## APPENDIX I

SW 10th Street Connector \& I-95 Interchange Supplemental Traffic Forecast Scenarios
SW 10th Street Eastbound Weave Operations from the Connector Lane Egress, West of Newport Center Drive, to the Newport Center Drive and I-95 Intersections

SW 10th Street at I-95 - Alternatives Analysis Memorandum

MEMORANDUM

| Date: | July 20, 2020 |
| :---: | :---: |
| To: | Robert Bostian, Project Management, FDOT District 4 |
| From: | Andrew Velasquez, AECOM Program Manager, Planning and Traffic Engineering Emam Emam, AECOM Traffic Engineering Group Manager |
| Copies: | Henry Pinzon, FTE Environmental Management Office Brian Ribaric, Atkins Project Manager Lisa Dykstra, RS\&H |
| Subject: | SW 10 ${ }^{\text {th }}$ Street Connector \& I-95 Interchange Supplemental Traffic Forecast Scenarios |
| FPN(s): | 436964-1, 439891-1 |
| Counties: | Broward (86) |

At the request of the Florida Department of Transportation (FDOT) District 4, Florida's Turnpike Enterprise (FTE) staff was tasked with evaluating additional forecast scenarios addressing potential modifications to the SW $10^{\text {th }}$ Street Connector ramps to and from I-95. With the changes in traffic demand associated with the l-95 connections, the intermediate access ramp connections between the Florida's Turnpike and I-95 interchanges were also revisited and new forecast scenarios were developed. Furthermore, the Sawgrass Expressway/Turnpike interchange configuration has been revised since the previous forecast, resulting in a modified forecast affecting the new scenarios.

This memorandum is prepared in support of the I-95 Project Development and Environment (PD\&E) study from SW 10 th Street to Hillsboro Boulevard (FPID 436964-1) and the SW 10 ${ }^{\text {th }}$ Street Connector PD\&E study (FPID 439891-1). This memorandum provides supplemental traffic forecast scenarios to the Project Traffic Forecast Memorandum (PTFM), dated January 2019, and the SW $10^{\text {th }}$ Street Connector Toll-Free Project Traffic Forecast Memorandum, dated November 2019. The Alternative 3D 1.3b non-tolled forecast from the November 2019 memo is now referred to as "Base PD\&E Concept" since this forecast was used in the draft SW $10^{\text {th }}$ Street Connector PD\&E Project Traffic Analysis Report (PTAR), dated September 2019.

Since the publication of the draft SW $10^{\text {th }}$ Street Connector PD\&E PTAR, FTE has revised the interchange configuration at the Sawgrass Expressway/Turnpike interchange to remove the express lanes along the Sawgrass Expressway, and change the Turnpike Mainline configuration from two express lanes in each direction to one managed lane in each direction. The direct
connect ramps to/from the Turnpike south and from/to the SW $10^{\text {th }}$ Street Connector east were changed to connect to the Turnpike general lanes only, instead of the Turnpike express lanes only. These changes are reflected in each new forecast scenario for the SW $10^{\text {th }}$ Street Connector.

For simplification purposes, new scenario names were established in this memo rather than retaining previously named forecast scenario names. Scenarios A, B, and C describe three basic intermediate access options for the SW $10^{\text {th }}$ Street Connector, as described below:

Scenario A: Provides intermediate access for local SW 10 ${ }^{\text {th }}$ Street, serving Powerline Road (to/from the east) and Newport Center Drive (to/from the west).

Scenario B: Provides no access between local SW $10^{\text {th }}$ Street and the SW $10^{\text {th }}$ Street Connector; no ramps to serve either Powerline Road or Newport Center Drive.

Scenario C: Provides access east of Military Trail for local SW $10^{\text {th }}$ Street, serving Newport Center Drive to/from the west. There is no access to/from Powerline Road.

For each scenario, three sub-scenarios describe the connection possibilities for the SW $10^{\text {th }}$ Street Connector with the I-95 general use lanes (GULs) and express lanes (ELs), as describe below:

Sub-scenario 1: Connects to/from I-95 ELs only.
Sub-scenario 2: Connects to/from I-95 GULs, as well as I-95 ELs.
Sub-scenario 3: Connects to/from I-95 GULs only.
The scenario and sub-scenarios combinations create nine unique forecast scenarios (A1, A2, A3, B1, B2, B3, C1, C2, and C3), as summarized in Table 1. Appendix A also provides a schematic for each scenario east of the Sawgrass Expressway/Turnpike interchange. Appendix B provides the consolidated diagram with Sawgrass Expressway, Turnpike, SW $10^{\text {th }}$ Street, and I-95 for the previous Base PD\&E Concept and Scenario A2. The latest update of the Turnpike/Sawgrass interchange as shown in A2 can be described as follows:

- Sawgrass Expressway: 5 GTLs instead of 3 GTLs + 2 Els
- Turnpike Mainline: 1 Managed Lane + 4 GTLs instead of 2 ELs + 3 GTLs
- Sawgrass/Turnpike Interchange: No EL Direct Connect
- Turnpike to SW 10th Connector (from south to east): GTLs connection instead of ELs

Initial Directional Design Hour Volumes (DDHVs) were developed for the 2040 AM period only to compare and shortlist these scenarios for further analysis. This approach is approved by the study team.

Table 1: SW $10^{\text {th }}$ Street Connector Forecast Scenarios Summary

| Scenario | Turnpike Interchange |  | Intermediate Access between Turnpike and I-95 |  | I-95 Interchange Connection |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | GUL | EL | East of Powerline Rd. | East of Military Tr. | EL | EL \& GUL | GUL |
| PD\&E <br> Base | X | X | X | X | X |  |  |
| A1 | X |  | X | X | X |  |  |
| A2 | X |  | X | X |  | X |  |
| A3 | X |  | X | X |  |  | X |
| B1 | X |  |  |  | X |  |  |
| B2 | X |  |  |  |  | X |  |
| B3 | X |  |  |  |  |  | X |
| C1 | $x$ |  |  | $x$ | X |  |  |
| C2 | $x$ |  |  | X |  | X |  |
| C3 | X |  |  | X |  |  | X |

The traffic forecasting process was accomplished using the Express Lane Time-of-Day (ELToD) model to identify traffic volume split between connector lanes and local lanes. The ELToD model encompasses the area of three study corridors:

- Florida's Turnpike corridor between Lake Worth Road and Atlantic Boulevard
- I-95 corridor between Congress Avenue and Atlantic Boulevard
- Sawgrass/SW $10^{\text {th }}$ Street corridor between University Drive and Natura Boulevard

The trip matrices from the Southeast Regional Planning Model (SERPM) were used as input to the subarea ELToD Model. Trip matrices for Scenarios A2/C2 are provided in Appendix C. Each of the scenarios was coded into ELToD to estimate the managed lane and local lane traffic. ELToD can model toll and non-toll portions of the system in one cohesive model network. In these forecast scenarios, the only express lane portion is I-95 Express since the other priced managed lane toll components were removed from SW $10^{\text {th }}$ Street, Sawgrass Expressway, and the Turnpike Mainline.

Figure 1 through 3 present the SW $10^{\text {th }}$ Street Connector and local lane 2040 AM DDHVs along SW $10^{\text {th }}$ Street between the Turnpike and I-95 for each scenario in comparison to the Base PD\&E Concept. The SW $10^{\text {th }}$ Street local lane volumes for both directions are shown at three locations: west of Powerline Road, west of Military Trail, and west of Newport Center Drive.

Figure 1: Year 2040 AM Peak Hour Scenario A Traffic Forecasts


| $\longrightarrow$ EL Ingress |
| :--- |
| $\longrightarrow$ EL Egress |
| $\longrightarrow$ |
| EL Segment |
| Turnpike Mainline / Secondary Road |

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Figure 2: Year 2040 AM Peak Hour Scenario B Traffic Forecasts


| $\longrightarrow$ EL Ingress |
| :--- |
| $\longrightarrow$ EL Egress |
| $\longrightarrow$ |
| $\longrightarrow$ EL Surnike Mainline / Secondary Road |

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Figure 3: Year 2040 AM Peak Hour Scenario C Traffic Forecasts


## $\longrightarrow$ EL Ingress <br> EL Egress $=$ EL Segment <br> Turnpike Mainline / Secondary Road

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An important aspect of the new scenarios is the connection to the l-95 GULs. With the general use connection, the anticipated volume on the SW $10^{\text {th }}$ Street Connector increases, and local lane traffic decreases. Additionally, the connection to the l-95 GULs also affects the traffic volumes on I-95. As a way to compare the alternatives with one another and the Base PD\&E Concept, the I-95 general use lane (GUL) traffic north and south of SW $10^{\text {th }}$ Street is provided in Table 2. Additionally, the sum of the SW $10^{\text {th }}$ Street local lane traffic at each of the three locations shown on Figures 1 through 3 is also provided in Table 2. The scenarios were then ranked from 9 (worst) to 1 (best) based on these two criteria:

- The impacts to SW $10^{\text {th }}$ local have been always major concern to City of Deerfield Beach and locals. An alternative with higher local traffic (higher percentage compared to Base PD\&E) indicates unacceptable/degraded operations of major intersections (LOS F)
- I-95 operations is major concern to D4. Higher volumes on the I-95 GULs are undesirable and would suggest degraded operations compared to the Base PD\&E. Per lane volumes exceeding LOS D indicates fatal flow alternative and highlighted in red.

Table 2: SW $10^{\text {th }}$ Street Connector Intermediate Access Scenarios Evaluation

| Evaluated Scenarios (2040 AM) | PD\&E Base <br> Full Access between Turnpike and I-95 | Full Access between Turnpike and 1.95 |  |  | No Access between Turnpike and I. 95 |  |  | Partial Access between Turnpike and I-95 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | (A1) <br> EL Only | $\begin{gathered} \text { (A2) } \\ \text { EL \& GUL } \end{gathered}$ | (A3) GUL Only | (B1) <br> EL Only | $\begin{gathered} \text { (B2) } \\ \text { EL \& GUL } \end{gathered}$ | (B3) <br> GUL Only | $\begin{gathered} \text { (C1) } \\ \text { EL Only } \end{gathered}$ | $\begin{gathered} \text { (C2) } \\ \text { EL \& GUL } \end{gathered}$ | (C3) <br> GUL Only |
| I-95 GUL NB North of Hillsboro Blvd (vphpl)* | 1,730 | 1,700 | 1,820 | 2,150 | 1,800 | 1,830 | 2,220 | 1,770 | 1,820 | 2,130 |
| I-95 GUL NB South of SW 10th (vphpl)* | 1,830 | 1,780 | 1,800 | 1,830 | 1,890 | 1,820 | 1,920 | 1,840 | 1,790 | 1,820 |
| Ranking (Based on higher/worst volume value per lane for the I-95 NB locations) |  | 1 | 3 | 8 | 6 | 4 | 9 | 5 | 2 | 7 |
| SW 10th Local Traffic** | 11,720 | 11,770 | 10,530 | 11,110 | 17,300 | 13,970 | 15,470 | 13,650 | 11,850 | 12,840 |
|  | \% | 100\% | 90\% | 95\% | 148\% | 119\% | 132\% | 116\% | 101\% | 110\% |
| Rank <br> (Based on \% of the Base PD\&E concept) |  | 3 | 1 | 2 | 9 | 7 | 8 | 6 | 4 | 5 |

* Red indicates I-95 mainline volumes per lane exceeds LOS D target
** SW 10 th local lane volumes for both directions at three locations: west of Powerline Road, west of Military Trail, and west of Newport Center Drive.

The findings based on the traffic forecast comparison can be summarized as follows:

- Scenarios A3, B3, and C3 have forecasted traffic volumes on the I-95 GULs that exceed the target Level of Service (LOS) D threshold (based on the FDOT Generalized Service Volume tables) north of the Hillsboro Boulevard interchange.
- Scenarios B1, B2, and B3 have traffic volumes on the SW $10^{\text {th }}$ Street local lanes that are 19 to 48 percent higher than the Base PD\&E Concept. This will result in degraded level of service conditions compared to the Base PD\&E Concept. Correspondingly, the SW $10^{\text {th }}$ Street Connector will be underutilized, with peak directional volumes in the range of 1,830 vehicles per hour (vph) to $2,220 \mathrm{vph}$.
- Scenarios A1, B1, and C1 maintain the Base PD\&E Concept between the SW $10^{\text {th }}$ Street Connector and I-95 express lanes and are less preferred by the City of Deerfield Beach. The Scenario A1 traffic volume for the egress east of Military Trail is 1,780 vph, which is approaching the practical capacity of a single lane ramp. The Scenario B1 and C1 traffic volumes on the SW $10^{\text {th }}$ Street local lanes are 48 and 16 percent higher than the Base PD\&E Concept, respectively. As a result, traffic operations along SW $10^{\text {th }}$ local lanes will be degraded compared to the Base PD\&E Concept.

Based on the findings from the traffic volume comparisons and considering the project goal to achieve concurrence from the City of Deerfield Beach, the project team determined that Scenarios A2 and C2 should move forward for further operational analysis by the PD\&E teams. Scenario D2 was introduced as a hybrid option and presented to the City of Deerfield Beach. It provides an eastbound ingress and westbound egress serving Powerline Road to and from the east. There are no access ramps serving Newport Center Drive. The three scenarios (A2, C2, and D2) are illustrated on Figure 4. The 2040 AM and PM SW 10 ${ }^{\text {th }}$ Street Connector volumes between the Turnpike and I-95 for Scenarios A2, C2, and D2 are presented on Figures 5 and 6, respectively. The D2 scenario local SW $10^{\text {th }}$ traffic is much higher than options A2 and C2 including the Base PD\&E option by at least 7 percent leading to undesirable operations (i.e, Military trail intersection will operate at LOS F), while SW $10^{\text {th }}$ Street Connector will be underutilized. Accordingly, this scenario will not be analyzed further, though the traffic volumes are provided herein for documentation purposes only.

Detailed 2020 and 2040 AM and PM turning movement projections are provided in Appendix D for the Base PD\&E, A2, and C2 concepts for an expanded analysis area that includes intersections north and south of SW $10^{\text {th }}$ Street and the interchanges at Hillsboro Boulevard and Sample Road. The 2020 and 2040 Annual Average Daily Traffic (AADT) was re-estimated for A2 and C2 concepts and these volumes are provided in Appendix E. The No Action alternative 2020 and 2040 AADT and AM/PM turns are provided in Appendix F.

Figure 4. I-95 Express and I-95 General Use Lane Connections (Scenarios A2, C2, and D2)


Figure 5: Year 2040 AM Peak Hour Traffic Forecasts


| $\longrightarrow$ EL Ingress |  |
| :--- | :--- |
| $\longrightarrow$ EL Egress |  |
| $\longrightarrow$ | EL Segment |
|  | Turnnike Mainline / Secondary Road |

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Figure 6: Year 2040 PM Peak Hour Traffic Forecasts


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## APPENDIX A











## APPENDIX B




## APPENDIX C

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Toal |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | onet | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 |  |
| Tek .oftalawornhic | 1 | 0 | , 091 | 0 | 4.265 | 2,912 | 1,995 | 0 | 22 | 1,155 | 012 | 22,645 | 554 | 1,060 | 9356 | 6,205 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 2 | 18 | 1 | 3 | 3 | 3 | 523 | 12 | 2 | 417 | 14 | 1 | 17 | 6 | 6 | 2 | 9 | 1 | 44 | 56 | 7 | 39,88 |
| Tree Luteworthed. | 2 | 6,091 | 0 | 0 | 334 | 572 | 1,639 | 0 | 1,122 | 753 | 02 | 2.094 | 287 | 461 | 342 | ${ }^{851}$ | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 2 | ${ }^{24}$ | 1 | 5 | 4 | 5 | 95 | 15 | 4 | 618 | ${ }^{23}$ | 2 | 27 | ${ }^{13}$ | 19 | 5 | ${ }^{21}$ | 1 | ${ }^{64}$ | 66 | 8 | 15,575 |
| True mpluesubd. | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  |
| TPe Bommon Eacaliva | 4 | 4,268 | 332 | 0 | 0 | 13 | 2,267 | 0 | 1,059 | 824 | 02 | 2,139 | 360 | 664 | 489 1, | 1,107 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 3 | 33 | 1 | 3 | 3 | 3 | 134 | 17 | 4 | 772 | 16 | 1 | 31 | 12 | 16 | 5 | 14 | 1 | 95 | 76 | 12 | 4,780 |
| Treeatanicicave. | 5 | 2,915 | 570 | 0 | 13 | 0 | 318 | 0 1,21 | 1,127 | 513 | 02 | 2,008 | 330 | 895 | 527 | 860 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 3 | 18 | 1 | 5 | 5 | 5 | 112 | 33 | 6 | 619 | 20 | 2 | 31 | 10 | 12 | 4 | 7 | 1 | ${ }^{64}$ | 23 | 9 | 1.000 |
| Tree Glate ed . | 6 | 2,006 | 1,633 | 0 | 2,264 | 317 | 0 | 0 | 70 | 1,392 | 06 | 6,647 | 3 | 8 | 179 | 538 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 2 | 1 | 2 | 2 | 3 | 160 | 45 | 8 | 264 | 9 | 1 | ${ }^{21}$ | 5 | 1 | 0 | 1 | 1 | 7 | 4 | 2 | 15,598 |
| TRe¢ Exta | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TPke Smpme ed. | 8 | 944 | 1,148 | 0 | 1,090 | 1,163 | 73 | 0 | 0 | 6 | 08 | 8,970 | 13 | 34 | 29 | 28 | 17 | 17 | ${ }^{23}$ | 37 | 28 | 28 | 39 | 8 | 17 | 10 | 0 | 0 | 0 | 0 | 49 | 13 | 51 | ${ }^{43}$ | 17 | ${ }^{34}$ | 12 | ${ }^{15}$ | 12 | 17 | 21 | 99 | 62 | 21 | 14,181 |
| TMNe Cocanut creek | 9 | 1,170 | 756 | 0 | 829 | 510 | 1,223 | 0 | 6 | 0 | 05 | 5,893 | 164 | 12 | 573 2, | 2,393 | 534 | 10 | 9 | 14 | 11 | 11 | 15 | 3 | 6 | 3 | 0 | 0 | 0 | 0 | 17 | 5 | 18 | 17 | 7 | 12 | 5 | 6 | 5 | 7 | 8 | 32 | 21 | 7 | 14,509 |
| TRMe Ataniciend. | 10 | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | , | 010 | 10,386 | 0 | , |  | 0 | , | - |  | , | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10,386 |
| Trks. ofatanaicielva | 11 | 12,629 | 2,063 | 0 | 2,109 | 1,965 | 6,602 | 08 | 8,974 | 5,892 10 | 10,385 | 0 | 3,496 | 1,325 | 364 | 68 | 6,143 | 157 | 32 | 42 | 73 | 78 | 22 | 144 | 526 | 12 | 0 | 0 | 0 | 0 | 24 | 7 | 25 | 26 | 9 | 17 | 264 | 295 | 154 | 10 | 11 | 49 | ${ }^{31}$ | 11 | ${ }_{6}^{64,035}$ |
|  | 12 | 546 | 279 | 0 | 349 | 318 | 3 | 0 | 12 | 161 | - | 3,516 | 0 | 6 | 859 3, | 3,739 | 210 | 9 | 13 | 9 | 44 | 2 | 2 | , | 49 | 2 | 2 | 24 | 2 | 158 | 55 | 25 | 8 | 9 | 12 | 9 | 26 | 14 | 2 | 25 | 2 | 8 | 3 | 1 | 10,515 |
|  | 13 | 1,067 | 458 | 0 | 661 | 892 | 8 | 0 | 33 | 12 | 01 | 1,323 | 6 | 0 | 80288 | 8,510 | 1,217 | 32 | 70 | 25 | 76 | 264 | 6 | 4 | 308 | 2 | 328 | 7 | 5 | 290 | 106 | 8 | 13 | 10 |  | 11 | 44 | 29 | 23 | 74 | 6 | 29 | 9 | 3 | 16,780 |
| Sangess Epy U Univestivor. | 14 | 927 | 338 | 0 | 485 | 524 | 182 | 0 | 28 | 575 | 0 | 358 | 857 | 793 | 0 2, | 2,886 | 1,293 | 88 | 212 | 104 | 199 | 197 | 5 | 46 | 477 | 7 | 231 | 44 | 4 | 526 | 46 | 49 | 340 | 25 | 25 | 154 | 125 | 115 | 14 | 727 | 5 | 110 | 405 | 5 | ${ }^{13,350}$ |
|  | 15 | 6,238 | 851 | 0 | 1,111 | 868 | 549 | 0 | 28 | 2,412 | 0 | 56 | 3,750 | 8,519 | 2.886 | 0 | 2,800 | 152 | 503 | 272 | 264 | 927 | 5 | 98 | 1,085 | 18 | 572 | 53 | 4 | 395 | 29 | 61 | 494 | 37 | 42 | 235 | 177 | ${ }^{134}$ | ${ }^{36}$ 1,12 | 1,412 | 5 | 145 | 1,999 | 6 | ${ }^{39,288}$ |
| 1.95 N.of Pemisisul corp. 0 . | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 16 | 523 | 06 | 6,053 | 231 | 1,306 | 1,313 2, | 2,717 | 0 | 7,104 | 15,324 | 9,143 12 | 12,444 10 | 10,353 6 | 6,883 | 10 | 525 | 155 | 3,026 | 2,727 6,3 | 6,330 | 18,717 | 173 | 65 | 77 | 38 | 380 | 1,325 | 189 | 3 | 3 | 2 | 90 | 2 | 3 | 29 | 1072,22 |
| 1.95 Pememisula Cor. Dr. | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 16 | 9 | 0 | 140 | 10 | 35 | 85 | 144 | 7,104 | 0 | 180 | 377 | 335 | 638 | 460 | 3 | 62 | 25 | 299 | 143 | 433 | 1,209 | 18 | 5 | 2 | 4 | 14 | 118 | 14 | 3 | 3 |  | 9 |  | 2 | 3 | 11,088 |
| 1.95 Vemata Rd. | 18 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 23 | 9 | 0 | 23 | 14 | 72 | 217 | 509 | 15,316 | 185 | 0 | 1,482 | 1,028 | 1,774 | 1,729 | 5 | 133 | 91 | 1,153 | 640 | 1,165 | 6,524 | 88 | 28 | 3 | ${ }^{13}$ | 54 | 496 | 63 | 4 | 4 | 3 | 26 | 2 | 3 | 12 | 32,89 |
| 1.95 C Sanash R River $^{\text {a }}$ | 19 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 40 | 15 | 0 | 27 | 10 | 26 | 109 | 281 | 9,122 | 364 | 1.992 | 0 | 1 | 1,315 | 663 | 4 | 19 | 22 | 760 | 654 | 674 | 2,547 | 36 | 5 | 4 | 30 | 27 | 311 | 53 | 11 | 11 | 4 | 14 | 3 | 4 | 6 | 18.995 |
| 1.595 Crates $\mathrm{Sd}$. | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 27 | 11 | 0 | 58 | 49 | 79 | 211 | 274 | 12,519 | 311 | 958 | 6 | 0 | 3392 | 2,355 | 8 | 324 | 125 | 2,904 | 1,241 2, | 2,120 | 5,988 | 276 | 84 | 3 | ${ }^{21}$ | 52 | 1,233 | 30 | 6 | 6 | 3 | ${ }^{24}$ | 2 | 3 | 17 | 30,779 |
| 1.95 P Palmetoto Pakkd. | 21 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 28 | 11 | 0 | 68 | 2 | 267 | 210 | 976 | 10,400 | 640 | 1,722 | 1,303 | 332 | 0 | 1,820 | 22 | 210 | 131 | 2,682 | 1,401 2 | 2.011 | 5,375 | 171 | 59 | 4 | 22 | ${ }^{63}$ | 890 | 115 | 6 | 6 | 4 | 3 | 3 | 4 | 17 | 30,971 |
| 1.55 exilboro Bud. | 22 | 4 | 7 | 0 | 4 | 7 | 4 | 0 | 46 | 17 | 0 | 0 | 3 |  | 6 | 5 | 6,950 | 480 | 1,706 | 6612 | 2,314 1, | 1,784 | - | 4 | 9 | 5 | 1,524 | 2,825 3,3, | 3,330 | 8,195 | 6 |  | 4 | 7 | 5 | 5 | 10 | 12 | 11 | 5 | 5 | 4 | 4 |  | 29,972 |
| Naurabav. . . ofsw | 23 | 2 | 3 | 0 | 6 | 4 | 1 | 0 | 16 | 5 | 0 | 347 | 5 | 7 | 96 | 206 | 24 | 5 | 11 | 6 | 29 | 33 | 3 | 0 | 3,934 | 991 | 101 | 171 | 112 | 232 | 8 | 1 | 1 | 5 | 6 | 157 | 32 | 22 | 4 | 48 | 6 | 2 | 6 | 4 | ${ }_{6,653}$ |
|  | 24 | 14 | 18 | 0 | 26 | 15 | 2 | 0 | 16 | 6 | 0 | 493 | 46 | 283 | 442 1, | 1,002 | 931 | 126 | 193 | 46 | 830 | 345 | 5 | 4,671 | 0 | 3,501 | 144 | 1,990 1, | 1,661 | 6,985 | 118 | 18 | 1 | 56 | 59 | 722 | 599 | 277 | 122 | 659 | 131 | 9 | 62 | 47 | 22.670 |
| Natra Buv. S. Sotsw 1 Oth | 25 | 1 | 1 | 0 | 2 | 2 | 1 | 0 | 17 | 6 | 0 | 14 | 2 | 3 | 10 | 26 | 153 | 20 | 69 | 21 | 124 | 111 | 4 | 896 | 3,477 | 0 | 2 | 9 | 34 | 110 | 3 | 0 | 1 | 3 | 3 | 13 | 78 | 99 | 3 | 181 | 47 | 2 | 4 | 1 | 5,533 |
| 1.95 Smpmer Rd. | 26 | 3 | 4 | 0 | 2 | 4 | 2 | 0 | 0 | 0 | , | 0 | 2 | 281 | 193 | 494 | 3,212 | 310 | 1,227 | 766 | 2,717 2 | 2.678 | 1,556 | 92 | 166 | 1 | 0 | 86 | 2,714 | 16,284 | 4 | 1 | 3 | 4 | 3 | 3 | 24 | 22 | 8 | 3 | 3 | 2 | 3 | 2 | 32,877 |
|  | 27 | 2 | 4 | 0 | 2 | 4 | 2 | 0 | 0 | 0 | 0 | 0 | 19 | 6 | 35 | 41 | 2,735 | 146 | 675 | 6511. | 1,195 1 | 1,430 2 | 2,710 | 117 | 2,166 | 9 | 83 | 0 | 251 | 18,434 | 3 | 1 | 2 | 4 | 2 | 3 | 63 | 44 | 9 | 12 | 11 | 2 | 2 | 1 | 30,87 |
|  | 28 | 3 | 4 | 0 | 2 | 4 | 2 | 0 | 0 | 0 | 0 | 0 | 2 | 4 | 3 | 36 | 6,402 | 421 | 1,145 | 662 1, | 1,963 | 2,024 | 3,283 | 92 | 1,796 | 27 | 2,746 | 315 | 0 | 23,277 | 4 | 1 | 3 | 4 | 3 | 43 | 192 | 138 | 74 | 118 | 87 | 2 | 3 | 3 | 44.85 |
| 1.59 es.ofatanicic ind. | 29 | 421 | 76 | 0 | 107 | 87 | 131 | 0 | 0 | 0 | - | 0 | 113 | 231 | 415 | 33318 | 18,126 | 1,150 | 6,605 | 2,608 5, | 5,320 5, | 5,562 8 | 8,367 | 226 | 7,657 | 97 | 16,318 | 18,401 23 | 23,297 | , | 123 | 7 | 2 | 35 | 43 | 396 | 513 | 560 | 23 | 372 | 317 | 30 | 665 | 38 | 118,72 |
| Waememe Eld. S. Sotsw 1 loth St | 30 | 13 | 16 | 0 | 22 | ${ }^{38}$ | 54 | 0 | 79 | 27 | . | 0 | 49 | 87 | 49 | 31 | 119 | 13 | 74 | 26 | 196 | 118 | 5 | 5 | 172 | 2 | 4 | 4 | 4 | ${ }^{131}$ | 0 | 10 | 703 | 16 | 10 | 37 | 33 | 58 | 13 | 194 | 4 | 19 | 303 | 3 | 2,739 |
|  | 31 | 3 | 6 | 0 | 7 | 8 | 10 | 0 | 24 | 8 | 0 | 0 | 26 | 8 | 50 | 60 | 47 | 4 | 23 | 5 | 62 | 46 | 1 | 1 | 26 | 0 | 1 | 1 | 1 | 9 | 6 | 0 | 271 | 5 | 5 | 4 | 10 | 18 | 5 | 67 | 1 | 2 | 3 | 0 | ${ }_{85} 8$ |
|  | 32 | 444 | 650 | 0 | 808 | 646 | 277 | 0 | 58 | 20 | 0 | 0 | 8 | 13 | 369 | 546 | 59 | 2 | 3 | 4 | 3 |  | 4 | 0 | 1 | 0 | 3 | 3 | 3 | 2 | 609 | 225 | 0 | 5 | 3 | 4 | 3 | 4 | 2 | 3 | 3 | 751 | 10,307 | 78 | 15,26 |
|  | 33 | 14 | 22 | 0 | 16 | 20 | 10 | 0 | 64 | 23 | - | 0 | 10 | 15 | 29 | 52 | 56 | 5 | 13 | 30 | 20 | 22 | 7 | 4 | 80 | 3 | 5 | 5 | 6 | 41 | 17 | 5 | 5 | 0 | 407 | 13 | 6 | 9 | 3 | 79 | 15 | 9 | 538 | 27 | 1,705 |
| Swestane. S. Sofsw 10ats. | 34 | 1 | 2 | 0 | 2 | 2 | 1 | 0 | 27 | 10 | 0 | 0 | 13 | 16 | 31 | 59 | 347 | 13 | 47 | 27 | 44 | 54 | 6 | 5 | 94 | 3 | 4 | 4 | 5 | 55 | 12 | 5 | 4 | 411 | 0 | 20 | 26 | ${ }^{41}$ | 82 | 214 | 14 | 8 | 512 | 7 | 2,153 |
| Militay Trais ofots 10atst. | 35 | 25 | 37 | 0 | 34 | ${ }^{38}$ | 23 | 0 | 22 | 8 | - | 0 | 7 | 8 | 100 | 128 | 1,199 | 114 | 486 | 291 | 1.092 | 769 | 5 | 102 | 932 | 11 | 4 | 4 | 54 | 505 | 28 | 4 | 3 | 8 | 16 | 0 | 546 | 884 | 6, | 6,944 | 588 | 14 | 775 | 27 | 15,911 |
|  | 36 | 9 | 17 | 0 | 16 | ${ }^{13}$ | 6 | 0 | ${ }^{13}$ | 5 | 0 | 302 | 30 | 53 | 144 | 211 | 174 | 12 | 45 | 42 | 28 | 91 | 7 | 15 | 495 | 47 | 21 | 64 | 195 | 424 | 45 | 13 | 4 | 5 | 33 | 582 | 0 | 19 | 4 | 362 | 21 | 8 | 314 | 4 | 3,982 |
| Newport Centere or. . . of os 10in St. | 37 | 9 | 26 | 0 | 22 | 16 | 1 | 0 | 15 | 6 | - | 312 | 16 | 34 | 131 | 143 | 3 | 2 | 3 | 8 | 5 | 5 | 7 | 9 | 210 | 55 | 18 | 50 | 151 | 500 | 89 | 25 | 5 | 7 | 57 | 1,037 | 17 | 0 | 94 | 4 | 57 | 3 | 5 | 8 | ${ }^{3,165}$ |
| memal ono at Newoort center | 38 | 3 | 6 | 0 | 6 | 5 | - | 0 | 12 | 5 | 0 | 158 | 2 | 25 | 14 | 35 | 3 | 2 | 3 | 6 | 4 | 4 | 6 | 1 | 68 | 2 | 6 | 7 | 60 | 18 | 14 | \% | 3 | 4 | 10 | 63 | 3 | 108 | 0 | 3 | 4 | 2 | 3 | 1 | ${ }_{689}$ |
| Militay trial No.tsw 1 1atst | 39 | 9 | 20 | 0 | 14 | 7 | 1 | 0 | 21 | 8 | 0 | 0 | 21 | 82 | 772 1, | 1,646 | 2 | 2 | 3 | 4 | 3 | 3 | 5 | 33 | 845 | 150 | 3 | 14 | 130 | 422 | 194 | 59 | 3 | 62 | 193 | 6,603 | 305 | 3 | 3 | 0 | ${ }^{875}$ | 3 | 3 | 60 | ${ }^{12,586}$ |
| Esator. . . . ots w loinst. | 40 | 1 | 1 | 0 | 1 | 1 | 1 | 0 | 27 | 9 | , | 0 | 3 | 7 | 6 | 7 | 54 | 6 | 18 | 11 | 16 | 4 | 5 | 4 | 173 | 35 | 4 | 13 | 102 | 356 | 4 | 1 | 3 | 11 | 11 | 547 | 20 | 42 | 58 | 826 | 0 | 4 | 3 | 3 | $2,3,3$ |
| Westor E.afo fowetine Ra. | 41 | 39 | 58 | 0 | 80 | 60 | 7 | 0 | 110 | 38 | 0 | 0 | 9 | 31 | 117 | 151 | 2 | 2 | 2 | 3 | 2 | 3 | 3 | 1 | 10 | 1 | 3 | 3 | 3 | 42 | 13 | 2 | 735 | 8 | 5 | 20 | 8 | 3 | 2 | 3 | 4 | 0 | 2.676 | 15 | 4,273 |
| weline ed. . . . f West or. | 42 | 59 | ${ }^{68}$ | 0 | 77 | 24 | 4 | 0 | 70 | 24 | 0 | 0 | 4 | 10 | 382 1, | 1,963 | 2 | 2 | , | 4 | 3 |  | 4 | 5 | 74 | 3 | 3 | 3 | 4 | 948 | 218 | 26 | 10,367 | 633 | 533 | 559 | 250 | 4 | 3 | 4 | 3 | 2,607 | 0 | 642 | 1,594 |
| mal zoneat Powerine | 43 | 7 | 9 | 0 | 14 | 9 | 2 | 0 | 26 | 9 | 0 | 0 | 1 | 4 | 6 | 6 | 29 | 3 | 10 | 6 | 17 | 16 | 3 | 3 | 53 | 1 | 2 | 2 | 4 | 46 | 3 | 0 | 81 | 21 | 7 | 45 | 5 | 7 | 2 | 64 | 3 | 14 | 620 | 0 | 1,160 |
| Toal |  | 3, ${ }^{\text {a }}$ | 15.573 | 0 | 14,79 | 11,088 | 15,60 | $\bigcirc$ | 14,192 | 14,508 | 10,385 | 64,930 | 10.55 | 16,77\| | 13,530 39 | 3,2,36 | 100,333 | 11,908 | 32,04 | 18,721 36 | 30,829 | 31, 032 | 30.021 | 6,566 | 26,272 | 5.553 | 32,94 | 30,921 4 | 44,891 | 11 | 2,331 | 852 | 15,95 | 1.69 | 2,13 | 15,988 | 3,05 | 3,07 | 12 | 12,50 | 2,28 | 4,256 | 19,615 | 1,51 | 895,888 |


