initial Unmet Demand, Qb} & 0.0 & 0.0 & & 0.0 & 0.0 & 0.0 & 0.0 & 0.0 & & 0.0 & 0.0 & \\
\hline \multicolumn{3}{|l|}{Ped / Bike / RTOR Volumes} & 0 & 0 & 10 & 0 & 0 & 0 & 0 & 0 & 10 & 0 & 0 & 10 \\
\hline \multicolumn{3}{|l|}{Lane Width} & 12.0 & 12.0 & & 12.0 & 12.0 & 12.0 & 12.0 & 12.0 & & 12.0 & 12.0 & \\
\hline \multicolumn{3}{|l|}{Parking / Grade / Parking} & \(N\) & 0 & \(N\) & \(N\) & 0 & \(N\) & \(N\) & 0 & \(N\) & \(N\) & 0 & \(N\) \\
\hline \multicolumn{3}{|l|}{Parking Maneuvers, \(\mathrm{Nm}_{\mathrm{m}}\)} & & & & & & & & & & & & \\
\hline \multicolumn{3}{|l|}{Buses Stopping, NB} & 0 & 0 & & 0 & 0 & 0 & 0 & 0 & & 0 & 0 & \\
\hline \multicolumn{3}{|l|}{Min. Time for Pedestrians, \(\mathrm{Gp}_{\mathrm{p}}\)} & \multicolumn{3}{|c|}{3.2} & \multicolumn{3}{|c|}{3.2} & \multicolumn{3}{|c|}{3.2} & \multicolumn{3}{|c|}{3.2} \\
\hline Phasing & Excl. Left & \multicolumn{2}{|l|}{EB Only} & \multicolumn{2}{|l|}{EW Perm} & \multicolumn{2}{|l|}{04} & SB Only & \multicolumn{2}{|r|}{NB Only} & \multicolumn{2}{|r|}{07} & \multicolumn{2}{|c|}{08} \\
\hline \multirow[t]{2}{*}{Timing} & \(\mathrm{G}=14.0\) & \multicolumn{2}{|l|}{\(\mathrm{G}=4.0\)} & \multicolumn{2}{|l|}{\(\mathrm{G}=81.0\)} & \multicolumn{2}{|l|}{G =} & \(\mathrm{G}=21.5\) & \multicolumn{2}{|r|}{\(\mathrm{G}=12.5\)} & \multicolumn{2}{|l|}{G =} & \multicolumn{2}{|l|}{G =} \\
\hline & \(Y=7\) & \(\mathrm{Y}=\) & & \(\mathrm{Y}=\) & & \(Y=\) & & \(\mathrm{Y}=6.5\) & & = 6.5 & Y & & \(\mathrm{Y}=\) & \\
\hline \multicolumn{4}{|l|}{Duration of Analysis, \(\mathrm{T}=0.25\)} & & & & & & \multicolumn{6}{|c|}{Cycle Length, \(\mathrm{C}=160.0\)} \\
\hline
\end{tabular}

Lane Group Capacity, Control Delay, and LOS Determination


\section*{BACK-OF-QUEUE WORKSHEET}

\section*{General Information}

Project Description 21-196 Farrell West
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline \multicolumn{13}{|l|}{Average Back of Queue} \\
\hline & \multicolumn{3}{|c|}{EB} & \multicolumn{3}{|c|}{WB} & \multicolumn{3}{|c|}{NB} & \multicolumn{3}{|c|}{SB} \\
\hline & LT & TH & RT & LT & TH & RT & LT & TH & RT & LT & TH & RT \\
\hline Lane Group & \(L\) & TR & & \(L\) & \(T\) & \(R\) & \(L\) & TR & & \(L\) & TR & \\
\hline Initial Queue/Lane & 0.0 & 0.0 & & 0.0 & 0.0 & 0.0 & 0.0 & 0.0 & & 0.0 & 0.0 & \\
\hline Flow Rate/Lane Group & 158 & 2636 & & 224 & 1668 & 244 & 39 & 64 & & 400 & 212 & \\
\hline Satflow/Lane & 497 & 1860 & & 260 & 1862 & 1583 & 1770 & 1592 & & 1770 & 1590 & \\
\hline Capacity/Lane Group & 351 & 2692 & & 147 & 2569 & 1083 & 138 & 124 & & 462 & 214 & \\
\hline Flow Ratio & 0.3 & 0.5 & & 0.9 & 0.3 & 0.2 & 0.0 & 0.0 & & 0.1 & 0.1 & \\
\hline v/c Ratio & 0.45 & 0.98 & & 1.52 & 0.65 & 0.23 & 0.28 & 0.52 & & 0.87 & 0.99 & \\
\hline 1 Factor & 1.000 & 1.000 & & 1.000 & 1.000 & 1.000 & 1.000 & 1.000 & & 1.000 & 1.000 & \\
\hline Arrival Type & 3 & 3 & & 3 & 3 & 3 & 3 & 3 & & 3 & 3 & \\
\hline Platoon Ratio & 1.00 & 1.00 & & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & & 1.00 & 1.00 & \\
\hline PF Factor & 1.00 & 1.00 & & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & & 1.00 & 1.00 & \\
\hline Q1 & 2.2 & 42.0 & & 4.6 & 20.0 & 4.0 & 1.6 & 2.7 & & 8.9 & 9.4 & \\
\hline kB & 0.5 & 1.0 & & 0.3 & 0.9 & 1.0 & 0.3 & 0.3 & & 0.4 & 0.4 & \\
\hline Q2 & 0.4 & 9.6 & & 10.5 & 1.7 & 0.3 & 0.1 & 0.3 & & 1.8 & 3.1 & \\
\hline Q Average & 2.6 & 51.5 & & 15.1 & 21.7 & 4.3 & 1.8 & 3.0 & & 10.7 & 12.5 & \\
\hline
\end{tabular}

