## Town of Thompson's Station Municipal Planning Commission Meeting Agenda September 22, 2020

## **Meeting Called To Order**

Statement By Chair Relating To Conducting The Planning Commission Meeting By Electronic Means Of Due To COVID-19 State Of Emergency

Documents:

INTRODUCTION STATEMENT FOR TS PC SEP 22 2020.PDF

#### Minutes-

Consideration Of The Minutes Of The July 28th, 2020 Meeting

Documents:

JULY 2020 MINUTES.PDF

## **Public Comment**

Any citizen desiring to make a comment can submit their written comments to the Town, which will be included in the meeting minutes for public perusal.

Email your comments to Town Hall at INFO@THOMPSONS-STATION.COM with September Planning Commission Public Comments as the Subject Line.

Contact the Town Community Development office with any questions at (615) 794-4333 ext. 12.

## **Planner Report**

- Update on the Dedication of Public Improvements and Release of Sureties Policy
- Administrative Plat Approval for 1738 & 1726 Old Thompson's Station Road (existing lot line revision)
- Virtual PC Training 11-13-20

## **New Business:**

1. Pleasant Creek Preliminary Plat For The Creation Of 412 Residential Lots, Four Commercial Lots, And Associated Open Space Located Along Lewisburg Pike (Map 154 Parcel 50).

Additional Information to be provided relating to the Preliminary Plat.

Documents:

PLEASANT CREEK PRELIM PLAT PC STAFF REPORT.PDF
PLEASANT CREEK PRE PLAT 20.09.02.PDF
PLEASANT CREEK TIS - 090320 - FINAL.PDF
PLEASANT CREEK OPEN SPACES CONCEPT 9.11 REDUCED.PDF

## 2. Reschedule November Planning Commission Meeting From 11/24/20 To 11/17/20 Due To Thanksgiving.

## Adjourn

This meeting will be held remotely due to the COVID-19 Public Health Emergency and will be live streamed at 7:00 p.m. via our website www.thompsons-station.com

## STATEMENT FOR THE RECORD AT START OF MEETING Thompson's Station Planning Commission

Hello and welcome to this the September 22nd, 2020, Planning Commission meeting for the Town of Thompson's Station.

Pursuant to the Guidance from the Office of the Comptroller for the State of Tennessee and in accordance with Governor Lee's Executive Order # 60 (which was previously extended by Executive Order # 16, 34, and 51) due to the treatment and containment of COVID-19.

This Town of Thompson's Station Planning Commission meeting, with notice, is being held virtually and being recorded to protect the public health, safety, and welfare of the Citizens of Thompson's Station in light of the coronavirus and to continue to allow the Town to function and operate.

Further, it is the desire of the Planning Commission to include this determination in the minutes for this meeting.

We understand that we, the Thompson's Station Planning Commission, serves the Town of Thompson's Station, which is why we are currently recording this virtual meeting, broadcasting it live for public viewing, and uploading and preserving it for future viewing.

## Minutes of the Meeting

of the Municipal Planning Commission of the Town of Thompson 's Station, Tennessee July 28, 2020

## Call to Order:

The meeting of the Municipal Planning Commission of the Town of Thompson's Station was called to order at 7:00 p.m. on 28th day of July 2020 via electronic means under the authority of the Governor's Executive Order related to public meetings during the COVID-19 emergency with the required quorum.

The following statement was read by Planning Chairman Trent Harris:

This meeting is being conducted pursuant to the Guidance from the Comptroller's Office, and in accordance with Governor Lee's Executive Order No. 16 due to the treatment and containment of COVID-19.

This regular monthly meeting for July of 2020 is being held by video conference with the Planning Commission of Thompson's Station and live streamed, as necessary to protect the public's health, safety, and welfare in light of the coronavirus. Further it is requested that the governing body include this determination in the minutes for this meeting.

We understand, we the members of the Planning Commission serve at the pleasure of the citizens of Town of Thompson's Station, and due to the current situation, is why we are currently live streaming this meeting for the benefit of the public, through our website.

A recording of this meeting will be available on the Town of Thompson's Station's web site at *thompsons-station.com* within 24 hours of this meeting.

Members and staff virtually present were: Chairman Trent Harris; Commissioner Luis Parra; Commissioner Sheila Shipman; Commissioner Tara Rumpler; Commissioner Kreis White; Commissioner Bob Whitmer; Interim Town Planner Micah Wood; IT Coordinator Tyler Rainey and Town Attorney Andrew Mills. Alderman Shaun Alexander and Planning Technician Jennifer Jones were unable to attend.

## **Minutes:**

The minutes of the June 23, 2020 regular meeting were presented.

Commissioner Shipman made a motion to approve the June 23, 2020 meeting minutes.

## **Roll Call Vote:**

| $\mathbf{v}$         | <u>OTE</u> | <b>VOTE</b>                   | <b>VOTE</b>         |
|----------------------|------------|-------------------------------|---------------------|
| Chairman Harris      | Yea        | Commissioner Parra Yea        |                     |
| Commissioner Shipman | Yea        | Commissioner Rumpler Yea Comm | missioner White Yea |
| Commissioner Whitmer | Yea        |                               |                     |
| Yea 6                | Nay        | 0 Abstain 0                   |                     |

## **Public Comment:**

None.

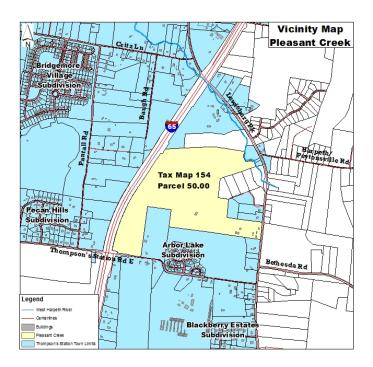
| Page 2  |                              |                            |  |
|---|------------------------------|----------------------------|--|
| <b>Town Planner Report:</b>   |                              |                            |  |
| None.   |                              |                            |  |
| New Business:   |                              |                            |  |
| 1. Item 1 (FP 2020-005), 7 new commercial lot.  | Γollgate Village Subdiv      | vision Final Plat – Sectio | n 20 for the creation of 1                 |
| Mr. Wood reviewed his staff report following contingency:   | and recommends the F         | Planning Commission app    | rove the final plat, with the              |
| Along with the submittal of any site building square footage and propose                          | •                            |                            |  |
| After discussion, Commiss<br>Village Subdivision Final I<br>recommended                           |                              |                            |  |
| Roll Call Vote:  VOT  Chairman Harris Ye  Commissioner Shipman Ye  Commissioner Whitmer Ye  Yea 6 | ca Commissioner Commissioner |                            | <b><u>VOTE</u></b><br>mmissioner White Yea |
| There being no further business, the  | e meeting was adjourned      | 1 at 7:10 p.m.             |  |
|   | Trent I                      | Harris, Chairman           |  |
| Attest:   |                              |                            |  |
| Shaun Alexander, Secretary  |                              |                            |  |
|   |                              |                            |  |

 $\begin{tabular}{ll} Municipal Planning Commission - Minutes of the Meeting \\ July 28, 2020 \end{tabular}$ 

## Thompson's Station Planning Commission Staff Report – Item 1 (PP 2020-004) September 22, 2020

## PROJECT DESCRIPTION

Pleasant Creek Investments, LLC, submitted a request for a preliminary plat for a multi-phase project which will 149 single family lots, 263, attached single family lots, 4 commercial lots, and associated open space lots. The tree removal plan, provided as an exhibit to the preliminary plat, includes the removal of trees for a total of 2,308 inches.



## **ANALYSIS**

## Site Design and Layout

The development is located within the TC zone, which includes a variety of Transect Zones to achieve the applicant's desired community mix within this subdivision. The site design has evolved slightly since the Concept Plan was present to the Planning Commission in June. This includes refinement of the open space areas to provide additional detail. Additional refinement of the overall development of the subdivision is to be expected as the construction plans and final plats are provided.

Per section 5.3.4(c) of the LDO, the approval of the Preliminary Plat in a TC zone establishes the specific zoning districts from the transect zones. This development will include a mix T1/T2 for open space areas, T3 for residential single family detached, T4 for residential single family attached, and T5 for commercial or mixed-use development, as permitted in a T5 zone. The single family detached homes have a 65' x 130 typical lot, while the attached single family includes a range of 20' - 40' x 130' lots. The proposed typical lots conform to the LDO standards for T3 and T4 zones.

## Roadways

The standard for local roadways is 50 feet. Three new roads are proposed and will have at least a 50-foot right-of-way and the required sidewalks. Additional reviews of the roadways will occur as part of the construction plan process.

## Open Space/Amenities

Open space is provided in a mix of styles under the Civic Space Types, required by the LDO. Open space of 47% is provided, consistent with LDO requirements. The LDO requires that neighborhoods with greater than 50 lots incorporate one of the following amenities: children's playground, swimming pool with amenities center, passive recreation areas, and trails throughout the open space where feasible. The amenity center and other proposed trails/recreations areas fulfill this requirement. The applicant has provided additional information on the development of the open space areas as exhibits to the plat.

#### Trees

Development of site, as proposed, will result in the removal of a total of 2,308 inches. The LDO requires the replacement of trees 18 inches and greater at a ratio of one and a half inches for every inch removed. The landscape plans submitted with the construction plans will include detailed landscaping and plating details for each section to account for all replacement requirements.

## Traffic Study

A traffic study was submitted and reviewed by the Town's traffic engineer. A revised traffic study was submitted to the Town and has been reviewed by the traffic engineer. All recommended mitigation shall be incorporated into the development agreement and the construction plans for this subdivision.

## Utilities

The BOMA approved a MOU for the installation of a bio-clere system for wastewater treatment at the 6-9-20 meeting. This wastewater treatment system will provide the sewer services for this subdivision. The Town will assume responsibility for the wastewater system per the terms of the approved MOU.

## **RECOMMENDATION**

Staff recommends approval with the following contingencies:

- 1. The applicant shall set a pre-application meeting with Town Staff prior to the submittal of the constructions plans for this development.
- 2. Prior to the approval of construction plans, the developer shall enter into a development agreement for the project.
- 3. Prior to the approval of construction plans, the developer shall obtain any necessary permits through the Tennessee Department of Environment and Conservation.
- 4. Prior to the approval of construction plans, all applicable codes and regulations shall be addressed to the satisfaction of the Town Engineer.
- 5. Prior to the submittal of the first final plat for this subdivision, a copy of the CCRs shall be submitted for Town review.

- 6. Any signage proposed for the subdivision shall comply requirements set forth within the Land Development Ordinance and shall be located within the open space and maintained by the homeowner's association.
- 7. Streetlights shall be incorporated in accordance with the Land Development Ordinance and shall be documented on the construction drawings.
- 8. All recommendations within the traffic study shall be completed.
- 9. Any change of use or expansion of the project site shall conform to the requirements set forth within the Land Development Ordinance and shall be approved prior to the implementation of any changes to the project.

## **ATTACHMENTS**

Preliminary Plat Traffic Study Open Space Exhibits Owner/Developer:

Pleasant Creek Investments, LLC
John Y. Franks Managing Member
Suite 230, 144 Southeast Parkway
Franklin, TN 37067
615-567-4420
johnfranks@live.com

Landscape Architect:

Paul A. Lebovitz, Landscape Architect 102 Winslow Road Franklin, Tennessee 37064 615-415-6855 pleb@bellsouth.net

Project Engineer:

SITE ENGINEERING CONSULTANTS, INC. RICHARD HOUZE, P.E.

850 MIDDLE TENNESSEE BLVD.
MURFREESBORO, Tennessee 37129
615-890-790
RHOUZE@SED-CIVIL.COM

Surveyor:

Tom King, RLS
Hyde Park Homes, LLC
Suite 230, 144 Southeast Parkway
Franklin, Tennessee 37067
615-238-4958
tomgking3@gmail.com

GeoTechnical Engineer:

American Geotechnical,
Bob Stickney

2712 Reams Place Franklin, TN 37064 615-791-9768 bobstickney@comcast.net

Hydrology:

**Grow Environmental Solutions Tony Grow** 

1406 Wilson Avenue Tullahoma, Tennessee 37388 931-273-4681 tony@growenv.com

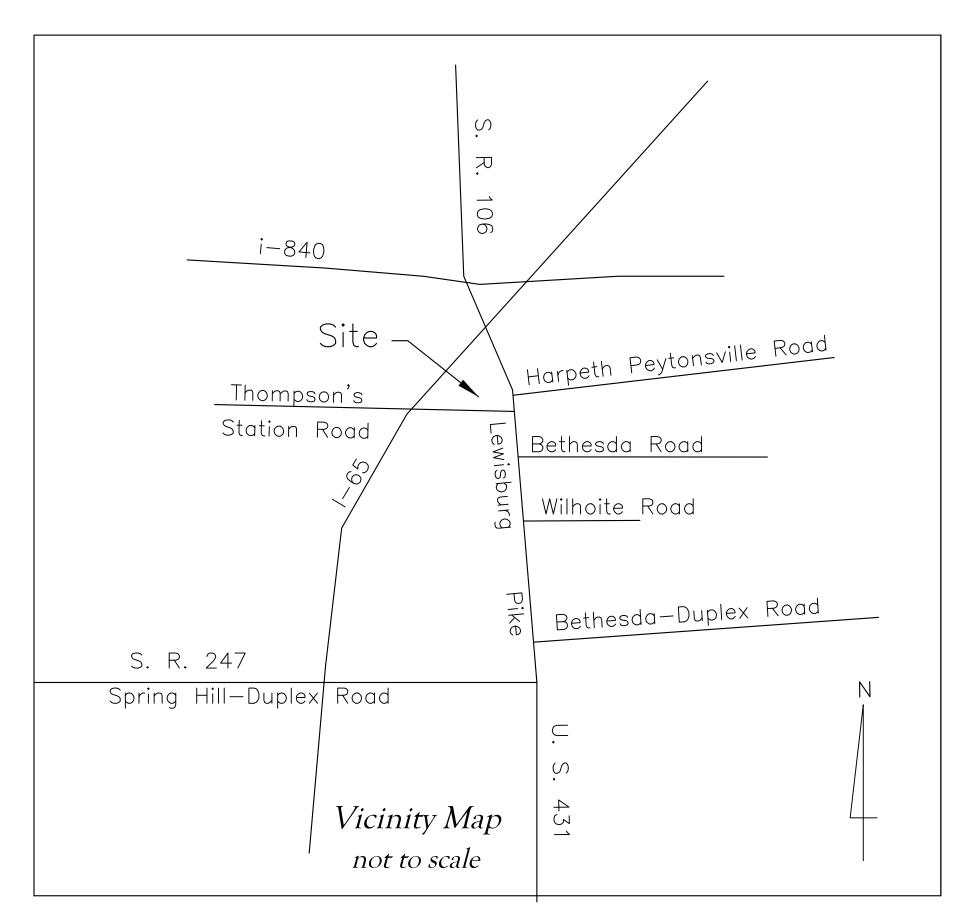
# PLEASANT CREEK (TRANSECT VILLAGE) PRELIMINARY PLAT

# **TOWN**

of

# THOMPSON'S STATION, TENNESSEE

1952 LEWISBURG, PIKE MAP 154 PARCEL 50



## Mayor:

**Corey Napier** 

Aldermen:

Shaun Alexander Brandon Bell Ben Dilks Brian Stover

Thompsons Station
Planning Administrator:

Micah Wood

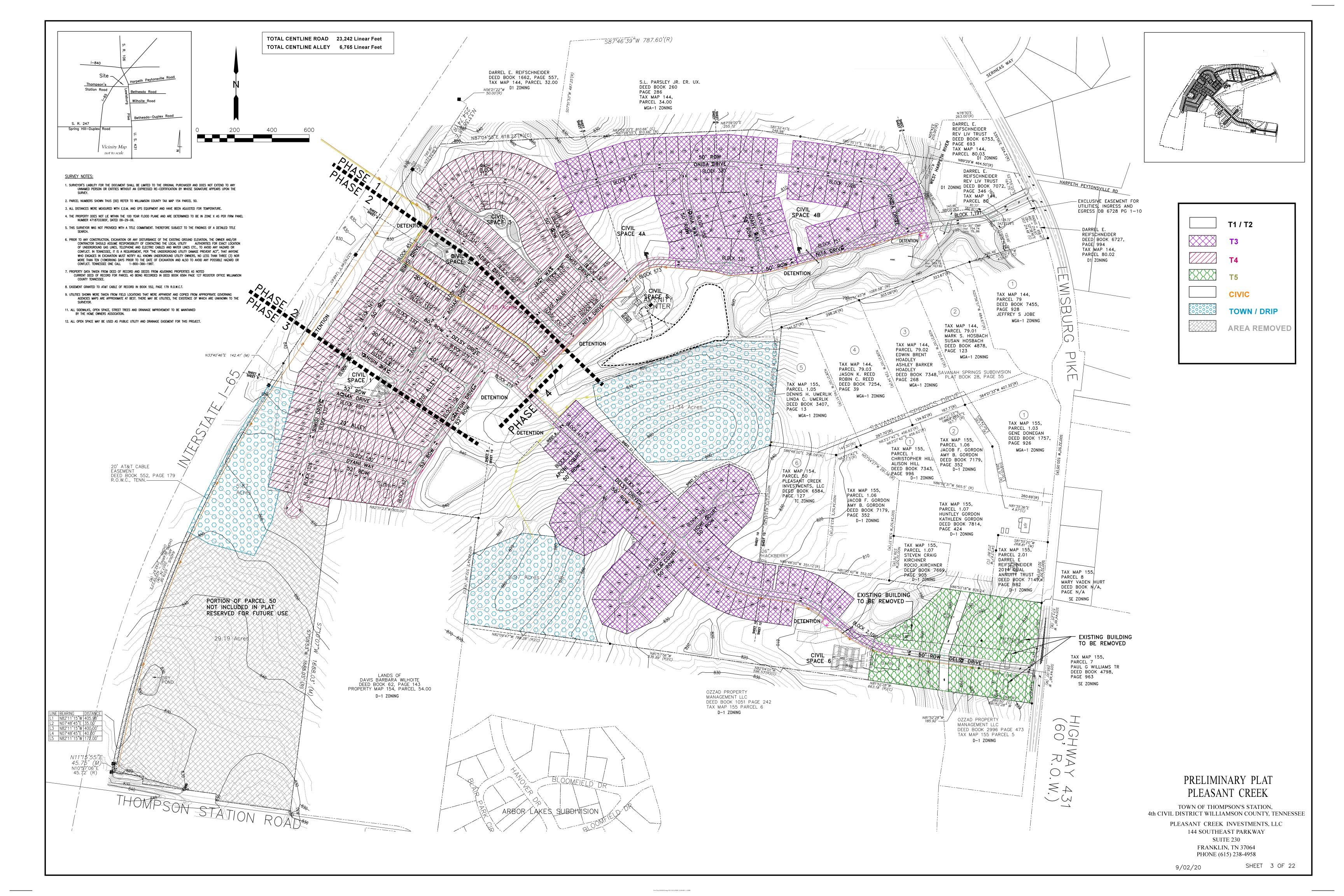
615-794-4333 Ext. 12 mwood@thompsons-station.com

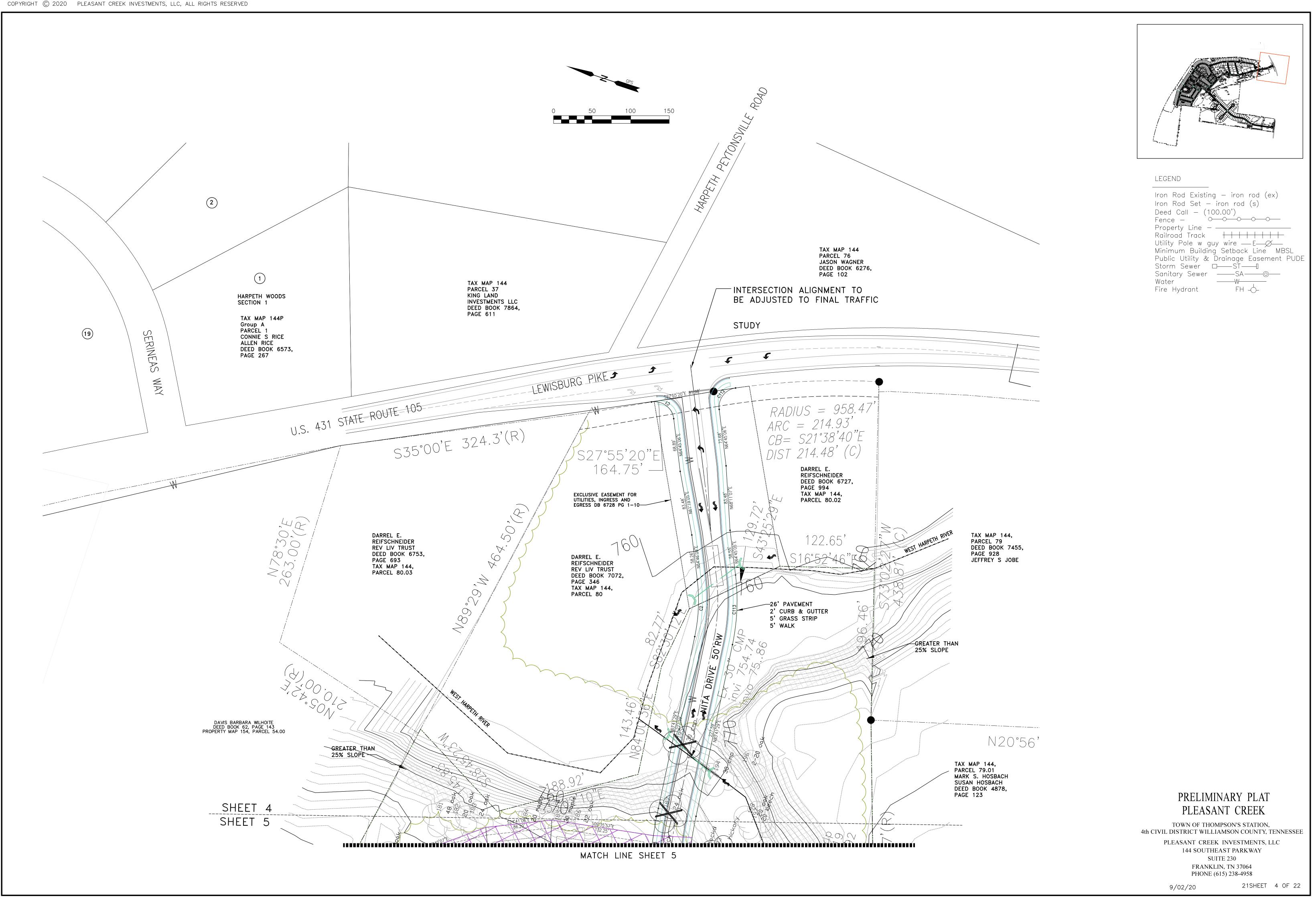
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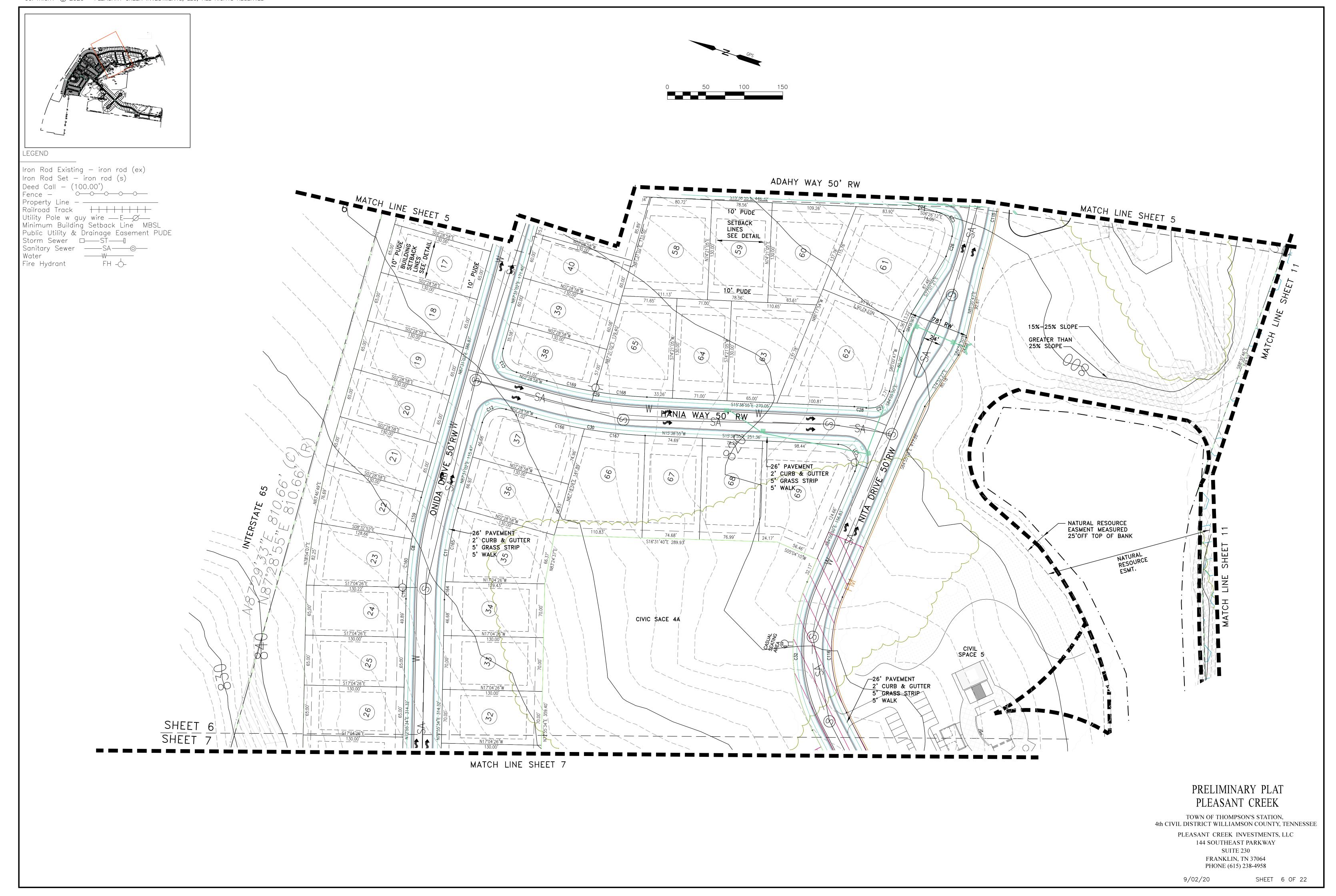
Date of Drawings: 9/02/2020