|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | zonet | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 |  |
| TerN. of flakeoroth Rd. | 1 | 0 | 1,510 | 0 | ${ }_{1,188}$ | 1,240 | 635 | 0 | 270 | 293 | 0 | 2,992 | 98 | 202 | 260 | 1,938 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 9 | 0 | 1 | 1 | 1 | 29 | 2 | 1 | 173 | 2 | 0 | 2 | 1 | 1 | 1 | 1 | 0 | 30 | 16 | 2 | 10,000 |
| TkR Lateworth Rd. | 2 | 2,866 | 0 | 0 | 113 | 257 | 599 | 0 | 501 | 347 | 0 | 740 | 76 | 146 | 113 | 287 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 14 | 0 | 1 | 1 | 1 | 13 | 2 | 2 | 287 | 3 | 0 | 5 | 2 | 3 | 2 | 3 | 0 | 42 | 23 | 4 | 6,44 |
| Tree Hypluxe Evd. | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $\bigcirc$ |
| Tree Bopton Beach buc | 4 | 1,396 | 137 | 0 | 0 | 6 | 1,031 | 0 | 543 | 418 | 0 | 971 | 118 | 250 | 202 | 508 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 23 | 1 | 1 | 1 | 1 | 24 | 4 | 2 | 463 | 3 | 0 | 8 | 3 | 4 | 3 | 3 | 0 | 72 | 32 | 6 | ${ }_{6,34}$ |
| Trie Atanticave. | 5 | 827 | 177 | 0 | 5 | 0 | 132 | 0 | 334 | 149 | 0 | 655 | 49 | 146 | 136 | 241 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 10 | 1 | 1 | 2 | 2 | 14 | 6 | 2 | 286 | 5 | 0 | 4 | 1 | 2 | 1 | 1 | 0 | 40 | 9 | 3 | 3,248 |
| Tene ciade ed. | 6 | 480 | 480 | 0 | 563 | 80 | 0 | 0 | 22 | 551 | 0 | 1,800 | 1 | 3 | 2 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 1 | 30 | 7 | 2 | 114 | 3 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 5 | 3 | 1 | 4,164 |
| TrNe Bra | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Tree Smple Rd. | 8 | 189 | 246 | 0 | 255 | 461 | 37 | 0 | 0 | 1 | 0 | 3,444 | 9 | 25 | 20 | 18 | 7 | 9 | 12 | 14 | 12 | 13 | 16 | 4 | 11 | 6 | 0 | 0 | 0 | 0 | 16 | 7 | 20 | 27 | 6 | 16 | 6 | 9 | 8 | 7 | 10 | 59 | 32 | 14 | 5,046 |
| TPke Cosunut creek $\mathrm{P}^{\text {a }}$ | 9 | 128 | 84 | 0 | 82 | 66 | 441 | 0 | 3 | 0 | 0 | 1,229 | 16 | 8 | 168 | 902 | ${ }^{88}$ | 5 | 4 | 4 | 4 | 4 | 5 | 1 | 3 | 2 | 0 | 0 | 0 | 0 | 5 | 2 | 6 | 8 | 2 | 5 | 2 | 3 | 2 | 2 | 3 | 18 | 10 | 4 | ${ }^{3,318}$ |
| Tree Altanit Elvd. | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.510 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.510 |
| Trss.of Atanaicic ivd. | 11 | 1,993 | 292 | 0 | 331 | 257 | 3,297 | 0 | 3,654 | 2,140 | 3,370 | 0 | 1,251 | 20 | 16 | 16 | 1,459 | 96 | 12 | 7 | 31 | 42 | 8 | 143 | 499 | 10 | 0 | 0 | 0 | 0 | 8 | 4 | 11 | 14 | 3 | 9 | 123 | 112 | 111 | 4 | 5 | 31 | 17 | 8 | 18,904 |
|  | 12 | 74 | 59 | 0 | 71 | 70 | 1 | 0 | 3 | 35 | 0 | 1,883 | 0 | 3 | 166 | 1,991 | 34 | 2 | 0 | 1 | 2 | 0 | 1 | 0 | 19 | 0 | 0 | 6 | 1 | 13 | 5 | 0 | 1 | 2 | 1 | 6 | 6 | 1 | 1 | 1 | 1 | 5 | 1 | 1 | 4.46 |
| Suwgass Rpy © Us $441 /$ /SR7 | 13 | 241 | 154 | 0 | 235 | 457 | 4 | 0 | 9 | 4 | 0 | 1,218 | 2 | 0 | 64 | ${ }^{3,126}$ | 97 | 6 | 1 | 1 | 32 | 119 | 2 | 2 | 138 | 1 | 78 | 5 | 2 | 60 | 2 | 1 | 4 | 6 | 4 | 4 | 23 | 4 | 17 | 33 | 2 | 18 | 3 | 2 | 6,880 |
| Sawgas Expy Univestity or. | 14 | 249 | 119 | 0 | 151 | 225 | 154 | 0 | 8 | 379 | 0 | 323 | 546 | 326 | 0 | 1,099 | 437 | 50 | 92 | 41 | 1 | 35 | 2 | 33 | 256 | 3 | 78 | 27 | 2 | 162 | 3 | 1 | 154 | 7 | 4 | 79 | 60 | 4 | 10 | 201 | 2 | 64 | 355 | 2 | 5,746 |
| Suwgassexpy W.of funivesity | 15 | 2,263 | 404 | 0 | 409 | 452 | 489 | 0 | 10 | 1,446 | 0 | 46 | 1.513 | ${ }^{2,396}$ | 811 | 0 | 940 | 88 | 257 | 108 | 10 | 128 | 2 | 71 | 601 | 7 | 257 | 20 | 2 | 157 | 3 | 1 | 256 | 16 | 10 | 184 | 123 | 27 | 35 | 546 | 2 | 88 | 1,59 | 2 | 15,76 |
|  | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 72 | 0 | 879 | 19 | 198 | 192 | 648 | 0 | 3,224 | 4,970 | 2,768 | 2,672 | 1,486 | 1,290 | 9 | 353 | 108 | 487 | 539 | 1,777 | 2,220 | 3 | 1 | 0 | 34 | 13 | 195 | 137 | 3 | 3 | 0 | 1 | 0 | 0 | 13 | 24,39 |
| ${ }^{1.95 ¢}$ Pemisisula Cor. P . | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 2 | 0 | 15 | 1 | 4 | 11 | 31 | 775 | 0 | 11 | 81 | 90 | 147 | 167 | 2 | 39 | 17 | 29 | 11 | 48 | 78 | 1 | 0 | 0 | 2 | 0 | 15 | 9 | 2 | 2 | 0 | 1 | 0 | 0 | 1 | 1,988 |
| ${ }^{1.585}$ Pramato Rd. | 18 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 2 | 0 | 18 | 1 | 2 | 41 | 120 | 2,496 | 47 | 0 | 213 | 394 | 619 | 699 | 4 | 69 | 47 | 122 | 48 | 95 | 221 | 3 | 0 | 0 | 9 | 1 | 72 | 49 | 3 | 3 | 1 |  | 1 | 0 | 7 | 5,46 |
| 1.95 ¢ Spansis River | 19 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 19 | 7 | 0 | 27 | 3 | 6 | 22 | 74 | 1,528 | 86 | 526 | 0 | 4 | 276 | 188 | 3 | 8 | 10 | 102 | 145 | 155 | 497 | 1 | 0 | 1 | 14 | 2 | 50 | 39 | 10 | 9 | 2 | 2 | 2 | 1 | 2 | 3,823 |
|  | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 3 | 0 | 31 | 6 | 12 | 52 | 63 | 1,605 | 69 | 128 | 2 | 0 | 52 | 316 | 6 | 151 | 43 | 164 | 42 | 4 | 1,074 | 5 | 1 | 0 | 4 |  | 72 | 16 |  | 5 | 1 | 1 | 1 | 0 | 6 | 3,950 |
| 1.55 Palmetoto Park kd. | 21 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 4 | 0 | 32 | 1 | 14 | 33 | 399 | 2,426 | 215 | 457 | 413 | 35 | 0 | 591 | ${ }^{21}$ | 156 | 90 | 380 | 142 | 156 | 1,29 | 3 | 0 | 0 | 10 | 2 | 72 | 85 | 5 | 5 | 1 | 1 | 1 | 0 | 7 | 7,057 |
| ${ }^{1.955}$ ¢ Hillsboro Evx. | 22 | 0 | 1 | 0 | 1 | 1 | 1 | 0 | 20 | 7 | 0 | 0 | 1 | 3 | 3 | 2 | 1,522 | 182 | 661 | 175 | 646 | 297 | 0 | 3 | 6 | 4 | 514 | 820 | 536 | 1,640 | 0 | 0 | 1 | 3 | 1 | 2 | 7 | 10 | 10 | 2 | 2 | 2 | 1 | 2 | 7.091 |
| Natura Bv. N. . ofsw loth st. | 23 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 7 | 2 | 0 | - | 4 | 2 | 19 | 43 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 951 | 303 | 69 | 93 | 52 | 117 | 1 | 0 | 0 | 4 | 1 | 61 | 25 | 17 |  | 30 | ${ }^{3}$ | 1 | 5 | 4 | 1.825 |
| Sw 1oth St. . .of. 1.95 | 24 | 2 | 4 | 0 | - | 4 | 1 | 0 | 7 | 3 | 0 | 29 | 26 | 140 | 205 | 454 | 101 | 14 | 36 | 5 | 82 | 28 | 1 | 345 | , | 464 | ${ }^{23}$ | 470 | 264 | 1,182 | 15 | 2 | 0 | 51 | 7 | 357 | 482 | 224 | 121 | 429 | 50 | 6 | 29 | 42 | 5,712 |
| Natura Bud. S. ofsw 10.hst. | 25 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 5 | 2 | 0 | 0 |  | 1 | 5 | 12 | 35 | 6 | 30 | 8 | 49 | 27 | 1 | 266 | 535 | 0 | 1 | 3 | 15 | 44 | 0 | 0 | 0 | 3 | 1 | 4 | 65 | 55 | 3 | 67 | 11 | 1 | 2 | 1 | 1,261 |
| 1.59 ¢ Smple Re. | 26 | 0 | 1 | 0 | 0 | , | 1 | 0 | 0 | 0 | 0 | , | 1 | 103 | 39 | 95 | 1,017 | 130 | 556 | 183 | 523 | 507 | 202 | 6 | 1 | , | 0 | 32 | 574 | 4,316 | - | 0 | 0 | 2 | , | 1 | 14 | 16 | , | 1 | 1 | 1 | 1 | 1 | ${ }_{8,31}$ |
| 1.59 C Copans Red. | 27 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 6 | 8 | 331 | 57 | 358 | 179 | 198 | 314 | 645 | 17 | 338 | 1 | 7 | 0 | 8 | 4,612 | 0 | 0 | 0 | 1 | 1 | 1 | 39 | 18 | 7 | 1 | 2 | 1 | 0 | 1 | 7,155 |
| 1.95 ¢ Alanicichd. | 28 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 1 | 1 | 872 | 128 | 616 | 123 | 526 | 388 | 689 | 9 | 256 | 4 | 277 | 16 | 0 | 4,102 | 0 | 0 | 0 | 2 | 1 | 7 | 146 | 75 | 64 | 17 | 14 | 1 | 0 | 1 | 8,34 |
| $1.95 ¢$ ¢ Sof Atalanic Evo. | 29 | 3 | 1 | 0 |  | 2 | 6 | 0 | 0 | 0 | 0 | - | 9 | 52 | 28 | 49 | 2,382 | 278 | 1,486 | 644 | 1,042 | 1,382 | 1,750 | 19 | 1,468 | 19 | 1,856 | 3,461 | 4,350 | , | 1 | 0 | 0 | 3 | 1 | 67 | 393 | 342 | 18 | 62 | 57 | 3 | 10 | 10 | 21,25 |
|  | 30 | 4 | 5 | 0 | 10 | 12 | 26 | 0 | ${ }^{38}$ | 14 | 0 | 0 | 2 | 28 | 27 | 16 | 20 | 3 | 25 | 3 | 47 | 13 | 1 | 4 | 113 | 1 | 1 | 1 | 1 | 7 | 0 | 0 | 346 | 3 | 2 | 19 | 12 | 15 | - | 39 | 1 | 15 | 260 | 1 | 1,143 |
|  | 31 | 0 | 1 | 0 | 1 | 2 | 4 | 0 |  | 2 | 0 | 0 | 23 | 5 | 44 | 55 | 1 | 0 | 1 | 0 |  | 1 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 46 | 0 | 0 | 1 | 1 | 1 | 1 | 3 | 0 | 1 | 17 | 0 | 233 |
| Powe inie ed. 5.0 of sw wions st. | 32 | 52 | 77 | - | 108 | 109 | 60 | $\bigcirc$ | 31 | 11 | 0 | - | , | ${ }^{\circ}$ | 143 | 212 | - | , | 0 | 1 | , | 1 | , | 0 | 0 | 0 | 0 | 1 | 1 | - | 97 | 45 | 0 | 1 | , | 1 | 0 | 1 | , | , | 1 | 388 | 3,149 | 15 | 4.521 |
| sw3oth Ave. 5. of sw 10.tst. | 33 | 0 | 1 | 0 | 1 | 1 | 1 | 0 | 12 | 4 | 0 | 0 | 3 | 3 | 6 | 14 | 4 | 1 | 2 | , | 4 | 3 | 1 | 1 | 13 | 1 | 1 | 1 | 1 | 3 | 1 | 0 | 0 | 0 | 76 | 3 | 2 | 1 | 1 | 12 | 3 | 2 | 48 | 15 | 246 |
| swzst Ave. S. . of sw 10atst. | 34 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 4 | 0 | 0 |  | 5 | 12 | 27 | 104 | 4 | 7 | 7 | 10 | 8 | 2 | 3 | 68 | 2 | 1 | 2 | 2 | 5 | 1 | 0 | 1 | 99 | 0 | 9 | 6 | 2 | 2 | 51 | 5 | 3 | 92 | 5 | 568 |
|  | 35 | 4 | 5 | 0 | 8 | 8 | 8 | 0 | 11 | 4 | 0 | 0 | 1 | 4 | 41 | 30 | 225 | 43 | 161 | 69 | 298 | 92 | 2 | 58 | 411 | 7 | 1 | 1 | 9 | 80 | 3 | 0 | 1 | 4 | 2 | 0 | 269 | 232 | 67 | 2,053 | 148 | 5 | 50 | 17 | 4,431 |
|  | 36 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  | 1 | 0 | 5 | 2 | 1 | 10 | 11 | 20 | 4 | 14 | 8 | 7 | 16 | 2 |  | ${ }^{132}$ | 7 | 8 | 25 | 26 | 69 | 1 | 0 | 0 | 1 | 1 | 27 | 0 | 2 | 2 | 13 | 2 | 1 | - | 2 | ${ }^{427}$ |
|  | 37 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 5 | 0 | 0 | 8 | 14 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 58 | 25 | 3 | 18 | 42 | 127 | 0 | 0 | 0 | 3 | 0 | 34 | 9 | 0 | 1 | 0 | 3 | 0 | 0 |  | ${ }_{3} 35$ |
| Intemal one at Newoort Center | 38 | 0 | - | 0 | 0 | 0 | 0 | 0 | , | 1 | 0 | , | 0 | 0 | 2 | 0 | , | 1 | 1 | 1 | 1 | 1 | 1 | 0 | , | 1 | 3 | 2 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | ${ }^{26}$ |
| Miltart trail N . ofsw Ioth st. | 39 | 0 | 1 | 0 | 1 | - | 0 | 0 | 7 | 3 | 0 | 0 | 5 | 2 | 248 | 587 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 10 | 281 | 79 | 1 | 3 | 12 | 35 | 16 | 2 | 0 | ${ }^{53}$ | 11 | 1,583 | 156 | 1 | 1 | 0 | 12 | 1 | 1 | 43 | 3,64 |
| Esator. . . ofsw 1 10 th St. | 40 | 0 | 0 | , | 0 | 0 | 0 | 0 | 10 | 4 | 0 | 0 |  | 3 | , | 2 | 1 | 1 | 1 | 2 |  | 1 | 2 |  | 102 | 23 | 1 | 7 | 32 | 124 | 0 | 0 | 1 | 5 |  | 227 | 12 | 10 | 4 | 19 | 0 | 2 | 1 |  | 610 |
| West O . E. . of Poweverine ed. | 41 | 10 | 20 | 0 | 22 | 24 | 3 | 0 | 60 | 22 | 0 | 0 | 5 | 15 | 61 | 75 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 1 | 2 | 8 | 2 | 1 | 306 | 3 | 1 | 12 | 2 | 1 | 1 | 1 | 2 | 0 | 103 | 6 | ${ }^{783}$ |
| Powefine Rd. .o. fo west or. | 42 | 13 | 16 | 0 | 22 | 6 | 2 | 0 | 39 | 14 | 0 | - | 2 | 7 | 33 | 464 | - | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 3 | 0 | 1 | 1 | 1 | 3 | 22 | 3 | 3,292 | 18 | 11 | 127 | 1 | 1 | 1 | 1 | 1 | 131 | 0 | 106 | 4,435 |
| Intenal 2 one a Powerine | 43 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 5 | 2 | 0 | 0 | 0 | 1 | 2 | 3 | 1 | 1 | 0 | 1 | 1 | 1 | 0 | 0 | 4 | 0 | 0 | 0 | 1 | 7 | 0 | 0 | 5 |  | 0 | 12 | 0 | 0 | 0 | 3 | 1 | 3 | 59 | 0 | 117 |
| Total |  | 10,29 | 3,97 | 0 | 3,586 | 3,74 | 6,937 | 0 | 5.83 | 5,953 | 3,30 | 18,353 | 3,80 | 4.14 | 3,254 | 13,688 | ${ }_{\text {18,32 }}$ | 4,55 | 10,30 | 5.067 | 6,30 | 6.007 | 6.596 | 1.056 | 7,121 | 1,230 | 4,499 | 5,99 | 8,81 | ${ }^{22,367}$ | 24 | 82 | 5,75 | ${ }^{42}$ | 173 | 3,35 | 2,388 | ${ }^{1,23}$ | 590 | 3,61 | 352 | 1.041 | 5,926 | 361 | 220,54 |


|  |  |  |  |  |  |  | 皆 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | zonet | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 |  |
| TerN. of flakeoroth Rd. | 1 | 0 | 2,866 | 0 | 1,397 | 828 | 482 | 0 | 181 | 125 | 0 | 1,544 | 75 | 245 | 249 | 2,269 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 3 | 4 | 0 | 56 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 8 | 11 | 0 | 10,353 |
| TkR Lateworth Rd. | 2 | 1,510 | 0 | 0 | 137 | 177 | 481 | 0 | 234 | 82 | 0 | 301 | 61 | 156 | 119 | 404 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 4 | 0 | 1 | 1 | 1 | 1 | 5 | 1 | 82 | 0 | 0 | 8 | 0 | 0 | 0 | 1 | 0 | 15 | ${ }^{13}$ | 1 | 3,966 |
| Tree Hypluxe Eld. | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Tree Bopton Beach buc | 4 | 1,187 | 112 | 0 | 0 | 5 | 563 | 0 | 243 | 80 | 0 | 40 | 73 | 238 | 151 | 409 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 5 | 0 | 0 | 0 | 0 | 2 | 9 | 1 | 115 | 0 | 0 | 12 | 0 | 0 | 0 | 1 | 0 | 16 | 17 | 1 | 3,584 |
| Trie Atanticave. | 5 | 1,239 | 257 | 0 | 6 | 0 | 78 | 0 | 429 | 63 | 0 | 258 | 70 | 453 | 220 | 442 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 4 | 1 | 1 | 1 | 1 | 2 | 11 | 2 | 114 | 1 | 0 | 13 | 0 | 0 | 0 | 0 | 0 | 18 | 5 | 1 | 3,688 |
| Toke Gide ed. | 6 | 634 | 597 | 0 | 1.029 | ${ }^{133}$ | 0 | 0 | ${ }^{35}$ | 421 | 0 | 3,327 | 1 | 4 | 150 | 478 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 1 | 1 | 5 | ${ }^{23}$ | 4 | ${ }^{63}$ | 1 | 0 | 13 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 6,927 |
| TrNe Bra | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Tree Smple Rd. | 8 | 279 | 517 | 0 | 562 | 348 | 23 | 0 | 0 | 2 | 0 | 3,650 | 3 | 9 | 8 | 10 | 5 | 4 | 4 | 16 | 10 | 8 | 15 | 3 | 6 | 4 | 0 | 0 | 0 | 0 | 30 | 6 | 29 | 5 | 8 | 16 | 3 | 2 | 2 | 6 | 9 | 39 | 27 | 4 | 5.576 |
| TPke Cosunut creek $\mathrm{P}^{\text {a }}$ | 9 | 296 | 350 | 0 | 422 | 152 | 560 | 0 | 1 | 0 | 0 | 2,139 | 36 | 4 | 378 | 1,477 | 73 | 2 | 2 | 6 | 4 | 3 | 5 | 1 | 2 | 1 | 0 | 0 | 0 | 0 | 11 | 2 | 10 | 2 | 3 | 6 | 1 | 1 | 1 | 2 | 3 | 14 | 10 | 2 | 5,999 |
| Tree Altanit Elvd. | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3,369 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3,369 |
| Trss.of Atanaicic ivd. | 11 | 2,453 | 730 | 0 | 958 | 652 | 1,884 | 0 | 3,448 | 1,230 | 2,511 | 0 | 1,880 | 1,208 | 318 | 50 | 868 | 14 | 14 | 29 | ${ }^{38}$ | 29 | 7 | 2 | 27 | 2 | 0 | 0 | 0 | 0 | 13 | 3 | ${ }^{13}$ | 2 | 4 | 7 | 9 | 8 | 2 | 3 | 4 | 18 | 12 | 2 | 18,37 |
|  | 12 | 93 | 72 | 0 | 112 | 47 | 1 | 0 | 9 | 15 | 0 | 1,270 | 0 | 2 | 543 | 1,510 | 21 | 1 | 1 | 2 | 7 | 1 | 1 | 2 | 24 | 1 | 1 | 2 | 1 | 7 | 2 | ${ }^{23}$ | 3 | 1 | 5 | 2 | 3 | 1 | 1 | 5 | 1 | 3 | 2 | 0 | 3,800 |
| Suwgass Rpy © Us $441 /$ /SR7 | 13 | 202 | 145 | 0 | 250 | 147 | 3 | 0 | 24 | 8 | 0 | 7 | 3 | 0 | 324 | 2,393 | 230 | 4 | 2 | 5 | 16 | 13 | 3 | 1 | 138 | 1 | 95 | 2 | 2 | 47 | 25 | 5 | 8 | 1 | 4 | 6 | 2 | 1 | 1 | 2 | 4 | 11 | 5 | 1 | 4,120 |
| Sawgas Expy Univestity or. | 14 | 259 | 112 | 0 | 201 | 137 | 2 | 0 | 20 | 169 | 0 | 6 | 164 | 63 | 0 | 810 | 222 | 10 | 32 | 20 | 65 | 30 | 2 | 11 | 202 | 4 | 36 | 6 | 2 | 25 | 24 | 45 | 151 | 3 | 11 | 64 | 16 | 13 | 2 | 234 | 3 | 45 | 26 | 2 | 3,322 |
| Suwgassexpy W.of funivesity | 15 | 1,954 | 289 | 0 | 513 | 245 | 9 | 0 | 18 | 921 | 0 | 7 | 1,998 | 3,131 | 1,099 | 0 | 759 | 30 | 96 | 70 | 80 | 371 | 2 | 26 | 451 | 10 | 88 | 8 | 2 | 45 | 14 | 58 | 227 | 7 | 25 | 48 | 19 | 24 | 1 | 560 | 3 | 55 | 375 | 3 | 13,63 |
|  | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 75 | 0 | 1,314 | 29 | 83 | 368 | 794 | 0 | 1,518 | 3,085 | 1,439 | 2,049 | 2,106 | 1,156 | 0 | 159 | 47 | 775 | 283 | 851 | 1,79 | 13 | 1 | 0 | 1 | 62 | 134 | 16 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 18,48 |
| ${ }^{1.95 ¢}$ Pemisisula Cor. P . | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 4 | 0 | 80 | 2 | 5 | 41 | 73 | 3,915 | 0 | 57 | 79 | 86 | 182 | 135 | 1 | 22 | 8 | 96 | 47 | 122 | 202 | 2 | 0 | 0 | 0 |  | 25 | 3 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 5.202 |
| ${ }^{1.585}$ Pramato Rd. | 18 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 3 | 0 | 5 | 0 | 1 | 84 | 234 | 4,242 | 8 | 0 | 533 | 176 | 427 | 541 | 1 | 62 | ${ }^{43}$ | 456 | 328 | 647 | 1,195 | 18 | 1 | 0 | 1 | 4 | 103 | 12 | 1 | 1 | 1 | , | 1 | 0 | 0 | 9,142 |
| 1.95 ¢ Spansis River | 19 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 14 | 4 | 0 | 0 | 1 | 1 | 41 | 108 | 2,674 | 63 | 140 | 0 | 3 | 425 | 157 | 1 | 10 | 12 | 165 | 180 | 142 | 568 | 2 | 0 | 1 | 1 | 5 | 48 | 7 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4,779 |
|  | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 13 | 4 | 0 | 27 | 2 | 34 | 1 | 11 | 3,058 | 84 | 306 | 4 | 0 | 37 | 608 | 1 | 161 | 82 | 493 | 209 | 636 | 963 | 39 | 3 | 1 | 1 |  | 219 | 7 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 7.006 |
| 1.58 P Palmeto Park Rd. | 21 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 | 4 | 0 | 36 | 0 | 113 | ${ }^{33}$ | 120 | 1,860 | 150 | 527 | 276 | 71 | 0 | 250 | 1 | 49 | 40 | 429 | 297 | 420 | 1,145 | 10 | 1 | 0 | 1 | 5 | 60 | 15 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 5,932 |
| ${ }^{1.955}$ ¢ Hillsboro Evx. | 22 | 1 | 1 | 0 | 1 | 2 | 1 | 0 | 20 | 6 | 0 | 0 | 1 | 2 | 2 | 2 | 1,527 | 162 | 562 | 178 | 405 | 556 | 0 | 1 | 2 | 2 | 226 | 807 | 990 | 1,920 | 1 | 0 | 1 | 1 | 2 | 1 | 3 | 1 | 1 | 1 | 2 | 1 | 1 | 0 | 7,338 |
| Natura Bv. N. . ofsw loth st. | 23 | 2 | 2 | 0 | 5 | 3 | 0 | , | 10 | ${ }^{3}$ |  | 347 | 1 | 5 | 76 | 163 | 11 | 2 | 3 | 3 | 8 | 20 | 2 | 0 | 688 | 445 | 17 | 59 | 37 | 59 | 7 | 1 | 0 | 1 | 5 | 93 | 7 | 5 | 1 | 17 | 4 | 1 | 1 | 0 | 2,113 |
| Sw 1oth St. . .of. 1.95 | 24 | 7 | 10 | 0 | 17 | 8 | 0 | 0 | 9 | 3 | 0 | 463 | 17 | 123 | 224 | 529 | 160 | 14 | ${ }^{21}$ | 3 | 74 | 56 | 2 | 436 | , | 340 | 1 | 446 | 388 | 1,699 | 79 | 7 | 0 | 4 | 42 | 254 | 112 | 48 | 1 | 183 | 73 | 2 | 2 | 3 | 5,63 |
| Natura Bud. S. ofsw 10.hst. | 25 | 1 | 1 | 0 | 2 | 1 | 0 | 0 | 12 | 4 | 0 | 14 | 1 | 2 | 5 | 14 | 106 | 14 | 31 | 8 | 46 | 70 | 3 | 302 | 759 | 0 | 2 | 2 | 13 | 48 | 2 | 0 | 0 | 0 | 2 | 9 | 12 | 44 | 1 | 112 | 36 | 1 | 1 | 0 | 1.680 |
| 1.59 ¢ Smple Re. | 26 | 0 | 1 | , | 1 | , | 1 | 0 | 0 | 0 | 0 |  | , | 77 | 76 | 251 | 667 | 32 | 114 | 112 | 243 | 414 | 509 | 59 | 32 | 1 | 0 | 14 | 614 | 3,146 | 0 | 0 | 0 | - | , | 1 | 7 | 3 | , | 1 | 1 | 1 | 0 | - | 6,384 |
| ${ }^{1.55}$ C Copans Sd d. | 27 | 0 | 1 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 5 | 4 | 21 | 16 | 588 | 9 | 36 | 127 | 49 | 123 | 644 | 64 | 527 | 3 | 22 | - | 21 | 3,490 | 0 | 0 | 0 | 0 | 1 | 1 | 19 | ${ }^{13}$ | 1 | 2 | 4 | 1 | 0 | 0 | 5,795 |
| 1.95 ¢ Alanicichd. | 28 | 1 | 1 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 1 | 2 | 1,959 | 43 | 71 | 137 | 5 | 137 | 425 | 36 | 299 | 15 | 395 | 4 | 0 | 3,983 | 1 | 0 | 1 | 0 | 1 | 5 | 20 | 31 | 1 | 7 | 21 | 1 | 1 | 1 | 7,609 |
| $1.95 ¢$ ¢ Sof Atalanic Evo. | 29 | 25 | 11 | 0 | 20 | 12 | 25 | 0 | 0 | 0 | 0 | - | 14 | 61 | 163 | 159 | 3,145 | 90 | 213 | 565 | 1,649 | 1,453 | 1,675 | 103 | 1,721 | 53 | 3,824 | 2,736 | 5,292 | 0 | 5 | 0 | 0 | 1 |  | 57 | 68 | 121 | 1 | 27 | 103 | 5 | 2 | 6 | 23,40 |
| Watemay Eld. S. Sof sw 1oth 5 St. | 30 | 4 | 4 | 0 | 7 | 13 | 15 | 0 | 39 | 12 | 0 | 0 | 13 | 6 | 8 | 8 | 9 | 1 | 6 | 2 | 15 | 5 | 1 | 1 | ${ }^{33}$ | 1 | 1 | 0 | 1 | 2 | 0 | 7 | 234 | 1 | 2 | 12 | 3 | 1 | - | 35 | 1 | 4 | 40 | 0 | 547 |
|  | 31 | 1 | 3 | 0 | 5 | 4 | 4 | 0 | 18 | 6 | 0 | 0 | 1 | 2 | 4 | 3 | 1 | 0 | 1 | 1 | 2 | 1 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 110 | 0 | 1 | 1 | 0 | 0 | 0 | 5 | 0 | 1 | 5 | 0 | 187 |
| Powe inie ed. 5.0 of sw wions st. | 32 | 182 | 303 | - | 489 | 305 | 121 | 0 | 25 | 8 | 0 | - | , | 5 | 194 | 324 | 1 | 0 | 0 | 1 | , |  | , | 0 | , | , | 0 | 0 | 0 | - | 349 | 54 | , | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 254 | 3,001 | - | 5.527 |
| Sw3oth Ave S. . of sw Ioth St. | 33 | 3 | 4 | 0 | 4 | 6 | 4 | 0 | 44 | 14 | 0 | 0 | 3 | 11 | 11 | 27 | 51 | 2 | 9 | 17 | 6 | 12 | 3 | 3 | 66 | 3 | 2 | 2 | 2 | 3 | 4 | 1 | 2 | 0 | 116 | 8 | 3 | 5 | 1 | ${ }^{65}$ | 7 | 3 | 22 | 1 | 552 |
| swzst Ave. S. . of sw 10atst. | 34 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 14 | 5 | 0 | 0 | 3 | 10 | 11 | 26 | 30 | 1 | 2 | 4 | 4 | 4 | 2 | 1 | 13 | 1 | 1 | 1 | 2 | 2 | 3 | 1 | 1 | 70 | 0 | 5 | 2 | 1 | 1 | 21 | 6 | 2 | 20 | 1 | 274 |
|  | 35 | 1 | 2 | 0 | 3 | 2 | 1 | 0 | 8 | 3 | 0 | , | 3 |  | 39 | 92 | 237 | 15 | 60 | 49 | 95 | 70 | 2 | 38 | 369 | 4 | 1 | 1 | 8 | 63 | - | 1 | 1 | 1 | 3 | 0 | 47 | 59 | 0 | 1,571 | 250 | 4 | 46 | 5 | 3,162 |
|  | 36 | 1 | 2 | 0 | 3 | 2 | - | 0 | - | 2 | 0 | 166 | 8 | 30 | 78 | 159 | 118 | 7 | 29 | 27 | 15 | 59 | 4 | 11 | 355 | 41 | 10 | 30 | 129 | 264 | 13 | 1 | 1 | 1 | 6 | 244 | 0 | 11 | 1 | 149 | 13 | 2 | 1 | 0 | 1,997 |
|  | 37 | 1 | 3 | 0 | 3 | 1 | 0 | 0 | 10 | 3 | 0 | 130 | 1 | 5 | 5 | 30 | 2 | 1 | 2 | 6 | 4 | 3 | 6 | 7 | 144 | 29 | 9 | 12 | 57 | 200 | 13 | 1 | 1 | 1 | 2 | 183 | 3 | 0 | 1 | 1 | 9 | 1 | 1 | - | 380 |
| Intemal one at Newoort Center | 38 | 1 | , | 0 | 2 | 1 | 0 | 0 | 8 |  | 0 | 110 |  | 16 | 9 | 34 | 2 | 1 | 1 |  | 3 | 3 | 5 | 1 | 67 | 1 | 3 | 4 | 42 | 9 | 7 | 0 | 1 | 0 |  | 46 | 2 | 1 | 0 | 1 | 3 | 1 | 1 | 0 | 397 |
| Miltay trail N . ofsw 10 n St | 39 | 2 | 4 | 0 | 4 | , | 0 | 0 | 11 | 4 | - | 0 | 1 | 52 | 307 | ${ }^{837}$ | 1 | 0 | 1 | 2 | 1 | 1 | 2 | 22 | 509 | 67 | 1 | 1 | 25 | 67 | 48 | 4 | 1 | 7 | 55 | 2,216 | 25 | 0 | 0 | 0 | 14 | 1 | 1 | 3 | 4,29 |
| Esator. . . ofsw 1 10 th St. | 40 | 0 | 0 | , | 0 | 1 | 0 | 0 | 16 | 5 | - | 0 | 1 | 3 | 3 | 4 | 1 | 1 | 1 | 3 | 2 | 1 | 2 | 2 | 63 | 12 | 2 | 2 | 21 | 65 | 1 | 0 | 1 | 2 | 5 | 168 | 4 | 6 | 1 | 8 | 0 | 2 | 1 | 1 | 414 |
| West O . E. . of Poweverine ed. | 41 | 21 | 30 | 0 | 51 | 29 | 3 | 0 | 49 | 15 | 0 | 0 | 4 | 15 | 54 | 75 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 4 | 1 | 1 | 1 | 1 | 2 | 10 | 1 | 314 | 1 | 2 | 5 | 1 | 0 | 0 | 1 | 1 | 0 | 235 | 3 | 934 |
| Powefine Rd. .o. fo west or. | 42 | 12 | 18 | 0 | 24 | 7 | 2 | 0 | 29 | 9 | 0 | 0 | 1 | 3 | 326 | 1,470 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 2 | 24 | 2 | 0 | 0 | 0 | 8 | 191 | 15 | 2,776 | 19 | 69 | 65 | 4 | 0 | 0 | 1 | 1 | 183 | 0 | 53 | 5.318 |
| Intenal 2 one a Powerine | 43 | 3 | 4 | 0 | 7 | 4 | 1 | 0 | 20 | 6 | 0 | 0 | 1 | 3 | 3 | 2 | 17 | 1 | 6 | 2 | 9 | 7 | 2 | 2 | 46 | 1 | 1 | 1 | 1 | 10 | 1 | 0 | 21 | \% | 5 | 30 | 3 | 2 | 1 | 45 | 2 | 6 | 108 | 0 | 335 |
| Total |  | ${ }^{10,34}$ | 6,454 | 0 | 6,238 | 3,278 | 4.170 | 0 | 5.053 | 3,30 | 2.51 | 18,909 | 4,778 | 6,189 | 5,51 | 15,788 | 26.50 | 2284 | 5.38 | 3,731 | 5.220 | 6,26 | 6.176 | 1,47 | 7,058 | 1.27 | 7,157 | 5.888 | 10,473 | 21,30] | 1,000 | 29 | 4,391 | 146 | 473 | 4,95 | 461 | 407 | 29 | 3,071 | 585 | 722 | 3,97 | 106 | 22,980 |