\section*{Percentile Back of Queue (95th percentile)}
\begin{tabular}{|l||l||l|l|l|l|l|l|l|l|l|l|}
\hline \(\mathrm{fB} \%\) & 2.0 & 1.5 & & 1.8 & 1.7 & 2.0 & 2.0 & 2.0 & & 1.8 & 1.8 \\
\hline Back of Queue & 5.3 & 79.1 & & 26.5 & 36.4 & 8.6 & 3.6 & 6.1 & & 19.7 & 22.5 \\
\hline
\end{tabular}

Queue Storage Ratio
\begin{tabular}{|l||l||l|l|l|l|l|l|l|l|l|l|l|}
\hline Queue Spacing & 25.0 & 25.0 & & 25.0 & 25.0 & 25.0 & 25.0 & 25.0 & & 25.0 & 25.0 & \\
\hline Queue Storage & 0 & 0 & & 0 & 0 & 0 & 0 & 0 & & 0 & 0 & \\
\hline Average Queue Storage Ratio & & & & & & & & & & & & \\
\hline \(95 \%\) Queue Storage Ratio & & & & & & & & & & & & \\
\hline
\end{tabular}

\section*{General Information}

Analyst SW
Agency or Co. Simmons \& White
Date Performed 11/11/2022
Time Period PM Peak - Existing Timings

Site Information
\begin{tabular}{|ll} 
Intersection & Forest Hill + Polo Club \\
Area Type & All other areas \\
Jurisdiction & VOW \\
Analysis Year & 2026 - Background Volumes \\
Project ID & \(21-196\) Farrell West
\end{tabular}

Volume and Timing Input


Lane Group Capacity, Control Delay, and LOS Determination


\section*{BACK-OF-QUEUE WORKSHEET}

\section*{General Information}

Project Description 21-196 Farrell West
Average Back of Queue


\section*{Percentile Back of Queue (95th percentile)}
\begin{tabular}{|l||l||l|l|l|l|l|l|l|l|l|l|}
\hline \(\mathrm{fB} \%\) & 2.1 & 1.6 & & 1.9 & 1.5 & 2.1 & 2.0 & 1.9 & & 2.0 & 2.0 \\
\hline Back of Queue & 2.0 & 57.3 & & 11.3 & 76.8 & 0.1 & 3.6 & 11.3 & & 8.4 & 5.6 \\
\hline
\end{tabular}

Queue Storage Ratio
\begin{tabular}{|l||l||l|l|l|l|l|l|l|l|l|l|l|}
\hline Queue Spacing & 25.0 & 25.0 & & 25.0 & 25.0 & 25.0 & 25.0 & 25.0 & & 25.0 & 25.0 & \\
\hline Queue Storage & 0 & 0 & & 0 & 0 & 0 & 0 & 0 & & 0 & 0 & \\
\hline Average Queue Storage Ratio & & & & & & & & & & & & \\
\hline \(95 \%\) Queue Storage Ratio & & & & & & & & & & & & \\
\hline
\end{tabular}

\section*{HCS \({ }^{\text {™ }}\) DETAILED REPORT}

\section*{General Information}

Analyst
SW
Agency or Co. Simmons \& White
Date Performed 11/11/2022
Time Period AM Peak

Site Information
\begin{tabular}{ll} 
Intersection & Forest Hill + Polo Club \\
Area Type & All other areas \\
Jurisdiction & VOW \\
Analysis Year & 2026 Background Vols \\
w/lmprovs \\
Project ID & \(21-196\) Farrell West - 2nd \\
WBL, 3rd SBL
\end{tabular}

Volume and Timing Input

\begin{tabular}{|l|l|l|l|l|l|l|l|c|}
\hline Phasing & Excl. Left & EB Only & EW Perm & \multicolumn{1}{c|}{04} & SB Only & NB Only & 07 & 08 \\
\hline \multirow{2}{*}{ Timing } & \(\mathrm{G}=10.0\) & \(\mathrm{G}=2.5\) & \(\mathrm{G}=81.0\) & \(\mathrm{G}=\) & \(\mathrm{G}=27.0\) & \(\mathrm{G}=12.5\) & \(\mathrm{G}=\) & \(\mathrm{G}=\) \\
\cline { 2 - 9 } & \(\mathrm{Y}=7\) & \(\mathrm{Y}=0\) & \(\mathrm{Y}=7\) & \(\mathrm{Y}=\) & \(\mathrm{Y}=6.5\) & \(\mathrm{Y}=6.5\) & \(\mathrm{Y}=\) & \(\mathrm{Y}=\) \\
\hline \multicolumn{7}{|l|}{ Duration of Analysis, \(\mathrm{T}=0.25\)} & \multicolumn{6}{|l|}{} \\
\hline
\end{tabular}