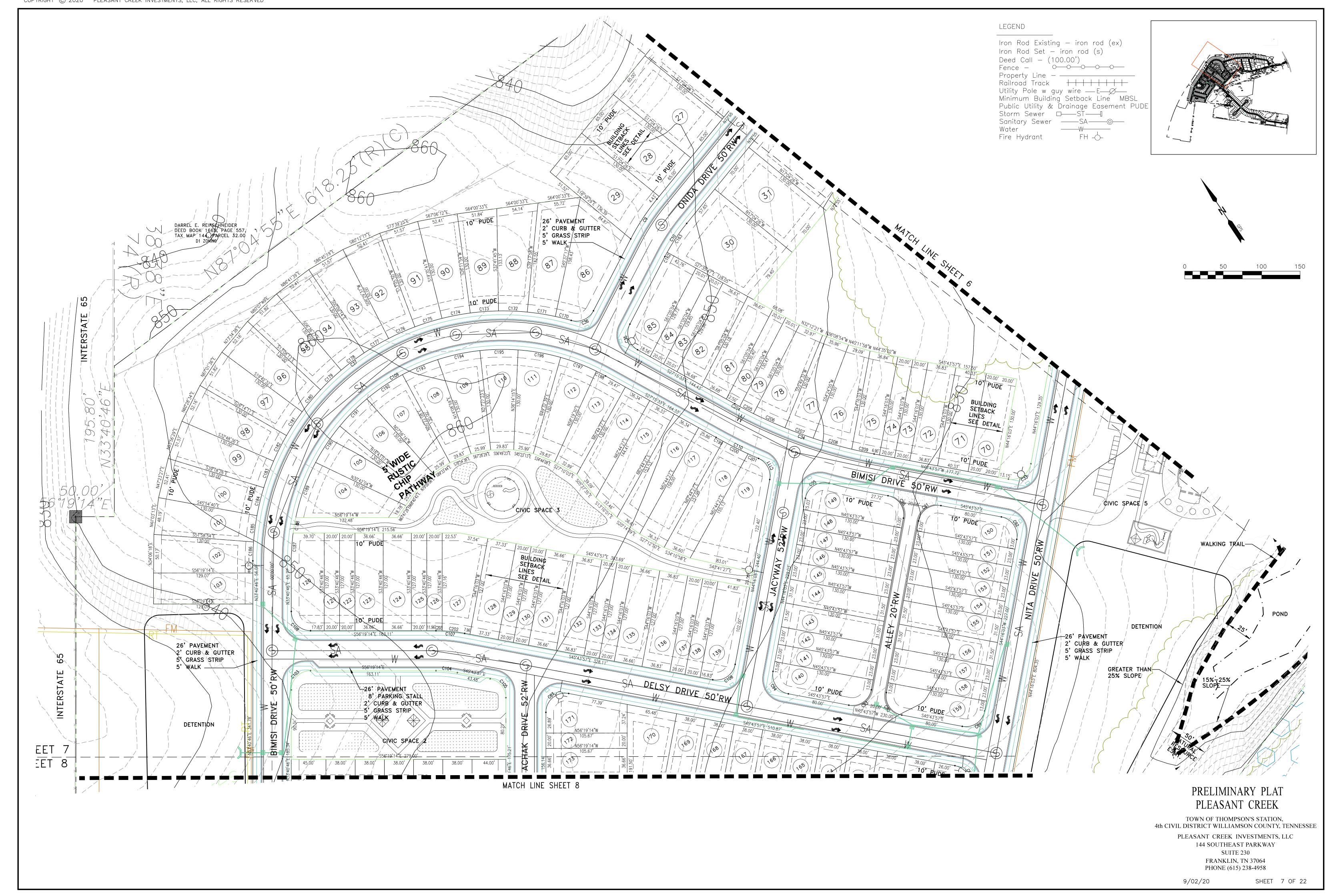


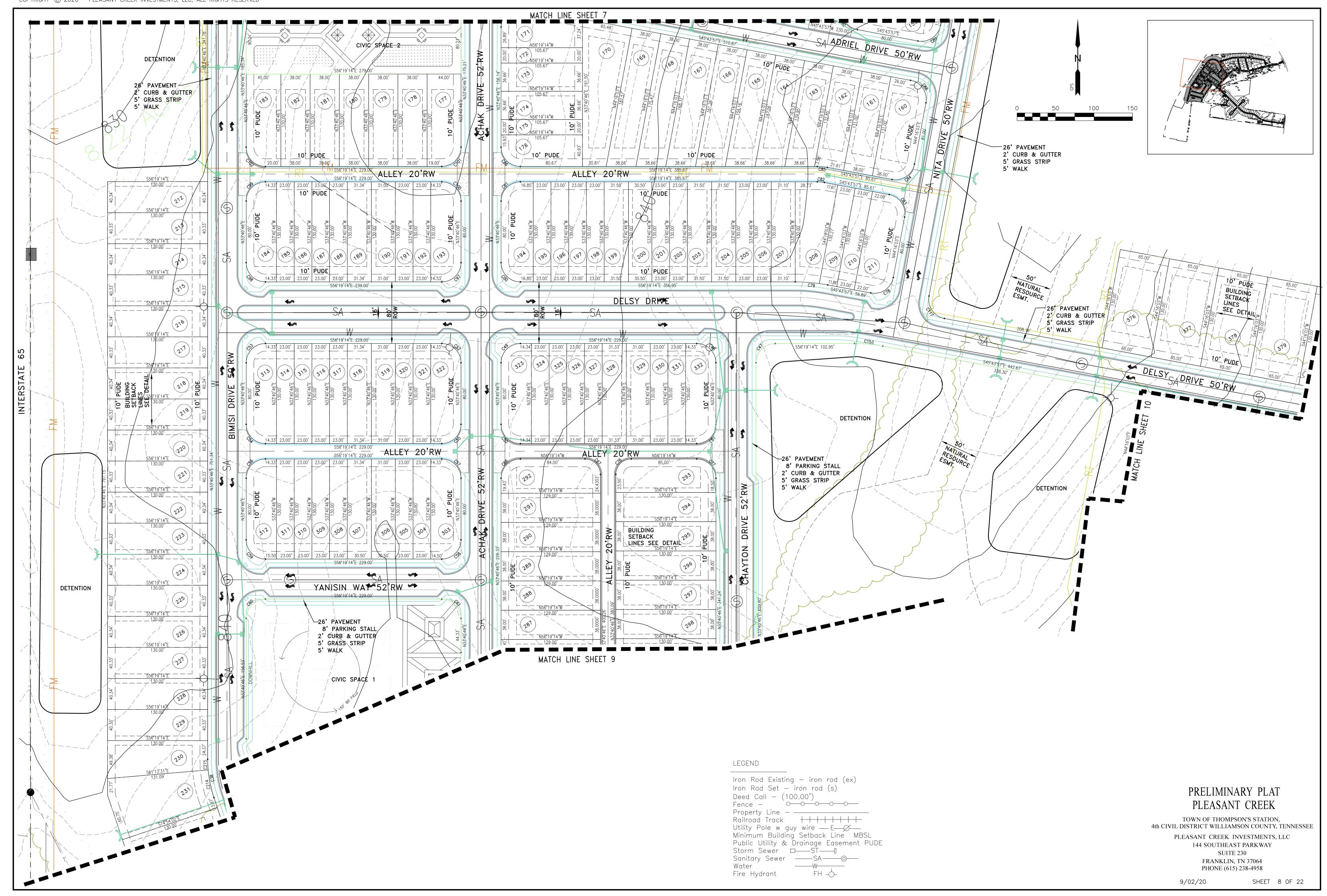


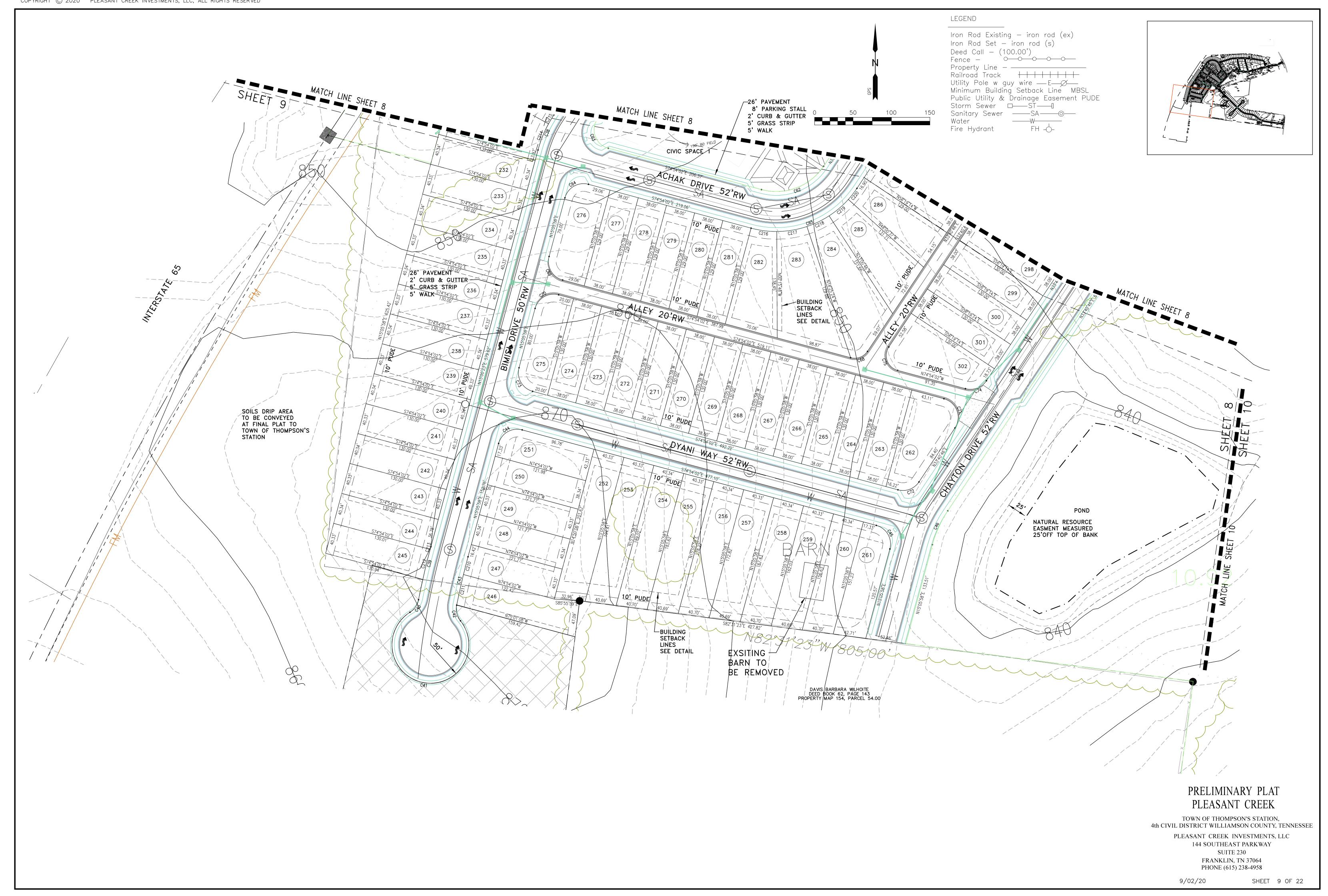


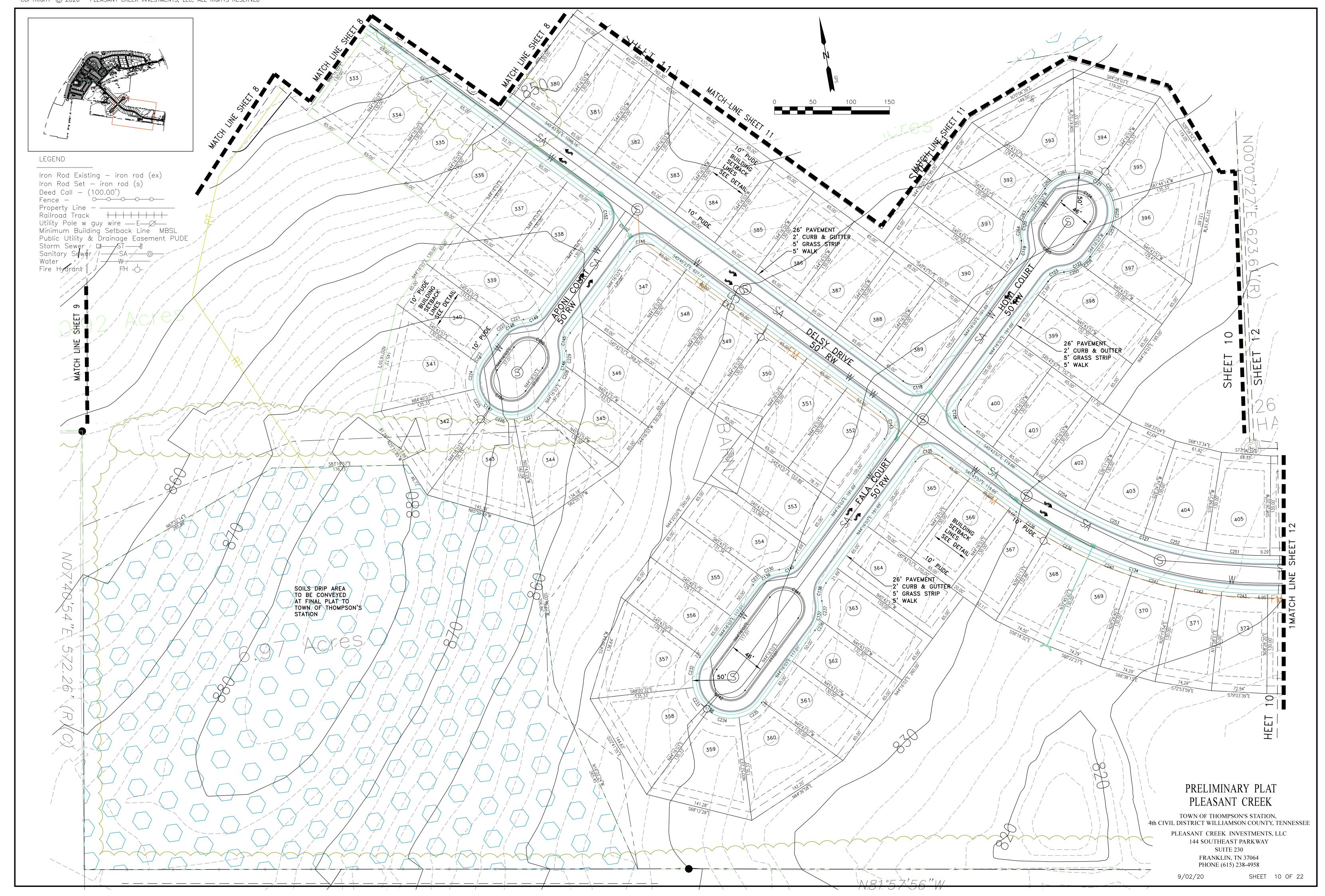


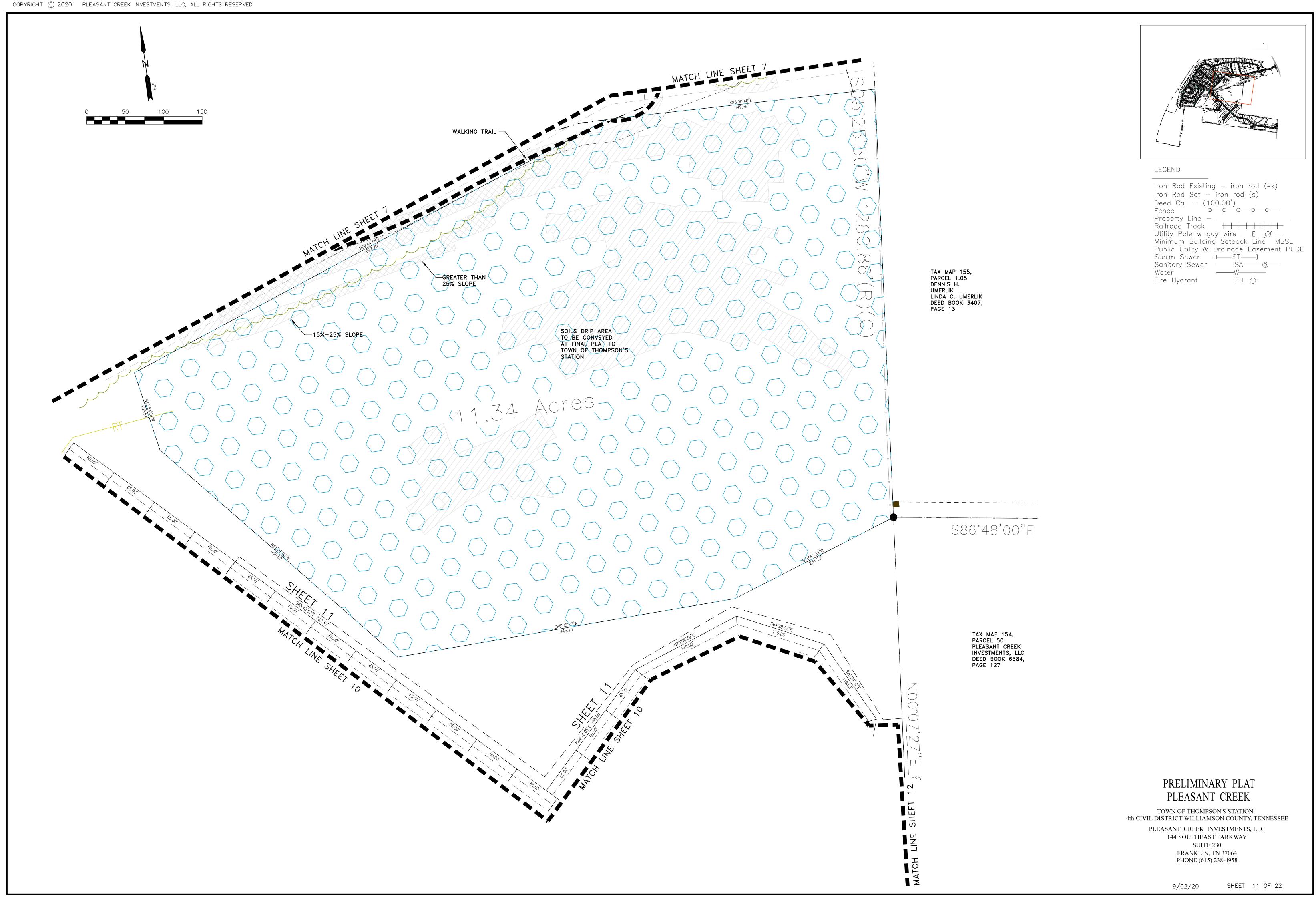


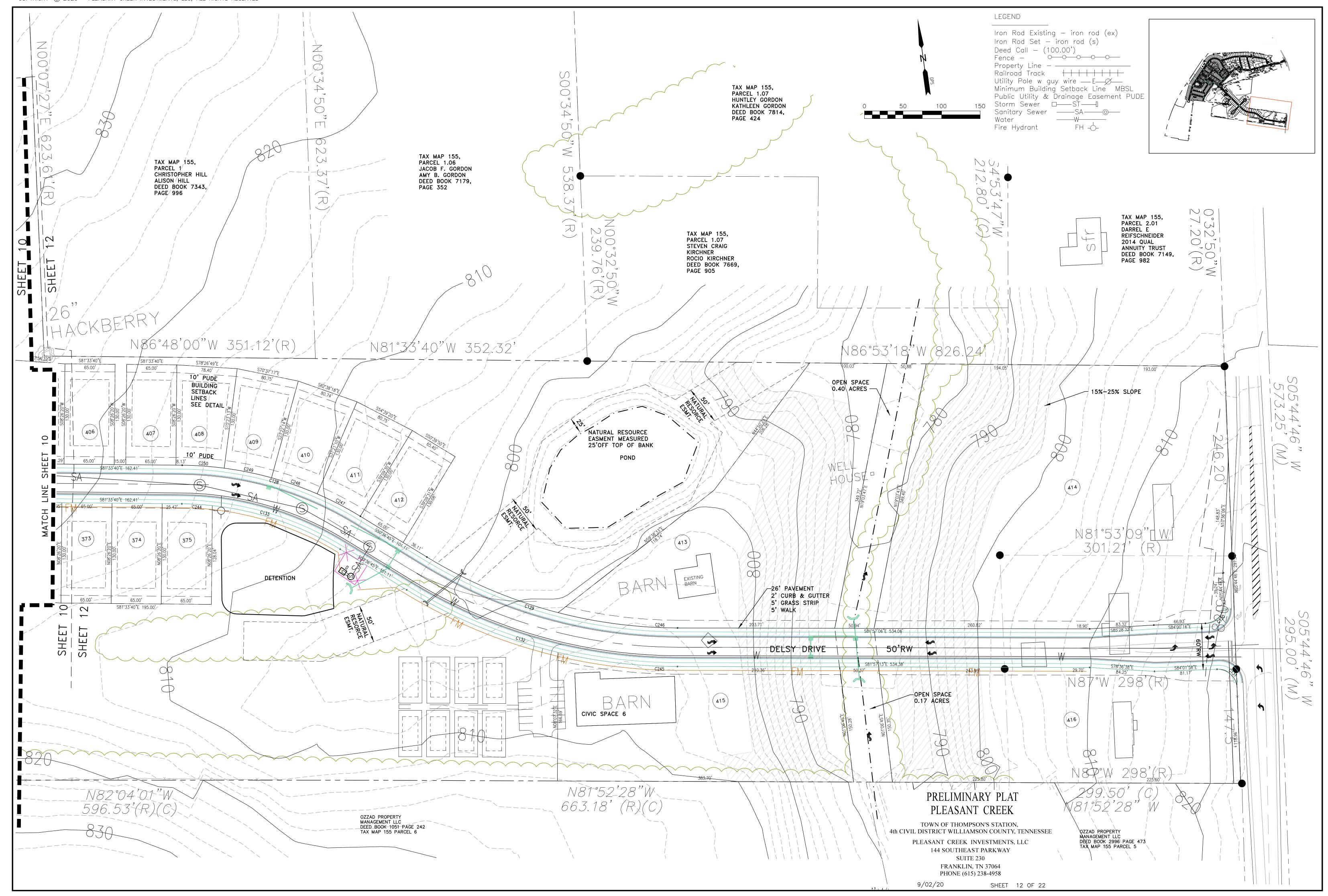












LOT AREA TABLE

# CURVE DATA

| 1         1           2         1           3         1           4         1           5         8           6         8           7         8           8         9           8         8           9         8           10         8           11         12           8         9           10         8           11         12           13         8           14         8           15         16           17         8           18         19           20         8           21         8           22         8           23         24           24         25           26         8           27         28           29         8           30         1           31         32           33         34           33         34           33         34           44         44           44         45   | q. 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Feet 5,243 5,244 5,243 5,244 5,253 6,492 4,943 4,939 4,930 4,680 5,025 7,889 7,732 7,516 7,296 7,080 6,861 6,645 6,426 6,209 6,148 6,948 4,940   | Acres 0.12 0.12 0.12 0.12 0.12 0.15 0.11 0.11 0.11 0.11 0.11 0.12 0.18 0.18 0.18 0.17 0.16 0.16 0.15 0.15 0.11 0.11 0.11 0.11 0.11 0.11  | Lot No  | 10,815 8,450 8,461 10,030 10,463 8,966 8,450 8,689 8,689 8,689 8,689 8,450 9,630 9,630 10,678 8,319 9,630   |  |   |  |   |  |  |   |   |  |  |   |  |  |   |   |   |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |   |  |  |   |  |   |   |  |  |   |  |  |   |  |   |  |  |   |  |   |  |  |   |  |   |  |  |  |   |  |   |  |  |   |   |   |   |  |  |   |  |   |   |  |   |  |  |  |  |   |  |  |   |  |  |  |   |   |   |  |   |   |  |  |   |  |   |   |    |   |  |   |  |  |  |   |  |  |   |    |   |  |   |   |  |  |  |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |  |  |  |  |  |   |   |  |  |   |   |  |  |   |  |  |                                 |   |                              |                   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| 122<br>123<br>124<br>125<br>126<br>127<br>128<br>129<br>130<br>131<br>132<br>133<br>134<br>135<br>136<br>137<br>138<br>139<br>140<br>141<br>142<br>143<br>144<br>145<br>146<br>147<br>148<br>149<br>150<br>151<br>152<br>153<br>154<br>155<br>156<br>157<br>158<br>159<br>160<br>161<br>162<br>163<br>164<br>165<br>166<br>167<br>168<br>169<br>170<br>171<br>172<br>173<br>174<br>175<br>176<br>177<br>178 | 2,540 4,656 4,656 2,540 2,540 6,145 4,741 2,540 2,540 4,656 4,678 2,540 2,540 4,656 4,678 2,540 2,540 5,178 4,672 2,990 2,990 4,095 4,095 4,095 2,990 2,900  | 0.06 0.11 0.06 0.06 0.04 0.11 0.06 0.06 0.11 0.01 0.01 0.01 0.01   | 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294   | 5,244 5,243 5,244 5,253 6,492 4,943 4,939 4,930 4,680 5,025 7,889 7,732 7,516 7,296 7,080 6,861 6,645 6,426 6,209 6,148 6,948 4,940  | 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| 4       1         5       6         7       8         8       9         10       8         11       8         12       8         13       14         15       8         16       9         17       8         18       19         20       8         21       8         22       8         23       24         25       8         26       27         28       8         29       8         30       1         31       9         32       9         33       9         34       9         30       1         31       9         32       9         33       9         34       9         35       1         37       38         37       38         37       38         37       38         37       39         40       41         42  | 12,870 8,450  | 0.30 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.1  | 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  | 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294   | 5,244 5,253 6,492 4,943 4,939 4,930 4,680 5,025 7,889 7,732 7,516 7,296 7,080 6,861 6,645 6,426 6,209 6,148 6,948 4,940  | 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8,637 8,795 8,689 8,689 8,450 9,925 9,493 8,319 10,678 9,630 9,630 10,678 9,630 9,630 10,678 9,630  |  |   |  |   |  |  |   |   |  |  |   |  |  |   |   |   |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |   |  |  |   |  |   |   |  |  |   |  |  |   |  |   |  |  |   |  |   |  |  |   |  |   |  |  |  |   |  |   |  |  |   |   |   |   |  |  |   |  |   |   |  |   |  |  |  |  |   |  |  |   |  |  |  |   |   |   |  |   |   |  |  |   |  |   |   |    |   |  |   |  |  |  |   |  |  |   |    |   |  |   |   |  |  |  |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |  |  |  |  |  |   |   |  |  |   |   |  |  |   |  |  |                                 |   |                              |                          |                         |  |  |  |  |   |                                      |                          |                                  |                              |                   |                |  |                                    |  |  |   |                      |            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             |                |      |            |                |      |            |                |      |  |  |                      |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |     |        |      |            |                |      |            |                 |      |  |  |  |            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      |                          |       |      |            |                  |      |  |  |
| 6         8           7         8           8         8           9         8           10         8           11         12           13         8           14         8           15         16           17         8           18         19           20         8           21         8           22         23           24         8           25         8           29         8           30         1           31         3           22         28           28         29           8         29           8         8           29         8           30         1           31         32           32         3           33         34           34         34           45         3           40         3           41         42           43         44           45         3           46         4   | 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365<br>366<br>367<br>368<br>369<br>370<br>371<br>372<br>373<br>374<br>375<br>376<br>377<br>378<br>379<br>380<br>381<br>382<br>383<br>384<br>385<br>386<br>387<br>388<br>389<br>390<br>391<br>392<br>393<br>394<br>395<br>396<br>397<br>398<br>399<br>400<br>401<br>402<br>403<br>404<br>405<br>406<br>407<br>408<br>409<br>410<br>411<br>412  | 8,966 8,450 8,689 8,689 8,689 8,689 8,450 9,925 9,493 9,925 9,493 9,925 9,630 10,678 8,319 9,630 10,678 8,319 9,630 10,678 8,319 9,630 10,678 8,319 9,630 10,678 8,319 9,630 10,678 8,319 9,630 10,678 8,319 9,630 10,678 8,319 9,630 10,678 8,319 9,630 10,678 8,319 9,630 10,678 8,319 9,630 10,678 8,319 9,630 10,678 8,319 9,925 8,966 8,450 9,108 9,252 9,279  |  |   |  |   |  |  |   |   |  |  |   |  |  |   |   |   |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |   |  |  |   |  |   |   |  |  |   |  |  |   |  |   |  |  |   |  |   |  |  |   |  |   |  |  |  |   |  |   |  |  |   |   |   |   |  |  |   |  |   |   |  |   |  |  |  |  |   |  |  |   |  |  |  |   |   |   |  |   |   |  |  |   |  |   |   |    |   |  |   |  |  |  |   |  |  |   |    |   |  |   |   |  |  |  |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |  |  |  |  |  |   |   |  |  |   |   |  |  |   |  |  |                                 |   |                              |                          |                         |  |  |  |  |   |                                      |                          |                                  |                              |                   |                |  |                                    |  |  |   |                      |            |                |      |     |  |    |                |  |                          |                         |      |  |       |  |  |       |   |       |                                      |            |                |  |  |         |      |     |                  |  |         |                      |     |  |      |            |                |      |            |                  |    |        |      |  |       |      |     |       |      |       |         |   |                  |  |            |                |      |            |                |      |  |  |   |                  |      |            |                |      |            |                |      |  |  |    |        |      |     |       |      |     |       |      |  |  |    |                 |      |            |                |      |            |                |      |  |  |  |                        |      |            |                |      |            |                |      |  |  |    |                  |      |            |                |      |            |                |      |  |  |    |       |      |     |       |      |     |       |      |  |  |    |                |      |            |                |      |            |                |      |  |  |    |                |      |            |                |      |            |                |      |  |  |    |                |      |  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| 7         8           8         9           10         8           11         8           12         8           13         14           15         16           17         8           18         8           19         8           20         8           21         8           22         8           23         24           25         8           29         8           29         8           29         8           29         8           29         8           30         1           31         3           32         3           33         3           34         3           34         3           37         3           38         3           37         3           38         3           39         3           40         3           41         1           42         4           48         4  | 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0.16 0.16 0.15 0.15 0.14 0.14 0.16 0.11 0.11 0.11 0.11 0.11 0.11 0.11   | 368<br>369<br>370<br>371<br>372<br>373<br>374<br>375<br>376<br>377<br>378<br>379<br>380<br>381<br>382<br>383<br>384<br>385<br>386<br>387<br>388<br>390<br>391<br>392<br>393<br>394<br>395<br>396<br>397<br>398<br>399<br>400<br>401<br>402<br>403<br>404<br>405<br>406<br>407<br>408<br>409<br>410<br>411<br>412  | 8,795 8,689 8,689 8,689 8,574 8,450 9,925 9,630 10,678 8,319 10,678 9,630 10,678 8,319 9,630 10,678 8,319 9,630 9,630 10,678 8,319 9,925 9,630 9,630 10,678 8,319 9,630 9,630 10,678 8,319 9,493 9,925 9,630 9,630 10,678 8,319 9,493 9,925 9,630 9,630 10,678 8,319 9,493 9,925 8,966 8,450 9,108  |  |   |  |   |  |  |   |   |  |  |   |  |  |   |   |   |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |   |  |  |   |  |   |   |  |  |   |  |  |   |  |   |  |  |   |  |   |  |  |   |  |   |  |  |  |   |  |   |  |  |   |   |   |   |  |  |   |  |   |   |  |   |  |  |  |  |   |  |  |   |  |  |  |   |   |   |  |   |   |  |  |  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     |     |       |      |       |         |   |                  |  |            |                |      |            |                |      |  |  |   |                  |      |            |                |      |            |                |      |  |  |    |        |      |     |       |      |     |       |      |  |  |    |                 |      |            |                |      |            |                |      |  |  |  |                        |      |            |                |      |            |                |      |  |  |    |                  |      |            |                |      |            |                |      |  |  |    |       |      |     |       |      |     |       |      |  |  |    |                |      |            |                |      |            |                |      |  |  |    |                |      |            |                |      |            |                |      |  |  |    |                |      |            |       |      |            |                |      |  |  |  |       |      |     |                |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |       |      |     |       |      |     |       |      |  |  |                                      |                |      |            |                |      |            |                |      |  |  |                                      |                |      |            |                |      |            |                |      |  |  |                      |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |     |        |      |            |                |      |            |                 |      |  |  |  |                |      |            |                |      |            |                  |      |  |  |       |                |      |     |       |      |     |        |      |  |  |       |                                  |      |            |                |      |            |                |      |  |  |       |  |      |            |                |      |            |                |      |  |  |       |  |      |            |                |      |            |                |      |  |  |       |   |      |     |       |      |     |       |      |  |  |       |   |      |            |                |      |            |                  |      |  |  |       |   |                      |            |                |      |            |                |      |  |  |       |  |                              |  |       |      |     |       |      |  |  |     |  |  |     |                |      |            |        |      |  |  |                |   |                                      |                          |       |      |            |                  |      |  |  |
| 11       8         12       8         13       14         15       8         16       9         17       8         18       19         20       8         21       8         22       8         23       24         25       26         27       8         29       30         30       1         31       9         32       9         33       9         34       9         35       1         36       8         37       38         39       7         40       7         41       1         42       1         43       9         50       1         51       1         52       2         53       1         54       1         55       5         56       9         57       9         58       1         55       9         57  | 8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>9,100<br>9,100<br>9,100<br>9,096<br>10,580<br>8,943<br>9,254<br>7,665<br>7,800<br>7,800<br>10,124<br>13,108<br>9,390<br>9,420<br>8,775<br>8,775<br>9,328<br>15,232<br>19,887<br>20,775<br>16,900<br>18,245<br>9,425<br>9,425<br>9,425   | 0.19 0.19 0.19 0.19 0.20 0.21 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.1   | 131<br>132<br>133<br>134<br>135<br>136<br>137<br>138<br>139<br>140<br>141<br>142<br>143<br>144<br>145<br>146<br>147<br>148<br>149<br>150<br>151<br>152<br>153<br>154<br>155<br>156<br>157<br>158<br>159<br>160<br>161<br>162<br>163<br>164<br>165<br>166<br>167<br>168<br>169<br>170<br>171<br>172<br>173<br>174<br>175<br>176<br>177<br>178  | 4,656 4,678 2,540 2,540 4,656 4,678 2,540 2,540 5,178 4,672 2,990 2,990 4,095 4,095 2,990 2,990 2,990 2,990 2,990 2,990 2,990 2,990 2,990 2,990 2,990 2,990 2,990 2,990 2,990 2,990 2,990 2,990 4,095 4,095 2,990 2,990 4,095 4,095 2,990 2,990 4,095 4,095 2,990 2,990 4,095 4,095 2,990 2,990 4,672 6,413 4,978 4,988 5,183 5,453 5,723 5,993 6,263 6,533 6,803 8,927 4,775 2,113 3,874 2,113 4,191 5,146  | 0.11<br>0.11<br>0.06<br>0.06<br>0.11<br>0.06<br>0.06<br>0.12<br>0.11<br>0.07<br>0.07<br>0.07<br>0.09<br>0.07<br>0.07<br>0.07<br>0.07<br>0.07<br>0.07<br>0.07<br>0.07<br>0.07<br>0.07<br>0.07<br>0.07<br>0.07<br>0.07<br>0.07<br>0.07<br>0.07<br>0.07<br>0.07<br>0.07<br>0.07<br>0.07<br>0.07<br>0.07<br>0.07<br>0.07<br>0.07<br>0.07<br>0.07<br>0.07<br>0.07<br>0.07<br>0.07<br>0.07<br>0.07<br>0.07<br>0.07<br>0.07<br>0.07<br>0.07<br>0.07<br>0.07<br>0.07<br>0.07<br>0.07<br>0.07<br>0.07<br>0.07<br>0.07<br>0.07<br>0.07<br>0.07<br>0.07<br>0.07<br>0.07<br>0.07<br>0.07<br>0.07<br>0.07<br>0.07<br>0.07<br>0.07<br>0.07<br>0.07<br>0.07<br>0.07<br>0.07<br>0.07<br>0.07<br>0.07<br>0.07<br>0.07<br>0.07<br>0.07<br>0.07<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.01<br>0.11<br>0.15<br>0.11<br>0.12<br>0.13<br>0.14<br>0.15<br>0.16<br>0.20<br>0.11<br>0.05<br>0.09<br>0.09<br>0.09<br>0.09<br>0.10<br>0.11<br>0.15<br>0.16<br>0.16<br>0.17<br>0.15<br>0.16<br>0.16<br>0.17<br>0.17<br>0.18<br>0.19<br>0.19<br>0.19<br>0.10<br>0.10<br>0.10<br>0.11<br>0.15<br>0.16<br>0.20<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.01<br>0.10<br>0.11<br>0.15<br>0.16<br>0.20<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09   | 251<br>252<br>253<br>254<br>255<br>256<br>257<br>258<br>259<br>260<br>261<br>262<br>263<br>264<br>265<br>266<br>267<br>268<br>269<br>270<br>271<br>272<br>273<br>274<br>275<br>276<br>277<br>278<br>279<br>280<br>281<br>282<br>283<br>284<br>285<br>286<br>287<br>288<br>299<br>290<br>291<br>292<br>293<br>294  | 5,025 7,889 7,732 7,516 7,296 7,080 6,861 6,645 6,426 6,209 6,148 6,948 4,940 4,902  | 0.12<br>0.18<br>0.18<br>0.17<br>0.17<br>0.16<br>0.16<br>0.15<br>0.15<br>0.14<br>0.14<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11                 | 370<br>371<br>372<br>373<br>374<br>375<br>376<br>377<br>378<br>379<br>380<br>381<br>382<br>383<br>384<br>385<br>386<br>387<br>388<br>390<br>391<br>392<br>393<br>394<br>395<br>396<br>397<br>398<br>399<br>400<br>401<br>402<br>403<br>404<br>405<br>406<br>407<br>408<br>409<br>410<br>411<br>412  | 8,689 8,689 8,689 8,689 8,450 9,925 9,630 10,678 8,319 9,630 10,678 8,319 9,630 10,678 8,319 9,630 9,630 10,678 8,319 9,630 9,630 9,630 10,678 8,319 9,493 9,925 9,630 9  |  |   |  |   |  |  |   |   |  |  |   |  |  |   |   |   |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |   |  |  |   |  |   |   |  |  |   |  |  |   |  |   |  |  |   |  |   |  |  |   |  |   |  |  |  |   |  |   |  |  |   |   |   |   |  |  |   |  |   |   |  |   |  |  |  |  |   |  |  |   |  |  |  |   |   |   |  |   |   |  |  |   |  |   |   |    |   |  |   |  |  |  |   |  |  |   |    |   |  |   |   |  |  |  |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |  |  |  |  |  |   |   |  |  |   |   |  |  |   |  |  |                                 |   |                              |                          |                         |  |  |  |  |   |                                      |                          |                                  |                              |                   |                |  |                                    |  |  |   |                      |            |                |      |     |  |    |                |  |                          |                         |      |  |       |  |  |       |   |       |                                      |            |                |  |  |         |      |     |                  |  |         |                      |     |  |      |            |                |      |            |                  |    |        |      |  |       |      |     |       |      |       |         |   |                  |  |            |                |      |            |                |      |  |  |   |                  |      |           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|      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |     |        |      |            |                |      |            |                 |      |  |  |  |                |      |            |                |      |            |                  |      |  |  |       |                |      |     |       |      |     |        |      |  |  |       |                                  |      |            |                |      |            |                |      |  |  |       |  |      |            |                |      |            |                |      |  |  |       |  |      |            |                |      |            |                |      |  |  |       |   |      |     |       |      |     |       |      |  |  |       |   |      |            |                |      |            |                  |      |  |  |       |   |                      |            |                |      |            |                |      |  |  |       |  |                              |  |       |      |     |       |      |  |  |     |  |  |     |                |      |            |        |      |  |  |                |   |                                      |                          |       |      |            |                  |      |  |  |
| 12       8         13       14         15       8         16       9         17       8         18       19         20       8         21       22         23       24         25       26         27       8         28       8         29       30         31       9         32       9         33       34         35       1         36       8         37       38         39       7         40       7         41       1         42       1         43       9         44       9         50       1         51       1         52       2         53       1         54       1         55       5         57       5         58       1         50       1         51       1         52       2         53       1         54  | 8,450<br>8,450<br>8,450<br>8,789<br>9,296<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,910<br>9,100<br>9,096<br>10,580<br>8,943<br>9,254<br>7,800<br>10,124<br>13,108<br>9,390<br>9,420<br>8,775<br>8,775<br>8,775<br>9,328<br>15,232<br>19,887<br>20,775<br>16,900<br>18,245<br>9,425<br>9,425<br>9,425  | 0.19 0.19 0.20 0.21 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.1   | 132<br>133<br>134<br>135<br>136<br>137<br>138<br>139<br>140<br>141<br>142<br>143<br>144<br>145<br>146<br>147<br>148<br>149<br>150<br>151<br>152<br>153<br>154<br>155<br>156<br>157<br>158<br>159<br>160<br>161<br>162<br>163<br>164<br>165<br>166<br>167<br>168<br>169<br>170<br>171<br>172<br>173<br>174<br>175<br>176<br>177  | 4,678 2,540 2,540 4,656 4,678 2,540 2,540 5,178 4,672 2,990 2,990 4,095 4,095 2,990 2,990 2,990 2,990 2,990 2,990 2,990 2,990 2,990 2,990 2,990 2,990 2,990 2,990 4,672 2,990 2,990 4,095 4,095 4,095 2,990 2,990 4,672 6,413 4,978 4,988 5,183 5,453 5,723 5,993 6,263 6,533 6,803 8,927 4,775 2,113 3,874 2,113 4,191 5,146  | 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                                | 371<br>372<br>373<br>374<br>375<br>376<br>377<br>378<br>379<br>380<br>381<br>382<br>383<br>384<br>385<br>386<br>387<br>388<br>390<br>391<br>392<br>393<br>394<br>395<br>396<br>397<br>398<br>399<br>400<br>401<br>402<br>403<br>404<br>405<br>406<br>407<br>408<br>409<br>410<br>411<br>412   | 8,689 8,450 9,925 9,493 9,925 9,493 9,630 10,678 9,630 10,678 9,630 9,630 10,678 9,630 9,6  |  |   |  |   |  |  |   |   |  |  |   |  |  |   |   |   |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |   |  |  |   |  |   |   |  |  |   |  |  |   |  |   |  |  |   |  |   |  |  |   |  |   |  |  |  |   |  |   |  |  |   |   |   |   |  |  |   |  |   |   |  |   |  |  |  |  |   |  |  |   |  |  |  |   |   |   |  |   |   |  |  |   |  |   |   |    |   |  |   |  |  |  |   |  |  |   |    |   |  |   |   |  |  |  |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |  |  |  |  |  |   |   |  |  |   |   |  |  |   |  |  |                                 |   |                              |         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| 14       8         15       16         17       8         18       19         20       8         21       8         22       8         23       24         25       8         26       27         28       8         29       8         30       1         31       32         33       34         35       1         36       8         37       3         38       3         39       40         41       1         42       1         43       9         44       9         5       9         5       1         5       1         5       1         5       1         5       1         5       1         5       1         5       1         5       2         5       3         5       3         5       3         5       3   | 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| 16       9         17       18         18       19         20       8         21       8         22       8         23       9         24       8         25       26         28       8         29       30         30       1         31       9         30       1         31       9         30       1         31       9         30       1         31       9         30       1         31       9         30       1         31       9         32       9         33       9         40       9         41       1         42       1         43       9         44       9         45       9         50       1         51       1         52       2         53       1         54       1         55       9         56  | 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256<br>257<br>258<br>259<br>260<br>261<br>262<br>263<br>264<br>265<br>266<br>267<br>268<br>269<br>270<br>271<br>272<br>273<br>274<br>275<br>276<br>277<br>278<br>279<br>280<br>281<br>282<br>283<br>284<br>285<br>286<br>287<br>288<br>299<br>290<br>291<br>292<br>293<br>294   | 7,080 6,861 6,861 6,645 6,426 6,209 6,148 6,948 4,940 4,940 4,940 4,940 4,940 4,940 4,940 4,940 4,940 4,940 4,940 4,940 4,940 4,940 4,940 4,940 4,940 4,940 5,582 6,706 4,902  | 0.16 0.15 0.15 0.15 0.14 0.14 0.16 0.11 0.11 0.11 0.11 0.11 0.11 0.11  | 375<br>376<br>377<br>378<br>379<br>380<br>381<br>382<br>383<br>384<br>385<br>386<br>387<br>388<br>389<br>390<br>391<br>392<br>393<br>394<br>395<br>396<br>397<br>398<br>399<br>400<br>401<br>402<br>403<br>404<br>405<br>406<br>407<br>408<br>409<br>410<br>411<br>412  | 8,424 8,450 8,450 8,450 8,450 8,450 8,450 8,450 8,450 8,450 8,450 8,450 8,450 9,925 9,493 9,630 10,678 8,319 10,678 8,319 9,630 10,678 8,319 9,630 9,630 10,678 8,319 9,493 9,925 8,966 8,450 9,244 9,547 9,528 9,688 8,450 9,108 9,252 9,279   |  |   |  |   |  |  |   |   |  |  |   |  |  |   |   |   |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |   |  |  |   |  |   |   |  |  |   |  |  |   |  |   |  |  |   |  |   |  |  |   |  |   |  |  |  |   |  |   |  |  |   |   |   |   |  |  |   |  |   |   |  |   |  |  |  |  |   |  |  |   |  |  |  |   |   |   |  |   |   |  |  |   |  |   |   |    |   |  |   |  |  |  |   |  |  |   |    |   |  |   |   |  |  |  |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |  |  |  |  |  |   |   |  |  |   |   |  |  |   |  |  |                                 |   |                              |                          |                         |  |  |  |  |   |                                      |                          |                                  |                              |                   |                |  |                                    |  |  |   |                      |            |                |      |     |  |    |                |  |                          |                         |      |  |       |  |  |       |   |       |                                      |            |                |  |  |         |      |     |                  |  |         |                      |     |  |      |            |                |      |            |                  |    |        |      |  |       |      |     |       |      |       |         |   |                  |  |            |                |      |            |                |      |  |  |   |                  |      |            |                |      |            |                |      |  |  |    |        |      |     |       |      |     |       |      |  |  |    |                 |      |            |                |      |            |                |      |  |  |  |                        |      |            |                |      |            |                |      |  |  |    |                  |      |            |                |      |            |      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| 17       8         18       19         20       8         21       8         22       8         23       24         25       8         26       8         29       8         30       1         31       32         33       34         35       1         36       8         37       38         39       40         41       1         42       1         43       4         45       8         49       9         50       1         51       1         52       2         53       1         54       1         55       5         56       5         57       5         58       1         60       1         61       1         62       1         63       1         64       3         65       1         66       1         67  | 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6,861<br>6,645<br>6,426<br>6,209<br>6,148<br>6,948<br>4,940<br>4,940<br>4,940<br>4,940<br>4,940<br>4,940<br>4,940<br>4,940<br>4,940<br>4,940<br>4,940<br>4,940<br>4,940<br>4,940<br>4,940<br>4,940<br>4,940<br>4,940<br>4,940<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902 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  | 376<br>377<br>378<br>379<br>380<br>381<br>382<br>383<br>384<br>385<br>386<br>387<br>388<br>389<br>390<br>391<br>392<br>393<br>394<br>395<br>396<br>397<br>398<br>399<br>400<br>401<br>402<br>403<br>404<br>405<br>406<br>407<br>408<br>409<br>410<br>411<br>412   | 8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>9,925<br>9,493<br>8,319<br>10,678<br>8,319<br>9,630<br>10,678<br>8,319<br>9,630<br>9,630<br>9,630<br>9,630<br>9,925<br>8,966<br>8,450<br>8,450<br>8,450<br>9,108<br>8,450<br>9,244<br>9,547<br>9,528<br>9,108<br>9,252<br>9,279  |  |   |  |   |  |  |   |   |  |  |   |  |  |   |   |   |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |   |  |  |   |  |   |   |  |  |   |  |  |   |  |   |  |  |   |  |   |  |  |   |  |   |  |  |  |   |  |   |  |  |   |   |   |   |  |  |   |  |   |   |  |   |  |  |  |  |   |  |  |   |  |  |  |   |   |   |  |   |   |  |  |   |  |   |   |    |   |  |   |  |  |  |   |  |  |   |    |   |  |   |   |  |  |  |  |  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              |      |            |                |      |  |  |   |                  |      |            |                |      |            |                |      |  |  |    |        |      |     |       |      |     |       |      |  |  |    |                 |      |            |                |      |            |                |      |  |  |  |                        |      |            |                |      |            |                |      |  |  |    |                  |      |            |                |      |            |                |      |  |  |    |       |      |     |       |      |     |       |      |  |  |    |                |      |            |                |      |            |                |      |  |  |    |                |      |            |                |      |            |                |      |  |  |    |                |      |            |       |      |            |                |      |  |  |  |       |      |     |                |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |       |      |     |       |      |     |       |      |  |  |                                      |                |      |            |                |      |            |                |      |  |  |                                      |                |      |            |                |      |            |                |      |  |  |                      |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |     |        |      |            |                |      |            |                 |      |  |  |  |                |      |            |                |      |            |                  |      |  |  |       |                |      |     |       |      |     |        |      |  |  |       |                                  |      |            |                |      |            |                |      |  |  |       |  |      |            |                |      |            |                |      |  |  |       |  |      |            |                |      |            |                |      |  |  |       |   |      |     |       |      |     |       |      |  |  |       |   |      |            |                |      |            |                  |      |  |  |       |   |                      |            |                |      |            |                |      |  |  |       |  |                              |  |       |      |     |       |      |  |  |     |  |  |     |                |      |            |        |      |  |  |                |   |                                      |                          |       |      |            |                  |      |  |  |
| 19         8           20         8           21         8           22         8           23         9           24         25           26         8           27         8           28         29           30         1           31         9           32         9           33         34           35         1           36         8           37         38           39         7           40         7           41         1           42         1           43         9           44         9           45         9           46         8           47         8           48         8           49         9           50         1           51         1           52         2           53         1           54         1           55         9           56         9           57         9   | 8,450<br>8,450<br>8,450<br>8,982<br>9,331<br>8,451<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,642<br>11,828<br>9,100<br>9,100<br>9,100<br>9,096<br>10,580<br>8,943<br>9,254<br>7,665<br>7,800<br>7,800<br>10,124<br>13,108<br>9,880<br>9,390<br>9,420<br>8,775<br>8,775<br>8,775<br>9,328<br>15,232<br>19,887<br>20,775<br>16,900<br>18,245<br>9,425<br>9,425  | 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19  | 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177   | 5,178 4,672 2,990 2,990 4,095 4,095 2,990 2,990 2,990 2,990 2,990 2,990 2,990 2,990 2,990 4,095 4,095 4,095 2,990 4,095 4,095 2,990 4,672 6,413 4,978 4,988 5,183 5,453 5,723 5,993 6,263 6,533 6,803 8,927 4,775 2,113 3,874 2,113 4,191 5,146  | 0.12<br>0.11<br>0.07<br>0.07<br>0.09<br>0.09<br>0.07<br>0.07<br>0.07<br>0.07<br>0.07<br>0.07<br>0.07<br>0.07<br>0.07<br>0.07<br>0.09<br>0.09<br>0.09<br>0.09<br>0.11<br>0.15<br>0.11<br>0.12<br>0.13<br>0.13<br>0.14<br>0.14<br>0.15<br>0.16<br>0.20<br>0.09<br>0.09   | 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294   | 6,426 6,209 6,148 6,948 4,940 4,940 4,940 4,940 4,940 4,940 4,940 4,940 4,940 4,940 4,940 4,940 4,940 4,940 4,940 4,940 4,940 4,962 4,902  | 0.15<br>0.14<br>0.14<br>0.16<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11   | 378<br>379<br>380<br>381<br>382<br>383<br>384<br>385<br>386<br>387<br>388<br>389<br>390<br>391<br>392<br>393<br>394<br>395<br>396<br>397<br>398<br>399<br>400<br>401<br>402<br>403<br>404<br>405<br>406<br>407<br>408<br>409<br>410<br>411<br>412   | 8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>9,925<br>9,493<br>10,678<br>8,319<br>9,630<br>10,678<br>8,319<br>9,630<br>9,630<br>9,630<br>9,630<br>9,630<br>9,925<br>8,966<br>8,450<br>8,450<br>9,244<br>9,547<br>9,528<br>9,108<br>8,450<br>9,252<br>9,279  |  |   |  |   |  |  |   |   |  |  |   |  |  |   |   |   |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |   |  |  |   |  |   |   |  |  |   |  |  |   |  |   |  |  |   |  |   |  |  |   |  |   |  |  |  |   |  |   |  |  |   |   |   |   |  |  |   |  |   |   |  |   |  |  |  |  |   |  |  |   |  |  |  |   |   |   |  |   |   |  |  |   |  |   |   |    |   |  |   |  |  |  |   |  |  |   |    |   |  |   |   |  |  |  |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |  |  |  |  |  |   |   |  |  |   |   |  |  |   |  |  |                                 |   |                              |                          |                         |  |  |  |  |   |                                      |                          |                                  |                              |                   |                |  |                                    |  |  |   |                      |            |                |      |     |  |    |                |  |                          |                         |      |  |       |  |  |       |   |       |                                      |            |                |  |  |         |      |     |                  |  |         |                      |     |  |      |            |                |      |            |                  |    |        |      |  |       |      |     |       |      |       |         |   |                  |  |            |                |      |            |               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         |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |       |      |     |       |      |     |       |      |  |  |                                      |                |      |            |                |      |            |                |      |  |  |                                      |                |      |            |                |      |            |                |      |  |  |                      |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |      |       |      |     |      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 |  |       |   |      |            |                |      |            |                  |      |  |  |       |   |                      |            |                |      |            |                |      |  |  |       |  |                              |  |       |      |     |       |      |  |  |     |  |  |     |                |      |            |        |      |  |  |                |   |                                      |                          |       |      |            |                  |      |  |  |
| 21         8           22         8           23         9           24         8           25         8           26         27           28         8           29         8           30         1           31         3           32         3           33         3           34         3           35         1           36         8           37         3           38         3           39         3           40         3           41         1           42         1           43         9           44         9           45         9           46         8           47         8           48         8           49         9           50         1           51         1           52         2           53         1           54         1           55         3           56         3  | 8,450<br>8,982<br>9,331<br>8,451<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,642<br>11,828<br>9,100<br>9,100<br>9,100<br>9,096<br>10,580<br>8,943<br>9,254<br>7,665<br>7,800<br>7,800<br>10,124<br>13,108<br>9,880<br>9,390<br>9,420<br>8,775<br>8,775<br>8,775<br>8,775<br>9,328<br>15,232<br>19,887<br>20,775<br>16,900<br>18,245<br>9,425<br>9,425   | 0.19 0.21 0.21 0.19 0.19 0.19 0.19 0.19 0.20 0.27 0.21 0.21 0.21 0.21 0.21 0.21 0.21 0.22 0.22   | 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177   | 2,990 2,990 4,095 4,095 2,990 2,990 2,990 4,759 4,672 2,990 2,990 2,990 2,990 4,095 4,095 4,095 2,990 4,672 6,413 4,978 4,988 5,183 5,453 5,723 5,993 6,263 6,533 6,803 8,927 4,775 2,113 3,874 2,113 4,191 5,146  | 0.07<br>0.09<br>0.09<br>0.07<br>0.07<br>0.07<br>0.07<br>0.07<br>0.07<br>0.07<br>0.07<br>0.07<br>0.07<br>0.07<br>0.09<br>0.09<br>0.09<br>0.01<br>0.11<br>0.15<br>0.11<br>0.11<br>0.15<br>0.11<br>0.12<br>0.13<br>0.13<br>0.14<br>0.14<br>0.15<br>0.16<br>0.20<br>0.09<br>0.09   | 261<br>262<br>263<br>264<br>265<br>266<br>267<br>268<br>269<br>270<br>271<br>272<br>273<br>274<br>275<br>276<br>277<br>278<br>279<br>280<br>281<br>282<br>283<br>284<br>285<br>286<br>287<br>288<br>289<br>290<br>291<br>292<br>293<br>294  | 6,148 6,948 4,940 4,940 4,940 4,940 4,940 4,940 4,940 4,940 4,940 4,940 4,940 4,940 4,940 4,940 4,940 4,940 4,962 4,902 5,512 5,436 4,940  | 0.14<br>0.16<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11   | 380<br>381<br>382<br>383<br>384<br>385<br>386<br>387<br>388<br>389<br>390<br>391<br>392<br>393<br>394<br>395<br>396<br>397<br>398<br>399<br>400<br>401<br>402<br>403<br>404<br>405<br>406<br>407<br>408<br>409<br>410<br>411<br>412   | 8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>9,925<br>9,493<br>9,630<br>10,678<br>9,630<br>10,678<br>9,630<br>9,630<br>9,630<br>9,925<br>8,966<br>8,450<br>9,925<br>8,966<br>8,450<br>9,244<br>9,547<br>9,108<br>9,108<br>9,253<br>9,279  |  |   |  |   |  |  |   |   |  |  |   |  |  |   |   |   |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |   |  |  |   |  |   |   |  |  |   |  |  |   |  |   |  |  |   |  |   |  |  |   |  |   |  |  |  |   |  |   |  |  |   |   |   |   |  |  |   |  |   |   |  |   |  |  |  |  |   |  |  |   |  |  |  |   |   |   |  |   |   |  |  |   |  |   |   |    |   |  |   |  |  |  |   |  |  |   |    |   |  |   |   |  |  |  |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |  |  |  |  |  |   |   |  |  |   |   |  |  |   |  |  |                                 |   |                              |                          |                         |  |  |  |  |   |                                      |                          |                                  |                              |                   |                |  |                                    |  |  |   |                      |            |                |      |     |  |    |                |  |                          |                         |      |  |       |  |  |       |   |       |                                      |            |                |  |  |         |      |     |                  |  |         |                      |     |  |      |            |                |      |            |                  |    |        |      |  |       |      |     |       |      |       |         |   |                  |  |            |                |      |            |                |      |  |  |   |                  |      |            |                |      |            |                |      |  |  |    |        |      |     |       |      |     |       |      |  |  |    |                 |      |            |                |      |            |                |      |  |  |  |                        |      |            |                |      |            |                |      |  |  |    |                  |      |            |                |      |            |                |      |  |  |    |       |      |     |       |      |     |       |      |  |  |    |                |      |            |                |      |            |                |      |  |  |    |                |      |            |                |      |            |                |      |  |  |    |                |      |            |       |      |            |                |      |  |  |  |       |      |     |                |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |       |      |     |       |      |     |       |      |  |  |                                      |                |      |            |                |      |            |                |      |  |  |                                      |                |      |            |                |      |            |                |      |  |  |                      |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |     |        |      |            |                |      |            |                 |      |  |  |  |                |      |            |                |      |            |                  |      |  |  |       |                |      |     |       |      |     |        |      |  |  |       |                                  |      |            |                |      |            |                |      |  |  |       |  |      |            |                |      |            |                |      |  |  |       |  |      |            |                |      |            |                |      |  |  |       |   |      |     |       |      |     |       |      |  |  |       |   |      |            |                |      |            |                  |      |  |  |       |   |                      |            |                |      |            |                |      |  |  |       |  |                              |  |       |      |     |       |      |  |  |     |  |  |     |                |      |            |        |      |  |  |                |   |                                      |                          |       |      |            |                  |      |  |  |
| 22         8           23         9           24         8           25         8           26         8           27         28           28         29           30         1           31         32           33         34           35         1           36         8           37         38           38         3           39         40           41         1           42         1           43         44           45         9           46         8           47         8           48         8           49         9           50         1           51         1           52         2           53         1           54         1           55         6           57         9           58         1           59         1           60         1           61         1           62         1 <tr< td=""><td>8,982<br/>9,331<br/>8,451<br/>8,450<br/>8,450<br/>8,450<br/>8,450<br/>8,450<br/>8,450<br/>8,450<br/>8,642<br/>11,828<br/>9,100<br/>9,100<br/>9,096<br/>10,580<br/>8,943<br/>9,254<br/>7,665<br/>7,800<br/>7,800<br/>10,124<br/>13,108<br/>9,880<br/>9,390<br/>9,420<br/>8,775<br/>8,775<br/>8,775<br/>8,775<br/>9,328<br/>15,232<br/>19,887<br/>20,775<br/>16,900<br/>18,245<br/>9,425<br/>9,425</td><td>0.21<br/>0.29<br/>0.19<br/>0.19<br/>0.19<br/>0.19<br/>0.20<br/>0.27<br/>0.21<br/>0.21<br/>0.21<br/>0.21<br/>0.21<br/>0.21<br/>0.21<br/>0.22<br/>0.22<br/>0.23<br/>0.20<br/>0.23<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.21<br/>0.21<br/>0.21<br/>0.21<br/>0.21<br/>0.21<br/>0.21<br/>0.21<br/>0.21<br/>0.21<br/>0.21<br/>0.21<br/>0.21<br/>0.21<br/>0.21<br/>0.21<br/>0.21<br/>0.21<br/>0.21<br/>0.21<br/>0.21<br/>0.21<br/>0.21<br/>0.21<br/>0.21<br/>0.21<br/>0.21<br/>0.21<br/>0.21<br/>0.21<br/>0.21<br/>0.21<br/>0.21<br/>0.21<br/>0.21<br/>0.21<br/>0.21<br/>0.21<br/>0.21<br/>0.21<br/>0.21<br/>0.21<br/>0.21<br/>0.21<br/>0.21<br/>0.21<br/>0.21<br/>0.21<br/>0.21<br/>0.23<br/>0.23<br/>0.23<br/>0.22<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.22<br/>0.22<br/>0.22<br/>0.22<br/>0.22<br/>0.22<br/>0.22<br/>0.22<br/>0.22<br/>0.22<br/>0.22<br/>0.22<br/>0.22<br/>0.22<br/>0.22<br/>0.22<br/>0.22<br/>0.22<br/>0.22<br/>0.22<br/>0.22<br/>0.22<br/>0.22<br/>0.22<br/>0.22<br/>0.22<br/>0.22<br/>0.22<br/>0.22<br/>0.22<br/>0.22<br/>0.22<br/>0.22<br/>0.22<br/>0.22<br/>0.22<br/>0.22<br/>0.22<br/>0.22<br/>0.22<br/>0.22<br/>0.22<br/>0.22<br/>0.22<br/>0.22</td><td>142<br/>143<br/>144<br/>145<br/>146<br/>147<br/>148<br/>149<br/>150<br/>151<br/>152<br/>153<br/>154<br/>155<br/>156<br/>157<br/>158<br/>159<br/>160<br/>161<br/>162<br/>163<br/>164<br/>165<br/>166<br/>167<br/>168<br/>169<br/>170<br/>171<br/>172<br/>173<br/>174<br/>175<br/>176</td><td>2,990<br/>4,095<br/>4,095<br/>2,990<br/>2,990<br/>2,990<br/>4,759<br/>4,672<br/>2,990<br/>2,990<br/>2,990<br/>2,990<br/>4,095<br/>4,095<br/>2,990<br/>2,990<br/>4,672<br/>6,413<br/>4,978<br/>4,988<br/>5,183<br/>5,453<br/>5,723<br/>5,993<br/>6,263<br/>6,533<br/>6,803<br/>8,927<br/>4,775<br/>2,113<br/>3,874<br/>2,113<br/>4,191<br/>5,146</td><td>0.07<br/>0.09<br/>0.09<br/>0.07<br/>0.07<br/>0.07<br/>0.07<br/>0.11<br/>0.11<br/>0.07<br/>0.07<br/>0.07<br/>0.07<br/>0.09<br/>0.09<br/>0.09<br/>0.11<br/>0.15<br/>0.11<br/>0.11<br/>0.15<br/>0.11<br/>0.12<br/>0.13<br/>0.13<br/>0.14<br/>0.14<br/>0.15<br/>0.16<br/>0.20<br/>0.09<br/>0.09<br/>0.09</td><td>262<br/>263<br/>264<br/>265<br/>266<br/>267<br/>268<br/>269<br/>270<br/>271<br/>272<br/>273<br/>274<br/>275<br/>276<br/>277<br/>278<br/>279<br/>280<br/>281<br/>282<br/>283<br/>284<br/>285<br/>286<br/>287<br/>288<br/>299<br/>290<br/>291<br/>292<br/>293<br/>294</td><td>6,948 4,940 4,940 4,940 4,940 4,940 4,940 4,940 4,940 4,940 4,940 4,940 5,582 6,706 4,902 4,902 4,902 4,902 4,902 4,902 4,902 4,902 4,902 4,902 4,902 4,902 4,902 5,512 5,436 4,940</td><td>0.16<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11</td><td>381<br/>382<br/>383<br/>384<br/>385<br/>386<br/>387<br/>388<br/>389<br/>390<br/>391<br/>392<br/>393<br/>394<br/>395<br/>396<br/>397<br/>398<br/>399<br/>400<br/>401<br/>402<br/>403<br/>404<br/>405<br/>406<br/>407<br/>408<br/>409<br/>410<br/>411<br/>412</td><td>8,450<br/>8,450<br/>8,450<br/>8,450<br/>8,450<br/>8,450<br/>8,450<br/>8,450<br/>9,925<br/>9,493<br/>8,319<br/>10,678<br/>9,630<br/>10,678<br/>8,319<br/>9,493<br/>9,925<br/>8,966<br/>8,450<br/>9,244<br/>9,547<br/>9,528<br/>9,108<br/>9,252<br/>9,252<br/>9,279</td></tr<>  | 8,982<br>9,331<br>8,451<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,642<br>11,828<br>9,100<br>9,100<br>9,096<br>10,580<br>8,943<br>9,254<br>7,665<br>7,800<br>7,800<br>10,124<br>13,108<br>9,880<br>9,390<br>9,420<br>8,775<br>8,775<br>8,775<br>8,775<br>9,328<br>15,232<br>19,887<br>20,775<br>16,900<br>18,245<br>9,425<br>9,425   | 0.21<br>0.29<br>0.19<br>0.19<br>0.19<br>0.19<br>0.20<br>0.27<br>0.21<br>0.21<br>0.21<br>0.21<br>0.21<br>0.21<br>0.21<br>0.22<br>0.22<br>0.23<br>0.20<br>0.23<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.21<br>0.21<br>0.21<br>0.21<br>0.21<br>0.21<br>0.21<br>0.21<br>0.21<br>0.21<br>0.21<br>0.21<br>0.21<br>0.21<br>0.21<br>0.21<br>0.21<br>0.21<br>0.21<br>0.21<br>0.21<br>0.21<br>0.21<br>0.21<br>0.21<br>0.21<br>0.21<br>0.21<br>0.21<br>0.21<br>0.21<br>0.21<br>0.21<br>0.21<br>0.21<br>0.21<br>0.21<br>0.21<br>0.21<br>0.21<br>0.21<br>0.21<br>0.21<br>0.21<br>0.21<br>0.21<br>0.21<br>0.21<br>0.21<br>0.23<br>0.23<br>0.23<br>0.22<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.22<br>0.22<br>0.22<br>0.22<br>0.22<br>0.22<br>0.22<br>0.22<br>0.22<br>0.22<br>0.22<br>0.22<br>0.22<br>0.22<br>0.22<br>0.22<br>0.22<br>0.22<br>0.22<br>0.22<br>0.22<br>0.22<br>0.22<br>0.22<br>0.22<br>0.22<br>0.22<br>0.22<br>0.22<br>0.22<br>0.22<br>0.22<br>0.22<br>0.22<br>0.22<br>0.22<br>0.22<br>0.22<br>0.22<br>0.22<br>0.22<br>0.22<br>0.22<br>0.22<br>0.22   | 142<br>143<br>144<br>145<br>146<br>147<br>148<br>149<br>150<br>151<br>152<br>153<br>154<br>155<br>156<br>157<br>158<br>159<br>160<br>161<br>162<br>163<br>164<br>165<br>166<br>167<br>168<br>169<br>170<br>171<br>172<br>173<br>174<br>175<br>176   | 2,990<br>4,095<br>4,095<br>2,990<br>2,990<br>2,990<br>4,759<br>4,672<br>2,990<br>2,990<br>2,990<br>2,990<br>4,095<br>4,095<br>2,990<br>2,990<br>4,672<br>6,413<br>4,978<br>4,988<br>5,183<br>5,453<br>5,723<br>5,993<br>6,263<br>6,533<br>6,803<br>8,927<br>4,775<br>2,113<br>3,874<br>2,113<br>4,191<br>5,146   | 0.07<br>0.09<br>0.09<br>0.07<br>0.07<br>0.07<br>0.07<br>0.11<br>0.11<br>0.07<br>0.07<br>0.07<br>0.07<br>0.09<br>0.09<br>0.09<br>0.11<br>0.15<br>0.11<br>0.11<br>0.15<br>0.11<br>0.12<br>0.13<br>0.13<br>0.14<br>0.14<br>0.15<br>0.16<br>0.20<br>0.09<br>0.09<br>0.09   | 262<br>263<br>264<br>265<br>266<br>267<br>268<br>269<br>270<br>271<br>272<br>273<br>274<br>275<br>276<br>277<br>278<br>279<br>280<br>281<br>282<br>283<br>284<br>285<br>286<br>287<br>288<br>299<br>290<br>291<br>292<br>293<br>294   | 6,948 4,940 4,940 4,940 4,940 4,940 4,940 4,940 4,940 4,940 4,940 4,940 5,582 6,706 4,902 4,902 4,902 4,902 4,902 4,902 4,902 4,902 4,902 4,902 4,902 4,902 4,902 5,512 5,436 4,940  | 0.16<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11   | 381<br>382<br>383<br>384<br>385<br>386<br>387<br>388<br>389<br>390<br>391<br>392<br>393<br>394<br>395<br>396<br>397<br>398<br>399<br>400<br>401<br>402<br>403<br>404<br>405<br>406<br>407<br>408<br>409<br>410<br>411<br>412  | 8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>9,925<br>9,493<br>8,319<br>10,678<br>9,630<br>10,678<br>8,319<br>9,493<br>9,925<br>8,966<br>8,450<br>9,244<br>9,547<br>9,528<br>9,108<br>9,252<br>9,252<br>9,279  |  |   |  |   |  |  |   |   |  |  |   |  |  |   |   |   |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |   |  |  |   |  |   |   |  |  |   |  |  |   |  |   |  |  |   |  |   |  |  |   |  |   |  |  |  |   |  |   |  |  |   |   |   |   |  |  |   |  |   |   |  |   |  |  |  |  |   |  |  |   |  |  |  |   |   |   |  |   |   |  |  |   |  |   |   |    |   |  |   |  |  |  |   |  |  |   |    |   |  |   |   |  |  |  |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |  |  |  |  |  |   |   |  |  |   |   |  |  |   |  |  |                                 |   |                              |                          |                         |  |  |  |  |   |                                      |                          |                                  |                              |                   |                |  |                                    |  |  |   |                      |            |                |      |     |  |    |                |  |                          |                         |      |  |       |  |  |       |   |       |                                      |            |                |  |  |         |      |     |                  |  |         |                      |     |  |      |            |                |      |            |                  |    |        |      |  |       |      |     |       |      |       |         |   |                  |  |            |                |      |            |                |      |  |  |   |                  |      |            |                |      |            |                |      |  |  |    |        |      |     |       |      |     |       |      |  |  |    |                 |      |            |                |      |            |                |      |  |  |  |                        |      |            |                |      |            |                |      |  |  |    |                  |      |            |                |      |            |                |      |  |  |    |       |      |     |       |      |     |       |      |  |  |    |                |      |            |                |      |            |                |      |  |  |    |                |      |            |                |      |            |                |      |  |  |    |                |      |            |       |      |            |                |      |  |  |  |       |      |     |                |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |       |      |     |       |      |     |       |      |  |  |                                      |                |      |            |                |      |            |                |      |  |  |                                      |                |      |            |                |      |            |                |      |  |  |                      |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |     |        |      |            |                |      |            |                 |      |  |  |  |                |      |            |                |      |            |                  |      |  |  |       |                |      |     |       |      |     |        |      |  |  |       |                                  |      |            |                |      |            |                |      |  |  |       |  |      |            |                |      |            |                |      |  |  |       |  |      |            |                |      |            |                |      |  |  |       |   |      |     |       |      |     |       |      |  |  |       |   |      |            |                |      |            |                  |      |  |  |       |   |                      |            |                |      |            |                |      |  |  |       |  |                              |  |       |      |     |       |      |  |  |     |  |  |     |                |      |            |        |      |  |  |                |   |                                      |                          |       |      |            |                  |      |  |  |
| 24         8           25         8           26         8           27         8           28         8           29         8           30         1           31         3           32         3           33         3           34         3           37         38           39         3           40         4           41         1           42         1           43         9           46         8           47         8           48         8           49         9           5         9           50         1           51         1           52         2           53         1           54         1           55         6           57         5           58         1           60         1           61         1           62         1           63         1           64         3   | 8,451<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,450<br>8,642<br>11,828<br>9,100<br>9,100<br>9,096<br>10,580<br>8,943<br>9,254<br>7,665<br>7,800<br>7,800<br>10,124<br>13,108<br>9,880<br>9,390<br>9,420<br>8,775<br>8,775<br>8,775<br>8,775<br>9,328<br>15,232<br>19,887<br>20,775<br>16,900<br>18,245<br>9,425<br>9,425  | 0.19 0.19 0.19 0.19 0.19 0.20 0.27 0.21 0.21 0.21 0.21 0.21 0.21 0.21 0.23 0.30 0.23 0.22 0.22 0.20 0.20 0.20  | 144<br>145<br>146<br>147<br>148<br>149<br>150<br>151<br>152<br>153<br>154<br>155<br>156<br>157<br>158<br>159<br>160<br>161<br>162<br>163<br>164<br>165<br>166<br>167<br>168<br>169<br>170<br>171<br>172<br>173<br>174<br>175<br>176<br>177  | 4,095 2,990 2,990 2,990 4,759 4,672 2,990 2,990 2,990 2,990 4,095 4,095 2,990 4,672 6,413 4,978 4,988 5,183 5,453 5,723 5,993 6,263 6,533 6,803 8,927 4,775 2,113 3,874 2,113 4,191 5,146  | 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                         |                         |  |  |  |  |   |                                      |                          |                                  |                              |                   |                |  |                                    |  |  |   |                      |            |                |      |     |  |    |                |  |                          |                         |      |  |       |  |  |       |   |       |                                      |            |                |  |  |         |      |     |                  |  |         |                      |     |  |      |            |                |      |            |                  |    |        |      |  |       |      |     |       |      |       |         |   |                  |  |            |                |      |            |                |      |  |  |   |                  |      |            |                |      |            |                |    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| 26         8           27         28           28         29           30         1           31         32           33         34           35         1           36         8           37         38           39         40           41         1           42         1           43         9           46         8           47         8           48         8           49         9           50         1           51         1           52         2           53         1           54         1           55         9           56         9           57         9           58         1           60         1           61         1           62         1           63         1           64         9           65         1           66         1           67         7           78         2 <tr <="" td=""><td>8,450<br/>8,450<br/>8,450<br/>8,642<br/>11,828<br/>9,100<br/>9,100<br/>9,100<br/>9,096<br/>10,580<br/>8,943<br/>9,254<br/>7,665<br/>7,800<br/>7,800<br/>10,124<br/>13,108<br/>9,390<br/>9,420<br/>8,775<br/>8,775<br/>8,775<br/>9,328<br/>15,232<br/>19,887<br/>20,775<br/>16,900<br/>18,245<br/>9,425<br/>9,425</td><td>0.19 0.19 0.20 0.27 0.21 0.21 0.21 0.21 0.21 0.21 0.21 0.21</td><td>146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177</td><td>2,990 2,990 4,759 4,672 2,990 2,990 2,990 2,990 4,095 4,095 4,095 4,095 2,990 4,672 6,413 4,978 4,988 5,183 5,453 5,723 5,993 6,263 6,533 6,803 8,927 4,775 2,113 3,874 2,113 4,191 5,146</td><td>0.07<br/>0.07<br/>0.07<br/>0.11<br/>0.11<br/>0.07<br/>0.07<br/>0.07<br/>0.07<br/>0.09<br/>0.09<br/>0.09<br/>0.01<br/>0.11<br/>0.12<br/>0.13<br/>0.13<br/>0.14<br/>0.14<br/>0.15<br/>0.16<br/>0.20<br/>0.11<br/>0.05<br/>0.09<br/>0.09</td><td>266<br/>267<br/>268<br/>269<br/>270<br/>271<br/>272<br/>273<br/>274<br/>275<br/>276<br/>277<br/>278<br/>279<br/>280<br/>281<br/>282<br/>283<br/>284<br/>285<br/>286<br/>287<br/>288<br/>290<br/>291<br/>292<br/>293<br/>294</td><td>4,940<br/>4,940<br/>4,940<br/>4,940<br/>4,940<br/>4,940<br/>4,940<br/>4,940<br/>4,940<br/>4,940<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>5,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504</td><td>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.13<br/>0.15<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11</td><td>385<br/>386<br/>387<br/>388<br/>389<br/>390<br/>391<br/>392<br/>393<br/>394<br/>395<br/>396<br/>397<br/>398<br/>399<br/>400<br/>401<br/>402<br/>403<br/>404<br/>405<br/>406<br/>407<br/>408<br/>409<br/>410<br/>411<br/>412</td><td>8,450<br/>8,450<br/>8,450<br/>8,450<br/>8,966<br/>9,925<br/>9,493<br/>10,678<br/>8,319<br/>9,630<br/>10,678<br/>8,319<br/>9,493<br/>9,493<br/>9,493<br/>9,925<br/>8,966<br/>8,450<br/>9,547<br/>9,528<br/>9,108<br/>9,252<br/>9,279</td></tr> <tr><td>28       8         29       3         30       1         31       3         32       3         33       34         35       1         36       8         37       38         39       4         40       2         41       1         42       1         43       3         44       4         45       46         48       8         49       3         50       1         51       1         52       2         53       1         54       1         55       3         57       3         58       1         59       1         61       1         62       1         63       1         64       3         65       1         66       1         67       3         77       2         73       2         74       2         75</td><td>8,450<br/>8,642<br/>11,828<br/>9,100<br/>9,100<br/>9,100<br/>9,096<br/>10,580<br/>8,943<br/>9,254<br/>7,665<br/>7,800<br/>7,800<br/>10,124<br/>13,108<br/>9,390<br/>9,420<br/>8,775<br/>8,775<br/>8,775<br/>9,328<br/>15,232<br/>19,887<br/>20,775<br/>16,900<br/>18,245<br/>9,425<br/>9,425</td><td>0.19 0.20 0.27 0.21 0.21 0.21 0.21 0.21 0.21 0.21 0.21</td><td>148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177</td><td>2,990<br/>4,759<br/>4,672<br/>2,990<br/>2,990<br/>2,990<br/>2,990<br/>4,095<br/>4,095<br/>2,990<br/>4,672<br/>6,413<br/>4,978<br/>4,988<br/>5,183<br/>5,723<br/>5,723<br/>5,993<br/>6,263<br/>6,533<br/>6,803<br/>8,927<br/>4,775<br/>2,113<br/>3,874<br/>2,113<br/>4,191<br/>5,146</td><td>0.07<br/>0.11<br/>0.11<br/>0.07<br/>0.07<br/>0.07<br/>0.07<br/>0.09<br/>0.09<br/>0.07<br/>0.11<br/>0.15<br/>0.11<br/>0.12<br/>0.13<br/>0.13<br/>0.14<br/>0.14<br/>0.15<br/>0.16<br/>0.20<br/>0.09<br/>0.09</td><td>268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294</td><td>4,940<br/>4,940<br/>4,940<br/>4,940<br/>4,940<br/>4,940<br/>4,940<br/>5,582<br/>6,706<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>5,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504</td><td>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.15<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.13<br/>0.23<br/>0.21<br/>0.16<br/>0.13<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11</td><td>387<br/>388<br/>389<br/>390<br/>391<br/>392<br/>393<br/>394<br/>395<br/>396<br/>397<br/>398<br/>399<br/>400<br/>401<br/>402<br/>403<br/>404<br/>405<br/>406<br/>407<br/>408<br/>409<br/>410<br/>411<br/>412</td><td>8,450<br/>8,450<br/>8,966<br/>9,925<br/>9,493<br/>8,319<br/>10,678<br/>9,630<br/>10,678<br/>8,319<br/>9,493<br/>9,925<br/>8,966<br/>8,450<br/>9,244<br/>9,547<br/>9,528<br/>9,688<br/>8,450<br/>9,108<br/>9,252<br/>9,252<br/>9,279</td></tr> <tr><td>29         8           30         1           31         3           32         3           33         3           34         3           35         1           36         8           37         3           38         3           39         4           40         7           41         1           42         1           43         3           46         8           47         8           48         8           49         9           50         1           51         1           52         2           53         1           54         1           55         5           56         5           57         5           58         1           59         1           60         1           61         1           62         1           63         1           64         3      <trr>         65         1</trr></td><td>8,642<br/>11,828<br/>9,100<br/>9,100<br/>9,100<br/>9,096<br/>10,580<br/>8,943<br/>9,254<br/>7,665<br/>7,800<br/>7,800<br/>10,124<br/>13,108<br/>9,390<br/>9,420<br/>8,775<br/>8,775<br/>8,775<br/>9,328<br/>15,232<br/>19,887<br/>20,775<br/>16,900<br/>18,245<br/>9,425<br/>9,425</td><td>0.20 0.27 0.21 0.21 0.21 0.21 0.24 0.21 0.28 0.18 0.18 0.18 0.23 0.20 0.20 0.20 0.20 0.20 0.20 0.20</td><td>149<br/>150<br/>151<br/>152<br/>153<br/>154<br/>155<br/>156<br/>157<br/>158<br/>159<br/>160<br/>161<br/>162<br/>163<br/>164<br/>165<br/>166<br/>167<br/>168<br/>169<br/>170<br/>171<br/>172<br/>173<br/>174<br/>175<br/>176<br/>177</td><td>4,759 4,672 2,990 2,990 2,990 2,990 4,095 4,095 2,990 4,672 6,413 4,978 4,988 5,183 5,453 5,723 5,993 6,263 6,533 6,803 8,927 4,775 2,113 3,874 2,113 4,191 5,146</td><td>0.11<br/>0.07<br/>0.07<br/>0.07<br/>0.07<br/>0.09<br/>0.09<br/>0.09<br/>0.07<br/>0.11<br/>0.15<br/>0.11<br/>0.11<br/>0.12<br/>0.13<br/>0.13<br/>0.14<br/>0.14<br/>0.15<br/>0.16<br/>0.20<br/>0.07</td><td>269<br/>270<br/>271<br/>272<br/>273<br/>274<br/>275<br/>276<br/>277<br/>278<br/>279<br/>280<br/>281<br/>282<br/>283<br/>284<br/>285<br/>286<br/>287<br/>288<br/>289<br/>290<br/>291<br/>292<br/>293<br/>294</td><td>4,940<br/>4,940<br/>4,940<br/>4,940<br/>4,940<br/>5,582<br/>6,706<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>6,804<br/>10,089<br/>9,137<br/>7,180<br/>5,778<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>5,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504<br/>6,504</td><td>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.13<br/>0.15<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.16<br/>0.23<br/>0.21<br/>0.16<br/>0.13<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11</td><td>388<br/>389<br/>390<br/>391<br/>392<br/>393<br/>394<br/>395<br/>396<br/>397<br/>398<br/>399<br/>400<br/>401<br/>402<br/>403<br/>404<br/>405<br/>406<br/>407<br/>408<br/>409<br/>410<br/>411<br/>412</td><td>8,450<br/>8,966<br/>9,925<br/>9,493<br/>8,319<br/>10,678<br/>9,630<br/>10,678<br/>8,319<br/>9,493<br/>9,493<br/>9,925<br/>8,966<br/>8,450<br/>9,244<br/>9,547<br/>9,528<br/>9,688<br/>8,450<br/>9,108<br/>9,252<br/>9,279</td></tr> <tr><td>31         9           32         33           34         9           35         1           36         8           37         38           39         7           40         4           41         1           42         1           43         9           46         8           47         8           48         8           49         9           50         1           51         1           52         2           53         1           54         1           55         6           57         9           58         1           59         1           61         1           62         1           63         1           64         9           57         9           58         1           70         5           77         2           78         2           70         5           77         2</td><td>9,100<br/>9,100<br/>9,100<br/>9,096<br/>10,580<br/>8,943<br/>9,254<br/>7,665<br/>7,800<br/>10,124<br/>13,108<br/>9,880<br/>9,390<br/>9,420<br/>8,775<br/>8,775<br/>8,775<br/>8,775<br/>9,328<br/>15,232<br/>19,887<br/>20,775<br/>16,900<br/>18,245<br/>9,425<br/>9,425</td><td>0.21<br/>0.21<br/>0.21<br/>0.21<br/>0.21<br/>0.24<br/>0.21<br/>0.21<br/>0.18<br/>0.18<br/>0.18<br/>0.23<br/>0.23<br/>0.22<br/>0.22<br/>0.20<br/>0.20<br/>0.20<br/>0.21<br/>0.35<br/>0.46<br/>0.48<br/>0.39<br/>0.42<br/>0.22<br/>0.22<br/>0.22<br/>0.20</td><td>151<br/>152<br/>153<br/>154<br/>155<br/>156<br/>157<br/>158<br/>159<br/>160<br/>161<br/>162<br/>163<br/>164<br/>165<br/>166<br/>167<br/>168<br/>169<br/>170<br/>171<br/>172<br/>173<br/>174<br/>175<br/>176<br/>177</td><td>2,990 2,990 2,990 4,095 4,095 2,990 4,672 6,413 4,978 4,988 5,183 5,453 5,723 5,993 6,263 6,533 6,803 8,927 4,775 2,113 3,874 2,113 4,191 5,146</td><td>0.07<br/>0.07<br/>0.07<br/>0.09<br/>0.09<br/>0.09<br/>0.07<br/>0.11<br/>0.15<br/>0.11<br/>0.12<br/>0.13<br/>0.14<br/>0.14<br/>0.15<br/>0.16<br/>0.20<br/>0.11<br/>0.05<br/>0.09</td><td>271<br/>272<br/>273<br/>274<br/>275<br/>276<br/>277<br/>278<br/>279<br/>280<br/>281<br/>282<br/>283<br/>284<br/>285<br/>286<br/>287<br/>288<br/>289<br/>290<br/>291<br/>292<br/>293<br/>294</td><td>4,940<br/>4,940<br/>4,940<br/>5,582<br/>6,706<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>6,804<br/>10,089<br/>9,137<br/>7,180<br/>5,778<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902</td><td>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.13<br/>0.15<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.16<br/>0.23<br/>0.21<br/>0.16<br/>0.13<br/>0.11<br/>0.11<br/>0.11<br/>0.11</td><td>390<br/>391<br/>392<br/>393<br/>394<br/>395<br/>396<br/>397<br/>398<br/>399<br/>400<br/>401<br/>402<br/>403<br/>404<br/>405<br/>406<br/>407<br/>408<br/>409<br/>410<br/>411<br/>412</td><td>9,925<br/>9,493<br/>8,319<br/>10,678<br/>9,630<br/>10,678<br/>8,319<br/>9,493<br/>9,925<br/>8,966<br/>8,450<br/>9,244<br/>9,547<br/>9,528<br/>9,688<br/>8,450<br/>9,108<br/>9,253<br/>9,252<br/>9,279</td></tr> <tr><td>33       9         34       9         35       1         36       8         37       38         39       40         41       1         42       1         43       9         45       46         47       8         48       8         49       9         50       1         51       1         52       2         53       1         54       1         55       9         56       9         57       9         58       1         60       1         61       1         62       1         63       1         64       9         65       1         66       1         67       9         68       1         70       5         77       2         78       5         79       2         80       2         77       2         78</td><td>9,100<br/>9,096<br/>10,580<br/>8,943<br/>9,254<br/>7,665<br/>7,800<br/>7,800<br/>10,124<br/>13,108<br/>9,880<br/>9,390<br/>9,420<br/>8,775<br/>8,775<br/>8,775<br/>9,328<br/>15,232<br/>19,887<br/>20,775<br/>16,900<br/>18,245<br/>9,425</td><td>0.21<br/>0.24<br/>0.21<br/>0.24<br/>0.21<br/>0.18<br/>0.18<br/>0.18<br/>0.23<br/>0.23<br/>0.23<br/>0.22<br/>0.22<br/>0.20<br/>0.20<br/>0.20<br/>0.21<br/>0.35<br/>0.46<br/>0.48<br/>0.39<br/>0.42<br/>0.22<br/>0.22<br/>0.22<br/>0.20</td><td>153<br/>154<br/>155<br/>156<br/>157<br/>158<br/>159<br/>160<br/>161<br/>162<br/>163<br/>164<br/>165<br/>166<br/>167<br/>168<br/>169<br/>170<br/>171<br/>172<br/>173<br/>174<br/>175<br/>176<br/>177</td><td>2,990 2,990 4,095 4,095 2,990 2,990 4,672 6,413 4,978 4,988 5,183 5,453 5,723 5,993 6,263 6,533 6,803 8,927 4,775 2,113 3,874 3,874 2,113 4,191 5,146</td><td>0.07<br/>0.09<br/>0.09<br/>0.07<br/>0.07<br/>0.11<br/>0.15<br/>0.11<br/>0.12<br/>0.13<br/>0.13<br/>0.14<br/>0.14<br/>0.15<br/>0.16<br/>0.20<br/>0.11<br/>0.05<br/>0.09</td><td>273<br/>274<br/>275<br/>276<br/>277<br/>278<br/>279<br/>280<br/>281<br/>282<br/>283<br/>284<br/>285<br/>286<br/>287<br/>288<br/>289<br/>290<br/>291<br/>292<br/>293<br/>294</td><td>4,940<br/>4,940<br/>5,582<br/>6,706<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>6,804<br/>10,089<br/>9,137<br/>7,180<br/>5,778<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>5,512<br/>5,436<br/>4,940</td><td>0.11<br/>0.13<br/>0.15<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.16<br/>0.23<br/>0.21<br/>0.16<br/>0.13<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11</td><td>392<br/>393<br/>394<br/>395<br/>396<br/>397<br/>398<br/>399<br/>400<br/>401<br/>402<br/>403<br/>404<br/>405<br/>406<br/>407<br/>408<br/>409<br/>410<br/>411</td><td>8,319 10,678 9,630 9,630 10,678 8,319 9,493 9,925 8,966 8,450 9,244 9,547 9,528 9,688 8,450 9,108 9,253 9,252 9,279</td></tr> <tr><td>34       3         35       1         36       8         37       38         39       40         41       1         42       1         43       9         45       46         47       8         49       9         50       1         51       1         52       2         53       1         54       1         55       9         56       9         57       9         58       1         60       1         61       1         62       1         63       1         64       9         65       1         66       1         67       9         68       1         69       1         70       5         77       2         78       5         80       2         81       2         82       3         83       2         84</td><td>9,096<br/>10,580<br/>8,943<br/>9,254<br/>7,665<br/>7,800<br/>7,800<br/>10,124<br/>13,108<br/>9,880<br/>9,390<br/>9,420<br/>8,775<br/>8,775<br/>9,328<br/>15,232<br/>19,887<br/>20,775<br/>16,900<br/>18,245<br/>9,425</td><td>0.21<br/>0.24<br/>0.21<br/>0.18<br/>0.18<br/>0.18<br/>0.23<br/>0.30<br/>0.23<br/>0.22<br/>0.22<br/>0.20<br/>0.20<br/>0.20<br/>0.21<br/>0.35<br/>0.46<br/>0.48<br/>0.39<br/>0.42<br/>0.22<br/>0.22<br/>0.22<br/>0.20</td><td>154<br/>155<br/>156<br/>157<br/>158<br/>159<br/>160<br/>161<br/>162<br/>163<br/>164<br/>165<br/>166<br/>167<br/>168<br/>169<br/>170<br/>171<br/>172<br/>173<br/>174<br/>175<br/>176<br/>177</td><td>2,990<br/>4,095<br/>4,095<br/>2,990<br/>2,990<br/>4,672<br/>6,413<br/>4,978<br/>4,988<br/>5,183<br/>5,453<br/>5,723<br/>5,993<br/>6,263<br/>6,533<br/>6,803<br/>8,927<br/>4,775<br/>2,113<br/>3,874<br/>2,113<br/>4,191<br/>5,146</td><td>0.07<br/>0.09<br/>0.09<br/>0.07<br/>0.11<br/>0.15<br/>0.11<br/>0.12<br/>0.13<br/>0.13<br/>0.14<br/>0.14<br/>0.15<br/>0.16<br/>0.20<br/>0.11<br/>0.05<br/>0.09<br/>0.09</td><td>274<br/>275<br/>276<br/>277<br/>278<br/>279<br/>280<br/>281<br/>282<br/>283<br/>284<br/>285<br/>286<br/>287<br/>288<br/>289<br/>290<br/>291<br/>292<br/>293<br/>294</td><td>4,940<br/>5,582<br/>6,706<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>6,804<br/>10,089<br/>9,137<br/>7,180<br/>5,778<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>5,512<br/>5,436<br/>4,940</td><td>0.11<br/>0.13<br/>0.15<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.16<br/>0.23<br/>0.21<br/>0.16<br/>0.13<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11</td><td>393<br/>394<br/>395<br/>396<br/>397<br/>398<br/>399<br/>400<br/>401<br/>402<br/>403<br/>404<br/>405<br/>406<br/>407<br/>408<br/>409<br/>410<br/>411</td><td>10,678<br/>9,630<br/>9,630<br/>10,678<br/>8,319<br/>9,493<br/>9,925<br/>8,966<br/>8,450<br/>9,244<br/>9,547<br/>9,528<br/>9,688<br/>8,450<br/>9,108<br/>9,253<br/>9,252<br/>9,279</td></tr> <tr><td>36       8         37       38         39       3         40       3         41       1         42       1         43       9         46       8         47       8         48       8         49       9         50       1         51       1         52       2         53       1         54       1         55       9         56       9         57       9         58       1         60       1         61       1         62       1         63       1         64       9         65       1         66       1         67       9         68       1         69       1         70       5         77       2         78       2         79       2         80       2         81       2         82       3         84       <t< td=""><td>8,943<br/>9,254<br/>7,665<br/>7,800<br/>7,800<br/>10,124<br/>13,108<br/>9,880<br/>9,390<br/>9,420<br/>8,775<br/>8,775<br/>8,775<br/>9,328<br/>15,232<br/>19,887<br/>20,775<br/>16,900<br/>18,245<br/>9,425<br/>9,425</td><td>0.21<br/>0.21<br/>0.18<br/>0.18<br/>0.23<br/>0.30<br/>0.23<br/>0.22<br/>0.22<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20</td><td>156<br/>157<br/>158<br/>159<br/>160<br/>161<br/>162<br/>163<br/>164<br/>165<br/>166<br/>167<br/>168<br/>169<br/>170<br/>171<br/>172<br/>173<br/>174<br/>175<br/>176<br/>177</td><td>4,095<br/>2,990<br/>2,990<br/>4,672<br/>6,413<br/>4,978<br/>4,988<br/>5,183<br/>5,453<br/>5,723<br/>5,993<br/>6,263<br/>6,533<br/>6,803<br/>8,927<br/>4,775<br/>2,113<br/>3,874<br/>2,113<br/>4,191<br/>5,146</td><td>0.09<br/>0.07<br/>0.07<br/>0.11<br/>0.15<br/>0.11<br/>0.12<br/>0.13<br/>0.13<br/>0.14<br/>0.15<br/>0.16<br/>0.20<br/>0.11<br/>0.05<br/>0.09<br/>0.09</td><td>276<br/>277<br/>278<br/>279<br/>280<br/>281<br/>282<br/>283<br/>284<br/>285<br/>286<br/>287<br/>288<br/>289<br/>290<br/>291<br/>292<br/>293<br/>294</td><td>6,706<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>6,804<br/>10,089<br/>9,137<br/>7,180<br/>5,778<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>5,512<br/>5,436<br/>4,940</td><td>0.15<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.16<br/>0.23<br/>0.21<br/>0.16<br/>0.13<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11</td><td>395<br/>396<br/>397<br/>398<br/>399<br/>400<br/>401<br/>402<br/>403<br/>404<br/>405<br/>406<br/>407<br/>408<br/>409<br/>410<br/>411</td><td>9,630<br/>10,678<br/>8,319<br/>9,493<br/>9,925<br/>8,966<br/>8,450<br/>9,244<br/>9,547<br/>9,528<br/>9,688<br/>8,450<br/>9,108<br/>9,253<br/>9,253<br/>9,279</td></t<></td></tr> <tr><td>38       3         39       40         41       1         42       1         43       44         45       9         46       8         47       8         48       8         49       9         50       1         51       1         52       2         53       1         54       1         55       5         57       9         58       1         59       1         60       1         61       1         62       1         63       1         64       9         65       1         66       1         67       9         68       1         70       5         77       2         74       2         75       2         76       5         77       2         78       5         80       2         81       2         82       &lt;</td><td>7,665<br/>7,800<br/>7,800<br/>10,124<br/>13,108<br/>9,880<br/>9,390<br/>9,420<br/>8,775<br/>8,775<br/>8,775<br/>9,328<br/>15,232<br/>19,887<br/>20,775<br/>16,900<br/>18,245<br/>9,425</td><td>0.18<br/>0.18<br/>0.23<br/>0.30<br/>0.22<br/>0.22<br/>0.20<br/>0.20<br/>0.20<br/>0.21<br/>0.35<br/>0.46<br/>0.48<br/>0.39<br/>0.42<br/>0.22<br/>0.22<br/>0.22</td><td>158<br/>159<br/>160<br/>161<br/>162<br/>163<br/>164<br/>165<br/>166<br/>167<br/>168<br/>169<br/>170<br/>171<br/>172<br/>173<br/>174<br/>175<br/>176<br/>177</td><td>2,990<br/>4,672<br/>6,413<br/>4,978<br/>4,988<br/>5,183<br/>5,453<br/>5,723<br/>5,993<br/>6,263<br/>6,533<br/>6,803<br/>8,927<br/>4,775<br/>2,113<br/>3,874<br/>2,113<br/>4,191<br/>5,146</td><td>0.07<br/>0.11<br/>0.15<br/>0.11<br/>0.11<br/>0.12<br/>0.13<br/>0.13<br/>0.14<br/>0.14<br/>0.15<br/>0.16<br/>0.20<br/>0.11<br/>0.05<br/>0.09<br/>0.09</td><td>278<br/>279<br/>280<br/>281<br/>282<br/>283<br/>284<br/>285<br/>286<br/>287<br/>288<br/>289<br/>290<br/>291<br/>292<br/>293<br/>294</td><td>4,902<br/>4,902<br/>4,902<br/>4,902<br/>6,804<br/>10,089<br/>9,137<br/>7,180<br/>5,778<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>5,512<br/>5,436<br/>4,940</td><td>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.16<br/>0.23<br/>0.21<br/>0.16<br/>0.13<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11</td><td>397<br/>398<br/>399<br/>400<br/>401<br/>402<br/>403<br/>404<br/>405<br/>406<br/>407<br/>408<br/>409<br/>410<br/>411</td><td>8,319<br/>9,493<br/>9,925<br/>8,966<br/>8,450<br/>9,244<br/>9,547<br/>9,528<br/>9,688<br/>8,450<br/>9,108<br/>9,253<br/>9,252<br/>9,279</td></tr> <tr><td>39         7           40         7           41         1           42         1           43         9           44         9           45         8           48         8           49         9           50         1           51         1           52         2           53         1           54         1           55         9           56         9           57         9           58         1           60         1           61         1           62         1           63         1           64         9           65         1           66         1           67         9           68         1           70         5           71         5           72         2           73         2           74         2           75         6           77         4      <trr>         78         5</trr></td><td>7,800<br/>7,800<br/>10,124<br/>13,108<br/>9,880<br/>9,390<br/>9,420<br/>8,775<br/>8,775<br/>8,775<br/>9,328<br/>15,232<br/>19,887<br/>20,775<br/>16,900<br/>18,245<br/>9,425</td><td>0.18<br/>0.23<br/>0.30<br/>0.23<br/>0.22<br/>0.22<br/>0.20<br/>0.20<br/>0.20<br/>0.21<br/>0.35<br/>0.46<br/>0.48<br/>0.39<br/>0.42<br/>0.22<br/>0.22<br/>0.22<br/>0.22</td><td>159<br/>160<br/>161<br/>162<br/>163<br/>164<br/>165<br/>166<br/>167<br/>168<br/>169<br/>170<br/>171<br/>172<br/>173<br/>174<br/>175<br/>176<br/>177</td><td>4,672<br/>6,413<br/>4,978<br/>4,988<br/>5,183<br/>5,453<br/>5,723<br/>5,993<br/>6,263<br/>6,533<br/>6,803<br/>8,927<br/>4,775<br/>2,113<br/>3,874<br/>2,113<br/>4,191<br/>5,146</td><td>0.11<br/>0.15<br/>0.11<br/>0.11<br/>0.12<br/>0.13<br/>0.14<br/>0.14<br/>0.15<br/>0.16<br/>0.20<br/>0.11<br/>0.05<br/>0.09<br/>0.09</td><td>279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294</td><td>4,902<br/>4,902<br/>4,902<br/>6,804<br/>10,089<br/>9,137<br/>7,180<br/>5,778<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>5,512<br/>5,436<br/>4,940</td><td>0.11<br/>0.11<br/>0.11<br/>0.16<br/>0.23<br/>0.21<br/>0.16<br/>0.13<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.13<br/>0.12<br/>0.11</td><td>398<br/>399<br/>400<br/>401<br/>402<br/>403<br/>404<br/>405<br/>406<br/>407<br/>408<br/>409<br/>410<br/>411</td><td>9,493<br/>9,925<br/>8,966<br/>8,450<br/>9,244<br/>9,547<br/>9,528<br/>9,688<br/>8,450<br/>9,108<br/>9,253<br/>9,252<br/>9,279</td></tr> <tr><td>41       1         42       1         43       3         44       3         45       46         47       8         48       8         49       9         50       1         51       1         52       2         53       1         54       1         55       56         57       3         58       1         59       1         60       1         61       1         62       1         63       1         64       3         65    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5,146</td><td>0.11<br/>0.12<br/>0.13<br/>0.13<br/>0.14<br/>0.14<br/>0.15<br/>0.16<br/>0.20<br/>0.11<br/>0.05<br/>0.09<br/>0.09</td><td>281<br/>282<br/>283<br/>284<br/>285<br/>286<br/>287<br/>288<br/>289<br/>290<br/>291<br/>292<br/>293<br/>294</td><td>4,902<br/>6,804<br/>10,089<br/>9,137<br/>7,180<br/>5,778<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>5,512<br/>5,436<br/>4,940</td><td>0.11<br/>0.16<br/>0.23<br/>0.21<br/>0.16<br/>0.13<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.13<br/>0.12<br/>0.11</td><td>400<br/>401<br/>402<br/>403<br/>404<br/>405<br/>406<br/>407<br/>408<br/>409<br/>410<br/>411<br/>412</td><td>8,966<br/>8,450<br/>9,244<br/>9,547<br/>9,528<br/>9,688<br/>8,450<br/>9,108<br/>9,253<br/>9,253<br/>9,279</td></tr> <tr><td>43</td><td>9,880<br/>9,390<br/>9,420<br/>8,775<br/>8,775<br/>8,775<br/>9,328<br/>15,232<br/>19,887<br/>20,775<br/>16,900<br/>18,245<br/>9,425<br/>9,425</td><td>0.23<br/>0.22<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.21<br/>0.35<br/>0.46<br/>0.48<br/>0.39<br/>0.42<br/>0.22<br/>0.22<br/>0.22<br/>0.22</td><td>163<br/>164<br/>165<br/>166<br/>167<br/>168<br/>169<br/>170<br/>171<br/>172<br/>173<br/>174<br/>175<br/>176<br/>177</td><td>5,183<br/>5,453<br/>5,723<br/>5,993<br/>6,263<br/>6,533<br/>6,803<br/>8,927<br/>4,775<br/>2,113<br/>3,874<br/>2,113<br/>4,191<br/>5,146</td><td>0.12<br/>0.13<br/>0.13<br/>0.14<br/>0.15<br/>0.16<br/>0.20<br/>0.11<br/>0.05<br/>0.09<br/>0.09</td><td>283<br/>284<br/>285<br/>286<br/>287<br/>288<br/>289<br/>290<br/>291<br/>292<br/>293<br/>294</td><td>10,089<br/>9,137<br/>7,180<br/>5,778<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>5,512<br/>5,436<br/>4,940</td><td>0.23<br/>0.21<br/>0.16<br/>0.13<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.13<br/>0.12<br/>0.11</td><td>402<br/>403<br/>404<br/>405<br/>406<br/>407<br/>408<br/>409<br/>410<br/>411</td><td>9,244<br/>9,547<br/>9,528<br/>9,688<br/>8,450<br/>9,108<br/>9,253<br/>9,253<br/>9,279</td></tr> <tr><td>45</td><td>9,420<br/>8,775<br/>8,775<br/>9,328<br/>15,232<br/>19,887<br/>20,775<br/>16,900<br/>18,245<br/>9,425</td><td>0.22<br/>0.20<br/>0.20<br/>0.20<br/>0.21<br/>0.35<br/>0.46<br/>0.48<br/>0.39<br/>0.42<br/>0.22<br/>0.22<br/>0.22<br/>0.22<br/>0.23<br/>0.26</td><td>165<br/>166<br/>167<br/>168<br/>169<br/>170<br/>171<br/>172<br/>173<br/>174<br/>175<br/>176<br/>177</td><td>5,723<br/>5,993<br/>6,263<br/>6,533<br/>6,803<br/>8,927<br/>4,775<br/>2,113<br/>3,874<br/>3,874<br/>2,113<br/>4,191<br/>5,146</td><td>0.13<br/>0.14<br/>0.14<br/>0.15<br/>0.16<br/>0.20<br/>0.11<br/>0.05<br/>0.09<br/>0.09</td><td>285<br/>286<br/>287<br/>288<br/>289<br/>290<br/>291<br/>292<br/>293<br/>294</td><td>7,180<br/>5,778<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>5,512<br/>5,436<br/>4,940</td><td>0.16<br/>0.13<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.13<br/>0.12<br/>0.11</td><td>404<br/>405<br/>406<br/>407<br/>408<br/>409<br/>410<br/>411</td><td>9,528<br/>9,688<br/>8,450<br/>8,450<br/>9,108<br/>9,253<br/>9,252<br/>9,279</td></tr> <tr><td>46       8         47       8         48       8         49       9         50       1         51       1         52       2         53       1         54       1         55       6         57       9         58       1         59       1         60       1         61       1         62       1         63       1         64       9         65       1         66       1         67       9         68       1         70       5         71       5         72       2         73       2         74       2         75       2         76       5         77       2         80       2         81       2         82       3         84       2         85       5         86       8         87       6         88       <td< td=""><td>8,775<br/>8,775<br/>9,328<br/>15,232<br/>19,887<br/>20,775<br/>16,900<br/>18,245<br/>9,425<br/>9,425</td><td>0.20<br/>0.20<br/>0.20<br/>0.21<br/>0.35<br/>0.46<br/>0.48<br/>0.39<br/>0.42<br/>0.22<br/>0.22<br/>0.22<br/>0.22<br/>0.23<br/>0.26</td><td>166<br/>167<br/>168<br/>169<br/>170<br/>171<br/>172<br/>173<br/>174<br/>175<br/>176<br/>177</td><td>5,993<br/>6,263<br/>6,533<br/>6,803<br/>8,927<br/>4,775<br/>2,113<br/>3,874<br/>3,874<br/>2,113<br/>4,191<br/>5,146</td><td>0.14<br/>0.15<br/>0.16<br/>0.20<br/>0.11<br/>0.05<br/>0.09<br/>0.09</td><td>286<br/>287<br/>288<br/>289<br/>290<br/>291<br/>292<br/>293<br/>294</td><td>5,778<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>5,512<br/>5,436<br/>4,940</td><td>0.13<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.13<br/>0.12<br/>0.11</td><td>405<br/>406<br/>407<br/>408<br/>409<br/>410<br/>411<br/>412</td><td>9,688<br/>8,450<br/>9,108<br/>9,253<br/>9,252<br/>9,279</td></td<></td></tr> <tr><td>48       8         49       9         50       1         51       1         52       2         53       1         54       1         55       9         56       9         57       9         58       1         60       1         61       1         62       1         63       1         64       9         65       1         66       1         70       9         68       1         70       9         71       9         72       2         73       7         74       2         75       7         78       9         80       2         81       2         83       2         84       2         85       5         86       8         87       6         88       6         89       5         90       5         91       <td< td=""><td>8,775<br/>9,328<br/>15,232<br/>19,887<br/>20,775<br/>16,900<br/>18,245<br/>9,425<br/>9,425</td><td>0.20<br/>0.21<br/>0.35<br/>0.46<br/>0.48<br/>0.39<br/>0.42<br/>0.22<br/>0.22<br/>0.22<br/>0.22<br/>0.29<br/>0.23<br/>0.26</td><td>168<br/>169<br/>170<br/>171<br/>172<br/>173<br/>174<br/>175<br/>176<br/>177</td><td>6,533<br/>6,803<br/>8,927<br/>4,775<br/>2,113<br/>3,874<br/>3,874<br/>2,113<br/>4,191<br/>5,146</td><td>0.15<br/>0.16<br/>0.20<br/>0.11<br/>0.05<br/>0.09<br/>0.09</td><td>288<br/>289<br/>290<br/>291<br/>292<br/>293<br/>294</td><td>4,902<br/>4,902<br/>4,902<br/>4,902<br/>5,512<br/>5,436<br/>4,940</td><td>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.13<br/>0.12<br/>0.11</td><td>407<br/>408<br/>409<br/>410<br/>411<br/>412</td><td>8,450<br/>9,108<br/>9,253<br/>9,252<br/>9,279</td></td<></td></tr> <tr><td>50         1           51         1           52         2           53         1           54         1           55         5           56         5           57         5           58         1           59         1           60         1           61         1           62         1           63         1           64         3           65         1           66         1           70         5           71         5           72         2           73         2           74         2           75         2           76         5           77         2           78         5           79         2           80         2           81         2           82         2           83         2           84         2           87         6           88         6      88          89         5     <td>15,232<br/>19,887<br/>20,775<br/>16,900<br/>18,245<br/>9,425<br/>9,425</td><td>0.35<br/>0.46<br/>0.48<br/>0.39<br/>0.42<br/>0.22<br/>0.22<br/>0.22<br/>0.29<br/>0.23<br/>0.26</td><td>170<br/>171<br/>172<br/>173<br/>174<br/>175<br/>176<br/>177<br/>178</td><td>8,927<br/>4,775<br/>2,113<br/>3,874<br/>3,874<br/>2,113<br/>4,191<br/>5,146</td><td>0.20<br/>0.11<br/>0.05<br/>0.09<br/>0.09<br/>0.05</td><td>290<br/>291<br/>292<br/>293<br/>294</td><td>4,902<br/>4,902<br/>5,512<br/>5,436<br/>4,940</td><td>0.11<br/>0.13<br/>0.12<br/>0.11</td><td>409<br/>410<br/>411<br/>412</td><td>9,253<br/>9,252<br/>9,279</td></td></tr> <tr><td>51         1           52         2           53         1           54         1           55         9           56         9           57         9           58         1           60         1           61         1           62         1           63         1           64         9           65         1           66         1           67         9           71    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  54       1         55       5         56       5         57       5         58       1         59       1         60       1         61       1         62       1         63       1         64       5         65       1         66       1         67       5         71       5         72       2         73       2         74       2         75       2         76       5         77       2         80       2         81       2         83       2         84       2         83       6         87       6         88       6         87       6         89       5         90       5         91       5</td><td>16,900<br/>18,245<br/>9,425<br/>9,425</td><td>0.39<br/>0.42<br/>0.22<br/>0.22<br/>0.22<br/>0.29<br/>0.23<br/>0.26</td><td>173<br/>174<br/>175<br/>176<br/>177<br/>178</td><td>3,874<br/>3,874<br/>2,113<br/>4,191<br/>5,146</td><td>0.09<br/>0.09<br/>0.05</td><td>293<br/>294</td><td>5,436<br/>4,940</td><td>0.12</td><td>412</td><td></td></tr> <tr><td>55</td><td>9,425<br/>9,425</td><td>0.22<br/>0.22<br/>0.22<br/>0.29<br/>0.23<br/>0.26</td><td>175<br/>176<br/>177<br/>178</td><td>2,113<br/>4,191<br/>5,146</td><td>0.05</td><td></td><td>4,940</td><td></td><td></td><td>8,452</td></tr> <tr><td>56       9         57       9         58       1         59       1         60       1         61       1         62       1         63       1         64       9         65       1         66       1         70       9         68       1         70       9         71       9         72       2         73       2         74       2         75       2         76       5         77       4         78       5         80       2         81       4         82       4         83       2         84       2         85       5         86       8         87       6         88       6         89       5         90       5         91       5</td><td>9,425</td><td>0.22<br/>0.22<br/>0.29<br/>0.23<br/>0.26</td><td>177<br/>178</td><td>4,191<br/>5,146</td><td></td><td></td><td>1 4,340</td><td>0.11</td><td>413</td><td>74,184<br/>143,24</td></tr> <tr><td>58       1         59       1         60       1         61       1         62       1         63       1         64       3         65       1         66       1         67       3         68       1         70       5         71       5         72       2         73       2         74       2         75       2         76       5         77       2         78       5         79       2         80       2         81       4         82       4         83       2         84       2         85       5         86       8         87       6         88       6         89       5         90       5         91       5</td><td>× 4 / Γ</td><td>0.29<br/>0.23<br/>0.26</td><td>178</td><td></td><td>0.12</td><td>296<br/>297</td><td>4,940<br/>4,940</td><td>0.11</td><td>415<br/>416</td><td>56,698<br/>67,752</td></tr> <tr><td>60</td><td>12,471</td><td>0.26</td><td></td><td>4,560</td><td>0.10</td><td>298</td><td>4,940</td><td>0.11</td><td>Total</td><td>3,043,8</td></tr> <tr><td>62 1<br/>63 1<br/>64 5<br/>65 1<br/>66 1<br/>67 5<br/>68 1<br/>70 5<br/>71 5<br/>72 4<br/>73 2<br/>74 2<br/>73 2<br/>74 2<br/>75 76 5<br/>77 4<br/>80 2<br/>81 4<br/>82 4<br/>83 2<br/>84 2<br/>85 86 8<br/>87 88 88 89 5<br/>90 5</td><td>10,212<br/>11,236</td><td></td><td>179<br/>180</td><td>4,560<br/>4,560</td><td>0.10</td><td>299<br/>300</td><td>4,940<br/>4,940</td><td>0.11</td><td></td><td></td></tr> <tr><td>63 1<br/>64 9<br/>65 1<br/>66 1<br/>67 9<br/>68 1<br/>70 5<br/>71 5<br/>72 7<br/>73 2<br/>74 2<br/>75 76 5<br/>77 2<br/>80 2<br/>81 2<br/>82 4<br/>83 2<br/>84 2<br/>85 86 88<br/>87 88<br/>88 89 5<br/>90 5</td><td>17,155<br/>17,162</td><td>0.39</td><td>181<br/>182</td><td>4,560<br/>4,560</td><td>0.10</td><td>301<br/>302</td><td>4,940<br/>7,375</td><td>0.11</td><td></td><td></td></tr> <tr><td>65</td><td>11,417</td><td>0.26</td><td>183</td><td>5,266</td><td>0.12</td><td>303</td><td>4,845</td><td>0.11</td><td></td><td></td></tr> <tr><td>67</td><td>9,230<br/>11,198</td><td>0.21</td><td>184<br/>185</td><td>4,845<br/>2,990</td><td>0.11</td><td>304<br/>305</td><td>2,990<br/>2,990</td><td>0.07</td><td></td><td></td></tr> <tr><td>68 1<br/>69 1<br/>70 5<br/>71 5<br/>72 4<br/>73 2<br/>74 2<br/>75 76 5<br/>77 4<br/>80 2<br/>81 82 4<br/>83 2<br/>84 2<br/>85 5<br/>86 8<br/>87 6<br/>88 6<br/>89 5<br/>90 5</td><td><u>13,168</u><br/>9,904</td><td>0.30</td><td>186<br/>187</td><td>2,990<br/>2,990</td><td>0.07</td><td>306<br/>307</td><td>4,030<br/>4,074</td><td>0.09</td><td></td><td></td></tr> <tr><td>70</td><td>10,202<br/>14,603</td><td>0.23</td><td>188<br/>189</td><td>2,990<br/>4,074</td><td>0.07</td><td>308<br/>309</td><td>2,990<br/>2,990</td><td>0.07</td><td></td><td></td></tr> <tr><td>72</td><td>5,244</td><td>0.12</td><td>190</td><td>4,030</td><td>0.09</td><td>310</td><td>2,990</td><td>0.07</td><td></td><td></td></tr> <tr><td>74</td><td>5,243<br/>4,788</td><td>0.12</td><td>191<br/>192</td><td>2,990<br/>2,990</td><td>0.07</td><td>311<br/>312</td><td>2,990<br/>4,845</td><td>0.07</td><td></td><td></td></tr> <tr><td>75</td><td>2,600<br/>2,600</td><td>0.06</td><td>193<br/>194</td><td>4,845<br/>5,172</td><td>0.11</td><td>313<br/>314</td><td>4,845<br/>2,990</td><td>0.11</td><td></td><td></td></tr> <tr><td>77</td><td>4,795<br/>5,275</td><td>0.11</td><td>195<br/>196</td><td>2,990</td><td>0.07</td><td>315<br/>316</td><td>2,990<br/>2,990</td><td>0.07</td><td></td><td></td></tr> <tr><td>79 2<br/>80 2<br/>81 4<br/>82 4<br/>83 2<br/>84 2<br/>85 5<br/>86 8<br/>87 6<br/>88 6<br/>89 5<br/>90 5</td><td>4,890</td><td>0.11</td><td>197</td><td>2,990<br/>2,990</td><td>0.07</td><td>317</td><td>2,990</td><td>0.07</td><td></td><td></td></tr> <tr><td>81 4<br/>82 4<br/>83 2<br/>84 2<br/>85 5<br/>86 8<br/>87 6<br/>88 6<br/>89 5<br/>90 5</td><td>5,068<br/>2,606</td><td>0.12</td><td>198<br/>199</td><td>2,990<br/>4,095</td><td>0.07</td><td>318<br/>319</td><td>4,074<br/>4,030</td><td>0.09</td><td></td><td></td></tr> <tr><td>82 4<br/>83 2<br/>84 2<br/>85 5<br/>86 8<br/>87 6<br/>88 6<br/>89 5<br/>90 5</td><td>2,609<br/>4,776</td><td>0.06</td><td>200<br/>201</td><td>3,965<br/>2,990</td><td>0.09</td><td>320<br/>321</td><td>2,990<br/>2,990</td><td>0.07</td><td></td><td></td></tr> <tr><td>84 2<br/>85 5<br/>86 8<br/>87 6<br/>88 6<br/>89 5<br/>90 5</td><td>4,769</td><td>0.11</td><td>202</td><td>2,990</td><td>0.07</td><td>322</td><td>4,845</td><td>0.11</td><td></td><td></td></tr> <tr><td>86 8<br/>87 6<br/>88 6<br/>89 5<br/>90 5</td><td>2,598<br/>2,596</td><td>0.06</td><td>203<br/>204</td><td>4,095<br/>4,095</td><td>0.09</td><td>323<br/>324</td><td>4,845<br/>2,990</td><td>0.11</td><td></td><td></td></tr> <tr><td>87 6<br/>88 6<br/>89 5<br/>90 5<br/>91 5</td><td>5,425<br/>8,416</td><td>0.12</td><td>205<br/>206</td><td>2,990<br/>2,990</td><td>0.07</td><td>325<br/>326</td><td>2,990<br/>2,990</td><td>0.07</td><td></td><td></td></tr> <tr><td>89 5<br/>90 5<br/>91 5</td><td>6,766<br/>6,230</td><td>0.16</td><td>207<br/>208</td><td>4,043<br/>5,675</td><td>0.09</td><td>327<br/>328</td><td>2,990<br/>4,074</td><td>0.07</td><td></td><td></td></tr> <tr><td>91 5</td><td>5,805</td><td>0.13</td><td>209</td><td>2,991</td><td>0.07</td><td>329</td><td>4,030</td><td>0.09</td><td></td><td></td></tr> <tr><td></td><td>5,817<br/>5,724</td><td>0.13</td><td>210<br/>211</td><td>2,990<br/>5,842</td><td>0.07</td><td>330<br/>331</td><td>2,990<br/>2,990</td><td>0.07</td><td></td><td></td></tr> <tr><td></td><td>5,817<br/>5,724</td><td>0.13</td><td>212<br/>213</td><td>5,244<br/>5,243</td><td>0.12</td><td>332<br/>333</td><td>4,845<br/>8,450</td><td>0.11</td><td></td><td></td></tr> <tr><td>94 5</td><td>5,817</td><td>0.13</td><td>214</td><td>5,244</td><td>0.12</td><td>334</td><td>8,450</td><td>0.19</td><td></td><td></td></tr> <tr><td></td><td>5,752<br/>5,789</td><td>0.13</td><td>215<br/>216</td><td>5,243<br/>5,244</td><td>0.12</td><td>335<br/>336</td><td>8,450<br/>8,450</td><td>0.19</td><td></td><td></td></tr> <tr><td></td><td>5,752<br/>5,789</td><td>0.13</td><td>217<br/>218</td><td>5,243<br/>5,244</td><td>0.12</td><td>337<br/>338</td><td>8,450<br/>8,965</td><td>0.19</td><td></td><td></td></tr> <tr><td>99 5</td><td>5,724</td><td>0.13</td><td>219</td><td>5,243</td><td>0.12</td><td>339</td><td>9,709</td><td>0.22</td><td></td><td></td></tr> <tr><td>101</td><td>/ ומ.כ</td><td>0.13</td><td>220<br/>221</td><td>5,244<br/>5,243</td><td>0.12</td><td>340<br/>341</td><td>8,437<br/>10,775</td><td>0.19</td><td></td><td></td></tr> <tr><td></td><td>5,817<br/>5,351</td><td>0.13</td><td>222<br/>223</td><td>5,244<br/>5,243</td><td>0.12</td><td>342<br/>343</td><td>10,249<br/>11,354</td><td>0.23</td><td></td><td></td></tr> <tr><td>104 6</td><td>5,351<br/>5,846</td><td>0.14</td><td>224</td><td>5,244</td><td>0.12</td><td>344</td><td>10,576</td><td>0.24</td><td></td><td></td></tr> <tr><td>106 5</td><td>5,351<br/>5,846<br/>5,205<br/>6,096</td><td>0.12</td><td>225<br/>226</td><td>5,243<br/>5,244</td><td>0.12</td><td>345<br/>346</td><td>8,437<br/>9,709</td><td>0.19</td><td></td><td></td></tr> <tr><td>108 5</td><td>5,351<br/>5,846<br/>5,205<br/>6,096<br/>5,348<br/>5,193</td><td>0.12</td><td>227<br/>228</td><td>5,243<br/>5,244</td><td>0.12</td><td>347<br/>348</td><td>9,372<br/>8,450</td><td>0.21</td><td></td><td></td></tr> <tr><td>109 5</td><td>5,351<br/>5,846<br/>5,205<br/>6,096<br/>5,348<br/>5,193<br/>5,354<br/>5,193</td><td>0.12</td><td>229<br/>230</td><td>5,243<br/>5,697</td><td>0.12</td><td>349<br/>350</td><td>8,450<br/>8,450</td><td>0.19</td><td></td><td></td></tr> <tr><td>111 5</td><td>5,351<br/>5,846<br/>5,205<br/>6,096<br/>5,348<br/>5,193<br/>5,354<br/>5,193<br/>5,354</td><td>  U.IZ</td><td>231</td><td>8,721</td><td>0.20</td><td>351</td><td>8,450</td><td>0.19</td><td></td><td></td></tr> <tr><td>113 4</td><td>5,351<br/>5,846<br/>5,205<br/>6,096<br/>5,348<br/>5,193<br/>5,354<br/>5,193<br/>5,354<br/>5,193<br/>5,354</td><td>0.12</td><td>232<br/>233</td><td>5,244<br/>5,243</td><td>0.12</td><td>352<br/>353</td><td>10,103<br/>10,390</td><td>0.23</td><td></td><td></td></tr> <tr><td>114 4</td><td>5,351<br/>5,846<br/>5,205<br/>6,096<br/>5,348<br/>5,193<br/>5,354<br/>5,193<br/>5,354<br/>5,193<br/>5,354<br/>5,193<br/>4,938</td><td>0.12<br/>0.12<br/>0.11</td><td>234<br/>235</td><td>5,244<br/>5,243</td><td>0.12</td><td>354<br/>355</td><td>9,962<br/>8,401</td><td>0.23</td><td></td><td></td></tr> <tr><td>116 5</td><td>5,351<br/>5,846<br/>5,205<br/>6,096<br/>5,348<br/>5,193<br/>5,354<br/>5,193<br/>5,354<br/>5,193<br/>5,354<br/>5,193<br/>4,938<br/>4,986</td><td>0.12<br/>0.12<br/>0.11<br/>0.11</td><td></td><td>5,244</td><td>0.12</td><td>356</td><td>8,395</td><td>0.19</td><td></td><td></td></tr> <tr><td>118</td><td>5,351<br/>5,846<br/>5,205<br/>6,096<br/>5,348<br/>5,193<br/>5,354<br/>5,193<br/>5,354<br/>5,193<br/>5,354<br/>5,193<br/>4,938<br/>4,986<br/>5,412<br/>5,660</td><td>0.12<br/>0.12<br/>0.11<br/>0.11<br/>0.12<br/>0.13</td><td>236</td><td>5,243<br/>5,244</td><td>0.12</td><td>357<br/>358</td><td>11,016</td><td>0.25</td><td></td><td></td></tr> <tr><td>119 8<br/>120 5</td><td>5,351<br/>5,846<br/>5,205<br/>6,096<br/>5,348<br/>5,193<br/>5,354<br/>5,193<br/>5,354<br/>5,193<br/>5,354<br/>5,193<br/>4,938<br/>4,986<br/>5,412</td><td>0.12<br/>0.12<br/>0.11<br/>0.11<br/>0.12</td><td>236<br/>237<br/>238<br/>239</td><td>5,243</td><td>0.12</td><td>359<br/>360</td><td>11,349<br/>10,815</td><td>0.26</td><td></td><td></td></tr> | 8,450<br>8,450<br>8,450<br>8,642<br>11,828<br>9,100<br>9,100<br>9,100<br>9,096<br>10,580<br>8,943<br>9,254<br>7,665<br>7,800<br>7,800<br>10,124<br>13,108<br>9,390<br>9,420<br>8,775<br>8,775<br>8,775<br>9,328<br>15,232<br>19,887<br>20,775<br>16,900<br>18,245<br>9,425<br>9,425   | 0.19 0.19 0.20 0.27 0.21 0.21 0.21 0.21 0.21 0.21 0.21 0.21  | 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177   | 2,990 2,990 4,759 4,672 2,990 2,990 2,990 2,990 4,095 4,095 4,095 4,095 2,990 4,672 6,413 4,978 4,988 5,183 5,453 5,723 5,993 6,263 6,533 6,803 8,927 4,775 2,113 3,874 2,113 4,191 5,146  | 0.07<br>0.07<br>0.07<br>0.11<br>0.11<br>0.07<br>0.07<br>0.07<br>0.07<br>0.09<br>0.09<br>0.09<br>0.01<br>0.11<br>0.12<br>0.13<br>0.13<br>0.14<br>0.14<br>0.15<br>0.16<br>0.20<br>0.11<br>0.05<br>0.09<br>0.09   | 266<br>267<br>268<br>269<br>270<br>271<br>272<br>273<br>274<br>275<br>276<br>277<br>278<br>279<br>280<br>281<br>282<br>283<br>284<br>285<br>286<br>287<br>288<br>290<br>291<br>292<br>293<br>294  | 4,940<br>4,940<br>4,940<br>4,940<br>4,940<br>4,940<br>4,940<br>4,940<br>4,940<br>4,940<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>5,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504 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151<br>152<br>153<br>154<br>155<br>156<br>157<br>158<br>159<br>160<br>161<br>162<br>163<br>164<br>165<br>166<br>167<br>168<br>169<br>170<br>171<br>172<br>173<br>174<br>175<br>176<br>177 | 2,990 2,990 2,990 4,095 4,095 2,990 4,672 6,413 4,978 4,988 5,183 5,453 5,723 5,993 6,263 6,533 6,803 8,927 4,775 2,113 3,874 2,113 4,191 5,146 | 0.07<br>0.07<br>0.07<br>0.09<br>0.09<br>0.09<br>0.07<br>0.11<br>0.15<br>0.11<br>0.12<br>0.13<br>0.14<br>0.14<br>0.15<br>0.16<br>0.20<br>0.11<br>0.05<br>0.09 | 271<br>272<br>273<br>274<br>275<br>276<br>277<br>278<br>279<br>280<br>281<br>282<br>283<br>284<br>285<br>286<br>287<br>288<br>289<br>290<br>291<br>292<br>293<br>294 | 4,940<br>4,940<br>4,940<br>5,582<br>6,706<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>6,804<br>10,089<br>9,137<br>7,180<br>5,778<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902 | 0.11<br>0.11<br>0.11<br>0.11<br>0.13<br>0.15<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.16<br>0.23<br>0.21<br>0.16<br>0.13<br>0.11<br>0.11<br>0.11<br>0.11 | 390<br>391<br>392<br>393<br>394<br>395<br>396<br>397<br>398<br>399<br>400<br>401<br>402<br>403<br>404<br>405<br>406<br>407<br>408<br>409<br>410<br>411<br>412 | 9,925<br>9,493<br>8,319<br>10,678<br>9,630<br>10,678<br>8,319<br>9,493<br>9,925<br>8,966<br>8,450<br>9,244<br>9,547<br>9,528<br>9,688<br>8,450<br>9,108<br>9,253<br>9,252<br>9,279 | 33       9         34       9         35       1         36       8         37       38         39       40         41       1         42       1         43       9         45       46         47       8         48       8         49       9         50       1         51       1         52       2         53       1         54       1         55       9         56       9         57       9         58       1         60       1         61       1         62       1         63       1         64       9         65       1         66       1         67       9         68       1         70       5         77       2         78       5         79       2         80       2         77       2         78 | 9,100<br>9,096<br>10,580<br>8,943<br>9,254<br>7,665<br>7,800<br>7,800<br>10,124<br>13,108<br>9,880<br>9,390<br>9,420<br>8,775<br>8,775<br>8,775<br>9,328<br>15,232<br>19,887<br>20,775<br>16,900<br>18,245<br>9,425 | 0.21<br>0.24<br>0.21<br>0.24<br>0.21<br>0.18<br>0.18<br>0.18<br>0.23<br>0.23<br>0.23<br>0.22<br>0.22<br>0.20<br>0.20<br>0.20<br>0.21<br>0.35<br>0.46<br>0.48<br>0.39<br>0.42<br>0.22<br>0.22<br>0.22<br>0.20 | 153<br>154<br>155<br>156<br>157<br>158<br>159<br>160<br>161<br>162<br>163<br>164<br>165<br>166<br>167<br>168<br>169<br>170<br>171<br>172<br>173<br>174<br>175<br>176<br>177 | 2,990 2,990 4,095 4,095 2,990 2,990 4,672 6,413 4,978 4,988 5,183 5,453 5,723 5,993 6,263 6,533 6,803 8,927 4,775 2,113 3,874 3,874 2,113 4,191 5,146 | 0.07<br>0.09<br>0.09<br>0.07<br>0.07<br>0.11<br>0.15<br>0.11<br>0.12<br>0.13<br>0.13<br>0.14<br>0.14<br>0.15<br>0.16<br>0.20<br>0.11<br>0.05<br>0.09 | 273<br>274<br>275<br>276<br>277<br>278<br>279<br>280<br>281<br>282<br>283<br>284<br>285<br>286<br>287<br>288<br>289<br>290<br>291<br>292<br>293<br>294 | 4,940<br>4,940<br>5,582<br>6,706<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>6,804<br>10,089<br>9,137<br>7,180<br>5,778<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>5,512<br>5,436<br>4,940 | 0.11<br>0.13<br>0.15<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.16<br>0.23<br>0.21<br>0.16<br>0.13<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11 | 392<br>393<br>394<br>395<br>396<br>397<br>398<br>399<br>400<br>401<br>402<br>403<br>404<br>405<br>406<br>407<br>408<br>409<br>410<br>411 | 8,319 10,678 9,630 9,630 10,678 8,319 9,493 9,925 8,966 8,450 9,244 9,547 9,528 9,688 8,450 9,108 9,253 9,252 9,279 | 34       3         35       1         36       8         37       38         39       40         41       1         42       1         43       9         45       46         47       8         49       9         50       1         51       1         52       2         53       1         54       1         55       9         56       9         57       9         58       1         60       1         61       1         62       1         63       1         64       9         65       1         66       1         67       9         68       1         69       1         70       5         77       2         78       5         80       2         81       2         82       3         83       2         84 | 9,096<br>10,580<br>8,943<br>9,254<br>7,665<br>7,800<br>7,800<br>10,124<br>13,108<br>9,880<br>9,390<br>9,420<br>8,775<br>8,775<br>9,328<br>15,232<br>19,887<br>20,775<br>16,900<br>18,245<br>9,425 | 0.21<br>0.24<br>0.21<br>0.18<br>0.18<br>0.18<br>0.23<br>0.30<br>0.23<br>0.22<br>0.22<br>0.20<br>0.20<br>0.20<br>0.21<br>0.35<br>0.46<br>0.48<br>0.39<br>0.42<br>0.22<br>0.22<br>0.22<br>0.20 | 154<br>155<br>156<br>157<br>158<br>159<br>160<br>161<br>162<br>163<br>164<br>165<br>166<br>167<br>168<br>169<br>170<br>171<br>172<br>173<br>174<br>175<br>176<br>177 | 2,990<br>4,095<br>4,095<br>2,990<br>2,990<br>4,672<br>6,413<br>4,978<br>4,988<br>5,183<br>5,453<br>5,723<br>5,993<br>6,263<br>6,533<br>6,803<br>8,927<br>4,775<br>2,113<br>3,874<br>2,113<br>4,191<br>5,146 | 0.07<br>0.09<br>0.09<br>0.07<br>0.11<br>0.15<br>0.11<br>0.12<br>0.13<br>0.13<br>0.14<br>0.14<br>0.15<br>0.16<br>0.20<br>0.11<br>0.05<br>0.09<br>0.09 | 274<br>275<br>276<br>277<br>278<br>279<br>280<br>281<br>282<br>283<br>284<br>285<br>286<br>287<br>288<br>289<br>290<br>291<br>292<br>293<br>294 | 4,940<br>5,582<br>6,706<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>6,804<br>10,089<br>9,137<br>7,180<br>5,778<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>5,512<br>5,436<br>4,940 | 0.11<br>0.13<br>0.15<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.16<br>0.23<br>0.21<br>0.16<br>0.13<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11 | 393<br>394<br>395<br>396<br>397<br>398<br>399<br>400<br>401<br>402<br>403<br>404<br>405<br>406<br>407<br>408<br>409<br>410<br>411 | 10,678<br>9,630<br>9,630<br>10,678<br>8,319<br>9,493<br>9,925<br>8,966<br>8,450<br>9,244<br>9,547<br>9,528<br>9,688<br>8,450<br>9,108<br>9,253<br>9,252<br>9,279 | 36       8         37       38         39       3         40       3         41       1         42       1         43       9         46       8         47       8         48       8         49       9         50       1         51       1         52       2         53       1         54       1         55       9         56       9         57       9         58       1         60       1         61       1         62       1         63       1         64       9         65       1         66       1         67       9         68       1         69       1         70       5         77       2         78       2         79       2         80       2         81       2         82       3         84 <t< td=""><td>8,943<br/>9,254<br/>7,665<br/>7,800<br/>7,800<br/>10,124<br/>13,108<br/>9,880<br/>9,390<br/>9,420<br/>8,775<br/>8,775<br/>8,775<br/>9,328<br/>15,232<br/>19,887<br/>20,775<br/>16,900<br/>18,245<br/>9,425<br/>9,425</td><td>0.21<br/>0.21<br/>0.18<br/>0.18<br/>0.23<br/>0.30<br/>0.23<br/>0.22<br/>0.22<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20</td><td>156<br/>157<br/>158<br/>159<br/>160<br/>161<br/>162<br/>163<br/>164<br/>165<br/>166<br/>167<br/>168<br/>169<br/>170<br/>171<br/>172<br/>173<br/>174<br/>175<br/>176<br/>177</td><td>4,095<br/>2,990<br/>2,990<br/>4,672<br/>6,413<br/>4,978<br/>4,988<br/>5,183<br/>5,453<br/>5,723<br/>5,993<br/>6,263<br/>6,533<br/>6,803<br/>8,927<br/>4,775<br/>2,113<br/>3,874<br/>2,113<br/>4,191<br/>5,146</td><td>0.09<br/>0.07<br/>0.07<br/>0.11<br/>0.15<br/>0.11<br/>0.12<br/>0.13<br/>0.13<br/>0.14<br/>0.15<br/>0.16<br/>0.20<br/>0.11<br/>0.05<br/>0.09<br/>0.09</td><td>276<br/>277<br/>278<br/>279<br/>280<br/>281<br/>282<br/>283<br/>284<br/>285<br/>286<br/>287<br/>288<br/>289<br/>290<br/>291<br/>292<br/>293<br/>294</td><td>6,706<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>6,804<br/>10,089<br/>9,137<br/>7,180<br/>5,778<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>5,512<br/>5,436<br/>4,940</td><td>0.15<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.16<br/>0.23<br/>0.21<br/>0.16<br/>0.13<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11</td><td>395<br/>396<br/>397<br/>398<br/>399<br/>400<br/>401<br/>402<br/>403<br/>404<br/>405<br/>406<br/>407<br/>408<br/>409<br/>410<br/>411</td><td>9,630<br/>10,678<br/>8,319<br/>9,493<br/>9,925<br/>8,966<br/>8,450<br/>9,244<br/>9,547<br/>9,528<br/>9,688<br/>8,450<br/>9,108<br/>9,253<br/>9,253<br/>9,279</td></t<> | 8,943<br>9,254<br>7,665<br>7,800<br>7,800<br>10,124<br>13,108<br>9,880<br>9,390<br>9,420<br>8,775<br>8,775<br>8,775<br>9,328<br>15,232<br>19,887<br>20,775<br>16,900<br>18,245<br>9,425<br>9,425 | 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| 156<br>157<br>158<br>159<br>160<br>161<br>162<br>163<br>164<br>165<br>166<br>167<br>168<br>169<br>170<br>171<br>172<br>173<br>174<br>175<br>176<br>177 | 4,095<br>2,990<br>2,990<br>4,672<br>6,413<br>4,978<br>4,988<br>5,183<br>5,453<br>5,723<br>5,993<br>6,263<br>6,533<br>6,803<br>8,927<br>4,775<br>2,113<br>3,874<br>2,113<br>4,191<br>5,146 | 0.09<br>0.07<br>0.07<br>0.11<br>0.15<br>0.11<br>0.12<br>0.13<br>0.13<br>0.14<br>0.15<br>0.16<br>0.20<br>0.11<br>0.05<br>0.09<br>0.09 | 276<br>277<br>278<br>279<br>280<br>281<br>282<br>283<br>284<br>285<br>286<br>287<br>288<br>289<br>290<br>291<br>292<br>293<br>294 | 6,706<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>6,804<br>10,089<br>9,137<br>7,180<br>5,778<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>5,512<br>5,436<br>4,940 | 0.15<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.16<br>0.23<br>0.21<br>0.16<br>0.13<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11 | 395<br>396<br>397<br>398<br>399<br>400<br>401<br>402<br>403<br>404<br>405<br>406<br>407<br>408<br>409<br>410<br>411 | 9,630<br>10,678<br>8,319<br>9,493<br>9,925<br>8,966<br>8,450<br>9,244<br>9,547<br>9,528<br>9,688<br>8,450<br>9,108<br>9,253<br>9,253<br>9,279 | 38       3         39       40         41       1         42       1         43       44         45       9         46       8         47       8         48       8         49       9         50       1         51       1         52       2         53       1         54       1         55       5         57       9         58       1         59       1         60       1         61       1         62       1         63       1         64       9         65       1         66       1         67       9         68       1         70       5         77       2         74       2         75       2         76       5         77       2         78       5         80       2         81       2         82       < | 7,665<br>7,800<br>7,800<br>10,124<br>13,108<br>9,880<br>9,390<br>9,420<br>8,775<br>8,775<br>8,775<br>9,328<br>15,232<br>19,887<br>20,775<br>16,900<br>18,245<br>9,425 | 0.18<br>0.18<br>0.23<br>0.30<br>0.22<br>0.22<br>0.20<br>0.20<br>0.20<br>0.21<br>0.35<br>0.46<br>0.48<br>0.39<br>0.42<br>0.22<br>0.22<br>0.22 | 158<br>159<br>160<br>161<br>162<br>163<br>164<br>165<br>166<br>167<br>168<br>169<br>170<br>171<br>172<br>173<br>174<br>175<br>176<br>177 | 2,990<br>4,672<br>6,413<br>4,978<br>4,988<br>5,183<br>5,453<br>5,723<br>5,993<br>6,263<br>6,533<br>6,803<br>8,927<br>4,775<br>2,113<br>3,874<br>2,113<br>4,191<br>5,146 | 0.07<br>0.11<br>0.15<br>0.11<br>0.11<br>0.12<br>0.13<br>0.13<br>0.14<br>0.14<br>0.15<br>0.16<br>0.20<br>0.11<br>0.05<br>0.09<br>0.09 | 278<br>279<br>280<br>281<br>282<br>283<br>284<br>285<br>286<br>287<br>288<br>289<br>290<br>291<br>292<br>293<br>294 | 4,902<br>4,902<br>4,902<br>4,902<br>6,804<br>10,089<br>9,137<br>7,180<br>5,778<br>4,902<br>4,902<br>4,902<br>4,902<br>5,512<br>5,436<br>4,940 | 0.11<br>0.11<br>0.11<br>0.11<br>0.16<br>0.23<br>0.21<br>0.16<br>0.13<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11 | 397<br>398<br>399<br>400<br>401<br>402<br>403<br>404<br>405<br>406<br>407<br>408<br>409<br>410<br>411 | 8,319<br>9,493<br>9,925<br>8,966<br>8,450<br>9,244<br>9,547<br>9,528<br>9,688<br>8,450<br>9,108<br>9,253<br>9,252<br>9,279 | 39         7           40         7           41         1           42         1           43         9           44         9           45         8           48         8           49         9           50         1           51         1           52         2           53         1           54         1           55         9           56         9           57         9           58         1           60         1           61         1           62         1           63         1           64         9           65         1           66         1           67         9           68         1           70         5           71         5           72         2           73         2           74         2           75         6           77         4 <trr>         78         5</trr> | 7,800<br>7,800<br>10,124<br>13,108<br>9,880<br>9,390<br>9,420<br>8,775<br>8,775<br>8,775<br>9,328<br>15,232<br>19,887<br>20,775<br>16,900<br>18,245<br>9,425 | 0.18<br>0.23<br>0.30<br>0.23<br>0.22<br>0.22<br>0.20<br>0.20<br>0.20<br>0.21<br>0.35<br>0.46<br>0.48<br>0.39<br>0.42<br>0.22<br>0.22<br>0.22<br>0.22 | 159<br>160<br>161<br>162<br>163<br>164<br>165<br>166<br>167<br>168<br>169<br>170<br>171<br>172<br>173<br>174<br>175<br>176<br>177 | 4,672<br>6,413<br>4,978<br>4,988<br>5,183<br>5,453<br>5,723<br>5,993<br>6,263<br>6,533<br>6,803<br>8,927<br>4,775<br>2,113<br>3,874<br>2,113<br>4,191<br>5,146 | 0.11<br>0.15<br>0.11<br>0.11<br>0.12<br>0.13<br>0.14<br>0.14<br>0.15<br>0.16<br>0.20<br>0.11<br>0.05<br>0.09<br>0.09 | 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 | 4,902<br>4,902<br>4,902<br>6,804<br>10,089<br>9,137<br>7,180<br>5,778<br>4,902<br>4,902<br>4,902<br>4,902<br>5,512<br>5,436<br>4,940 | 0.11<br>0.11<br>0.11<br>0.16<br>0.23<br>0.21<br>0.16<br>0.13<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.13<br>0.12<br>0.11 | 398<br>399<br>400<br>401<br>402<br>403<br>404<br>405<br>406<br>407<br>408<br>409<br>410<br>411 | 9,493<br>9,925<br>8,966<br>8,450<br>9,244<br>9,547<br>9,528<br>9,688<br>8,450<br>9,108<br>9,253<br>9,252<br>9,279 | 41       1         42       1         43       3         44       3         45       46         47       8         48       8         49       9         50       1         51       1         52       2         53       1         54       1         55       56         57       3         58       1         59       1         60       1         61       1         62       1         63       1         64       3         65       1         66       1         67       3         68       1         69       1         70       5         77       2         78       5         79       2         80       2         81       4         82       4         83       8         84       2         88       6         87       < | 10,124<br>13,108<br>9,880<br>9,390<br>9,420<br>8,775<br>8,775<br>9,328<br>15,232<br>19,887<br>20,775<br>16,900<br>18,245<br>9,425 | 0.23<br>0.30<br>0.23<br>0.22<br>0.22<br>0.20<br>0.20<br>0.20<br>0.21<br>0.35<br>0.46<br>0.48<br>0.39<br>0.42<br>0.22<br>0.22<br>0.22<br>0.22 | 161<br>162<br>163<br>164<br>165<br>166<br>167<br>168<br>169<br>170<br>171<br>172<br>173<br>174<br>175<br>176<br>177 | 4,978 4,988 5,183 5,453 5,723 5,993 6,263 6,533 6,803 8,927 4,775 2,113 3,874 2,113 4,191 5,146 | 0.11<br>0.12<br>0.13<br>0.13<br>0.14<br>0.14<br>0.15<br>0.16<br>0.20<br>0.11<br>0.05<br>0.09<br>0.09 | 281<br>282<br>283<br>284<br>285<br>286<br>287<br>288<br>289<br>290<br>291<br>292<br>293<br>294 | 4,902<br>6,804<br>10,089<br>9,137<br>7,180<br>5,778<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>5,512<br>5,436<br>4,940 | 0.11<br>0.16<br>0.23<br>0.21<br>0.16<br>0.13<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.13<br>0.12<br>0.11 | 400<br>401<br>402<br>403<br>404<br>405<br>406<br>407<br>408<br>409<br>410<br>411<br>412 | 8,966<br>8,450<br>9,244<br>9,547<br>9,528<br>9,688<br>8,450<br>9,108<br>9,253<br>9,253<br>9,279 | 43 | 9,880<br>9,390<br>9,420<br>8,775<br>8,775<br>8,775<br>9,328<br>15,232<br>19,887<br>20,775<br>16,900<br>18,245<br>9,425<br>9,425 | 0.23<br>0.22<br>0.20<br>0.20<br>0.20<br>0.20<br>0.21<br>0.35<br>0.46<br>0.48<br>0.39<br>0.42<br>0.22<br>0.22<br>0.22<br>0.22 | 163<br>164<br>165<br>166<br>167<br>168<br>169<br>170<br>171<br>172<br>173<br>174<br>175<br>176<br>177 | 5,183<br>5,453<br>5,723<br>5,993<br>6,263<br>6,533<br>6,803<br>8,927<br>4,775<br>2,113<br>3,874<br>2,113<br>4,191<br>5,146 | 0.12<br>0.13<br>0.13<br>0.14<br>0.15<br>0.16<br>0.20<br>0.11<br>0.05<br>0.09<br>0.09 | 283<br>284<br>285<br>286<br>287<br>288<br>289<br>290<br>291<br>292<br>293<br>294 | 10,089<br>9,137<br>7,180<br>5,778<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>5,512<br>5,436<br>4,940 | 0.23<br>0.21<br>0.16<br>0.13<br>0.11<br>0.11<br>0.11<br>0.11<br>0.13<br>0.12<br>0.11 | 402<br>403<br>404<br>405<br>406<br>407<br>408<br>409<br>410<br>411 | 9,244<br>9,547<br>9,528<br>9,688<br>8,450<br>9,108<br>9,253<br>9,253<br>9,279 | 45 | 9,420<br>8,775<br>8,775<br>9,328<br>15,232<br>19,887<br>20,775<br>16,900<br>18,245<br>9,425 | 0.22<br>0.20<br>0.20<br>0.20<br>0.21<br>0.35<br>0.46<br>0.48<br>0.39<br>0.42<br>0.22<br>0.22<br>0.22<br>0.22<br>0.23<br>0.26 | 165<br>166<br>167<br>168<br>169<br>170<br>171<br>172<br>173<br>174<br>175<br>176<br>177 | 5,723<br>5,993<br>6,263<br>6,533<br>6,803<br>8,927<br>4,775<br>2,113<br>3,874<br>3,874<br>2,113<br>4,191<br>5,146 | 0.13<br>0.14<br>0.14<br>0.15<br>0.16<br>0.20<br>0.11<br>0.05<br>0.09<br>0.09 | 285<br>286<br>287<br>288<br>289<br>290<br>291<br>292<br>293<br>294 | 7,180<br>5,778<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>5,512<br>5,436<br>4,940 | 0.16<br>0.13<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.13<br>0.12<br>0.11 | 404<br>405<br>406<br>407<br>408<br>409<br>410<br>411 | 9,528<br>9,688<br>8,450<br>8,450<br>9,108<br>9,253<br>9,252<br>9,279 | 46       8         47       8         48       8         49       9         50       1         51       1         52       2         53       1         54       1         55       6         57       9         58       1         59       1         60       1         61       1         62       1         63       1         64       9         65       1         66       1         67       9         68       1         70       5         71       5         72       2         73       2         74       2         75       2         76       5         77       2         80       2         81       2         82       3         84       2         85       5         86       8         87       6         88 <td< td=""><td>8,775<br/>8,775<br/>9,328<br/>15,232<br/>19,887<br/>20,775<br/>16,900<br/>18,245<br/>9,425<br/>9,425</td><td>0.20<br/>0.20<br/>0.20<br/>0.21<br/>0.35<br/>0.46<br/>0.48<br/>0.39<br/>0.42<br/>0.22<br/>0.22<br/>0.22<br/>0.22<br/>0.23<br/>0.26</td><td>166<br/>167<br/>168<br/>169<br/>170<br/>171<br/>172<br/>173<br/>174<br/>175<br/>176<br/>177</td><td>5,993<br/>6,263<br/>6,533<br/>6,803<br/>8,927<br/>4,775<br/>2,113<br/>3,874<br/>3,874<br/>2,113<br/>4,191<br/>5,146</td><td>0.14<br/>0.15<br/>0.16<br/>0.20<br/>0.11<br/>0.05<br/>0.09<br/>0.09</td><td>286<br/>287<br/>288<br/>289<br/>290<br/>291<br/>292<br/>293<br/>294</td><td>5,778<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>5,512<br/>5,436<br/>4,940</td><td>0.13<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.13<br/>0.12<br/>0.11</td><td>405<br/>406<br/>407<br/>408<br/>409<br/>410<br/>411<br/>412</td><td>9,688<br/>8,450<br/>9,108<br/>9,253<br/>9,252<br/>9,279</td></td<> | 8,775<br>8,775<br>9,328<br>15,232<br>19,887<br>20,775<br>16,900<br>18,245<br>9,425<br>9,425 | 0.20<br>0.20<br>0.20<br>0.21<br>0.35<br>0.46<br>0.48<br>0.39<br>0.42<br>0.22<br>0.22<br>0.22<br>0.22<br>0.23<br>0.26 | 166<br>167<br>168<br>169<br>170<br>171<br>172<br>173<br>174<br>175<br>176<br>177 | 5,993<br>6,263<br>6,533<br>6,803<br>8,927<br>4,775<br>2,113<br>3,874<br>3,874<br>2,113<br>4,191<br>5,146 | 0.14<br>0.15<br>0.16<br>0.20<br>0.11<br>0.05<br>0.09<br>0.09 | 286<br>287<br>288<br>289<br>290<br>291<br>292<br>293<br>294 | 5,778<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>5,512<br>5,436<br>4,940 | 0.13<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.13<br>0.12<br>0.11 | 405<br>406<br>407<br>408<br>409<br>410<br>411<br>412 | 9,688<br>8,450<br>9,108<br>9,253<br>9,252<br>9,279 | 48       8         49       9         50       1         51       1         52       2         53       1         54       1         55       9         56       9         57       9         58       1         60       1         61       1         62       1         63       1         64       9         65       1         66       1         70       9         68       1         70       9         71       9         72       2         73       7         74       2         75       7         78       9         80       2         81       2         83       2         84       2         85       5         86       8         87       6         88       6         89       5         90       5         91 <td< td=""><td>8,775<br/>9,328<br/>15,232<br/>19,887<br/>20,775<br/>16,900<br/>18,245<br/>9,425<br/>9,425</td><td>0.20<br/>0.21<br/>0.35<br/>0.46<br/>0.48<br/>0.39<br/>0.42<br/>0.22<br/>0.22<br/>0.22<br/>0.22<br/>0.29<br/>0.23<br/>0.26</td><td>168<br/>169<br/>170<br/>171<br/>172<br/>173<br/>174<br/>175<br/>176<br/>177</td><td>6,533<br/>6,803<br/>8,927<br/>4,775<br/>2,113<br/>3,874<br/>3,874<br/>2,113<br/>4,191<br/>5,146</td><td>0.15<br/>0.16<br/>0.20<br/>0.11<br/>0.05<br/>0.09<br/>0.09</td><td>288<br/>289<br/>290<br/>291<br/>292<br/>293<br/>294</td><td>4,902<br/>4,902<br/>4,902<br/>4,902<br/>5,512<br/>5,436<br/>4,940</td><td>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.13<br/>0.12<br/>0.11</td><td>407<br/>408<br/>409<br/>410<br/>411<br/>412</td><td>8,450<br/>9,108<br/>9,253<br/>9,252<br/>9,279</td></td<> | 8,775<br>9,328<br>15,232<br>19,887<br>20,775<br>16,900<br>18,245<br>9,425<br>9,425 | 0.20<br>0.21<br>0.35<br>0.46<br>0.48<br>0.39<br>0.42<br>0.22<br>0.22<br>0.22<br>0.22<br>0.29<br>0.23<br>0.26 | 168<br>169<br>170<br>171<br>172<br>173<br>174<br>175<br>176<br>177 | 6,533<br>6,803<br>8,927<br>4,775<br>2,113<br>3,874<br>3,874<br>2,113<br>4,191<br>5,146 | 0.15<br>0.16<br>0.20<br>0.11<br>0.05<br>0.09<br>0.09 | 288<br>289<br>290<br>291<br>292<br>293<br>294 | 4,902<br>4,902<br>4,902<br>4,902<br>5,512<br>5,436<br>4,940 | 0.11<br>0.11<br>0.11<br>0.11<br>0.13<br>0.12<br>0.11 | 407<br>408<br>409<br>410<br>411<br>412 | 8,450<br>9,108<br>9,253<br>9,252<br>9,279 | 50         1           51         1           52         2           53         1           54         1           55         5           56         5           57         5           58         1           59         1           60         1           61         1           62         1           63         1           64         3           65         1           66         1           70         5           71         5           72         2           73         2           74         2           75         2           76         5           77         2           78         5           79         2           80         2           81         2           82         2           83         2           84         2           87         6           88         6      88          89         5 <td>15,232<br/>19,887<br/>20,775<br/>16,900<br/>18,245<br/>9,425<br/>9,425</td> <td>0.35<br/>0.46<br/>0.48<br/>0.39<br/>0.42<br/>0.22<br/>0.22<br/>0.22<br/>0.29<br/>0.23<br/>0.26</td> <td>170<br/>171<br/>172<br/>173<br/>174<br/>175<br/>176<br/>177<br/>178</td> <td>8,927<br/>4,775<br/>2,113<br/>3,874<br/>3,874<br/>2,113<br/>4,191<br/>5,146</td> <td>0.20<br/>0.11<br/>0.05<br/>0.09<br/>0.09<br/>0.05</td> <td>290<br/>291<br/>292<br/>293<br/>294</td> <td>4,902<br/>4,902<br/>5,512<br/>5,436<br/>4,940</td> <td>0.11<br/>0.13<br/>0.12<br/>0.11</td> <td>409<br/>410<br/>411<br/>412</td> <td>9,253<br/>9,252<br/>9,279</td> | 15,232<br>19,887<br>20,775<br>16,900<br>18,245<br>9,425<br>9,425 | 0.35<br>0.46<br>0.48<br>0.39<br>0.42<br>0.22<br>0.22<br>0.22<br>0.29<br>0.23<br>0.26 | 170<br>171<br>172<br>173<br>174<br>175<br>176<br>177<br>178 | 8,927<br>4,775<br>2,113<br>3,874<br>3,874<br>2,113<br>4,191<br>5,146 | 0.20<br>0.11<br>0.05<br>0.09<br>0.09<br>0.05 | 290<br>291<br>292<br>293<br>294 | 4,902<br>4,902<br>5,512<br>5,436<br>4,940 | 0.11<br>0.13<br>0.12<br>0.11 | 409<br>410<br>411<br>412 | 9,253<br>9,252<br>9,279 | 51         1           52         2           53         1           54         1           55         9           56         9           57         9           58         1           60         1           61         1           62         1           63         1           64         9           65         1           66         1           67         9           71         5           72         2           73         7           74         2           75         4           76         5           77         4           79         2           80         2           81         4           82         8           84         2           88         6           87         6           88         6           87         6           88         6           89         5   90          91         5 </td <td>19,887<br/>20,775<br/>16,900<br/>18,245<br/>9,425<br/>9,425</td> <td>0.46<br/>0.48<br/>0.39<br/>0.42<br/>0.22<br/>0.22<br/>0.22<br/>0.29<br/>0.23<br/>0.26</td> <td>171<br/>172<br/>173<br/>174<br/>175<br/>176<br/>177<br/>178</td> <td>4,775<br/>2,113<br/>3,874<br/>3,874<br/>2,113<br/>4,191<br/>5,146</td> <td>0.11<br/>0.05<br/>0.09<br/>0.09<br/>0.05</td> <td>291<br/>292<br/>293<br/>294</td> <td>4,902<br/>5,512<br/>5,436<br/>4,940</td> <td>0.11<br/>0.13<br/>0.12<br/>0.11</td> <td>410<br/>411<br/>412</td> <td>9,252<br/>9,279</td> | 19,887<br>20,775<br>16,900<br>18,245<br>9,425<br>9,425 | 0.46<br>0.48<br>0.39<br>0.42<br>0.22<br>0.22<br>0.22<br>0.29<br>0.23<br>0.26 | 171<br>172<br>173<br>174<br>175<br>176<br>177<br>178 | 4,775<br>2,113<br>3,874<br>3,874<br>2,113<br>4,191<br>5,146 | 0.11<br>0.05<br>0.09<br>0.09<br>0.05 | 291<br>292<br>293<br>294 | 4,902<br>5,512<br>5,436<br>4,940 | 0.11<br>0.13<br>0.12<br>0.11 | 410<br>411<br>412 | 9,252<br>9,279 | 53       1         54       1         55       5         56       5         57       5         58       1         59       1         60       1         61       1         62       1         63       1         64       5         65       1         66       1         67       5         71       5         72       2         73       2         74       2         75       2         76       5         77       2         80       2         81       2         83       2         84       2         83       6         87       6         88       6         87       6         89       5         90       5         91       5 | 16,900<br>18,245<br>9,425<br>9,425 | 0.39<br>0.42<br>0.22<br>0.22<br>0.22<br>0.29<br>0.23<br>0.26 | 173<br>174<br>175<br>176<br>177<br>178 | 3,874<br>3,874<br>2,113<br>4,191<br>5,146 | 0.09<br>0.09<br>0.05 | 293<br>294 | 5,436<br>4,940 | 0.12 | 412 |  | 55 | 9,425<br>9,425 | 0.22<br>0.22<br>0.22<br>0.29<br>0.23<br>0.26 | 175<br>176<br>177<br>178 | 2,113<br>4,191<br>5,146 | 0.05 |  | 4,940 |  |  | 8,452 | 56       9         57       9         58       1         59       1         60       1         61       1         62       1         63       1         64       9         65       1         66       1         70       9         68       1         70       9         71       9         72       2         73       2         74       2         75       2         76       5         77       4         78       5         80       2         81       4         82       4         83       2         84       2         85       5         86       8         87       6         88       6         89       5         90       5         91       5 | 9,425 | 0.22<br>0.22<br>0.29<br>0.23<br>0.26 | 177<br>178 | 4,191<br>5,146 |  |  | 1 4,340 | 0.11 | 413 | 74,184<br>143,24 | 58       1         59       1         60       1         61       1         62       1         63       1         64       3         65       1         66       1         67       3         68       1         70       5         71       5         72       2         73       2         74       2         75       2         76       5         77       2         78       5         79       2         80       2         81       4         82       4         83       2         84       2         85       5         86       8         87       6         88       6         89       5         90       5         91       5 | × 4 / Γ | 0.29<br>0.23<br>0.26 | 178 |  | 0.12 | 296<br>297 | 4,940<br>4,940 | 0.11 | 415<br>416 | 56,698<br>67,752 | 60 | 12,471 | 0.26 |  | 4,560 | 0.10 | 298 | 4,940 | 0.11 | Total | 3,043,8 | 62 1<br>63 1<br>64 5<br>65 1<br>66 1<br>67 5<br>68 1<br>70 5<br>71 5<br>72 4<br>73 2<br>74 2<br>73 2<br>74 2<br>75 76 5<br>77 4<br>80 2<br>81 4<br>82 4<br>83 2<br>84 2<br>85 86 8<br>87 88 88 89 5<br>90 5 | 10,212<br>11,236 |  | 179<br>180 | 4,560<br>4,560 | 0.10 | 299<br>300 | 4,940<br>4,940 | 0.11 |  |  | 63 1<br>64 9<br>65 1<br>66 1<br>67 9<br>68 1<br>70 5<br>71 5<br>72 7<br>73 2<br>74 2<br>75 76 5<br>77 2<br>80 2<br>81 2<br>82 4<br>83 2<br>84 2<br>85 86 88<br>87 88<br>88 89 5<br>90 5 | 17,155<br>17,162 | 0.39 | 181<br>182 | 4,560<br>4,560 | 0.10 | 301<br>302 | 4,940<br>7,375 | 0.11 |  |  | 65 | 11,417 | 0.26 | 183 | 5,266 | 0.12 | 303 | 4,845 | 0.11 |  |  | 67 | 9,230<br>11,198 | 0.21 | 184<br>185 | 4,845<br>2,990 | 0.11 | 304<br>305 | 2,990<br>2,990 | 0.07 |  |  | 68 1<br>69 1<br>70 5<br>71 5<br>72 4<br>73 2<br>74 2<br>75 76 5<br>77 4<br>80 2<br>81 82 4<br>83 2<br>84 2<br>85 5<br>86 8<br>87 6<br>88 6<br>89 5<br>90 5 | <u>13,168</u><br>9,904 | 0.30 | 186<br>187 | 2,990<br>2,990 | 0.07 | 306<br>307 | 4,030<br>4,074 | 0.09 |  |  | 70 | 10,202<br>14,603 | 0.23 | 188<br>189 | 2,990<br>4,074 | 0.07 | 308<br>309 | 2,990<br>2,990 | 0.07 |  |  | 72 | 5,244 | 0.12 | 190 | 4,030 | 0.09 | 310 | 2,990 | 0.07 |  |  | 74 | 5,243<br>4,788 | 0.12 | 191<br>192 | 2,990<br>2,990 | 0.07 | 311<br>312 | 2,990<br>4,845 | 0.07 |  |  | 75 | 2,600<br>2,600 | 0.06 | 193<br>194 | 4,845<br>5,172 | 0.11 | 313<br>314 | 4,845<br>2,990 | 0.11 |  |  | 77 | 4,795<br>5,275 | 0.11 | 195<br>196 | 2,990 | 0.07 | 315<br>316 | 2,990<br>2,990 | 0.07 |  |  | 79 2<br>80 2<br>81 4<br>82 4<br>83 2<br>84 2<br>85 5<br>86 8<br>87 6<br>88 6<br>89 5<br>90 5 | 4,890 | 0.11 | 197 | 2,990<br>2,990 | 0.07 | 317 | 2,990 | 0.07 |  |  | 81 4<br>82 4<br>83 2<br>84 2<br>85 5<br>86 8<br>87 6<br>88 6<br>89 5<br>90 5 | 5,068<br>2,606 | 0.12 | 198<br>199 | 2,990<br>4,095 | 0.07 | 318<br>319 | 4,074<br>4,030 | 0.09 |  |  | 82 4<br>83 2<br>84 2<br>85 5<br>86 8<br>87 6<br>88 6<br>89 5<br>90 5 | 2,609<br>4,776 | 0.06 | 200<br>201 | 3,965<br>2,990 | 0.09 | 320<br>321 | 2,990<br>2,990 | 0.07 |  |  | 84 2<br>85 5<br>86 8<br>87 6<br>88 6<br>89 5<br>90 5 | 4,769 | 0.11 | 202 | 2,990 | 0.07 | 322 | 4,845 | 0.11 |  |  | 86 8<br>87 6<br>88 6<br>89 5<br>90 5 | 2,598<br>2,596 | 0.06 | 203<br>204 | 4,095<br>4,095 | 0.09 | 323<br>324 | 4,845<br>2,990 | 0.11 |  |  | 87 6<br>88 6<br>89 5<br>90 5<br>91 5 | 5,425<br>8,416 | 0.12 | 205<br>206 | 2,990<br>2,990 | 0.07 | 325<br>326 | 2,990<br>2,990 | 0.07 |  |  | 89 5<br>90 5<br>91 5 | 6,766<br>6,230 | 0.16 | 207<br>208 | 4,043<br>5,675 | 0.09 | 327<br>328 | 2,990<br>4,074 | 0.07 |  |  | 91 5 | 5,805 | 0.13 | 209 | 2,991 | 0.07 | 329 | 4,030 | 0.09 |  |  |  | 5,817<br>5,724 | 0.13 | 210<br>211 | 2,990<br>5,842 | 0.07 | 330<br>331 | 2,990<br>2,990 | 0.07 |  |  |  | 5,817<br>5,724 | 0.13 | 212<br>213 | 5,244<br>5,243 | 0.12 | 332<br>333 | 4,845<br>8,450 | 0.11 |  |  | 94 5 | 5,817 | 0.13 | 214 | 5,244 | 0.12 | 334 | 8,450 | 0.19 |  |  |  | 5,752<br>5,789 | 0.13 | 215<br>216 | 5,243<br>5,244 | 0.12 | 335<br>336 | 8,450<br>8,450 | 0.19 |  |  |  | 5,752<br>5,789 | 0.13 | 217<br>218 | 5,243<br>5,244 | 0.12 | 337<br>338 | 8,450<br>8,965 | 0.19 |  |  | 99 5 | 5,724 | 0.13 | 219 | 5,243 | 0.12 | 339 | 9,709 | 0.22 |  |  | 101 | / ומ.כ | 0.13 | 220<br>221 | 5,244<br>5,243 | 0.12 | 340<br>341 | 8,437<br>10,775 | 0.19 |  |  |  | 5,817<br>5,351 | 0.13 | 222<br>223 | 5,244<br>5,243 | 0.12 | 342<br>343 | 10,249<br>11,354 | 0.23 |  |  | 104 6 | 5,351<br>5,846 | 0.14 | 224 | 5,244 | 0.12 | 344 | 10,576 | 0.24 |  |  | 106 5 | 5,351<br>5,846<br>5,205<br>6,096 | 0.12 | 225<br>226 | 5,243<br>5,244 | 0.12 | 345<br>346 | 8,437<br>9,709 | 0.19 |  |  | 108 5 | 5,351<br>5,846<br>5,205<br>6,096<br>5,348<br>5,193 | 0.12 | 227<br>228 | 5,243<br>5,244 | 0.12 | 347<br>348 | 9,372<br>8,450 | 0.21 |  |  | 109 5 | 5,351<br>5,846<br>5,205<br>6,096<br>5,348<br>5,193<br>5,354<br>5,193 | 0.12 | 229<br>230 | 5,243<br>5,697 | 0.12 | 349<br>350 | 8,450<br>8,450 | 0.19 |  |  | 111 5 | 5,351<br>5,846<br>5,205<br>6,096<br>5,348<br>5,193<br>5,354<br>5,193<br>5,354 | U.IZ | 231 | 8,721 | 0.20 | 351 | 8,450 | 0.19 |  |  | 113 4 | 5,351<br>5,846<br>5,205<br>6,096<br>5,348<br>5,193<br>5,354<br>5,193<br>5,354<br>5,193<br>5,354 | 0.12 | 232<br>233 | 5,244<br>5,243 | 0.12 | 352<br>353 | 10,103<br>10,390 | 0.23 |  |  | 114 4 | 5,351<br>5,846<br>5,205<br>6,096<br>5,348<br>5,193<br>5,354<br>5,193<br>5,354<br>5,193<br>5,354<br>5,193<br>4,938 | 0.12<br>0.12<br>0.11 | 234<br>235 | 5,244<br>5,243 | 0.12 | 354<br>355 | 9,962<br>8,401 | 0.23 |  |  | 116 5 | 5,351<br>5,846<br>5,205<br>6,096<br>5,348<br>5,193<br>5,354<br>5,193<br>5,354<br>5,193<br>5,354<br>5,193<br>4,938<br>4,986 | 0.12<br>0.12<br>0.11<br>0.11 |  | 5,244 | 0.12 | 356 | 8,395 | 0.19 |  |  | 118 | 5,351<br>5,846<br>5,205<br>6,096<br>5,348<br>5,193<br>5,354<br>5,193<br>5,354<br>5,193<br>5,354<br>5,193<br>4,938<br>4,986<br>5,412<br>5,660 | 0.12<br>0.12<br>0.11<br>0.11<br>0.12<br>0.13 | 236 | 5,243<br>5,244 | 0.12 | 357<br>358 | 11,016 | 0.25 |  |  | 119 8<br>120 5 | 5,351<br>5,846<br>5,205<br>6,096<br>5,348<br>5,193<br>5,354<br>5,193<br>5,354<br>5,193<br>5,354<br>5,193<br>4,938<br>4,986<br>5,412 | 0.12<br>0.12<br>0.11<br>0.11<br>0.12 | 236<br>237<br>238<br>239 | 5,243 | 0.12 | 359<br>360 | 11,349<br>10,815 | 0.26 |  |  |