|  |  | iz |  |  |  |  | 单 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | zonet | 1 | 2 | 3 | - | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 |  |
| Tern. of fateworth Rd. | 1 | 0 | 1,715 | 0 | ${ }^{1,681}$ | 844 | 878 | 0 | 469 | 736 | 0 | 8,610 | 381 | 613 | 425 | 1,998 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 6 | 0 | 2 | 2 | 2 | 491 | 6 | 1 | 188 | 12 | 1 | 9 | 5 | 6 | 1 | 8 | 0 | 6 | 29 | 4 | ${ }^{19,136}$ |
| TRe Lateworth Re. | 2 | 1,716 | 0 | 0 | ${ }^{85}$ | 138 | 559 | 0 | 387 | 324 | 0 | 1,052 | 151 | 160 | 111 | 160 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 6 | 0 | 3 | 3 | 3 | ${ }^{82}$ | 9 | 2 | 249 | 20 | 1 | 14 | 11 | 16 | 3 | 17 | 0 | 7 | 30 | 4 | 5.325 |
| Tree Hypluse Elvad. | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Tre Boymon Eeach Blud. | 4 | 1,685 | 83 | 0 | 0 | 3 | 673 | 0 | 274 | 326 | 0 | 828 | 170 | 176 | 137 | 190 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 5 | 0 | 1 | 1 | 1 | 108 | 5 | 1 | 194 | 13 | 1 | 11 | 9 | 12 | 2 | 10 | 0 | 7 | 27 | 6 | 4,961 |
| Tree etanicave. | 5 | 849 | 136 | 0 | 3 | 0 | 107 | 0 | 365 | 301 | 0 | 1,095 | 211 | 296 | 171 | 177 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 4 | 0 | 3 | 2 | 3 | 96 | 16 | 2 | 218 | 15 | 1 | 14 | 8 | 10 | 2 | 6 | 0 | 6 | 10 | 5 | 4,34 |
| TPke Glade ed. | 6 | 892 | 556 | 0 | 671 | 104 | 0 | 0 | 13 | 420 | 0 | 1,520 | 0 | 1 | 26 | 50 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 1 | 1 | 125 | 15 | 2 | 87 | 6 | 1 | 7 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4.506 |
| Tree Bta | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Tree Smple ed. | 8 | 476 | 384 | 0 | 273 | 354 | 13 | 0 | 0 | 2 | 0 | 1.876 | 0 | 0 | 0 | , | 5 | 4 | 7 | 7 | 5 | 7 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 1 | 2 | 11 | 3 | 2 | 3 | 4 | 2 | 3 | 2 | 1 | 2 | 2 | 3,455 |
| TPke cocunut Creer Patusay | 9 | 746 | 322 | 0 | 324 | 292 | 422 | 0 | 2 | 0 | 0 | 2.526 | 112 | 0 | 27 | 45 | ${ }^{373}$ | 3 | 4 | 4 | 3 | 5 | 5 | 0 | - | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 1 | 7 | 2 | 1 | 2 | 3 | 2 | 2 | 1 | 0 | 1 | 1 | 5.24 |
| Tree Alanicie ind. | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4,507 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4,507 |
| Tres.of Atanatic ind. | 11 | 8.683 | 1,041 | 0 | 821 | 1,057 | 1,521 | 0 | 1,871 | 2,523 | 4,505 | 0 | 365 | 97 | 30 | 2 | 3,816 | 47 | 6 | 6 | 4 | 6 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 1 | 2 | 10 | 2 | 1 | 132 | 176 | 42 | 3 | 2 | 1 | 2 | 2 | 26,784 |
| Suggas Expy © Luos Rd. | 12 | 379 | 147 | 0 | 166 | 201 | 0 | 0 | 0 | 111 | 0 | 363 | 0 | 1 | 150 | 238 | 156 | 7 | 12 | 6 | ${ }^{35}$ | 1 | 1 | 0 | 6 | 0 | 1 | 16 | 1 | 137 | 49 | 2 | 4 | 6 | 6 | 1 | 17 | 13 | 1 | 20 | 0 | 0 | 0 | 0 | 2.250 |
| Suwgas Sppy us 441/SR7 | 13 | 623 | 159 | 0 | 175 | 287 | 1 | 0 | 0 | 0 | 0 | 98 | 1 | 0 | 414 | 2,991 | 890 | 23 | 67 | 19 | 28 | 132 | 2 | 1 | 32 | 0 | 155 | 1 | 1 | 184 | 78 | 2 | 1 | 3 | 2 | 1 | 19 | 24 | 6 | 38 | 1 | 0 | 0 | 0 | 6,400 |
| Suwgas Sppy Univesity or. | 14 | 419 | 107 | 0 | 132 | 161 | 25 | 0 | 0 | 27 | 0 | 29 | 147 | 403 | 0 | 978 | 633 | 27 | 88 | 43 | 133 | 132 | 1 | 1 | 19 | 0 | 117 | 11 | 1 | 338 | 19 | 3 | 35 | 15 | 9 | 11 | 48 | 98 | 2 | 292 | 1 | 1 | 24 | 1 | 4,532 |
| Suggass Expy W. of Univestity or. | 15 | 2,021 | 159 | 0 | 189 | 171 | 50 | 0 | 0 | 45 | 0 | 2 | 239 | 2,992 | 976 | 0 | 1,101 | 34 | 151 | 95 | 174 | 428 | 1 | 2 | 32 | 0 | ${ }^{227}$ | 24 | 0 | 193 | 11 | 2 | 11 | 14 | 7 | 3 | 35 | ${ }^{83}$ | 0 | 306 | 0 | 1 | 31 | 1 | 9,812 |
| 1.955 .of feemisula Cop. or. | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 376 | 0 | 3,860 | 183 | 1,025 | 752 | 1,274 | 0 | 2,363 | 7,269 | 4,937 | 7,724 | 6,761 | 4,438 | 0 | 12 | 0 | 1,765 | 1,906 | 3,702 | 14,718 | 156 | 64 | 77 | 3 | 305 | 997 | 36 | 0 | 0 | 2 | 89 | 1 | 2 | 14 | 6,58 |
| $1.95 \pm$ Penisulu Corr. Dr. | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |  | 0 | 45 | 8 | 26 | 33 | 40 | 2,414 | 0 | 112 | 217 | 158 | 309 | 158 | 0 |  | 0 | 174 | 86 | 262 | 929 | 15 | 5 | 2 | 2 | 12 | 79 | 1 | 0 | 0 | 1 | 8 | 1 | 2 |  | 5.08 |
| 1.59 Vemata Rd. | 18 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 4 | 0 | 0 | 12 | 69 | 93 | 155 | 8,578 | 130 | 0 | 736 | 458 | 728 | 490 | 0 | 2 | 0 | 574 | 263 | 423 | 5,108 | 66 | 27 | 3 | 3 | 48 | 320 | 2 | 0 | 0 | 2 | ${ }^{24}$ | 1 | 3 | 4 | 18,335 |
| 1.95 S Sanaish River | 19 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 4 | 0 | 0 | 6 | 19 | 46 | 99 | 4,941 | 214 | 827 | 0 | 1 | 614 | 318 | 0 | 1 | 0 | 492 | 329 | 378 | 1,481 | 33 | 5 | 3 | 15 | 20 | 212 | 7 | 0 | 0 | 2 | 11 | 1 | 3 | 3 | 10,033 |
|  | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 3 | 0 | 0 | 41 | 32 | 158 | 200 | 7,857 | 158 | 523 | 1 | 0 | 249 | 1,431 | 1 | 12 | 1 | 2,247 | 991 | 1,880 | 3,061 | 231 | 81 | 2 | 16 | 43 | 942 | 7 | 0 | 0 | 2 | 22 | 1 | 2 | 11 | 1,813 |
| 1.59 Peameto Park kd. | 21 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 4 | 0 | 0 | 1 | 140 | 144 | 457 | 6,113 | 275 | 738 | 613 | 226 | 0 | 978 | 0 | 4 | 0 | 1.874 | 962 | 1,434 | 2,940 | 159 | 57 | 3 | 11 | 55 | 758 | 15 | 0 | 0 | 2 | 1 | 1 | 3 | 10 | 17,987 |
|  | 22 | 3 | 5 | 0 | 2 |  | 1 | 0 | 6 | 4 | - | 0 | 1 | 1 | 1 | 1 | 3,901 | 136 | 483 | 308 | 1,262 | 932 | 0 | 0 | 0 | 0 | 784 | 1,197 | 1,804 | 4,635 | 5 | 1 | 3 | 3 | 2 | 2 | 0 | 0 | 0 | 2 | 1 | 1 | 3 | 1 | 15,95 |
|  | 23 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 12 | 2 | 7 | 2 | 20 | 12 | 0 | 0 | 2,296 | 242 | 15 | 18 | 23 | 57 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 2,715 |
| Sw 10n St.E. . of. 195 | 24 | 5 | 4 | 0 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 20 | 12 | 20 | 670 | 98 | 136 | 37 | 674 | 261 | 1 | 3,889 | 0 | 2,997 | 120 | 1,073 | 1,009 | 4,103 | 24 | 10 | 0 | 0 | 10 | 111 | 5 | 4 | 0 | ${ }^{48}$ | 7 | 1 | 32 | 2 | 15,095 |
|  | 25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 | 1 | 7 | 5 | 29 | 14 | 0 | 329 | 2,183 | 0 | 0 | 3 | , | 19 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 2.612 |
| 1.159 Sample Rd. | 26 | 2 | 3 | 0 | 1 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 101 | 78 | 149 | 1,527 | 148 | 558 | 470 | 1,951 | 1,758 | 846 | 28 | 132 | 0 | , | 40 | 1,525 | 8,822 | 3 | 0 | 2 | 2 | 1 | 1 | 2 | 3 | 0 | , | 1 | 1 | 2 | 0 | 18,161 |
| 1.59 Copans Sd d. | 27 | 2 | 2 | - | 1 | 2 | 1 | , | 0 | , | 0 | 0 | 12 | 1 | 8 | 18 | 1,816 | 81 | 282 | 346 | 947 | ${ }^{993}$ | 1,422 | 37 | 1,302 | 5 | 53 | 0 | 222 | 10,332 | 3 | 0 | 2 | 2 | 1 | 1 | 5 | 13 | 1 | 10 | 4 | 1 | 2 | 0 | 17,927 |
| 1.95 eatanicickd. | 28 | 2 | 3 | 0 |  | , | 1 | 0 | 0 | 0 | 0 |  | 0 | 1 | 1 | 0 | 3,571 | 249 | 458 | 402 | 1,432 | 1,499 | 2,169 | 47 | 1,240 | 8 | 2.074 | 296 | 0 | 15,192 | 3 | 0 | 2 | 2 | 1 | 31 | 26 | 32 | 9 | 93 | 52 | 1 | 2 | 2 | 2,903 |
| 1.95 © S.of Alanaicis Bu. | 29 | 393 | 64 | 0 | 85 | 73 | 100 | O | 0 | 0 | 0 | 0 | 91 | 118 | 224 | 125 | 12,59 | 782 | 4,006 | 1,399 | 2.629 | 2,727 | 4,942 | 103 | 4,469 | 25 | 10,638 11 | 12,203 | 13,65 | 0 | 117 | 7 | 1 | 31 | 38 | 273 | 52 | 97 |  | 283 | 158 | 22 | 653 | 22 | 7,407 |
|  | 30 | 5 | 7 | 0 | 4 | ${ }^{13}$ | ${ }^{13}$ | 0 | 2 | 1 | 0 | 0 | 33 | ${ }^{53}$ | 13 | 8 | 90 | 8 | ${ }^{43}$ | 21 | 134 | 99 | 4 | 1 | 26 | 0 | 3 | 3 | 3 | 122 | 0 | 2 | 123 | 12 |  | 7 | 18 | 42 | 3 | 120 | 2 | 0 | 4 | 1 | 1.050 |
| Indeanasance or. S. So sfw loth st. | 31 | 1 | 2 | 0 | 1 | 2 | , | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 2 | 1 | 45 | 3 | 21 | 4 | 57 | ${ }^{43}$ | 1 | 0 | 13 | 0 | 1 | 0 | 1 | 9 | 2 | 0 | 115 | 5 | 4 | 2 | 9 | 17 | 5 | 60 | 0 | 0 | 8 | 0 | ${ }_{4} 39$ |
|  | 32 | 209 | 271 | 0 | 211 | 232 | 96 | 0 | 2 | 1 | 0 | 0 | 3 | 1 | 32 | 10 | 58 | 2 | 2 | 2 | 2 | 3 | 3 | 0 | 0 | 0 | 2 | 2 | 2 | 2 | 163 | 126 | 0 | 4 | 2 | 1 | 2 | 3 | 2 | , | 1 | 109 | 4,157 | 57 | 5.78 |
| sw3ot Ave. S. of fsw 10atst. | 33 | 11 | 17 | 0 | 12 | 13 | 5 | , | 7 | 4 | 0 | 0 | 4 | 2 | 11 | 10 | 2 | 1 | 2 | 11 | 10 | 8 | 2 | 0 | 1 | 0 | 2 | 2 | 2 | 35 | 13 | 4 | 3 | 0 | 215 | 2 | 2 | 3 | 1 | 2 | 5 | 4 | 468 | 10 | 907 |
|  | 34 | 1 | 1 | 0 | 1 | 1 | 1 | 0 | 2 | 1 | - | - | 5 | 2 | 8 | 6 | 213 | 8 | 38 | 16 | 30 | 42 | 1 | 1 | 13 | 0 | 1 | 1 | 1 | 47 | 8 | 4 | 2 | 242 | 0 | 5 | 19 | 38 | 5 | 142 | 4 | 2 | 399 |  | 13.30 |
| Miltay Trail 5 . ofsw $10 . \mathrm{St}$ St. | 35 | 20 | 30 | 0 | 23 | 28 | 14 | 0 | 2 | 2 | - | 0 | 2 | 2 | 20 | 5 | 737 | 57 | 266 | 173 | 698 | 607 | 1 | 6 | 151 | 0 | 1 | 1 | 37 | 362 | 17 | 4 | 2 | 4 | 11 | 0 | 230 | 593 | 11 | 3,320 | 191 | 6 | 679 | , | 83,18 |
| Newport Center or. 5.0 of sw 10.ts 5 St. | 36 | 8 | 15 | 0 | 13 | 11 | 6 | 0 | 3 |  | 0 | 131 | 20 | 22 | 57 | 41 | 36 | 1 | 2 | 7 | 7 | 16 | 0 | 0 | 8 | 0 | 4 | 8 | 40 | 90 | 32 | 12 | 3 | , | 26 | 311 | 0 | 5 | 0 | 200 | 6 | 6 | 310 | 2 | ${ }^{1,467}$ |
| Newoort Centere or. . . . ot sw woins st. | 37 | 8 | ${ }^{23}$ | 0 | 18 | 14 | 0 | 0 | 4 | 3 | - | 178 | 15 | 28 | 119 | 99 | 0 | 0 | 0 | 0 | 0 | - | 1 | 0 | 8 | 1 | 6 | ${ }^{21}$ | 51 | 172 | 75 | 24 | 4 | 4 | 55 | 820 | 6 | 0 | 92 | 3 | 45 | 2 | 4 | 7 | 1.910 |
| Intemal one a Newoort Center | 38 | 2 | 5 | - | 4 | 3 | 0 | 0 | 3 | 2 | , | 47 | 1 | 8 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | , | 1 | 0 | 0 | 2 | 16 | 8 | 7 |  | 3 | 3 | 8 | 17 | 0 | 106 | 0 | 2 | 1 | 1 | 2 | 1 | 265 |
|  | 39 | 7 | 15 | 0 | 9 | 5 | 0 | - | 2 | 1 | 0 | 0 | 14 | 27 | 217 | 222 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 56 | 3 | 1 | 10 | 94 | 320 | 129 | 53 | 2 | 2 | 127 | 2,805 | 124 | 2 | 1 | 0 | 849 | 1 | 2 | 14 | 5.123 |
|  | 40 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | - | 0 | 1 | 0 | 0 | 52 | 4 | 16 | , | 13 | 1 | 1 | 0 | 8 | 0 | 1 | 4 | 49 | 167 | 2 | 0 | 1 | 4 | 3 | 152 | 3 | 26 | 1 | 798 | 0 | 0 | 1 | - | 1.320 |
| Westor. . . Of Powemine ed. | 41 | 7 | $\stackrel{8}{ }$ | 0 | 8 | 7 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 2 | 0 | 1 | 1 | 1 | 33 | 0 | 0 | 115 | 5 | 3 | 3 | 5 | 1 | 1 | 1 | 1 | 0 | 2,339 | 6 | 2.556 |
| Powefine Rd. .o.f west 0 or. | 42 | 33 | 34 | 0 | 31 | 10 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | ${ }^{23}$ | 28 | 2 | 2 | 2 | 2 | 2 | 3 | , | 3 | 48 | 1 | 2 | 2 | 2 | 937 | 5 | 9 | 4,299 | 596 | 453 | 367 | 244 | 3 | 2 | 2 | 1 | 2,293 | 0 | 484 | 9,931 |
| Intenal zoneat fowerine | 43 | 4 | 4 | 0 |  | 5 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 11 | 1 | 4 | 3 | 8 | 8 | 1 | 0 | 3 | 0 | 0 | 0 | 2 | 29 | 1 | 0 | 55 | 12 | 1 | 2 | 1 | 5 | 0 | 16 | 0 | 6 | 453 | 0 | 648 |
| Total |  | 19,212 | 5.32 | 0 | 4,95 | 4003 | 4,933 | 0 | 3,456 | 5,24 | 4,505 | 26,78 | 22,37 | 6.442 | 4,526 | 9,800 | 62,31 | 4,80 | 17,038 | 9,903 | 18,85 | 18,39 | 17,29 | 4,453 | ${ }^{12,102}$ | 2,986 | 21,38 | 19,455 | 26.36 | 75,882 | 1.886 | 52 | 5.819 | 1,119 | 1.486 | 8,29 | 1,116 | 1,40 | 202 | 5,823 | 1.992 | 2,93 | 9,92 | 63 | 453,304 |