Lane Group Capacity, Control Delay, and LOS Determination


\section*{BACK-OF-QUEUE WORKSHEET}

\section*{General Information}

Project Description 21-196 Farrell West - 2nd WBL, 3rd SBL
Average Back of Queue
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline & \multicolumn{3}{|c|}{EB} & \multicolumn{3}{|c|}{WB} & \multicolumn{3}{|c|}{NB} & \multicolumn{3}{|c|}{SB} \\
\hline & LT & TH & RT & LT & TH & RT & LT & TH & RT & LT & TH & RT \\
\hline Lane Group & \(L\) & TR & & \(L\) & T & \(R\) & \(L\) & TR & & \(L\) & TR & \\
\hline Initial Queue/Lane & 0.0 & 0.0 & & 0.0 & 0.0 & 0.0 & 0.0 & 0.0 & & 0.0 & 0.0 & \\
\hline Flow Rate/Lane Group & 158 & 2636 & & 224 & 1668 & 244 & 39 & 64 & & 400 & 212 & \\
\hline Satflow/Lane & 432 & 1860 & & 1003 & 1862 & 1583 & 1770 & 1592 & & 1769 & 1590 & \\
\hline Capacity/Lane Group & 290 & 2645 & & 1047 & 2569 & 1138 & 138 & 124 & & 813 & 268 & \\
\hline Flow Ratio & 0.4 & 0.5 & & 0.1 & 0.3 & 0.2 & 0.0 & 0.0 & & 0.1 & 0.1 & \\
\hline v/c Ratio & 0.54 & 1.00 & & 0.21 & 0.65 & 0.21 & 0.28 & 0.52 & & 0.49 & 0.79 & \\
\hline I Factor & 1.000 & 1.000 & & 1.000 & 1.000 & 1.000 & 1.000 & 1.000 & & 1.000 & 1.000 & \\
\hline Arrival Type & 3 & 3 & & 3 & 3 & 3 & 3 & 3 & & 3 & 3 & \\
\hline Platoon Ratio & 1.00 & 1.00 & & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & & 1.00 & 1.00 & \\
\hline PF Factor & 1.00 & 1.00 & & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & & 1.00 & 1.00 & \\
\hline Q1 & 2.5 & 42.8 & & 2.4 & 20.0 & 3.6 & 1.6 & 2.7 & & 5.9 & 9.0 & \\
\hline kB & 0.4 & 1.0 & & 0.7 & 0.9 & 1.1 & 0.3 & 0.3 & & 0.5 & 0.4 & \\
\hline Q2 & 0.5 & 10.6 & & 0.2 & 1.7 & 0.3 & 0.1 & 0.3 & & 0.4 & 1.4 & \\
\hline Q Average & 3.0 & 53.4 & & 2.6 & 21.7 & 3.9 & 1.8 & 3.0 & & 6.3 & 10.4 & \\
\hline
\end{tabular}

\section*{Percentile Back of Queue (95th percentile)}
\begin{tabular}{|l||l||l|l|l|l|l|l|l|l|l|l|}
\hline \(\mathrm{fB} \%\) & 2.0 & 1.5 & & 2.0 & 1.7 & 2.0 & 2.0 & 2.0 & & 1.9 & 1.8 \\
\hline Back of Queue & 6.0 & 81.8 & & 5.2 & 36.4 & 7.7 & 3.6 & 6.1 & & 12.2 & 19.2 \\
\hline
\end{tabular}

Queue Storage Ratio
\begin{tabular}{|l||l||l|l|l|l|l|l|l|l|l|l|l|}
\hline Queue Spacing & 25.0 & 25.0 & & 25.0 & 25.0 & 25.0 & 25.0 & 25.0 & & 25.0 & 25.0 & \\
\hline Queue Storage & 0 & 0 & & 0 & 0 & 0 & 0 & 0 & & 0 & 0 & \\
\hline Average Queue Storage Ratio & & & & & & & & & & & & \\
\hline \(95 \%\) Queue Storage Ratio & & & & & & & & & & & & \\
\hline
\end{tabular}

\section*{General Information}

Analyst
SW
Agency or Co. Simmons \& White
Date Performed 11/11/2022
Time Period PM Peak