| 8,450<br>8,450<br>8,450<br>8,642<br>11,828<br>9,100<br>9,100<br>9,100<br>9,096<br>10,580<br>8,943<br>9,254<br>7,665<br>7,800<br>7,800<br>10,124<br>13,108<br>9,390<br>9,420<br>8,775<br>8,775<br>8,775<br>9,328<br>15,232<br>19,887<br>20,775<br>16,900<br>18,245<br>9,425<br>9,425  | 0.19 0.19 0.20 0.27 0.21 0.21 0.21 0.21 0.21 0.21 0.21 0.21   | 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177  | 2,990 2,990 4,759 4,672 2,990 2,990 2,990 2,990 4,095 4,095 4,095 4,095 2,990 4,672 6,413 4,978 4,988 5,183 5,453 5,723 5,993 6,263 6,533 6,803 8,927 4,775 2,113 3,874 2,113 4,191 5,146   | 0.07<br>0.07<br>0.07<br>0.11<br>0.11<br>0.07<br>0.07<br>0.07<br>0.07<br>0.09<br>0.09<br>0.09<br>0.01<br>0.11<br>0.12<br>0.13<br>0.13<br>0.14<br>0.14<br>0.15<br>0.16<br>0.20<br>0.11<br>0.05<br>0.09<br>0.09   | 266<br>267<br>268<br>269<br>270<br>271<br>272<br>273<br>274<br>275<br>276<br>277<br>278<br>279<br>280<br>281<br>282<br>283<br>284<br>285<br>286<br>287<br>288<br>290<br>291<br>292<br>293<br>294   | 4,940<br>4,940<br>4,940<br>4,940<br>4,940<br>4,940<br>4,940<br>4,940<br>4,940<br>4,940<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>5,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504 | 0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.13<br>0.15<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11   | 385<br>386<br>387<br>388<br>389<br>390<br>391<br>392<br>393<br>394<br>395<br>396<br>397<br>398<br>399<br>400<br>401<br>402<br>403<br>404<br>405<br>406<br>407<br>408<br>409<br>410<br>411<br>412   | 8,450<br>8,450<br>8,450<br>8,450<br>8,966<br>9,925<br>9,493<br>10,678<br>8,319<br>9,630<br>10,678<br>8,319<br>9,493<br>9,493<br>9,493<br>9,925<br>8,966<br>8,450<br>9,547<br>9,528<br>9,108<br>9,252<br>9,279   |   |  |   |  |   |  |  |   |   |  |  |   |  |  |   |   |   |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |   |  |  |   |  |   |   |  |  |   |  |  |   |  |   |  |  |   |  |   |  |  |   |  |   |  |  |  |   |  |   |  |  |   |   |   |   |  |  |   |  |   |   |  |   |  |  |  |  |   |  |  |   |  |  |  |   |   |   |  |   |   |  |  |   |  |   |   |    |   |  |   |  |  |  |   |  |  |   |    |   |  |   |   |  |  |  |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |  |  |  |  |  |   |   |  |  |   |   |  |  |   |  |  |                                 |   |                              |                          |                         |  |  |  |  |   |                                      |                          |                                  |                              |                   |                |  |                                    |  |  |   |                      |            |                |      |     |  |    |                |  |                          |                         |      |  |       |  |  |       |   |       |                                      |            |                |  |  |         |      |     |                  |  |         |                      |     |  |      |            |                |      |            |                  |    |        |      |  |       |      |     |       |      |       |         |   |                  |  |            |                |      |            |                |      |  |  |   |                  |      |            |                |      |            |                |      |  |  |    |        |      |     |       |      |     |       |      |  |  |    |                 |      |            |                |      |            |                |      |  |  |  |                        |      |            |                |      |            |                |      |  |  |    |                  |      |            |                |      |            |                |      |  |  |    |       |      |     |       |      |     |       |      |  |  |    |                |      |            |                |      |            |                |      |  |  |    |                |      |            |                |      |            |                |      |  |  |    |                |      |            |       |      |            |                |      |  |  |  |       |      |     |                |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |       |      |     |       |      |     |       |      |  |  |                                      |                |      |            |                |      |            |                |      |  |  |                                      |                |      |            |                |      |            |                |      |  |  |                      |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |     |        |      |            |                |      |            |                 |      |  |  |  |                |      |            |                |      |            |                  |      |  |  |       |                |      |     |       |      |     |        |      |  |  |       |                                  |      |            |                |      |            |                |      |  |  |       |  |      |            |                |      |            |                |      |  |  |       |  |      |            |                |      |            |                |      |  |  |       |   |      |     |       |      |     |       |      |  |  |       |   |      |            |                |      |            |                  |      |  |  |       |   |                      |            |                |      |            |                |      |  |  |       |  |                              |  |       |      |     |       |      |  |  |     |  |  |     |                |      |            |        |      |  |  |                |   |                                      |                          |       |      |            |                  |      |  |  |
| 28       8         29       3         30       1         31       3         32       3         33       34         35       1         36       8         37       38         39       4         40       2         41       1         42       1         43       3         44       4         45       46         48       8         49       3         50       1         51       1         52       2         53       1         54       1         55       3         57       3         58       1         59       1         61       1         62       1         63       1         64       3         65       1         66       1         67       3         77       2         73       2         74       2         75   | 8,450<br>8,642<br>11,828<br>9,100<br>9,100<br>9,100<br>9,096<br>10,580<br>8,943<br>9,254<br>7,665<br>7,800<br>7,800<br>10,124<br>13,108<br>9,390<br>9,420<br>8,775<br>8,775<br>8,775<br>9,328<br>15,232<br>19,887<br>20,775<br>16,900<br>18,245<br>9,425<br>9,425   | 0.19 0.20 0.27 0.21 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| 29         8           30         1           31         3           32         3           33         3           34         3           35         1           36         8           37         3           38         3           39         4           40         7           41         1           42         1           43         3           46         8           47         8           48         8           49         9           50         1           51         1           52         2           53         1           54         1           55         5           56         5           57         5           58         1           59         1           60         1           61         1           62         1           63         1           64         3 <trr>         65         1</trr>   | 8,642<br>11,828<br>9,100<br>9,100<br>9,100<br>9,096<br>10,580<br>8,943<br>9,254<br>7,665<br>7,800<br>7,800<br>10,124<br>13,108<br>9,390<br>9,420<br>8,775<br>8,775<br>8,775<br>9,328<br>15,232<br>19,887<br>20,775<br>16,900<br>18,245<br>9,425<br>9,425  | 0.20 0.27 0.21 0.21 0.21 0.21 0.24 0.21 0.28 0.18 0.18 0.18 0.23 0.20 0.20 0.20 0.20 0.20 0.20 0.20  | 149<br>150<br>151<br>152<br>153<br>154<br>155<br>156<br>157<br>158<br>159<br>160<br>161<br>162<br>163<br>164<br>165<br>166<br>167<br>168<br>169<br>170<br>171<br>172<br>173<br>174<br>175<br>176<br>177   | 4,759 4,672 2,990 2,990 2,990 2,990 4,095 4,095 2,990 4,672 6,413 4,978 4,988 5,183 5,453 5,723 5,993 6,263 6,533 6,803 8,927 4,775 2,113 3,874 2,113 4,191 5,146  | 0.11<br>0.07<br>0.07<br>0.07<br>0.07<br>0.09<br>0.09<br>0.09<br>0.07<br>0.11<br>0.15<br>0.11<br>0.11<br>0.12<br>0.13<br>0.13<br>0.14<br>0.14<br>0.15<br>0.16<br>0.20<br>0.07   | 269<br>270<br>271<br>272<br>273<br>274<br>275<br>276<br>277<br>278<br>279<br>280<br>281<br>282<br>283<br>284<br>285<br>286<br>287<br>288<br>289<br>290<br>291<br>292<br>293<br>294  | 4,940<br>4,940<br>4,940<br>4,940<br>4,940<br>5,582<br>6,706<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>6,804<br>10,089<br>9,137<br>7,180<br>5,778<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>5,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504<br>6,504 | 0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.13<br>0.15<br>0.11<br>0.11<br>0.11<br>0.11<br>0.16<br>0.23<br>0.21<br>0.16<br>0.13<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11   | 388<br>389<br>390<br>391<br>392<br>393<br>394<br>395<br>396<br>397<br>398<br>399<br>400<br>401<br>402<br>403<br>404<br>405<br>406<br>407<br>408<br>409<br>410<br>411<br>412   | 8,450<br>8,966<br>9,925<br>9,493<br>8,319<br>10,678<br>9,630<br>10,678<br>8,319<br>9,493<br>9,493<br>9,925<br>8,966<br>8,450<br>9,244<br>9,547<br>9,528<br>9,688<br>8,450<br>9,108<br>9,252<br>9,279  |  |   |  |   |  |  |   |   |  |  |   |  |  |   |   |   |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |   |  |  |   |  |   |   |  |  |   |  |  |   |  |   |  |  |   |  |   |  |  |   |  |   |  |  |  |   |  |   |  |  |   |   |   |   |  |  |   |  |   |   |  |   |  |  |  |  |   |  |  |   |  |  |  |   |   |   |  |   |   |  |  |   |  |   |   |    |   |  |   |  |  |  |   |  |  |   |    |   |  |   |   |  |  |  |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |  |  |  |  |  |   |   |  |  |   |   |  |  |   |  |  |                                 |   |                              |                          |                         |  |  |  |  |   |                                      |                          |                                  |                              |                   |                |  |                                    |  |  |   |                      |            |                |      |     |  |    |                |  |                          |                         |      |  |       |  |  |       |   |       |                                      |            |                |  |  |         |      |     |                  |  |         |                      |     |  |      |            |                |      |            |                  |    |        |      |  |       |      |     |       |      |       |         |   |                  |  |            |                |      |            |                |      |  |  |   |                  |      |            |                |      |            |                |      |  |  |    |        |      |     |       |      |     |       |      |  |  |    |                 |      |            |                |      |            |                |      |  |  |  |                        |      |            |                |      |            |                |      |  |  |    |                  |      |            |                |      |            |                |      |  |  |    |       |      |     |       |      |     |       |      |  |  |    |                |      |            |                |      |            |                |      |  |  |    |                |      |            |                |      |            |                |      |  |  |    |                |      |            |       |      |            |                |      |  |  |  |       |      |     |                |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |       |      |     |       |      |     |       |      |  |  |                                      |                |      |            |                |      |            |                |      |  |  |                                      |                |      |            |                |      |            |                |      |  |  |                      |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |     |        |      |            |                |      |            |                 |      |  |  |  |                |      |            |                |      |            |                  |      |  |  |       |                |      |     |       |      |     |        |      |  |  |       |                                  |      |            |                |      |            |                |      |  |  |       |  |      |            |                |      |            |                |      |  |  |       |  |      |            |                |      |            |                |      |  |  |       |   |      |     |       |      |     |       |      |  |  |       |   |      |            |                |      |            |                  |      |  |  |       |   |                      |            |                |      |            |                |      |  |  |       |  |                              |  |       |      |     |       |      |  |  |     |  |  |     |                |      |            |        |      |  |  |                |   |                                      |                          |       |      |            |                  |      |  |  |
| 31         9           32         33           34         9           35         1           36         8           37         38           39         7           40         4           41         1           42         1           43         9           46         8           47         8           48         8           49         9           50         1           51         1           52         2           53         1           54         1           55         6           57         9           58         1           59         1           61         1           62         1           63         1           64         9           57         9           58         1           70         5           77         2           78         2           70         5           77         2   | 9,100<br>9,100<br>9,100<br>9,096<br>10,580<br>8,943<br>9,254<br>7,665<br>7,800<br>10,124<br>13,108<br>9,880<br>9,390<br>9,420<br>8,775<br>8,775<br>8,775<br>8,775<br>9,328<br>15,232<br>19,887<br>20,775<br>16,900<br>18,245<br>9,425<br>9,425  | 0.21<br>0.21<br>0.21<br>0.21<br>0.21<br>0.24<br>0.21<br>0.21<br>0.18<br>0.18<br>0.18<br>0.23<br>0.23<br>0.22<br>0.22<br>0.20<br>0.20<br>0.20<br>0.21<br>0.35<br>0.46<br>0.48<br>0.39<br>0.42<br>0.22<br>0.22<br>0.22<br>0.20   | 151<br>152<br>153<br>154<br>155<br>156<br>157<br>158<br>159<br>160<br>161<br>162<br>163<br>164<br>165<br>166<br>167<br>168<br>169<br>170<br>171<br>172<br>173<br>174<br>175<br>176<br>177   | 2,990 2,990 2,990 4,095 4,095 2,990 4,672 6,413 4,978 4,988 5,183 5,453 5,723 5,993 6,263 6,533 6,803 8,927 4,775 2,113 3,874 2,113 4,191 5,146  | 0.07<br>0.07<br>0.07<br>0.09<br>0.09<br>0.09<br>0.07<br>0.11<br>0.15<br>0.11<br>0.12<br>0.13<br>0.14<br>0.14<br>0.15<br>0.16<br>0.20<br>0.11<br>0.05<br>0.09   | 271<br>272<br>273<br>274<br>275<br>276<br>277<br>278<br>279<br>280<br>281<br>282<br>283<br>284<br>285<br>286<br>287<br>288<br>289<br>290<br>291<br>292<br>293<br>294  | 4,940<br>4,940<br>4,940<br>5,582<br>6,706<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>6,804<br>10,089<br>9,137<br>7,180<br>5,778<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902   | 0.11<br>0.11<br>0.11<br>0.11<br>0.13<br>0.15<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.16<br>0.23<br>0.21<br>0.16<br>0.13<br>0.11<br>0.11<br>0.11<br>0.11   | 390<br>391<br>392<br>393<br>394<br>395<br>396<br>397<br>398<br>399<br>400<br>401<br>402<br>403<br>404<br>405<br>406<br>407<br>408<br>409<br>410<br>411<br>412   | 9,925<br>9,493<br>8,319<br>10,678<br>9,630<br>10,678<br>8,319<br>9,493<br>9,925<br>8,966<br>8,450<br>9,244<br>9,547<br>9,528<br>9,688<br>8,450<br>9,108<br>9,253<br>9,252<br>9,279  |  |   |  |   |  |  |   |   |  |  |   |  |  |   |   |   |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |   |  |  |   |  |   |   |  |  |   |  |  |   |  |   |  |  |   |  |   |  |  |   |  |   |  |  |  |   |  |   |  |  |   |   |   |   |  |  |   |  |   |   |  |   |  |  |  |  |   |  |  |   |  |  |  |   |   |   |  |   |   |  |  |   |  |   |   |    |   |  |   |  |  |  |   |  |  |   |    |   |  |   |   |  |  |  |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |  |  |  |  |  |   |   |  |  |   |   |  |  |   |  |  |                                 |   |                              |                          |                         |  |  |  |  |   |                                      |                          |                                  |                              |                   |                |  |                                    |  |  |   |                      |            |                |      |     |  |    |                |  |                          |                         |      |  |       |  |  |       |   |       |                                      |            |                |  |  |         |      |     |                  |  |         |                      |     |  |      |            |                |      |            |                  |    |        |      |  |       |      |     |       |      |       |         |   |                  |  |            |                |      |            |                |      |  |  |   |                  |      |            |                |      |            |                |      |  |  |    |        |      |     |       |      |     |       |      |  |  |    |                 |      |            |                |      |            |                |      |  |  |  |                        |      |            |                |      |            |                |      |  |  |    |                  |      |            |                |      |            |                |      |  |  |    |       |      |     |       |      |     |       |      |  |  |    |                |      |            |                |      |            |                |      |  |  |    |                |      |            |                |      |            |                |      |  |  |    |                |      |            |       |      |            |                |      |  |  |  |       |      |     |                |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |       |      |     |       |      |     |       |      |  |  |                                      |                |      |            |                |      |            |                |      |  |  |                                      |                |      |            |                |      |            |                |      |  |  |                      |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |     |        |      |            |                |      |            |                 |      |  |  |  |                |      |            |                |      |            |                  |      |  |  |       |                |      |     |       |      |     |        |      |  |  |       |                                  |      |            |                |      |            |                |      |  |  |       |  |      |            |                |      |            |                |      |  |  |       |  |      |            |                |      |            |                |      |  |  |       |   |      |     |       |      |     |       |      |  |  |       |   |      |            |                |      |            |                  |      |  |  |       |   |                      |            |                |      |            |                |      |  |  |       |  |                              |  |       |      |     |       |      |  |  |     |  |  |     |                |      |            |        |      |  |  |                |   |                                      |                          |       |      |            |                  |      |  |  |
| 33       9         34       9         35       1         36       8         37       38         39       40         41       1         42       1         43       9         45       46         47       8         48       8         49       9         50       1         51       1         52       2         53       1         54       1         55       9         56       9         57       9         58       1         60       1         61       1         62       1         63       1         64       9         65       1         66       1         67       9         68       1         70       5         77       2         78       5         79       2         80       2         77       2         78   | 9,100<br>9,096<br>10,580<br>8,943<br>9,254<br>7,665<br>7,800<br>7,800<br>10,124<br>13,108<br>9,880<br>9,390<br>9,420<br>8,775<br>8,775<br>8,775<br>9,328<br>15,232<br>19,887<br>20,775<br>16,900<br>18,245<br>9,425   | 0.21<br>0.24<br>0.21<br>0.24<br>0.21<br>0.18<br>0.18<br>0.18<br>0.23<br>0.23<br>0.23<br>0.22<br>0.22<br>0.20<br>0.20<br>0.20<br>0.21<br>0.35<br>0.46<br>0.48<br>0.39<br>0.42<br>0.22<br>0.22<br>0.22<br>0.20   | 153<br>154<br>155<br>156<br>157<br>158<br>159<br>160<br>161<br>162<br>163<br>164<br>165<br>166<br>167<br>168<br>169<br>170<br>171<br>172<br>173<br>174<br>175<br>176<br>177   | 2,990 2,990 4,095 4,095 2,990 2,990 4,672 6,413 4,978 4,988 5,183 5,453 5,723 5,993 6,263 6,533 6,803 8,927 4,775 2,113 3,874 3,874 2,113 4,191 5,146  | 0.07<br>0.09<br>0.09<br>0.07<br>0.07<br>0.11<br>0.15<br>0.11<br>0.12<br>0.13<br>0.13<br>0.14<br>0.14<br>0.15<br>0.16<br>0.20<br>0.11<br>0.05<br>0.09   | 273<br>274<br>275<br>276<br>277<br>278<br>279<br>280<br>281<br>282<br>283<br>284<br>285<br>286<br>287<br>288<br>289<br>290<br>291<br>292<br>293<br>294  | 4,940<br>4,940<br>5,582<br>6,706<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>6,804<br>10,089<br>9,137<br>7,180<br>5,778<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>5,512<br>5,436<br>4,940  | 0.11<br>0.13<br>0.15<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.16<br>0.23<br>0.21<br>0.16<br>0.13<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11   | 392<br>393<br>394<br>395<br>396<br>397<br>398<br>399<br>400<br>401<br>402<br>403<br>404<br>405<br>406<br>407<br>408<br>409<br>410<br>411  | 8,319 10,678 9,630 9,630 10,678 8,319 9,493 9,925 8,966 8,450 9,244 9,547 9,528 9,688 8,450 9,108 9,253 9,252 9,279   |  |   |  |   |  |  |   |   |  |  |   |  |  |   |   |   |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |   |  |  |   |  |   |   |  |  |   |  |  |   |  |   |  |  |   |  |   |  |  |   |  |   |  |  |  |   |  |   |  |  |   |   |   |   |  |  |   |  |   |   |  |   |  |  |  |  |   |  |  |   |  |  |  |   |   |   |  |   |   |  |  |   |  |   |   |    |   |  |   |  |  |  |   |  |  |   |    |   |  |   |   |  |  |  |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |  |  |  |  |  |   |   |  |  |   |   |  |  |   |  |  |                                 |   |                              |                          |                         |  |  |  |  |   |                                      |                          |                                  |                              |                   |                |  |                                    |  |  |   |                      |            |                |      |     |  |    |                |  |                          |                         |      |  |       |  |  |       |   |       |                                      |            |                |  |  |         |      |     |                  |  |         |                      |     |  |      |            |                |      |            |                  |    |        |      |  |       |      |     |       |      |       |         |   |                  |  |            |                |      |            |                |      |  |  |   |                  |      |            |                |      |            |                |      |  |  |    |        |      |     |       |      |     |       |      |  |  |    |                 |      |            |                |      |            |                |      |  |  |  |                        |      |            |                |      |            |                |      |  |  |    |                  |      |            |                |      |            |                |      |  |  |    |       |      |     |       |      |     |       |      |  |  |    |                |      |            |                |      |            |                |      |  |  |    |                |      |            |                |      |            |                |      |  |  |    |                |      |            |       |      |            |                |      |  |  |  |       |      |     |                |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |       |      |     |       |      |     |       |      |  |  |                                      |                |      |            |                |      |            |                |      |  |  |                                      |                |      |            |                |      |            |                |      |  |  |                      |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |     |        |      |            |                |      |            |                 |      |  |  |  |                |      |            |                |      |            |                  |      |  |  |       |                |      |     |       |      |     |        |      |  |  |       |                                  |      |            |                |      |            |                |      |  |  |       |  |      |            |                |      |            |                |      |  |  |       |  |      |            |                |      |            |                |      |  |  |       |   |      |     |       |      |     |       |      |  |  |       |   |      |            |                |      |            |                  |      |  |  |       |   |                      |            |                |      |            |                |      |  |  |       |  |                              |  |       |      |     |       |      |  |  |     |  |  |     |                |      |            |        |      |  |  |                |   |                                      |                          |       |      |            |                  |      |  |  |
| 34       3         35       1         36       8         37       38         39       40         41       1         42       1         43       9         45       46         47       8         49       9         50       1         51       1         52       2         53       1         54       1         55       9         56       9         57       9         58       1         60       1         61       1         62       1         63       1         64       9         65       1         66       1         67       9         68       1         69       1         70       5         77       2         78       5         80       2         81       2         82       3         83       2         84   | 9,096<br>10,580<br>8,943<br>9,254<br>7,665<br>7,800<br>7,800<br>10,124<br>13,108<br>9,880<br>9,390<br>9,420<br>8,775<br>8,775<br>9,328<br>15,232<br>19,887<br>20,775<br>16,900<br>18,245<br>9,425   | 0.21<br>0.24<br>0.21<br>0.18<br>0.18<br>0.18<br>0.23<br>0.30<br>0.23<br>0.22<br>0.22<br>0.20<br>0.20<br>0.20<br>0.21<br>0.35<br>0.46<br>0.48<br>0.39<br>0.42<br>0.22<br>0.22<br>0.22<br>0.20   | 154<br>155<br>156<br>157<br>158<br>159<br>160<br>161<br>162<br>163<br>164<br>165<br>166<br>167<br>168<br>169<br>170<br>171<br>172<br>173<br>174<br>175<br>176<br>177  | 2,990<br>4,095<br>4,095<br>2,990<br>2,990<br>4,672<br>6,413<br>4,978<br>4,988<br>5,183<br>5,453<br>5,723<br>5,993<br>6,263<br>6,533<br>6,803<br>8,927<br>4,775<br>2,113<br>3,874<br>2,113<br>4,191<br>5,146  | 0.07<br>0.09<br>0.09<br>0.07<br>0.11<br>0.15<br>0.11<br>0.12<br>0.13<br>0.13<br>0.14<br>0.14<br>0.15<br>0.16<br>0.20<br>0.11<br>0.05<br>0.09<br>0.09   | 274<br>275<br>276<br>277<br>278<br>279<br>280<br>281<br>282<br>283<br>284<br>285<br>286<br>287<br>288<br>289<br>290<br>291<br>292<br>293<br>294   | 4,940<br>5,582<br>6,706<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>6,804<br>10,089<br>9,137<br>7,180<br>5,778<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>5,512<br>5,436<br>4,940   | 0.11<br>0.13<br>0.15<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.16<br>0.23<br>0.21<br>0.16<br>0.13<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11   | 393<br>394<br>395<br>396<br>397<br>398<br>399<br>400<br>401<br>402<br>403<br>404<br>405<br>406<br>407<br>408<br>409<br>410<br>411   | 10,678<br>9,630<br>9,630<br>10,678<br>8,319<br>9,493<br>9,925<br>8,966<br>8,450<br>9,244<br>9,547<br>9,528<br>9,688<br>8,450<br>9,108<br>9,253<br>9,252<br>9,279  |  |   |  |   |  |  |   |   |  |  |   |  |  |   |   |   |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |   |  |  |   |  |   |   |  |  |   |  |  |   |  |   |  |  |   |  |   |  |  |   |  |   |  |  |  |   |  |   |  |  |   |   |   |   |  |  |   |  |   |   |  |   |  |  |  |  |   |  |  |   |  |  |  |   |   |   |  |   |   |  |  |   |  |   |   |    |   |  |   |  |  |  |   |  |  |   |    |   |  |   |   |  |  |  |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |  |  |  |  |  |   |   |  |  |   |   |  |  |   |  |  |                                 |   |                              |                          |                         |  |  |  |  |   |                                      |                          |                                  |                              |                   |                |  |                                    |  |  |   |                      |            |                |      |     |  |    |                |  |                          |                         |      |  |       |  |  |       |   |       |                                      |            |                |  |  |         |      |     |                  |  |         |                      |     |  |      |            |                |      |            |                  |    |        |      |  |       |      |     |       |      |       |         |   |                  |  |            |                |      |            |                |      |  |  |   |                  |      |            |                |      |            |                |      |  |  |    |        |      |     |       |      |     |       |      |  |  |    |                 |      |            |                |      |            |                |      |  |  |  |                        |      |            |                |      |            |                |      |  |  |    |                  |      |            |                |      |            |                |      |  |  |    |       |      |     |       |      |     |       |      |  |  |    |                |      |            |                |      |            |                |      |  |  |    |                |      |            |                |      |            |                |      |  |  |    |                |      |            |       |      |            |                |      |  |  |  |       |      |     |                |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |       |      |     |       |      |     |       |      |  |  |                                      |                |      |            |                |      |            |                |      |  |  |                                      |                |      |            |                |      |            |                |      |  |  |                      |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |     |        |      |            |                |      |            |                 |      |  |  |  |                |      |            |                |      |            |                  |      |  |  |       |                |      |     |       |      |     |        |      |  |  |       |                                  |      |            |                |      |            |                |      |  |  |       |  |      |            |                |      |            |                |      |  |  |       |  |      |            |                |      |            |                |      |  |  |       |   |      |     |       |      |     |       |      |  |  |       |   |      |            |                |      |            |                  |      |  |  |       |   |                      |            |                |      |            |                |      |  |  |       |  |                              |  |       |      |     |       |      |  |  |     |  |  |     |                |      |            |        |      |  |  |                |   |                                      |                          |       |      |            |                  |      |  |  |
| 36       8         37       38         39       3         40       3         41       1         42       1         43       9         46       8         47       8         48       8         49       9         50       1         51       1         52       2         53       1         54       1         55       9         56       9         57       9         58       1         60       1         61       1         62       1         63       1         64       9         65       1         66       1         67       9         68       1         69       1         70       5         77       2         78       2         79       2         80       2         81       2         82       3         84 <t< td=""><td>8,943<br/>9,254<br/>7,665<br/>7,800<br/>7,800<br/>10,124<br/>13,108<br/>9,880<br/>9,390<br/>9,420<br/>8,775<br/>8,775<br/>8,775<br/>9,328<br/>15,232<br/>19,887<br/>20,775<br/>16,900<br/>18,245<br/>9,425<br/>9,425</td><td>0.21<br/>0.21<br/>0.18<br/>0.18<br/>0.23<br/>0.30<br/>0.23<br/>0.22<br/>0.22<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20<br/>0.20</td><td>156<br/>157<br/>158<br/>159<br/>160<br/>161<br/>162<br/>163<br/>164<br/>165<br/>166<br/>167<br/>168<br/>169<br/>170<br/>171<br/>172<br/>173<br/>174<br/>175<br/>176<br/>177</td><td>4,095<br/>2,990<br/>2,990<br/>4,672<br/>6,413<br/>4,978<br/>4,988<br/>5,183<br/>5,453<br/>5,723<br/>5,993<br/>6,263<br/>6,533<br/>6,803<br/>8,927<br/>4,775<br/>2,113<br/>3,874<br/>2,113<br/>4,191<br/>5,146</td><td>0.09<br/>0.07<br/>0.07<br/>0.11<br/>0.15<br/>0.11<br/>0.12<br/>0.13<br/>0.13<br/>0.14<br/>0.15<br/>0.16<br/>0.20<br/>0.11<br/>0.05<br/>0.09<br/>0.09</td><td>276<br/>277<br/>278<br/>279<br/>280<br/>281<br/>282<br/>283<br/>284<br/>285<br/>286<br/>287<br/>288<br/>289<br/>290<br/>291<br/>292<br/>293<br/>294</td><td>6,706<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>6,804<br/>10,089<br/>9,137<br/>7,180<br/>5,778<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>5,512<br/>5,436<br/>4,940</td><td>0.15<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.16<br/>0.23<br/>0.21<br/>0.16<br/>0.13<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11</td><td>395<br/>396<br/>397<br/>398<br/>399<br/>400<br/>401<br/>402<br/>403<br/>404<br/>405<br/>406<br/>407<br/>408<br/>409<br/>410<br/>411</td><td>9,630<br/>10,678<br/>8,319<br/>9,493<br/>9,925<br/>8,966<br/>8,450<br/>9,244<br/>9,547<br/>9,528<br/>9,688<br/>8,450<br/>9,108<br/>9,253<br/>9,253<br/>9,279</td></t<>  | 8,943<br>9,254<br>7,665<br>7,800<br>7,800<br>10,124<br>13,108<br>9,880<br>9,390<br>9,420<br>8,775<br>8,775<br>8,775<br>9,328<br>15,232<br>19,887<br>20,775<br>16,900<br>18,245<br>9,425<br>9,425  | 0.21<br>0.21<br>0.18<br>0.18<br>0.23<br>0.30<br>0.23<br>0.22<br>0.22<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20 | 156<br>157<br>158<br>159<br>160<br>161<br>162<br>163<br>164<br>165<br>166<br>167<br>168<br>169<br>170<br>171<br>172<br>173<br>174<br>175<br>176<br>177  | 4,095<br>2,990<br>2,990<br>4,672<br>6,413<br>4,978<br>4,988<br>5,183<br>5,453<br>5,723<br>5,993<br>6,263<br>6,533<br>6,803<br>8,927<br>4,775<br>2,113<br>3,874<br>2,113<br>4,191<br>5,146  | 0.09<br>0.07<br>0.07<br>0.11<br>0.15<br>0.11<br>0.12<br>0.13<br>0.13<br>0.14<br>0.15<br>0.16<br>0.20<br>0.11<br>0.05<br>0.09<br>0.09   | 276<br>277<br>278<br>279<br>280<br>281<br>282<br>283<br>284<br>285<br>286<br>287<br>288<br>289<br>290<br>291<br>292<br>293<br>294   | 6,706<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>6,804<br>10,089<br>9,137<br>7,180<br>5,778<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>5,512<br>5,436<br>4,940   | 0.15<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.16<br>0.23<br>0.21<br>0.16<br>0.13<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11   | 395<br>396<br>397<br>398<br>399<br>400<br>401<br>402<br>403<br>404<br>405<br>406<br>407<br>408<br>409<br>410<br>411   | 9,630<br>10,678<br>8,319<br>9,493<br>9,925<br>8,966<br>8,450<br>9,244<br>9,547<br>9,528<br>9,688<br>8,450<br>9,108<br>9,253<br>9,253<br>9,279   |  |   |  |   |  |  |   |   |  |  |   |  |  |   |   |   |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |   |  |  |   |  |   |   |  |  |   |  |  |   |  |   |  |  |   |  |   |  |  |   |  |   |  |  |  |   |  |   |  |  |   |   |   |   |  |  |   |  |   |   |  |   |  |  |  |  |   |  |  |   |  |  |  |   |   |   |  |   |   |  |  |   |  |   |   |    |   |  |   |  |  |  |   |  |  |   |    |   |  |   |   |  |  |  |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |  |  |  |  |  |   |   |  |  |   |   |  |  |   |  |  |                                 |   |                              |                          |                         |  |  |  |  |   |                                      |                          |                                  |                              |                   |                |  |                                    |  |  |   |                      |            |                |      |     |  |    |                |  |                          |                         |      |  |       |  |  |       |   |       |                                      |            |                |  |  |         |      |     |                  |  |         |                      |     |  |      |            |                |      |            |                  |    |        |      |  |       |      |     |       |      |       |         |   |                  |  |            |                |      |            |                |      |  |  |   |                  |      |            |                |      |            |                |      |  |  |    |        |      |     |       |      |     |       |      |  |  |    |                 |      |            |                |      |            |                |      |  |  |  |                        |      |            |                |      |            |                |      |  |  |    |                  |      |            |                |      |            |                |      |  |  |    |       |      |     |       |      |     |       |      |  |  |    |                |      |            |                |      |            |                |      |  |  |    |                |      |            |                |      |            |                |      |  |  |    |                |      |            |       |      |            |                |      |  |  |  |       |      |     |                |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |       |      |     |       |      |     |       |      |  |  |                                      |                |      |            |                |      |            |                |      |  |  |                                      |                |      |            |                |      |            |                |      |  |  |                      |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |     |        |      |            |                |      |            |                 |      |  |  |  |                |      |            |                |      |            |                  |      |  |  |       |                |      |     |       |      |     |        |      |  |  |       |                                  |      |            |                |      |            |                |      |  |  |       |  |      |            |                |      |            |                |      |  |  |       |  |      |            |                |      |            |                |      |  |  |       |   |      |     |       |      |     |       |      |  |  |       |   |      |            |                |      |            |                  |      |  |  |       |   |                      |            |                |      |            |                |      |  |  |       |  |                              |  |       |      |     |       |      |  |  |     |  |  |     |                |      |            |        |      |  |  |                |   |                                      |                          |       |      |            |                  |      |  |  |
| 38       3         39       40         41       1         42       1         43       44         45       9         46       8         47       8         48       8         49       9         50       1         51       1         52       2         53       1         54       1         55       5         57       9         58       1         59       1         60       1         61       1         62       1         63       1         64       9         65       1         66       1         67       9         68       1         70       5         77       2         74       2         75       2         76       5         77       2         78       5         80       2         81       2         82       <  | 7,665<br>7,800<br>7,800<br>10,124<br>13,108<br>9,880<br>9,390<br>9,420<br>8,775<br>8,775<br>8,775<br>9,328<br>15,232<br>19,887<br>20,775<br>16,900<br>18,245<br>9,425   | 0.18<br>0.18<br>0.23<br>0.30<br>0.22<br>0.22<br>0.20<br>0.20<br>0.20<br>0.21<br>0.35<br>0.46<br>0.48<br>0.39<br>0.42<br>0.22<br>0.22<br>0.22   | 158<br>159<br>160<br>161<br>162<br>163<br>164<br>165<br>166<br>167<br>168<br>169<br>170<br>171<br>172<br>173<br>174<br>175<br>176<br>177  | 2,990<br>4,672<br>6,413<br>4,978<br>4,988<br>5,183<br>5,453<br>5,723<br>5,993<br>6,263<br>6,533<br>6,803<br>8,927<br>4,775<br>2,113<br>3,874<br>2,113<br>4,191<br>5,146  | 0.07<br>0.11<br>0.15<br>0.11<br>0.11<br>0.12<br>0.13<br>0.13<br>0.14<br>0.14<br>0.15<br>0.16<br>0.20<br>0.11<br>0.05<br>0.09<br>0.09   | 278<br>279<br>280<br>281<br>282<br>283<br>284<br>285<br>286<br>287<br>288<br>289<br>290<br>291<br>292<br>293<br>294   | 4,902<br>4,902<br>4,902<br>4,902<br>6,804<br>10,089<br>9,137<br>7,180<br>5,778<br>4,902<br>4,902<br>4,902<br>4,902<br>5,512<br>5,436<br>4,940  | 0.11<br>0.11<br>0.11<br>0.11<br>0.16<br>0.23<br>0.21<br>0.16<br>0.13<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11   | 397<br>398<br>399<br>400<br>401<br>402<br>403<br>404<br>405<br>406<br>407<br>408<br>409<br>410<br>411   | 8,319<br>9,493<br>9,925<br>8,966<br>8,450<br>9,244<br>9,547<br>9,528<br>9,688<br>8,450<br>9,108<br>9,253<br>9,252<br>9,279  |  |   |  |   |  |  |   |   |  |  |   |  |  |   |   |   |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |   |  |  |   |  |   |   |  |  |   |  |  |   |  |   |  |  |   |  |   |  |  |   |  |   |  |  |  |   |  |   |  |  |   |   |   |   |  |  |   |  |   |   |  |   |  |  |  |  |   |  |  |   |  |  |  |   |   |   |  |   |   |  |  |   |  |   |   |    |   |  |   |  |  |  |   |  |  |   |    |   |  |   |   |  |  |  |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |  |  |  |  |  |   |   |  |  |   |   |  |  |   |  |  |                                 |   |                              |                          |                         |  |  |  |  |   |                                      |                          |                                  |                              |                   |                |  |                                    |  |  |   |                      |            |                |      |     |  |    |                |  |                          |                         |      |  |       |  |  |       |   |       |                                      |            |                |  |  |         |      |     |                  |  |         |                      |     |  |      |            |                |      |            |                  |    |        |      |  |       |      |     |       |      |       |         |   |                  |  |            |                |      |            |                |      |  |  |   |                  |      |            |                |      |            |                |      |  |  |    |        |      |     |       |      |     |       |      |  |  |    |                 |      |            |                |      |            |                |      |  |  |  |                        |      |            |                |      |            |                |      |  |  |    |                  |      |            |                |      |            |                |      |  |  |    |       |      |     |       |      |     |       |      |  |  |    |                |      |            |                |      |            |                |      |  |  |    |                |      |            |                |      |            |                |      |  |  |    |                |      |            |       |      |            |                |      |  |  |  |       |      |     |                |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |       |      |     |       |      |     |       |      |  |  |                                      |                |      |            |                |      |            |                |      |  |  |                                      |                |      |            |                |      |            |                |      |  |  |                      |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |     |        |      |            |                |      |            |                 |      |  |  |  |                |      |            |                |      |            |                  |      |  |  |       |                |      |     |       |      |     |        |      |  |  |       |                                  |      |            |                |      |            |                |      |  |  |       |  |      |            |                |      |            |                |      |  |  |       |  |      |            |                |      |            |                |      |  |  |       |   |      |     |       |      |     |       |      |  |  |       |   |      |            |                |      |            |                  |      |  |  |       |   |                      |            |                |      |            |                |      |  |  |       |  |                              |  |       |      |     |       |      |  |  |     |  |  |     |                |      |            |        |      |  |  |                |   |                                      |                          |       |      |            |                  |      |  |  |
| 39         7           40         7           41         1           42         1           43         9           44         9           45         8           48         8           49         9           50         1           51         1           52         2           53         1           54         1           55         9           56         9           57         9           58         1           60         1           61         1           62         1           63         1           64         9           65         1           66         1           67         9           68         1           70         5           71         5           72         2           73         2           74         2           75         6           77         4 <trr>         78         5</trr>   | 7,800<br>7,800<br>10,124<br>13,108<br>9,880<br>9,390<br>9,420<br>8,775<br>8,775<br>8,775<br>9,328<br>15,232<br>19,887<br>20,775<br>16,900<br>18,245<br>9,425  | 0.18<br>0.23<br>0.30<br>0.23<br>0.22<br>0.22<br>0.20<br>0.20<br>0.20<br>0.21<br>0.35<br>0.46<br>0.48<br>0.39<br>0.42<br>0.22<br>0.22<br>0.22<br>0.22   | 159<br>160<br>161<br>162<br>163<br>164<br>165<br>166<br>167<br>168<br>169<br>170<br>171<br>172<br>173<br>174<br>175<br>176<br>177   | 4,672<br>6,413<br>4,978<br>4,988<br>5,183<br>5,453<br>5,723<br>5,993<br>6,263<br>6,533<br>6,803<br>8,927<br>4,775<br>2,113<br>3,874<br>2,113<br>4,191<br>5,146   | 0.11<br>0.15<br>0.11<br>0.11<br>0.12<br>0.13<br>0.14<br>0.14<br>0.15<br>0.16<br>0.20<br>0.11<br>0.05<br>0.09<br>0.09   | 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294   | 4,902<br>4,902<br>4,902<br>6,804<br>10,089<br>9,137<br>7,180<br>5,778<br>4,902<br>4,902<br>4,902<br>4,902<br>5,512<br>5,436<br>4,940   | 0.11<br>0.11<br>0.11<br>0.16<br>0.23<br>0.21<br>0.16<br>0.13<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.13<br>0.12<br>0.11   | 398<br>399<br>400<br>401<br>402<br>403<br>404<br>405<br>406<br>407<br>408<br>409<br>410<br>411  | 9,493<br>9,925<br>8,966<br>8,450<br>9,244<br>9,547<br>9,528<br>9,688<br>8,450<br>9,108<br>9,253<br>9,252<br>9,279   |  |   |  |   |  |  |   |   |  |  |   |  |  |   |   |   |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |   |  |  |   |  |   |   |  |  |   |  |  |   |  |   |  |  |   |  |   |  |  |   |  |   |  |  |  |   |  |   |  |  |   |   |   |   |  |  |   |  |   |   |  |   |  |  |  |  |   |  |  |   |  |  |  |   |   |   |  |   |   |  |  |   |  |   |   |    |   |  |   |  |  |  |   |  |  |   |    |   |  |   |   |  |  |  |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |  |  |  |  |  |   |   |  |  |   |   |  |  |   |  |  |                                 |   |                              |                          |                         |  |  |  |  |   |                                      |                          |                                  |                              |                   |                |  |                                    |  |  |   |                      |            |                |      |     |  |    |                |  |                          |                         |      |  |       |  |  |       |   |       |                                      |            |                |  |  |         |      |     |                  |  |         |                      |     |  |      |            |                |      |            |                  |    |        |      |  |       |      |     |       |      |       |         |   |                  |  |            |                |      |            |                |      |  |  |   |                  |      |            |                |      |            |                |      |  |  |    |        |      |     |       |      |     |       |      |  |  |    |                 |      |            |                |      |            |                |      |  |  |  |                        |      |            |                |      |            |                |      |  |  |    |                  |      |            |                |      |            |                |      |  |  |    |       |      |     |       |      |     |       |      |  |  |    |                |      |            |                |      |            |                |      |  |  |    |                |      |            |                |      |            |                |      |  |  |    |                |      |            |       |      |            |                |      |  |  |  |       |      |     |                |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |       |      |     |       |      |     |       |      |  |  |                                      |                |      |            |                |      |            |                |      |  |  |                                      |                |      |            |                |      |            |                |      |  |  |                      |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |     |        |      |            |                |      |            |                 |      |  |  |  |                |      |            |                |      |            |                  |      |  |  |       |                |      |     |       |      |     |        |      |  |  |       |                                  |      |            |                |      |            |                |      |  |  |       |  |      |            |                |      |            |                |      |  |  |       |  |      |            |                |      |            |                |      |  |  |       |   |      |     |       |      |     |       |      |  |  |       |   |      |            |                |      |            |                  |      |  |  |       |   |                      |            |                |      |            |                |      |  |  |       |  |                              |  |       |      |     |       |      |  |  |     |  |  |     |                |      |            |        |      |  |  |                |   |                                      |                          |       |      |            |                  |      |  |  |
| 41       1         42       1         43       3         44       3         45       46         47       8         48       8         49       9         50       1         51       1         52       2         53       1         54       1         55       56         57       3         58       1         59       1         60       1         61       1         62       1         63       1         64       3         65       1         66       1         67       3         68       1         69       1         70       5         77       2         78       5         79       2         80       2         81       4         82       4         83       8         84       2         88       6         87       <  | 10,124<br>13,108<br>9,880<br>9,390<br>9,420<br>8,775<br>8,775<br>9,328<br>15,232<br>19,887<br>20,775<br>16,900<br>18,245<br>9,425   | 0.23<br>0.30<br>0.23<br>0.22<br>0.22<br>0.20<br>0.20<br>0.20<br>0.21<br>0.35<br>0.46<br>0.48<br>0.39<br>0.42<br>0.22<br>0.22<br>0.22<br>0.22   | 161<br>162<br>163<br>164<br>165<br>166<br>167<br>168<br>169<br>170<br>171<br>172<br>173<br>174<br>175<br>176<br>177   | 4,978 4,988 5,183 5,453 5,723 5,993 6,263 6,533 6,803 8,927 4,775 2,113 3,874 2,113 4,191 5,146  | 0.11<br>0.12<br>0.13<br>0.13<br>0.14<br>0.14<br>0.15<br>0.16<br>0.20<br>0.11<br>0.05<br>0.09<br>0.09   | 281<br>282<br>283<br>284<br>285<br>286<br>287<br>288<br>289<br>290<br>291<br>292<br>293<br>294  | 4,902<br>6,804<br>10,089<br>9,137<br>7,180<br>5,778<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>5,512<br>5,436<br>4,940  | 0.11<br>0.16<br>0.23<br>0.21<br>0.16<br>0.13<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.13<br>0.12<br>0.11   | 400<br>401<br>402<br>403<br>404<br>405<br>406<br>407<br>408<br>409<br>410<br>411<br>412   | 8,966<br>8,450<br>9,244<br>9,547<br>9,528<br>9,688<br>8,450<br>9,108<br>9,253<br>9,253<br>9,279   |  |   |  |   |  |  |   |   |  |  |   |  |  |   |   |   |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |   |  |  |   |  |   |   |  |  |   |  |  |   |  |   |  |  |   |  |   |  |  |   |  |   |  |  |  |   |  |   |  |  |   |   |   |   |  |  |   |  |   |   |  |   |  |  |  |  |   |  |  |   |  |  |  |   |   |   |  |   |   |  |  |   |  |   |   |    |   |  |   |  |  |  |   |  |  |   |    |   |  |   |   |  |  |  |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |  |  |  |  |  |   |   |  |  |   |   |  |  |   |  |  |                                 |   |                              |                          |                         |  |  |  |  |   |                                      |                          |                                  |                              |                   |                |  |                                    |  |  |   |                      |            |                |      |     |  |    |                |  |                          |                         |      |  |       |  |  |       |   |       |                                      |            |                |  |  |         |      |     |                  |  |         |                      |     |  |      |            |                |      |            |                  |    |        |      |  |       |      |     |       |      |       |         |   |                  |  |            |                |      |            |                |      |  |  |   |                  |      |            |                |      |            |                |      |  |  |    |        |      |     |       |      |     |       |      |  |  |    |                 |      |            |                |      |            |                |      |  |  |  |                        |      |            |                |      |            |                |      |  |  |    |                  |      |            |                |      |            |                |      |  |  |    |       |      |     |       |      |     |       |      |  |  |    |                |      |            |                |      |            |                |      |  |  |    |                |      |            |                |      |            |                |      |  |  |    |                |      |            |       |      |            |                |      |  |  |  |       |      |     |                |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |       |      |     |       |      |     |       |      |  |  |                                      |                |      |            |                |      |            |                |      |  |  |                                      |                |      |            |                |      |            |                |      |  |  |                      |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |     |        |      |            |                |      |            |                 |      |  |  |  |                |      |            |                |      |            |                  |      |  |  |       |                |      |     |       |      |     |        |      |  |  |       |                                  |      |            |                |      |            |                |      |  |  |       |  |      |            |                |      |            |                |      |  |  |       |  |      |            |                |      |            |                |      |  |  |       |   |      |     |       |      |     |       |      |  |  |       |   |      |            |                |      |            |                  |      |  |  |       |   |                      |            |                |      |            |                |      |  |  |       |  |                              |  |       |      |     |       |      |  |  |     |  |  |     |                |      |            |        |      |  |  |                |   |                                      |                          |       |      |            |                  |      |  |  |
| 43   | 9,880<br>9,390<br>9,420<br>8,775<br>8,775<br>8,775<br>9,328<br>15,232<br>19,887<br>20,775<br>16,900<br>18,245<br>9,425<br>9,425   | 0.23<br>0.22<br>0.20<br>0.20<br>0.20<br>0.20<br>0.21<br>0.35<br>0.46<br>0.48<br>0.39<br>0.42<br>0.22<br>0.22<br>0.22<br>0.22   | 163<br>164<br>165<br>166<br>167<br>168<br>169<br>170<br>171<br>172<br>173<br>174<br>175<br>176<br>177   | 5,183<br>5,453<br>5,723<br>5,993<br>6,263<br>6,533<br>6,803<br>8,927<br>4,775<br>2,113<br>3,874<br>2,113<br>4,191<br>5,146   | 0.12<br>0.13<br>0.13<br>0.14<br>0.15<br>0.16<br>0.20<br>0.11<br>0.05<br>0.09<br>0.09   | 283<br>284<br>285<br>286<br>287<br>288<br>289<br>290<br>291<br>292<br>293<br>294  | 10,089<br>9,137<br>7,180<br>5,778<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>5,512<br>5,436<br>4,940  | 0.23<br>0.21<br>0.16<br>0.13<br>0.11<br>0.11<br>0.11<br>0.11<br>0.13<br>0.12<br>0.11   | 402<br>403<br>404<br>405<br>406<br>407<br>408<br>409<br>410<br>411  | 9,244<br>9,547<br>9,528<br>9,688<br>8,450<br>9,108<br>9,253<br>9,253<br>9,279   |  |   |  |   |  |  |   |   |  |  |   |  |  |   |   |   |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |   |  |  |   |  |   |   |  |  |   |  |  |   |  |   |  |  |   |  |   |  |  |   |  |   |  |  |  |   |  |   |  |  |   |   |   |   |  |  |   |  |   |   |  |   |  |  |  |  |   |  |  |   |  |  |  |   |   |   |  |   |   |  |  |   |  |   |   |    |   |  |   |  |  |  |   |  |  |   |    |   |  |   |   |  |  |  |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |  |  |  |  |  |   |   |  |  |   |   |  |  |   |  |  |                                 |   |                              |                          |                         |  |  |  |  |   |                                      |                          |                                  |                              |                   |                |  |                                    |  |  |   |                      |            |                |      |     |  |    |                |  |                          |                         |      |  |       |  |  |       |   |       |                                      |            |                |  |  |         |      |     |                  |  |         |                      |     |  |      |            |                |      |            |                  |    |        |      |  |       |      |     |       |      |       |         |   |                  |  |            |                |      |            |                |      |  |  |   |                  |      |            |                |      |            |                |      |  |  |    |        |      |     |       |      |     |       |      |  |  |    |                 |      |            |                |      |            |                |      |  |  |  |                        |      |            |                |      |            |                |      |  |  |    |                  |      |            |                |      |            |                |      |  |  |    |       |      |     |       |      |     |       |      |  |  |    |                |      |            |                |      |            |                |      |  |  |    |                |      |            |                |      |            |                |      |  |  |    |                |      |            |       |      |            |                |      |  |  |  |       |      |     |                |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |       |      |     |       |      |     |       |      |  |  |                                      |                |      |            |                |      |            |                |      |  |  |                                      |                |      |            |                |      |            |                |      |  |  |                      |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |     |        |      |            |                |      |            |                 |      |  |  |  |                |      |            |                |      |            |                  |      |  |  |       |                |      |     |       |      |     |        |      |  |  |       |                                  |      |            |                |      |            |                |      |  |  |       |  |      |            |                |      |            |                |      |  |  |       |  |      |            |                |      |            |                |      |  |  |       |   |      |     |       |      |     |       |      |  |  |       |   |      |            |                |      |            |                  |      |  |  |       |   |                      |            |                |      |            |                |      |  |  |       |  |                              |  |       |      |     |       |      |  |  |     |  |  |     |                |      |            |        |      |  |  |                |   |                                      |                          |       |      |            |                  |      |  |  |
| 45   | 9,420<br>8,775<br>8,775<br>9,328<br>15,232<br>19,887<br>20,775<br>16,900<br>18,245<br>9,425   | 0.22<br>0.20<br>0.20<br>0.20<br>0.21<br>0.35<br>0.46<br>0.48<br>0.39<br>0.42<br>0.22<br>0.22<br>0.22<br>0.22<br>0.23<br>0.26   | 165<br>166<br>167<br>168<br>169<br>170<br>171<br>172<br>173<br>174<br>175<br>176<br>177   | 5,723<br>5,993<br>6,263<br>6,533<br>6,803<br>8,927<br>4,775<br>2,113<br>3,874<br>3,874<br>2,113<br>4,191<br>5,146  | 0.13<br>0.14<br>0.14<br>0.15<br>0.16<br>0.20<br>0.11<br>0.05<br>0.09<br>0.09   | 285<br>286<br>287<br>288<br>289<br>290<br>291<br>292<br>293<br>294  | 7,180<br>5,778<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>5,512<br>5,436<br>4,940   | 0.16<br>0.13<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.13<br>0.12<br>0.11   | 404<br>405<br>406<br>407<br>408<br>409<br>410<br>411  | 9,528<br>9,688<br>8,450<br>8,450<br>9,108<br>9,253<br>9,252<br>9,279  |  |   |  |   |  |  |   |   |  |  |   |  |  |   |   |   |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |   |  |  |   |  |   |   |  |  |   |  |  |   |  |   |  |  |   |  |   |  |  |   |  |   |  |  |  |   |  |   |  |  |   |   |   |   |  |  |   |  |   |   |  |   |  |  |  |  |   |  |  |   |  |  |  |   |   |   |  |   |   |  |  |   |  |   |   |    |   |  |   |  |  |  |   |  |  |   |    |   |  |   |   |  |  |  |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |  |  |  |  |  |   |   |  |  |   |   |  |  |   |  |  |                                 |   |                              |                          |                         |  |  |  |  |   |                                      |                          |                                  |                              |                   |                |  |                                    |  |  |   |                      |            |                |      |     |  |    |                |  |                          |                         |      |  |       |  |  |       |   |       |                                      |            |                |  |  |         |      |     |                  |  |         |                      |     |  |      |            |                |      |            |                  |    |        |      |  |       |      |     |       |      |       |         |   |                  |  |            |                |      |            |                |      |  |  |   |                  |      |            |                |      |            |                |      |  |  |    |        |      |     |       |      |     |       |      |  |  |    |                 |      |            |                |      |            |                |      |  |  |  |                        |      |            |                |      |            |                |      |  |  |    |                  |      |            |                |      |            |                |      |  |  |    |       |      |     |       |      |     |       |      |  |  |    |                |      |            |                |      |            |                |      |  |  |    |                |      |            |                |      |            |                |      |  |  |    |                |      |            |       |      |            |                |      |  |  |  |       |      |     |                |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |       |      |     |       |      |     |       |      |  |  |                                      |                |      |            |                |      |            |                |      |  |  |                                      |                |      |            |                |      |            |                |      |  |  |                      |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |     |        |      |            |                |      |            |                 |      |  |  |  |                |      |            |                |      |            |                  |      |  |  |       |                |      |     |       |      |     |        |      |  |  |       |                                  |      |            |                |      |            |                |      |  |  |       |  |      |            |                |      |            |                |      |  |  |       |  |      |            |                |      |            |                |      |  |  |       |   |      |     |       |      |     |       |      |  |  |       |   |      |            |                |      |            |                  |      |  |  |       |   |                      |            |                |      |            |                |      |  |  |       |  |                              |  |       |      |     |       |      |  |  |     |  |  |     |                |      |            |        |      |  |  |                |   |                                      |                          |       |      |            |                  |      |  |  |
| 46       8         47       8         48       8         49       9         50       1         51       1         52       2         53       1         54       1         55       6         57       9         58       1         59       1         60       1         61       1         62       1         63       1         64       9         65       1         66       1         67       9         68       1         70       5         71       5         72       2         73       2         74       2         75       2         76       5         77       2         80       2         81       2         82       3         84       2         85       5         86       8         87       6         88 <td< td=""><td>8,775<br/>8,775<br/>9,328<br/>15,232<br/>19,887<br/>20,775<br/>16,900<br/>18,245<br/>9,425<br/>9,425</td><td>0.20<br/>0.20<br/>0.20<br/>0.21<br/>0.35<br/>0.46<br/>0.48<br/>0.39<br/>0.42<br/>0.22<br/>0.22<br/>0.22<br/>0.22<br/>0.23<br/>0.26</td><td>166<br/>167<br/>168<br/>169<br/>170<br/>171<br/>172<br/>173<br/>174<br/>175<br/>176<br/>177</td><td>5,993<br/>6,263<br/>6,533<br/>6,803<br/>8,927<br/>4,775<br/>2,113<br/>3,874<br/>3,874<br/>2,113<br/>4,191<br/>5,146</td><td>0.14<br/>0.15<br/>0.16<br/>0.20<br/>0.11<br/>0.05<br/>0.09<br/>0.09</td><td>286<br/>287<br/>288<br/>289<br/>290<br/>291<br/>292<br/>293<br/>294</td><td>5,778<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>4,902<br/>5,512<br/>5,436<br/>4,940</td><td>0.13<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.13<br/>0.12<br/>0.11</td><td>405<br/>406<br/>407<br/>408<br/>409<br/>410<br/>411<br/>412</td><td>9,688<br/>8,450<br/>9,108<br/>9,253<br/>9,252<br/>9,279</td></td<>   | 8,775<br>8,775<br>9,328<br>15,232<br>19,887<br>20,775<br>16,900<br>18,245<br>9,425<br>9,425   | 0.20<br>0.20<br>0.20<br>0.21<br>0.35<br>0.46<br>0.48<br>0.39<br>0.42<br>0.22<br>0.22<br>0.22<br>0.22<br>0.23<br>0.26   | 166<br>167<br>168<br>169<br>170<br>171<br>172<br>173<br>174<br>175<br>176<br>177  | 5,993<br>6,263<br>6,533<br>6,803<br>8,927<br>4,775<br>2,113<br>3,874<br>3,874<br>2,113<br>4,191<br>5,146   | 0.14<br>0.15<br>0.16<br>0.20<br>0.11<br>0.05<br>0.09<br>0.09   | 286<br>287<br>288<br>289<br>290<br>291<br>292<br>293<br>294   | 5,778<br>4,902<br>4,902<br>4,902<br>4,902<br>4,902<br>5,512<br>5,436<br>4,940  | 0.13<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.13<br>0.12<br>0.11   | 405<br>406<br>407<br>408<br>409<br>410<br>411<br>412  | 9,688<br>8,450<br>9,108<br>9,253<br>9,252<br>9,279  |  |   |  |   |  |  |   |   |  |  |   |  |  |   |   |   |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |   |  |  |   |  |   |   |  |  |   |  |  |   |  |   |  |  |   |  |   |  |  |   |  |   |  |  |  |   |  |   |  |  |   |   |   |   |  |  |   |  |   |   |  |   |  |  |  |  |   |  |  |   |  |  |  |   |   |   |  |   |   |  |  |   |  |   |   |    |   |  |   |  |  |  |   |  |  |   |    |   |  |   |   |  |  |  |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |  |  |  |  |  |   |   |  |  |   |   |  |  |   |  |  |                                 |   |                              |                          |                         |  |  |  |  |   |                                      |                          |                                  |                              |                   |                |  |                                    |  |  |   |                      |            |                |      |     |  |    |                |  |                          |                         |      |  |       |  |  |       |   |       |                                      |            |                |  |  |         |      |     |                  |  |         |                      |     |  |      |            |                |      |            |                  |    |        |      |  |       |      |     |       |      |       |         |   |                  |  |            |                |      |            |                |      |  |  |   |                  |      |            |                |      |            |                |      |  |  |    |        |      |     |       |      |     |       |      |  |  |    |                 |      |            |                |      |            |                |      |  |  |  |                        |      |            |                |      |            |                |      |  |  |    |                  |      |            |                |      |            |                |      |  |  |    |       |      |     |       |      |     |       |      |  |  |    |                |      |            |                |      |            |                |      |  |  |    |                |      |            |                |      |            |                |      |  |  |    |                |      |            |       |      |            |                |      |  |  |  |       |      |     |                |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |       |      |     |       |      |     |       |      |  |  |                                      |                |      |            |                |      |            |                |      |  |  |                                      |                |      |            |                |      |            |                |      |  |  |                      |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |     |        |      |            |                |      |            |                 |      |  |  |  |                |      |            |                |      |            |                  |      |  |  |       |                |      |     |       |      |     |        |      |  |  |       |                                  |      |            |                |      |            |                |      |  |  |       |  |      |            |                |      |            |                |      |  |  |       |  |      |            |                |      |            |                |      |  |  |       |   |      |     |       |      |     |       |      |  |  |       |   |      |            |                |      |            |                  |      |  |  |       |   |                      |            |                |      |            |                |      |  |  |       |  |                              |  |       |      |     |       |      |  |  |     |  |  |     |                |      |            |        |      |  |  |                |   |                                      |                          |       |      |            |                  |      |  |  |
| 48       8         49       9         50       1         51       1         52       2         53       1         54       1         55       9         56       9         57       9         58       1         60       1         61       1         62       1         63       1         64       9         65       1         66       1         70       9         68       1         70       9         71       9         72       2         73       7         74       2         75       7         78       9         80       2         81       2         83       2         84       2         85       5         86       8         87       6         88       6         89       5         90       5         91 <td< td=""><td>8,775<br/>9,328<br/>15,232<br/>19,887<br/>20,775<br/>16,900<br/>18,245<br/>9,425<br/>9,425</td><td>0.20<br/>0.21<br/>0.35<br/>0.46<br/>0.48<br/>0.39<br/>0.42<br/>0.22<br/>0.22<br/>0.22<br/>0.22<br/>0.29<br/>0.23<br/>0.26</td><td>168<br/>169<br/>170<br/>171<br/>172<br/>173<br/>174<br/>175<br/>176<br/>177</td><td>6,533<br/>6,803<br/>8,927<br/>4,775<br/>2,113<br/>3,874<br/>3,874<br/>2,113<br/>4,191<br/>5,146</td><td>0.15<br/>0.16<br/>0.20<br/>0.11<br/>0.05<br/>0.09<br/>0.09</td><td>288<br/>289<br/>290<br/>291<br/>292<br/>293<br/>294</td><td>4,902<br/>4,902<br/>4,902<br/>4,902<br/>5,512<br/>5,436<br/>4,940</td><td>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.13<br/>0.12<br/>0.11</td><td>407<br/>408<br/>409<br/>410<br/>411<br/>412</td><td>8,450<br/>9,108<br/>9,253<br/>9,252<br/>9,279</td></td<>   | 8,775<br>9,328<br>15,232<br>19,887<br>20,775<br>16,900<br>18,245<br>9,425<br>9,425  | 0.20<br>0.21<br>0.35<br>0.46<br>0.48<br>0.39<br>0.42<br>0.22<br>0.22<br>0.22<br>0.22<br>0.29<br>0.23<br>0.26   | 168<br>169<br>170<br>171<br>172<br>173<br>174<br>175<br>176<br>177  | 6,533<br>6,803<br>8,927<br>4,775<br>2,113<br>3,874<br>3,874<br>2,113<br>4,191<br>5,146   | 0.15<br>0.16<br>0.20<br>0.11<br>0.05<br>0.09<br>0.09   | 288<br>289<br>290<br>291<br>292<br>293<br>294   | 4,902<br>4,902<br>4,902<br>4,902<br>5,512<br>5,436<br>4,940  | 0.11<br>0.11<br>0.11<br>0.11<br>0.13<br>0.12<br>0.11   | 407<br>408<br>409<br>410<br>411<br>412  | 8,450<br>9,108<br>9,253<br>9,252<br>9,279   |  |   |  |   |  |  |   |   |  |  |   |  |  |   |   |   |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |   |  |  |   |  |   |   |  |  |   |  |  |   |  |   |  |  |   |  |   |  |  |   |  |   |  |  |  |   |  |   |  |  |   |   |   |   |  |  |   |  |   |   |  |   |  |  |  |  |   |  |  |   |  |  |  |   |   |   |  |   |   |  |  |   |  |   |   |    |   |  |   |  |  |  |   |  |  |   |    |   |  |   |   |  |  |  |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |  |  |  |  |  |   |   |  |  |   |   |  |  |   |  |  |                                 |   |                              |                          |                         |  |  |  |  |   |                                      |                          |                                  |                              |                   |                |  |                                    |  |  |   |                      |            |                |      |     |  |    |                |  |                          |                         |      |  |       |  |  |       |   |       |                                      |            |                |  |  |         |      |     |                  |  |         |                      |     |  |      |            |                |      |            |                  |    |        |      |  |       |      |     |       |      |       |         |   |                  |  |            |  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     |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |       |      |     |       |      |     |       |      |  |  |                                      |                |      |            |                |      |            |                |      |  |  |                                      |                |      |            |                |      |            |                |      |  |  |                      |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |     |        |      |            |                |      |            |                 |      |  |  |  |                |      |            |                |      |            |                  |      |  |  |       |                |      |     |       |      |     |        |      |  |  |       |                                  |      |            |                |      |            |                |      |  |  |       |  |      |            |                |      |            |                |      |  |  |       |  |      |            |                |      |            |                |      |  |  |       |   |      |     |       |      |     |       |      |  |  |       |   |      |            |                |      |            |                  |      |  |  |       |   |                      |            |                |      |            |                |      |  |  |       |  |                              |  |       |      |     |       |      |  |  |     |  |  |     |                |      |            |        |      |  |  |                |   |                                      |                          |       |      |            |                  |      |  |  |
| 50         1           51         1           52         2           53         1           54         1           55         5           56         5           57         5           58         1           59         1           60         1           61         1           62         1           63         1           64         3           65         1           66         1           70         5           71         5           72         2           73         2           74         2           75         2           76         5           77         2           78         5           79         2           80         2           81         2           82         2           83         2           84         2           87         6           88         6      88          89         5 <td>15,232<br/>19,887<br/>20,775<br/>16,900<br/>18,245<br/>9,425<br/>9,425</td> <td>0.35<br/>0.46<br/>0.48<br/>0.39<br/>0.42<br/>0.22<br/>0.22<br/>0.22<br/>0.29<br/>0.23<br/>0.26</td> <td>170<br/>171<br/>172<br/>173<br/>174<br/>175<br/>176<br/>177<br/>178</td> <td>8,927<br/>4,775<br/>2,113<br/>3,874<br/>3,874<br/>2,113<br/>4,191<br/>5,146</td> <td>0.20<br/>0.11<br/>0.05<br/>0.09<br/>0.09<br/>0.05</td> <td>290<br/>291<br/>292<br/>293<br/>294</td> <td>4,902<br/>4,902<br/>5,512<br/>5,436<br/>4,940</td> <td>0.11<br/>0.13<br/>0.12<br/>0.11</td> <td>409<br/>410<br/>411<br/>412</td> <td>9,253<br/>9,252<br/>9,279</td>  | 15,232<br>19,887<br>20,775<br>16,900<br>18,245<br>9,425<br>9,425  | 0.35<br>0.46<br>0.48<br>0.39<br>0.42<br>0.22<br>0.22<br>0.22<br>0.29<br>0.23<br>0.26   | 170<br>171<br>172<br>173<br>174<br>175<br>176<br>177<br>178   | 8,927<br>4,775<br>2,113<br>3,874<br>3,874<br>2,113<br>4,191<br>5,146   | 0.20<br>0.11<br>0.05<br>0.09<br>0.09<br>0.05   | 290<br>291<br>292<br>293<br>294   | 4,902<br>4,902<br>5,512<br>5,436<br>4,940  | 0.11<br>0.13<br>0.12<br>0.11   | 409<br>410<br>411<br>412  | 9,253<br>9,252<br>9,279   |  |   |  |   |  |  |   |   |  |  |   |  |  |   |   |   |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |   |  |  |   |  |   |   |  |  |   |  |  |   |  |   |  |  |   |  |   |  |  |   |  |   |  |  |  |   |  |   |  |  |   |   |   |   |  |  |   |  |   |   |  |   |  |  |  |  |   |  |  |   |  |  |  |   |   |   |  |   |   |  |  |   |  |   |   |    |   |  |   |  |  |  |   |  |  |   |    |   |  |   |   |  |  |  |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |  |  |  |  |  |   |   |  |  |   |   |  |  |   |  |  |                                 |   |                              |                          |                         |  |  |  |  |   |                                      |                          |                                  |                              |                   |                |  |                                    |  |  |   |                      |            |                |      |     |  |    |                |  |                          |                         |      |  |       |  |  |       |   |       |                                      |            |                |  |  |         |      |     |                  |  |         |                      |     |  |      |            |                |      |            |                  |    |        |      |  |       |      |     |       |      |       |         |   |                  |  |            |                |      |            |                |      |  |  |   |                  |      |            |                |      |            |                |      |  |  |    |        |      |     |       |      |     |       |      |  |  |    |                 |      |            |                |      |            |                |      |  |  |  |                        |      |            |                |      |            |                |      |  |  |    |                  |      |            |                |      |            |                |      |  |  |    |       |      |     |       |      |     |       |      |  |  |    |                |      |            |                |      |            |                |      |  |  |    |                |      |            |                |      |            |                |      |  |  |    |                |      |            |       |      |            |                |      |  |  |  |       |      |     |                |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |       |      |     |       |      |     |       |      |  |  |                                      |                |      |            |                |      |            |                |      |  |  |                                      |                |      |            |                |      |            |                |      |  |  |                      |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |     |        |      |            |                |      |            |                 |      |  |  |  |                |      |            |                |      |            |                  |      |  |  |       |                |      |     |       |      |     |        |      |  |  |       |                                  |      |            |                |      |            |                |      |  |  |       |  |      |            |                |      |            |                |      |  |  |       |  |      |            |                |      |            |                |      |  |  |       |   |      |     |       |      |     |       |      |  |  |       |   |      |            |                |      |            |                  |      |  |  |       |   |                      |            |                |      |            |                |      |  |  |       |  |                              |  |       |      |     |       |      |  |  |     |  |  |     |                |      |            |        |      |  |  |                |   |                                      |                          |       |      |            |                  |      |  |  |
| 51         1           52         2           53         1           54         1           55         9           56         9           57         9           58         1           60         1           61         1           62         1           63         1           64         9           65         1           66         1           67         9           71         5           72         2           73         7           74         2           75         4           76         5           77         4           79         2           80         2           81         4           82         8           84         2           88         6           87         6           88         6           87         6           88         6           89         5   90          91         5 </td <td>19,887<br/>20,775<br/>16,900<br/>18,245<br/>9,425<br/>9,425</td> <td>0.46<br/>0.48<br/>0.39<br/>0.42<br/>0.22<br/>0.22<br/>0.22<br/>0.29<br/>0.23<br/>0.26</td> <td>171<br/>172<br/>173<br/>174<br/>175<br/>176<br/>177<br/>178</td> <td>4,775<br/>2,113<br/>3,874<br/>3,874<br/>2,113<br/>4,191<br/>5,146</td> <td>0.11<br/>0.05<br/>0.09<br/>0.09<br/>0.05</td> <td>291<br/>292<br/>293<br/>294</td> <td>4,902<br/>5,512<br/>5,436<br/>4,940</td> <td>0.11<br/>0.13<br/>0.12<br/>0.11</td> <td>410<br/>411<br/>412</td> <td>9,252<br/>9,279</td>   | 19,887<br>20,775<br>16,900<br>18,245<br>9,425<br>9,425  | 0.46<br>0.48<br>0.39<br>0.42<br>0.22<br>0.22<br>0.22<br>0.29<br>0.23<br>0.26   | 171<br>172<br>173<br>174<br>175<br>176<br>177<br>178  | 4,775<br>2,113<br>3,874<br>3,874<br>2,113<br>4,191<br>5,146  | 0.11<br>0.05<br>0.09<br>0.09<br>0.05   | 291<br>292<br>293<br>294  | 4,902<br>5,512<br>5,436<br>4,940   | 0.11<br>0.13<br>0.12<br>0.11   | 410<br>411<br>412   | 9,252<br>9,279  |  |   |  |   |  |  |   |   |  |  |   |  |  |   |   |   |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |   |  |  |   |  |   |   |  |  |   |  |  |   |  |   |  |  |   |  |   |  |  |   |  |   |  |  |  |   |  |   |  |  |   |   |   |   |  |  |   |  |   |   |  |   |  |  |  |  |   |  |  |   |  |  |  |   |   |   |  |   |   |  |  |   |  |   |   |    |   |  |   |  |  |  |   |  |  |   |    |   |  |   |   |  |  |  |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |  |  |  |  |  |   |   |  |  |   |   |  |  |   |  |  |                                 |   |                              |                          |                         |  |  |  |  |   |                                      |                          |                                  |                              |                   |                |  |                                    |  |  |   |                      |            |                |      |     |  |    |                |  |                          |                         |      |  |       |  |  |       |   |       |                                      |            |                |  |  |         |      |     |                  |  |         |                      |     |  |      |            |                |      |            |                  |    |        |      |  |       |      |     |       |      |       |         |   |                  |  |            |                |      |            |                |      |  |  |   |                  |      |            |                |      |            |                |      |  |  |    |        |      |     |       |      |     |       |      |  |  |    |                 |      |            |                |      |            |                |      |  |  |  |                        |      |            |                |      |            |                |      |  |  |    |                  |      |            |                |      |            |                |      |  |  |    |       |      |     |       |      |     |       |      |  |  |    |                |      |            |                |      |            |                |      |  |  |    |                |      |            |                |      |            |                |      |  |  |    |                |      |            |       |      |            |                |      |  |  |  |       |      |     |                |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |       |      |     |       |      |     |       |      |  |  |                                      |                |      |            |                |      |            |                |      |  |  |                                      |                |      |            |                |      |            |                |      |  |  |                      |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |     |        |      |            |                |      |            |                 |      |  |  |  |                |      |            |                |      |            |                  |      |  |  |       |                |      |     |       |      |     |        |      |  |  |       |                                  |      |            |                |      |            |                |      |  |  |       |  |      |            |                |      |            |                |      |  |  |       |  |      |            |                |      |            |                |      |  |  |       |   |      |     |       |      |     |       |      |  |  |       |   |      |            |                |      |            |                  |      |  |  |       |   |                      |            |                |      |            |                |      |  |  |       |  |                              |  |       |      |     |       |      |  |  |     |  |  |     |                |      |            |        |      |  |  |                |   |                                      |                          |       |      |            |                  |      |  |  |
| 53       1         54       1         55       5         56       5         57       5         58       1         59       1         60       1         61       1         62       1         63       1         64       5         65       1         66       1         67       5         71       5         72       2         73       2         74       2         75       2         76       5         77       2         80       2         81       2         83       2         84       2         83       6         87       6         88       6         87       6         89       5         90       5         91       5   | 16,900<br>18,245<br>9,425<br>9,425  | 0.39<br>0.42<br>0.22<br>0.22<br>0.22<br>0.29<br>0.23<br>0.26   | 173<br>174<br>175<br>176<br>177<br>178  | 3,874<br>3,874<br>2,113<br>4,191<br>5,146  | 0.09<br>0.09<br>0.05   | 293<br>294  | 5,436<br>4,940   | 0.12   | 412   |   |  |   |  |   |  |  |   |   |  |  |   |  |  |   |   |   |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |   |  |  |   |  |   |   |  |  |   |  |  |   |  |   |  |  |   |  |   |  |  |   |  |   |  |  |  |   |  |   |  |  |   |   |   |   |  |  |   |  |   |   |  |   |  |  |  |  |   |  |  |   |  |  |  |   |   |   |  |   |   |  |  |   |  |   |   |    |   |  |   |  |  |  |   |  |  |   |    |   |  |   |   |  |  |  |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |  |  |  |  |  |   |   |  |  |   |   |  |  |   |  |  |                                 |   |                              |                          |                         |  |  |  |  |   |                                      |                          |                                  |                              |                   |                |  |                                    |  |  |   |                      |            |                |      |     |  |    |                |  |                          |                         |      |  |       |  |  |       |   |       |                                      |            |                |  |  |         |      |     |                  |  |         |                      |     |  |      |            |                |      |            |                  |    |        |      |  |       |      |     |       |      |       |         |   |                  |  |            |                |      |            |                |      |  |  |   |                  |      |            |                |      |            |                |      |  |  |    |        |      |     |       |      |     |       |      |  |  |    |                 |      |            |                |      |            |                |      |  |  |  |                        |      |            |                |      |            |                |      |  |  |    |                  |      |            |                |      |            |                |      |  |  |    |       |      |     |       |      |     |       |      |  |  |    |                |      |            |                |      |            |                |      |  |  |    |                |      |            |                |      |            |                |      |  |  |    |                |      |            |       |      |            |                |      |  |  |  |       |      |     |                |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |       |      |     |       |      |     |       |      |  |  |                                      |                |      |            |                |      |            |                |      |  |  |                                      |                |      |            |                |      |            |                |      |  |  |                      |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |     |        |      |            |                |      |            |                 |      |  |  |  |                |      |            |                |      |            |                  |      |  |  |       |                |      |     |       |      |     |        |      |  |  |       |                                  |      |            |                |      |            |                |      |  |  |       |  |      |            |                |      |            |                |      |  |  |       |  |      |            |                |      |            |                |      |  |  |       |   |      |     |       |      |     |       |      |  |  |       |   |      |            |                |      |            |                  |      |  |  |       |   |                      |            |                |      |            |                |      |  |  |       |  |                              |  |       |      |     |       |      |  |  |     |  |  |     |                |      |            |        |      |  |  |                |   |                                      |                          |       |      |            |                  |      |  |  |
| 55   | 9,425<br>9,425  | 0.22<br>0.22<br>0.22<br>0.29<br>0.23<br>0.26   | 175<br>176<br>177<br>178  | 2,113<br>4,191<br>5,146  | 0.05   |   | 4,940  |  |   | 8,452   |  |   |  |   |  |  |   |   |  |  |   |  |  |   |   |   |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |   |  |  |   |  |   |   |  |  |   |  |  |   |  |   |  |  |   |  |   |  |  |   |  |   |  |  |  |   |  |   |  |  |   |   |   |   |  |  |   |  |   |   |  |   |  |  |  |  |   |  |  |   |  |  |  |   |   |   |  |   |   |  |  |   |  |   |   |    |   |  |   |  |  |  |   |  |  |   |    |   |  |   |   |  |  |  |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |  |  |  |  |  |   |   |  |  |   |   |  |  |   |  |  |                                 |   |                              |                          |                         |  |  |  |  |   |                                      |                          |                                  |                              |                   |                |  |                                    |  |  |   |                      |            |                |      |     |  |    |                |  |                          |                         |      |  |       |  |  |       |   |       |                                      |            |                |  |  |         |      |     |                  |  |         |                      |     |  |      |            |                |      |            |                  |    |        |      |  |       |      |     |       |      |       |         |   |                  |  |            |                |      |            |                |      |  |  |   |                  |      |            |                |      |            |                |      |  |  |    |        |      |     |       |      |     |       |      |  |  |    |                 |      |            |                |      |            |                |      |  |  |  |                        |      |            |                |      |            |                |      |  |  |    |                  |      |            |                |      |            |                |      |  |  |    |       |      |     |       |      |     |       |      |  |  |    |                |      |            |                |      |            |                |      |  |  |    |                |      |            |                |      |            |                |      |  |  |    |                |      |            |       |      |            |                |      |  |  |  |       |      |     |                |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |       |      |     |       |      |     |       |      |  |  |                                      |                |      |            |                |      |            |                |      |  |  |                                      |                |      |            |                |      |            |                |      |  |  |                      |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |     |        |      |            |                |      |            |                 |      |  |  |  |                |      |            |                |      |            |                  |      |  |  |       |                |      |     |       |      |     |        |      |  |  |       |                                  |      |            |                |      |            |                |      |  |  |       |  |      |            |                |      |            |                |      |  |  |       |  |      |            |                |      |            |                |      |  |  |       |   |      |     |       |      |     |       |      |  |  |       |   |      |            |                |      |            |                  |      |  |  |       |   |                      |            |                |      |            |                |      |  |  |       |  |                              |  |       |      |     |       |      |  |  |     |  |  |     |                |      |            |        |      |  |  |                |   |                                      |                          |       |      |            |                  |      |  |  |
| 56       9         57       9         58       1         59       1         60       1         61       1         62       1         63       1         64       9         65       1         66       1         70       9         68       1         70       9         71       9         72       2         73       2         74       2         75       2         76       5         77       4         78       5         80       2         81       4         82       4         83       2         84       2         85       5         86       8         87       6         88       6         89       5         90       5         91       5  | 9,425   | 0.22<br>0.22<br>0.29<br>0.23<br>0.26   | 177<br>178  | 4,191<br>5,146   |  |   | 1 4,340  | 0.11   | 413   | 74,184<br>143,24  |  |   |  |   |  |  |   |   |  |  |   |  |  |   |   |   |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |   |  |  |   |  |   |   |  |  |   |  |  |   |  |   |  |  |   |  |   |  |  |   |  |   |  |  |  |   |  |   |  |  |   |   |   |   |  |  |   |  |   |   |  |   |  |  |  |  |   |  |  |   |  |  |  |   |   |   |  |   |   |  |  |   |  |   |   |    |   |  |   |  |  |  |   |  |  |   |    |   |  |   |   |  |  |  |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |  |  |  |  |  |   |   |  |  |   |   |  |  |   |  |  |                                 |   |                              |                          |                         |  |  |  |  |   |                                      |                          |                                  |                              |                   |                |  |                                    |  |  |   |                      |            |                |      |     |  |    |                |  |                          |                         |      |  |       |  |  |       |   |       |                                      |            |                |  |  |         |      |     |                  |  |         |                      |     |  |      |            |                |      |            |                  |    |        |      |  |       |      |     |       |      |       |         |   |                  |  |            |                |      |            |                |      |  |  |   |                  |      |            |                |      |            |                |      |  |  |    |        |      |     |       |      |     |       |      |  |  |    |                 |      |            |                |      |            |                |      |  |  |  |                        |      |            |                |      |            |                |      |  |  |    |                  |      |            |                |      |            |                |      |  |  |    |       |      |     |       |      |     |       |      |  |  |    |                |      |            |                |      |            |                |      |  |  |    |                |      |            |                |      |            |                |      |  |  |    |                |      |            |       |      |            |                |      |  |  |  |       |      |     |                |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |       |      |     |       |      |     |       |      |  |  |                                      |                |      |            |                |      |            |                |      |  |  |                                      |                |      |            |                |      |            |                |      |  |  |                      |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |     |        |      |            |                |      |            |                 |      |  |  |  |                |      |            |                |      |            |                  |      |  |  |       |                |      |     |       |      |     |        |      |  |  |       |                                  |      |            |                |      |            |                |      |  |  |       |  |      |            |                |      |            |                |      |  |  |       |  |      |            |                |      |            |                |      |  |  |       |   |      |     |       |      |     |       |      |  |  |       |   |      |            |                |      |            |                  |      |  |  |       |   |                      |            |                |      |            |                |      |  |  |       |  |                              |  |       |      |     |       |      |  |  |     |  |  |     |                |      |            |        |      |  |  |                |   |                                      |                          |       |      |            |                  |      |  |  |
| 58       1         59       1         60       1         61       1         62       1         63       1         64       3         65       1         66       1         67       3         68       1         70       5         71       5         72       2         73       2         74       2         75       2         76       5         77       2         78       5         79       2         80       2         81       4         82       4         83       2         84       2         85       5         86       8         87       6         88       6         89       5         90       5         91       5   | × 4 / Γ   | 0.29<br>0.23<br>0.26   | 178   |  | 0.12   | 296<br>297  | 4,940<br>4,940   | 0.11   | 415<br>416  | 56,698<br>67,752  |  |   |  |   |  |  |   |   |  |  |   |  |  |   |   |   |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |   |  |  |   |  |   |   |  |  |   |  |  |   |  |   |  |  |   |  |   |  |  |   |  |   |  |  |  |   |  |   |  |  |   |   |   |   |  |  |   |  |   |   |  |   |  |  |  |  |   |  |  |   |  |  |  |   |   |   |  |   |   |  |  |   |  |   |   |    |   |  |   |  |  |  |   |  |  |   |    |   |  |   |   |  |  |  |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |  |  |  |  |  |   |   |  |  |   |   |  |  |   |  |  |                                 |   |                              |                          |                         |  |  |  |  |   |                                      |                          |                                  |                              |                   |                |  |                                    |  |  |   |                      |            |                |      |     |  |    |                |  |                          |                         |      |  |       |  |  |       |   |       |                                      |            |                |  |  |         |      |     |                  |  |         |                      |     |  |      |            |                |      |            |                  |    |        |      |  |       |      |     |       |      |       |         |   |                  |  |            |                |      |            |                |      |  |  |   |                  |      |            |                |      |            |                |      |  |  |    |        |      |     |       |      |     |       |      |  |  |    |                 |      |            |                |      |            |                |      |  |  |  |                        |      |            |                |      |            |                |      |  |  |    |                  |      |            |                |      |            |                |      |  |  |    |       |      |     |       |      |     |       |      |  |  |    |                |      |            |                |      |            |                |      |  |  |    |                |      |            |                |      |            |                |      |  |  |    |                |      |            |       |      |            |                |      |  |  |  |       |      |     |                |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |       |      |     |       |      |     |       |      |  |  |                                      |                |      |            |                |      |            |                |      |  |  |                                      |                |      |            |                |      |            |                |      |  |  |                      |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |     |        |      |            |                |      |            |                 |      |  |  |  |                |      |            |                |      |            |                  |      |  |  |       |                |      |     |       |      |     |        |      |  |  |       |                                  |      |            |                |      |            |                |      |  |  |       |  |      |            |                |      |            |                |      |  |  |       |  |      |            |                |      |            |                |      |  |  |       |   |      |     |       |      |     |       |      |  |  |       |   |      |            |                |      |            |                  |      |  |  |       |   |                      |            |                |      |            |                |      |  |  |       |  |                              |  |       |      |     |       |      |  |  |     |  |  |     |                |      |            |        |      |  |  |                |   |                                      |                          |       |      |            |                  |      |  |  |
| 60   | 12,471  | 0.26   |   | 4,560  | 0.10   | 298   | 4,940  | 0.11   | Total   | 3,043,8   |  |   |  |   |  |  |   |   |  |  |   |  |  |   |   |   |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |   |  |  |   |  |   |   |  |  |   |  |  |   |  |   |  |  |   |  |   |  |  |   |  |   |  |  |  |   |  |   |  |  |   |   |   |   |  |  |   |  |   |   |  |   |  |  |  |  |   |  |  |   |  |  |  |   |   |   |  |   |   |  |  |   |  |   |   |    |   |  |   |  |  |  |   |  |  |   |    |   |  |   |   |  |  |  |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |  |  |  |  |  |   |   |  |  |   |   |  |  |   |  |  |                                 |   |                              |                          |                         |  |  |  |  |   |                                      |                          |                                  |                              |                   |                |  |                                    |  |  |   |                      |            |                |      |     |  |    |                |  |                          |                         |      |  |       |  |  |       |   |       |                                      |            |                |  |  |         |      |     |                  |  |         |                      |     |  |      |            |                |      |            |                  |    |        |      |  |       |      |     |       |      |       |         |   |                  |  |            |                |      |            |                |      |  |  |   |                  |      |            |                |      |            |                |      |  |  |    |        |      |     |       |      |     |       |      |  |  |    |                 |      |            |                |      |            |                |      |  |  |  |                        |      |            |                |      |            |                |      |  |  |    |                  |      |            |                |      |            |                |      |  |  |    |       |      |     |       |      |     |       |      |  |  |    |                |      |            |                |      |            |                |      |  |  |    |                |      |            |                |      |            |                |      |  |  |    |                |      |            |       |      |            |                |      |  |  |  |       |      |     |                |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |       |      |     |       |      |     |       |      |  |  |                                      |                |      |            |                |      |            |                |      |  |  |                                      |                |      |            |                |      |            |                |      |  |  |                      |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |     |        |      |            |                |      |            |                 |      |  |  |  |                |      |            |                |      |            |                  |      |  |  |       |                |      |     |       |      |     |        |      |  |  |       |                                  |      |            |                |      |            |                |      |  |  |       |  |      |            |                |      |            |                |      |  |  |       |  |      |            |                |      |            |                |      |  |  |       |   |      |     |       |      |     |       |      |  |  |       |   |      |            |                |      |            |                  |      |  |  |       |   |                      |            |                |      |            |                |      |  |  |       |  |                              |  |       |      |     |       |      |  |  |     |  |  |     |                |      |            |        |      |  |  |                |   |                                      |                          |       |      |            |                  |      |  |  |
| 62 1<br>63 1<br>64 5<br>65 1<br>66 1<br>67 5<br>68 1<br>70 5<br>71 5<br>72 4<br>73 2<br>74 2<br>73 2<br>74 2<br>75 76 5<br>77 4<br>80 2<br>81 4<br>82 4<br>83 2<br>84 2<br>85 86 8<br>87 88 88 89 5<br>90 5  | 10,212<br>11,236  |  | 179<br>180  | 4,560<br>4,560   | 0.10   | 299<br>300  | 4,940<br>4,940   | 0.11   |   |   |  |   |  |   |  |  |   |   |  |  |   |  |  |   |   |   |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |   |  |  |   |  |   |   |  |  |   |  |  |   |  |   |  |  |   |  |   |  |  |   |  |   |  |  |  |   |  |   |  |  |   |   |   |   |  |  |   |  |   |   |  |   |  |  |  |  |   |  |  |   |  |  |  |   |   |   |  |   |   |  |  |   |  |   |   |    |   |  |   |  |  |  |   |  |  |   |    |   |  |   |   |  |  |  |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |  |  |  |  |  |   |   |  |  |   |   |  |  |   |  |  |                                 |   |                              |                          |                         |  |  |  |  |   |                                      |                          |                                  |                              |                   |                |  |                                    |  |  |   |                      |            |                |      |     |  |    |                |  |                          |                         |      |  |       |  |  |       |   |       |                                      |            |                |  |  |         |      |     |                  |  |         |                      |     |  |      |            |                |      |            |                  |    |        |      |  |       |      |     |       |      |       |         |   |                  |  |            |                |      |            |                |      |  |  |   |                  |      |            |                |      |            |                |      |  |  |    |        |      |     |       |      |     |       |      |  |  |    |                 |      |            |                |      |            |                |      |  |  |  |                        |      |            |                |      |            |                |      |  |  |    |                  |      |            |                |      |            |                |      |  |  |    |       |      |     |       |      |     |       |      |  |  |    |                |      |            |                |      |            |                |      |  |  |    |                |      |            |                |      |            |                |      |  |  |    |                |      |            |       |      |            |                |      |  |  |  |       |      |     |                |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |       |      |     |       |      |     |       |      |  |  |                                      |                |      |            |                |      |            |                |      |  |  |                                      |                |      |            |                |      |            |                |      |  |  |                      |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |     |        |      |            |                |      |            |                 |      |  |  |  |                |      |            |                |      |            |                  |      |  |  |       |                |      |     |       |      |     |        |      |  |  |       |                                  |      |            |                |      |            |                |      |  |  |       |  |      |            |                |      |            |                |      |  |  |       |  |      |            |                |      |            |                |      |  |  |       |   |      |     |       |      |     |       |      |  |  |       |   |      |            |                |      |            |                  |      |  |  |       |   |                      |            |                |      |            |                |      |  |  |       |  |                              |  |       |      |     |       |      |  |  |     |  |  |     |                |      |            |        |      |  |  |                |   |                                      |                          |       |      |            |                  |      |  |  |
| 63 1<br>64 9<br>65 1<br>66 1<br>67 9<br>68 1<br>70 5<br>71 5<br>72 7<br>73 2<br>74 2<br>75 76 5<br>77 2<br>80 2<br>81 2<br>82 4<br>83 2<br>84 2<br>85 86 88<br>87 88<br>88 89 5<br>90 5  | 17,155<br>17,162  | 0.39   | 181<br>182  | 4,560<br>4,560   | 0.10   | 301<br>302  | 4,940<br>7,375   | 0.11   |   |   |  |   |  |   |  |  |   |   |  |  |   |  |  |   |   |   |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |   |  |  |   |  |   |   |  |  |   |  |  |   |  |   |  |  |   |  |   |  |  |   |  |   |  |  |  |   |  |   |  |  |   |   |   |   |  |  |   |  |   |   |  |   |  |  |  |  |   |  |  |   |  |  |  |   |   |   |  |   |   |  |  |   |  |   |   |    |   |  |   |  |  |  |   |  |  |   |    |   |  |   |   |  |  |  |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |  |  |  |  |  |   |   |  |  |   |   |  |  |   |  |  |                                 |   |                              |                          |                         |  |  |  |  |   |                                      |                          |                                  |                              |                   |                |  |                                    |  |  |   |                      |            |                |      |     |  |    |                |  |                          |                         |      |  |       |  |  |       |   |       |                                      |            |                |  |  |         |      |     |                  |  |         |                      |     |  |      |            |                |      |            |                  |    |        |      |  |       |      |     |       |      |       |         |   |                  |  |            |                |      |            |                |      |  |  |   |                  |      |            |                |      |            |                |      |  |  |    |        |      |     |       |      |     |       |      |  |  |    |                 |      |            |                |      |            |                |      |  |  |  |                        |      |            |                |      |            |                |      |  |  |    |                  |      |            |                |      |            |                |      |  |  |    |       |      |     |       |      |     |       |      |  |  |    |                |      |            |                |      |            |                |      |  |  |    |                |      |            |                |      |            |                |      |  |  |    |                |      |            |       |      |            |                |      |  |  |  |       |      |     |                |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |       |      |     |       |      |     |       |      |  |  |                                      |                |      |            |                |      |            |                |      |  |  |                                      |                |      |            |                |      |            |                |      |  |  |                      |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |     |        |      |            |                |      |            |                 |      |  |  |  |                |      |            |                |      |            |                  |      |  |  |       |                |      |     |       |      |     |        |      |  |  |       |                                  |      |            |                |      |            |                |      |  |  |       |  |      |            |                |      |            |                |      |  |  |       |  |      |            |                |      |            |                |      |  |  |       |   |      |     |       |      |     |       |      |  |  |       |   |      |            |                |      |            |                  |      |  |  |       |   |                      |            |                |      |            |                |      |  |  |       |  |                              |  |       |      |     |       |      |  |  |     |  |  |     |                |      |            |        |      |  |  |                |   |                                      |                          |       |      |            |                  |      |  |  |
| 65   | 11,417  | 0.26   | 183   | 5,266  | 0.12   | 303   | 4,845  | 0.11   |   |   |  |   |  |   |  |  |   |   |  |  |   |  |  |   |   |   |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |   |  |  |   |  |   |   |  |  |   |  |  |   |  |   |  |  |   |  |   |  |  |   |  |   |  |  |  |   |  |   |  |  |   |   |   |   |  |  |   |  |   |   |  |   |  |  |  |  |   |  |  |   |  |  |  |   |   |   |  |   |   |  |  |   |  |   |   |    |   |  |   |  |  |  |   |  |  |   |    |   |  |   |   |  |  |  |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |  |  |  |  |  |   |   |  |  |   |   |  |  |   |  |  |                                 |   |                              |                          |                         |  |  |  |  |   |                                      |                          |                                  |                              |                   |                |  |                                    |  |  |   |                      |            |                |      |     |  |    |                |  |                          |                         |      |  |       |  |  |       |   |       |                                      |            |                |  |  |         |      |     |                  |  |         |                      |     |  |      |            |                |      |            |                  |    |        |      |  |       |      |     |       |      |       |         |   |                  |  |            |                |      |            |                |      |  |  |   |                  |      |            |                |      |            |                |      |  |  |    |        |      |     |       |      |     |       |      |  |  |    |                 |      |            |                |      |            |                |      |  |  |  |                        |      |            |                |      |            |                |      |  |  |    |                  |      |            |                |      |            |                |      |  |  |    |       |      |     |       |      |     |       |      |  |  |    |                |      |            |                |      |            |                |      |  |  |    |                |      |            |                |      |            |                |      |  |  |    |                |      |            |       |      |            |                |      |  |  |  |       |      |     |                |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |       |      |     |       |      |     |       |      |  |  |                                      |                |      |            |                |      |            |                |      |  |  |                                      |                |      |            |                |      |            |                |      |  |  |                      |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |     |        |      |            |                |      |            |                 |      |  |  |  |                |      |            |                |      |            |                  |      |  |  |       |                |      |     |       |      |     |        |      |  |  |       |                                  |      |            |                |      |            |                |      |  |  |       |  |      |            |                |      |            |                |      |  |  |       |  |      |            |                |      |            |                |      |  |  |       |   |      |     |       |      |     |       |      |  |  |       |   |      |            |                |      |            |                  |      |  |  |       |   |                      |            |                |      |            |                |      |  |  |       |  |                              |  |       |      |     |       |      |  |  |     |  |  |     |                |      |            |        |      |  |  |                |   |                                      |                          |       |      |            |                  |      |  |  |
| 67   | 9,230<br>11,198   | 0.21   | 184<br>185  | 4,845<br>2,990   | 0.11   | 304<br>305  | 2,990<br>2,990   | 0.07   |   |   |  |   |  |   |  |  |   |   |  |  |   |  |  |   |   |   |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |   |  |  |   |  |   |   |  |  |   |  |  |   |  |   |  |  |   |  |   |  |  |   |  |   |  |  |  |   |  |   |  |  |   |   |   |   |  |  |   |  |   |   |  |   |  |  |  |  |   |  |  |   |  |  |  |   |   |   |  |   |   |  |  |   |  |   |   |    |   |  |   |  |  |  |   |  |  |   |    |   |  |   |   |  |  |  |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |  |  |  |  |  |   |   |  |  |   |   |  |  |   |  |  |                                 |   |                              |                          |                         |  |  |  |  |   |                                      |                          |                                  |                              |                   |                |  |                                    |  |  |   |                      |            |                |      |     |  |    |                |  |                          |                         |      |  |       |  |  |       |   |       |                                      |            |                |  |  |         |      |     |                  |  |         |                      |     |  |      |            |                |      |            |                  |    |        |      |  |       |      |     |       |      |       |         |   |                  |  |            |                |      |            |                |      |  |  |   |                  |      |            |                |      |            |                |      |  |  |    |        |      |     |       |      |     |       |      |  |  |    |                 |      |            |                |      |            |                |      |  |  |  |                        |      |            |                |      |            |                |      |  |  |    |                  |      |            |                |      |            |                |      |  |  |    |       |      |     |       |      |     |       |      |  |  |    |                |      |            |                |      |            |                |      |  |  |    |                |      |            |                |      |            |                |      |  |  |    |                |      |            |       |      |            |                |      |  |  |  |       |      |     |                |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |       |      |     |       |      |     |       |      |  |  |                                      |                |      |            |                |      |            |                |      |  |  |                                      |                |      |            |                |      |            |                |      |  |  |                      |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |     |        |      |            |                |      |            |                 |      |  |  |  |                |      |            |                |      |            |                  |      |  |  |       |                |      |     |       |      |     |        |      |  |  |       |                                  |      |            |                |      |            |                |      |  |  |       |  |      |            |                |      |            |                |      |  |  |       |  |      |            |                |      |            |                |      |  |  |       |   |      |     |       |      |     |       |      |  |  |       |   |      |            |                |      |            |                  |      |  |  |       |   |                      |            |                |      |            |                |      |  |  |       |  |                              |  |       |      |     |       |      |  |  |     |  |  |     |                |      |            |        |      |  |  |                |   |                                      |                          |       |      |            |                  |      |  |  |