|  |  |  |  |  |  |  |  |  | 虽 |  |  | $\begin{aligned} & \text { 咅 } \end{aligned}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Toat |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | zonet | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 |  |
| N.oflateonoth Rd. | 1 | 0 | 9,172 | 0 | 5,722 | 5,988 | 3,314 | 0 | 934 | 3,019 | 0 | 22,700 | 953 | 1,125 | 1,190 | 7,642 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 5 | 49 | 3 | 6 | 6 | 6 | 444 | 40 | 13 | 993 | 27 | 3 | ${ }^{42}$ | 10 | 7 | 4 | 14 | 1 | 67 | 282 | 12 | 63,18 |
| pre alemowthed. | 2 | 9,172 | 0 | 0 | 1,057 | 1,345 | 1,780 | 0 | 2,028 | 135 | 0 | 1,425 | 459 | 1,146 | 380 | 507 | 0 | 0 | 0 | 0 | 0 | 0 | 36 | 15 | 92 | 4 | 26 | 24 | 24 | 189 | 57 | 22 | 547 | 38 | 7 | 26 | 14 | 16 | 8 | 16 | 5 | 52 | 173 | 23 | 20,86 |
| Tree mpluse ivd. | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TPke Bommon Eeashme | 4 | 5,723 | 1,057 | 0 | 0 | 39 | 2,982 | 0 | 1,043 | 1,319 | 0 | 3,174 | 531 | 793 | 508 | 781 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 7 | 74 | 3 | 8 | 8 | 8 | 120 | 48 | 26 | 1,490 | 40 | 4 | 61 | 14 | 17 | 10 | 21 | 1 | 83 | 231 | 21 | 20.36 |
| Treatanaicave. | 5 | 5,500 | 1,342 | 0 | 39 | 0 | 513 | 0 | 1,008 | 1,161 | 0 | 2,832 | 368 | 820 | 615 | 830 | 0 | 0 | 0 | 0 | 0 | 0 | 15 | 7 | 55 | ${ }^{3}$ | 11 | 11 | 11 | ${ }^{2}$ | 12 | 2 | 1,146 | 33 | 5 | 5 | 11 | 7 | 6 | 11 |  | ${ }^{71}$ | 77 | 14 | 16,6e |
| Pke clase fa | 6 | 3,323 | 1.777 | 0 | 2,977 | 512 | 0 | 0 | 69 | 2,716 | 0 | 10,265 | 6 | 9 | 155 | 357 | 0 | 0 | 0 | 0 | 0 | 0 | 12 | 2 | 8 | 1 | 9 | 8 | 9 | 123 | 119 | 24 | 528 | 24 | 3 | 18 | 5 | 1 | 1 | 1 | 1 | 5 | 9 | 4 | ${ }^{23,079}$ |
| Tree Exta | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $\bigcirc$ |
| Trke Smple Red. | 8 | 938 | 2.031 | 0 | 1,045 | 1,012 | 69 | 0 | 0 | 9 | 0 | 0, 274 | 19 | 31 | 30 | 60 | 5 | 7 | 6 | 18 | 11 | 10 | 17 | 3 | 4 | 2 | 0 | 0 | 0 | 0 | 11 | 4 | 13 | 4 | 8 | 3 | 2 |  |  | 4 | 5 | 8 | 12 | 5 | 15,866 |
| Pke Coconut creek | 9 | 3,030 | 135 | 0 | 1,318 | 1,162 | 2,727 | 0 | 9 | 0 | 0 | 8,500 | 168 | 27 | 804 | 2,109 | 88 | 5 | 4 | 13 | 8 | 7 | 12 | 2 | 3 | 1 | 0 | 0 | 0 | 0 | 10 | 4 | 9 | 5 | 6 | 2 | 2 |  | 2 | ${ }^{3}$ |  | 5 | 10 | 4 | 20,198 |
| Tree Alanicitave. | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11,082 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11,082 |
| Tres. offataniticidud. | 11 | 22,88 | 1,443 | 0 | 3,159 | 2,824 | 10,249 | 0 | 10,27 | 8,4991 | 11,082 | 0 | 5,055 | 1,586 | 407 | 20 | 5,845 | 447 | 743 | 619 | 451 | 870 | 12 | 176 | 2,604 | 31 | 0 | 0 | 0 | 0 | 11 | 4 | 9 | 7 | 5 | 22 | 262 | 370 | 196 | 912 | 40 | 6 | 11 | 4 | 90,96 |
|  | 12 | 927 | 449 | 0 | 519 | 359 | 6 | 0 | 19 | 166 | 0 | 5,081 | 0 | 11 | 914 | 5,562 | 463 | 21 | 38 | 37 | 74 | 3 | 5 | 14 | 146 | 6 | 3 | 40 | 3 | 249 | 325 | 54 | 14 | 12 | 23 | 4 | 54 | 24 | 16 | 33 | 3 | 6 | 4 | 2 | ${ }_{15,68}$ |
|  | 13 | 1,121 | 1,139 | 0 | ${ }^{90}$ | ${ }^{817}$ | 9 | 0 | 31 | 27 | 0 | 1,573 | 11 | 0 | 466 | 11,128 | 1,551 | 69 | 112 | 92 | 181 | 346 | 7 | 16 | 405 | 2 | 366 | 10 | 5 | 361 | 363 | 31 | 9 | 5 | 11 | 3 | 136 | 145 | 78 | 62 | 5 | 8 | 7 | 3 | 2,50, |
| engessempe Q Univestivor. | 14 | 1,202 | 384 | 0 | 514 | 622 | 156 | 0 | 31 | 822 | 0 | 395 | 904 | 463 | 0 | 6,596 | 2,315 | 193 | 444 | 347 | 446 | 340 | 7 | 83 | 925 | 43 | 309 | 75 | 5 | 1,374 | 125 | 71 | 378 | 45 | 40 | 123 | 170 | 131 | 69 | 479 | 4 | ${ }^{36}$ | 1,82 | 6 | 22,96 |
| Sawgass Epy W.of turivesity | 15 | 7,688 | 507 | 0 | 781 | 829 | 359 | 0 | 60 | 2,109 | 0 | 11 | 5,574 | 11,129 | 6,596 | 0 | 5,291 | 151 | 504 | 389 | 279 | 911 | 4 | 58 | 634 | 32 | 595 | 55 | 3 | 458 | 91 | 55 | 236 | 38 | 43 | 60 | 120 | 128 | 47 | 525 | 3 | 45 | 1,916 | 3 | ${ }^{\text {48,313 }}$ |
| 1.95 .of fememisul coro. Or. | 16 | , | 0 | 0 | , |  |  | 0 | 4 | 89 | 0 | 5,752 | 522 | 1,628 | 2,272 | 5,295 | - | 9,499 1 | 19,058 | 10,891 | 14,840 | 12,25 | 6,920 | 5 | 253 | 176 | 3,258 | 2,825 | 6,749 | 20,575 | 60 | 45 | 76 | 430 | 669 | 1,416 | 262 | 4 | 4 | 2 | 3 | 1 | 6 | 50 | 125,98 |
|  | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 4 | 0 | 409 | 24 | 75 | 177 | 142 | 9,499 | 0 | 492 | 667 | 549 | 1,049 | 629 | 4 | 51 | 27 | 411 | 197 | 540 | 1,489 | 8 | 4 | 3 | 15 | 22 | 156 | 28 | 5 | 5 | 3 | 3 | 1 | 2 | 5 | 16,700 |
| 1.958 Yeamato od. | 18 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 4 | 0 | 703 | 43 | 121 | 428 | 488 | 19,28 | 482 | 0 | 1,740 | 1,600 | 2,276 | 1,811 | 5 | 116 | 69 | 1,163 | 674 | 1,154 | 6,046 | 36 | 14 | 2 | 23 | 34 | 376 | 84 | 4 | 4 | 3 | 3 | 1 | 2 | 12 | 38,54 |
| 1.55 S Samasiskiver | 19 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 18 | ${ }^{13}$ | 0 | 596 | ${ }^{43}$ | 100 | 353 | 401 | 10,689 | 626 | 1,623 | 0 | 13 | 2,875 | 1,100 | 11 | 24 | 31 | 1,219 | 1,082 | 995 | 3,802 | 16 | 7 | 4 | 75 | 51 | 471 | 110 | 21 | ${ }^{21}$ | 8 | 9 | 3 | 4 | 18 | ${ }^{26,43}$ |
| ${ }^{-95}$ ¢ ladesesd. | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | - | 0 | 403 | 86 | 175 | 438 | 303 | 14,955 | 526 | 1,505 | 11 | 0 | 439 | 2,505 | 5 | 219 | 129 | 3,161 | 1,390 | 2,375 | 5,221 | 111 | 58 | 2 | 31 | 42 | 1,108 | 19 | 9 | 9 | 4 | 5 | 1 | 2 | 25 | 35,288 |
|  | 21 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 7 | 0 | 810 | 3 | 344 | 362 | 963 | 12,315 | 1,067 | 2,276 | 2,800 | 430 | 0 | 2,221 | 41 | 246 | 107 | 3,141 | 1,609 | 2.520 | 4,971 | 41 | ${ }^{36}$ | 2 | ${ }^{65}$ | 45 | 631 | 157 | 8 | 8 | 4 | 5 | 1 | 3 | 24 | 3,271 |
| 958 Hillsboresivd. | 22 | 9 | 39 | 0 | 12 | 16 | ${ }^{13}$ | 0 | 19 | ${ }^{13}$ | 0 | 0 | 5 | 8 | 8 | 5 | 6,971 | 661 | 1,795 | 1,063 | 2,500 | 2,203 | 0 | 10 | 17 | 6 | 2,434 | 3,590 | 4,996 | 7,958 | 4 | 1 | 4 | 7 | 11 | 8 | 18 | 22 | 21 | 8 | 9 | 3 | 4 | 5 | 34,174 |
| Naturavid. . .ots is woinst | 23 | 7 | 17 | 0 | 13 | 13 | 3 | 0 | 5 | 3 | 0 | 311 | 19 | 15 | 161 | 100 | 6 | 2 | 4 | 6 | 23 | 31 | 4 | 0 | 3,343 | 2,130 | 121 | 210 | 146 | 237 | 12 | 2 | 1 | 4 | 9 | 23 | ${ }^{23}$ | 22 | 7 | ${ }^{33}$ | 10 | 1 | 17 | 4 | 7,093 |
|  | 24 | 48 | 76 | 0 | 76 | 59 | 8 | 0 | 5 | 3 | 0 | 2,616 | 145 | 372 | 1,030 | 665 | 416 | 42 | 137 | 19 | 517 | 226 | 5 | 3,359 | 0 | 6,768 | 126 | 2,088 | 1,896 | 7,187 | 137 | 37 | 2 | 81 | 122 | 403 | 676 | 104 | 151 | 647 | 129 | 6 | 156 | 64 | 30,599 |
| Natura Bux. S. O otsw 100 | 25 | 4 | 4 | 0 | 4 | 4 | 2 |  | 3 | 2 | 0 | 41 | 7 | 2 | 55 | 40 | 193 | 14 | 54 | 23 | 122 | 74 | , | 2,292 | 6,444 | , | 2 | 26 | 44 | 132 | 2 | 1 | 1 | 1 | 3 | 9 | 102 | 52 | 62 | 349 | 62 | 1 | 15 | 1 | 10,50 |
| ${ }^{95}$ ¢ Smmpered. | 26 | 5 | 22 | 0 | 8 | 10 | 8 | 0 | 0 | 0 | 0 | 0 | 3 | 338 | 283 | 515 | 3,399 | 427 | 1,263 | 1,192 | 2,962 | 3,142 | 2,470 | 147 | 148 | 1 | 0 | 97 | 3,110 | 18,072 | 2 | 1 | 3 | 3 |  | 5 | 42 | 36 | 23 | 5 | 6 |  | 3 | 3 | 37,63 |
|  | 27 | 5 | 19 | 0 | 6 | 9 | 7 | 0 | 0 | 0 | 0 | 0 | 32 | 9 | 63 | ${ }^{43}$ | 2,862 | 204 | 716 | 1,052 | 1,316 | 1,628 | 3,433 | 197 | 2,272 | 38 | 91 | 0 | 382 | 20,703 | 2 | 1 | 2 | 3 | 7 | 4 | 185 | 102 | 107 | 32 | 36 | 1 | 2 | 2 | 35,56 |
| 1.55 e Alanicicad. | 28 | 5 | 19 | 0 | 7 | 9 | 7 | 0 | 0 | 0 | 0 | 0 | 3 | 4 | 4 | 3 | 6,901 | 534 | 1,163 | 963 | 2,214 | 2,528 | 4,606 | 172 | 2,080 | 51 | 3,066 | 368 | 0 | 25,781 | 2 | 1 | 2 | 3 | 7 | 34 | 394 | 221 | 324 | 168 | 210 |  | 2 | 5 | 51.86 |
|  | 29 | 349 | 147 | 0 | 98 | 75 | 100 | 0 | 0 | 0 | 0 | 0 | 191 | 294 | 1,185 | 370 | 20,30 | 1,442 | 6,202 | 3,731 | 5,408 | 5,196 | 8,221 | 340 | 7,844 | 147 | 18,133 | 20,731 | 25,787 | 0 | 73 | 15 | 2 | 134 | 240 | 526 | 665 | 589 | 191 | 491 | 520 | ${ }^{31}$ | 1,595 | 95 | 131,188 |
|  | 30 | 38 | 51 | 0 | 47 | 74 | 124 | 0 | 15 | 11 | 0 | 0 | 237 | 253 | 96 | 63 | 64 | 11 | 47 | 16 | 127 | ${ }^{43}$ | 4 | 7 | 162 | 2 | 3 | 3 | 3 | ${ }^{81}$ | 0 | 15 | 664 | 7 | 10 | 25 | 18 | 23 | 12 | 105 | 3 | 7 | 303 | 2 | 2,76 |
|  | ${ }^{\text {a }}$ | 14 | 22 | 0 | 30 | 27 | 27 | 0 | 5 | 4 | 0 | 0 | 51 | 28 | 68 | 50 | 36 | 4 | 13 | 7 | 46 | 28 | 2 | 2 | 49 | 1 | 1 | 1 | 1 | 18 | 13 | 0 | 431 | 4 | 6 | 1 | 9 | 10 | 5 | ${ }^{43}$ | 1 | 2 | 97 | 1 | 2,161 |
|  | 32 | 1,005 | 570 | - | 1,483 | ${ }_{1,136}$ | 525 | 0 | 14 | 9 | 0 | 0 | 14 | 10 | 385 | 243 | 87 | 3 | 2 | 4 | 3 | 2 | 4 | 1 | 2 | 0 | 3 | 3 | 3 | 2 | 515 | 399 | 0 | 1 | 3 | 1 | 2 | 2 | 1 | 2 | 2 | 360 | 12,582 | 34 | 19,418 |
| swosot Ave S. . ofsw 1ont St. | 33 | 41 | 38 | 0 | 64 | 55 | 40 | - | 8 | - | 0 | 0 | 12 | 7 | 69 | 54 | 313 | 13 | 20 | 57 | 23 | ${ }^{41}$ | 7 |  | 103 | 2 | 5 | 5 | 5 | 153 | 9 | 4 | 2 | 0 | 453 | 5 | 7 | 20 | 5 | 162 | 13 | 4 | ${ }^{341}$ | 31 | 2,202 |
| Wwzst Ave s. S.otsw 10atst. | 34 | 3 | 7 | 0 | 5 | 6 | 3 | 0 | 10 | 6 | 0 | 0 | ${ }^{23}$ | 18 | 48 | 52 | 690 | 24 | 32 | 57 | 43 | 34 | 14 | 10 | 152 | 2 | 10 | 10 | 10 | 294 | 10 | 5 | 4 | 437 | 0 | 6 | 23 | 41 | 12 | 209 | 23 | 4 | 398 | 10 | 2,788 |
|  | 35 | 41 | 36 | 0 | 55 | 45 | 20 | 0 | 2 | 1 | 0 | 21 |  | 2 | 63 | 29 | 1,387 | 180 | 419 | 462 | 1,043 | 553 | 8 | 22 | 470 | 7 | 6 | 6 | 43 | 675 | 23 | 1 | 1 | 7 | 5 | 0 | 444 | 591 | 175 | 8,866 | 743 | 10 | 1,024 | 15 | 16,724 |
|  | 36 | 15 | 20 | 0 | 20 | 14 | 8 | 0 | 3 | 2 | 0 | 328 | 73 | 175 | 232 | 166 | 249 | 25 | 62 | 90 | 20 | 131 | 12 | 10 | 406 | 50 | 36 | 176 | 386 | 515 | 24 | 13 | 2 | 8 | 32 | 563 | 0 | 19 | 3 | 138 | 31 | 3 | 397 | 5 | 4,462 |
|  | 37 | 9 | ${ }^{23}$ | 0 | 23 | 9 | 1 | 0 | 3 | 2 | 0 | 445 | 32 | 183 | 162 | 154 | 3 | 4 | 3 | 14 | 8 | 6 | 13 | 8 | 59 | 22 | 25 | 92 | 201 | 428 | 31 | 15 | 2 | 29 | 57 | 740 | 15 | 0 | ${ }^{348}$ | 3 | 57 | 1 | 2 | 12 | 3,241 |
| Inemal zone at Newport Center | 38 | 6 | 11 | 0 | 14 | 8 | 1 | 0 | 3 | 2 | 0 | 251 | 22 | 103 | 91 | 62 | 3 | 4 | 3 | 14 | 8 | 6 | 12 | 2 | 74 | 26 | 16 | 80 | 262 | 130 | 14 | 8 | 2 | 5 | 14 | 213 | 3 | 373 | 0 | 3 | 11 | 1 | 2 | 2 | 1,863 |
| Miltay trail N.otsw 10m | 39 | ${ }^{15}$ | 16 | 0 | ${ }^{24}$ | 12 | 1 | 0 | 5 | 4 | 0 | 913 | 34 | 72 | 532 | 584 | 3 | 3 | 3 | 8 | 5 | 5 | 8 | 25 | 632 | 267 | 6 | 41 | 211 | 56 | 94 | ${ }^{41}$ | 2 | 154 | 234 | 7,89 | 133 | 3 | 3 | 0 | 403 | 1 | 2 | 73 | 13,036 |
| Eastor. . . ots w 1 onst. | 40 | 1 | 5 | 0 | 2 | 2 | 2 | 0 | 6 | 4 | 0 | 32 | 3 | 5 | 5 | 3 | 4 | 4 | 3 | 9 | 6 | 5 | 9 | 6 | 135 | 45 | 6 | 46 | 262 | 609 | 3 | 1 | 3 | 12 | 22 | 675 | 23 | 39 | 9 | 377 | 0 | 2 | 3 | 3 | 2389 |
| Westor. . . of fowerine ed. | 41 | 64 | 54 | - | 77 | 66 | 5 | 0 | 7 | 5 | 0 | 0 | 6 | 7 | 35 | 44 | 1 | 1 | 1 | 2 | 1 | 1 | 2 |  | 5 | 0 | 2 | 2 | 2 | 38 | 5 | 2 | 321 | 3 | 4 | 12 | 3 | 1 | 1 | 1 | 1 | 0 | 3,803 | 7 | 4.591 |
| Powerine ed. N. . of westor. | 42 | 299 | 188 | 0 | 242 | 80 | 8 | 0 | 12 | 9 | 0 | 0 | 4 | 7 | 1,819 | 1.886 | 6 | 2 | 2 | 4 | 2 | 3 | 4 | 19 | 179 | 15 | 3 | 3 | 3 | 2,032 | 259 | 105 | 12,431 | 334 | 464 | 907 | 301 | 2 | 1 | 2 | 3 | 3,686 | 0 | 540 | 25,86 |
| temal 2 one at Powerine | 43 | 13 | 24 | 0 | 25 | 16 | 4 | 0 | 6 | 4 | 0 | 0 | 2 | 3 | 7 | 3 | 50 | 5 | 11 | 16 | 26 | 22 | 5 | 3 | 58 | 1 | 3 | 3 | 7 | 112 | 2 | 1 | 35 | 29 | 12 | 18 | 5 | 10 | 2 | 74 | 3 | 7 | 530 | 0 | ${ }^{1,155}$ |
| Total |  | 63,309 | 20,845 | 0 | 20,54 | 16,72 | 23,09 | $\bigcirc$ | 15,60 2 | 20,188 | 11,082 | 90,90 | 15,911 | 2,9,98 | 22,95 | 48,361 | 125,96 | 16,700 | 38,759 | 26,36 | 35,33 | 37,24 | 33,171 | 7,098 | 30,533 | 10,25 | 37,84 | 35,93 | 5,8,89 | 1312,231 | 2,79 | 1,61 | 19,388 | 2,185 | 2,741 | 12.551 | 4.550 | [3,82 | 1,952 | 13,000 | 2,380 | 4,533 | 2,584 | 1,49 | 0,647 |


| 20as somantoptaz: AM |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $\qquad$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2onet | 1 | 2 | 3 | - | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 |  |
| TrkN. of takeworth Rd | 1 | 0 | 2,531 | 0 | 1,656 | 2,354 | 961 | 0 | 410 | 1.030 | 0 | 3,948 | 275 | 349 | 413 | 2,433 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 2 | 24 | 1 | 3 | 4 | 3 | 49 | 3 | 1 | 411 | 17 | 0 | 15 | 3 | 2 | 2 | 6 | 0 | 29 | ${ }^{45}$ | 4 | 16,989 |
| Tree lateworth d. | 2 | 4,407 | 0 | 0 | 248 | 627 | 829 | 0 | 863 | 123 | 0 | 643 | 181 | 311 | 189 | 206 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 4 | 21 | 1 | 6 | 8 | 8 | 16 | 3 | 1 | 98 | 6 | 1 | 4 | 1 | 2 | 2 | 2 | 1 | 13 | 10 | 4 | 8,895 |
| TPKe Hyplux Evi. | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TRK® Boymon Beach bin | 4 | 1,941 | 306 | 0 | 0 | 8 | 1,301 | 0 | 574 | 682 | 0 | 1,049 | 208 | 339 | 252 | 370 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 3 | 41 | 1 | 3 | 4 | 4 | 31 | 4 | 4 | 763 | 28 | 1 | 24 | 5 | 6 | 6 | 10 | 1 | 42 | ${ }^{43}$ | 11 | 8,067 |
| TMe Atanaticave. | 5 | 1,613 | 348 | 0 | 21 | 0 | 253 | 0 | 327 | 538 | 0 | 869 | 87 | 144 | 186 | 318 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 3 | 25 | 1 | 5 | 6 | 6 | 25 | 6 | 4 | 579 | 24 | 1 | 19 | 4 | 2 | 4 | 5 | 1 | 37 | 15 | 6 | ${ }_{5,48}$ |
| Tree Giad ed. | 6 | 778 | 690 | - | 637 | 129 | 0 | 0 | 24 | 1,066 | 0 | 2,029 | 2 | 4 | 3 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 1 | 0 | 4 | 5 | 5 | 14 | 11 | 3 | 322 | 18 | 1 | 7 | 0 | 0 | 0 | 1 | 1 | 3 | 4 | 2 | 5,74 |
| Trke Exta | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TRKe Sample Rd. | 8 | 336 | 458 | 0 | 343 | 604 | 40 | 0 | 0 | 3 | 0 | 4,322 | 14 | 22 | 20 | 11 | 2 | 4 | 4 | 6 | 4 | 5 | 7 | 1 | 2 | 1 | 0 | 0 | 0 | 0 | 3 | 1 | 6 | 2 | 2 | 1 | 1 | 2 | 2 | 2 | 2 | 5 | 6 | 3 | 6.245 |
| Trke cocunut creer Patwey | 9 | 413 | 4 | 0 | 113 | 203 | 824 | 0 | 5 | 0 | 0 | 1,763 | 37 | 11 | 364 | 830 | ${ }^{13}$ | 2 | 2 | 3 | 2 | 2 | 3 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 3 | 2 | 4,613 |
| TRKe Atantic end. | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2,674 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.65 |
| Trks. of Atanticie bud. | 11 | 2.574 | 98 | 0 | 419 | 531 | 4,843 | 0 | 4,564 | 3,100 | 3,599 | 0 | 1,751 | 14 | 19 | 7 | 1,244 | 203 | 257 | 223 | 78 | 344 | 4 | 73 | 1,231 | 8 | 0 | 0 | 0 | 0 | 2 | 1 | 4 | 1 | 1 | 1 | 58 | 100 | 81 | 206 | 1 | 3 | 4 | 2 | 25.6 |
| Savgass Expe © Leos sad. | 12 | 245 | 113 | 0 | 150 | 153 | 3 | 0 | 5 | 4 | 0 | 2,807 | 0 | 5 | 121 | 2,383 | 65 | 2 | 1 | 1 | 4 | 1 | 1 | 2 | 31 | 1 | 1 | 18 | 2 | 35 | 4 | 0 | 5 | 1 | 2 | 3 | 12 | 3 | 6 | 6 | 1 | 5 | 1 | 1 | 6,24 |
| Suwgass Exy © U S41/ /SR7 | 13 | 405 | 299 | 0 | 315 | 575 | 5 | 0 | 8 | 6 | 0 | 1,447 | 5 | 0 | 96 | 3,647 | 254 | 15 | 7 | 10 | 51 | 152 | 2 | 3 | 112 | 1 | 132 | 8 | 2 | 88 | 2 | 0 | 4 | 2 | 4 | 2 | 15 | 5 | 11 | 30 | 2 | 5 | 2 | 1 | 1,26 |
| Sawgas Expy Univesity O. | 14 | 491 | 111 | 0 | 174 | 373 | 133 | 0 | 10 | 418 | 0 | 375 | 299 | 201 | 0 | 2,545 | 803 | 112 | 212 | 157 | 58 | 42 | 3 | 38 | 438 | 9 | 171 | 60 | 3 | 657 | 2 | 2 | 221 | 26 | 7 | 110 | 69 | 24 | 33 | 145 | 2 | 18 | 918 | 3 | 9,473 |
| Savgass Expy W.of f Univesity 0 . | 15 | 3,091 | 228 | 0 | 259 | 403 | 304 | 0 | 49 | 1,237 | 0 | 9 | 2,014 | 2,937 | 1,848 | 0 | 1,220 | 73 | 202 | 138 | 13 | 35 | 2 | 24 | 254 | 6 | 269 | 22 | 2 | 165 | 1 | 0 | 121 | 18 | 7 | 59 | 52 | ${ }^{13}$ | 26 | 158 | 1 | ${ }^{21}$ | 821 | 1 | 15,933 |
|  | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 7 | 0 | 667 | 39 | 252 | 400 | 1,990 | 0 | 4,319 | 6,230 | 2,957 | 3,178 | 1,783 | 1,371 | 5 | 172 | 128 | 471 | 572 | 1,568 | 1,880 | 6 | 1 | 0 | 34 | 50 | 306 | 227 | 4 | 3 | 1 | 1 | , | 1 | 22 | 27,59 |
|  | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 45 | 2 | 6 | 24 | 21 | 1,047 | 0 | 101 | 141 | 161 | 230 | 231 | 3 | 30 | 14 | 27 | 17 | 41 | 52 | 1 | 0 | 0 | 1 | 2 | 25 | 21 | 4 | 4 | 1 | 1 | 0 | 0 | 2 | 2.26 |
| 1.55 Cramat Rd. | 18 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 126 | 3 | 11 | 68 | 71 | 3,067 | 155 | 0 | 289 | 608 | 598 | 731 | 4 | 65 | 38 | 106 | 55 | 87 | 141 | 4 | 0 | 0 | 3 | 4 | 70 | 69 | 4 | 3 | 1 | 1 | 0 | 0 | 7 | 6,392 |
| 1.95 ¢ Spanish River | 19 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 8 | 0 | 175 | 8 | 22 | 77 | 59 | 1,483 | 159 | 513 | 0 | 7 | 761 | 349 | 9 | 16 | 19 | 153 | 228 | 195 | 484 | 2 | 1 | 2 | 9 | 9 | 81 | 91 | 20 | 19 | 4 | 5 | 2 | 2 | 5 | 4,987 |
| 1.958 Clades Red. | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 3 | 0 | 138 | 8 | 51 | 132 | 30 | 1,939 | 104 | 179 | 3 | 0 | 69 | 363 |  | 106 | 57 | 147 | 27 | 31 | 988 | 10 | 1 | 1 | 1 | 4 | 56 | 13 | 8 | 7 | 2 | 2 | 1 | 1 | 10 | 4,998 |
| 1.55 e Palmetoto Parkd. | ${ }^{21}$ | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 3 | 0 | 170 | 1 | 12 | 81 | 276 | 2,710 | 343 | 740 | 787 | 45 | 0 | 795 | 40 | 187 | 72 | 465 | 161 | 272 | 1,173 | 4 | 1 | 1 | 1 | 1 | 28 | 130 | 7 | 7 | 2 | 2 | 1 | 1 | 7 | 8,529 |
| 1.95 ¢ \#ulboro ivd. | 22 | 3 | 13 | 0 | 6 | 10 | 7 | 0 | 12 | 9 | 0 | 0 | 3 | 4 | 4 | 2 | 1,392 | 251 | 727 | 262 | 869 | 450 | 0 | 7 | 14 | 5 | 753 | 1,039 | 982 | 1,329 | 1 | 0 | 2 | 2 | 3 | 4 | 14 | 20 | 19 | 4 | 5 | 2 | 2 | 3 | ${ }_{8,23}$ |
|  | ${ }^{23}$ | 2 | 4 | 0 | 5 | 5 | 2 | 0 | 2 | 2 | 0 | 101 | 11 | 2 | 49 | 26 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 1,123 | 480 | 64 | 93 | 48 | 73 | 1 | 0 | 0 | 2 | 4 | 4 | 15 | 17 | 6 | 28 | 4 | 1 | 12 | 3 | 2,193 |
| Sw 10thst. . of.t.95 | 24 | 12 | 15 | 0 | 22 | 27 | 4 | 0 | 3 | 2 | - | 824 | 67 | 121 | 421 | 259 | 23 | 7 | 16 | 2 | 29 | 17 | 1 | 620 | 0 | 917 | 8 | 399 | 328 | 964 | 22 | 3 | 0 | 31 | 35 | 145 | 583 | 78 | 142 | 413 | 51 | 4 | 69 | 52 | ${ }^{6,735}$ |
|  | 25 | 1 | 1 | 0 | 1 | 2 | 1 | 0 | 1 | 1 | 0 | 20 | 4 | 1 | 23 | 19 | 16 | 5 | 11 | 4 | 22 | 12 | 0 | 530 | 844 | 0 | 0 |  | 10 | 25 | 0 | 0 | 0 | 1 | 1 | 2 | 78 | 25 | 54 | 168 | 17 | 0 | 5 | 1 | 1,909 |
| ${ }^{1.595}$ esample Rd. | 26 | 2 | 7 | 0 | 3 | 5 | 4 | 0 | 0 | 0 | - | 0 | 1 | 127 | 53 | 79 | 987 | 176 | 627 | 279 | 592 | 546 | 361 | 4 | 2 | 0 | 0 | ${ }^{43}$ | 624 | 4,711 | 1 | 0 | 1 | 1 | 2 | 2 | 27 | 29 | 16 | 2 |  | 1 | 1 | 2 | 9,324 |
| 1.950 Copans $\mathrm{Sd}$. | 27 | 1 | 5 | 0 | 2 | 4 | 3 | 0 | - | 0 | 0 | 0 | , | 2 | 6 | 5 | 324 | 87 | 347 | 225 | 246 | 378 | 866 | 14 | 171 | 0 | 9 | 0 | 98 | 5,083 | 0 | 0 | 1 | 1 | 1 | 2 | 119 | 55 | 88 | 11 | 8 | 1 | 1 | 1 | 8, ${ }^{168}$ |
| 1.59 e Atanit evva. | 28 | 1 | 5 | 0 | 2 | 4 | 3 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 2 | 1 | 856 | 151 | 572 | 164 | 515 | 438 | 926 | 8 | 144 | 2 | 377 | 72 | - | 4,547 | 0 | 0 | 1 | 1 | 1 | 3 | 316 | 138 | 296 | 55 | 46 | 1 | 1 | 1 | 0,551 |
| 1.59 e Sotatanicic Evx. | 29 | 22 | 7 | 0 | 9 | 18 | 17 | 0 | 0 | 0 | 0 | 0 | 12 | 54 | 99 | 30 | 1,945 | 307 | 1,327 | 731 | 895 | 1,297 | 1,591 | 10 | 628 | 8 | 2,249 | 3,886 | 4.819 | 0 | 3 | 1 | 1 | 20 | 27 | 114 | 562 | 409 | 164 | 228 | 110 | 10 | 271 | 36 | 21,95 |
|  | 30 | 10 | 8 | 0 | 17 | 33 | 58 | 0 | 7 | 5 | - | 0 | 2 | 11 | 16 | 6 | 28 | 7 | 32 | 6 | 68 | 20 | 2 | 4 | 99 | 1 | 1 | 2 | 2 | 27 | 0 | 0 | 402 | 3 | 2 | ${ }^{13}$ | 11 | 14 | 8 | 44 | 1 | 6 | 239 | 1 | 1,24 |
| Indepandance or. 5.0 of sw 10ats st. | 31 | 1 | 2 | 0 | 5 | 5 | 5 | - | 2 | 1 | 0 | 0 | ${ }^{23}$ | 3 | 30 | 23 | 3 | 1 | 2 | 1 | 4 | 2 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 3 | 3 | 0 | 81 | 0 | 0 | 1 | 1 | 1 | 1 | 3 | , | 1 | 26 | 0 | ${ }^{248}$ |
|  | 32 | 145 | 56 | 0 | 252 | 289 | 17 | 0 | 7 | 5 | 0 | 0 | 3 | 4 | 64 | 70 | 58 | 2 | 1 | 2 | 1 | 1 | 2 | 0 | 1 | 0 | 1 | 2 | 2 | 1 | 92 | 43 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 201 | 3,704 | 11 | 5.046 |
|  | 33 | 2 | 3 | 0 | 3 | 4 | 2 | 0 | 3 | 2 | 0 | 0 | 3 | 1 | 5 |  | 29 | 4 | 5 | 6 | 5 | 2 | 2 | 1 | 19 | 0 | 2 | 2 | 2 | 17 | 1 | 0 | 1 | - | ${ }^{83}$ | 1 | 2 | 4 | 3 | 32 | 3 | 1 | 55 | 13 | ${ }^{330}$ |
| Swzstave. S. .ofsw 10atst. | 34 | 1 | 2 | 0 | 2 | 3 | 1 | 0 | 4 | 3 | 0 |  | 9 | 4 | 16 | 18 | 292 | 10 | ${ }^{\text {}}$ | 18 | 12 | 6 | 5 | 1 | 61 | 1 | 5 | 6 | 6 | 78 | 2 | 1 | 2 | 45 | 0 | 2 | 5 | 12 | 5 | 84 | 8 | 2 | 169 | 7 | 919 |
|  | 35 | 7 | 3 | 0 | 12 | 16 | 1 | 0 | 1 | 1 | 0 | 8 | 0 |  |  | 0 | 219 | 90 | 192 | 136 | ${ }^{337}$ | 66 | 3 | 7 | 156 | 3 | 2 | 3 | 4 | 122 | 2 | 0 | 0 | 0 | 1 | 0 | 207 | 171 | 104 | 2,209 | 148 | 3 | 159 | 3 | 4,402 |
|  | ${ }^{36}$ | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 |  | 0 | 7 | 3 | 5 | 8 | 4 | 25 | 8 | 17 | 15 | 5 | 24 | 3 | 3 | 77 | 10 | 15 | 75 | 77 | 84 | 1 | 0 | 0 | 0 | 1 | 11 | 0 | 4 | 2 | 7 | 1 | 0 | 6 | 1 | 500 |
|  | 37 | 0 | 0 | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 | 10 | 1 | 4 | 6 | 5 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 2 | 19 | 10 | 5 | 47 | 80 | 143 | 0 | 0 | 0 | 1 |  | 15 | 8 | 0 | 6 | 0 | 2 | 0 | 0 | 1 | 376 |
| Interal 2one at Newport Center | 38 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 3 | 2 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 0 | 6 | ${ }^{\text {a }}$ | 5 | 19 | 22 | 18 | , | 0 | 0 | 0 | 0 | 1 | 1 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 101 |
|  | 39 | 1 | 1 | 0 | 2 | 2 | 1 | 0 | 2 | 2 | 0 | 273 | 6 | 2 | 177 | 199 | 1 | 2 | 1 | 2 | 2 | 2 | 3 | 1 | 163 | ${ }^{88}$ | 2 | 12 | 34 | 75 | 19 | 3 | 1 | 31 | 11 | 1,952 | 113 | 1 | 1 | 0 | 8 | 1 | 1 | 45 | 3,243 |
| Eastor.r.0. of sw wath st. | 40 | 0 | 1 | - | - | 1 | 1 | 0 | 2 | 2 | 0 | 32 | 1 | 2 | 2 | , | 1 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 52 | 19 | 2 | 20 | 84 | 197 | 0 | 0 | 1 | 1 | 3 | 186 | 9 | 6 | 5 | 11 | 0 | 1 | 1 | 1 | 659 |
|  | 41 | 12 | 5 | 0 | 18 | 20 | 2 | 0 | 3 | 3 | 0 |  | 2 | 2 | 11 | 14 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 1 | , | 1 | 1 | 1 | 13 | 1 | 0 | 93 | 2 | 0 | 6 | 1 | 0 | 0 | 0 | 1 | 0 | 467 | 2 | 687 |
| Poweline d. . . . of west O . | 42 | 30 | 14 | 0 | 21 | 8 | 3 | 0 | 5 | 4 | 0 | 0 | 1 | 2 | 175 | 238 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 18 | 2 | 1 | 1 | 1 | 387 | ${ }^{13}$ | 2 | 3,356 | 60 | 11 | 221 | 20 | 1 | 0 | 1 | 1 | 608 | 0 | 76 | 5,286 |
| Intenal 2 one at Powerine | 43 | 1 | 2 | 0 | 2 | 2 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 1 | 0 | 2 | 0 | 0 | 1 | 0 | 2 | 0 | 1 | 1 | 1 | 15 | 0 | 0 | 6 | 0 | 0 | 8 | 0 | 1 | 0 | 3 | 0 | 2 | 61 | 0 | 120 |
| Total |  | 16,599 | 5,39 | 0 | 4.23 | 6,416 | 9.67 | 0 | 6,24 | 8,27 | 3,599 | 24,533 | 5,000 | 5,045 | 5,470 | 15,39 | 1,984 | 6,606 | 12,30 | 6,578 | 7,84 | 7,288 | 7,660 | 1,484 | ${ }_{6,367}$ | 1,909 | 5,466 | 6,917 | 9,454 | 23,07 | 230 | 7 | 6,489 | 336 | 288 | 3,503 | 2.860 | 1,198 | ${ }^{1,41}$ | 3,888 | 448 | 1.031 | \|,128 | 355 | 26,320 |