Volume and Timing Input
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline & & & \multicolumn{3}{|c|}{EB} & \multicolumn{3}{|c|}{WB} & \multicolumn{3}{|c|}{NB} & \multicolumn{3}{|c|}{SB} \\
\hline & & & LT & TH & RT & LT & TH & RT & LT & TH & RT & LT & TH & RT \\
\hline \multicolumn{3}{|l|}{Number of Lanes, N 1} & 1 & 3 & 0 & 2 & 3 & 1 & 1 & 1 & 0 & 3 & 1 & 0 \\
\hline \multicolumn{3}{|l|}{Lane Group} & L & TR & & L & T & \(R\) & L & TR & & L & TR & \\
\hline \multicolumn{3}{|l|}{Volume, V (vph)} & 62 & 2207 & 44 & 121 & 2379 & 64 & 37 & 2 & 106 & 182 & 2 & 70 \\
\hline \multicolumn{3}{|l|}{\% Heavy Vehicles, \%HV} & 2 & 2 & 2 & 2 & 2 & 2 & 2 & 2 & 2 & 2 & 2 & 2 \\
\hline \multicolumn{3}{|l|}{Peak-Hour Factor, PHF} & 0.95 & 0.95 & 0.95 & 0.95 & 0.95 & 0.95 & 0.95 & 0.95 & 0.95 & 0.95 & 0.95 & 0.95 \\
\hline \multicolumn{3}{|l|}{Pretimed (P) or Actuated (A)} & A & A & A & A & A & A & A & A & A & A & A & A \\
\hline \multicolumn{3}{|l|}{Start-up Lost Time, 11} & 2.0 & 2.0 & & 2.0 & 2.0 & 2.0 & 2.0 & 2.0 & & 2.0 & 2.0 & \\
\hline \multicolumn{3}{|l|}{Extension of Effective Green, e} & 2.0 & 2.0 & & 2.0 & 2.0 & 2.0 & 2.0 & 2.0 & & 2.0 & 2.0 & \\
\hline \multicolumn{3}{|l|}{Arrival Type, AT} & 3 & 3 & & 3 & 3 & 3 & 3 & 3 & & 3 & 3 & \\
\hline \multicolumn{3}{|l|}{Unit Extension, UE} & 3.0 & 3.0 & & 3.0 & 3.0 & 3.0 & 3.0 & 3.0 & & 3.0 & 3.0 & \\
\hline \multicolumn{3}{|l|}{Filtering/Metering, I} & 1.000 & 1.000 & & 1.000 & 1.000 & 1.000 & 1.000 & 1.000 & & 1.000 & 1.000 & \\
\hline \multicolumn{3}{|l|}{Initial Unmet Demand, Qb} & 0.0 & 0.0 & & 0.0 & 0.0 & 0.0 & 0.0 & 0.0 & & 0.0 & 0.0 & \\
\hline \multicolumn{3}{|l|}{Ped / Bike / RTOR Volumes} & 0 & 0 & 10 & 0 & 0 & 60 & 0 & 0 & 10 & 0 & 0 & 10 \\
\hline \multicolumn{3}{|l|}{Lane Width} & 12.0 & 12.0 & & 12.0 & 12.0 & 12.0 & 12.0 & 12.0 & & 12.0 & 12.0 & \\
\hline \multicolumn{3}{|l|}{Parking / Grade / Parking} & \(N\) & 0 & \(N\) & \(N\) & 0 & \(N\) & N & 0 & \(N\) & \(N\) & 0 & \(N\) \\
\hline \multicolumn{3}{|l|}{Parking Maneuvers, \(\mathrm{Nm}_{\mathrm{m}}\)} & & & & & & & & & & & & \\
\hline \multicolumn{3}{|l|}{Buses Stopping, NB} & 0 & 0 & & 0 & 0 & 0 & 0 & 0 & & 0 & 0 & \\
\hline \multicolumn{3}{|l|}{Min. Time for Pedestrians, Gp} & \multicolumn{3}{|c|}{3.2} & \multicolumn{3}{|c|}{3.2} & \multicolumn{3}{|c|}{3.2} & \multicolumn{3}{|c|}{3.2} \\
\hline Phasing & Excl. Left & \multicolumn{2}{|r|}{EB Only} & \multicolumn{2}{|l|}{EW Perm} & \multicolumn{2}{|l|}{04} & SB Only & \multicolumn{2}{|r|}{NB Only} & \multicolumn{2}{|r|}{07} & \multicolumn{2}{|c|}{08} \\
\hline \multirow[b]{2}{*}{Timing} & \(\mathrm{G}=10.0\) & \multicolumn{2}{|l|}{G \(=3.0\)} & \multicolumn{2}{|l|}{\(\mathrm{G}=80.0\)} & \multicolumn{2}{|l|}{G =} & \(\mathrm{G}=20.0\) & \multicolumn{2}{|r|}{\(\mathrm{G}=20.0\)} & \multicolumn{2}{|l|}{G =} & \multicolumn{2}{|l|}{G =} \\
\hline & \(\mathrm{Y}=7\) & \(Y=\) & 0 & \multicolumn{2}{|l|}{\multirow[t]{2}{*}{\(Y=7\)}} & \multirow[t]{2}{*}{\(\mathrm{Y}=\)} & & \(\mathrm{Y}=6.5\) & & \(=6.5\) & \(\mathrm{Y}=\) & & \(\mathrm{Y}=\) & \\
\hline \multicolumn{4}{|l|}{Duration of Analysis, \(\mathrm{T}=0.25\)} & & & & & & & ycle Leng & th, \(\mathrm{C}=\) & 160.0 & & \\
\hline
\end{tabular}

Lane Group Capacity, Control Delay, and LOS Determination


\section*{BACK-OF-QUEUE WORKSHEET}

\section*{General Information}

Project Description 21-196 Farrell West - 2nd WBL, 3rd SBL
Average Back of Queue


\section*{Percentile Back of Queue (95th percentile)}
\begin{tabular}{|l||l||l|l|l|l|l|l|l|l|l|l|}
\hline fB\% & 2.1 & 1.6 & & 2.1 & 1.5 & 2.1 & 2.0 & 2.0 & & 2.0 & 2.0 \\
\hline Back of Queue & 2.3 & 63.2 & & 3.0 & 76.8 & 0.1 & 3.3 & 9.2 & & 6.1 & 5.7 \\
\hline
\end{tabular}