| 68 1<br>69 1<br>70 5<br>71 5<br>72 4<br>73 2<br>74 2<br>75 76 5<br>77 4<br>80 2<br>81 82 4<br>83 2<br>84 2<br>85 5<br>86 8<br>87 6<br>88 6<br>89 5<br>90 5   | <u>13,168</u><br>9,904  | 0.30   | 186<br>187  | 2,990<br>2,990   | 0.07   | 306<br>307  | 4,030<br>4,074   | 0.09   |   |   |  |   |  |   |  |  |   |   |  |  |   |  |  |   |   |   |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |   |  |  |   |  |   |   |  |  |   |  |  |   |  |   |  |  |   |  |   |  |  |   |  |   |  |  |  |   |  |   |  |  |   |   |   |   |  |  |   |  |   |   |  |   |  |  |  |  |   |  |  |   |  |  |  |   |   |   |  |   |   |  |  |   |  |   |   |    |   |  |   |  |  |  |   |  |  |   |    |   |  |   |   |  |  |  |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |  |  |  |  |  |   |   |  |  |   |   |  |  |   |  |  |                                 |   |                              |                          |                         |  |  |  |  |   |                                      |                          |                                  |                              |                   |                |  |                                    |  |  |   |                      |            |                |      |     |  |    |                |  |                          |                         |      |  |       |  |  |       |   |       |                                      |            |                |  |  |         |      |     |                  |  |         |                      |     |  |      |            |                |      |            |                  |    |        |      |  |       |      |     |       |      |       |         |   |                  |  |            |                |      |            |                |      |  |  |   |                  |      |            |                |      |            |                |      |  |  |    |        |      |     |       |      |     |       |      |  |  |    |                 |      |            |                |      |            |                |      |  |  |  |                        |      |            |                |      |            |                |      |  |  |    |                  |      |            |                |      |            |                |      |  |  |    |       |      |     |       |      |     |       |      |  |  |    |                |      |            |                |      |            |                |      |  |  |    |                |      |            |                |      |            |                |      |  |  |    |                |      |            |       |      |            |                |      |  |  |  |       |      |     |                |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |       |      |     |       |      |     |       |      |  |  |                                      |                |      |            |                |      |            |                |      |  |  |                                      |                |      |            |                |      |            |                |      |  |  |                      |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |     |        |      |            |                |      |            |                 |      |  |  |  |                |      |            |                |      |            |                  |      |  |  |       |                |      |     |       |      |     |        |      |  |  |       |                                  |      |            |                |      |            |                |      |  |  |       |  |      |            |                |      |            |                |      |  |  |       |  |      |            |                |      |            |                |      |  |  |       |   |      |     |       |      |     |       |      |  |  |       |   |      |            |                |      |            |                  |      |  |  |       |   |                      |            |                |      |            |                |      |  |  |       |  |                              |  |       |      |     |       |      |  |  |     |  |  |     |                |      |            |        |      |  |  |                |   |                                      |                          |       |      |            |                  |      |  |  |
| 70   | 10,202<br>14,603  | 0.23   | 188<br>189  | 2,990<br>4,074   | 0.07   | 308<br>309  | 2,990<br>2,990   | 0.07   |   |   |  |   |  |   |  |  |   |   |  |  |   |  |  |   |   |   |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |   |  |  |   |  |   |   |  |  |   |  |  |   |  |   |  |  |   |  |   |  |  |   |  |   |  |  |  |   |  |   |  |  |   |   |   |   |  |  |   |  |   |   |  |   |  |  |  |  |   |  |  |   |  |  |  |   |   |   |  |   |   |  |  |   |  |   |   |    |   |  |   |  |  |  |   |  |  |   |    |   |  |   |   |  |  |  |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |  |  |  |  |  |   |   |  |  |   |   |  |  |   |  |  |                                 |   |                              |                          |                         |  |  |  |  |   |                                      |                          |                                  |                              |                   |                |  |                                    |  |  |   |                      |            |                |      |     |  |    |                |  |                          |                         |      |  |       |  |  |       |   |       |                                      |            |                |  |  |         |      |     |                  |  |         |                      |     |  |      |            |                |      |            |                  |    |        |      |  |       |      |     |       |      |       |         |   |                  |  |            |                |      |            |                |      |  |  |   |                  |      |            |                |      |            |                |      |  |  |    |        |      |     |       |      |     |       |      |  |  |    |                 |      |            |                |      |            |                |      |  |  |  |                        |      |            |                |      |            |                |      |  |  |    |                  |      |            |                |      |            |                |      |  |  |    |       |      |     |       |      |     |       |      |  |  |    |                |      |            |                |      |            |                |      |  |  |    |                |      |            |                |      |            |                |      |  |  |    |                |      |            |       |      |            |                |      |  |  |  |       |      |     |                |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |       |      |     |       |      |     |       |      |  |  |                                      |                |      |            |                |      |            |                |      |  |  |                                      |                |      |            |                |      |            |                |      |  |  |                      |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |     |        |      |            |                |      |            |                 |      |  |  |  |                |      |            |                |      |            |                  |      |  |  |       |                |      |     |       |      |     |        |      |  |  |       |                                  |      |            |                |      |            |                |      |  |  |       |  |      |            |                |      |            |                |      |  |  |       |  |      |            |                |      |            |                |      |  |  |       |   |      |     |       |      |     |       |      |  |  |       |   |      |            |                |      |            |                  |      |  |  |       |   |                      |            |                |      |            |                |      |  |  |       |  |                              |  |       |      |     |       |      |  |  |     |  |  |     |                |      |            |        |      |  |  |                |   |                                      |                          |       |      |            |                  |      |  |  |
| 72   | 5,244   | 0.12   | 190   | 4,030  | 0.09   | 310   | 2,990  | 0.07   |   |   |  |   |  |   |  |  |   |   |  |  |   |  |  |   |   |   |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |   |  |  |   |  |   |   |  |  |   |  |  |   |  |   |  |  |   |  |   |  |  |   |  |   |  |  |  |   |  |   |  |  |   |   |   |   |  |  |   |  |   |   |  |   |  |  |  |  |   |  |  |   |  |  |  |   |   |   |  |   |   |  |  |   |  |   |   |    |   |  |   |  |  |  |   |  |  |   |    |   |  |   |   |  |  |  |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |  |  |  |  |  |   |   |  |  |   |   |  |  |   |  |  |                                 |   |                              |                          |                         |  |  |  |  |   |                                      |                          |                                  |                              |                   |                |  |                                    |  |  |   |                      |            |                |      |     |  |    |                |  |                          |                         |      |  |       |  |  |       |   |       |                                      |            |                |  |  |         |      |     |                  |  |         |                      |     |  |      |            |                |      |            |                  |    |        |      |  |       |      |     |       |      |       |         |   |                  |  |            |                |      |            |                |      |  |  |   |                  |      |            |                |      |            |                |      |  |  |    |        |      |     |       |      |     |       |      |  |  |    |                 |      |            |                |      |            |                |      |  |  |  |                        |      |            |                |      |            |                |      |  |  |    |                  |      |            |                |      |            |                |      |  |  |    |       |      |     |       |      |     |       |      |  |  |    |                |      |            |                |      |            |                |      |  |  |    |                |      |            |                |      |            |                |      |  |  |    |                |      |            |       |      |            |                |      |  |  |  |       |      |     |                |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |       |      |     |       |      |     |       |      |  |  |                                      |                |      |            |                |      |            |                |      |  |  |                                      |                |      |            |                |      |            |                |      |  |  |                      |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |     |        |      |            |                |      |            |                 |      |  |  |  |                |      |            |                |      |            |                  |      |  |  |       |                |      |     |       |      |     |        |      |  |  |       |                                  |      |            |                |      |            |                |      |  |  |       |  |      |            |                |      |            |                |      |  |  |       |  |      |            |                |      |            |                |      |  |  |       |   |      |     |       |      |     |       |      |  |  |       |   |      |            |                |      |            |                  |      |  |  |       |   |                      |            |                |      |            |                |      |  |  |       |  |                              |  |       |      |     |       |      |  |  |     |  |  |     |                |      |            |        |      |  |  |                |   |                                      |                          |       |      |            |                  |      |  |  |
| 74   | 5,243<br>4,788  | 0.12   | 191<br>192  | 2,990<br>2,990   | 0.07   | 311<br>312  | 2,990<br>4,845   | 0.07   |   |   |  |   |  |   |  |  |   |   |  |  |   |  |  |   |   |   |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |   |  |  |   |  |   |   |  |  |   |  |  |   |  |   |  |  |   |  |   |  |  |   |  |   |  |  |  |   |  |   |  |  |   |   |   |   |  |  |   |  |   |   |  |   |  |  |  |  |   |  |  |   |  |  |  |   |   |   |  |   |   |  |  |   |  |   |   |    |   |  |   |  |  |  |   |  |  |   |    |   |  |   |   |  |  |  |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |  |  |  |  |  |   |   |  |  |   |   |  |  |   |  |  |                                 |   |                              |                          |                         |  |  |  |  |   |                                      |                          |                                  |                              |                   |                |  |                                    |  |  |   |                      |            |                |      |     |  |    |                |  |                          |                         |      |  |       |  |  |       |   |       |                                      |            |                |  |  |         |      |     |                  |  |         |                      |     |  |      |            |                |      |            |                  |    |        |      |  |       |      |     |       |      |       |         |   |                  |  |            |                |      |            |                |      |  |  |   |                  |      |            |                |      |            |                |      |  |  |    |        |      |     |       |      |     |       |      |  |  |    |                 |      |            |                |      |            |                |      |  |  |  |                        |      |            |                |      |            |                |      |  |  |    |                  |      |            |                |      |            |                |      |  |  |    |       |      |     |       |      |     |       |      |  |  |    |                |      |            |                |      |            |                |      |  |  |    |                |      |            |                |      |            |                |      |  |  |    |                |      |            |       |      |            |                |      |  |  |  |       |      |     |                |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |       |      |     |       |      |     |       |      |  |  |                                      |                |      |            |                |      |            |                |      |  |  |                                      |                |      |            |                |      |            |                |      |  |  |                      |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |     |        |      |            |                |      |            |                 |      |  |  |  |                |      |            |                |      |            |                  |      |  |  |       |                |      |     |       |      |     |        |      |  |  |       |                                  |      |            |                |      |            |                |      |  |  |       |  |      |            |                |      |            |                |      |  |  |       |  |      |            |                |      |            |                |      |  |  |       |   |      |     |       |      |     |       |      |  |  |       |   |      |            |                |      |            |                  |      |  |  |       |   |                      |            |                |      |            |                |      |  |  |       |  |                              |  |       |      |     |       |      |  |  |     |  |  |     |                |      |            |        |      |  |  |                |   |                                      |                          |       |      |            |                  |      |  |  |
| 75   | 2,600<br>2,600  | 0.06   | 193<br>194  | 4,845<br>5,172   | 0.11   | 313<br>314  | 4,845<br>2,990   | 0.11   |   |   |  |   |  |   |  |  |   |   |  |  |   |  |  |   |   |   |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |   |  |  |   |  |   |   |  |  |   |  |  |   |  |   |  |  |   |  |   |  |  |   |  |   |  |  |  |   |  |   |  |  |   |   |   |   |  |  |   |  |   |   |  |   |  |  |  |  |   |  |  |   |  |  |  |   |   |   |  |   |   |  |  |   |  |   |   |    |   |  |   |  |  |  |   |  |  |   |    |   |  |   |   |  |  |  |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |  |  |  |  |  |   |   |  |  |   |   |  |  |   |  |  |                                 |   |                              |                          |                         |  |  |  |  |   |                                      |                          |                                  |                              |                   |                |  |                                    |  |  |   |                      |            |                |      |     |  |    |                |  |                          |                         |      |  |       |  |  |       |   |       |                                      |            |                |  |  |         |      |     |                  |  |         |                      |     |  |      |            |                |      |            |                  |    |        |      |  |       |      |     |       |      |       |         |   |                  |  |            |                |      |            |                |      |  |  |   |                  |      |            |                |      |            |                |      |  |  |    |        |      |     |       |      |     |       |      |  |  |    |                 |      |            |                |      |            |                |      |  |  |  |                        |      |            |                |      |            |                |      |  |  |    |                  |      |            |                |      |            |                |      |  |  |    |       |      |     |       |      |     |       |      |  |  |    |                |      |            |                |      |            |                |      |  |  |    |                |      |            |                |      |            |                |      |  |  |    |                |      |            |       |      |            |                |      |  |  |  |       |      |     |                |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |       |      |     |       |      |     |       |      |  |  |                                      |                |      |            |                |      |            |                |      |  |  |                                      |                |      |            |                |      |            |                |      |  |  |                      |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |     |        |      |            |                |      |            |                 |      |  |  |  |                |      |            |                |      |            |                  |      |  |  |       |                |      |     |       |      |     |        |      |  |  |       |                                  |      |            |                |      |            |                |      |  |  |       |  |      |            |                |      |            |                |      |  |  |       |  |      |            |                |      |            |                |      |  |  |       |   |      |     |       |      |     |       |      |  |  |       |   |      |            |                |      |            |                  |      |  |  |       |   |                      |            |                |      |            |                |      |  |  |       |  |                              |  |       |      |     |       |      |  |  |     |  |  |     |                |      |            |        |      |  |  |                |   |                                      |                          |       |      |            |                  |      |  |  |
| 77   | 4,795<br>5,275  | 0.11   | 195<br>196  | 2,990  | 0.07   | 315<br>316  | 2,990<br>2,990   | 0.07   |   |   |  |   |  |   |  |  |   |   |  |  |   |  |  |   |   |   |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |   |  |  |   |  |   |   |  |  |   |  |  |   |  |   |  |  |   |  |   |  |  |   |  |   |  |  |  |   |  |   |  |  |   |   |   |   |  |  |   |  |   |   |  |   |  |  |  |  |   |  |  |   |  |  |  |   |   |   |  |   |   |  |  |   |  |   |   |    |   |  |   |  |  |  |   |  |  |   |    |   |  |   |   |  |  |  |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |  |  |  |  |  |   |   |  |  |   |   |  |  |   |  |  |                                 |   |                              |                          |                         |  |  |  |  |   |                                      |                          |                                  |                              |                   |                |  |                                    |  |  |   |                      |            |                |      |     |  |    |                |  |                          |                         |      |  |       |  |  |       |   |       |                                      |            |                |  |  |         |      |     |                  |  |         |                      |     |  |      |            |                |      |            |                  |    |        |      |  |       |      |     |       |      |       |         |   |                  |  |            |                |      |            |                |      |  |  |   |                  |      |            |                |      |            |                |      |  |  |    |        |      |     |       |      |     |       |      |  |  |    |                 |      |            |                |      |            |                |      |  |  |  |                        |      |            |                |      |            |                |      |  |  |    |                  |      |            |                |      |            |                |      |  |  |    |       |      |     |       |      |     |       |      |  |  |    |                |      |            |                |      |            |                |      |  |  |    |                |      |            |                |      |            |                |      |  |  |    |                |      |            |       |      |            |                |      |  |  |  |       |      |     |                |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |       |      |     |       |      |     |       |      |  |  |                                      |                |      |            |                |      |            |                |      |  |  |                                      |                |      |            |                |      |            |                |      |  |  |                      |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |     |        |      |            |                |      |            |                 |      |  |  |  |                |      |            |                |      |            |                  |      |  |  |       |                |      |     |       |      |     |        |      |  |  |       |                                  |      |            |                |      |            |                |      |  |  |       |  |      |            |                |      |            |                |      |  |  |       |  |      |            |                |      |            |                |      |  |  |       |   |      |     |       |      |     |       |      |  |  |       |   |      |            |                |      |            |                  |      |  |  |       |   |                      |            |                |      |            |                |      |  |  |       |  |                              |  |       |      |     |       |      |  |  |     |  |  |     |                |      |            |        |      |  |  |                |   |                                      |                          |       |      |            |                  |      |  |  |
| 79 2<br>80 2<br>81 4<br>82 4<br>83 2<br>84 2<br>85 5<br>86 8<br>87 6<br>88 6<br>89 5<br>90 5   | 4,890   | 0.11   | 197   | 2,990<br>2,990   | 0.07   | 317   | 2,990  | 0.07   |   |   |  |   |  |   |  |  |   |   |  |  |   |  |  |   |   |   |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |   |  |  |   |  |   |   |  |  |   |  |  |   |  |   |  |  |   |  |   |  |  |   |  |   |  |  |  |   |  |   |  |  |   |   |   |   |  |  |   |  |   |   |  |   |  |  |  |  |   |  |  |   |  |  |  |   |   |   |  |   |   |  |  |   |  |   |   |    |   |  |   |  |  |  |   |  |  |   |    |   |  |   |   |  |  |  |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |  |  |  |  |  |   |   |  |  |   |   |  |  |   |  |  |                                 |   |                              |                          |                         |  |  |  |  |   |                                      |                          |                                  |                              |                   |                |  |                                    |  |  |   |                      |            |                |      |     |  |    |                |  |                          |                         |      |  |       |  |  |       |   |       |                                      |            |                |  |  |         |      |     |                  |  |         |                      |     |  |      |            |                |      |            |                  |    |        |      |  |       |      |     |       |      |       |         |   |                  |  |            |                |      |            |                |      |  |  |   |                  |      |            |                |      |            |                |      |  |  |    |        |      |     |       |      |     |       |      |  |  |    |                 |      |            |                |      |            |                |      |  |  |  |                        |      |            |                |      |            |                |      |  |  |    |                  |      |            |                |      |            |                |      |  |  |    |       |      |     |       |      |     |       |      |  |  |    |                |      |            |                |      |            |                |      |  |  |    |                |      |            |                |      |            |                |      |  |  |    |                |      |            |       |      |            |                |      |  |  |  |       |      |     |                |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |       |      |     |       |      |     |       |      |  |  |                                      |                |      |            |                |      |            |                |      |  |  |                                      |                |      |            |                |      |            |                |      |  |  |                      |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |     |        |      |            |                |      |            |                 |      |  |  |  |                |      |            |                |      |            |                  |      |  |  |       |                |      |     |       |      |     |        |      |  |  |       |                                  |      |            |                |      |            |                |      |  |  |       |  |      |            |                |      |            |                |      |  |  |       |  |      |            |                |      |            |                |      |  |  |       |   |      |     |       |      |     |       |      |  |  |       |   |      |            |                |      |            |                  |      |  |  |       |   |                      |            |                |      |            |                |      |  |  |       |  |                              |  |       |      |     |       |      |  |  |     |  |  |     |                |      |            |        |      |  |  |                |   |                                      |                          |       |      |            |                  |      |  |  |
| 81 4<br>82 4<br>83 2<br>84 2<br>85 5<br>86 8<br>87 6<br>88 6<br>89 5<br>90 5   | 5,068<br>2,606  | 0.12   | 198<br>199  | 2,990<br>4,095   | 0.07   | 318<br>319  | 4,074<br>4,030   | 0.09   |   |   |  |   |  |   |  |  |   |   |  |  |   |  |  |   |   |   |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |   |  |  |   |  |   |   |  |  |   |  |  |   |  |   |  |  |   |  |   |  |  |   |  |   |  |  |  |   |  |   |  |  |   |   |   |   |  |  |   |  |   |   |  |   |  |  |  |  |   |  |  |   |  |  |  |   |   |   |  |   |   |  |  |   |  |   |   |    |   |  |   |  |  |  |   |  |  |   |    |   |  |   |   |  |  |  |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |  |  |  |  |  |   |   |  |  |   |   |  |  |   |  |  |                                 |   |                              |                          |                         |  |  |  |  |   |                                      |                          |                                  |                              |                   |                |  |                                    |  |  |   |                      |            |                |      |     |  |    |                |  |                          |                         |      |  |       |  |  |       |   |       |                                      |            |                |  |  |         |      |     |                  |  |         |                      |     |  |      |            |                |      |            |                  |    |        |      |  |       |      |     |       |      |       |         |   |                  |  |            |                |      |            |                |      |  |  |   |                  |      |            |                |      |            |                |      |  |  |    |        |      |     |       |      |     |       |      |  |  |    |                 |      |            |                |      |            |                |      |  |  |  |                        |      |            |                |      |            |                |      |  |  |    |                  |      |            |                |      |            |                |      |  |  |    |       |      |     |       |      |     |       |      |  |  |    |                |      |            |                |      |            |                |      |  |  |    |                |      |            |                |      |            |                |      |  |  |    |                |      |            |       |      |            |                |      |  |  |  |       |      |     |                |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |       |      |     |       |      |     |       |      |  |  |                                      |                |      |            |                |      |            |                |      |  |  |                                      |                |      |            |                |      |            |                |      |  |  |                      |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |     |        |      |            |                |      |            |                 |      |  |  |  |                |      |            |                |      |            |                  |      |  |  |       |                |      |     |       |      |     |        |      |  |  |       |                                  |      |            |                |      |            |                |      |  |  |       |  |      |            |                |      |            |                |      |  |  |       |  |      |            |                |      |            |                |      |  |  |       |   |      |     |       |      |     |       |      |  |  |       |   |      |            |                |      |            |                  |      |  |  |       |   |                      |            |                |      |            |                |      |  |  |       |  |                              |  |       |      |     |       |      |  |  |     |  |  |     |                |      |            |        |      |  |  |                |   |                                      |                          |       |      |            |                  |      |  |  |
| 82 4<br>83 2<br>84 2<br>85 5<br>86 8<br>87 6<br>88 6<br>89 5<br>90 5   | 2,609<br>4,776  | 0.06   | 200<br>201  | 3,965<br>2,990   | 0.09   | 320<br>321  | 2,990<br>2,990   | 0.07   |   |   |  |   |  |   |  |  |   |   |  |  |   |  |  |   |   |   |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |   |  |  |   |  |   |   |  |  |   |  |  |   |  |   |  |  |   |  |   |  |  |   |  |   |  |  |  |   |  |   |  |  |   |   |   |   |  |  |   |  |   |   |  |   |  |  |  |  |   |  |  |   |  |  |  |   |   |   |  |   |   |  |  |   |  |   |   |    |   |  |   |  |  |  |   |  |  |   |    |   |  |   |   |  |  |  |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |  |  |  |  |  |   |   |  |  |   |   |  |  |   |  |  |                                 |   |                              |                          |                         |  |  |  |  |   |                                      |                          |                                  |                              |                   |                |  |                                    |  |  |   |                      |            |                |      |     |  |    |                |  |                          |                         |      |  |       |  |  |       |   |       |                                      |            |                |  |  |         |      |     |                  |  |         |                      |     |  |      |            |                |      |            |                  |    |        |      |  |       |      |     |       |      |       |         |   |                  |  |            |                |      |            |                |      |  |  |   |                  |      |            |                |      |            |                |      |  |  |    |        |      |     |       |      |     |       |      |  |  |    |                 |      |            |                |      |            |                |      |  |  |  |                        |      |            |                |      |            |                |      |  |  |    |                  |      |            |                |      |            |                |      |  |  |    |       |      |     |       |      |     |       |      |  |  |    |                |      |            |                |      |            |                |      |  |  |    |                |      |            |                |      |            |                |      |  |  |    |                |      |            |       |      |            |                |      |  |  |  |       |      |     |                |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |       |      |     |       |      |     |       |      |  |  |                                      |                |      |            |                |      |            |                |      |  |  |                                      |                |      |            |                |      |            |                |      |  |  |                      |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |     |        |      |            |                |      |            |                 |      |  |  |  |                |      |            |                |      |            |                  |      |  |  |       |                |      |     |       |      |     |        |      |  |  |       |                                  |      |            |                |      |            |                |      |  |  |       |  |      |            |                |      |            |                |      |  |  |       |  |      |            |                |      |            |                |      |  |  |       |   |      |     |       |      |     |       |      |  |  |       |   |      |            |                |      |            |                  |      |  |  |       |   |                      |            |                |      |            |                |      |  |  |       |  |                              |  |       |      |     |       |      |  |  |     |  |  |     |                |      |            |        |      |  |  |                |   |                                      |                          |       |      |            |                  |      |  |  |
| 84 2<br>85 5<br>86 8<br>87 6<br>88 6<br>89 5<br>90 5   | 4,769   | 0.11   | 202   | 2,990  | 0.07   | 322   | 4,845  | 0.11   |   |   |  |   |  |   |  |  |   |   |  |  |   |  |  |   |   |   |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |   |  |  |   |  |   |   |  |  |   |  |  |   |  |   |  |  |   |  |   |  |  |   |  |   |  |  |  |   |  |   |  |  |   |   |   |   |  |  |   |  |   |   |  |   |  |  |  |  |   |  |  |   |  |  |  |   |   |   |  |   |   |  |  |   |  |   |   |    |   |  |   |  |  |  |   |  |  |   |    |   |  |   |   |  |  |  |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |  |  |  |  |  |   |   |  |  |   |   |  |  |   |  |  |                                 |   |                              |                          |                         |  |  |  |  |   |                                      |                          |                                  |                              |                   |                |  |                                    |  |  |   |                      |            |                |      |     |  |    |                |  |                          |                         |      |  |       |  |  |       |   |       |                                      |            |                |  |  |         |      |     |                  |  |         |                      |     |  |      |            |                |      |            |                  |    |        |      |  |       |      |     |       |      |       |         |   |                  |  |            |                |      |            |                |      |  |  |   |                  |      |            |                |      |            |                |      |  |  |    |        |      |     |       |      |     |       |      |  |  |    |                 |      |            |                |      |            |                |      |  |  |  |                        |      |            |                |      |            |                |      |  |  |    |                  |      |            |                |      |            |                |      |  |  |    |       |      |     |       |      |     |       |      |  |  |    |                |      |            |                |      |            |                |      |  |  |    |                |      |            |                |      |            |                |      |  |  |    |                |      |            |       |      |            |                |      |  |  |  |       |      |     |                |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |       |      |     |       |      |     |       |      |  |  |                                      |                |      |            |                |      |            |                |      |  |  |                                      |                |      |            |                |      |            |                |      |  |  |                      |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |     |        |      |            |                |      |            |                 |      |  |  |  |                |      |            |                |      |            |                  |      |  |  |       |                |      |     |       |      |     |        |      |  |  |       |                                  |      |            |                |      |            |                |      |  |  |       |  |      |            |                |      |            |                |      |  |  |       |  |      |            |                |      |            |                |      |  |  |       |   |      |     |       |      |     |       |      |  |  |       |   |      |            |                |      |            |                  |      |  |  |       |   |                      |            |                |      |            |                |      |  |  |       |  |                              |  |       |      |     |       |      |  |  |     |  |  |     |                |      |            |        |      |  |  |                |   |                                      |                          |       |      |            |                  |      |  |  |
| 86 8<br>87 6<br>88 6<br>89 5<br>90 5   | 2,598<br>2,596  | 0.06   | 203<br>204  | 4,095<br>4,095   | 0.09   | 323<br>324  | 4,845<br>2,990   | 0.11   |   |   |  |   |  |   |  |  |   |   |  |  |   |  |  |   |   |   |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |   |  |  |   |  |   |   |  |  |   |  |  |   |  |   |  |  |   |  |   |  |  |   |  |   |  |  |  |   |  |   |  |  |   |   |   |   |  |  |   |  |   |   |  |   |  |  |  |  |   |  |  |   |  |  |  |   |   |   |  |   |   |  |  |   |  |   |   |    |   |  |   |  |  |  |   |  |  |   |    |   |  |   |   |  |  |  |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |  |  |  |  |  |   |   |  |  |   |   |  |  |   |  |  |                                 |   |                              |                          |                         |  |  |  |  |   |                                      |                          |                                  |                              |                   |                |  |                                    |  |  |   |                      |            |                |      |     |  |    |                |  |                          |                         |      |  |       |  |  |       |   |       |                                      |            |                |  |  |         |      |     |                  |  |         |                      |     |  |      |            |                |      |            |                  |    |        |      |  |       |      |     |       |      |       |         |   |                  |  |            |                |      |            |                |      |  |  |   |                  |      |            |                |      |            |                |      |  |  |    |        |      |     |       |      |     |       |      |  |  |    |                 |      |            |                |      |            |                |      |  |  |  |                        |      |            |                |      |            |                |      |  |  |    |                  |      |            |                |      |            |                |      |  |  |    |       |      |     |       |      |     |       |      |  |  |    |                |      |            |                |      |            |                |      |  |  |    |                |      |            |                |      |            |                |      |  |  |    |                |      |            |       |      |            |                |      |  |  |  |       |      |     |                |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |       |      |     |       |      |     |       |      |  |  |                                      |                |      |            |                |      |            |                |      |  |  |                                      |                |      |            |                |      |            |                |      |  |  |                      |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |     |        |      |            |                |      |            |                 |      |  |  |  |                |      |            |                |      |            |                  |      |  |  |       |                |      |     |       |      |     |        |      |  |  |       |                                  |      |            |                |      |            |                |      |  |  |       |  |      |            |                |      |            |                |      |  |  |       |  |      |            |                |      |            |                |      |  |  |       |   |      |     |       |      |     |       |      |  |  |       |   |      |            |                |      |            |                  |      |  |  |       |   |                      |            |                |      |            |                |      |  |  |       |  |                              |  |       |      |     |       |      |  |  |     |  |  |     |                |      |            |        |      |  |  |                |   |                                      |                          |       |      |            |                  |      |  |  |
| 87 6<br>88 6<br>89 5<br>90 5<br>91 5   | 5,425<br>8,416  | 0.12   | 205<br>206  | 2,990<br>2,990   | 0.07   | 325<br>326  | 2,990<br>2,990   | 0.07   |   |   |  |   |  |   |  |  |   |   |  |  |   |  |  |   |   |   |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |   |  |  |   |  |   |   |  |  |   |  |  |   |  |   |  |  |   |  |   |  |  |   |  |   |  |  |  |   |  |   |  |  |   |   |   |   |  |  |   |  |   |   |  |   |  |  |  |  |   |  |  |   |  |  |  |   |   |   |  |   |   |  |  |   |  |   |   |    |   |  |   |  |  |  |   |  |  |   |    |   |  |   |   |  |  |  |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |  |  |  |  |  |   |   |  |  |   |   |  |  |   |  |  |                                 |   |                              |                          |                         |  |  |  |  |   |                                      |                          |                                  |                              |                   |                |  |                                    |  |  |   |                      |            |                |      |     |  |    |                |  |                          |                         |      |  |       |  |  |       |   |       |                                      |            |                |  |  |         |      |     |                  |  |         |                      |     |  |      |            |                |      |            |                  |    |        |      |  |       |      |     |       |      |       |         |   |                  |  |            |                |      |            |                |      |  |  |   |                  |      |            |                |      |            |                |      |  |  |    |        |      |     |       |      |     |       |      |  |  |    |                 |      |            |                |      |            |                |      |  |  |  |                        |      |            |                |      |            |                |      |  |  |    |                  |      |            |                |      |            |                |      |  |  |    |       |      |     |       |      |     |       |      |  |  |    |                |      |            |                |      |            |                |      |  |  |    |                |      |            |                |      |            |                |      |  |  |    |                |      |            |       |      |            |                |      |  |  |  |       |      |     |                |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |       |      |     |       |      |     |       |      |  |  |                                      |                |      |            |                |      |            |                |      |  |  |                                      |                |      |            |                |      |            |                |      |  |  |                      |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |     |        |      |            |                |      |            |                 |      |  |  |  |                |      |            |                |      |            |                  |      |  |  |       |                |      |     |       |      |     |        |      |  |  |       |                                  |      |            |                |      |            |                |      |  |  |       |  |      |            |                |      |            |                |      |  |  |       |  |      |            |                |      |            |                |      |  |  |       |   |      |     |       |      |     |       |      |  |  |       |   |      |            |                |      |            |                  |      |  |  |       |   |                      |            |                |      |            |                |      |  |  |       |  |                              |  |       |      |     |       |      |  |  |     |  |  |     |                |      |            |        |      |  |  |                |   |                                      |                          |       |      |            |                  |      |  |  |
| 89 5<br>90 5<br>91 5   | 6,766<br>6,230  | 0.16   | 207<br>208  | 4,043<br>5,675   | 0.09   | 327<br>328  | 2,990<br>4,074   | 0.07   |   |   |  |   |  |   |  |  |   |   |  |  |   |  |  |   |   |   |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |   |  |  |   |  |   |   |  |  |   |  |  |   |  |   |  |  |   |  |   |  |  |   |  |   |  |  |  |   |  |   |  |  |   |   |   |   |  |  |   |  |   |   |  |   |  |  |  |  |   |  |  |   |  |  |  |   |   |   |  |   |   |  |  |   |  |   |   |    |   |  |   |  |  |  |   |  |  |   |    |   |  |   |   |  |  |  |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |  |  |  |  |  |   |   |  |  |   |   |  |  |   |  |  |                                 |   |                              |                          |                         |  |  |  |  |   |                                      |                          |                                  |                              |                   |                |  |                                    |  |  |   |                      |            |                |      |     |  |    |                |  |                          |                         |      |  |       |  |  |       |   |       |                                      |            |                |  |  |         |      |     |                  |  |         |                      |     |  |      |            |                |      |            |                  |    |        |      |  |       |      |     |       |      |       |         |   |                  |  |            |                |      |            |                |      |  |  |   |                  |      |            |                |      |            |                |      |  |  |    |        |      |     |       |      |     |       |      |  |  |    |                 |      |            |                |      |            |                |      |  |  |  |                        |      |            |                |      |            |                |      |  |  |    |                  |      |            |                |      |            |                |      |  |  |    |       |      |     |       |      |     |       |      |  |  |    |                |      |            |                |      |            |                |      |  |  |    |                |      |            |                |      |            |                |      |  |  |    |                |      |            |       |      |            |                |      |  |  |  |       |      |     |                |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |       |      |     |       |      |     |       |      |  |  |                                      |                |      |            |                |      |            |                |      |  |  |                                      |                |      |            |                |      |            |                |      |  |  |                      |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |     |        |      |            |                |      |            |                 |      |  |  |  |                |      |            |                |      |            |                  |      |  |  |       |                |      |     |       |      |     |        |      |  |  |       |                                  |      |            |                |      |            |                |      |  |  |       |  |      |            |                |      |            |                |      |  |  |       |  |      |            |                |      |            |                |      |  |  |       |   |      |     |       |      |     |       |      |  |  |       |   |      |            |                |      |            |                  |      |  |  |       |   |                      |            |                |      |            |                |      |  |  |       |  |                              |  |       |      |     |       |      |  |  |     |  |  |     |                |      |            |        |      |  |  |                |   |                                      |                          |       |      |            |                  |      |  |  |
| 91 5   | 5,805   | 0.13   | 209   | 2,991  | 0.07   | 329   | 4,030  | 0.09   |   |   |  |   |  |   |  |  |   |   |  |  |   |  |  |   |   |   |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |   |  |  |   |  |   |   |  |  |   |  |  |   |  |   |  |  |   |  |   |  |  |   |  |   |  |  |  |   |  |   |  |  |   |   |   |   |  |  |   |  |   |   |  |   |  |  |  |  |   |  |  |   |  |  |  |   |   |   |  |   |   |  |  |   |  |   |   |    |   |  |   |  |  |  |   |  |  |   |    |   |  |   |   |  |  |  |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |  |  |  |  |  |   |   |  |  |   |   |  |  |   |  |  |                                 |   |                              |                          |                         |  |  |  |  |   |                                      |                          |                                  |                              |                   |                |  |                                    |  |  |   |                      |            |                |      |     |  |    |                |  |                          |                         |      |  |       |  |  |       |   |       |                                      |            |                |  |  |         |      |     |                  |  |         |                      |     |  |      |            |                |      |            |                  |    |        |      |  |       |      |     |       |      |       |         |   |                  |  |            |                |      |            |                |      |  |  |   |                  |      |            |                |      |            |                |      |  |  |    |        |      |     |       |      |     |       |      |  |  |    |                 |      |            |                |      |            |                |      |  |  |  |                        |      |            |                |      |            |                |      |  |  |    |                  |      |            |                |      |            |                |      |  |  |    |       |      |     |       |      |     |       |      |  |  |    |                |      |            |                |      |            |                |      |  |  |    |                |      |            |                |      |            |                |      |  |  |    |                |      |            |       |      |            |                |      |  |  |  |       |      |     |                |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |       |      |     |       |      |     |       |      |  |  |                                      |                |      |            |                |      |            |                |      |  |  |                                      |                |      |            |                |      |            |                |      |  |  |                      |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |     |        |      |            |                |      |            |                 |      |  |  |  |                |      |            |                |      |            |                  |      |  |  |       |                |      |     |       |      |     |        |      |  |  |       |                                  |      |            |                |      |            |                |      |  |  |       |  |      |            |                |      |            |                |      |  |  |       |  |      |            |                |      |            |                |      |  |  |       |   |      |     |       |      |     |       |      |  |  |       |   |      |            |                |      |            |                  |      |  |  |       |   |                      |            |                |      |            |                |      |  |  |       |  |                              |  |       |      |     |       |      |  |  |     |  |  |     |                |      |            |        |      |  |  |                |   |                                      |                          |       |      |            |                  |      |  |  |
|  | 5,817<br>5,724  | 0.13   | 210<br>211  | 2,990<br>5,842   | 0.07   | 330<br>331  | 2,990<br>2,990   | 0.07   |   |   |  |   |  |   |  |  |   |   |  |  |   |  |  |   |   |   |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |   |  |  |   |  |   |   |  |  |   |  |  |   |  |   |  |  |   |  |   |  |  |   |  |   |  |  |  |   |  |   |  |  |   |   |   |   |  |  |   |  |   |   |  |   |  |  |  |  |   |  |  |   |  |  |  |   |   |   |  |   |   |  |  |   |  |   |   |    |   |  |   |  |  |  |   |  |  |   |    |   |  |   |   |  |  |  |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |  |  |  |  |  |   |   |  |  |   |   |  |  |   |  |  |                                 |   |                              |                          |                         |  |  |  |  |   |                                      |                          |                                  |                              |                   |                |  |                                    |  |  |   |                      |            |                |      |     |  |    |                |  |                          |                         |      |  |       |  |  |       |   |       |                                      |            |                |  |  |         |      |     |                  |  |         |                      |     |  |      |            |                |      |            |                  |    |        |      |  |       |      |     |       |      |       |         |   |                  |  |            |                |      |            |                |      |  |  |   |                  |      |            |                |      |            |                |      |  |  |    |        |      |     |       |      |     |       |      |  |  |    |                 |      |            |                |      |            |                |      |  |  |  |                        |      |            |                |      |            |                |      |  |  |    |                  |      |            |                |      |            |                |      |  |  |    |       |      |     |       |      |     |       |      |  |  |    |                |      |            |                |      |            |                |      |  |  |    |                |      |            |                |      |            |                |      |  |  |    |                |      |            |       |      |            |                |      |  |  |  |       |      |     |                |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |       |      |     |       |      |     |       |      |  |  |                                      |                |      |            |                |      |            |                |      |  |  |                                      |                |      |            |                |      |            |                |      |  |  |                      |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |     |        |      |            |                |      |            |                 |      |  |  |  |                |      |            |                |      |            |                  |      |  |  |       |                |      |     |       |      |     |        |      |  |  |       |                                  |      |            |                |      |            |                |      |  |  |       |  |      |            |                |      |            |                |      |  |  |       |  |      |            |                |      |            |                |      |  |  |       |   |      |     |       |      |     |       |      |  |  |       |   |      |            |                |      |            |                  |      |  |  |       |   |                      |            |                |      |            |                |      |  |  |       |  |                              |  |       |      |     |       |      |  |  |     |  |  |     |                |      |            |        |      |  |  |                |   |                                      |                          |       |      |            |                  |      |  |  |
|  | 5,817<br>5,724  | 0.13   | 212<br>213  | 5,244<br>5,243   | 0.12   | 332<br>333  | 4,845<br>8,450   | 0.11   |   |   |  |   |  |   |  |  |   |   |  |  |   |  |  |   |   |   |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |   |  |  |   |  |   |   |  |  |   |  |  |   |  |   |  |  |   |  |   |  |  |   |  |   |  |  |  |   |  |   |  |  |   |   |   |   |  |  |   |  |   |   |  |   |  |  |  |  |   |  |  |   |  |  |  |   |   |   |  |   |   |  |  |   |  |   |   |    |   |  |   |  |  |  |   |  |  |   |    |   |  |   |   |  |  |  |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |  |  |  |  |  |   |   |  |  |   |   |  |  |   |  |  |                                 |   |                              |                          |                         |  |  |  |  |   |                                      |                          |                                  |                              |                   |                |  |                                    |  |  |   |                      |            |                |      |     |  |    |                |  |                          |                         |      |  |       |  |  |       |   |       |                                      |            |                |  |  |         |      |     |                  |  |         |                      |     |  |      |            |                |      |            |                  |    |        |      |  |       |      |     |       |      |       |         |   |                  |  |            |                |      |            |                |      |  |  |   |                  |      |            |                |      |            |                |      |  |  |    |        |      |     |       |      |     |       |      |  |  |    |                 |      |            |                |      |            |                |      |  |  |  |                        |      |            |                |      |            |                |      |  |  |    |                  |      |            |                |      |            |                |      |  |  |    |       |      |     |       |      |     |       |      |  |  |    |                |      |            |                |      |            |                |      |  |  |    |                |      |            |                |      |            |                |      |  |  |    |                |      |            |       |      |            |                |      |  |  |  |       |      |     |                |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |       |      |     |       |      |     |       |      |  |  |                                      |                |      |            |                |      |            |                |      |  |  |                                      |                |      |            |                |      |            |                |      |  |  |                      |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |     |        |      |            |                |      |            |                 |      |  |  |  |                |      |            |                |      |            |                  |      |  |  |       |                |      |     |       |      |     |        |      |  |  |       |                                  |      |            |                |      |            |                |      |  |  |       |  |      |            |                |      |            |                |      |  |  |       |  |      |            |                |      |            |                |      |  |  |       |   |      |     |       |      |     |       |      |  |  |       |   |      |            |                |      |            |                  |      |  |  |       |   |                      |            |                |      |            |                |      |  |  |       |  |                              |  |       |      |     |       |      |  |  |     |  |  |     |                |      |            |        |      |  |  |                |   |                                      |                          |       |      |            |                  |      |  |  |
| 94 5   | 5,817   | 0.13   | 214   | 5,244  | 0.12   | 334   | 8,450  | 0.19   |   |   |  |   |  |   |  |  |   |   |  |  |   |  |  |   |   |   |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |   |  |  |   |  |   |   |  |  |   |  |  |   |  |   |  |  |   |  |   |  |  |   |  |   |  |  |  |   |  |   |  |  |   |   |   |   |  |  |   |  |   |   |  |   |  |  |  |  |   |  |  |   |  |  |  |   |   |   |  |   |   |  |  |   |  |   |   |    |   |  |   |  |  |  |   |  |  |   |    |   |  |   |   |  |  |  |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |  |  |  |  |  |   |   |  |  |   |   |  |  |   |  |  |                                 |   |                              |                          |                         |  |  |  |  |   |                                      |                          |                                  |                              |                   |                |  |                                    |  |  |   |                      |            |                |      |     |  |    |                |  |                          |                         |      |  |       |  |  |       |   |       |                                      |            |                |  |  |         |      |     |                  |  |         |                      |     |  |      |            |                |      |            |                  |    |        |      |  |       |      |     |       |      |       |         |   |                  |  |            |                |      |            |                |      |  |  |   |                  |      |            |                |      |            |                |      |  |  |    |        |      |     |       |      |     |       |      |  |  |    |                 |      |            |                |      |            |                |      |  |  |  |                        |      |            |                |      |            |                |      |  |  |    |                  |      |            |                |      |            |                |      |  |  |    |       |      |     |       |      |     |       |      |  |  |    |                |      |            |                |      |            |                |      |  |  |    |                |      |            |                |      |            |                |      |  |  |    |                |      |            |       |      |            |                |      |  |  |  |       |      |     |                |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |       |      |     |       |      |     |       |      |  |  |                                      |                |      |            |                |      |            |                |      |  |  |                                      |                |      |            |                |      |            |                |      |  |  |                      |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |     |        |      |            |                |      |            |                 |      |  |  |  |                |      |            |                |      |            |                  |      |  |  |       |                |      |     |       |      |     |        |      |  |  |       |                                  |      |            |                |      |            |                |      |  |  |       |  |      |            |                |      |            |                |      |  |  |       |  |      |            |                |      |            |                |      |  |  |       |   |      |     |       |      |     |       |      |  |  |       |   |      |            |                |      |            |                  |      |  |  |       |   |                      |            |                |      |            |                |      |  |  |       |  |                              |  |       |      |     |       |      |  |  |     |  |  |     |                |      |            |        |      |  |  |                |   |                                      |                          |       |      |            |                  |      |  |  |
|  | 5,752<br>5,789  | 0.13   | 215<br>216  | 5,243<br>5,244   | 0.12   | 335<br>336  | 8,450<br>8,450   | 0.19   |   |   |  |   |  |   |  |  |   |   |  |  |   |  |  |   |   |   |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |   |  |  |   |  |   |   |  |  |   |  |  |   |  |   |  |  |   |  |   |  |  |   |  |   |  |  |  |   |  |   |  |  |   |   |   |   |  |  |   |  |   |   |  |   |  |  |  |  |   |  |  |   |  |  |  |   |   |   |  |   |   |  |  |   |  |   |   |    |   |  |   |  |  |  |   |  |  |   |    |   |  |   |   |  |  |  |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |  |  |  |  |  |   |   |  |  |   |   |  |  |   |  |  |                                 |   |                              |                          |                         |  |  |  |  |   |                                      |                          |                                  |                              |                   |                |  |                                    |  |  |   |                      |            |                |      |     |  |    |                |  |                          |                         |      |  |       |  |  |       |   |       |                                      |            |                |  |  |         |      |     |                  |  |         |                      |     |  |      |            |                |      |            |                  |    |        |      |  |       |      |     |       |      |       |         |   |                  |  |            |                |      |            |                |      |  |  |   |                  |      |            |                |      |            |                |      |  |  |    |        |      |     |       |      |     |       |      |  |  |    |                 |      |            |                |      |            |                |      |  |  |  |                        |      |            |                |      |            |                |      |  |  |    |                  |      |            |                |      |            |                |      |  |  |    |       |      |     |       |      |     |       |      |  |  |    |                |      |            |                |      |            |                |      |  |  |    |                |      |            |                |      |            |                |      |  |  |    |                |      |            |       |      |            |                |      |  |  |  |       |      |     |                |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |       |      |     |       |      |     |       |      |  |  |                                      |                |      |            |                |      |            |                |      |  |  |                                      |                |      |            |                |      |            |                |      |  |  |                      |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |     |        |      |            |                |      |            |                 |      |  |  |  |                |      |            |                |      |            |                  |      |  |  |       |                |      |     |       |      |     |        |      |  |  |       |                                  |      |            |                |      |            |                |      |  |  |       |  |      |            |                |      |            |                |      |  |  |       |  |      |            |                |      |            |                |      |  |  |       |   |      |     |       |      |     |       |      |  |  |       |   |      |            |                |      |            |                  |      |  |  |       |   |                      |            |                |      |            |                |      |  |  |       |  |                              |  |       |      |     |       |      |  |  |     |  |  |     |                |      |            |        |      |  |  |                |   |                                      |                          |       |      |            |                  |      |  |  |
|  | 5,752<br>5,789  | 0.13   | 217<br>218  | 5,243<br>5,244   | 0.12   | 337<br>338  | 8,450<br>8,965   | 0.19   |   |   |  |   |  |   |  |  |   |   |  |  |   |  |  |   |   |   |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |   |  |  |   |  |   |   |  |  |   |  |  |   |  |   |  |  |   |  |   |  |  |   |  |   |  |  |  |   |  |   |  |  |   |   |   |   |  |  |   |  |   |   |  |   |  |  |  |  |   |  |  |   |  |  |  |   |   |   |  |   |   |  |  |   |  |   |   |    |   |  |   |  |  |  |   |  |  |   |    |   |  |   |   |  |  |  |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |  |  |  |  |  |   |   |  |  |   |   |  |  |   |  |  |                                 |   |                              |                          |                         |  |  |  |  |   |                                      |                          |                                  |                              |                   |                |  |                                    |  |  |   |             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|  |    |                  |      |            |                |      |            |                |      |  |  |    |       |      |     |       |      |     |       |      |  |  |    |                |      |            |                |      |            |                |      |  |  |    |                |      |            |                |      |            |                |      |  |  |    |                |      |            |       |      |            |                |      |  |  |  |       |      |     |                |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |       |      |     |       |      |     |       |      |  |  |                                      |                |      |            |                |      |            |                |      |  |  |                                      |                |      |            |                |      |            |                |      |  |  |                      |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |     |        |      |            |                |      |            |                 |      |  |  |  |                |      |            |                |      |            |                  |      |  |  |       |                |      |     |       |      |     |        |      |  |  |       |                                  |      |            |                |      |            |                |      |  |  |       |  |      |            |                |      |            |                |      |  |  |       |  |      |            |                |      |            |                |      |  |  |       |   |      |     |       |      |     |       |      |  |  |       |   |      |            |                |      |            |                  |      |  |  |       |   |                      |            |                |      |            |                |      |  |  |       |  |                              |  |       |      |     |       |      |  |  |     |  |  |     |                |      |            |        |      |  |  |                |   |                                      |                          |       |      |            |                  |      |  |  |
| 99 5   | 5,724   | 0.13   | 219   | 5,243  | 0.12   | 339   | 9,709  | 0.22   |   |   |  |   |  |   |  |  |   |   |  |  |   |  |  |   |   |   |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |   |  |  |   |  |   |   |  |  |   |  |  |   |  |   |  |  |   |  |   |  |  |   |  |   |  |  |  |   |  |   |  |  |   |   |   |   |  |  |   |  |   |   |  |   |  |  |  |  |   |  |  |   |  |  |  |   |   |   |  |   |   |  |  |   |  |   |   |    |   |  |   |  |  |  |   |  |  |   |    |   |  |   |   |  |  |  |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |  |  |  |  |  |   |   |  |  |   |   |  |  |   |  |  |                                 |   |                              |                          |                         |  |  |  |  |   |                                      |                          |                                  |                              |                   |                |  |                                    |  |  |   |                      |            |                |      |     |  |    |                |  |                          |                         |      |  |       |  |  |       |   |       |                                      |            |                |  |  |         |      |     |                  |  |         |                      |     |  |      |            |                |      |            |                  |    |        |      |  |       |      |     |       |      |       |         |   |                  |  |            |                |      |            |                |      |  |  |   |                  |      |            |                |      |            |                |      |  |  |    |        |      |     |       |      |     |       |      |  |  |    |                 |      |            |                |      |            |                |      |  |  |  |                        |      |            |                |      |            |                |      |  |  |    |                  |      |            |                |      |            |                |      |  |  |    |       |      |     |       |      |     |       |      |  |  |    |                |      |            |                |      |            |                |      |  |  |    |                |      |            |                |      |            |                |      |  |  |    |                |      |            |       |      |            |                |      |  |  |  |       |      |     |                |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |       |      |     |       |      |     |       |      |  |  |                                      |                |      |            |                |      |            |                |      |  |  |                                      |                |      |            |                |      |            |                |      |  |  |                      |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |     |        |      |            |                |      |            |                 |      |  |  |  |                |      |            |                |      |            |                  |      |  |  |       |                |      |     |       |      |     |        |      |  |  |       |                                  |      |            |                |      |            |                |      |  |  |       |  |      |            |                |      |            |                |      |  |  |       |  |      |            |                |      |            |                |      |  |  |       |   |      |     |       |      |     |       |      |  |  |       |   |      |            |                |      |            |                  |      |  |  |       |   |                      |            |                |      |            |                |      |  |  |       |  |                              |  |       |      |     |       |      |  |  |     |  |  |     |                |      |            |        |      |  |  |                |   |                                      |                          |       |      |            |                  |      |  |  |
| 101  | / ומ.כ  | 0.13   | 220<br>221  | 5,244<br>5,243   | 0.12   | 340<br>341  | 8,437<br>10,775  | 0.19   |   |   |  |   |  |   |  |  |   |   |  |  |   |  |  |   |   |   |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |   |  |  |   |  |   |   |  |  |   |  |  |   |  |   |  |  |   |  |   |  |  |   |  |   |  |  |  |   |  |   |  |  |   |   |   |   |  |  |   |  |   |   |  |   |  |  |  |  |   |  |  |   |  |  |  |   |   |   |  |   |   |  |  |   |  |   |   |    |   |  |   |  |  |  |   |  |  |   |    |   |  |   |   |  |  |  |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |  |  |  |  |  |   |   |  |  |   |   |  |  |   |  |  |                                 |   |                              |                          |                         |  |  |  |  |   |                                      |                          |                                  |                              |                   |                |  |                                    |  |  |   |                      |            |                |      |     |  |    |                |  |                          |                         |      |  |       |  |  |       |   |       |                                      |            |                |  |  |         |      |     |                  |  |         |                      |     |  |      |            |                |      |            |                  |    |        |      |  |       |      |     |       |      |       |         |   |                  |  |            |                |      |            |                |      |  |  |   |                  |      |            |                |      |            |                |      |  |  |    |        |      |     |       |      |     |       |      |  |  |    |                 |      |            |                |      |            |                |      |  |  |  |                        |      |            |                |      |            |                |      |  |  |    |                  |      |            |                |      |            |                |      |  |  |    |       |      |     |       |      |     |       |      |  |  |    |                |      |            |                |      |            |                |      |  |  |    |                |      |            |                |      |            |                |      |  |  |    |                |      |            |       |      |            |                |      |  |  |  |       |      |     |                |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |       |      |     |       |      |     |       |      |  |  |                                      |                |      |            |                |      |            |                |      |  |  |                                      |                |      |            |                |      |            |                |      |  |  |                      |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |     |        |      |            |                |      |            |                 |      |  |  |  |                |      |            |                |      |            |                  |      |  |  |       |                |      |     |       |      |     |        |      |  |  |       |                                  |      |            |                |      |            |                |      |  |  |       |  |      |            |                |      |            |                |      |  |  |       |  |      |            |                |      |            |                |      |  |  |       |   |      |     |       |      |     |       |      |  |  |       |   |      |            |                |      |            |                  |      |  |  |       |   |                      |            |                |      |            |                |      |  |  |       |  |                              |  |       |      |     |       |      |  |  |     |  |  |     |                |      |            |        |      |  |  |                |   |                                      |                          |       |      |            |                  |      |  |  |
|  | 5,817<br>5,351  | 0.13   | 222<br>223  | 5,244<br>5,243   | 0.12   | 342<br>343  | 10,249<br>11,354   | 0.23   |   |   |  |   |  |   |  |  |   |   |  |  |   |  |  |   |   |   |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |   |  |  |   |  |   |   |  |  |   |  |  |   |  |   |  |  |   |  |   |  |  |   |  |   |  |  |  |   |  |   |  |  |   |   |   |   |  |  |   |  |   |   |  |   |  |  |  |  |   |  |  |   |  |  |  |   |   |   |  |   |   |  |  |   |  |   |   |    |   |  |   |  |  |  |   |  |  |   |    |   |  |   |   |  |  |  |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |  |  |  |  |  |   |   |  |  |   |   |  |  |   |  |  |                                 |   |                              |                          |                         |  |  |  |  |   |                                      |                          |                                  |                              |                   |                |  |                                    |  |  |   |                      |            |                |      |     |  |    |                |  |                          |                         |      |  |       |  |  |       |   |       |                                      |            |                |  |  |         |      |     |                  |  |         |                      |     |  |      |            |                |      |            |                  |    |        |      |  |       |      |     |       |      |       |         |   |                  |  |            |                |      |            |                |      |  |  |   |                  |      |            |                |      |            |                |      |  |  |    |        |      |     |       |      |     |       |      |  |  |    |                 |      |            |                |      |            |                |      |  |  |  |                        |      |            |                |      |            |                |      |  |  |    |                  |      |            |                |      |            |                |      |  |  |    |       |      |     |       |      |     |       |      |  |  |    |                |      |            |                |      |            |                |      |  |  |    |                |      |            |                |      |            |                |      |  |  |    |                |      |            |       |      |            |                |      |  |  |  |       |      |     |                |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |       |      |     |       |      |     |       |      |  |  |                                      |                |      |            |                |      |            |                |      |  |  |                                      |                |      |            |                |      |            |                |      |  |  |                      |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |     |        |      |            |                |      |            |                 |      |  |  |  |                |      |            |                |      |            |                  |      |  |  |       |                |      |     |       |      |     |        |      |  |  |       |                                  |      |            |                |      |            |                |      |  |  |       |  |      |            |                |      |            |                |      |  |  |       |  |      |            |                |      |            |                |      |  |  |       |   |      |     |       |      |     |       |      |  |  |       |   |      |            |                |      |            |                  |      |  |  |       |   |                      |            |                |      |            |                |      |  |  |       |  |                              |  |       |      |     |       |      |  |  |     |  |  |     |                |      |            |        |      |  |  |                |   |                                      |                          |       |      |            |                  |      |  |  |
| 104 6  | 5,351<br>5,846  | 0.14   | 224   | 5,244  | 0.12   | 344   | 10,576   | 0.24   |   |   |  |   |  |   |  |  |   |   |  |  |   |  |  |   |   |   |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |   |  |  |   |  |   |   |  |  |   |  |  |   |  |   |  |  |   |  |   |  |  |   |  |   |  |  |  |   |  |   |  |  |   |   |   |   |  |  |   |  |   |   |  |   |  |  |  |  |   |  |  |   |  |  |  |   |   |   |  |   |   |  |  |   |  |   |   |    |   |  |   |  |  |  |   |  |  |   |    |   |  |   |   |  |  |  |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |  |  |  |  |  |   |   |  |  |   |   |  |  |   |  |  |                                 |   |                              |                          |                         |  |  |  |  |   |                                      |                          |                                  |                              |                   |                |  |                                    |  |  |   |                      |            |                |      |     |  |    |                |  |                          |                         |      |  |       |  |  |       |   |       |                                      |            |                |  |  |         |      |     |                  |  |         |                      |     |  |      |            |                |      |            |                  |    |        |      |  |       |      |     |       |      |       |         |   |                  |  |            |                |      |            |                |      |  |  |   |                  |      |            |                |      |            |                |      |  |  |    |        |      |     |       |      |     |       |      |  |  |    |                 |      |            |                |      |            |                |      |  |  |  |                        |      |            |                |      |            |                |      |  |  |    |                  |      |            |                |      |            |                |      |  |  |    |       |      |     |       |      |     |       |      |  |  |    |                |      |            |                |      |            |                |      |  |  |    |                |      |            |                |      |            |                |      |  |  |    |                |      |            |       |      |            |                |      |  |  |  |       |      |     |                |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |       |      |     |       |      |     |       |      |  |  |                                      |                |      |            |                |      |            |                |      |  |  |                                      |                |      |            |                |      |            |                |      |  |  |                      |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |     |        |      |            |                |      |            |                 |      |  |  |  |                |      |            |                |      |            |                  |      |  |  |       |                |      |     |       |      |     |        |      |  |  |       |                                  |      |            |                |      |            |                |      |  |  |       |  |      |            |                |      |            |                |      |  |  |       |  |      |            |                |      |            |                |      |  |  |       |   |      |     |       |      |     |       |      |  |  |       |   |      |            |                |      |            |                  |      |  |  |       |   |                      |            |                |      |            |                |      |  |  |       |  |                              |  |       |      |     |       |      |  |  |     |  |  |     |                |      |            |        |      |  |  |                |   |                                      |                          |       |      |            |                  |      |  |  |
| 106 5  | 5,351<br>5,846<br>5,205<br>6,096  | 0.12   | 225<br>226  | 5,243<br>5,244   | 0.12   | 345<br>346  | 8,437<br>9,709   | 0.19   |   |   |  |   |  |   |  |  |   |   |  |  |   |  |  |   |   |   |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |   |  |  |   |  |   |   |  |  |   |  |  |   |  |   |  |  |   |  |   |  |  |   |  |   |  |  |  |   |  |   |  |  |   |   |   |   |  |  |   |  |   |   |  |   |  |  |  |  |   |  |  |   |  |  |  |   |   |   |  |   |   |  |  |   |  |   |   |    |   |  |   |  |  |  |   |  |  |   |    |   |  |   |   |  |  |  |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |  |  |  |  |  |   |   |  |  |   |   |  |  |   |  |  |                                 |   |                              |                          |                         |  |  |  |  |   |                                      |                          |                                  |                              |                   |                |  |                                    |  |  |   |                      |            |                |      |     |  |    |                |  |                          |                         |      |  |       |  |  |       |   |       |                                      |            |                |  |  |         |      |     |                  |  |         |                      |     |  |      |            |                |      |            |                  |    |        |      |  |       |      |     |       |      |       |         |   |                  |  |            |                |      |            |                |      |  |  |   |                  |      |            |                |      |            |                |      |  |  |    |        |      |     |       |      |     |       |      |  |  |    |                 |      |            |                |      |            |                |      |  |  |  |                        |      |            |                |      |            |                |      |  |  |    |                  |      |            |                |      |            |                |      |  |  |    |       |      |     |       |      |     |       |      |  |  |    |                |      |            |                |      |            |                |      |  |  |    |                |      |            |                |      |            |                |      |  |  |    |                |      |            |       |      |            |                |      |  |  |  |       |      |     |                |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |       |      |     |       |      |     |       |      |  |  |                                      |                |      |            |                |      |            |                |      |  |  |                                      |                |      |            |                |      |            |                |      |  |  |                      |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |     |        |      |            |                |      |            |                 |      |  |  |  |                |      |            |                |      |            |                  |      |  |  |       |                |      |     |       |      |     |        |      |  |  |       |                                  |      |            |                |      |            |                |      |  |  |       |  |      |            |                |      |            |                |      |  |  |       |  |      |            |                |      |            |                |      |  |  |       |   |      |     |       |      |     |       |      |  |  |       |   |      |            |                |      |            |                  |      |  |  |       |   |                      |            |                |      |            |                |      |  |  |       |  |                              |  |       |      |     |       |      |  |  |     |  |  |     |                |      |            |        |      |  |  |                |   |                                      |                          |       |      |            |                  |      |  |  |
| 108 5  | 5,351<br>5,846<br>5,205<br>6,096<br>5,348<br>5,193  | 0.12   | 227<br>228  | 5,243<br>5,244   | 0.12   | 347<br>348  | 9,372<br>8,450   | 0.21   |   |   |  |   |  |   |  |  |   |   |  |  |   |  |  |   |   |   |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |   |  |  |   |  |   |   |  |  |   |  |  |   |  |   |  |  |   |  |   |  |  |   |  |   |  |  |  |   |  |   |  |  |   |   |   |   |  |  |   |  |   |   |  |   |  |  |  |  |   |  |  |   |  |  |  |   |   |   |  |   |   |  |  |   |  |   |   |    |   |  |   |  |  |  |   |  |  |   |    |   |  |   |   |  |  |  |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |  |  |  |  |  |   |   |  |  |   |   |  |  |   |  |  |                                 |   |                              |                          |                         |  |  |  |  |   |                                      |                          |                                  |                              |                   |                |  |                                    |  |  |   |                      |            |                |      |     |  |    |                |  |                          |                         |      |  |       |  |  |       |   |       |                                      |            |                |  |  |         |      |     |                  |  |         |                      |     |  |      |            |                |      |            |                  |    |        |      |  |       |      |     |       |      |       |         |   |                  |  |            |                |      |            |                |      |  |  |   |                  |      |            |                |      |            |                |      |  |  |    |        |      |     |       |      |     |       |      |  |  |    |                 |      |            |                |      |            |                |      |  |  |  |                        |      |            |                |      |            |                |      |  |  |    |                  |      |            |                |      |            |                |      |  |  |    |       |      |     |       |      |     |       |      |  |  |    |                |      |            |                |      |            |                |      |  |  |    |                |      |            |                |      |            |                |      |  |  |    |                |      |            |       |      |            |                |      |  |  |  |       |      |     |                |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |       |      |     |       |      |     |       |      |  |  |                                      |                |      |            |                |      |            |                |      |  |  |                                      |                |      |            |                |      |            |                |      |  |  |                      |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |     |        |      |            |                |      |            |                 |      |  |  |  |                |      |            |                |      |            |                  |      |  |  |       |                |      |     |       |      |     |        |      |  |  |       |                                  |      |            |                |      |            |                |      |  |  |       |  |      |            |                |      |            |                |      |  |  |       |  |      |            |                |      |            |                |      |  |  |       |   |      |     |       |      |     |       |      |  |  |       |   |      |            |                |      |            |                  |      |  |  |       |   |                      |            |                |      |            |                |      |  |  |       |  |                              |  |       |      |     |       |      |  |  |     |  |  |     |                |      |            |        |      |  |  |                |   |                                      |                          |       |      |            |                  |      |  |  |
| 109 5  | 5,351<br>5,846<br>5,205<br>6,096<br>5,348<br>5,193<br>5,354<br>5,193  | 0.12   | 229<br>230  | 5,243<br>5,697   | 0.12   | 349<br>350  | 8,450<br>8,450   | 0.19   |   |   |  |   |  |   |  |  |   |   |  |  |   |  |  |   |   |   |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |   |  |  |   |  |   |   |  |  |   |  |  |   |  |   |  |  |   |  |   |  |  |   |  |   |  |  |  |   |  |   |  |  |   |   |   |   |  |  |   |  |   |   |  |   |  |  |  |  |   |  |  |   |  |  |  |   |   |   |  |   |   |  |  |   |  |   |   |    |   |  |   |  |  |  |   |  |  |   |    |   |  |   |   |  |  |  |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |  |  |  |  |  |   |   |  |  |   |   |  |  |   |  |  |                                 |   |                              |                          |                         |  |  |  |  |   |                                      |                          |                                  |                              |                   |                |  |                                    |  |  |   |                      |            |                |      |     |  |    |                |  |                          |                         |      |  |       |  |  |       |   |       |                                      |            |                |  |  |         |      |     |                  |  |         |                      |     |  |      |            |                |      |            |                  |    |        |      |  |       |      |     |       |      |       |         |   |                  |  |            |                |      |            |                |      |  |  |   |                  |      |            |                |      |            |                |      |  |  |    |        |      |     |       |      |     |       |      |  |  |    |                 |      |            |                |      |            |                |      |  |  |  |                        |      |            |                |      |            |                |      |  |  |    |                  |      |            |                |      |            |                |      |  |  |    |       |      |     |       |      |     |       |      |  |  |    |                |      |            |                |      |            |                |      |  |  |    |                |      |            |                |      |            |                |      |  |  |    |                |      |            |       |      |            |                |      |  |  |  |       |      |     |                |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |       |      |     |       |      |     |       |      |  |  |                                      |                |      |            |                |      |            |                |      |  |  |                                      |                |      |            |                |      |            |                |      |  |  |                      |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |     |        |      |            |                |      |            |                 |      |  |  |  |                |      |            |                |      |            |                  |      |  |  |       |                |      |     |       |      |     |        |      |  |  |       |                                  |      |            |                |      |            |                |      |  |  |       |  |      |            |                |      |            |                |      |  |  |       |  |      |            |                |      |            |                |      |  |  |       |   |      |     |       |      |     |       |      |  |  |       |   |      |            |                |      |            |                  |      |  |  |       |   |                      |            |                |      |            |                |      |  |  |       |  |                              |  |       |      |     |       |      |  |  |     |  |  |     |                |      |            |        |      |  |  |                |   |                                      |                          |       |      |            |                  |      |  |  |
| 111 5  | 5,351<br>5,846<br>5,205<br>6,096<br>5,348<br>5,193<br>5,354<br>5,193<br>5,354   | U.IZ   | 231   | 8,721  | 0.20   | 351   | 8,450  | 0.19   |   |   |  |   |  |   |  |  |   |   |  |  |   |  |  |   |   |   |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |   |  |  |   |  |   |   |  |  |   |  |  |   |  |   |  |  |   |  |   |  |  |   |  |   |  |  |  |   |  |   |  |  |   |   |   |   |  |  |   |  |   |   |  |   |  |  |  |  |   |  |  |   |  |  |  |   |   |   |  |   |   |  |  |   |  |   |   |    |   |  |   |  |  |  |   |  |  |   |    |   |  |   |   |  |  |  |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |  |  |  |  |  |   |   |  |  |   |   |  |  |   |  |  |                                 |   |                              |                          |                         |  |  |  |  |   |                                      |                          |                                  |                              |                   |                |  |                                    |  |  |   |                      |            |                |      |     |  |    |                |  |                          |                         |      |  |       |  |  |       |   |       |                                      |            |                |  |  |         |      |     |                  |  |         |                      |     |  |      |            |                |      |            |                  |    |        |      |  |       |      |     |       |      |       |         |   |                  |  |            |                |      |            |                |      |  |  |   |                  |      |            |                |      |            |                |      |  |  |    |        |      |     |       |      |     |       |      |  |  |    |                 |      |            |                |      |            |                |      |  |  |  |                        |      |            |                |      |            |                |      |  |  |    |                  |      |            |                |      |            |                |      |  |  |    |       |      |     |       |      |     |       |      |  |  |    |                |      |            |                |      |            |                |      |  |  |    |                |      |            |                |      |            |                |      |  |  |    |                |      |            |       |      |            |                |      |  |  |  |       |      |     |                |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |       |      |     |       |      |     |       |      |  |  |                                      |                |      |            |                |      |            |                |      |  |  |                                      |                |      |            |                |      |            |                |      |  |  |                      |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |     |        |      |            |                |      |            |                 |      |  |  |  |                |      |            |                |      |            |                  |      |  |  |       |                |      |     |       |      |     |        |      |  |  |       |                                  |      |            |                |      |            |                |      |  |  |       |  |      |            |                |      |            |                |      |  |  |       |  |      |            |                |      |            |                |      |  |  |       |   |      |     |       |      |     |       |      |  |  |       |   |      |            |                |      |            |                  |      |  |  |       |   |                      |            |                |      |            |                |      |  |  |       |  |                              |  |       |      |     |       |      |  |  |     |  |  |     |                |      |            |        |      |  |  |                |   |                                      |                          |       |      |            |                  |      |  |  |
| 113 4  | 5,351<br>5,846<br>5,205<br>6,096<br>5,348<br>5,193<br>5,354<br>5,193<br>5,354<br>5,193<br>5,354   | 0.12   | 232<br>233  | 5,244<br>5,243   | 0.12   | 352<br>353  | 10,103<br>10,390   | 0.23   |   |   |  |   |  |   |  |  |   |   |  |  |   |  |  |   |   |   |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |   |  |  |   |  |   |   |  |  |   |  |  |   |  |   |  |  |   |  |   |  |  |   |  |   |  |  |  |   |  |   |  |  |   |   |   |   |  |  |   |  |   |   |  |   |  |  |  |  |   |  |  |   |  |  |  |   |   |   |  |   |   |  |  |   |  |   |   |    |   |  |   |  |  |  |   |  |  |   |    |   |  |   |   |  |  |  |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |  |  |  |  |  |   |   |  |  |   |   |  |  |   |  |  |                                 |   |                              |                          |                         |  |  |  |  |   |                                      |                          |                                  |                              |                   |                |  |                                    |  |  |   |                      |            |                |      |     |  |    |                |  |                          |                         |      |  |       |  |  |       |   |       |                                      |            |                |  |  |         |      |     |                  |  |         |                      |     |  |      |            |                |      |            |                  |    |        |      |  |       |      |     |       |      |       |         |   |                  |  |            |                |      |            |                |      |  |  |   |                  |      |            |                |      |            |                |      |  |  |    |        |      |     |       |      |     |       |      |  |  |    |                 |      |            |                |      |            |                |      |  |  |  |                        |      |            |                |      |            |                |      |  |  |    |                  |      |            |                |      |            |                |      |  |  |    |       |      |     |       |      |     |       |      |  |  |    |                |      |            |                |      |            |                |      |  |  |    |                |      |            |                |      |            |                |      |  |  |    |                |      |            |       |      |            |                |      |  |  |  |       |      |     |                |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |       |      |     |       |      |     |       |      |  |  |                                      |                |      |            |                |      |            |                |      |  |  |                                      |                |      |            |                |      |            |                |      |  |  |                      |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |     |        |      |            |                |      |            |                 |      |  |  |  |                |      |            |                |      |            |                  |      |  |  |       |                |      |     |       |      |     |        |      |  |  |       |                                  |      |            |                |      |            |                |      |  |  |       |  |      |            |                |      |            |                |      |  |  |       |  |      |            |                |      |            |                |      |  |  |       |   |      |     |       |      |     |       |      |  |  |       |   |      |            |                |      |            |                  |      |  |  |       |   |                      |            |                |      |            |                |      |  |  |       |  |                              |  |       |      |     |       |      |  |  |     |  |  |     |                |      |            |        |      |  |  |                |   |                                      |                          |       |      |            |                  |      |  |  |
| 114 4  | 5,351<br>5,846<br>5,205<br>6,096<br>5,348<br>5,193<br>5,354<br>5,193<br>5,354<br>5,193<br>5,354<br>5,193<br>4,938   | 0.12<br>0.12<br>0.11   | 234<br>235  | 5,244<br>5,243   | 0.12   | 354<br>355  | 9,962<br>8,401   | 0.23   |   |   |  |   |  |   |  |  |   |   |  |  |   |  |  |   |   |   |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |   |  |  |   |  |   |   |  |  |   |  |  |   |  |   |  |  |   |  |   |  |  |   |  |   |  |  |  |   |  |   |  |  |   |   |   |   |  |  |   |  |   |   |  |   |  |  |  |  |   |  |  |   |  |  |  |   |   |   |  |   |   |  |  |   |  |   |   |    |   |  |   |  |  |  |   |  |  |   |    |   |  |   |   |  |  |  |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |  |  |  |  |  |   |   |  |  |   |   |  |  |   |  |  |                                 |   |                              |                          |                         |  |  |  |  |   |                                      |                          |                                  |                              |                   |                |  |                                    |  |  |   |                      |            |                |      |     |  |    |                |  |                          |                         |      |  |       |  |  |       |   |       |                                      |            |                |  |  |         |      |     |                  |  |         |                      |     |  |      |            |                |      |            |                  |    |        |      |  |       |      |     |       |      |       |         |   |                  |  |            |                |      |            |                |      |  |  |   |                  |      |            |                |      |            |                |      |  |  |    |        |      |     |       |      |     |       |      |  |  |    |                 |      |            |                |      |            |                |      |  |  |  |                        |      |            |                |      |            |                |      |  |  |    |                  |      |            |                |      |            |                |      |  |  |    |       |      |     |       |      |     |       |      |  |  |    |                |      |            |                |      |            |                |      |  |  |    |                |      |            |                |      |            |                |      |  |  |    |                |      |            |       |      |            |                |      |  |  |  |       |      |     |                |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |       |      |     |       |      |     |       |      |  |  |                                      |                |      |            |                |      |            |                |      |  |  |                                      |                |      |            |                |      |            |                |      |  |  |                      |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |     |        |      |            |                |      |            |                 |      |  |  |  |                |      |            |                |      |            |                  |      |  |  |       |                |      |     |       |      |     |        |      |  |  |       |                                  |      |            |                |      |            |                |      |  |  |       |  |      |            |                |      |            |                |      |  |  |       |  |      |            |                |      |            |                |      |  |  |       |   |      |     |       |      |     |       |      |  |  |       |   |      |            |                |      |            |                  |      |  |  |       |   |                      |            |                |      |            |                |      |  |  |       |  |                              |  |       |      |     |       |      |  |  |     |  |  |     |                |      |            |        |      |  |  |                |   |                                      |                          |       |      |            |                  |      |  |  |
| 116 5  | 5,351<br>5,846<br>5,205<br>6,096<br>5,348<br>5,193<br>5,354<br>5,193<br>5,354<br>5,193<br>5,354<br>5,193<br>4,938<br>4,986  | 0.12<br>0.12<br>0.11<br>0.11   |   | 5,244  | 0.12   | 356   | 8,395  | 0.19   |   |   |  |   |  |   |  |  |   |   |  |  |   |  |  |   |   |   |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |   |  |  |   |  |   |   |  |  |   |  |  |   |  |   |  |  |   |  |   |  |  |   |  |   |  |  |  |   |  |   |  |  |   |   |   |   |  |  |   |  |   |   |  |   |  |  |  |  |   |  |  |   |  |  |  |   |   |   |  |   |   |  |  |   |  |   |   |    |   |  |   |  |  |  |   |  |  |   |    |   |  |   |   |  |  |  |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |  |  |  |  |  |   |   |  |  |   |   |  |  |   |  |  |                                 |   |                              |                          |                         |  |  |  |  |   |                                      |                          |                                  |                              |                   |                |  |                                    |  |  |   |                      |            |                |      |     |  |    |                |  |                          |                         |      |  |       |  |  |       |   |       |                                      |            |                |  |  |         |      |     |                  |  |         |                      |     |  |      |            |                |      |            |                  |    |        |      |  |       |      |     |       |      |       |         |   |                  |  |            |                |      |            |                |      |  |  |   |                  |      |            |                |      |            |                |      |  |  |    |        |      |     |       |      |     |       |      |  |  |    |                 |      |            |                |      |            |                |      |  |  |  |                        |      |            |                |      |            |                |      |  |  |    |                  |      |            |                |      |            |                |      |  |  |    |       |      |     |       |      |     |       |      |  |  |    |                |      |            |                |      |            |                |      |  |  |    |                |      |            |                |      |            |                |      |  |  |    |                |      |            |       |      |            |                |      |  |  |  |       |      |     |                |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |       |      |     |       |      |     |       |      |  |  |                                      |                |      |            |                |      |            |                |      |  |  |                                      |                |      |            |                |      |            |                |      |  |  |                      |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |     |        |      |            |                |      |            |                 |      |  |  |  |                |      |            |                |      |            |                  |      |  |  |       |                |      |     |       |      |     |        |      |  |  |       |                                  |      |            |                |      |            |                |      |  |  |       |  |      |            |                |      |            |                |      |  |  |       |  |      |            |                |      |            |                |      |  |  |       |   |      |     |       |      |     |       |      |  |  |       |   |      |            |                |      |            |                  |      |  |  |       |   |                      |            |                |      |            |                |      |  |  |       |  |                              |  |       |      |     |       |      |  |  |     |  |  |     |                |      |            |        |      |  |  |                |   |                                      |                          |       |      |            |                  |      |  |  |
| 118  | 5,351<br>5,846<br>5,205<br>6,096<br>5,348<br>5,193<br>5,354<br>5,193<br>5,354<br>5,193<br>5,354<br>5,193<br>4,938<br>4,986<br>5,412<br>5,660  | 0.12<br>0.12<br>0.11<br>0.11<br>0.12<br>0.13   | 236   | 5,243<br>5,244   | 0.12   | 357<br>358  | 11,016   | 0.25   |   |   |  |   |  |   |  |  |   |   |  |  |   |  |  |   |   |   |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |   |  |  |   |  |   |   |  |  |   |  |  |   |  |   |  |  |   |  |   |  |  |   |  |   |  |  |  |   |  |   |  |  |   |   |   |   |  |  |   |  |   |   |  |   |  |  |  |  |   |  |  |   |  |  |  |   |   |   |  |   |   |  |  |   |  |   |   |    |   |  |   |  |  |  |   |  |  |   |    |   |  |   |   |  |  |  |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |  |  |  |  |  |   |   |  |  |   |   |  |  |   |  |  |                                 |   |                              |                          |                         |  |  |  |  |   |                                      |                          |                                  |                              |                   |                |  |                                    |  |  |   |                      |            |                |      |     |  |    |                |  |                          |                         |      |  |       |  |  |       |   |       |                                      |            |                |  |  |         |      |     |                  |  |         |                      |     |  |      |            |                |      |            |                  |    |        |      |  |       |      |     |       |      |       |         |   |                  |  |            |                |      |            |                |      |  |  |   |                  |      |            |                |      |            |                |      |  |  |    |        |      |     |       |      |     |       |      |  |  |    |                 |      |            |                |      |            |                |      |  |  |  |                        |      |            |                |      |            |                |      |  |  |    |                  |      |            |                |      |            |                |      |  |  |    |       |      |     |       |      |     |       |      |  |  |    |                |      |            |                |      |            |                |      |  |  |    |                |      |            |                |      |            |                |      |  |  |    |                |      |            |       |      |            |                |      |  |  |  |       |      |     |                |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |       |      |     |       |      |     |       |      |  |  |                                      |                |      |            |                |      |            |                |      |  |  |                                      |                |      |            |                |      |            |                |      |  |  |                      |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |     |        |      |            |                |      |            |                 |      |  |  |  |                |      |            |                |      |            |                  |      |  |  |       |                |      |     |       |      |     |        |      |  |  |       |                                  |      |            |                |      |            |                |      |  |  |       |  |      |            |                |      |            |                |      |  |  |       |  |      |            |                |      |            |                |      |  |  |       |   |      |     |       |      |     |       |      |  |  |       |   |      |            |                |      |            |                  |      |  |  |       |   |                      |            |                |      |            |                |      |  |  |       |  |                              |  |       |      |     |       |      |  |  |     |  |  |     |                |      |            |        |      |  |  |                |   |                                      |                          |       |      |            |                  |      |  |  |
| 119 8<br>120 5   | 5,351<br>5,846<br>5,205<br>6,096<br>5,348<br>5,193<br>5,354<br>5,193<br>5,354<br>5,193<br>5,354<br>5,193<br>4,938<br>4,986<br>5,412   | 0.12<br>0.12<br>0.11<br>0.11<br>0.12   | 236<br>237<br>238<br>239  | 5,243  | 0.12   | 359<br>360  | 11,349<br>10,815   | 0.26   |   |   |  |   |  |   |  |  |   |   |  |  |   |  |  |   |   |   |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |   |  |  |   |  |   |   |  |  |   |  |  |   |  |   |  |  |   |  |   |  |  |   |  |   |  |  |  |   |  |   |  |  |   |   |   |   |  |  |   |  |   |   |  |   |  |  |  |  |   |  |  |   |  |  |  |   |   |   |  |   |   |  |  |   |  |   |   |    |   |  |   |  |  |  |   |  |  |   |    |   |  |   |   |  |  |  |  |  |  |  |   |  |  |  |  |   |   |  |  |  |  |  |  |  |  |  |   |   |  |  |   |   |  |  |   |  |  |                                 |   |                              |                          |                         |  |  |  |  |   |                                      |                          |                                  |                              |                   |                |  |                                    |  |  |   |                      |            |                |      |     |  |    |                |  |                          |                         |      |  |       |  |  |       |   |       |                                      |            |                |  |  |         |      |     |                  |  |         |                      |     |  |      |            |                |      |            |                  |    |        |      |  |       |      |     |       |      |       |         |   |                  |  |            |                |      |            |                |      |  |  |   |                  |      |            |                |      |            |                |      |  |  |    |        |      |     |       |      |     |       |      |  |  |    |                 |      |            |                |      |            |                |      |  |  |  |                        |      |            |                |      |            |                |      |  |  |    |                  |      |            |                |      |            |                |      |  |  |    |       |      |     |       |      |     |       |      |  |  |    |                |      |            |                |      |            |                |      |  |  |    |                |      |            |                |      |            |                |      |  |  |    |                |      |            |       |      |            |                |      |  |  |  |       |      |     |                |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |       |      |     |       |      |     |       |      |  |  |                                      |                |      |            |                |      |            |                |      |  |  |                                      |                |      |            |                |      |            |                |      |  |  |                      |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |  |                |      |            |                |      |            |                |      |  |  |  |                |      |            |                |      |            |                |      |  |  |      |       |      |     |       |      |     |       |      |  |  |     |        |      |            |                |      |            |                 |      |  |  |  |                |      |            |                |      |            |                  |      |  |  |       |                |      |     |       |      |     |        |      |  |  |       |                                  |      |            |                |      |            |                |      |  |  |       |  |      |            |                |      |            |                |      |  |  |       |  |      |            |                |      |            |                |      |  |  |       |   |      |     |       |      |     |       |      |  |  |       |   |      |            |                |      |            |                  |      |  |  |       |   |                      |            |                |      |            |                |      |  |  |       |  |                              |  |       |      |     |       |      |  |  |     |  |  |     |                |      |            |        |      |  |  |                |   |                                      |                          |       |      |            |                  |      |  |  |