| 20as soma_N_Toptaz: PM |  |  |  |  |  | 官 |  |  | 夏 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $\qquad$ |  |  |  |  |  |  |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2onet | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | - | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 |  |
| Tren. of takeornth Rd. | 1 | 0 | 4,407 | 0 | 1,940 | 1,612 | 777 | 0 | 333 | 409 | 0 | 2.589 | 244 | 405 | 484 | 3,093 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 1 | 10 | 1 | 2 | 1 | 2 | 22 | 9 | 1 | 145 | 1 | 1 | 12 | 1 | 0 | 0 | 1 | 0 | 9 | 32 | 1 | 1.559 |
| Tree lateworth d. | 2 | 2,531 | 0 | 0 | 307 | 349 | 692 | 0 | 455 | 4 | 0 | 95 | 112 | 300 | 110 | 229 | 0 | 0 | 0 | 0 | 0 | 0 | 12 | 3 | 12 | 1 | 7 | 5 | 6 | 7 | 8 | 2 | 56 | 1 | 3 | 4 | 1 | 1 | 0 | 1 | 1 | 4 | 16 | 3 | 5,39 |
| Tree enpluxe evd. | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Tree boymon Eeas bivd. | 4 | 1,656 | 247 | - | 0 | 21 | 638 | 0 | 341 | 112 | 0 | 421 | 149 | 316 | 172 | 260 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 3 | 17 | 1 | 4 | 3 | 3 | 9 | 16 | 5 | 252 | 1 | 2 | 20 | 1 | 1 | 1 | 2 | 1 | 14 | ${ }^{23}$ | 3 | 4,721 |
| Tree Atanticave. | 5 | 2,355 | 624 | 0 | 8 | 0 | 129 | 0 | 600 | 202 | 0 | 533 | 152 | 577 | 370 | 404 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 3 | ${ }^{21}$ | 1 | 6 | 4 | 5 | 18 | 31 | 6 | 291 | 2 | 3 | 27 | 1 | 1 | 0 | 2 | 1 | 16 | 8 | 2 | 6,413 |
| Tre Gided ed. | 6 | 962 | 826 | 0 | 1.301 | 253 | 0 | 0 | 39 | 814 | 0 | 4,856 | 3 | 5 | ${ }^{131}$ | 304 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 1 | 3 | 0 | 4 | 3 | 4 | 17 | 55 | 5 | 17 | 1 | 1 | 2 | 0 | 0 | 0 | 1 | 1 | 2 | 3 | 1 | 9,68 |
| Tree Exta | 7 | 0 | 0 | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $\bigcirc$ |
| TRKe Sample Rd. | 8 | 411 | 862 | 0 | 575 | 327 | 24 | 0 | 0 | 5 | 0 | 4,562 | 5 | 8 | 10 | 50 | 3 | 2 | 2 | 12 | 6 | 4 | 10 | 1 | 2 | 1 | 0 | 0 | 0 | 0 | 6 | 2 | 7 | 1 | 6 | 1 | 1 | 1 | 1 | 2 | 3 | 3 | 5 | 1 | 6,920 |
| Tree Cocanut Creek Parke | 9 | 1,032 | 123 | 0 | 683 | 538 | 1,062 | 0 | 3 | 0 | 0 | 3,099 | 4 | 6 | 414 | 1,240 | 9 | 2 | 1 | 8 | 5 | 3 | 7 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 5 | 1 | 5 | 1 | 4 | 1 | 1 | 0 | 0 | 2 | 2 | 2 | 4 | 1 | 8270 |
| TrKe Atanicicavd. | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3,598 | 0 | 0 | 0 | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3,598 |
| Trks.of Atamitic bud. | 11 | 3,954 | 643 | 0 | 1,050 | 869 | 2,021 | 0 | ${ }_{4}^{4}, 32$ | 1,764 | 2.675 | 0 | 2,795 | 1,450 | 376 | 12 | 823 | 49 | 108 | 183 | 196 | 177 | 5 | 58 | 606 | 14 | 0 | 0 | 0 | 0 | 3 | 1 | 3 | 1 | 3 | ${ }^{13}$ | 15 | ${ }^{23}$ | 8 | 266 | 37 | 1 | 2 | 1 | 24,529 |
| Savgass Expe Q Lros s. | 12 | 274 | 179 | 0 | 207 | 86 | 2 | 0 | 14 | 37 | 0 | 1,772 | 0 | 5 | 295 | 2,015 | 45 | 2 | 3 | 8 | 11 | 1 | 2 | 6 | 46 | 2 | 1 | 3 | 1 | 11 | 1 | 22 | 3 | 1 | 11 | 1 | 5 | 2 | 1 | 5 | 1 | 1 | 1 | 0 | 5,085 |
| Sawgass Epye U 4 Sa1/ SR7 7 | 13 | 349 | 310 | 0 | 339 | 143 | 4 | 0 | 22 | 11 | 0 | 0 | 5 | 0 | 199 | 2,937 | 294 | 6 | 9 | 21 | 68 | 11 | 3 | 1 | 84 | 0 | 117 | 2 | 2 | 48 | 10 | 3 | 4 | 1 | 5 | 1 | 11 | 10 | 6 | 1 | 2 | 1 | 2 | 1 | 5,092 |
| Sawgas Expy Univesity O. | 14 | 425 | 194 | 0 | 259 | 191 | 3 | 0 | 21 | 376 | 0 | 6 | 125 | 99 | 0 | 1,848 | 480 | 25 | 56 | 76 | 180 | 81 | 3 | 27 | 301 | 15 | 51 | 7 | 2 | 92 | 14 | 30 | 59 | 2 | 20 | 10 | 16 | 15 | 6 | 168 | 2 | 8 | 175 | 1 | 5,469 |
|  | 15 | 2,421 | 204 | 0 | 368 | 316 | 7 | 0 | 11 | 831 | 0 | 0 | 2,382 | 3,645 | 2,546 | 0 | 1,264 | 21 | 56 | 56 | 39 | 268 | 2 | 14 | 179 | 12 | 73 | 5 | 1 | 27 | 5 | ${ }^{23}$ | ${ }^{63}$ | 2 | 21 | 0 | 8 | 12 | 3 | 182 | 1 | 10 | 231 | 1 | 15,306 |
| ${ }^{1.955}$ Nof feenisula corp. or. | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 10 | 0 | 1,005 | 54 | 212 | 662 | 852 | 0 | 2.036 | 3,690 | 1,715 | 2.522 | 2,421 | 1,166 | 1 | 73 | 45 | 826 | 297 | 897 | 1,580 | 19 | 3 | ${ }^{41}$ | 7 | 209 | 132 | 21 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 20,500 |
| $95 ¢$ Penisinl coro. Dr. | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 1 | 0 | 150 |  | 12 | 86 | 57 | 5,27 | 0 | 173 | 171 | 126 | 284 | 195 | 1 | 21 | 13 | 137 | 74 | 146 | 231 |  | 1 | 2 | 1 | 7 | 50 | 6 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 7,184 |
| - 95 E Q ramato ed d. | 18 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 1 | 0 | 198 | 1 | 5 | 168 | 162 | 5,336 | 74 | 0 | 591 | 224 | 635 | 585 | 1 | 49 | 30 | 503 | 305 | 576 | 1,035 | ${ }^{21}$ | 2 | 1 | 1 | 6 | 111 | 14 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 10,6a1 |
| 1.55 ¢ Spansh River | 19 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 3 | 0 | 198 | 1 | 9 | 144 | 128 | 3,153 | 128 | 212 | 0 |  | 785 | 245 | 2 | 9 | 12 | 260 | 229 | 191 | 661 | 4 | 1 | 1 | 2 | 15 | 91 | 14 | 2 | 2 | 1 | 2 | 0 | 1 | 2 | 6,519 |
|  | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 2 | 0 | 70 | 4 | 49 | 55 | 12 | 3,647 | 157 | 481 | 7 | 0 | 46 | 836 | 1 | 104 | 70 | 568 | 258 | 619 | 833 | 53 | 4 | 1 | 1 | 10 | 232 | 4 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 8.32 |
| 1.59 P Palmeto Parkrd. | ${ }^{21}$ | 0 | 0 | 0 | 0 | 0 | 0 | - | 4 | 2 | 0 | 278 | 1 | 128 | 35 | 29 | 2,182 | 240 | 504 | 764 | 96 | 0 | 379 | 1 | 55 | 34 | 460 | ${ }^{347}$ | 462 | 1,060 | 13 | 2 | 1 | 0 | 4 | 40 | 20 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 7,48 |
| 1.95 ¢ Hillsoro Bud. | 22 | 3 | 7 | 0 | 4 | 5 | 4 | 0 | 7 | 3 | 0 | - | 2 | , | 3 | 2 | 1.589 | 228 | 583 | 332 | 478 | 769 | 0 | 2 | 3 | 1 | 402 | 1,051 | 1,290 | 1,715 | 1 | 0 | 2 | 1 | 5 | 2 | 4 | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 8,512 |
|  | 23 | 4 | 9 | 0 | 7 | 8 | 1 | 0 | 3 | 2 | 0 | 196 | 6 | 8 | 106 | 68 | , | 1 | , | 4 |  | 17 | 3 | 0 | 1,076 | 834 | 21 | 72 | 46 | 46 | 10 | 1 | 1 | 1 | 3 | 15 | 7 | 5 | 1 | 2 | 5 | 0 | 1 | 1 | 2,597 |
| Sw loth St. . .0, 1.95 | 24 | 25 | 22 | 0 | ${ }^{43}$ | 27 | 1 | 0 | 2 | 1 | 0 | 1,377 | 36 | 130 | 499 | 294 | 37 | 5 | 10 | 3 | 26 | ${ }^{33}$ | 2 | 618 | 0 | 546 | 4 | 363 | 349 | 1,179 | 93 | 10 | 1 | 6 | 60 | 130 | 87 | ${ }^{24}$ | 8 | 126 | 47 | 1 | 19 | 2 | 6,248 |
| Naturatud. S. ofsw 10 | 25 | 2 | 2 | 0 | 3 | 2 | 1 | 0 | 2 | 1 | 0 | 17 | 2 | 1 | 22 | 15 | 59 | 6 | 12 | 7 | 30 | 28 | 2 | 565 | 1,392 | 0 | 1 | 1 | 10 | 33 |  | 0 | 0 | 0 | 2 | G | 24 | 26 | 7 | 146 | 37 | 0 | 5 | 0 | 2480 |
| 1.59 e Sample Rd. | 26 | 3 | 6 | 0 | 3 | 4 | 3 | 0 | 0 | 0 | 0 | 0 | 1 | 134 | 171 | 273 | 637 | 31 | 99 | 170 | 226 | 527 | 718 | 63 | 10 | 0 | 0 | 15 | 770 | 3,550 | 1 | 0 | 1 | 0 | 4 | 2 | 15 | 6 | 6 | 2 | 2 | 0 | 1 | 1 | 7,457 |
| $1.585^{\text {c Copans }}$ d. | 27 | 3 | 6 | 0 | 3 | 4 | 4 | 0 | 0 | 0 | 0 | 0 | 15 | 7 | 50 | 18 | 647 | 16 | ${ }^{43}$ | 212 | 35 | 152 | 824 | 77 | 428 | 3 | 33 | 0 | 92 | 3,880 | 1 | 0 | 1 | 0 | 4 | 2 | 62 | 43 | 18 | 7 | 13 | 0 | 1 | 1 | 6,70 |
|  | 28 | 3 | 6 | 0 | 3 | 4 | 4 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 3 | 1 | 1,795 | 40 | 68 | 183 | 40 | 260 | 789 | 41 | 356 | 10 | 488 | 49 | 0 | 4,416 | 1 | 0 | 1 | 0 | 4 | 3 | 65 | 74 | 22 | 20 | 56 | 0 | 1 | 1 | 8, 81 |
|  | 29 | 46 | 15 | 0 | 29 | 23 | 13 | 0 | - | 0 | - | 0 | 35 | 90 | 662 | 169 | 2,554 | 60 | 132 | 541 | 1,523 | 1,333 | 1,271 | 73 | 1,242 | 29 | 4,384 | 3,033 | 5,850 | 0 | 22 | 3 | 1 | 5 | 68 | 90 | ${ }^{84}$ | 158 | 20 | 51 | ${ }^{157}$ | 9 | 364 | 14 | 24,53 |
| Watemy Elv. S. Sots sw 10th St. | 30 | 7 | 7 | 0 | 9 | 15 | 25 | 0 | 6 | 3 | 0 | 0 | 10 | 5 | 5 | 2 | 16 | 3 | 8 | 4 | 31 | 9 | 2 | 1 | 37 | 1 | 1 | 1 | 1 | 6 | 0 | 8 | 201 | 1 | 5 | 6 | 3 | 2 | 1 | ${ }^{43}$ | 1 | 1 | 30 | 0 | 519 |
| Indepandance Of. S. . ofs w woth st | 31 | 3 | 3 | 0 | 9 | 10 | 7 | 0 | 3 | 2 | 0 | 0 | 1 | 1 | 6 | 1 |  | 1 | 1 | 2 | 4 | 1 | 1 | 0 | 6 | 0 | 1 | 0 | 1 | 2 | 1 | 0 | 105 | 0 | 2 | 0 | 1 | 0 | 0 | 6 | 1 | 0 | 4 | 0 | 190 |
|  | 32 | 393 | 93 | 0 | 729 | 552 | 306 | 0 | 6 | 3 | - | 0 | 5 | 4 | 226 | 125 | 0 | , | 0 | 2 | 1 | 1 | 2 | 0 | , | 0 | 1 | 1 | 1 | 1 | 337 | 77 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 1 | 1 | 64 | 3,201 | 8 | ${ }_{6,145}$ |
|  | 33 | 32 | 11 | 0 | 53 | 45 | 33 | 0 | 4 | 2 | 0 | 0 | 2 | 3 | 53 | 37 | 59 | 2 | 3 | 13 | 3 | 2 | 2 | 1 | 32 | 1 | 2 | 1 | 1 | 27 | 5 |  | 1 | 0 | 79 | 1 | 1 | 3 | 0 | ${ }^{43}$ | 2 | 2 | 113 | 0 | 674 |
|  | 34 | 1 | 2 | 0 | 3 | 2 | 2 | 0 | 5 | 2 | 0 | 0 | 6 | 12 | 22 | 23 | 141 | 6 | 7 | 22 | 14 |  | 7 | 6 | 58 | 1 | 4 | 3 | 4 | 58 | 5 | 1 | 2 | 75 | 0 | 2 | 5 | 6 | 2 | 25 | 7 | 1 | 33 | 1 | 580 |
|  | 35 | 7 | 2 | 0 | 10 | 8 | 3 | - | 1 | 0 | 0 | 0 | 1 | 1 | 51 | 28 | 401 | 28 | 63 | 87 | ${ }^{83}$ | 31 | 4 | 2 | 113 | 1 | 2 | 2 | 4 | 115 | 5 |  | 0 | 0 | 1 | 0 | 25 | 38 | 2 | 2,016 | 223 | 2 | 96 | 4 | 3,460 |
|  | 36 | 4 | 1 | 0 | 7 | 6 | 0 | 0 | 2 | 1 | 0 | 90 | 20 | 24 | 112 | 84 | 207 | 17 | ${ }^{43}$ | 68 | 13 | 100 | 9 | 6 | 316 | 38 | 19 | 94 | 288 | 395 | 14 | 2 | 1 | 1 | 8 | 244 | 0 | ${ }^{13}$ | 1 | 125 | 11 | 1 | 30 | 0 | 2,415 |
|  | 37 | 3 | 2 | 0 | 8 | 3 | 1 | 0 | 2 | 1 | 0 | 133 | 4 | 8 | 33 | 17 | 3 | , | 2 | 12 | 7 | 5 | 11 | 6 | 36 | 10 | 18 | 37 | 106 | 244 | 16 | 1 | 1 | 1 | 14 | 171 | 6 | 0 | 0 | 1 | , | 0 | 1 | 1 | 935 |
| Inemal zone at Nevoort Center | 38 | 3 | 2 | 0 | 7 | 5 | - | 0 |  | 1 | 0 | 108 | 9 | 15 | 46 | 36 |  | 3 | 2 | 12 | 6 | 5 | 10 |  | 65 | 23 | 10 | 59 | 229 | 98 | 9 | 1 | 1 | 1 |  | 104 |  | 0 | 0 | 1 | - | 0 | 1 | 0 | ${ }^{39}$ |
| Militar tral N . of tw woth st. | 39 | 8 | 3 | 0 | 13 | 8 | 1 | 0 | 3 | 1 | 0 | 296 | 8 | 44 | 213 | 235 | 1 | 1 | 1 | 4 | 2 | 2 | 4 | 16 | 312 | 116 | 2 | 12 | 70 | 223 | 52 | 5 | 1 | 13 | 108 | 2,367 | 16 | 0 | 0 | 0 | 9 | 0 | 1 | 4 | 4,177 |
|  | ${ }_{40}$ | 1 | 2 | 0 | 1 | 1 | 1 | 0 | 4 | 2 | 0 | 0 | 2 | , | 3 | 2 | 2 | 1 | 1 | 5 | 3 | 2 | 5 | 2 | 41 | 13 | 3 | 9 | 61 | 113 | 1 | 0 | 2 | 1 | 11 | 166 | 3 | 4 | 1 | 6 | 0 | 1 | 1 | 1 | ${ }^{47}$ |
| West O . E. Of fowerine ed. | 41 | 20 | 9 | 0 | 28 | 25 | 2 | 0 | 3 | 2 | 0 | 0 | 3 | 4 | 13 | 16 | 0 | 0 | 0 | 1 | 1 | 0 | 1 |  | 2 | 0 | 1 | 0 | 1 | 6 | 3 | 1 | 126 | 0 | 2 | 3 | 1 | 0 | 0 | 0 | 1 | 0 | 736 | 1 | 1,014 |
| Powetine ad. N. . of west O . | 42 | 42 | 10 | - | 40 | 14 | 3 | 0 | 6 | 3 | 0 | 0 | 1 | 2 | 915 | 829 | 1 | 0 | 0 | 2 | 1 | 1 | 2 | 6 | 46 | 3 | 1 | 1 | 1 | 233 | 195 | 24 | 3,173 | 20 | 190 | 225 | 12 | 0 | 0 | 1 | 1 | 557 | 0 | 74 | 6,366 |
| Intenal oneat Poweveline | 43 | 6 | 6 | 0 | 15 | 8 | 3 | 0 | 5 | 2 | 0 | 0 | 1 | 2 | 5 | 1 | 27 | 2 | 6 | 5 | 14 | 8 | 3 | 2 | 39 | 1 | 2 | 1 | 2 | 35 | 2 | 0 | 14 | 5 | 8 | 4 | 2 | 2 | 1 | 45 | 2 | 2 | 103 | 0 | 339 |
| Total |  | 16,990 | 8,45 | 0 | 8,068 | 5.887 | 5.78 | 0 | ${ }^{6,288}$ | 4,615 | 2,65 | 25,688 | 6,211 | 7,731 | 9,46 | 15,98] | 30,666 | 3,193 | 6,322 | 5,302 | 6,96 | 8,004 | ${ }^{7}, 146$ | [1,619 | 7,203 | 1,885 | 8,419 | 6,399 | 12,09 | 22,02 | 1,056 | 29 | 4,587 | 162 | 918 | 4,291 | 563 | 478 | 126 | 3,308 | 648 | 717 | 5.29 | 136 | ${ }^{222,45}$ |

## 2040 Option A2／C2 Trip Tables

|  |  | 㪯 |  |  |  | 曾 |  |  | 晋 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | \％net | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 33 | 40 | 41 | 42 | 43 |  |
| Tren．of takeworth Rd． | 1 | 0 | 2，233 | 0 | 2，126 | 1，532 | 1，577 | 0 | 191 | 1，580 | 0 | 16，163 | 433 | 372 | 293 | 2，117 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 16 | 1 | 1 | 1 | 1 | 373 | 27 | 10 | 438 | 9 | 1 | 15 | 7 | 4 | 2 | 7 | 0 | 29 | 205 | 6 | 2，773 |
| Tree lateworth d． | 2 | 2，234 | 0 | 0 | 502 | 369 | 259 | 0 | 710 | 8 | 0 | 686 | 166 | 534 | 81 | 73 | 0 | 0 | 0 | 0 | 0 | 0 | 18 | 8 | 59 | 3 | 12 | 11 | 10 | 166 | 47 | 18 | ${ }^{393}$ | 31 | 4 | 17 | 13 | ${ }^{13}$ | 6 | 12 | 3 | ${ }^{34}$ | 147 | 16 | 6，662 |
| Tree Hypluse Evd． | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  |
| TPKe Boymon Beash biv． | 4 | 2，126 | 504 | 0 | 0 | 9 | 1，043 | 0 | 128 | 525 | 0 | 1，704 | 174 | 138 | 84 | 151 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 16 | 0 | 1 | 1 | 1 | 80 | 27 | 18 | 474 | 11 | 1 | 18 | 8 | 10 | 4 | 8 | 0 | 27 | 165 | 7 | 7，468 |
| Tree Alaniticave． | 5 | 1，533 | 370 | 0 | 9 | 0 | 131 | 0 | 82 | 421 | 0 | 1，430 | 128 | 100 | 59 | 108 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 9 | 0 | 1 | 1 | 1 | 45 | ${ }^{37}$ | 13 | 276 | 7 | 1 | 11 | 5 | 4 | 2 | 3 | 0 | 18 | ${ }^{53}$ | 5 | 4,864 |
| Tree Glade Rd． | 6 | 1，583 | 261 | 0 | 1，038 | 131 | 0 | 0 | 5 | 837 | 0 | 3，379 | 1 | 1 | 20 | ${ }^{46}$ | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 4 | 0 | 1 | 1 | 1 | 92 | 53 | 16 | 189 | 6 | 1 | 9 | 5 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 2，883 |
| Trke Exta | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TRKe Sample Rd． | 8 | 190 | 712 | 0 | 127 | 81 | 5 | 0 | 0 | 1 | 0 | 1，391 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 2.520 |
| TRe Cocount Creek Park | 9 | 1，585 | 8 | 0 | 522 | ${ }^{421}$ | ${ }^{841}$ | 0 | 1 | 0 | 0 | 3，638 | 127 | 10 | 27 | 39 | 67 | 1 | 1 | 2 | 1 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 2 | 1 | 3 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 1 | 7，315 |
| True Ataniticud． | 10 | 0 | 0 | 0 | 0 | － | 0 | 0 | 0 | 0 | 0 | 4，810 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4,810 |
| Trks．of Atamitic ivd． | 11 | 16，158 | 702 | 0 | 1，689 | 1，424 | 3，385 | 0 | 1，389 | 3，636 | 4.808 | 0 | 510 | 122 | 13 | 2 | 3，777 | 196 | 378 | 213 | 176 | 349 | 3 | 45 | 767 | 9 | 0 | 0 | 0 | 0 | 6 | 3 | 2 | 5 | 1 | 9 | 189 | 248 | 107 | 439 | 1 | 1 | 5 | 1 | 40,71 |
| Suggas Expy © Luos fad． | 12 | 408 | 157 | 0 | 162 | 120 | 0 | 0 | 0 | 125 | 0 | 502 | 0 | 2 | 498 | 1，164 | 353 | 16 | ${ }^{35}$ | 28 | 59 | 1 | 1 | 6 | 68 | 3 | 1 | 19 | 1 | 204 | 320 | 31 | 6 | 10 | 11 | 0 | 37 | 20 | 9 | ${ }^{23}$ | 1 | 1 | ${ }^{2}$ | 1 | 4，001 |
|  | 13 | 367 | 530 | 0 | 135 | 98 | 1 | 0 | 0 | 11 | 0 | 126 | 2 | 0 | 171 | 4，544 | 1，003 | 49 | 97 | 61 | 63 | 182 | 2 | 12 | 209 | 1 | 116 | 1 | 1 | 225 | 352 | 28 | 2 | 3 | 2 | 0 | 110 | 130 | 61 | 31 | 1 | 1 | 3 | 1 | 8，73 |
| Suwgas kpy Q Univestity O． | 14 | 286 | 79 | 0 | 81 | 58 | 20 | 0 | 0 | 27 | 0 | 13 | 479 | 163 | 0 | 2，203 | 1，032 | 56 | 176 | 115 | 208 | 216 | 1 | 17 | 187 | 19 | 87 | 8 | 1 | 624 | 109 | 38 | 99 | 16 | 13 | 3 | 84 | 92 | 30 | 166 | 1 | 10 | 732 | 2 | 7，54 |
| Savgass Exp W．of funivesity or． | 15 | 2，176 | 75 | 0 | 154 | 110 | 47 | 0 | 0 | ${ }^{41}$ | 0 | 1 | 1，179 | 4，547 | 2，022 | 0 | 3，008 | 57 | 245 | 196 | 227 | 609 | 1 | 19 | 200 | 15 | 254 | 28 | 1 | 266 | 85 | 32 | 53 | 18 | 15 | 0 | ${ }^{61}$ | 104 | 19 | 184 | 1 | 15 | ${ }^{864}$ | 0 | 17，108 |
| ${ }^{1955}$ Nof femisisul crop．Or． | 16 | － | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 72 | 0 | 4，080 | 429 | 1，164 | 1，210 | 3，353 | 0 | 3，144 | 9，138 | 6，220 | 9，140 | 8，055 | 4，382 | 0 | 8 | 3 | 1，962 | 1，956 | 4，283 | 17，114 | 35 | 42 | 34 | 389 | 409 | 978 | 14 | 0 | 0 | 1 | 1 | 0 | ， | 27 | 7，699 |
|  | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 214 | 20 | 57 | 67 | 64 | 3，224 | 0 | 218 | 355 | 263 | 535 | 203 | 0 | 1 | 0 | 248 | 106 | 352 | 1，206 | 3 | 3 | 1 | 13 | 13 | 80 | 1 | 0 | 0 | 1 | 1 | 0 | 1 | 2 | 7，25 |
| ． 958 Q Vamato $\mathrm{od}$. ． | 18 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 379 | 39 | 105 | 192 | 255 | 10，826 | 253 | 0 | 860 | 768 | 1，043 | 496 | 0 | 2 | 1 | 553 | 315 | 491 | 4，87 | 11 | 12 | 1 | 19 | 24 | 195 | 1 | 0 | 0 | 1 | 1 | 0 | 1 | 5 | 21， |
| 1．95 CSpansh R River | 19 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 222 | 33 | 69 | 133 | 214 | 6，053 | 339 | 898 | 0 | 2 | 1，330 | 505 | 0 | 0 | 0 | 806 | 625 | 609 | 2，558 | 10 | 5 | 1 | 64 | 26 | 298 | 6 | 0 | 0 | 2 | 2 | 0 | 1 | 11 | 14，922 |
|  | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 195 | 75 | 75 | 251 | 261 | 9，369 | 265 | 844 | 2 | 0 | 324 | 1，306 | 1 | 10 | 2 | 2，447 | 1，105 | 1,726 | 3，400 | 49 | 53 | 0 | 28 | 28 | 820 | 2 | 0 | 0 | 1 | 1 | 0 | 1 | 15 | 22，59 |
| 1．95e Palmetoto Parks． | ${ }^{21}$ | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 362 | 1 | 204 | 246 | 658 | 7，422 | 484 | 1,031 | 1，250 | 289 | 0 | 1,046 | 1 | 4 | 1 | 2，216 | 1,101 | 1，787 | 2，738 | 24 | 34 | 1 | 64 | 39 | 563 | 7 | 0 | 0 | 2 | 2 | 0 | 1 | 16 | 2，594 |
| 1.55 ¢ ¢ilbsor 8 ind． | 22 | 2 | 19 | 0 | 2 | 1 | 1 | 0 | 1 | 2 | 0 | 0 | 1 | 1 | 1 | 1 | 3，990 | 181 | 484 | 469 | 1，153 | 984 | 0 | － | 0 | 0 | 1，280 | 1，500 | 2，423 | 4，914 | 1 | 1 | 0 | 4 | 2 | 2 | 0 | 0 | 0 | 2 | 2 | 0 | 1 | 1 | 17，288 |
|  | 23 | 1 | 3 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 14 | 2 | 4 | 6 | 6 | 3 | 0 | ， | 1 | 21 | 13 | 1 | 0 | 1，143 | 816 | 36 | 46 | 52 | 118 | 1 | 1 | 0 | 2 | 1 | 5 | 0 | 0 | 0 | 3 | 1 | 0 | 4 | 0 | 2，35 |
|  | 24 | 10 | 39 | 0 | 11 | 6 | 2 | 0 | 0 | 0 | 0 | 415 | 42 | 121 | 110 | 112 | 355 | 30 | 111 | 14 | 463 | 175 | 2 | 2，121 | 0 | 5，305 | 115 | 1，326 | 1，219 | 5，043 | 21 | ${ }^{23}$ | 0 | 44 | 26 | 128 | 6 | 2 | 1 | 107 | ${ }^{31}$ | 1 | ${ }^{67}$ | 11 | 17，6616 |
| Natura ind．S．of tw 10 | 25 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 1 | 0 | 9 | 7 | 118 | 3 | 31 | 13 | 71 | 35 | 1 | 1，197 | 4，208 | 0 | 0 | 22 | 23 | 74 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 1 | 0 | ${ }^{34}$ | 8 | 0 | 5 | 0 | 5.87 |
| 1.59 e Sample Rd． | 26 | 1 | 9 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 78 | 59 | 163 | 1，774 | 220 | 537 | 743 | 2，144 | 2.069 | 1,391 | 79 | 135 | 1 | 0 | 39 | 1，716 | 9，811 | 1 | 0 | 0 | 2 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 20，92 |
| $1.585^{\text {c Copans }}$ d． | 27 | 1 | 8 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 14 | 1 | 6 | 19 | 1，890 | 101 | 326 | 616 | 1，035 | 1，098 | 1，742 | 107 | 1，673 | 35 | 49 | 0 | 192 | 11，740 | 1 | 0 | 0 | 2 | 1 | 1 | 4 | 5 | 1 | 13 | 15 | 0 | 1 | 1 | 20，700 |
| $1.95{ }^{\text {e Alanicic ivd．}}$ | 28 | 1 | 8 | － | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 4，250 | 343 | 523 | 616 | 1，660 | 1.831 | 2，891 | 124 | 1，580 | 38 | 2，200 | 247 | 0 | 16，818 | 1 | 0 | 0 | 2 | 1 | 28 | 12 | 9 | 6 | 93 | 108 | 0 | 0 | 3 | ${ }^{33,398}$ |
|  | 29 | 281 | 125 | 0 | 60 | 34 | 69 | 0 | － | 0 | 0 | 0 | 143 | 151 | 423 | 172 | 15,531 | 1，075 | 4，743 | 2，459 | 2，991 | 2.565 | 5，359 | 257 | 5，974 | 110 | 11，500 | 13，812 | 15，117 | 0 | ${ }^{48}$ | 11 | 0 | 109 | 145 | 322 | 19 | 22 | 7 | 212 | 253 | 13 | 960 | 45 | 85,120 |
|  | 30 | 21 | ${ }^{36}$ | 0 | 21 | 26 | ${ }^{41}$ | 0 | 1 | 2 | 0 | 0 | 226 | 237 | 74 | 55 | 20 | 1 | 7 | 6 | 27 | 14 | 1 | 1 | 25 | 0 | 1 | 1 | 1 | 49 | 0 | 7 | ${ }^{61}$ | 4 | 3 | 7 | 5 | 8 | 2 | 18 | 1 | 0 | 35 | 0 | 1.043 |
|  | 31 | 9 | 17 | 0 | 17 | 12 | 15 | 0 | 1 | 1 | 0 | 0 | 27 | 24 | 32 | 26 | 30 | 2 | 9 | 4 | 37 | 25 | 1 | 1 | 33 | 0 | 0 | 0 | 0 | 13 | 9 | 0 | 246 | 4 | 4 | 1 | 7 | 9 | 4 | 33 | 0 | 1 | 68 | 0 | ${ }^{723}$ |
|  | 32 | 468 | 422 | 0 | 503 | 294 | 202 | 0 | 0 | 1 | 0 | 0 | 6 | 2 | 95 | 48 | 28 | 1 | 1 | 0 | ， | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | ， | 86 | 279 | 0 | 1 | ， | 0 | 1 | 1 | 0 | 0 | 0 | ${ }^{95}$ | 5，676 | 15 | ${ }^{8.22}$ |
|  | 33 | 7 | ${ }^{24}$ | 0 | 8 | 6 | 4 | 0 | 1 | 2 | 0 | 0 | 7 | 2 | 11 | 11 | 225 | 7 | 12 | 38 | 16 | 38 | 3 | 3 | 52 | 1 | 2 | 2 | 2 | 110 | 4 | 3 | 1 | 0 | 291 | 3 | 4 | 14 | 2 | 87 | 8 | 1 | 173 | 17 | 1，198 |
|  | 34 | 1 | 3 | 0 | 1 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 8 | 2 | 10 | 11 | 257 | 8 | 17 | 17 | 17 | 25 | 2 | 2 | 33 | 1 | 1 | 1 | 1 | 159 | 3 | 3 | 0 | 317 | 0 | 1 | 13 | 23 | 4 | 100 | 8 | 1 | 196 | 2 | 1，299 |
|  | 35 | 27 | 32 | 0 | 32 | 21 | 16 | 0 | 0 | 0 | 0 | 13 | 0 | 1 | 5 | 0 | 767 | 62 | 164 | 238 | 624 | 456 | 2 | 13 | 201 | 2 | 1 | 1 | 35 | 438 | 16 | 1 | 0 | 7 | 3 | 0 | 212 | 383 | 70 | 3，861 | 372 | 6 | 769 | 9 | 8，863 |
|  | 36 | 10 | 19 | 0 | ${ }^{12}$ | 8 | 7 | 0 | 0 | 1 | 0 | 232 | 51 | 146 | ${ }^{113}$ | 78 | 16 | 1 | 2 | 6 | 3 | 8 | 0 | 0 | 13 | 1 | 2 | 8 | ${ }^{21}$ | ${ }^{36}$ | 10 | 11 | 1 | 7 | ${ }^{23}$ | 309 | 0 | 2 | 0 | 6 | 19 | 2 | 360 | 4 | 1，547 |
|  | 37 | 6 | 20 | 0 | ${ }^{14}$ | 5 | 0 | 0 | 0 | 1 | 0 | 303 | 27 | 171 | 123 | 131 | ， | ， | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 2 | 2 | 8 | 15 | 41 | 15 | 14 | 1 | 27 | 42 | 554 | 2 | 0 | ${ }^{341}$ | 2 | 49 | 0 | 1 | 10 | 1.931 |
| Intemal one at Newoort Center | 38 | 3 | 9 | － | 7 | 3 | 0 | － | 0 |  | 0 | 139 | 13 | 86 | 43 | 25 | ， | 0 | ， | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 12 | 14 | 4 | 7 | 1 | 4 | 8 | 108 | 0 | 366 | 0 | 2 | 5 | 0 | 1 | 1 | ${ }_{868}$ |
| Militar tral N ．of tw woth st． | 39 | 6 | 11 | － | 8 | 3 | 0 | 0 | 0 | 1 | 0 | 345 | 20 | 26 | 142 | 150 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 8 | 157 | ${ }^{63}$ | 1 | 16 | 108 | 269 | 22 | 33 | 0 | 109 | 115 | 3，578 | 4 | 1 | 1 | 0 | 385 | 0 | 1 | 24 | 5.16 |
|  | 40 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | － | － | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 2 | 43 | ${ }^{13}$ | 1 | 17 | 117 | 299 | 1 | 0 | 0 | 9 | 8 | 322 | 11 | 29 | 3 | 360 | 0 | 0 | 1 | 1 | 1.253 |
|  | 41 | 33 | 39 | 0 | 31 | 20 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 2 | 10 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 19 | 1 | 1 | 102 | 2 | 1 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 2，599 | 3 | 2，890 |
| Poweline ed．．．．of West dr． | 42 | 228 | 164 | 0 | 182 | 59 | 2 | 0 | 1 | 3 | 0 | 0 | 2 | 3 | 729 | 818 | 4 | 1 | 1 | 1 | 1 | 1 | 1 | 12 | 115 | 10 | 1 | 1 | 1 | 1，412 | 51 | 80 | 5，902 | 254 | 264 | 461 | 268 | 1 | 1 | 1 | 1 | 2，521 | 0 | 390 | 13，94 |
| ntenal zoneat Powerine | 43 | 7 | 16 | 0 | 7 | 6 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 2 | 0 | 22 | 1 | 5 | 9 | 12 | 13 | 1 | 1 | 18 | 0 | 1 | 1 | 4 | 62 | 1 | 0 | 15 | 23 | 3 | 5 | 3 | 7 | 1 | 26 | 1 | 3 | 366 | 0 | ${ }_{6} 66$ |
| Total |  | 29，70 | 6，661 | 0 | 7，43 | 4,359 | 2,67 | 0 | 2，517 | 7，30 | 4,008 | 40，759 | 4,380 | 8，722 | 7，599 | 17，09］ | 75，47 | 6，901 | 20，38 | 14.556 | 21，473 | 22，01 | 19，32 | 40,06 | 16.93 | 6，458 | 23，00］ | 2，3，36 | 30,32 | 85，99 | 1,98 | 835 | 8.302 | 1，627 | 1，535 | 8，857 | 1.127 | 1．507 | 68 | 5，945 | 1,288 | 2，75 | ${ }^{13,488}$ | 658 | 568，881 |