Queue Storage Ratio
\begin{tabular}{|l||l||l|l|l|l|l|l|l|l|l|l|l|}
\hline Queue Spacing & 25.0 & 25.0 & & 25.0 & 25.0 & 25.0 & 25.0 & 25.0 & & 25.0 & 25.0 & \\
\hline Queue Storage & 0 & 0 & & 0 & 0 & 0 & 0 & 0 & & 0 & 0 & \\
\hline Average Queue Storage Ratio & & & & & & & & & & & & \\
\hline \(95 \%\) Queue Storage Ratio & & & & & & & & & & & & \\
\hline
\end{tabular}

\section*{HCS \({ }^{\text {™ }}\) DETAILED REPORT}
\begin{tabular}{ll} 
Intersection & Forest Hill + Polo Club \\
Area Type & All other areas \\
Jurisdiction & VOW \\
Analysis Year & \(2026 \mathrm{w} /\) Improvements \\
& \(21-196\) Farrell West \& 21- \\
Project ID & \begin{tabular}{l}
197 Farrell East - 2nd WBL, \\
\\
\\
3rd SBL
\end{tabular} \\
\hline
\end{tabular}

\section*{Volume and Timing Input}
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline \multirow[t]{2}{*}{} & \multicolumn{3}{|c|}{EB} & \multicolumn{3}{|c|}{WB} & \multicolumn{3}{|c|}{NB} & \multicolumn{3}{|c|}{SB} \\
\hline & LT & TH & RT & LT & TH & RT & LT & TH & RT & LT & TH & RT \\
\hline Number of Lanes, \(\mathrm{N}_{1}\) & 1 & 3 & 0 & 2 & 3 & 1 & 1 & 1 & 0 & 3 & 1 & 0 \\
\hline Lane Group & L & TR & & L & T & \(R\) & L & TR & & L & TR & \\
\hline Volume, V (vph) & 150 & 2485 & 31 & 217 & 1585 & 232 & 41 & 2 & 79 & 380 & 5 & 207 \\
\hline \% Heavy Vehicles, \%HV & 2 & 2 & 2 & 2 & 2 & 2 & 2 & 2 & 2 & 2 & 2 & 2 \\
\hline Peak-Hour Factor, PHF & 0.95 & 0.95 & 0.95 & 0.95 & 0.95 & 0.95 & 0.95 & 0.95 & 0.95 & 0.95 & 0.95 & 0.95 \\
\hline Pretimed (P) or Actuated (A) & A & A & A & A & A & A & A & A & A & A & A & A \\
\hline Start-up Lost Time, I1 & 2.0 & 2.0 & & 2.0 & 2.0 & 2.0 & 2.0 & 2.0 & & 2.0 & 2.0 & \\
\hline Extension of Effective Green, e & 2.0 & 2.0 & & 2.0 & 2.0 & 2.0 & 2.0 & 2.0 & & 2.0 & 2.0 & \\
\hline Arrival Type, AT & 3 & 3 & & 3 & 3 & 3 & 3 & 3 & & 3 & 3 & \\
\hline Unit Extension, UE & 3.0 & 3.0 & & 3.0 & 3.0 & 3.0 & 3.0 & 3.0 & & 3.0 & 3.0 & \\
\hline Filtering/Metering, I & 1.000 & 1.000 & & 1.000 & 1.000 & 1.000 & 1.000 & 1.000 & & 1.000 & 1.000 & \\
\hline Initial Unmet Demand, Qb & 0.0 & 0.0 & & 0.0 & 0.0 & 0.0 & 0.0 & 0.0 & & 0.0 & 0.0 & \\
\hline Ped / Bike / RTOR Volumes & 0 & 0 & 10 & 0 & 0 & 0 & 0 & 0 & 10 & 0 & 0 & 10 \\
\hline Lane Width & 12.0 & 12.0 & & 12.0 & 12.0 & 12.0 & 12.0 & 12.0 & & 12.0 & 12.0 & \\
\hline Parking / Grade / Parking & \(N\) & 0 & \(N\) & \(N\) & 0 & \(N\) & \(N\) & 0 & \(N\) & \(N\) & 0 & \(N\) \\
\hline Parking Maneuvers, Nm & & & & & & & & & & & & \\
\hline Buses Stopping, NB & 0 & 0 & & 0 & 0 & 0 & 0 & 0 & & 0 & 0 & \\
\hline Min. Time for Pedestrians, Gp & \multicolumn{3}{|c|}{3.2} & \multicolumn{3}{|c|}{3.2} & \multicolumn{3}{|c|}{3.2} & \multicolumn{3}{|c|}{3.2} \\
\hline
\end{tabular}
\begin{tabular}{|l|l|l|l|l|l|l|l|l|}
\hline \hline Phasing & Excl. Left & EB Only & EW Perm & \multicolumn{1}{|c|}{04} & SB Only & NB Only & 07 & 08 \\
\hline \multirow{2}{*}{ Timing } & \(\mathrm{G}=10.0\) & \(\mathrm{G}=2.5\) & \(\mathrm{G}=81.0\) & \(\mathrm{G}=\) & \(\mathrm{G}=27.0\) & \(\mathrm{G}=12.5\) & \(\mathrm{G}=\) & \(\mathrm{G}=\) \\
\cline { 2 - 9 } & \(\mathrm{Y}=7\) & \(\mathrm{Y}=0\) & \(\mathrm{Y}=7\) & \(\mathrm{Y}=7\) & \(\mathrm{Y}=6.5\) & \(\mathrm{Y}=6.5\) & \(\mathrm{Y}=\) & \(\mathrm{Y}=\) \\
\hline Duration of Analysis, \(\mathrm{T}=0.25\) & \multicolumn{5}{|c|}{ Cycle Length, \(\mathrm{C}=160.0\)} \\
\hline
\end{tabular}