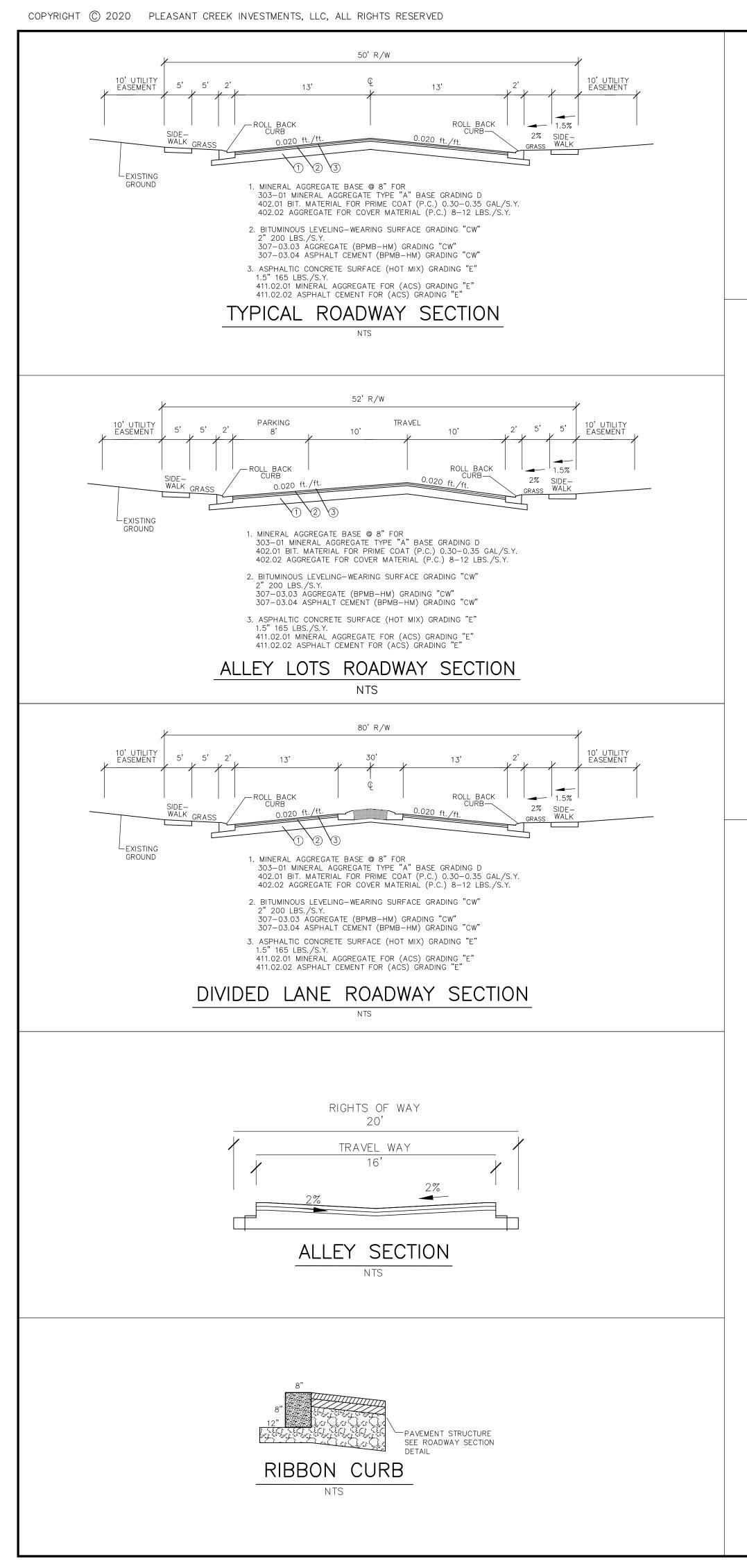
| CURVE<br>C1       | 25.00'                        | DELTA ANGLE<br>92°40'26"                  | ARC<br>40.44'               | 36.17'                      | CHORD BEARIN                              |
|-------------------|-------------------------------|---|-----------------------------|-----------------------------|---|
| C2                | 225.00'                       | 18*56'23"                                 | 74.38'                      | 74.04'                      | S74*13'17"W                               |
| C3                | 625.00'                       | 8*36'00"                                  |                             | 93.72'                      | S79*23'29"W                               |
| C4<br>C5          | 25.00'<br>125.00'             | 90°00'00"<br>65°25'13"<br>4°26'48"        | 39.27'<br>142.73'<br>40.75' | 35.36'<br>135.10'<br>40.74' | N59*54'31"W<br>N47*37'08"W<br>N82*33'09"W |
| C6<br>C7<br>C8    | 525.00'<br>125.00'<br>525.00' | 7°42'25"<br>14°35'28"                     | 16.81'<br>133.70'           | 16.80'<br>133.34'           | N88*37'45"W<br>S80*13'18"W                |
| C9                | 300.00'                       | 11°50'30"                                 | 62.00'                      | 61.89'                      | S67*00'19"W                               |
| C10               | 250.00'                       | 11°50'30"                                 | 51.67'                      |                             | N67*00'19"E                               |
| C11               | 475.00'                       | 14°35'28"                                 | 120.97'                     | 120.64'                     | N80°13'18"E                               |
| C12               | 25.00'                        | 90°00'00"                                 | 39.27'                      | 35.36'                      | S47°28'58"E                               |
| C13               | 25.00'                        | 90°00'00"                                 | 39.27                       | 35.36'                      | N42°31'02"E                               |
| C14               | 75.00'                        | 7°42'25"                                  | 10.09                       | 10.08'                      | S88°37'45"E                               |
| C15               | 25.00'                        | 90.00,00,                                 | 39.27'                      | 35.36'                      | S39*46'33"E                               |
| C16               | 25.00'                        |   | 39.27'                      | 35.36'                      | N50*13'27"E                               |
| C17               | 475.00'                       | 4°26'48"                                  | 36.86'                      | 36.86'                      | S82°33'09"E                               |
| C18               | 75.00'                        | 65°25'13"                                 | 85.64'                      | 81.06'                      | S47°37'08"E                               |
| C19               | 25.00'                        | 90.00.00"                                 | 39.27'                      | 35.36'                      | S30°05'29"W                               |
| C20               | 25.01'                        |   | 40.87'                      | 36.47'                      | N56°42'55"W                               |
| C21               | 125.00'                       | 5°45'09"                                  | 12.55'                      | 12.54'                      | N12'46'20"W                               |
| C22               | 75.00'                        | 20°52'22"                                 | 27.32'                      | 27.17'                      | N05'12'44"W                               |
| C23               | 125.00'                       | 20°52'22"                                 | 45.54'                      | 45.29'                      | S05°12'44"E                               |
| C24               | 75.00'                        | 5°45'09"                                  | 7.53'                       | 7.53'                       | S12°46'20"E                               |
| C25               | 25.02'                        | 98°09'45"                                 | 42.86'                      | 37.81'                      | S39*12'11"W                               |
| C26               | 475.00'                       | 3°16'34"                                  | 27.16'                      | 27.16'                      | S88*13'06"W                               |
| C27               | 25.00'                        | 76°26'13"                                 | 33.35'                      | 30.93'                      | N46'42'43"W                               |
| C28               | 125.00'                       | 7°09'18"                                  | 15.61'                      | 15.60'                      | N12'04'16"W                               |
| C29               | 575.00'                       | 13'09'57"                                 | 132.13'                     | 131.84'                     | N09'03'56"W                               |
| C30               | 625.00'                       | 13'09'57"                                 | 143.62'                     | 143.30'                     | S09'03'56"E                               |
| C31               | 25.00°                        | 110°43'05"                                | 48.31'                      | 41.14'                      | S39°42'38"W                               |
| C32               | 225.00°                       | 50°48'07"                                 | 199.50'                     | 193.03'                     | S69°40'06"W                               |
| C33               | 25.00°                        | 90°00'00"                                 | 39.27'                      | 35.36'                      | S89°16'03"W                               |
| C34               | 600.00°                       |   | 193.45'                     | 192.61'                     | N36°29'45"W                               |
| C35               | 25.00'                        | 88°20'38"                                 | 38.55'                      | 34.84'                      | N16'54'45"E                               |
| C36               | 25.00'                        | 78°27'47"                                 | 34.24'                      | 31.62'                      | N79'41'02"W                               |
| C37               | 325.00'                       | 105°52'05"                                | 600.52'                     | 518.66'                     | N86°36'48"E                               |
| C38               | 156.00'                       | 18°34'48"                                 | 50.59'                      | 50.37'                      | S24°23'22"W                               |
| C39               | 635.55                        | 3'57'29"                                  | 43.90'                      | 43.89'                      | N13'52'21"E                               |
| C40<br>C41        | 25.00'<br>50.00'              | 46°38'44"<br>276°20'21"                   | 20.35'<br>241.15'<br>21.75' | 19.80'<br>66.69'            | S80°22'57"E                               |
| C42               | 25.00'                        | 49°51'15"                                 | 64.62'                      | 21.07'                      | N13'37'30"W                               |
| C43               | 975.00'                       | 3°47'51"                                  |                             | 64.61'                      | N13'12'02"E                               |
| C44               | 25.00'                        | 90°00'00"                                 | 39.27'                      | 35.36'                      | N60°05'58"E                               |
| C45               | 25.00'                        | 90°00'00"                                 | 39.27'                      | 35.36'                      | S29°54'02"E                               |
| C46               | 150.00'                       | 18*34'48"                                 | 48.64'                      | 48.43'                      | N24*23'22"E                               |
| C47               | 25.00'                        | 90*00'00"                                 | 39.27'                      | 35.36'                      | N78*40'46"E                               |
| C48               | 25.00'                        | 90.00'00"                                 | 39.27'                      | 35.36'                      | N11*19'14"W                               |
| C49               | 25.00'                        |   | 39.27'                      | 35.36'                      | S78*40'46"W                               |
| C50               | 25.00'                        | 90.00,00,00,00,00,00,00,00,00,00,00,00,00 | 39.27'                      | 35.36'                      | S11°19'14"E                               |
| C51               | 25.00'                        |   | 39.27'                      | 35.36'                      | N78°40'46"E                               |
| C52               | 25.00'                        | 90.00,00,00,00,00,00,00,00,00,00,00,00,00 | 39.27'                      | 35.36'                      | N11*19'14"W                               |
| C53               | 25.00'                        |   | 39.27'                      | 35.36'                      | S78*40'46"W                               |
| C54<br>C55<br>C56 | 25.00'<br>25.00'<br>25.00'    | 90°00'00"<br>90°00'00"<br>90°00'00"       | 39.27'<br>39.27'            | 35.36'<br>35.36'            | S11*19'14"E<br>N78*40'46"E<br>N78*40'46"E |
| C57               | 25.00'                        | 90'00'00"                                 | 39.27'<br>39.27'            | 35.36'<br>35.36'            | S11°19'14"E                               |
| C58               | 25.00'                        | 90.00,00,00,00,00,00,00,00,00,00,00,00,00 | 39.27'                      | 35.36'                      | S78°40'46"W                               |
| C59               | 25.00'                        |   | 39.27'                      | 35.36'                      | N11°19'14"W                               |
| C60               | 25.00'                        | 90.00,00,                                 | 39.27'                      | 35.36'                      | N78'40'46"E                               |
| C61               | 25.00'                        |   | 39.27'                      | 35.36'                      | S11'19'14"E                               |
| C62               | 74.00'                        | 71*25'12"                                 | 92.24'                      | 86.39'                      | S69*23'22"W                               |
| C63               | 25.00'                        |   | 47.38'                      | 40.60'                      | N20*36'38"W                               |
| C64<br>C65        | 25.00'<br>126.00'             | 90°00'00"<br>71°25'12"<br>90°00'00"       | 39.27'<br>157.06'           | 35.36'<br>147.09'           | S60°05'58"W<br>N69°23'22"E                |
| C66<br>C67        | 25.00'                        | 90'00'00"                                 | 39.27'<br>31.42'<br>24.93'  | 35.36'<br>28.28'            | N78*40'46"E<br>S11*19'14"E                |
| C68<br>C69        | 20.00'                        | 71*25'12"                                 | 39.27                       | 23.35'<br>35.36'            | S69*23'22"W<br>N29*54'02"W                |
| C70               | 25.00'                        | 90.00'00"                                 | 39.27'                      | 35.36'                      | N60°05'58"E                               |
| C71               | 25.00'                        |   | 47.38'                      | 40.60'                      | S20°36'38"E                               |
| C72               | 25.00'                        | 71*25'12"                                 | 31.16'                      | 29.18'                      | S69*23'22"W                               |
| C73               | 25.00'                        | 90*00'00"                                 | 39.27'                      | 35.36'                      | N29*54'02"W                               |
| C74<br>C75        | 25.00'                        | 71*25'12"                                 | 31.16'<br>37.90'            | 29.18'<br>32.48'            | S69°23'22"W<br>N20°36'38"W                |
| C76<br>C77        | 25.00'                        | 90.00,00,00,00,00,00,00,00,00,00,00,00,00 | 31.42'<br>39.27'            | 28.28'<br>35.36'            | N78'40'46"E<br>S11'19'14"E                |
| C78<br>C79        | 25.00'                        | 90°00'00"<br>10°35'17"<br>90°00'00"       | 39.27'<br>42.50'            | 35.36'<br>42.44'            | S89*16'03"W<br>N51*01'36"W<br>N11*19'14"W |
| C80<br>C81        | 25.00'<br>25.00'              | 90.00,00,                                 | 39.27'<br>39.27'            | 35.36'<br>35.36'            | N78°40'46"E                               |
| C82<br>C83        | 50.00'<br>25.00'<br>25.00'    | 10°35'17"<br>90°00'00"<br>90°00'00"       | 9.24'<br>39.27'             | 9.23'<br>35.36'             | S51*01'36"E<br>S00*43'57"E<br>S89*16'03"W |
| C84<br>C85        | 70.00'                        | 10°35'17"<br>90°00'00"                    | 39.27'<br>12.94'<br>39.27'  | 35.36'<br>12.92'            | N51°01'36"W                               |
| C86<br>C87        | 25.00'                        | 100°35'17"                                | 43.89'                      | 35.36'<br>38.47'            | N11'19'14"W<br>N83'58'24"E                |
| C88               | 25.00'                        | 90.00,00,00,00,00,00,00,00,00,00,00,00,00 | 39.27'                      | 35.36'                      | S00°43'57"E                               |
| C89               | 25.00'                        |   | 39.27'                      | 35.36'                      | S89°16'03"W                               |
| C90<br>C91        | 25.00'<br>25.00'<br>25.00'    | 90°00'00"<br>90°00'00"<br>90°00'00"       | 39.27'<br>39.27'            | 35.36'<br>35.36'            | N00°43'57"W<br>N89°16'03"E<br>S00°43'57"E |
| C92<br>C93        | 25.00'                        | 90.00,00,                                 | 39.27'<br>39.27'            | 35.36'<br>35.36'            | S89°16'03"W                               |
| C94               | 25.00'                        | 90.00'00"                                 | 39.27'                      | 35.36'                      | N00°43'57"W                               |
| C95               | 25.01'                        |   | 41.20'                      | 36.70'                      | S88°30'42"E                               |
| C96               | 24.67'                        | 91°32'10"                                 | 39.42'                      | 35.36'                      | S00°43'57"E                               |
| C97               | 25.00'                        |   | 39.27'                      | 35.36'                      | S78°40'46"W                               |
| C98<br>C99        | 25.00'<br>25.00'              | 90°00'00"<br>90°00'00"<br>90°00'00"       | 39.27'<br>39.27'            | 35.36'<br>35.36'<br>35.36'  | N11*19'14"W<br>N78*40'46"E<br>S11*19'14"E |
| C100<br>C101      | 25.00'<br>25.00'              | 90.00,00                                  | 39.27'<br>39.27'            | 35.36'                      | S78°40'46"W                               |
| C102              | 25.00'                        | 90°00'00"                                 | 39.27'                      | 35.36'                      | N11'19'14"W                               |
| C103              | 25.00'                        | 90°00'00"                                 | 39.27'                      | 35.36'                      | N78'40'46"E                               |
| C104              | 151.00'                       | 10°35'17"                                 | 27.90'                      | 27.86'                      | S51°01'36"E                               |
| C105              | 25.00'                        | 79°24'43"                                 | 34.65'                      | 31.94'                      | S06°01'36"E                               |
| C106              | 25.00'                        | 90.00'00"                                 | 39.27'                      | 35.36'                      | S89°16'03"W                               |
| C107              | 203.00'                       |   | 37.51'                      | 37.46'                      | N51°01'36"W                               |
| C108              | 25.00'                        | 90°00'00"                                 | 39.27'                      | 35.36'                      | N11'19'14"W                               |
| C109              | 275.00'                       | 119°03'41"                                | 571.45'                     | 474.05'                     | S86'47'24"E                               |
| C110              | 492.12'                       | 7°10'53"                                  | 61.68'                      | 61.64'                      | S29*58'37"E                               |
| C111              | 25.00'                        | 76°57'44"                                 | 33.58'                      | 31.11'                      | S05*47'11"W                               |
| C112              | 25.00'                        | 88*54'08"                                 | 38.79'                      | 35.01'                      | N70°47'50"W                               |
| C113              | 275.00'                       | 18*56'23"                                 | 90.90'                      | 90.49'                      | S74°13'17"W                               |
| C114              | 575.00'                       | 8°36'00"                                  | 86.31'                      | 86.23'                      | S79°23'29"W                               |
| C115              | 525.00'                       | 14°45'54"                                 | 135.29'                     | 134.92'                     | S82°28'26"W                               |
| C116<br>C117      | 175.00'<br>25.00'             | 50°48'07"<br>90°00'00"<br>90°00'00"       | 155.17'<br>39.27'           | 150.13'<br>35.36'           | S69*40'06"W<br>S00*43'57"E<br>N89*16'03"E |
| C118<br>C119      | 25.00'<br>30.50'<br>50.00'    | 46*24'51"                                 | 39.27'<br>24.71'            | 35.36'<br>24.04'<br>39.41'  | N21°03'37"E<br>N21°03'37"E                |
| C120<br>C121      | 50.00'                        | 46°24'51"<br>180°00'00"<br>46°24'51"      | 40.50'<br>157.08'<br>40.50' | 100.00                      | S45°43'57"E                               |
| C122              | 50.00'                        | 46°24'51"                                 | 40.50'                      | 39.41'                      | S67*28'28"W                               |
| C123              | 30.50'                        | 46°24'51"                                 | 24.71'                      | 24.04'                      | S67*28'28"W                               |
| C124              | 23.00'                        | 180°00'00"                                | 72.26'                      | 46.00'                      | S45°43'57"E                               |
| C125              |                               | 180°00'00"                                | 72.26'                      | 46.00'                      | N45°43'57"W                               |
| C126              | 25.00'                        | 90°00'00"                                 | 39.27'                      | 35.36'                      | S00°43'57"E                               |
| C127              | 500.00'                       | 35°49'42"                                 | 312.66'                     | 307.59'                     | S63°38'48"E                               |
| C128              | 450.00'                       | 30°56'55"                                 | 243.07'                     | 240.13'                     | S66*05'12"E                               |
| C129              | 625.00'                       | 27°05'55"                                 | 295.60'                     | 292.85'                     | S64*09'42"E                               |
| C130              | 25.00'                        | 90°14'59"                                 | 39.38'                      | 35.43'                      | N50°52'15"E                               |
| C131              | 25.00'                        | 89°46'44"                                 | 39.17'                      | 35.29'                      | N39°08'36"W                               |
| C132              | 675.00'                       | 27*24'27"                                 | 322.89'                     | 319.82'                     | N64*18'58"W                               |
| C133              | 400.00'                       | 30*56'55"                                 | 216.06'                     | 213.44'                     | N66*05'12"W                               |
| C134              | 550.00'                       | 35°49'42"                                 | 343.93'                     | 338.35'                     | N63*38'48"W                               |
| C135              | 25.00'                        | 90°00'00"                                 | 39.27'                      | 35.36'                      | S89*16'03"W                               |
| C136              | 30.50'                        | 46°24'51"                                 | 24.71'                      | 24.04'                      | S21°03'37"W                               |
| C137              | 50.00'                        | 46°24'51"                                 | 40.50'                      | 39.41'                      | S21°03'37"W                               |
| C138<br>C139      | 50.00'                        | 180°00'00"<br>46°24'51"                   | 157.08'<br>40.50'           | 39.41                       | N67°28'28"E                               |
| C140              | 30.50'                        | 46°24'51"                                 | 24.71'                      | 24.04'                      | N67*28'28"E                               |
| C141              | 23.00'                        | 180°00'00"                                | 72.26'                      | 46.00'                      | S45*43'57"E                               |
| C142              | 25.00'                        | 180°00'00"                                | 72.26'                      | 46.00'                      | N45'43'57"W                               |
| C143              |                               | 90°00'00"                                 | 39.27'                      | 35.36'                      | N00'43'57"W                               |
| C144<br>C145      | 25.00'<br>30.50'              | 90.00,00,00,00,00,00,00,00,00,00,00,00,00 | 39.27'                      | 35.36'<br>24.04'            | S89°16'03"W<br>S21°03'37"W                |
| C146              | 50.00'                        | 46°24'51"                                 | 40.50'                      | 39.41'                      | S21°03'37"W                               |
| C147              | 50.00'                        | 170°48'09"                                | 149.05'                     | 99.68'                      | N41°08'02"W                               |
| C148              | 50.00'                        | 46*24'51"                                 | 40.50'                      | 39.41                       | N67°28'28"E                               |