## APPENDIX D

## Appendix D



## Appendix D



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## Appendix D



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## Appendix D



Base PD\&E Concept, A2, and C2-2020 DDHVs Turns Hillsboro Blvd and I-95 (S.R. 9)


Base PD\&E Concept, A2, and C2-2040 DDHVs Turns Hillsboro Blvd and I-95 (S.R. 9)


Base PD\&E Concept, A2, and C2-2020 DDHVs Turns Sample Rd and I-95 (S.R. 9)


Base PD\&E Concept, A2, and C2-2040 DDHVs Turns Sample Rd and I-95 (S.R. 9)


## Appendix E



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## APPENDIX F

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## Appendix F



# SW 10 ${ }^{\text {th }}$ Street Connector Project <br> Eastbound Weave Operations at the Connector Lane Egress Technical Memo 

| Date: | Monday, March 08, 2021 |
| ---: | :--- |
| Project: | SW 10 ${ }^{\text {th }}$ Street and I-95 Connector Design Consultant (CDC) |
| Prepared by: | Megan McGinley and Will Suero (HDR) |
| Subject: | SW 10 <br> Newport Center Drive, to the Newport Center Drive and I-95 Intersections |
| Attachments: | (2021) Traffic Analysis Presentation for Newport Center Drive Intersection Analysis <br> (2018) Alternatives Analysis Memorandum for SW 10 |

The intersection of SW $10^{\text {th }}$ Street at Newport Center Drive was reevaluated to determine whether a full intersection opening could provide acceptable operations and be implemented over a Restricted Crossing U-Turn (RCUT) intersection. A Vissim traffic analysis was conducted by the CDC Team in January 2021 where network-level segment speeds and intersection-level movement performance measures were compared for the Design Year of 2040. Prior to this Vissim analysis, the Intersection Control Evaluation (ICE) process and a Synchro analysis was conducted to screen potential intersection configurations. While the analyses (attached) showed that the full intersection configuration could still accommodate the 2040 traffic volumes, the purpose of this memo is to document:
(1) whether the weaving movement from the connector lane egress, west of Newport Center Drive, to the eastbound left-turn at SW 12 ${ }^{\text {th }}$ Ave/Newport Center Drive as well as the l-95 ramp terminal intersections is feasible based on traffic demand and design guidance, and
(2) how the full intersection opening affects traffic operations for the overall eastbound weave segment between the connector lane egress, west of Newport Center Drive, and the Newport Center Drive and I-95 ramp terminal intersection.


### 1.0 Background

There are three major documents relevant to this memo:

- I-95 at SW $10^{\text {th }}$ St PD\&E Study from south of SW $10^{\text {th }}$ Street to north of Hillsboro Boulevard (2020)
o FPID 436964-1
- SW $10^{\text {th }}$ Street Connector PD\&E Study from Military Trail to west of Powerline Road (2020)
o FPID 439891-1
- $\quad$ SW $10^{\text {th }}$ Street at I-95 Alternatives Analysis Memorandum (2018)
o FPID N/A, supporting documentation for 436964-1 \& 439891-1
It should be noted that the entire analysis in this 2021 memo is based on the 2040 Build volume set for the SW $10^{\text {th }}$ Street without Powerline Road Ramps Alternative (sometimes referred to as Scenario C2), which corresponds to Alternative 1 in the SW $10^{\text {th }}$ Street PD\&E and Alternative 2 A in the I-95 PD\&E.


### 1.1 SW 10 ${ }^{\text {th }}$ Street \& I-95 PD\&E Studies

Both PD\&E studies include Newport Center Drive as an analysis intersection. As of 2020, both studies documented the RCUT at Newport Center Drive as the Build Alternative. This memo, written in 2021, may result in the I-95 at SW $10^{\text {th }}$ St PD\&E Study revising the Build Alternative to include a full intersection opening for local SW $10^{\text {th }}$ St at Newport Center Dr.

In the SW $10^{\text {th }}$ Street Connector PD\&E Study, Vissim modeling was conducted where the weaving movement from the connector lane egress, west of Newport Center Drive, to the eastbound left-turn at SW $12^{\text {th }}$ Ave/Newport Center Drive was NOT permitted.

### 1.2 SW 10 ${ }^{\text {th }}$ Street Alternatives Analysis Memo

In 2018, an alternatives analysis (memorandum attached) was conducted for SW $10^{\text {th }}$ Street to determine the optimal managed lane ingress and egress configurations for Design Year 2040.

In the SW $10^{\text {th }}$ Street Connector PD\&E Study, Vissim modeling was conducted where the weaving movement from the connector lane egress, west of Newport Center Drive, to the eastbound left-turn at SW $12^{\text {th }}$ Ave/Newport Center Drive WAS permitted, based origin on destination volumes (OD) described later.

As part of the analysis, each of the ingress/egress configurations assumed the RCUT configuration at the SW $12^{\text {th }}$ Ave/Newport Center Drive intersection. The egress configurations considered for the location west of Newport Center Drive were:

- Inside Merge

- Both Sides Merge

- Outside Merge


To compare the egress configurations, the 2018 Alternatives Analysis Memorandum reported the overall 2040 model delay and the required minimum lane changes. The conclusion of the memo was that the Both Sides Egress Merge provided the best operating conditions. However, the Outside Egress Merge was the option carried into the SW $10^{\text {th }}$ Street Connector and I-95 at SW 10 ${ }^{\text {th }}$ St PD\&E studies.

### 2.0 Methodology

To evaluate the eastbound connector lane egress movement to the eastbound left-turn at SW $12^{\text {th }}$ Ave/Newport Center Drive, the OD demand was calculated using the 2018 Alternatives Analysis data, shown in Figure 1. The relative percentage distribution per movement was applied to the "without Powerline Road Ramps" 2040 volume set (Alternative 1 in the SW $10^{\text {th }}$ Street Connector PD\&E Study and Alternative 2A in the I-95/SW 10 ${ }^{\text {th }}$ St PD\&E).


| EL |  |
| :--- | :--- |
| GP | Traffic volumes in vehicles per hour (vph) |
| FDOT | Florida Department of Transportation |

41 percent express lane traffic weaving, and 611 vph minimum lane changes to reach destination 77 percent general-purpose lane traffic weaving, and $1,167 \mathrm{vph}$ minimum lane changes to reach destination

Figure 1. 2018 Alternatives Analysis Memo Origin-Destination Data

To evaluate the overall eastbound connector lane egress weave to the SW $12^{\text {th }}$ Ave/Newport Center Drive and the I-95 ramp terminal intersections, Vissim version 8.00-15 was used. The Vissim network was previously calibrated and driver behavior inputs are consistent with the Vissim model used in the 2018 Alternatives Analysis Memorandum and in the 2020 SW 10 ${ }^{\text {th }}$ Street Connector PD\&E Study. The simulation time was 3 hours with Measures of Effectiveness (MOEs) reported for the peak hour. The MOEs, listed below, were selected based on the MOEs used in the ongoing SW $10^{\text {th }}$ Street/I-95 PD\&E studies and in discussions with FDOT.

- Vissim - Average Speeds; Served Volume; Delay, LOS, and Queue Length


### 3.0 Alternative

The alternative analyzed was a full intersection opening at Newport Center Drive, as shown in Figure 2. Surface level streets are displayed in the grey and gold/brown color. The elevated $10^{\text {th }}$ Street connector lanes are represented by the blue color. This configuration for Newport Center Drive includes lane modifications relative to the existing configuration.


Figure 2. Full Intersection Opening Alternative for Newport Center Drive

### 4.0 Analysis Summary

The eastbound weave distance and 2040 segment volumes, as shown in Figure 3, are the same for the full intersection opening and the RCUT documented in the SW $10^{\text {th }}$ Street Connector PD\&E Study. The 2040 AM and PM peak hour turning movement volumes (TMVs) for the full intersection opening adjusts the RCUT northbound and southbound approaches to reflect the ability to turn left and through, shown in Figure 4. The full intersection TMVs were obtained from the source traffic forecasting conducted by Florida's Turnpike Enterprise (FTE). Note the RCUT TMVs were also developed from the FTE forecasts, however, there are some minor differences due to the RCUT configuration assuming some volume uses the SW $12^{\text {th }}$ Ave slip ramp.


Figure 3. Eastbound Weave Segment Volumes and Distances along SW $10^{\text {th }}$ Street

| RCUT <br> (from SW 10 ${ }^{\text {th }}$ St Connector PD\&E Study) | Full Opening (from source modeling by FTE) |
| :---: | :---: |
|  | 2040 AM Volume (veh/hr) <br> 2040 PM Volume (veh/hr) |

Figure 4. Newport Center Drive 2040 Design Year Traffic Volumes

### 4.1 Eastbound Weaving Movement from the Connector Lane Egress to the Eastbound Left-Turn at SW $12{ }^{\text {th }}$ Ave/Newport Center Drive

The relative OD percentages for the general purpose (GP) and express lane ${ }^{1}$ (EL) egress were calculated for the AM peak hour using the volumes provided in the 2018 Alternatives Analysis Memo. The AM peak hour was chosen for analysis since the eastbound egress and eastbound left turn volumes at SW 12th Ave/Newport Center Drive were higher than during the PM peak hour. The OD percentages for both the GP and EL egress are shown below in Figure 5.

The OD percentages were applied to the eastbound EL egress and GP volumes from the SW 10th Street Connector PD\&E Study to determine the eastbound left-turn volumes that originate from the EL egress or GP lanes. As shown in Figure 6, approximately 80 vehicles would originate from the EL egress.


Figure 5. Relative OD Percentages from the Alternatives Analysis Memo


Figure 6. Origin-Destination Volumes for the Eastbound Left-Turn from EL Egress

[^0]Given the potential demand for the weaving movement and the short distance of 325 feet to complete the movement, the FDOT Access Management Handbook and the Florida Design Manual (FDM) were reviewed for minimum weaving distance guidance prior to operational analysis.

The FDOT Access Management Handbook states that "drivers may make erratic maneuvers in areas where there is limited separation between the off-ramp and the median opening". The desirable weaving distance to overcome erratic behavior is shown in Figure 7, where the weaving distance for two lanes of traffic is 800 to 1,600 feet, assuming a weaving segment average speed of 34 to 45 miles per hour (mph). The Handbook does state that the weave section may be as low as 400 feet if average speeds can be reduced to 35 mph . However, given that the connector lane egress is a free-flow movement with a design and posted speed of 35 mph (based on the SW $10^{\text {th }}$ Street typical section package), 40 mph would be expected as the free-flow speed. Further, the 325 -foot distance violates the Florida Administrative Code standard that connection spacing be 440 feet for the context classification of this roadway (C3R).


Figure 7. FDOT Access Management Handbook Weaving Distance Guidance

The FDM also includes standard geometric details at ingress and egress locations. In FDM Exhibit 211-4, shown in Figure 8, there is a 1,000-foot minimum distance specified as the starting weave length.


Figure 8. FDM Exhibit 211-4 (Begin Express Lanes Typical Egress)

To confirm that a short weave distance was not operationally viable, a Vissim simulation for the AM peak hour was run, as shown in Figure 9. The simulation resulted in vehicles being forced to come to a full stop in the weave segment to allow for the eastbound egress to eastbound leftturn to be completed.


Figure 9. Vissim Simulation Snapshot for the Eastbound Egress to Left-Turn Movement
Overall, based on the FDOT guidance and operational simulation showing that vehicles must make a full stop in the weave segment, the eastbound egress weaving movement to the eastbound left-turn at SW $12^{\text {th }}$ Ave/Newport Center Drive should not be permitted. This restriction is consistent with the SW $10^{\text {th }}$ Street Connector PD\&E study modeling effort. The vehicles exiting the eastbound connector lane, with a destination of northbound SW $12^{\text {th }}$ Ave/Newport Center Drive, would be expected to make an eastbound right-turn at Newport Center Drive and use the Newport Center Drive and the SW $12{ }^{\text {th }}$ Avenue loop road below SW $10^{\text {th }} \mathrm{St}$, to reach the north side (SW $12^{\text {th }}$ Ave).

### 4.2 Eastbound Weave Segment from the Connector Lane Egress to the SW 12 ${ }^{\text {th }}$ Ave/Newport Center Drive and the I-95 Intersections

The overall eastbound weave segment operations were evaluated based on eastbound queueing in the weave segment and eastbound segment speeds. These metrics offer comparison to the previous efforts in the PD\&E studies where the RCUT configuration was assumed. The intersection of Newport Center Drive was modeled in Vissim as a connected system with the I-95 interchange ramps for synchronization purposes with the cycle lengths and offsets. Full interchange results, including delay and LOS, can be found as part of the Vissim analysis summary presentation in the Attachments.

### 4.2.1 Eastbound Weaving Volumes

The weaving OD volumes used in this Newport Center Drive full intersection analysis are displayed in Figure 10. Based on the insufficient weaving distance between the connector lane egress and the eastbound left-turn at SW $12^{\text {th }}$ Ave/Newport Center Drive, as identified in Section 4.1, the OD volume is assumed as zero for that movement. These are OD volumes are consistent with the SW $10^{\text {th }}$ Street Connector PD\&E study.


Figure 10. Weaving OD Volumes Used in Newport Center Drive Full Intersection Analysis

### 4.2.2 Eastbound Queueing in the Weave Segment

The eastbound queueing at the Newport Center Drive intersection is expected to interact with the ability to make weaving maneuvers by reducing the effective weave distance. While the entire segment length from the eastbound egress to the Newport Center Drive eastbound stop bar is 1,025 feet, that distance may be effectively reduced by a queue. The eastbound intersection queues are shown in Tables 1 and 2. The eastbound queueing for the full intersection configuration is similar to the RCUT configuration, although delays differ due to signal timing differences. The SW $10^{\text {th }}$ Street PD\&E utilized a 180 second cycle length and the Newport Center Drive alternatives analysis used a 150 second cycle length. Operational intersection results for the rest of the Newport Center Drive movements and the I-95 interchange are provided in the Attachments.

Table 1. Eastbound SW 10 ${ }^{\text {th }}$ Street at Newport Center Drive - 2040 AM Peak Hour Results

| SW 10 ${ }^{\text {th }}$ Street Intersection Location | Mvmnt | SW 10 ${ }^{\text {th }}$ St PD\&E (Newport as RCUT) |  |  |  | Alternative(Newport as Full Intersection) |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Served Volume | Max Queue (ft) | Delay and LOS |  | Served Volume | Max Queue (ft) | Delay and LOS |  |
|  |  |  |  | Mvmnt | App |  |  | Mvmnt | App |
| Newport <br> Center Dr <br> Eastbound | L | 359 | 315 | 84.0 (F) | 16.9 (B) | 345 | 281 | 66.2 (E) | 27.8 (C) |
|  | T | 1,776 | 640 | 6.0 (A) |  | 1,717 | 640 | 20.5 (C) |  |
|  | R | 545 | 640 | 9.0 (A) |  | 504 | 640 | 26.1 (C) |  |

Table 2. Eastbound SW $10^{\text {th }}$ Street at Newport Center Drive - 2040 PM Peak Hour Results

| SW 10 ${ }^{\text {th }}$ Street Intersection Location | Mvmnt | $\begin{aligned} & \text { SW 10 }{ }^{\text {th }} \text { St PD\&E } \\ & \text { (Newport as RCUT) } \end{aligned}$ |  |  |  | Alternative (Newport as Full Intersection) |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Served Volume | Max Queue (ft) | Delay and LOS |  | Served Volume | Max Queue (ft) | Delay and LOS |  |
|  |  |  |  | Mvmnt | App |  |  | Mvmnt | App |
| Newport <br> Center Dr <br> Eastbound | L | 92 | 164 | 55.0 (D) | 6.9 (A) | 91 | 109 | 73.4 (E) | 34.5 (C) |
|  | T | 1,837 | 613 | 5.0 (A) |  | 1,846 | 617 | 32.5 (C) |  |
|  | R | 83 | 613 | 5.0 (A) |  | 82 | 617 | 36.4 (D) |  |

The maximum eastbound through queue for the full intersection opening occurs in the AM peak hour and is 640 feet, which is the approximate distance shown below.


### 4.2.3 Eastbound Segment Speeds

The eastbound queue results are supported by the segment speeds, given that a queue is not expected to be present at all times. The segment speeds with Newport Center Drive as a full intersection versus Newport Center Drive as an RCUT is shown in Figures 11 and 12. The eastbound segment speeds remain similar, primarily experiencing 30-45 mph immediately entering the weave, and reducing to $15-30 \mathrm{mph}$ approaching the Newport Center Drive signal. It is also noted that the southbound exit ramp experiences additional slowdowns ( $<15 \mathrm{mph}$ ) in the Full Intersection option, which is indicative of increased queuing. Maximum ramp queues are summarized in the next Section 4.2.4.


Figure 11. Eastbound SW 10 ${ }^{\text {th }}$ Street at Newport Center Drive - 2040 AM Peak Hour Segment Speeds

In the PM peak hour, the segment speeds entering the weave segment for the full intersection opening are also similar to the RCUT. However, the full intersection option experiences sustained $15-30 \mathrm{mph}$ speeds through the majority of the weave segment, which is lower than the RCUT. This is primarily due to the shorter cycle length and increased side street signal time required to serve Newport Center Drive, which has higher northbound and southbound volumes in the PM peak hour. It is also noted that the southbound exit ramp experiences additional slowdowns ( $<15 \mathrm{mph}$ ) in the Full Intersection option, which is indicative of increased queuing. Maximum ramp queues are summarized in Section 4.2.4.


> Newport Analysis Results Newport as Full Intersection


Figure 12. Eastbound SW 10 ${ }^{\text {th }}$ Street at Newport Center Drive - 2040 PM Peak Hour Segment Speeds

### 4.2.4 I-95 Interchange Exit-Ramp Terminal Queues

The southbound and northbound exit ramp queues are compared in Table 3 and Table 4. The queues for the Full Intersection option remain within the available storage distance for all but one movement - the southbound approach in the PM peak hour. For this movement, the maximum queue is approximately 1 car length beyond the storage distance ( 648 feet of queue versus 625 feet of storage). Visual observation of the traffic simulation indicated this maximum queue occurred only rarely during the peak hour. Also, for this approach, there is an additional $1,000+$ feet beyond the 625 -foot storage bay distance, prior to the physical I-95 gore point. Given that configuration and the low occurrence of the maximum queue relative to an average queue, gore modifications are not anticipated. Full interchange results, including delay and LOS, can be found as part of the Vissim analysis summary presentation in the Attachments.

Table 3. I-95 at SW 10 ${ }^{\text {th }}$ Street Interchange Exit Ramps - 2040 PM Peak Hour Results

| I-95 Ramps at SW 10 ${ }^{\text {th }}$ Street | Mvmnt | SW 10 ${ }^{\text {th }}$ St PD\&E (Newport as RCUT) |  |  | Alternative(Newport as Full Intersection) |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Served Volume | Max Queue <br> (ft) | Storage Distance <br> (ft) | Served Volume | Max Queue (ft) | Storage Distance (ft) |
| Northbound Exit Ramp | NBL | 520 | 232 | 425 | 524 | 223 | 425 |
|  | NBR | 691 | 294 |  | 676 | 276 |  |
| Southbound Exit Ramp | SBL | 295 | 233 | 625 | 281 | 391 | 625 |
|  | SBR | 572 | 233 |  | 583 | 391 |  |

Table 4. I-95 at SW 10 ${ }^{\text {th }}$ Street Interchange Exit Ramps - 2040 PM Peak Hour Results

| I-95 Ramps at SW $10^{\text {th }}$ Street | Mvmnt | SW 10 ${ }^{\text {th }}$ St PD\&E (Newport as RCUT) |  |  | Alternative(Newport as Full Intersection) |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Served Volume | Max Queue <br> (ft) | Storage Distance (ft) | Served Volume | Max Queue (ft) | Storage Distance (ft) |
| Northbound Exit Ramp | NBL | 768 | 364 | 425 | 770 | 298 | 425 |
|  | NBR | 479 | 228 |  | 465 | 212 |  |
| Southbound Exit Ramp | SBL | 409 | 333 | 625 | 396 | 648 | 625 |
|  | SBR | 835 | 333 |  | 847 | 648 |  |

### 5.0 Conclusion

The purpose of this memo was to document:
(1) whether the weaving movement from the connector lane egress, west of SW $12^{\text {th }}$ Ave/Newport Center Drive, to the eastbound left-turn at SW $12^{\text {th }}$ Ave/Newport Center Drive is feasible based on traffic demand and design guidance, and
(2) how the full intersection opening affects traffic operations for the overall eastbound weave segment between the connector lane egress, west of Newport Center Drive, and the Newport Center Drive and I-95 intersections.

In response to those two points, key findings of the traffic operational analysis conducted for the Newport Center Drive Full Intersection Opening and its impact on the eastbound weave components are:
(1) The weaving movement demand from the connector lane egress to the eastbound leftturn at SW $12^{\text {th }}$ Ave/Newport Center Drive could be expected to be approximately 80 vehicles, if permitted. However, it is recommended that this weave movement be physically prohibited due to design concerns and inability to meet recommended minimum weave distances in the FDOT Access Management Handbook and the FDM.
a. This memo is anticipated to result in a design change to the previous Build Configuration in the PD\&E Studies. The design change would shift the Newport Center Drive eastbound left-turn turn bay access west (upstream of the connector lane egress) to physically prohibit connector lane traffic from being able to access to turn bay.
(2) When compared to the RCUT, the full intersection opening at Newport Center Drive results in similar traffic operations for the eastbound queueing and segment speeds. Therefore, the overall eastbound weave segment, from the connector lane egress to the Newport Center Drive intersection and the I-95 interchange is not anticipated to be adversely impacted when compared to the RCUT.

It should also be noted that while no adverse impacts are expected at the I-95 ramp terminals with the Full Intersection configuration, the RCUT configuration does provides residual capacity beyond the design year, as supported by the more favorable speeds and queuing shown in Figures 11 and 12.

## Attachments

SW 10 ${ }^{\text {th }}$ Street CDC - Newport Center Drive Intersection Control Evaluation (ICE)
 Intersection Control Evaluation (ICE)

2016 AM

| TYPE OF INTERSECTION | Overall VIC Ratio | VIC Ranking | $\begin{aligned} & \text { Multimodal } \\ & \text { Score } \end{aligned}$ | Pedestrian Accommodations | Bicycle Accommodations | Transit Accommodations |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Signalized Restricted Crossing U- Turn E-W | 0.46 | 1 | 6.3 | Cood | Cood | Fair |
| Median U-Turn E-W | 0.56 | 2 | 6.3 | cood | Coed | Fair |
| Quadrant Roadway N-W | 0.57 | 3 | 4.4 | Fair | Fair | Fair |
| Partial Median U-Turn E-W | 0.58 | 4 | 6.3 | Good | Cood | Fair |
| Quadrant Roadway S.W | 0.59 | 5 | 4.4 | Fair | Fair | Fair |
| Traffic Signal | 0.83 | 6 | 4.8 | Fair | Fair | cood |
| -- | -- | -- | -- | -- | -- | -- |
| -- | - | -- | -- | -- | -- | -- |
| -- | - | -- | -- | -- | -- | -- |
| - | - | -- | -- | -- | -- | -- |

2016 PM

| TYPE OF INTERSECTION | Overall VIC Ratio | VIC Ranking | Multimodal Score | Pedestrian Accommodations | Bicycle Accommodations | Transit Accommodations |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Median U-Turn E-W | 0.55 | 1 | 6.3 | Good | Good | Fair |
| $\begin{gathered} \text { Signalized Restricted Crossing U- } \\ \text { Turn E-W } \\ \hline \end{gathered}$ | 0.56 | 2 | 6.3 | Good | Geod | Fair |
| Quadrant Roadway S.W | 0.58 | 3 | 4.4 | Fair | Fair | Fair |
| Quadrant Roadway N-W | 0.64 | 4 | 4.4 | Fair | Fair | Fair |
| Partial Median U-Turn E-W | 0.75 | 5 | 6.3 | Good | Geod | Fair |
| Traffic Signal | 1.09 | 6 | 4.8 | Fair | Fair | Cood |
| - - | -- | -- | -- | -- | - | -- |
| -- | - | -- | -- | -- | -- | -- |
| -- | -- | -- | -- | -- | -- | -- |
| - | - | -- | -- | -- | -- | -- |

## Notes:

1. Existing Configuration Assumed
2. While some configurations listed may not be geometrically feasible, they were included for this initial capacity screening comparison.