\section*{Lane Group Capacity, Control Delay, and LOS Determination}
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline & \multicolumn{3}{|c|}{EB} & \multicolumn{3}{|c|}{WB} & \multicolumn{3}{|c|}{NB} & \multicolumn{3}{|c|}{SB} \\
\hline & LT & TH & RT & LT & TH & RT & LT & TH & RT & LT & TH & RT \\
\hline Adjusted Flow Rate, v & 158 & 2638 & & 228 & 1668 & 244 & 43 & 75 & & 400 & 212 & \\
\hline Lane Group Capacity, c & 290 & 2645 & & 1048 & 2569 & 1138 & 138 & 124 & & 813 & 268 & \\
\hline v/c Ratio, X & 0.54 & 1.00 & & 0.22 & 0.65 & 0.21 & 0.31 & 0.60 & & 0.49 & 0.79 & \\
\hline Total Green Ratio, g/C & 0.67 & 0.52 & & 0.54 & 0.51 & 0.72 & 0.08 & 0.08 & & 0.17 & 0.17 & \\
\hline Uniform Delay, \(\mathrm{d}_{1}\) & 27.2 & 38.1 & & 20.2 & 29.1 & 7.5 & 69.7 & 71.4 & & 60.3 & 63.8 & \\
\hline Progression Factor, PF & 1.000 & 1.000 & & 1.000 & 1.000 & 1.000 & 1.000 & 1.000 & & 1.000 & 1.000 & \\
\hline Delay Calibration, k & 0.14 & 0.50 & & 0.11 & 0.23 & 0.11 & 0.11 & 0.19 & & 0.11 & 0.34 & \\
\hline Incremental Delay, \(\mathrm{d}_{2}\) & 2.1 & 16.9 & & 0.1 & 0.6 & 0.1 & 1.3 & 8.1 & & 0.5 & 14.8 & \\
\hline Initial Queue Delay, \(\mathrm{d}_{3}\) & 0.0 & 0.0 & & 0.0 & 0.0 & 0.0 & 0.0 & 0.0 & & 0.0 & 0.0 & \\
\hline Control Delay & 29.3 & 55.0 & & 20.3 & 29.6 & 7.6 & 71.0 & 79.5 & & 60.8 & 78.6 & \\
\hline Lane Group LOS & C & D & & C & C & A & \(E\) & \(E\) & & \(E\) & \(E\) & \\
\hline Approach Delay & \multicolumn{3}{|c|}{53.5} & \multicolumn{3}{|c|}{26.1} & \multicolumn{3}{|c|}{76.4} & \multicolumn{3}{|c|}{66.9} \\
\hline Approach LOS & \multicolumn{3}{|c|}{D} & \multicolumn{3}{|c|}{C} & \multicolumn{3}{|c|}{\(E\)} & \multicolumn{3}{|c|}{\(E\)} \\
\hline Intersection Delay & \multicolumn{3}{|c|}{45.1} & \multicolumn{3}{|l|}{\(X_{c}=0.88\)} & \multicolumn{3}{|l|}{Intersection LOS} & \multicolumn{3}{|c|}{D} \\
\hline
\end{tabular}

\section*{BACK-OF-QUEUE WORKSHEET}

\section*{General Information}

Project Description 21-196 Farrell West \& 21-197 Farrell East - 2nd WBL, 3rd SBL
Average Back of Queue


\section*{Percentile Back of Queue (95th percentile)}
\begin{tabular}{|l||l||l|l|l|l|l|l|l|l|l|l|}
\hline\(f \mathrm{fB} \%\) & 2.0 & 1.5 & & 2.0 & 1.7 & 2.0 & 2.0 & 2.0 & & 1.9 & 1.8 \\
\hline Back of Queue & 6.0 & 82.0 & & 5.3 & 36.4 & 7.7 & 4.0 & 7.2 & & 12.2 & 19.2 \\
\hline
\end{tabular}

Queue Storage Ratio
\begin{tabular}{|l||l||l|l|l|l|l|l|l|l|l|l|l|}
\hline Queue Spacing & 25.0 & 25.0 & & 25.0 & 25.0 & 25.0 & 25.0 & 25.0 & & 25.0 & 25.0 & \\
\hline Queue Storage & 0 & 0 & & 0 & 0 & 0 & 0 & 0 & & 0 & 0 & \\
\hline Average Queue Storage Ratio & & & & & & & & & & & & \\
\hline \(95 \%\) Queue Storage Ratio & & & & & & & & & & & & \\
\hline
\end{tabular}