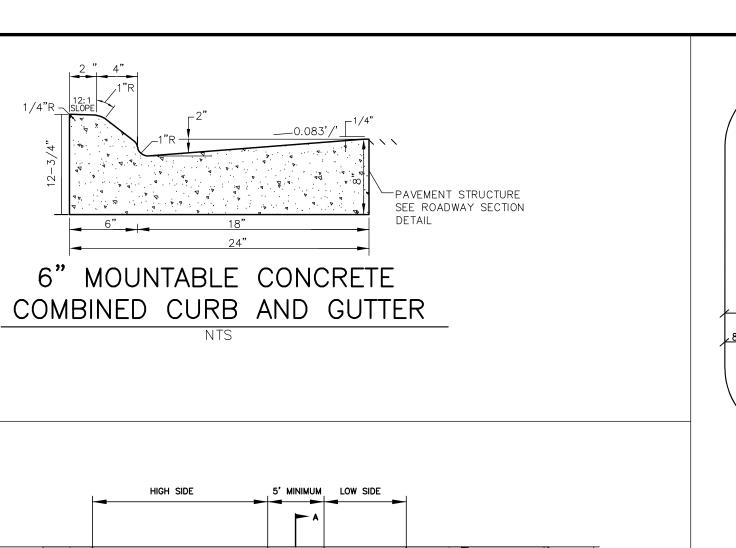
| C151                 | RADIUS              | DELTA ANGLE                         | ARC                        | CHORD                                 | CHORD BEARING              |
|----------------------|---------------------|-------------------------------------|----------------------------|---------------------------------------|----------------------------|
|                      | 23.00               | 180°00'00"                          | 72.26                      | 46.00'                                | N45'43'57"W                |
| C152                 | 25.00'              | 90°00'00"                           | 39.27'                     | 35.36'                                | N00°43'57"W                |
| C153                 | 200.00'             | 10°35'17"                           | 36.96'                     | 36.91'                                | N51°01'36"W                |
| C154                 | 125.00'             | 8*51'47"                            | 19.34'                     | 19.32'                                | N19'20'25"W                |
| C155                 | 125.00'             | 29*47'38"                           | 65.00'                     | 64.27'                                | N38'40'07"W                |
| C156                 | 125.00'             | 26°45'49"                           | 58.39'                     | 57.86'                                | N66*56'50"W                |
| C157                 | 125.00'             | 2°02'28"                            | 4.45'                      | 4.45'                                 | N85*47'47"W                |
| C158                 | 125.00'             | 5*39'58"                            | 12.36'                     | 12.36'                                | N89°38'59"W                |
| C159                 | 525.00'             | 6*03'54"                            | 55.57'                     | 55.55'                                | S84°29'05"W                |
| C160                 | 525.00'             | 6°52'39"                            | 63.02'                     | 62.98'                                | S78°00'49"W                |
| C161                 | 525.00'             | 1°38'56"                            | 15.11'                     | 15.11'                                | S73°45'02"W                |
| C162                 | 250.00'             | 1°26'25"                            | 6.28'                      | 6.28'                                 | S61°48'16"W                |
| C163                 | 250.00'             | 10°24'05"                           | 45.38'                     | 45.32'                                | N67°43'31"E                |
| C164                 | 475.00'<br>475.00'  | 2*48'52"                            | 23.33'<br>97.63'           | 23.33'<br>97.46'                      | N74°20'00"E<br>N81°37'44"E |
| C165<br>C166         | 625.00              | 11°46'36"<br>5°52'31"               | 64.09'                     | 64.06'                                | S05°25'13"E                |
| C167                 | 668.07'             | 6°49'12"                            | 79.52'                     | 79.47'                                | S12°00'12"E                |
| C168                 | 575.00'             | 6°46'39"                            | 68.02'                     | 67.98'                                | N12°15'35"W                |
| C169                 | 575.00'             | 6°23'17"                            | 64.11 <sup>2</sup>         | 64.08'                                | N05°40'37"W                |
| C170                 | 325.00'             | 3°45'02"                            |                            | 21.27'                                | N42°19'40"W                |
| C171                 | 325.00'             | 6°29'51"                            | 36.86'                     | 36.84'                                | N47°27'06"W                |
| C172                 | 325.00'             | 6°36'13"                            | 37.46'                     | 37.44'                                | N54°00'08"W                |
| C173                 | 325.00'             | 6°29'51"                            | 36.86'                     | 36.84 <sup>°</sup> 37.44 <sup>°</sup> | N60°33'10"W                |
| C174                 | 325.00'             | 6°36'13"                            | 37.46'                     |                                       | N67°06'12"W                |
| C175                 | 325.00'             | 6°29'51"                            | 36.86'                     | 36.84°                                | N73'39'15"W                |
| C176                 | 325.00'             | 6°36'13"                            | 37.46'                     | 37.44°                                | N80'12'17"W                |
| C177                 | 325.00'             | 6°29'51"                            | 36.86'                     | 36.84'                                | N86°45'19"W                |
| C178                 | 325.00'             | 6°36'13"                            | 37.46'                     | 37.44'                                | S86°41'39"W                |
| C179                 | 325.00'             | 6°31'45"                            | 37.04                      | 37.02                                 | S80°07'40"W                |
| C180                 | 325.00'             | 6°34'19"                            | 37.28'                     | 37.26'                                | S73°34'38"W                |
| C181                 | 325.00'             | 6°31'45"                            | 37.04'                     | 37.02'                                | S67°01'36"W                |
| C182                 | 325.00'             | 6°34'19"                            | 37.28'                     | 37.26'                                | S60°28'34"W                |
| C183                 | 325.00'             | 6°29'51"                            | 36.86'                     | 36.84'                                | S53°56'29"W                |
| C184                 | 325.00'             | 6°36'13"                            | 37.46'                     | 37.44'                                | S47°23'27"W                |
| C185                 | 325.00'             | 6°04'15"                            | 34.44'                     | 34.42'                                | S41°03'13"W                |
| C186                 | 325.00'             | 4*20'20"                            | 24.61'                     | 24.61'                                | S35°50'56"W                |
| C187                 | 275.00'             | 7*34'15"                            | 36.34'                     | 36.31'                                | N37°27'53"E                |
| C188                 | 275.00'             | 4°13'41"                            | 20.29'                     | 20.29'                                | N43°21'51"E                |
| C189                 | 275.00'             | 15°56'18"                           | 76.50'                     | 76.25'                                | N53°26'51"E                |
| C190                 | 275.00'             | 11°51'53"                           | 56.95                      | 56.84                                 | N67°20'57"E                |
| C191                 | 275.00'             | 10°22'35"                           | 49.80'                     | 49.73'                                | N78°28'11"E                |
| C192                 | 275.00'             | 11°42'40"                           | 56.21'                     | 56.11'                                | N89°30'48"E                |
| C193                 | 275.00'             | 10°22'35"                           | 49.80'                     | 49.73'                                | S79°26'34"E                |
| C194                 | 275.00'             | 11°42'40"                           | 56.21'                     | 56.11'                                | S68°23'57"E                |
| C195                 | 275.00'             | 10°22'35"                           | 49.80'                     | 49.73'                                | S57°21'19"E                |
| C196                 | 275.00'             | 11°42'40"                           | 56.21'                     | 56.11'                                | S46°18'42"E                |
| C197                 | 275.00'             | 10°22'35"                           | 49.80'                     | 49.73'                                | S35'16'04"E                |
| C198                 | 275.00'             | 2°49'13"                            | 13.54'                     | 13.54'                                | S28'40'10"E                |
| C199                 | 492.12'             | 1°13′10″                            | 10.47'                     | 10.47'                                | S26°59'46"E                |
| C200                 | 492.12'             | 4°14′08″                            | 36.38'                     | 36.37'                                | S29°43'25"E                |
| C201                 | 492.12'<br>203.00'  | 1°43'35"<br>8°19'01"                | 14.83'                     | 14.83'<br>29.44'                      | S32°42'16"E                |
| C202<br>C203         | 203.00'             | 2*16'16"                            | 29.47'<br>8.05'            | 8.05'                                 | N49°53'28"W<br>N55°11'06"W |
| C204                 | 599.99'             | 0°43'00"                            | 7.51'                      | 7.51'                                 | S27*37'04"E                |
| C205                 | 600.00'             | 1°54'36"                            | 20.00'                     | 20.00'                                | S28*55'52"E                |
| C206                 | 600.00'             | 4°17'18"                            | 44.91'                     | 44.90'                                | S32°01'49"E                |
| C207                 | 600.00'             | 3°44'25"                            | 39.17'                     | 39.16'                                | S36°02'40"E                |
| C208                 | 600.00'             | 4*58'29"                            | 52.10'                     | 52.08'                                | S40°24'08"E                |
| C209                 | 600.00'             | 2*50'35"                            | 29.77'                     | 29.77'                                | S44°18'40"E                |
| C210                 | 975.00'             | 1°24'18"                            | 23.91'                     | 23.91'                                | S14'23'49"W                |
|                      | 975.00'             | 2°23'33"                            | 40.71'                     | 40.71'                                | N12'29'53"E                |
| C211<br>C212<br>C213 | 596.28'<br>1025.00' | 3°52'37"<br>0°11'55"                | 40.35'<br>3.56'            | 40.34'<br>3.56'                       | N13°46'23"E<br>S15°00'00"W |
| C214                 | 156.00'             | 13°30'17"                           | 36.77'                     | 36.68'                                | N21°51'06"E                |
| C215                 | 156.00'             | 5°04'31"                            | 13.82'                     | 13.81'                                | N31°08'30"E                |
| C216<br>C217         | 126.00'             | 15°21'46"<br>18°09'36"              | 33.78'                     | 33.68'                                | S82°34'55"E<br>N80°39'24"E |
| C218                 | 126.00'             | 14'35'22"                           | 39.94'<br>32.08'           | 39.77'<br>32.00'                      | N64°16'55"E                |
| C219                 | 126.00'             | 14°59'51"                           | 32.98'                     | 32.89'                                | N49°29'19"E                |
| C220                 | 126.00'             | 8°18'37"                            | 18.28'                     | 18.26'                                | N37°50'05"E                |
| C221                 | 50.00'              | 22*50'09"                           | 19.93'                     | 19.80'                                | S79°15'49"W                |
| C222                 | 50.00'              | 23*34'41"                           | 20.58'                     | 20.43'                                | S56°03'23"W                |
| C223                 | 50.00'              | 9°11'51"                            | 8.03'                      | 8.02'                                 | S39°40'07"W                |
| C224                 | 50.00'              | 40°24'04"                           | 35.26'                     | 34.53'                                | S14°52'09"W                |
| C225                 | 50.00'              | 40°24'04"                           | 35.26'                     | 34.53'                                | S25'31'55"E                |
| C226                 | 50.00'              | 40°24'04"                           | 35.26'                     | 34.53'                                | S65'55'59"E                |
| C227                 | 50.00'              | 40°24'04"                           | 35.26'                     | 34.53'                                | N73°39'56"E                |
| C228                 | 50.00'              | 23°34'41"                           | 20.58'                     | 20.43'                                | N32°28'42"E                |
| C229                 | 50.00'              | 22'50'09"                           | 19.93'                     | 19.80'                                | N09'16'17"E                |
| C230                 | 50.00'              | 28'57'23"                           | 25.27'                     | 25.00'                                | S76'12'12"W                |
| C231                 | 50.00'              | 17 <b>°</b> 27 <b>'</b> 27 <b>"</b> | 15.23'                     | 15.18'                                | S52°59'46"W                |
| C232                 | 50.20'              | 50°02'57"                           | 43.85 <sup>2</sup>         | 42.47'                                | S21°23'51"W                |
| C233                 | 50.00'              | 42°03'31"                           |                            | 35.88'                                | S24°42'12"E                |
| C234                 | 50.00'              | 48°43'34"                           | 42.52'                     | 41.25'                                | S70°05'44"E                |
| C235                 | 50.37'              | 43°15'12"                           | 38.03'                     | 37.13'                                | N63°48'44"E                |
| C236                 | 50.00'              | 17°27'27"                           | 15.23 <b>'</b>             | 15.18'                                | N35'32'19"E                |
| C237                 | 50.00'              | 28°57'23"                           | 25.27 <b>'</b>             | 25.00'                                | N12'19'54"E                |
| 238                  | 550.00'<br>550.00'  | 5°14'50"<br>6°15'46"                | 50.37                      | 50.35'<br>60.09'                      | S48°21'22"E<br>S54°06'40"E |
| C239<br>C240<br>C241 | 550.00'<br>550.00'  | 6°15'46"<br>6°15'46"                | 60.12'<br>60.12'<br>60.12' | 60.09'                                | S60°22'27"E<br>S66°38'13"E |
| C242                 | 550.00'             | 6°15'46"                            | 60.12                      | 60.09                                 | S72°53'59"E                |
| C243                 | 550.00°             | 5°31'47"                            | 53.08'                     | 53.06'                                | S78°47'46"E                |
| C244                 | 400.00°             | 5°40'19"                            | 39.60'                     | 39.58'                                | S78°43'30"E                |
| C245                 | 675.00'             | 3°56'01"                            | 46.34 <sup>2</sup>         | 46.33 <sup>'</sup>                    | S79°59'13"E                |
| C246                 | 625.00'             | 4°14'33"                            | 46.28 <sup>2</sup>         | 46.27 <sup>'</sup>                    | N79°49'57"W                |
| C247                 | 450.00'             | 8*02'06"                            | 63.11'                     | 63.05'                                | N54*37'48"W                |
| C248                 | 450.00'             | 7*58'56"                            | 62.69'                     | 62.64'                                | N62*38'18"W                |
| C249                 | 450.00'             | 7.59'01"                            | 62.70'                     | 62.65'                                | N70°37'17"W                |
| C250                 | 450.00'             |                                     | 54.57'                     | 54.53'                                | N78°05'13"W                |
| C251<br>C252         | 500.00'<br>500.00'  | 6*56'52"<br>8*32'06"<br>9*35'57"    | 74.48'<br>83.77'           | 74.41'<br>83.67'                      | N77°17'36"W<br>N68°13'34"W |
| 0252<br>0253<br>0254 | 500.00              | 9'37'04"<br>8'04'34"                | 83.93'                     | 83.83'                                | N58*37'04"W<br>N49*46'14"W |
| 2255                 | 50.00'              | 28 <b>*</b> 57 <b>'</b> 23 <b>"</b> | 70.48'<br>25.27'           | 70.42'<br>25.00'                      | N76°12'12"E                |
| C256                 | 50.00'              | 17*27'27"                           | 15.23'                     | 15.18'                                | N52*59'46"E                |
| C257                 | 50.00'              | 15*03'38"                           | 13.14'                     | 13.10'                                | N36*44'14"E                |
| C258                 | 50.00'              | 37°28'11"                           | 32.70'                     | 32.12'                                | N10°28'19"E                |
| C259                 | 50.00'              | 37°28'11"                           | 32.70'                     | 32.12'                                | N26°59'52"W                |
| C260                 | 50.00'              | 37°28'11"                           | 32.70'                     | 32.12'                                | N64*28'03"W                |
| C261                 | 50.00'              | 37°28'11"                           | 32.70'                     | 32.12'                                | S78*03'46"W                |
| C262                 | 50.00'              | 15°03'38"                           | 13.14'                     | 13.10'                                | S51°47'52"W                |
| C263                 | 50.00'              | 17°27'27"                           | 15.23'                     | 15.18'                                | S35°32'19"W                |
| C264                 | 50.00               | 28°57'23"                           | 25.27                      | 25.00                                 | S12*19'54"W                |