2040 AM(PM) Volume (veh/hr)


SW 10th Street CDC - Newport Center Drive Intersection Control Evaluation (ICE)

2040 AM

| TYPE OF INTERSECTION | Overall VIC Ratio | VIC <br> Ranking | Multimodal Score | Pedestrian Accommodations | Bicycle Accommodations | Transit Accommodations |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Signalized Restricted Crossing U- <br> Turn E-W | 0.55 | 1 | 6.3 | Coed | Coed | Fair |
| Quadrant Roadway N-W | 0.62 | 2 | 4.4 | Fair | Fair | Fair |
| Traffic Signal | 0.66 | 3 | 4.8 | Fair | Fair | Coed |
| Median U-Turn E-W | 0.71 | 4 | 6.3 | Coed | Coed | Fair |
| Quadrant Roadway S-W | 0.76 | 5 | 4.4 | Fair | Fair | Fair |
| Partial Median U-Turn E-W | 0.76 | 5 | 6.3 | Coed | Coed | Fair |
| -- | -- | -- | -- | -- | -- | -- |
| -- | -- | -- | -- | -- | -- | -- |
| -- | -- | -- | -- | -- | -- | -- |
| -- | -- | -- | -- | -- | -- | -- |

## 2040 PM

| TYPE OF INTERSECTION | $\begin{gathered} \text { Overall } \\ \text { V/C } \\ \text { Ratio } \end{gathered}$ | VIC Ranking | $\begin{aligned} & \text { Multimodal } \\ & \text { Score } \end{aligned}$ | Pedestrian Accommodations | Bicycle Accommodations | Transit Accommodations |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Median U-Turn E-W | 0.48 | 1 | 6.3 | Cood | Cood | Fair |
| Signalized Restricted Crossing UTurn E-W | 0.58 | 2 | 6.3 | Good | Good | Fair |
| Quadrant Roadway S.W | 0.59 | 3 | 4.4 | Fair | Fair | Fair |
| Quadrant Roadway N-W | 0.69 | 4 | 4.4 | Fair | Fair | Fair |
| Partial Median U-Turn E-W | 0.79 | 5 | 6.3 | Good | Cood | Fair |
| Traffic Signal | 1.12 | 6 | 4.8 | Fair | Fair | Cood |
| - | -- | -- | -- | -- | -- | -- |
| - | -- | -- | -- | -- | -- | -- |
| - | -- | -- | -- | -- | -- | -- |
| - | - | -- | -- | -- | -- | -- |

## Notes:

1. Ultimate 95 Ramp Configuration Assumed
2. While some configurations listed may not be geometrically feasible, they were included for this initial capacity screening comparison.

2040 AM Volume (veh/hr)


## Intersection Alternatives Analysis (for Ultimate Configuration)

December 17th, 2020


## Agenda

- Alternatives Analyzed
- Analysis Results
- Intersection LOS and V/C Ratios
- Critical Movement Queue Lengths
- Sensitivity Analysis Overview
- Recommendations and Next Steps (Vissim)


## Analysis Approach

- 4 Newport Center Drive Alternatives vetted in Synchro for Design Year 2040
- Overall analysis includes: Newport Center Drive, I-95 West Ramp Terminal, I-95 East Ramp Terminal
- Corridor signals optimized and coordinated



## SW 10 ${ }^{\text {th }}$ Street CDC - Newport Center Drive Intersection Alternatives Analysis



Alternative 4
NBL \& SBL Allowed, but NBT \& SBT Prohibited



SW 10 ${ }^{\text {th }}$ Street CDC - Newport Center Drive Intersection Alternatives Analysis

Signal Phasing


4-Phase Signal
New movement permitted (compared to the RCUT)

3-Phase Signal

3-Phase Signal

Alternative 1 Full Intersection Opening (With Lane Modifications) Allow NBL Only


Alternative 3 Allow SBL Only



SW 10th Street CDC - Newport Center Drive Intersection Alternatives Analysis

DRAFT



## FDOTY SW 10 th Street CDC - Newport Center Drive Intersection Alternatives Analysis

DRAFT

PD\&E Design RCUT


## Alternative 1

Full Intersection

## Opening

 (With Lane Modifications)m667 (\#822) ft


SB:


NB:
324 (426) ft


Alternative 2 Allow NBL

Alternative 3 Allow SBL
m483 (495) ft

## Alternative 4

 NBL \& SBL Allowed, but NBT \& SBT Prohibitedm560 (\#897) ft


## Legend \& Notes

\# = volume exceeds capacity, queue may be longer $\mathrm{m}=$ metered by upstream signal

New movement permitted (compared to the RCUT)

2040 AM Volume (veh/hr)


$$
2040 \text { PM Volume (veh/hr) }
$$




Alternative 1 Full Intersection Opening (With Lane Modifications)

SW 10 ${ }^{\text {th }}$ Street CDC - Newport Center Drive Intersection Alternatives Analysis
Sensitivity Analysis for FULL Intersection Alternative



## Legend \& Notes

\# = volume exceeds capacity, queue may be longer $\mathrm{m}=$ metered by upstream signal

New movement permitted (compared to the RCUT)
2035 AM Volume (veh/hr)

| 2035 PM Volume (veh/hr) |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $\stackrel{496}{\leftarrow}$ |  |  | $\uparrow \quad 110$ |  |  |
|  | 5 | 136 | $\longleftarrow$ | 1,755 |  |
|  | $\downarrow$ | $\longrightarrow$ | $\downarrow$ | 119 |  |
|  |  |  |  |  |  |
|  |  |  |  | SW 10 ${ }^{\text {th }}$ |  |
|  |  |  |  |  |  |
|  | 88 | $\stackrel{4}{4}$ | $\leftarrow$ | $\uparrow$ | $\stackrel{ }{ }$ |
|  | 1,766 | $\rightarrow$ |  | 14 |  |
|  | 79 | $\checkmark$ - |  |  |  |
|  |  | © |  |  |  |
|  |  | $\stackrel{\rightharpoonup}{\square}$ |  |  |  |
|  |  |  | 6 |  |  |

## SW 10 ${ }^{\text {th }}$ Street CDC - Newport Center Drive

 Intersection Alternatives Analysis
## Overall Findings

- At the I-95 Interchange:
- Operations remain fairly consistent between the alternatives analysis in Synchro
- At Newport Center Drive:
- Alternative 1, the full intersection opening with modifications to the existing striping, could have a service life through 2030/2035.
- Alternative 2 that allows a NBL may be operationally feasible, but will preclude pedestrian crossings through the center median.
- Alternative 3 that allows a SBL is not operationally sufficient (V/C >1 and EBT queue nears storage).
- Alternative 4 that prohibits the NBT and SBT is operationally promising, but designing the intersection to prohibit those movements needs further consideration.


SW 10 ${ }^{\text {th }}$ Street CDC - Newport Center Drive Intersection Alternatives Analysis

Recommendations

To meet local stakeholder expectations, evaluate Alternative 1 or
Alternative 4 as an alternative to the RCUT.

## PD\&E Design




## Intersection Alternatives Analysis (for Ultimate Configuration)



## Agenda

- Analysis Results
- Intersection Queue Lengths
- Intersection LOS
- Traffic flow between Newport Center Drive, the Connector Lanes, and the System Interchange
- Recommendations and Discussion


## Analysis Approach

- Modeled 2035 and 2040 AM and PM in Vissim 8
- Overall analysis includes: Newport Center Drive, I-95 West Ramp Terminal, I-95 East Ramp Terminal
- Corridor signals used timing from Synchro, adjusted splits as needed

Alternative 1-Full Intersection Opening (With Lane Modifications Relative to Existing Condition)


SW 10 ${ }^{\text {th }}$ Street CDC - Newport Center Drive Intersection Alternatives Analysis

## PD\&E Design - RCUT

Alternative 1 - Full Intersection Opening (With Lane Modifications Relative to Existing Condition)


Legend \& Notes

Legend
$<15 \mathrm{mph}$
$15-30 \mathrm{mph}$
$30-45 \mathrm{mph}$
> 45 mph

2040 PM Volume (veh/hr)

| $\begin{array}{rr} 545 & 5 \\ \leftarrow & \downarrow \end{array}$ | $\stackrel{150}{\longrightarrow}$ | $\stackrel{L}{\leftarrow}$ | $\begin{aligned} & 120 \\ & 1,815 \\ & 125 \end{aligned}$ |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  | SW 10 ${ }^{\text {th }}$ St |  |  |
| 95 | $\stackrel{4}{4}$ | $\leftarrow$ | $\uparrow$ | $\stackrel{ }{ }$ |
| 1,870 | $\rightarrow$ | 435 | 15 | 470 |
| 85 | $\nabla$ | $\overbrace{0}$ |  |  |



SW 10 ${ }^{\text {th }}$ Street CDC - Newport Center Drive Intersection Alternatives Analysis

## PD\&E Design - RCUT



Alternative 1 - Full Intersection Opening (With Lane Modifications Relative to Existing Condition)


Legend \& Notes

Legend
< 15 mph
$15-30 \mathrm{mph}$
$30-45 \mathrm{mph}$
$>45 \mathrm{mph}$

2040 AM Volume (veh/hr)


SW 10 ${ }^{\text {th }}$ Street CDC - Newport Center Drive Intersection Alternatives Analysis

Alternative 1 - Full Intersection Opening (With Lane Modifications Relative to Existing Condition)


Screenshot taken during the peak hour, upon the start of the eastbound and westbound signal phase

Traffic Simulation of Alternative 1

Alternative 1 - Full Intersection Opening (With Lane Modifications Relative to Existing Condition)


```
PD&E Design - RCUT
```



2-Phase Signal

Alternative 1 - Full Intersection Opening (With Lane Modifications Relative to Existing Condition)


4-Phase Signal

SW 10 ${ }^{\text {th }}$ Street CDC - Newport Center Drive Intersection Alternatives Analysis

PM Vissim Results

| $\begin{array}{r} 2040 \mathrm{PI} \\ \text { VS. } 2040 \mathrm{PI} \end{array}$ |  |  | 2040 PTAR <br> (Newport as RCUT) |  |  |  |  | 2040 Alternative 1 <br> (Newport as Full Intersection) |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Movement | Volume | Max Queue | Delay and LOS (s/veh) |  |  | Volume | Max Queue | Delay and LOS (s/veh) |  |  |
| Int | Approach |  |  |  | Movement | Approach | Int |  |  | Movement | Approach | Int |
| Newport Center Dr | EB | L | 92 | 164 | 55 (D) | 6.9 (A) | 15.2 (B) | 91 | 109 | 73.4 (E) | 34.5 (C) | 27.5 (C) |
|  |  | T | 1,837 | 613 | 5 (A) |  |  | 1,846 | 617 | 32.5 (C) |  |  |
|  |  | R | 83 | 613 | 5 (A) |  |  | 82 | 617 | 36.4 (D) |  |  |
|  | WB | L | 125 | 66 | 19 (B) | 4.5 (A) |  | 125 | 138 | 82.1 (F) | 19.5 (B) |  |
|  |  | T | 1,775 | 286 | 4 (A) |  |  | 1,794 | 597 | 16.3 (B) |  |  |
|  |  | R | 115 | 0 | 2 (A) |  |  | 117 | 0 | 3 (A) |  |  |
|  | NB | L | 591 | 322 | 49 (D) | 49.4 (D) |  | 454 | 338 | 48.7 (D) | 32.8 (C) |  |
|  |  | T |  |  |  |  |  | 18 | 246 | 45 (D) |  |  |
|  |  | R |  |  |  |  |  | 489 | 355 | 17.6 (B) |  |  |
|  | SB | L | 740 | 256 | 40 (D) | 39.7 (D) |  | 137 | 292 | 42.5 (D) | 22.6 (C) |  |
|  |  | T |  |  |  |  |  | 5 | 292 | 56.4 (E) |  |  |
|  |  | R |  |  |  |  |  | 529 | 292 | 17.2 (B) |  |  |
| I-95 Ramps at SW 10th Street | EB | L | 827 | 620 | 25 (C) | 26.3 (C) | 34 (C) | 840 | 385 | 12.3 (B) | 18 (B) | 32 (C) |
|  |  | T | 895 | 400 | 45 (D) |  |  | 919 | 370 | 34.6 (C) |  |  |
|  |  | R | 699 | 0 | 3 (A) |  |  | 708 | 8 | 3.1 (A) |  |  |
|  | WB | L | 752 | 178 | 50 (D) | 24.3 (C) |  | 755 | 215 | 40.8 (D) | 27.2 (C) |  |
|  |  | T | 931 | 178 | 10 (A) |  |  | 928 | 215 | 24.6 (C) |  |  |
|  |  | R | 305 | 34 | 5 (A) |  |  | 297 | 0 | 1.1 (A) |  |  |
|  | NB | L | 520 | 232 | 48 (D) | 50.1 (D) |  | 524 | 223 | 47.6 (D) | 47.6 (D) |  |
|  |  | R | 691 | 294 | 52 (D) |  |  | 676 | 276 | 47.7 (D) |  |  |
|  | SB | L | 295 | 233 | 111 (F) | 55 (D) |  | 281 | 391 | 62.1 (E) | 61.4 (E) |  |
|  |  | R | 572 | 233 | 26 (C) |  |  | 583 | 391 | 61 (E) |  |  |

Findings

WBT Max Queue increases but remains within the storage distance (~900 feet)

## LOS F

Key movement for result comparison
Notes: (1) Signal timing and cycle lengths differ between the RCUT and the Full Intersection; the l-95 ramp terminal delay is slightly improved due to the signal timing differences. (2) The volume column confirms that the expected demand is reaching the intersections/interchanges.

SW 10th Street CDC - Newport Center Drive Intersection Alternatives Analysis

PM Vissim Results

| $\begin{array}{r} 2040 \text { PIVI } 2035 \text { PS. } 201 \end{array}$ |  |  | 2040 PTAR <br> (Newport as RCUT) |  |  |  |  | 2035 Alternative 1 <br> (Newport as Full Intersection) |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Approach | Movement | Volume | Max Queue | Delay and LOS (s/veh) |  |  | Volume | Max Queue | Delay and LOS (s/veh) |  |  |
| Intersection |  |  |  |  | Movement | Approach | Int |  |  | Movement | Approach | Intersecti on |
| Newport Center Dr | EB | L | 92 | 164 | 55 (D) | 6.9 (A) | 15.2 (B) | 87 | 116 | 70.7 (E) | 29.1 (C) | 24.6 (C) |
|  |  | T | 1,837 | 613 | 5 (A) |  |  | 1,693 | 586 | 27 (C) |  |  |
|  |  | R | 83 | 613 | 5 (A) |  |  | 79 | 586 | 29.6 (C) |  |  |
|  | WB | L | 125 | 66 | 19 (B) | 4.5 (A) |  | 113 | 114 | 81.5 (F) | 17.6 (B) |  |
|  |  | T | 1,775 | 286 | 4 (A) |  |  | 1,651 | 570 | 14.2 (B) |  |  |
|  |  | R | 115 | 0 | 2 (A) |  |  | 114 | 0 | 2.9 (A) |  |  |
|  | NB | L | 591 | 322 | 49 (D) | 49.4 (D) |  | 396 | 335 | 50.4 (D) | 32.9 (C) |  |
|  |  | T |  |  |  |  |  | 16 | 242 | 42.2 (D) |  |  |
|  |  | R |  |  |  |  |  | 408 | 351 | 15.5 (B) |  |  |
|  | SB | L | 740 | 256 | 40 (D) | 39.7 (D) |  | 124 | 262 | 48.6 (D) | 21.1 (C) |  |
|  |  | T |  |  |  |  |  | 4 | 262 | 45.1 (D) |  |  |
|  |  | R |  |  |  |  |  | 458 | 262 | 13.4 (B) |  |  |
| I-95 Ramps at SW 10th Street | EB | L | 827 | 620 | 25 (C) | 26.3 (C) | 34 (C) | 782 | 640 | 13.7 (B) | 18.4 (B) | 30.9 (C) |
|  |  | T | 895 | 400 | 45 (D) |  |  | 814 | 373 | 34.5 (C) |  |  |
|  |  | R | 699 | 0 | 3 (A) |  |  | 643 | 25 | 3.8 (A) |  |  |
|  | WB | L | 752 | 178 | 50 (D) | 24.3 (C) |  | 671 | 182 | 38.7 (D) | 25.1 (C) |  |
|  |  | T | 931 | 178 | 10 (A) |  |  | 863 | 182 | 22.6 (C) |  |  |
|  |  | R | 305 | 34 | 5 (A) |  |  | 286 | 0 | 1.1 (A) |  |  |
|  | NB | L | 520 | 232 | 48 (D) | 50.1 (D) |  | 495 | 197 | 42.2 (D) | 42.9 (D) |  |
|  |  | R | 691 | 294 | 52 (D) |  |  | 607 | 244 | 43.5 (D) |  |  |
|  | SB | L | 295 | 233 | 111 (F) | 55 (D) |  | 263 | 397 | 66 (E) | 63 (E) |  |
|  |  | R | 572 | 233 | 26 (C) |  |  | 519 | 397 | 61.5 (E) |  |  |

## LOS F

Key movement for result comparison
Notes: (1) Signal timing and cycle lengths differ between the RCUT and the Full Intersection; the l-95 ramp terminal delay is slightly improved due to the signal timing differences. (2) The volume column confirms that the expected demand is reaching the intersections/interchanges.

SW 10th Street CDC - Newport Center Drive Intersection Alternatives Analysis

## AM Vissim Results

| $\text { vs. } 2040$ |  |  | 2040 PTAR <br> (Newport as RCUT) |  |  |  |  | 2040 Alternative 1 <br> (Newport as Full Intersection) |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Intersection | Approach | Movement | Volume | Max Queue | Delay and LOS (s/veh) |  |  | Volume | Max Queue | Delay and LOS (s/veh) |  |  |
|  |  |  |  |  | Movement | Approach | Int |  |  | Movement | Approach | Int |
| Newport Center Dr | EB | L | 359 | 315 | 84 (F) | 16.9 (B) | 14.4 (B) | 345 | 281 | 66.2 (E) | 27.8 (C) | 23.7 (C) |
|  |  | T | 1,776 | 640 | 6 (A) |  |  | 1,717 | 640 | 20.5 (C) |  |  |
|  |  | R | 545 | 640 | 9 (A) |  |  | 504 | 640 | 26.1 (C) |  |  |
|  | WB | L | 431 | 208 | 28 (C) | 9.1 (A) |  | 431 | 292 | 73.4 (E) | 19 (B) |  |
|  |  | T | 1,852 | 254 | 6 (A) |  |  | 1,867 | 313 | 9.9 (A) |  |  |
|  |  | R | 428 | 60 | 4 (A) |  |  | 428 | 0 | 3.8 (A) |  |  |
|  |  | L |  |  |  |  |  | 88 | 105 | 68.2 (E) |  |  |
|  | NB | T | 178 | 107 | 41 (D) | 40.7 (D) |  | 11 | 10 | 37.9 (D) | 29.5 (C) |  |
|  |  | R |  |  |  |  |  | 135 | 122 | 3.6 (A) |  |  |
|  |  | L |  |  |  |  |  | 55 | 158 | 65.6 (E) |  |  |
|  | SB | T | 140 | 112 | 35 (C) | 35.3 (D) |  | 12 | 158 | 68.9 (E) | 31.2 (C) |  |
|  |  | R |  |  |  |  |  | 89 | 158 | 4.8 (A) |  |  |
|  |  | L | 532 | 369 | 19 (B) |  |  | 518 | 408 | 15.1 (B) |  |  |
|  | EB | T | 886 | 354 | 54 (D) | 30 (C) |  | 867 | 379 | 47.8 (D) | 26.4 (C) |  |
|  |  | R | 537 | 0 | 1 (A) |  |  | 517 | 0 | 1.9 (A) |  |  |
|  |  | L | 766 | 392 | 103 (F) |  |  | 773 | 197 | 43.6 (D) |  |  |
| I-95 Ramps at | WB | T | 1,109 | 392 | 21 (C) | 47.3 (D) | 43.6 (D) | 1,108 | 197 | 34.7 (C) | 33.6 (C) | 38.8 (D) |
| SW 10th Street |  | R | 282 | 142 | 1 (A) |  | 43.6 (D) | 274 | 0 | 1 (A) |  | (D) |
|  | NB | L | 768 | 364 | 58 (E) |  |  | 770 | 298 | 53.8 (D) |  |  |
|  | NB | R | 479 | 228 | 52 (D) | 55.9 (E) |  | 465 | 212 | 49.1 (D) | 52 (D) |  |
|  | SB | L | 409 | 333 | 72 (E) | 46 (D) |  | 396 | 648 | 51.4 (D) | 53.5 (D) |  |
|  |  | R | 835 | 333 | 33 (C) | 46 (D) |  | 847 | 648 | 54.5 (D) | 53.5 (D) |  |

## LOS F

## Key movement for result comparison

Findings

EBT and WBL delay increases, but max queue remains similar to the RCUT

SB exit ramp queues increase but remain near the storage distance (~625 feet before single lane section and additional 1,000+ feet after)

Notes: (1) Signal timing and cycle lengths differ between the RCUT and the Full Intersection; the I-95 ramp terminal delay is slightly improved due to the signal timing differences. (2) The volume column confirms that the expected demand is reaching the intersections/interchanges.

SW 10th Street CDC - Newport Center Drive Intersection Alternatives Analysis

## AM Vissim Results

| 2040$\text { vs. } 2035$ |  |  | 2040 PTAR <br> (Newport as RCUT) |  |  |  |  | 2035 Alternative 1 <br> (Newport as Full Intersection) |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Intersection | Approach | Movement | Volume | Max Queue | Delay and LOS (s/veh) |  |  | Volume | Max Queue | Delay and LOS (s/veh) |  |  |
|  |  |  |  |  | Movement | Approach | Int |  |  | Movement | Approach | Int |
| Newport Center Dr | EB | L | 359 | 315 | 84 (F) | 16.9 (B) | 14.4 (B) | 342 | 274 | 66.5 (E) | 27.9 (C) | 23.8 (C) |
|  |  | T | 1,776 | 640 | 6 (A) |  |  | 1,668 | 650 | 20.4 (C) |  |  |
|  |  | R | 545 | 640 | 9 (A) |  |  | 494 | 650 | 26.3 (C) |  |  |
|  | WB | L | 431 | 208 | 28 (C) | 9.1 (A) |  | 415 | 294 | 74.4 (E) | 19 (B) |  |
|  |  | T | 1,852 | 254 | 6 (A) |  |  | 1,789 | 302 | 9.7 (A) |  |  |
|  |  | R | 428 | 60 | 4 (A) |  |  | 406 | 0 | 3.4 (A) |  |  |
|  |  | L |  |  |  |  |  | 82 | 103 | 68.8 (E) |  |  |
|  | NB | T | 178 | 107 | 41 (D) | 40.7 (D) |  | 11 | 10 | 43.6 (D) | 29.6 (C) |  |
|  |  | R |  |  |  |  |  | 127 | 120 | 3.1 (A) |  |  |
|  |  | L |  |  |  |  |  | 52 | 161 | 65.3 (E) |  |  |
|  | SB | T | 140 | 112 | 35 (C) | 35.3 (D) |  | 11 | 161 | 68.6 (E) | 31.1 (C) |  |
|  |  | R |  |  |  |  |  | 84 | 162 | 5 (A) |  |  |
|  |  | L | 532 | 369 | 19 (B) |  |  | 502 | 368 | 15.2 (B) |  |  |
|  | EB | T | 886 | 354 | 54 (D) | 30 (C) |  | 831 | 406 | 46.1 (D) | 25.6 (C) |  |
|  |  | R | 537 | 0 | 1 (A) |  |  | 499 | 0 | 1.9 (A) |  |  |
|  |  | L | 766 | 392 | 103 (F) |  |  | 735 | 184 | 42.3 (D) |  |  |
| I-95 Ramps at | WB | T | 1,109 | 392 | 21 (C) | 47.3 (D) |  | 1,056 | 184 | 33.4 (C) | 32.5 (C) | 379 (D) |
| SW 10th Street |  | R | 282 | 142 | 1 (A) |  |  | 261 | 15 | 1 (A) |  |  |
|  | NB | L | 768 | 364 | 58 (E) | 55.9 (E) |  | 729 | 292 | 52 (D) | 51 (D) |  |
|  | NB | R | 479 | 228 | 52 (D) | 55.9 (E) |  | 450 | 212 | 49.5 (D) | 51 (D) |  |
|  | SB | L | 409 | 333 | 72 (E) |  |  | 384 | 534 | 49.4 (D) |  |  |
|  | S | R | 835 | 333 | 33 (C) |  |  | 823 | 534 | 54.6 (D) | 53 (D) |  |

## LOS F

Key movement for result comparison
Notes: (1) Signal timing and cycle lengths differ between the RCUT and the Full Intersection; the I-95 ramp terminal delay is slightly improved due to the signal timing differences. (2) The volume column confirms that the expected demand is reaching the intersections/interchanges.

SW 10 ${ }^{\text {th }}$ Street CDC - Newport Center Drive Intersection Alternatives Analysis

1. The eastbound and westbound approaches at Newport Center Drive can still accommodate the 2040 traffic volumes in the "full intersection" configuration. However, the northbound and southbound approaches may need to wait more than 1 signal cycle to exit the intersection.
2. Travel speeds on SW $10^{\text {th }}$ are reduced during the peak hour but max queues are not anticipated to exceed storage.
3. Compared to the RCUT configuration, the operations at the I-95 ramp terminals remain fairly consistent for the "full intersection" configuration.
4. While pedestrian phases are not modeled, any minor street pedestrian call is expected to significantly degrade operations on SW $10^{\text {th }}$ Street.

Based on model assumptions and results, the full intersection opening at Newport Center Drive can be implemented through approximately 2035 or 2040.


## MEMORANDUM

Date: August 10, 2018<br>\section*{DRAFT}<br>To: Robert Bostian, P.E., FDOT D4<br>Hui Zhao, P.E., FDOT D4<br>From: Pramod Choudhary, P.E., PTOE, AECOM<br>Andrew Velasquez, P.E., PTOE, AECOM/Florida's Turnpike<br>Copies: Anson Sonnet, P.E., FDOT D4<br>Vilma Croft, P.E., HNTB<br>Lisa Dykstra, P.E., RS\&H<br>Subject: SW $10^{\text {th }}$ Street at I-95 - Alternatives Analysis Memorandum<br>FPID(s): 436964-1 and 439891-1<br>State Road: SW $10^{\text {th }}$ Street (S.R. 869)<br>County: Broward

## INTRODUCTION

The purpose of this memorandum is to document the various alternatives that were developed and analyzed for the I-95 and SW $10^{\text {th }}$ Street PD\&E Study (FPID 436964-1) and the SW $10^{\text {th }}$ Street Connector PD\&E Study (FPID 439891-1). Traffic evaluation was conducted for two different Build Alternatives (a depressed Center Alignment and a depressed Northern Alignment for the proposed managed lanes), with six different managed lanes ingress and egress configurations resulting in a total of twelve (12) Build Alternatives. In addition, 2016 Existing Conditions, 2040 No-Build Conditions, and 2040 Partial Build Conditions were also evaluated.

The fifteen scenarios (existing 2016 conditions, 2040 No-Build conditions, 2040 Partial Build conditions, and twelve 2040 Build Concept conditions) were first analyzed by conducting a Tier 1 volume to capacity ratio analysis of the SW 10th Street local lanes and proposed managed lanes. In addition, the vehicle-miles traveled in the managed lanes during the peak hours for each of the twelve Build Concepts were calculated and compared. Subsequently, a Tier 2 intersection operations analysis was completed for the signalized intersections along SW $10^{\text {th }}$ Street. A Tier 2 freeway analysis of the proposed managed lanes connecting the Sawgrass, Florida's Turnpike and I-95 was also completed. The peak hour traffic operations analysis results were reviewed to screen the twelve Build Concepts for any traffic operations fatal flaws, and the comparison of results was used to identify the most advantageous Build Concepts to be considered further.

Overall, Tier 1 and Tier 2 analyses resulted in the selection of the North Build Alternative 3D-1.3 and the Center Build Alternative 3D-1.3 as the top ranked alternatives. Please refer to the Traffic Analysis Technical Memorandum dated May 4, 2018 and prepared by RS\&H. VISSIM microsimulation was conducted to further evaluate these two shortlisted alternatives. The North Build Alternative 3D-1.3 was found to provide better operating conditions than the Center Build Alternative. Hence, the North Build Alternative 3D-1.3 was operationally considered as the best Build Alternative and was further refined to improve the overall operations. One of the refinements was to modify the Newport Drive intersection to eliminate the northbound and southbound through and left-turn movements from the intersection and convert the unsignalized intersection of SW $12^{\text {th }}$ Avenue and Newport Drive into a roundabout.

## AECOM

The documentation provided herein includes the lane geometry, traffic volumes, and intersection analysis for the No-Build, Partial Build and Build 3D-1.3 alternatives along SW $10^{\text {th }}$ Street from Military Trail to FAU Research Boulevard. In addition, VISSIM traffic simulation results of the shortlisted alternatives have also been included to help in the determination of the operationally best alternative.

## LANE GEOMETRY

Figures $\mathbf{1}$ through $\mathbf{3}$ provide the lane geometry for the future year alternatives described below:
No-Build Alternative - This alternative assumes future capacity with the Turnpike Mainline widening, 95 Express Phase 3 Lanes and a portion of the Sawgrass Expressway Widening from Sunrise Boulevard to U.S. 441. No improvements are included along the Sawgrass Expressway from U.S. 441 to Powerline Road and along SW $10^{\text {th }}$ Street. The No-Build includes the intersection improvements under construction at the SW $10^{\text {th }}$ Street/l-95 interchange and Hillsboro Boulevard/l-95 interchange.

Partial Build Alternative - In addition to the No-Build improvements, the Partial-Build alternative assumes:

- Full Interchange at Turnpike Mainline/Sawgrass Expressway/SW $10^{\text {th }}$ Street.
- Direct Connections to northbound and southbound 95 Express.
- Modification to the I-95 interchange ramp terminals to include additional turn lanes and a new westbound to northbound ramp.

This alternative assumes that the 95 Express direct connect ramps will extend west of Military Trail via gradeseparated ramps. The full interchange at Turnpike Mainline/Sawgrass Expressway will connect to an atgrade SW $10^{\text {th }}$ Street arterial west of the Powerline Road intersection. SW $10^{\text {th }}$ Street also remains as a fourlane arterial between Powerline Road and Military Trail.

## Build SW 10 th Street Alternative 3D-1.3 North Alignment and Modified Newport Drive Intersection (North

 Modified) - In addition to the Partial-Build improvements, the Build alternative includes:- Four managed lanes ( 2 in each direction) along SW $10^{\text {th }}$ Street with grade separation at Powerline Road and Military Trail intersections.
- Managed lane ingress and egress ramps on either side of the Military Trail intersection.
- Removal of the northbound and southbound left turns at Newport Drive with additional northbound and southbound right turn lanes.
- Access from eastbound SW $12^{\text {th }}$ Avenue to westbound SW $10^{\text {th }}$ Street managed lanes.
- A Roundabout at the intersection of East Newport Center Drive and West Newport Center Drive.

Through coordination with the SW $10^{\text {th }}$ Street Connector PD\&E team, 12 Build Alternatives (3D 1.1 through 1.6 Center and North Alignments) were developed to evaluate the best potential ingress/egress combination along SW 10 ${ }^{\text {th }}$ Street. Build Alternatives 3D-1.3 Center and 3D-1.3 North alignments reflected the highest ranked ingress/egress combination through the tiered screening process. For simplicity, in comparing the intersection analysis results, Alternative 3D 1.3 North alignment is compared against the Partial and No-Build alternatives.