\section*{HCS \({ }^{\text {™ }}\) DETAILED REPORT}
\begin{tabular}{ll} 
Intersection & Forest Hill + Polo Club \\
Area Type & All other areas \\
Jurisdiction & VOW \\
Analysis Year & \(2026 \mathrm{w} /\) Improvements \\
& \(21-196\) Farrell West \& 21- \\
Project ID & \begin{tabular}{l}
197 Farrell East - 2nd WBL, \\
\\
\\
3rd SBL
\end{tabular} \\
\hline
\end{tabular}

\section*{Volume and Timing Input}
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline \multirow[t]{2}{*}{} & \multicolumn{3}{|c|}{EB} & \multicolumn{3}{|c|}{WB} & \multicolumn{3}{|c|}{NB} & \multicolumn{3}{|c|}{SB} \\
\hline & LT & TH & RT & LT & TH & RT & LT & TH & RT & LT & TH & RT \\
\hline Number of Lanes, \(\mathrm{N}_{1}\) & 1 & 3 & 0 & 2 & 3 & 1 & 1 & 1 & 0 & 3 & 1 & 0 \\
\hline Lane Group & L & TR & & L & T & \(R\) & L & TR & & L & TR & \\
\hline Volume, V (vph) & 62 & 2207 & 49 & 132 & 2379 & 64 & 40 & 2 & 112 & 182 & 2 & 70 \\
\hline \% Heavy Vehicles, \%HV & 2 & 2 & 2 & 2 & 2 & 2 & 2 & 2 & 2 & 2 & 2 & 2 \\
\hline Peak-Hour Factor, PHF & 0.95 & 0.95 & 0.95 & 0.95 & 0.95 & 0.95 & 0.95 & 0.95 & 0.95 & 0.95 & 0.95 & 0.95 \\
\hline Pretimed (P) or Actuated (A) & A & A & A & A & A & A & A & A & A & A & A & A \\
\hline Start-up Lost Time, I1 & 2.0 & 2.0 & & 2.0 & 2.0 & 2.0 & 2.0 & 2.0 & & 2.0 & 2.0 & \\
\hline Extension of Effective Green, e & 2.0 & 2.0 & & 2.0 & 2.0 & 2.0 & 2.0 & 2.0 & & 2.0 & 2.0 & \\
\hline Arrival Type, AT & 3 & 3 & & 3 & 3 & 3 & 3 & 3 & & 3 & 3 & \\
\hline Unit Extension, UE & 3.0 & 3.0 & & 3.0 & 3.0 & 3.0 & 3.0 & 3.0 & & 3.0 & 3.0 & \\
\hline Filtering/Metering, I & 1.000 & 1.000 & & 1.000 & 1.000 & 1.000 & 1.000 & 1.000 & & 1.000 & 1.000 & \\
\hline Initial Unmet Demand, Qb & 0.0 & 0.0 & & 0.0 & 0.0 & 0.0 & 0.0 & 0.0 & & 0.0 & 0.0 & \\
\hline Ped / Bike / RTOR Volumes & 0 & 0 & 10 & 0 & 0 & 60 & 0 & 0 & 10 & 0 & 0 & 10 \\
\hline Lane Width & 12.0 & 12.0 & & 12.0 & 12.0 & 12.0 & 12.0 & 12.0 & & 12.0 & 12.0 & \\
\hline Parking / Grade / Parking & \(N\) & 0 & \(N\) & \(N\) & 0 & \(N\) & \(N\) & 0 & \(N\) & \(N\) & 0 & \(N\) \\
\hline Parking Maneuvers, Nm & & & & & & & & & & & & \\
\hline Buses Stopping, NB & 0 & 0 & & 0 & 0 & 0 & 0 & 0 & & 0 & 0 & \\
\hline Min. Time for Pedestrians, Gp & \multicolumn{3}{|c|}{3.2} & \multicolumn{3}{|c|}{3.2} & \multicolumn{3}{|c|}{3.2} & \multicolumn{3}{|c|}{3.2} \\
\hline
\end{tabular}
\begin{tabular}{|l|l|l|l|l|l|l|l|l|}
\hline \hline Phasing & Excl. Left & EB Only & EW Perm & \multicolumn{1}{|c|}{04} & SB Only & NB Only & 07 & 08 \\
\hline \multirow{2}{*}{ Timing } & \(\mathrm{G}=10.0\) & \(\mathrm{G}=3.0\) & \(\mathrm{G}=80.0\) & \(\mathrm{G}=\) & \(\mathrm{G}=20.0\) & \(\mathrm{G}=20.0\) & \(\mathrm{G}=\) & \(\mathrm{G}=\) \\
\cline { 2 - 9 } & \(\mathrm{Y}=7\) & \(\mathrm{Y}=0\) & \(\mathrm{Y}=7\) & \(\mathrm{Y}=7\) & \(\mathrm{Y}=6.5\) & \(\mathrm{Y}=6.5\) & \(\mathrm{Y}=\) & \(\mathrm{Y}=\) \\
\hline Duration of Analysis, \(\mathrm{T}=0.25\) & \multicolumn{5}{|c|}{ Cycle Length, \(\mathrm{C}=160.0\)} \\
\hline
\end{tabular}