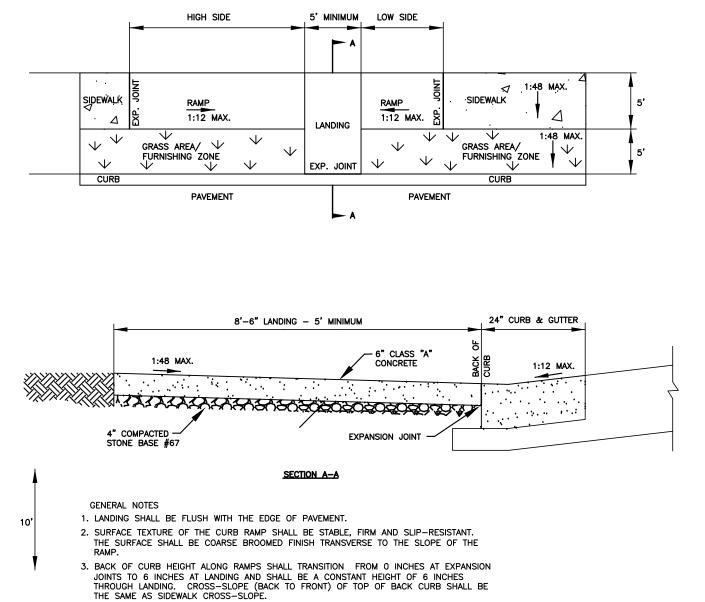
# PRELIMINARY PLAT PLEASANT CREEK

TOWN OF THOMPSON'S STATION,
4th CIVIL DISTRICT WILLIAMSON COUNTY, TENNESSEE
PLEASANT CREEK INVESTMENTS, LLC
144 SOUTHEAST PARKWAY
SUITE 230
FRANKLIN, TN 37064

PHONE (615) 238-4958

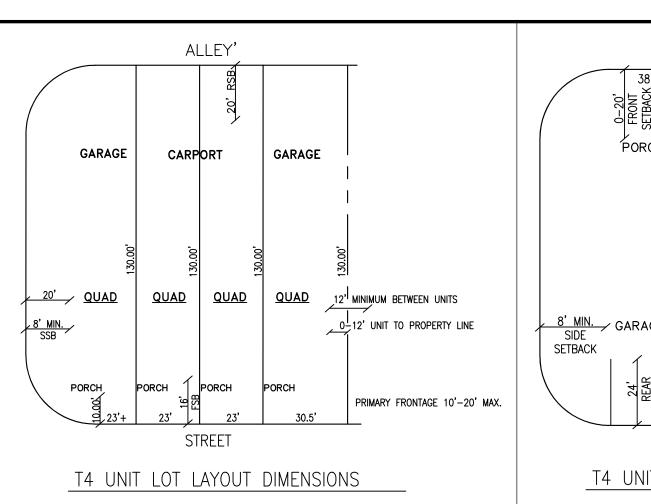






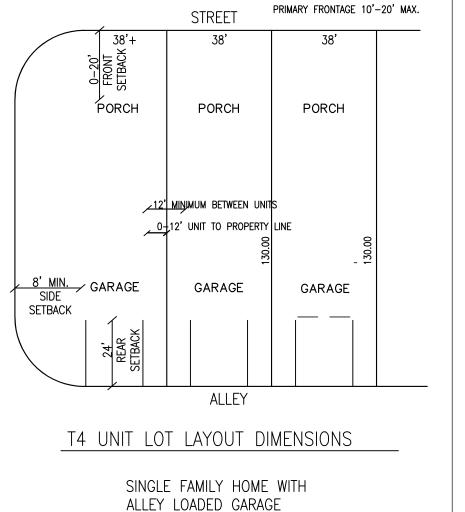
SIDEWALK

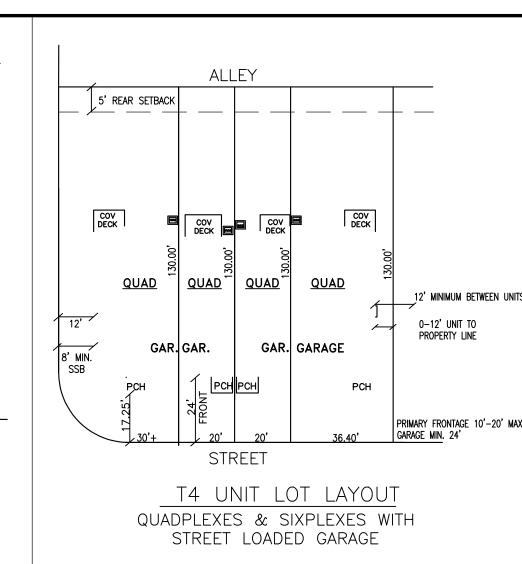
4. HIGH SIDE AND LOW SIDE RAMPS SHALL HAVE A MAXIMUM SLOPE OF 1:12 (VERTICAL:HORIZONTAL) AND SHALL NOT BE REQUIRED TO EXCEED 8 FEET (96 INCHES) IN LENGTH.