## TRAFFIC FORECASTS

Figures 4 through 6 show the 2040 Directional Design Hour Volumes (DDHVs) for No-Build, Partial Build and Build 3D.1.3 alternatives. The No-Build and Partial Build alternatives were provided in the Draft SW $10^{\text {th }}$ Street Project Traffic Forecast Memorandum (PTFM), dated January 2018. The PTFM also included the forecasts for Build Alternative 3-D 1.1. The DDHVs for Build Alternative 3D-1.3 North Modified were developed in coordination with the SW $10^{\text {th }}$ Street Connector PD\&E team using output from the Express Lanes Time-of-Day Model and then manually reassigning traffic to accommodate median closures or restricted movements.










## AECOM

## INTERSECTION ANALYSIS RESULTS

Tables 1 through 3 present the 2040 level of service and control delays (in seconds/vehicle) for the No-Build, Partial Build, and Build 3D1.3 North Alignment (Modified), respectively, for the SW $10^{\text {th }}$ Street intersections from Military Trail to FAU Research Boulevard. The analysis was conducted using Synchro software and reported as Highway Capacity Manual 2000 output, consistent with the SW $10^{\text {th }}$ Street PTFM methodology. The results show the following:

## 2040 AM Peak Hour

1. The analysis generally shows a progressive improvement (reduction) in overall intersection delays from the No-Build to Partial Build to Build alternatives.
2. At the Military Trail intersection, the Partial Build alternative is expected to reduce the delay by more than 62 seconds/vehicle from the No-Build alternative and the Build alternative would further reduces it by another 34 seconds/vehicle. The Build alternative provides LOS D at this intersection.
3. The Newport Center Drive intersection is expected to operate at LOS D, C and B under the No-Build, Partial Build and Build alternatives, respectively.
4. The I-95 SB Ramp intersection is expected to operate at LOS E, D and D under the No-Build, Partial Build and Build alternatives, respectively. The average vehicle delays between the Partial Build and Build alternatives are comparable.
5. The I-95 NB Ramp intersection is expected to operate at LOS F, C and C under the No-Build, Partial Build and Build alternatives, respectively. The Partial Build and Build alternatives would reduce the overall intersection delays by more than 54 seconds per vehicle when compared with the No-Build alternative. The average vehicle delays between the Partial Build and Build alternatives are comparable.
6. The FAU Research Park Boulevard is expected to operate at LOS D under the No-Build, Partial Build and Build alternatives with comparable delays.

## 2040 PM Peak Hour

1. The analysis generally shows a progressive improvement (reduction) in overall intersection delays from the No-Build to Partial Build to Build alternatives.
2. At the Military Trail intersection, the Partial Build alternative would reduce the delay by 72 seconds/vehicle from the No-Build alternative and the Build alternative would further reduces it by another 31 seconds/vehicle. The intersection is expected to operate at LOS F, F and D under the NoBuild, Partial Build and Build alternatives, respectively.
3. The Newport Center Drive intersection is expected to operate at LOS F, E and C under the No-Build, Partial Build and Build alternatives, respectively. The Partial Build alternative would reduce the delay by 19 seconds/vehicle from the No-Build alternative and the Build alternative would further reduces it by more than 34 seconds/vehicle.
4. The I-95 SB Ramp intersection is expected to operate at LOS D, C and D under the No-Build, Partial Build and Build alternatives, respectively.
5. The I-95 NB Ramp intersection is expected to operate at LOS F, C and C under the No-Build, Partial Build and Build alternatives, respectively. The Partial Build and Build alternatives would reduce the overall intersection delays by more than 124 seconds per vehicle when compared with the No-Build alternative. The average vehicle delays between the Partial Build and Build alternatives are comparable.
6. The FAU Research Park Boulevard is expected to operate at LOS E, E and D under the No-Build, Partial Build and Build alternatives. The Partial Build would reduce the delay by more than 19 seconds per vehicle and the Build alternative would further reduce it by 5 seconds per vehicle.

## VISSIM Simulation of the North and Center Build Alternative 3D-1.3

As discussed above, based on the VISSIM traffic simulation of the North and Center Build Alternatives, certain refinements were made to the Build concepts. Therefore, hereinafter, the 3D-1.3 Build Alternatives have been identified as "Base" and "Modified". The modified alternative incorporates the elimination of the northbound and southbound through and left-turn movements from the intersection of SW $10^{\text {th }}$ Street and Newport Drive and the conversion of the currently unsignalized intersection of SW $12{ }^{\text {th }}$ Avenue and Newport Drive into a roundabout.

## Evaluation of North Build Alternative Base and Center Build Alternative Base

VISSIM micro-simulation analysis was conducted for the Base condition for North and Center Build Alternatives 3D-1.3. For the Center Base alignment, VISSIM micro-simulation analysis identified significant constraints in the WB direction between Military Trail and the I-95 ramps. The primary reason for the traffic congestion and backup was insufficient intersection throughput capacity at Newport Center Drive and constrained weaving operations accessing the WB express lane ingress. In the North Base alignment, the express lanes are relocated to the north side of SW $10^{\text {th }}$ Street from the center location thereby providing better operating conditions than the Center Base alignment. Tables 4A and 4B summarize the VISSIM network-wide summary. The green highlighting indicates the alternative with better operations. Figures 7A and 7B depict the VISSIM network for the North Base and Center Base alternatives.

## Findings

The VISSIM results indicate that in the Build Option 1.3 North Base, there is significant reduction in latent (i.e., unmet) demand and delay in the AM and PM conditions. Based on these traffic operations results the North Build Alternative Base preforms better than the Center Build Alternative Base. Therefore, the Center Build Alternative was eliminated and North Build Alternative Base was advanced further in the PD\&E process for additional concept refinements to improve the traffic operations at the Newport Center Drive intersection.

## Evaluation of North Build Alternative Base and North Build Alternative Modified

To improve traffic operations and achieve acceptable traffic operations at all study area intersections, the North Build Alternative Base was further refined by eliminating the NB and SB through and left-turn movements at the Newport Center Drive and SW $10^{\text {th }}$ Street intersection. The traffic from the eliminated movements was reassigned via the loop connector which passes under SW $10^{\text {th }}$ Street along the railway line. Tables 5A and 5B summarize the VISSIM network-wide summary. The green highlighting indicates the alternative with better operations. Figures 8A and 8B depict the VISSIM network for the North Modified and Center Modified alternatives.

## Findings

The VISSIM results indicate that in the North Build Alternative Modified, there is improvement in delay, speed and travel time in the AM condition. In the PM condition, there is significant reduction in latent (i.e., unmet) demand and delay along with improvement in delay, speed and travel time. Hence, the North Build Alternative Modified was operationally found to be the best alternative for further consideration in the PD\&E process.

Table 1A - No-Build 2040 SW 10th Street Signalized Intersection Analysis Results - AM


Synchro 9.2.914.6
LOS notes:
HCM 2000 level of service (LOS) and delay results from Synchro
Delay is in sec/veh units
: LOS E reflecting at capacity operations

Queue notes:
HCM methodology does not report queues, results are from Synchro outputs report
$\sim$ : Volume exceeds capacity, queue is theoretically infinite
\#: 95th percentile volume exceeds capacity
m : Upstream metering is in effect
*Combined SB ramps intersections delay notes
The WBT at the I-95 SB on-ramp intersection and EBT at the I-95 SB off-ramp intersection are not used in the calculation of the combined weighted intersection delay.

Table 1B - No-Build 2040 SW 10th Street Signalized Intersection Analysis Results - PM

| Arterial | Signal Controlled Intersections | Measure of Effectiveness (MOE) | Location | PM Movement/Approach LOS (Delay) |  |  |  |  |  |  |  |  |  |  |  | Intersection <br> PM LOS (Delay) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Eastbound |  |  | Westbound |  |  | Northbound |  |  | Southbound |  |  |  |
|  |  |  |  | Left | Through | Right | Left | Through | Right | Left | Through | Right | Left | Through | Right |  |
| SW 10th Street | South Military Trail | LOS (Delay) | Movement | F (314.4) | E (61.2) | C (23.6) | E (78.7) | F (342.0) | E (55.4) | F (92.2) | E (68.3) | E (61.8) | F (85.3) | F (92.3) | F (96.5) | F (157.2) |
|  |  |  | Approach | F (97.7) |  |  | F (263.3) |  |  | E (70.4) |  |  | F (92.5) |  |  |  |
|  |  | Volume to Capacity ratio | Movement | 1.44 | 1.01 | 0.15 | 0.91 | 1.63 | 0.66 | 0.78 | 0.8 | 0.6 | 0.75 | 0.99 | 0.96 |  |
|  |  | Queue Length 95th (ft) | Movement | \#452 | \#958 | m31 | m291 | m\#2176 | m338 | \#191 | 507 | 351 | 217 | \#758 | \#731 |  |
|  |  | LOS (Delay) | Movement | F (83.0) | B (16.6) |  | F (208.8) | D (51.2) | B (14.8) | F (113.5) | F (115.7) | F (406.9) | E (65.1) | E (65.1) | F (262.3) |  |
|  | East Newport Center | LOS(Delay) | Approach |  | B (18.7) |  |  | E (57.5) |  |  | F (275.4) |  |  | F (215.5) |  | F 81.8$)$ |
|  |  | Volume to Capacity ratio | Movement | 0.73 | 0.76 |  | 1.15 | 1.02 | 0.11 | 0.91 | 0.92 | 1.68 | 0.22 | 0.23 | 1.36 | (81.8) |
|  |  | Queue Length 95th (ft) | Movement | m78 | m229 |  | \#380 | \#1358 | 34 | \#408 | \#416 | \#824 | 122 | 123 | \#727 |  |
|  |  | LOS (Delay) | Movement |  | F (88.5) | A (0.5) | F (101.0) | A (0.2) |  |  |  |  |  |  |  |  |
|  | I-95 Southbound On- | LOS (Delay) | Approach |  | E (66.3) |  |  | C (22.6) |  |  |  |  |  |  |  |  |
|  |  | Volume to Capacity ratio | Movement |  | 1 | 0.48 | 1.03 | 0.48 |  |  |  |  |  |  |  |  |
|  |  | Queue Length 95th (ft) | Movement |  | m625 | m0 | \#843 | 0 |  |  |  |  |  |  |  | D 4 |
|  |  | LOS (Delay) | Movement |  | B (12.6) |  |  | A (9.9) |  |  |  |  | D (54.0) |  | A (4.1) |  |
|  | I-95 Southbound Off- |  | Approach |  | B (12.6) |  |  | A (9.9) |  |  |  |  |  | B (14.4) |  |  |
|  | ramp | Volume to Capacity ratio | Movement |  | 0.66 |  |  | 0.63 |  |  |  |  | 0.36 |  | 0.79 |  |
|  |  | Queue Length 95th (ft) | Movement |  | m661 |  |  | m151 |  |  |  |  | 205 |  | 0 |  |
|  |  | LOS (Delay) | Movement |  | D (52.5) | A (1.7) | E (75.3) | C (32.6) |  | F (441.1) |  | F (501.6) |  |  |  |  |
|  | I-95 Northbound Ramps | LOS (Delay) | Approach |  | C (31.5) |  |  | D (39.6) |  |  | F (460.0) |  |  |  |  | F (148.4) |
|  |  | Volume to Capacity ratio | Movement |  | 0.88 | 0.67 | 0.81 | 0.66 |  | 1.8 |  | 1.92 |  |  |  | F(148.4) |
|  |  | Queue Length 95th (ft) | Movement |  | 818 | 380 | \#528 | 590 |  | \#1186 |  | \#1305 |  |  |  |  |
|  |  | LOS (Delay) | Movement | D (40.1) | C (29.1) |  | F (147.0) | C (23.2) | B (17.6) | F (567.3) | E (57.8) | E (56.1) | E (77.2) | F (113.1) | F (136.8) |  |
|  | FAU Research Park | LOS (Delay) | Approach |  | C (30.4) |  |  | D (40.0) |  |  | F (321.3) |  |  | F (113.6) |  |  |
|  | Boulevard | Volume to Capacity ratio | Movement | 0.87 | 0.72 |  | 1.11 | 0.49 | 0.09 | 2.08 | 0.25 | 0.09 | 0.85 | 0.99 | 1.05 | E(大9.2) |
|  |  | Queue Length 95th (ft) | Movement | \#272 | 601 |  | \#417 | 353 | 39 | \#655 | 107 | 63 | \#391 | \#531 | \#542 |  |

Synchro 9.2.914.6
LOS notes:
HCM 2000 level of service (LOS) and delay results from Synchro
Delay is in sec/veh units
: LOS E reflecting at capacity operations

Queue notes:
HCM methodology does not report queues, results are from Synchro outputs report
$\sim$ : Volume exceeds capacity, queue is theoretically infinite
\#: 95th percentile volume exceeds capacity
m : Upstream metering is in effect
*Combined SB ramps intersections delay notes
The WBT at the I-95 SB on-ramp intersection and EBT at the I-95 SB off-ramp intersection are not used in the calculation of the combined weighted intersection delay

Table 2A - Partial-Build 2040 - SW 10th Street Signalized Intersection Analysis Results - AM


Synchro 9.2.914.6
LOS notes:
HCM 2000 level of service (LOS) and delay results from Synchro
Delay is in sec/veh units
: LOS E reflecting at capacity operations
: LOS F reflecting over capacity operations

Queue notes:
HCM methodology does not report queues, results are from Synchro outputs report
$\sim$ : Volume exceeds capacity, queue is theoretically infinite
\#: 95th percentile volume exceeds capacity
m : Upstream metering is in effect

Table 2B- Partial-Build 2040 - SW 10th Street Signalized Intersection Analysis Results - PM


Synchro 9.2.914.6
LOS notes:
HCM 2000 level of service (LOS) and delay results from Synchro
Delay is in sec/veh units

[^1]Queue notes:
HCM methodology does not report queues, results are from Synchro outputs report
$\sim$ : Volume exceeds capacity, queue is theoretically infinite
\#: 95th percentile volume exceeds capacity
m : Upstream metering is in effect

Table 3A - Build 3D-1.3 2040 - North Alignment - SW 10th Street Signalized Intersection Analysis Results - AM (Modified)


LOS notes:
HCM 2000 level of service (LOS) and delay results from Synchro
Delay is in sec/veh units
: LOS E reflecting at capacity operations
: LOS F reflecting over capacity operations

Queue notes:
HCM methodology does not report queues, results are from Synchro outputs report
$\sim$ : Volume exceeds capacity, queue is theoretically infinite
\#: 95th percentile volume exceeds capacity
m : Upstream metering is in effect

Table 3B - Build 3D-1.3 2040 - North Alignment - SW 10th Street Signalized Intersection Analysis Results - PM (Modified)


Synchro 9.2.914.6
LOS notes:
HCM 2000 level of service (LOS) and delay results from Synchro
Delay is in sec/veh units
: LOS E reflecting at capacity operations
: LOS F reflecting over capacity operations

Queue notes:
HCM methodology does not report queues, results are from Synchro outputs report
$\sim$ : Volume exceeds capacity, queue is theoretically infinite
\#: 95th percentile volume exceeds capacity
m : Upstream metering is in effect

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Table 4A: 2040 AM Peak Period VISSIM Network-wide Summary

| Alternative (2040 AM Peak Period) | Average |  | Total |  |  | Latent |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Delay (sec/veh) | Speed (mph) | Travel Time (veh-hrs) | Delay (veh-hrs) | Vehicles <br> Processed | Delay (veh-hrs) | $\begin{aligned} & \text { Demand } \\ & \text { (veh) } \end{aligned}$ |
| Build Option 1.3 Center Base | 395 | 25 | 3,879 | 1,627 | 44,437 | 2,461 | 3,327 |
| Build Option 1.3 North Base | 327 | 27 | 3,717 | 1,393 | 45,936 | 6 | 8 |

= Favorable alternative for the referenced measure of effectiveness

Table 4B: 2040 PM Peak Period VISSIM Network-wide Summary

| Alternative <br> (2040 PM Peak <br> Period) | Average |  | Total |  |  | Latent |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Delay | Speed | Travel <br> Time <br> (mph) | Delay <br> (veh-hrs) | Vehicles <br> (veh-hrs) | Delay <br> (veh-hrs) | Demand <br> (veh) |
| Build Option 1.3 <br> Center Base | 1,035 | 15 | 6,803 | 4,566 | 47,763 | 3,982 | 5,904 |
| Build Option 1.3 <br> North Base | 428 | 24 | 4,388 | 1,935 | 48,814 | 1,018 | 1,392 |

$\square$ = Favorable alternative for the referenced measure of effectiveness

Table 5A: 2040 AM Peak Period VISSIM Network-wide Summary

| $\begin{array}{c}\text { Alternative } \\ \text { (2040 AM Peak } \\ \text { Period) }\end{array}$ | Average |  | Total |  |  | Latent |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Delay |  |  |  |  |  |  |
| (sec/veh) |  |  |  |  |  |  |  | \(\left.\begin{array}{c}Speed <br>

(mph)\end{array} $$
\begin{array}{c}\text { Travel } \\
\text { Time } \\
\text { (veh-hrs) }\end{array}
$$ \quad $$
\begin{array}{c}\text { Delay } \\
\text { (veh-hrs) }\end{array}
$$ $$
\begin{array}{c}\text { Vehicles } \\
\text { Processed }\end{array}
$$ $$
\begin{array}{c}\text { Delay } \\
\text { (veh-hrs) }\end{array}
$$ $$
\begin{array}{c}\text { Demand } \\
\text { (veh) }\end{array}
$$\right]\)
= Favorable alternative for the referenced measure of effectiveness

Table 5B: 2040 PM Peak Period VISSIM Network-wide Summary

$\left.$| Alternative <br> (2040 PM Peak <br> Period) | Average |  | Total |  |  | Latent |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Delay |  |  |  |  |  |  |
| (sec/veh) |  |  |  |  |  |  |  | | Speed |
| :---: |
| (mph) | | Travel |
| :---: |
| Time |
| (veh-hrs) |$\quad$| Delay |
| :---: |
| (veh-hrs) | | Vehicles |
| :---: |
| Processed | | Delay |
| :---: |
| (veh-hrs) | | Demand |
| :---: |
| (veh) | \right\rvert\,

= Favorable alternative for the referenced measure of effectiveness

## Figure 7A: Build Option 3D-1.3 North Base



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## Figure 7B: Build Option 3D-1.3 Center Base



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## Figure 8A: Build Option 3D-1.3 North Modified



## Figure 8B: Build Option 3D-1.3 Center Modified



## Roundabout vs. Stop Controlled Intersection Analysis (SW 12 ${ }^{\text {th }}$ Avenue \& Newport Center Drive)

The intersection of SW $12^{\text {th }}$ Avenue and Newport Center Drive is currently a two-way stop controlled intersection with the NB and SB approaches as free movements and EB and WB movements as Stop controlled. In future years, it is projected that the truck activity at this intersection would increase causing potential safety concerns. Therefore, to mitigate any potential traffic operational safety concerns, a signal and a roundabout option were considered for this intersection. However, the signal warrant analysis was not satisfied for the intersection due to low traffic volume so the signal option was eliminated and a roundabout option was considered for traffic operational analysis comparison with the Stop controlled intersection.

Tables 6A and 6B summarize the VISSIM analysis results for roundabout and Stop controlled intersection conditions. The VISSIM analysis indicates that the traffic operational analysis is very similar between roundabout and Stop controlled intersection. However, a roundabout has significant safety benefits over a Stop controlled intersection. According to FHWA - Technical Summary on Roundabouts, numerous studies have shown significant safety improvements at intersections converted from conventional forms to roundabouts. The physical shape of roundabouts eliminate crossing conflicts that are present at conventional intersections, thus reducing the total number of potential conflict points and the most severe of those conflict points. The most comprehensive and recent study showed overall reductions of 35 percent in total crashes and 76 percent in injury crashes. Severe, incapacitating injuries and fatalities are rare, with one study reporting 89-percent reduction in these types of crashes and another reporting 100-percent reduction in fatalities. Therefore, a roundabout is recommended at the intersection of SW $12^{\text {th }}$ Avenue and Newport Center Drive.

## North Build Alternative 3D-1.3 Modified - Evaluation of Eastbound Express Lane Egress Merge Conditions

Due to the proximity of the eastbound express lane egress to the Newport Center Drive intersection and the I-95 southbound ramp intersection, significant weaving and lane changes are induced in the eastbound direction. In order to provide the best operating conditions, the eastbound express lane egress was evaluated using VISSIM traffic simulation for the following merge conditions:

- Inside Egress Merge (see Figure 9)
- Outside Egress Merge (See Figure 10)
- Both Inside and Outside Egress Merge (See Figure 11)

Table 7 summarizes the results of the VISSIM analysis of the express lane egress merge conditions. The analysis shows that a combination of both inside and outside merge would provide the best operating conditions in the eastbound direction. Figure 12 depicts the both inside and outside egress merge conditions with a roundabout at the intersection of Newport Center Drive and SW $12{ }^{\text {th }}$ Avenue.

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Table 6A: 2040 AM Design Hour VISSIM Intersection Summary

| Approach (AM Design Hour) | Movement | Roundabout |  |  | Stop Controlled |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Queue <br> Length Maximum <br> (ft) | Demand <br> Processed <br> (Veh) | Delay (sec/veh) | Queue <br> Length Maximum (ft) | Demand <br> Processed (Veh) | Delay (sec/veh) |
| Northbound | U-Turn | 0 | 0 | 0.0 | 0 | 0 | 0.0 |
|  | Left | 55 | 24 | 10.3 | 36 | 25 | 1.8 |
|  | Through | 55 | 30 | 8.3 | 0 | 31 | 0.1 |
|  | Right | 55 | 6 | 7.3 | 9 | 6 | 0.7 |
| Southbound | U-Turn | 0 | 0 | 0.0 | 0 | 0 | 0.0 |
|  | Left | 298 | 491 | 5.7 | 208 | 491 | 3.4 |
|  | Through | 298 | 335 | 6.2 | 108 | 335 | 2.4 |
|  | Right | 298 | 24 | 7.0 | 108 | 24 | 1.8 |
| Eastbound | U-Turn | 0 | 0 | 0.0 | 0 | 0 | 0.0 |
|  | Left | 189 | 82 | 12.0 | 118 | 82 | 12.5 |
|  | Through | 189 | 76 | 11.8 | 121 | 77 | 9.8 |
|  | Right | 189 | 75 | 12.3 | 122 | 75 | 12.0 |
| Westbound | U-Turn | 0 | 0 | 0.0 | 0 | 0 | 0.0 |
|  | Left | 39 | 4 | 2.9 | 73 | 4 | 11.5 |
|  | Through | 39 | 66 | 2.2 | 89 | 66 | 14.0 |
|  | Right | 39 | 32 | 1.6 | 89 | 32 | 5.6 |
| Overall |  |  | 1,246 | 6.9 |  | 1,247 | 5.2 |

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Table 6B: 2040 PM Design Hour VISSIM Intersection Summary

| Approach (AM Design Hour) | Movement | Roundabout |  |  | Stop Controlled |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Queue <br> Length Maximum (ft) | Demand <br> Processed (Veh) | Delay (sec/veh) | Queue Length Maximum (ft) | Queue <br> Length Maximum <br> (ft) | Demand <br> Processed (Veh) |
| Northbound | U-Turn | 0 | 0 | 0.0 | 0 | 0 | 0.0 |
|  | Left | 120 | 169 | 5.4 | 68 | 169 | 2.5 |
|  | Through | 120 | 263 | 4.4 | 0 | 264 | 0.2 |
|  | Right | 120 | 10 | 4.1 | 31 | 10 | 0.5 |
| Southbound | U-Turn | 0 | 0 | 0.0 | 0 | 0 | 0.0 |
|  | Left | 127 | 94 | 12.6 | 84 | 93 | 3.8 |
|  | Through | 127 | 54 | 13.7 | 0 | 54 | 1.9 |
|  | Right | 127 | 28 | 15.6 | 0 | 28 | 2.8 |
| Eastbound | U-Turn | 0 | 0 | 0.0 | 0 | 0 | 0.0 |
|  | Left | 80 | 176 | 3.5 | 126 | 175 | 13.7 |
|  | Through | 80 | 9 | 4.4 | 128 | 9 | 7.3 |
|  | Right | 80 | 9 | 4.0 | 130 | 9 | 10.5 |
| Westbound | U-Turn | 0 | 0 | 0.0 | 0 | 0 | 0.0 |
|  | Left | 293 | 9 | 14.6 | 325 | 9 | 15.6 |
|  | Through | 293 | 382 | 14.1 | 337 | 384 | 28.3 |
|  | Right | 293 | 97 | 5.6 | 337 | 97 | 7.6 |
| Overall |  |  | 1,300 | 8.6 |  | 1,300 | 11.8 |

## Figure 9: Build Option 3D-1.3 North Modified Inside Merge



## Figure 10: Build Option 3D-1.3 North Modified Outside Merge



## Figure 11: Build Option 3D-1.3 North Modified Both Side Merge



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Table 7: North Build Alternative 3D-1.3 Modified - Express Lane Alignment Vehicle-Hours Comparison: Inside Egress Merge vs. Outside Egress Merge vs. Both Side Egress Merge

| Concepts | 2040 <br> (Delay in vehicle-hours) |  |  |
| :--- | :---: | :---: | :---: |
|  | AM | PM | Total |
| Inside Egress Merge | 1,096 | 1,546 | 2,642 |
| Outside Egress Merge | 1,078 | 1,529 | 2,606 |
| Both Sides Egress merge | 1,083 | 1,406 | 2,489 |

Figure 12: Build Option 3D-1.3 North Modified Both Side Merge With Roundabout


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## North Build Alternative 3D-1.3 Modified - Comparison of Weaving Volumes and Minimum Number of Lane Changes for the Eastbound Express Lane Egress Merge Conditions

In addition to the VISSIM analysis discussed above, the eastbound egress merge conditions were also evaluated for weaving volumes and the number of lane changes that would occur due to the different egress merge conditions in the eastbound direction. The origin and destination volumes for both the General Purpose (GP) lane and Express Lane (EL) were determined. Based on the location of the EL egress, the weaving volumes between the GP lane and the EL traffic were estimated. In addition, the number of lane changes that the vehicles from both the GP lane and the EL will have to make in order to reach their destinations was estimated. Table 8 provides a comparison of the weaving volumes and minimum number of lane changes for the different express egress merge conditions. As shown in green highlighting, both sides egress merge would provide the best operating conditions. With both sides egress merge, the express lane traffic can reach their destinations without any weaving and lane changes, and the GP lane traffic would experience the least weaving and the least number of vehicles having to make lane changes to reach their destinations. Figures $\mathbf{1 3}$ through $\mathbf{1 5}$ show the origin and destination traffic from both the GP and the Express lanes for the inside merge, outside merge, and both sides merge conditions, respectively.

Table 8: North Build Alternative 3D-1.3 Modified - Express Lane Alignment
Weaving Volumes and Minimum Lane Changes Comparison: Inside Egress Merge vs. Outside Egress Merge vs. Both Side Egress Merge

| Concepts | AM Peak Hour |  |  |  | PM Peak Hour |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | From GP Lane |  | From Express Lane |  | From GP Lane |  | From Express Lane |  |
|  | Weaving \% | Minimum <br> Lane <br> Changes <br> (vph) | Weaving \% | Minimum Lane Changes (vph) | Weaving \% | Minimum Lane Changes (vph) | Weaving \% | Minimum <br> Lane <br> Changes <br> (vph) |
| Inside Egress Merge | 26\% | 356 | 54\% | 2,052 | 26\% | 300 | 61\% | 2,093 |
| Outside Egress Merge | 73\% | 1,269 | 38\% | 870 | 77\% | 1,167 | 41\% | 611 |
| Both Sides Egress Merge | 20\% | 267 | 0\% | 0 | 4\% | 48 | 0\% | 0 |

## North Build Alternative 3D-1.3 Modified - User Benefit Calculation for the Eastbound Express Lane Egress Merge Conditions

A user benefit calculation was conducted for the different express egress merge conditions for design year 2040. Cumulative benefits for the three merge conditions in 2018 dollars were determined based on the benefits for each year from opening year 2020 to design year 2040. Table 9 summarizes the user benefits in dollars between the three merge conditions.

Table 9: North Build Alternative 3D-1.3 Modified - Express Lane Alignment User Benefit in Dollars

| Present Day <br> Benefit in Dollars (2018) | Outside Egress Merge <br> Minus <br> Inside Egress Merge | Both Sides Egress Merge <br> Minus <br> Inside Egress Merge | Both Sides Egress Merge <br> Minus <br> Outside Egress Merge |
| :---: | :---: | :---: | :---: |
| Cumulative Benefit Difference | $\$ 1,513,100$ | $\$ 6,441,200$ | $\$ 4,927,500$ |

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The maximum benefit will be realized by both sides egress followed by outside egress and then inside egress. When compared with the inside egress, the outside egress provides approximately $\$ 1.5$ million in additional cumulative benefits. The both sides egress provides approximately $\$ 6.4$ million and $\$ 4.9$ million in additional benefits compared to the inside egress and outside egress, respectively. It can therefore be concluded from Table 9 that for as long as the cost of adding the inside merge to the outside merge remains within $\$ 4.9$ million, the benefits will outweigh the cost, otherwise it will be better to maintain the outside only option.

## CONCLUSION

As documented in the Traffic Analysis Technical Memorandum dated May 4, 2018 and prepared by RS\&H, Tier 1 and Tier 2 analyses resulted in the selection of the North Build Alternative 3D-1.3 and the Center Build Alternative 3D-1.3 as the two most suitable alternatives. VISSIM micro simulation resulted in the selection of the North Build Alternative 3D-1.3 as the operationally best Build Alternative. This alternative was further refined to eliminate the northbound and southbound through and left-turn movements from the SW $10^{\text {th }}$ Street and Newport Center Drive intersection and convert the unsignalized intersection of SW 12th Avenue and Newport Center Drive into a roundabout. Additionally, three different express lane egress merge conditions were evaluated for weaving volumes, number of lane changes, and vehicle hours of delay. A combination of both the inside and outside express lane egress merge condition was found to provide the best operating conditions. The both sides egress merge condition also provided the maximum cumulative benefit when compared to the inside only and the outside only merge conditions.

## Figure 13A: 2040 AM Build Condition - Inside Merge EB Weaving



EL
GP

Traffic volumes in vehicles per hour (vph)


#### Abstract

54 percent express lane traffic weaving, and $2,052 \mathrm{vph}$ minimum lane changes to reach destination

26 percent general-purpose lane traffic weaving, and 356 vph minimum lane changes to reach destination


## Figure 13B: 2040 PM Build Condition - Inside Merge EB Weaving



EL
GP

Traffic volumes in vehicles per hour (vph)

61 percent express lane traffic weaving, and 2,093 vph minimum lane changes to reach destination 300 vph minimum lane changes to reach destination

## Figure 14A: 2040 AM Build Condition - Outside Merge EB Weaving



## Figure 14B: 2040 PM Build Condition - Outside Merge EB Weaving



## Figure 15A: 2040 AM Build Condition - Both Side Merge EB Weaving



## EL

FDOTV
Florida Department of Transportation

## Figure 15B: 2040 PM Build Condition - Both Side Merge EB Weaving




[^0]:    ${ }^{1}$ Note that "express lanes" here refers to the SW $10^{\text {th }}$ Street connector lanes. In 2018, the terminology for the SW $10^{\text {th }}$ Street connector lanes was "express lanes".

[^1]:    LOS E reflecting at capacity operations
    LOS F reflecting over capacity operations