Lane Group Capacity, Control Delay, and LOS Determination
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline & \multicolumn{3}{|c|}{EB} & \multicolumn{3}{|c|}{WB} & \multicolumn{3}{|c|}{NB} & \multicolumn{3}{|c|}{SB} \\
\hline & LT & TH & RT & LT & TH & RT & LT & TH & RT & LT & TH & RT \\
\hline Adjusted Flow Rate, v & 65 & 2364 & & 139 & 2504 & 4 & 42 & 109 & & 192 & 65 & \\
\hline Lane Group Capacity, c & 268 & 2625 & & 868 & 2537 & 1059 & 221 & 199 & & 603 & 199 & \\
\hline v/c Ratio, X & 0.24 & 0.90 & & 0.16 & 0.99 & 0.00 & 0.19 & 0.55 & & 0.32 & 0.33 & \\
\hline Total Green Ratio, g/C & 0.67 & 0.52 & & 0.53 & 0.50 & 0.67 & 0.13 & 0.13 & & 0.13 & 0.13 & \\
\hline Uniform Delay, \(\mathrm{d}_{1}\) & 30.8 & 34.8 & & 30.5 & 39.5 & 8.8 & 62.7 & 65.8 & & 63.8 & 63.9 & \\
\hline Progression Factor, PF & 1.000 & 1.000 & & 1.000 & 1.000 & 1.000 & 1.000 & 1.000 & & 1.000 & 1.000 & \\
\hline Delay Calibration, k & 0.11 & 0.42 & & 0.11 & 0.49 & 0.11 & 0.11 & 0.15 & & 0.11 & 0.11 & \\
\hline Incremental Delay, \(\mathrm{d}_{2}\) & 0.5 & 4.7 & & 0.1 & 14.9 & 0.0 & 0.4 & 3.2 & & 0.3 & 1.0 & \\
\hline Initial Queue Delay, \(\mathrm{d}_{3}\) & 0.0 & 0.0 & & 0.0 & 0.0 & 0.0 & 0.0 & 0.0 & & 0.0 & 0.0 & \\
\hline Control Delay & 31.2 & 39.5 & & 30.6 & 54.4 & 8.8 & 63.2 & 68.9 & & 64.1 & 64.8 & \\
\hline Lane Group LOS & C & D & & C & D & A & \(E\) & \(E\) & & \(E\) & \(E\) & \\
\hline Approach Delay & \multicolumn{3}{|c|}{39.3} & \multicolumn{3}{|c|}{53.1} & \multicolumn{3}{|c|}{67.3} & \multicolumn{3}{|c|}{64.3} \\
\hline Approach LOS & \multicolumn{3}{|c|}{D} & \multicolumn{3}{|c|}{D} & \multicolumn{3}{|c|}{\(E\)} & \multicolumn{3}{|c|}{E} \\
\hline Intersection Delay & \multicolumn{3}{|c|}{47.9} & \multicolumn{3}{|l|}{\(X_{c}=0.77\)} & \multicolumn{3}{|l|}{Intersection LOS} & \multicolumn{3}{|c|}{D} \\
\hline
\end{tabular}

\section*{BACK-OF-QUEUE WORKSHEET}

\section*{General Information}

Project Description 21-196 Farrell West \& 21-197 Farrell East - 2nd WBL, 3rd SBL
Average Back of Queue


\section*{Percentile Back of Queue (95th percentile)}
\begin{tabular}{|l||l||l|l|l|l|l|l|l|l|l|l|}
\hline fB\% & 2.1 & 1.6 & & 2.0 & 1.5 & 2.1 & 2.0 & 2.0 & & 2.0 & 2.0 \\
\hline Back of Queue & 2.3 & 63.4 & & 3.3 & 76.8 & 0.1 & 3.6 & 9.7 & & 6.1 & 5.7 \\
\hline
\end{tabular}

Queue Storage Ratio
\begin{tabular}{|l||l||l|l|l|l|l|l|l|l|l|l|}
\hline Queue Spacing & 25.0 & 25.0 & & 25.0 & 25.0 & 25.0 & 25.0 & 25.0 & & 25.0 & 25.0 \\
\hline Queue Storage & 0 & 0 & & 0 & 0 & 0 & 0 & 0 & & 0 & 0 \\
\hline Average Queue Storage Ratio & & & & & & & & & & & \\
\hline \(95 \%\) Queue Storage Ratio & & & & & & & & & & & \\
\hline
\end{tabular}```


[^0]:    Based on the ITE Trip Generation Manual (11th edition).

[^1]:    Based on the ITE Trip Generation Manual (11th edition)

[^2]:    Based on the ITE Trip Generation Manual (11th edition).

[^3]:    Source: Wellington Traffic Counts and Analysis, April 11, 2018.
    ${ }^{2}$ See Appendix A for count data.
    ${ }^{3}$ Locations 15 and 21 were recounted in June and adjusted based on peak factors from control Location \#9. See Appendix A. Use with caution.

[^4]:    X:LD
    AL