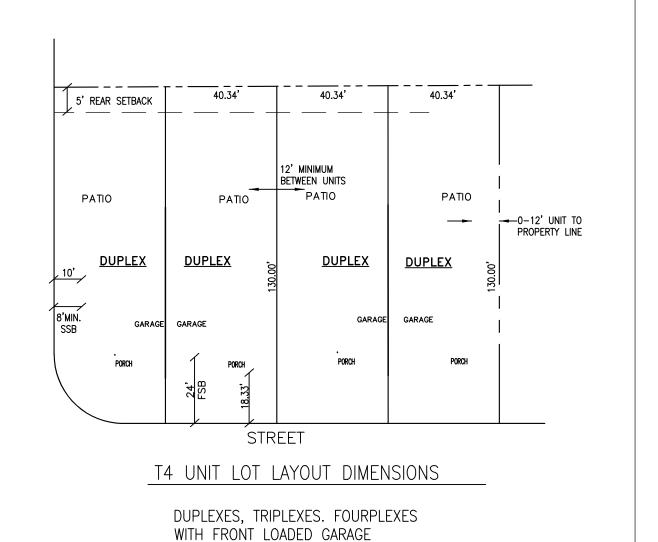


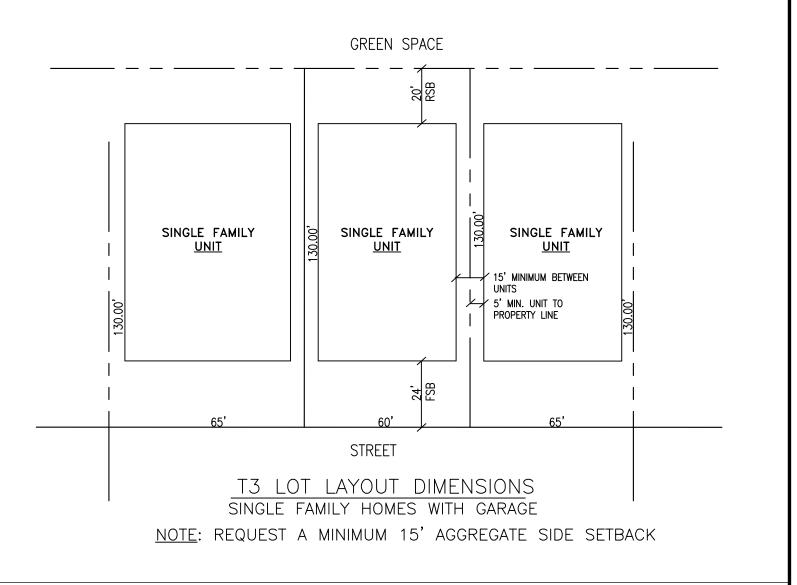
QUADPLEXES & SIXPLEXES WITH

REAR LOADED GARAGE or CARPORT









# DETAILS

# PRELIMINARY PLAT PLEASANT CREEK

TOWN OF THOMPSON'S STATION,
4th CIVIL DISTRICT WILLIAMSON COUNTY, TENNESSEE

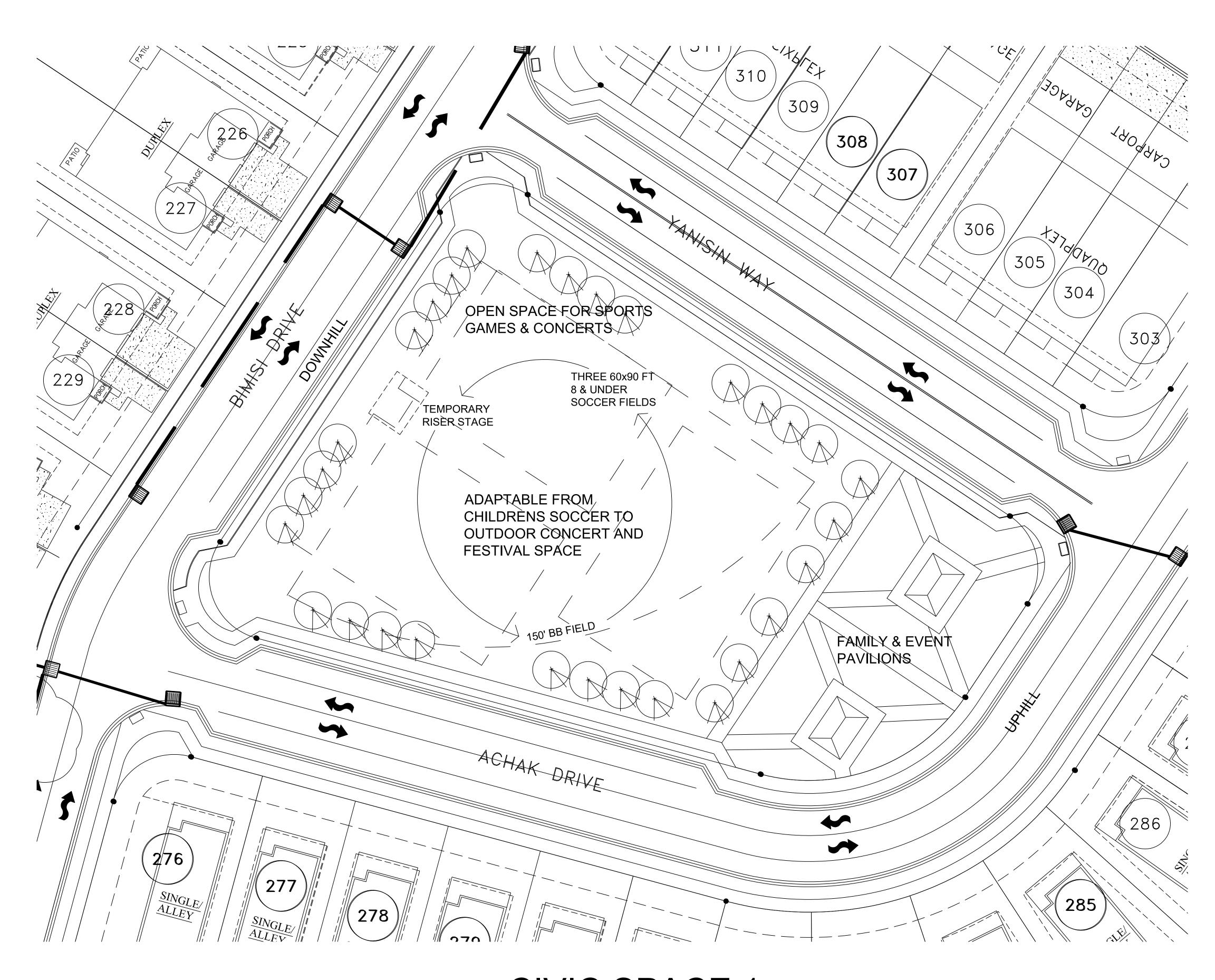
PLEASANT CREEK INVESTMENTS, LLC

144 SOUTHEAST PARKWAY

SUITE 230

FRANKLIN, TN 37064
PHONE (615) 238-4958

9/02/20 SHEET 14 OF 22



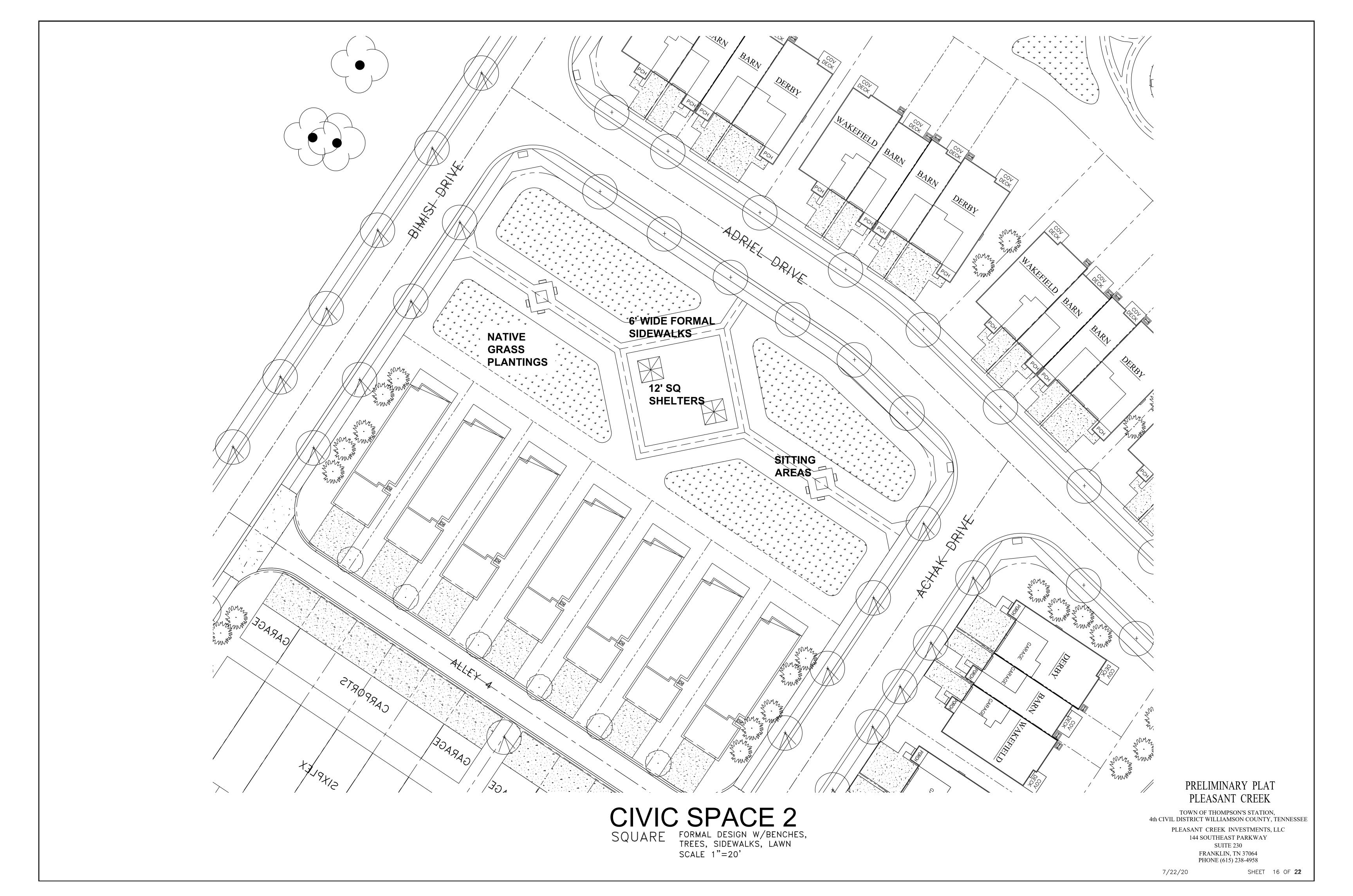
PRELIMINARY PLAT PLEASANT CREEK

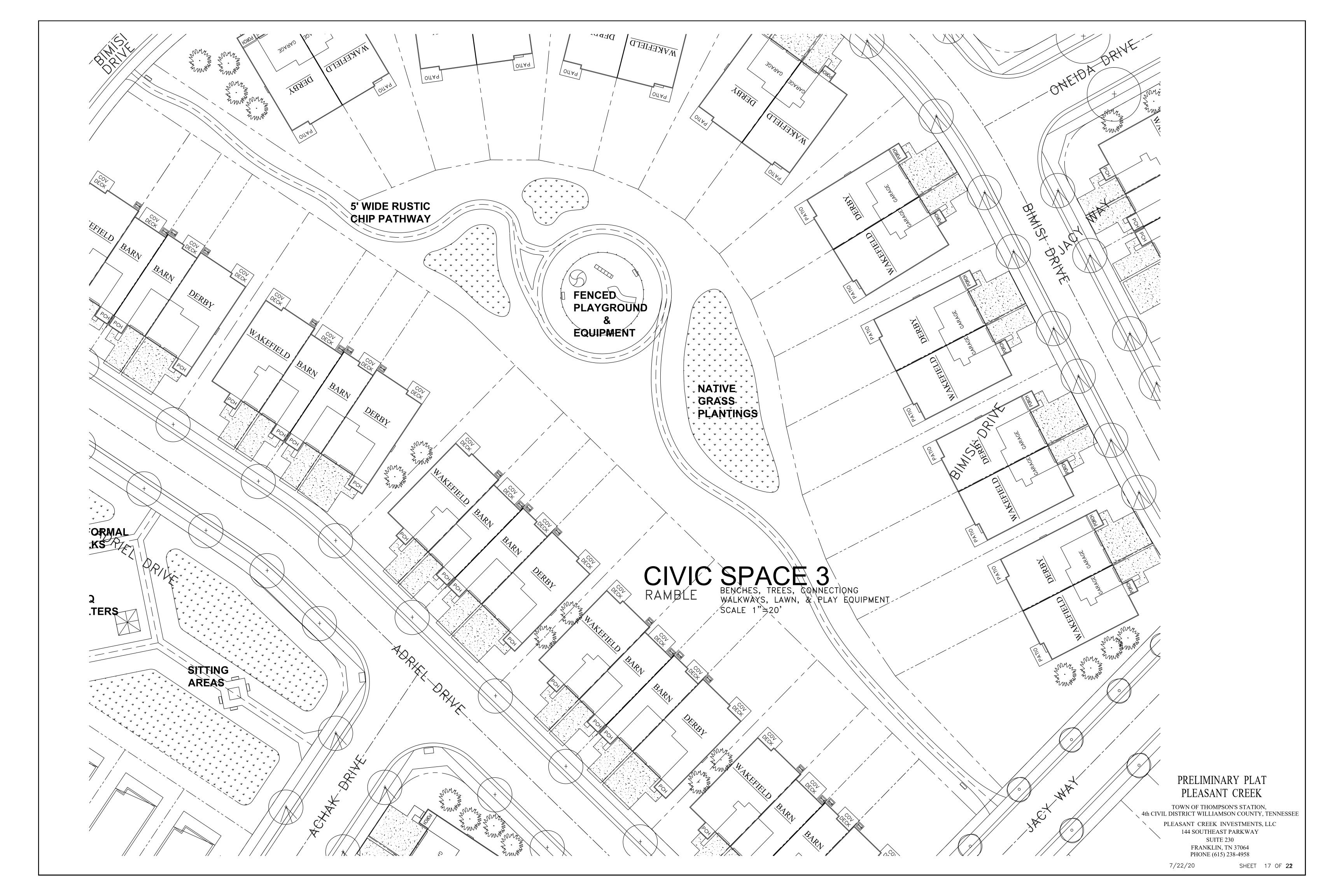
CIVIC SPACE 1
SQUARE MULTIPURPOSE ADAPTABLE RECREATION SPACE SCALE 1"=20'

PLEASANT CREEK INVESTMENTS, LLC
144 SOUTHEAST PARKWAY
SUITE 230
FRANKLIN, TN 37064
PHONE (615) 238-4958
TOWN OF THOMPSON'S STATION,

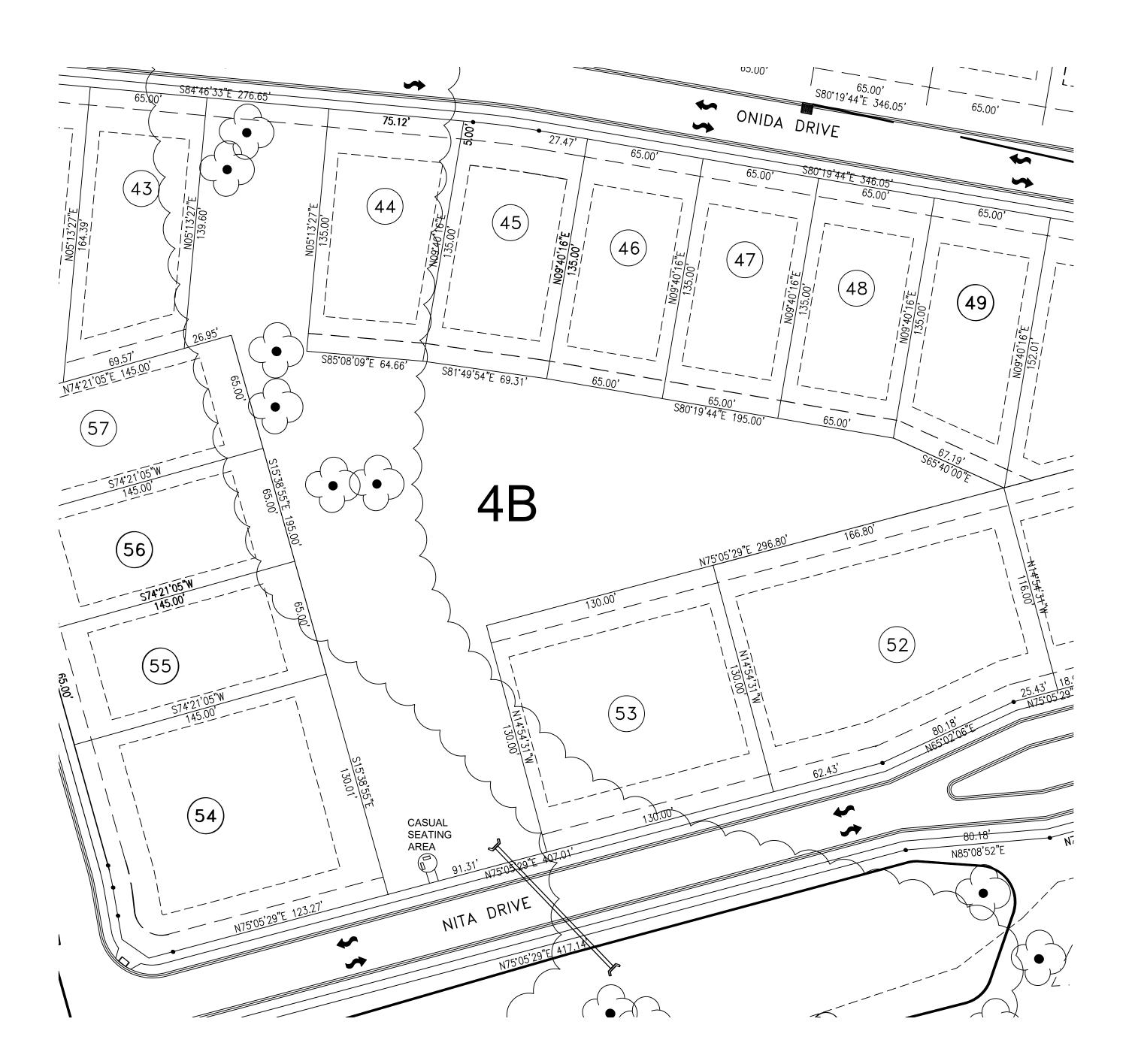
TOWN OF THOMPSON'S STATION, 4th CIVIL DISTRICT WILLIAMSON COUNTY, TENNESSEE

7/22/20 SHEET 15 OF **22** 









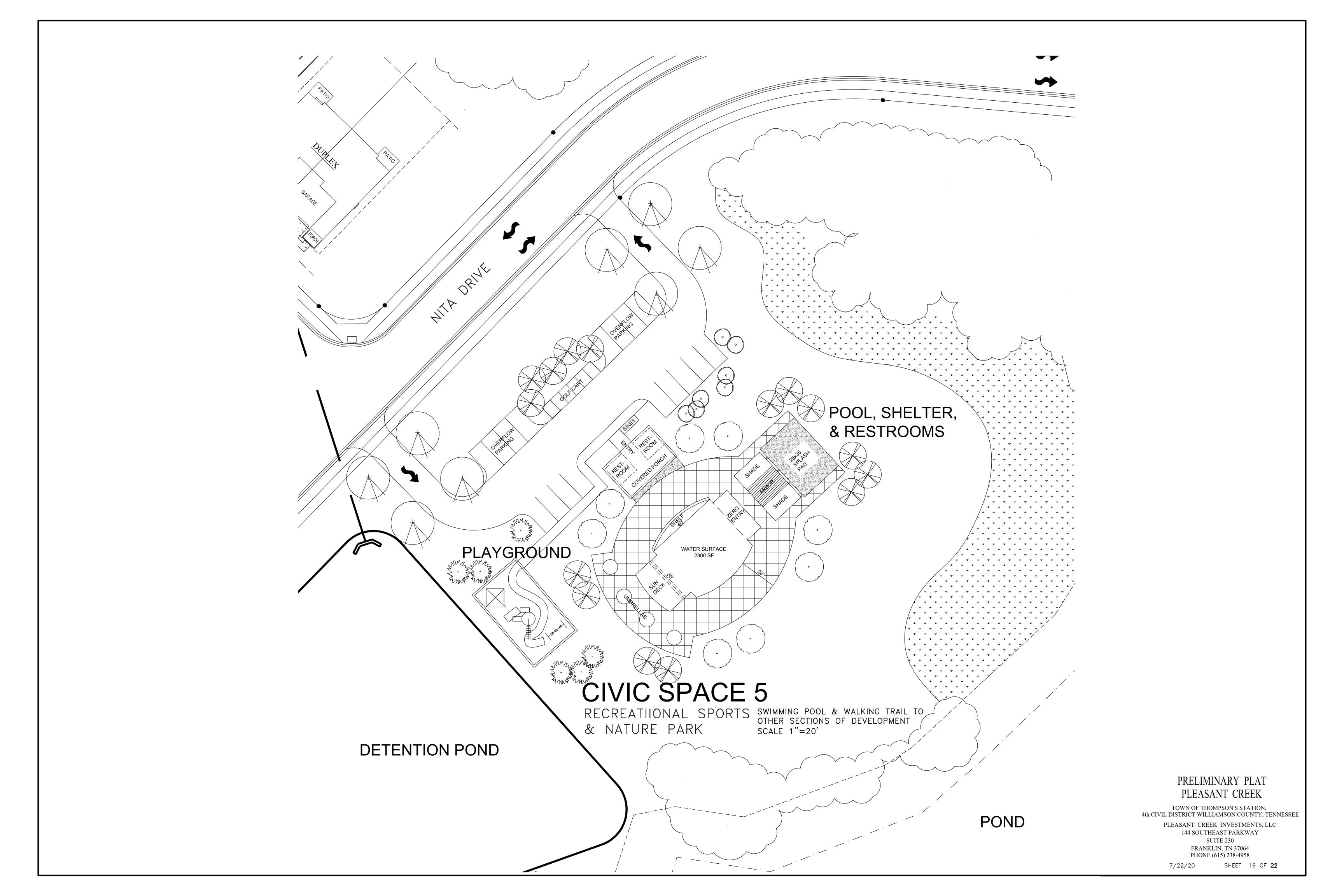
CIVIC SPACES 4A & 4B
PARKS UNDEVELOPED AREAS HANDLING DRAINAGE
ACROSS THE SITE CONTAINING A FEW
BENCHES AND PATCHES OF LAWN
SCALE 1"=40"

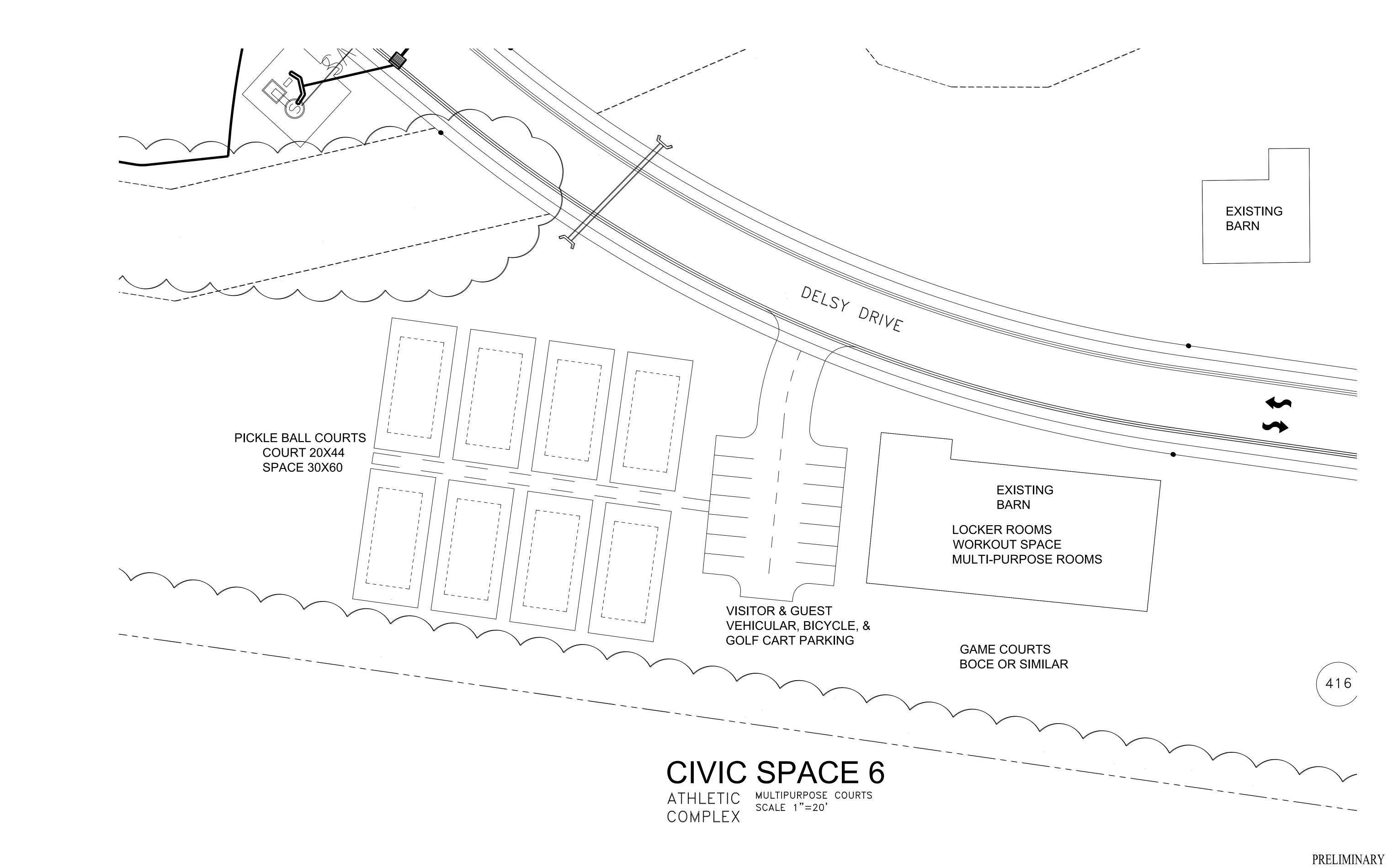
## PRELIMINARY PLAT PLEASANT CREEK

TOWN OF THOMPSON'S STATION, 4th CIVIL DISTRICT WILLIAMSON COUNTY, TENNESSEE PLEASANT CREEK INVESTMENTS, LLC 144 SOUTHEAST PARKWAY SUITE 230 FRANKLIN, TN 37064 PHONE (615) 238-4958

7/22/20

SHEET 18 OF **22** 



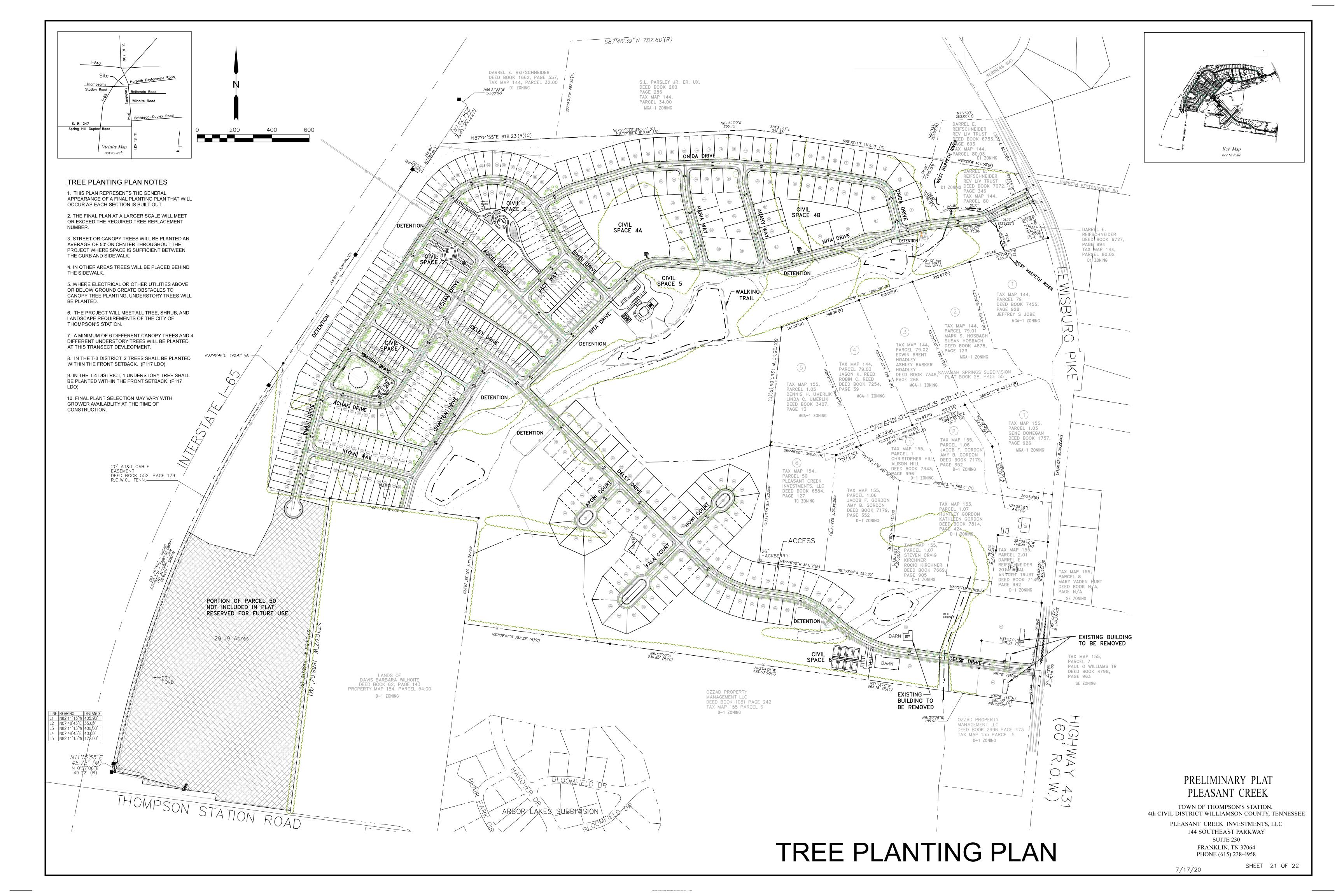


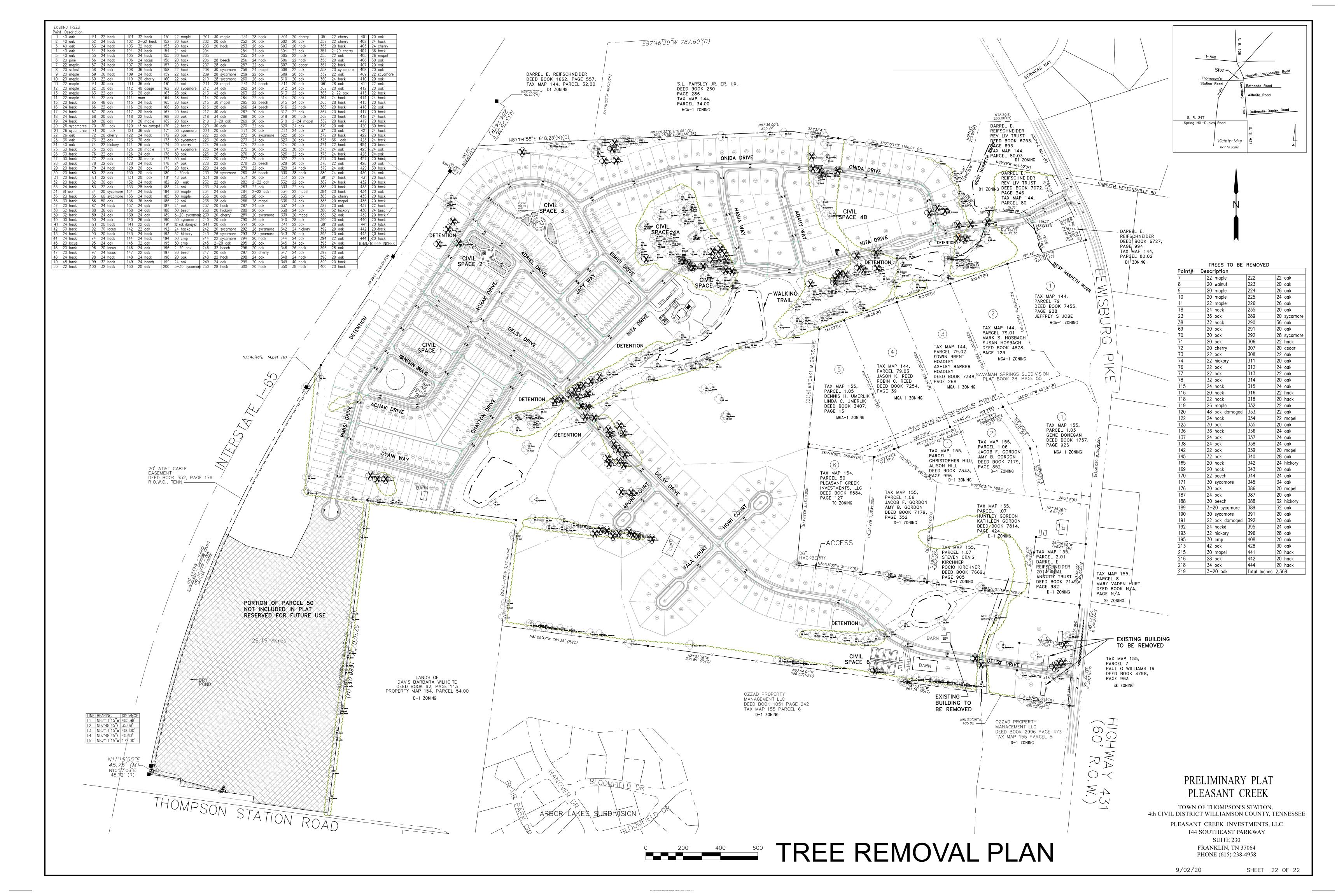
## PRELIMINARY PLAT PLEASANT CREEK

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144 SOUTHEAST PARKWAY
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TOWN OF THOMPSON'S STATION,
4th CIVIL DISTRICT WILLIAMSON COUNTY, TENNESSEE

7/22/20

SHEET 20 OF **22** 

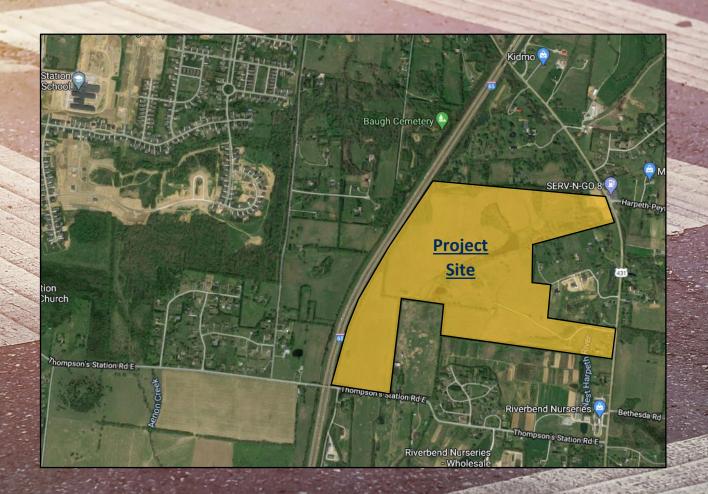






# TRAFFIC IMPACT STUDY

PLEASANT CREEK
THOMPSON'S STATION, TENNESSEE



PREPARED FOR:
PLEASANT CREEK INVESTMENTS, LLC
SEPTEMBER 2020

KCI TECHNOLOGIES, INC. // 500 11TH AVENUE NORTH, NASHVILLE, TN 37203 // KCI.COM

# TRAFFIC IMPACT STUDY PLEASANT CREEK THOMPSON'S STATION, TENNESSEE

# PREPARED FOR: PLEASANT CREEK INVESTMENTS, LLC



# PREPARED BY: KCI TECHNOLOGIES, INC

500 11<sup>th</sup> Avenue North, Suite 290 Nashville, TN 37203 615.370.8410 office 615.370.8455 fax www.kci.com

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## **EXECUTIVE SUMMARY**

## **Project Description**

The proposed Pleasant Creek development is located on the west side of Lewisburg Pike (SR 106/US 431), east of I-65 in Thompson's Station, Tennessee. According to the developer, the proposed development includes approximately 327 single-family residential homes, 90 single-family townhomes, 5,500 square feet of retail, 2,000 square feet of fitness center, and 2,000 square feet of bank on approximately 179 acres. Access to the development is planned to be provided by two access drives, located along Lewisburg Pike (SR 106/US 431). The northern access will be provided via the new eastbound approach to the intersection of Lewisburg Pike (SR 106/US 431) and Harpeth Peytonsville Road. The southern access will be located approximately 1,100 feet north of the intersection of Lewisburg Pike (SR 106/US 431) and Bethesda Road. The purpose of this study is to analyze the access plan and the traffic impacts associated with this proposed development.

## **Data Collection**

In order to provide data for the traffic impact analysis, manual traffic counts were conducted at the following intersections:

- 1. Lewisburg Pike (SR 106/US 431) and Thompson's Station Road East (unsignalized)
- 2. Lewisburg Pike (SR 106/US 431) and Bethesda Road (unsignalized)
- 3. Lewisburg Pike (SR 106/US 431) and Harpeth-Peytonsville Road (unsignalized)
- 4. Thompson's Station Road East and Buckner Lane (signalized)
- 5. Thompson's Station Road East and Pantall Road (unsignalized)

KCI Technologies, Inc. conducted the traffic counts from 7:00 – 9:00 AM and 4:00 – 6:00 PM on a typical weekday in July 2020; however, given the changes in traffic patterns resulting from Covid-19, these counts were compared to historic counts as a point of reference. Traffic volumes from counts gathered as part of Thompson's Station 2015 Comprehensive Traffic Study were grown at an annual growth rate of 7% for five years to make this evaluation. The growth rate was based upon historic TDOT AADT data from nearby count stations. To be conservative, the maximum turning movement volumes from either of the count methodologies (i.e., the existing (2020) volumes or the grown volumes using 2015 counts) were utilized for this study.



## **Projection of Future Traffic Volumes**

In order to account for the traffic growth prior to the completion of the proposed project, background traffic volumes were established. Then, the estimated total project-generated traffic volumes for the proposed development were added to the background peak hour traffic volumes in order to obtain the total projected peak hour traffic volumes for the study area intersections.

## **Conclusions and Recommendations**

The analyses presented in this study indicate that the impacts of the proposed project on the existing street network will be manageable by providing the recommendations below. These specific recommendations will provide safe and efficient traffic operations within the study area following the completion of the proposed project. The recommendations are as follows:

## Lewisburg Pike (SR 106/US 431) and Harpeth-Peytonsville Road/Site Access A

- Preliminary signal warrant analysis determined that a signal is warranted under existing conditions. However, these preliminary analyses were based on traffic projections made due to Covid-19 and not on actual counts representing traffic conditions without the impacts of Covid-19. Therefore, a full signal warrant analysis should be completed when traffic conditions have stabilized and prior to the completion of 35 lots within the Pleasant Creek development.
- Until a signal is installed, the eastbound approach of Site Access A should be stop-controlled, and a stop bar and R1-1 'Stop' sign should be installed on the egress approach.
- Site Access A should be designed to include sufficient width for one entering lane and three exiting lanes. The exiting approach should include one left-turn lane with a minimum of 125 feet of storage, one through lane, and one right-turn lane with a minimum of 125 feet of storage.
- Provide a northbound left-turn lane on Lewisburg Pike (SR 106/US 431) with a minimum of 150 feet of storage length.
- Provide a southbound right-turn lane on Lewisburg Pike (SR 106/US 431) with a minimum of 75 feet of storage length.

## Lewisburg Pike (SR 106/US 431) and Site Access B

• The eastbound approach of Site Access B should be stop-controlled, and a stop bar and R1-1 'Stop' sign should be installed on the egress approach.

- Site Access B should be designed to include sufficient width for one entering lane and two exiting lanes. The exiting approach should include one left-turn lane and one right-turn lane.
- Provide a northbound left-turn lane on Lewisburg Pike (SR 106/US 431) with a minimum of 150 feet of storage length.
- Provide a southbound right-turn lane on Lewisburg Pike (SR 106/US 431) with a minimum of 75 feet of storage length.

### <u>Additional Recommendations</u>

- As part of the construction of the project, all internal and external roadway connections should be designed such that the departure sight triangles, as specified by AASHTO, will be clear of all sight obstructions, including landscaping, existing vegetation, monument signs/walls, fences, etc.
- Final design of internal roadways and parking should meet all Town of Thompson's Station standards. Internal intersections should be two-way stopcontrolled unless all-way stop control warrants are met.

In summary, based on the analyses conducted, no further recommendations are presented for the proposed Pleasant Creek development.



#### 1. INTRODUCTION AND PROJECT DESCRIPTION

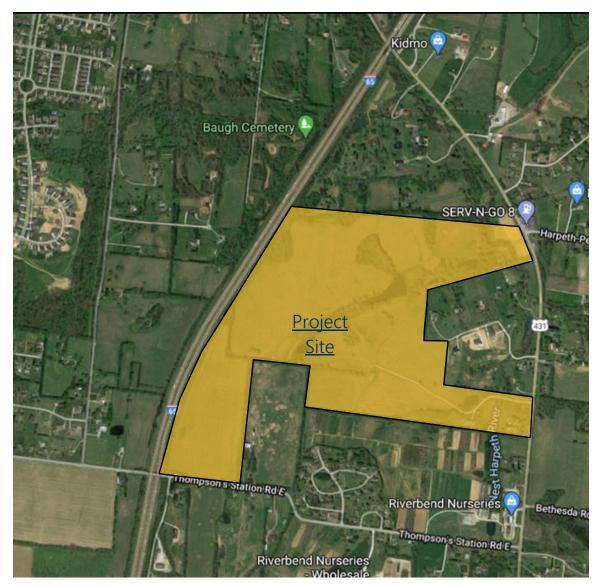
The purpose of this study is to analyze the traffic impacts and access plan associated with the proposed Pleasant Creek development located on the west side of Lewisburg Pike (SR 106/US 431), east of I-65 in Thompson's Station, Tennessee. According to the developer, the proposed development includes approximately 327 single-family residential homes, 90 single-family townhomes, 5,500 square feet of retail, 2,000 square feet of fitness center, and 2,000 square feet of bank on approximately 179 acres.

As shown by Figure 1, the property is located along Lewisburg Pike (SR 106/US 431) northwest of the intersection of Lewisburg Pike (SR 106/US 431) and Thompson's Station Road East. The property is currently zoned TC (Transect Community). The proposed development is within an area that is characterized by low-density land uses. The property is generally bounded on the west by I-65, on the south by Thompson Station Road and existing residential developments, on the east by Lewisburg Pike (SR 106/US 431), and on the north by undeveloped land and residential developments.

The current site plan for the Pleasant Creek development is shown in Appendix A. Based on this site plan, proposed vehicular access for the development is planned to be provided by two access drives, located along Lewisburg Pike (SR 106/US 431). The northern access will be provided via the new eastbound approach to the intersection of Lewisburg Pike (SR 106/US 431) and Harpeth Peytonsville Road. The southern access will be located approximately 1,100 feet north of the intersection of Lewisburg Pike (SR 106/US 431) and Bethesda Road. Surface parking is planned to accommodate the proposed development.

In this study, the current operating characteristics of the adjacent roadways and intersections in the vicinity of the project site are evaluated. The expected trips generated by the proposed development are determined and distributed to the roadway network. The adjacent roadways and intersections are then reevaluated to determine the anticipated traffic impacts of the project. Finally, recommendations are presented, including roadway improvements and/or traffic control improvements that are needed to accommodate the expected traffic.

# FIGURE 1. LOCATION OF THE PROJECT SITE



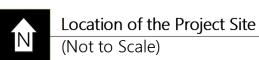


Figure 1.

#### 2. EXISTING CONDITIONS

# 2.1 Existing Roadway Network

Local access to the site will be provided by Lewisburg Pike (SR 106/US 431), Thompson's Station Road East, Bethesda Road, Harpeth-Peytonsville Road, Buckner Lane, and Pantall Road. A description of these roadways within the project vicinity is as follows:

Lewisburg Pike (SR 106/US 431) is a two-way roadway that generally travels in a north-south direction with one travel lane in each direction. Within the study area, Lewisburg Pike (SR 106/US 431) provides connection between I-840 to the north and Thompson's Station Road East to the south. According to the Thompson's Station's Major Thoroughfare Plan, Lewisburg Pike (SR 106/US 431) is categorized as an urban arterial in the vicinity of the



Lewisburg Pike looking north, east of the project site

project site. The posted speed limit on Lewisburg Pike (SR 106/US 431) is 55 mph near the project site. No sidewalks, on-street parking, transit, or bicycle facilities are provided on Lewisburg Pike (SR 106/US 431) near the project site.

Thompson's Station Road East is a two-way roadway that generally travels in an east-west direction with one travel lane in each direction. Thompson's Station Road East provides connection between US 31 to the west and Lewisburg Pike (SR 106/US 431) to the east. According to the Thompson's Station's Major Thoroughfare Plan, Thompson's Station Road East is categorized as



Thompson's Station Road East looking east, south of the project site

an urban collector in the vicinity of the project site. The posted speed limit on Thompson's Station Road East is 45 mph near the project site. No sidewalks, on-street parking, transit, or bicycle facilities are provided on Thompson's Station Road East near the project site.

Bethesda Road is a two-way roadway that generally travels in an east-west direction with one travel lane in each direction. Within the study area, Bethesda Road provides connection between Lewisburg Pike (SR 106/US 431) to the west and Bethesda-Duplex Road to the east. Because Bethesda Road is within Williamson County, and outside the boundaries of Thompson's



Station, it is not functionally classified in the Town of Thompson's Station's *Major Thoroughfare Plan*. However, according to TDOT's Functional Classification Map, Bethesda Road is categorized as a minor collector in the vicinity of the project site. The posted speed limit on Bethesda Road is 45 mph near the project site. No sidewalks, on-street parking, transit, or bicycle facilities are provided on Bethesda Road near the project site.

Harpeth-Peytonsville Road is a two-way that generally travels in an east-west direction with one travel lane in each direction. Within the study area, Harpeth-Peytonsville Road provides connection between Lewisburg Pike (SR 106/US 431) to the west and Peytonsville-Trinity Road near I-840 to the east. Because Harpeth-Peytonsville Road is within Williamson



County, and outside the boundaries of Thompson's Station, it is not functionally classified in the Town of Thompson's Station's *Major Thoroughfare Plan*. However, according to TDOT's Functional Classification Map, Harpeth-Peytonsville is categorized as a minor collector in the vicinity of the project site. The posted speed limit on Harpeth-Peytonsville Road is 50 mph near the project site. No sidewalks, on-street parking, transit, or bicycle facilities are provided on Harpeth-Peytonsville Road near the project site.

**Buckner Lane** is a two-way roadway that generally travels in a north-south direction with one travel lane in each direction. Within the study area, Buckner Lane provides connection between Thompson's Station Road East to the north and Highway 247 to the south. Because Buckner Lane is within the City of Spring Hill, it is not functionally classified in the Town of Thompson's Station's



Major Thoroughfare Plan. However, according to the TDOT Functional Classification Map, Buckner Lane is categorized as a major collector in the vicinity of the project site. The posted speed limit on Buckner Lane is 40 mph near the project site. No sidewalks, on-street parking, transit, or bicycle facilities are provided on Buckner Lane near the project site.

**Pantall Road** is a two-way roadway that generally travels in a north-south direction with one travel lane in each direction. Within the study area, Pantall Road provides connection between Thompson's Station Road East to the south and Critz Lane to the north, near Lewisburg Pike (SR 106/US 431). According to the Thompson's Station's *Major Thoroughfare Plan*, Pantall Road is



categorized as an urban collector in the vicinity of the project site. The posted speed limit on Pantall Road is 40 mph near the project site. No sidewalks, on-street parking, transit, or bicycle facilities are provided on Pantall Road near the project site.

The study area includes five existing intersections described as follows:

Lewisburg Pike (SR 106/US 431) and Thompson's Station Road East is an unsignalized intersection with three approaches. The northbound approach of Lewisburg Pike (SR 106/US 431) operates freely and includes one lane for all movements. The eastbound approach of Thompson's Station Road East is stopcontrolled and includes one lane for all movements. The southbound approach of



Lewisburg Pike (SR 106/US 431) operates freely and includes one lane for all movements. No pedestrian, bicycle, or transit facilities exist at the intersection.

**Lewisburg Pike (SR 106/US 431) and Bethesda Road** is an unsignalized intersection with three approaches. The northbound approach of Lewisburg Pike (SR 106/US 431) operates freely and includes one lane for all movements. The southbound approach of Lewisburg Pike (SR 106/US 431) operates freely and includes one lane for all movements. The westbound approach of Bethesda Road is stop-controlled and



includes one lane for all movements. No pedestrian, bicycle, or transit facilities exist at the intersection.

Lewisburg Pike (SR 106/US 431) and Harpeth-Peytonsville Road is an unsignalized intersection with three approaches. The northbound approach of Lewisburg Pike (SR 106/US 431) operates freely and includes one lane for all movements. The southbound approach of Lewisburg Pike (SR 106/US 431) operates freely and includes one lane for all



movements. The westbound approach of Harpeth-Peytonsville Road is stop-controlled and includes one lane for all movements. No pedestrian, bicycle, or transit facilities exist at the intersection.

Thompson's Station Road East and Buckner Lane is a signalized intersection with three approaches. The northbound approach of Buckner Lane incudes one lane for all movements. The eastbound approach of Thompson's Station Road East includes one lane for all movements. The westbound approach of Thompson's Station Road East includes one lane for all movements. Protected-permitted left-turn signal phasing is provided on the westbound approach. No pedestrian, bicycle, or transit facilities exist at the intersection.



Looking west on Thompson's Station Road East at Buckner Lane

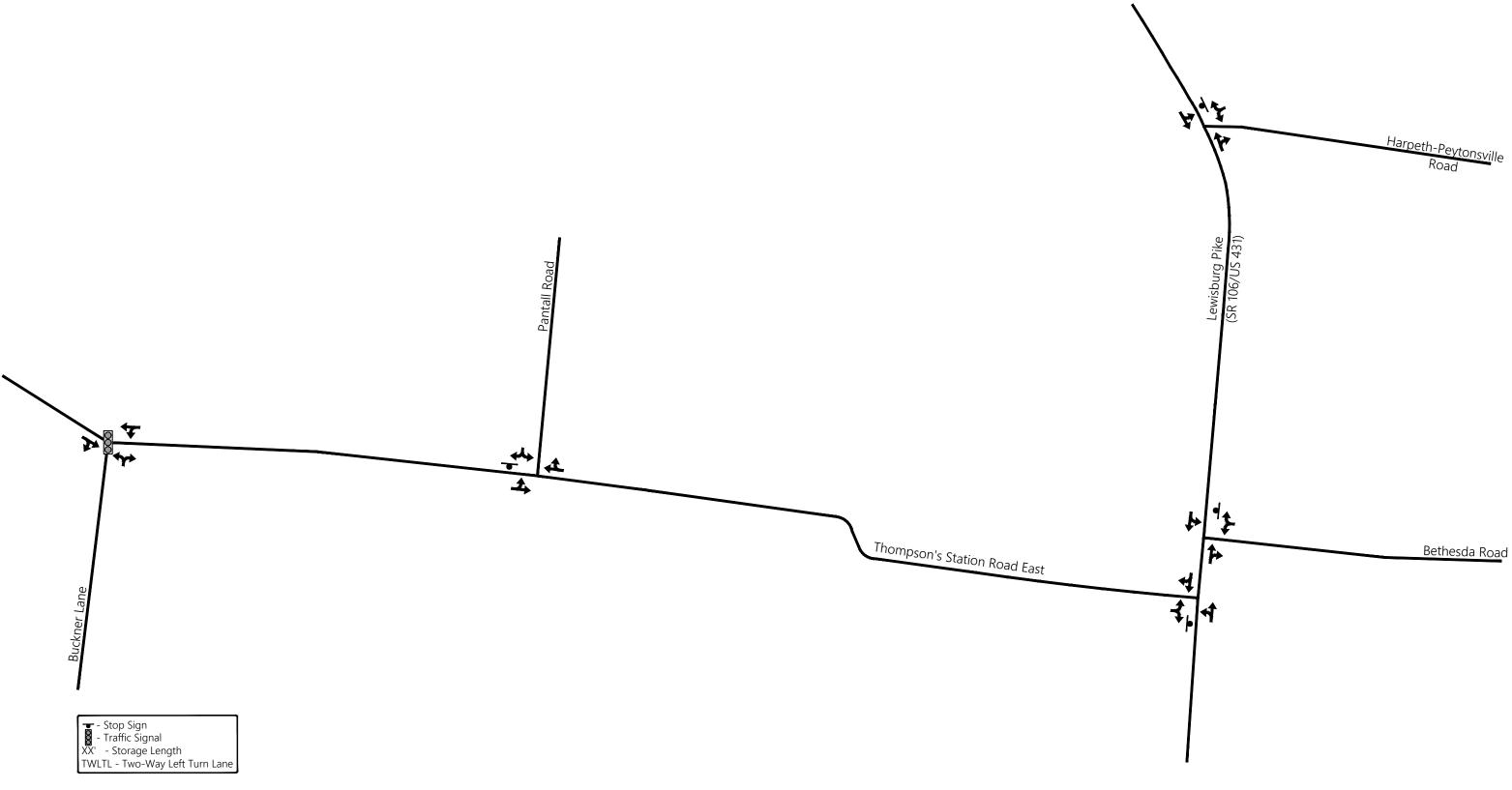
Thompson's Station Road East and Pantall Road is an unsignalized intersection with three approaches. The eastbound approach of Thompson's Station Road East operates freely and includes one lane for all movements. The southbound approach of Pantall Road is stop-controlled and includes one lane for all movements. The westbound approach of Thompson's Station Road East operates freely and includes one lane for all



movements. No pedestrian, bicycle, or transit facilities exist at the intersection.

The existing laneage at the study intersections is illustrated in Figure 2.

Pleasant Creek - Traffic Impact Study
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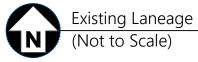


Figure 2.

# 2.2 Existing Traffic Volumes

In order to provide data for the traffic impact analysis, traffic counts were conducted at the following intersections:

- 1. Lewisburg Pike (SR 106/US 431) and Thompson's Station Road East (unsignalized)
- 2. Lewisburg Pike (SR 106/US 431) and Bethesda Road (unsignalized)
- 3. Lewisburg Pike (SR 106/US 431) and Harpeth-Peytonsville Road (unsignalized)
- 4. Thompson's Station Road East and Buckner Lane (signalized)
- 5. Thompson's Station Road East and Pantall Road (unsignalized)

KCI Technologies, Inc. conducted traffic counts from 7:00-9:00 AM and 4:00-6:00 PM on a typical weekday in July 2020; however, given the changes in traffic patterns resulting from Covid-19, these counts were compared to historic counts. Traffic counts gathered as part of Thompson's Station 2015 Comprehensive Traffic Study were grown at an annual growth rate of 7% for five years to make this evaluation. The growth rate was based upon historic TDOT AADT data from nearby count stations. To be conservative, the maximum turning movement volumes from either of the count methodologies (i.e., the existing (2020) volumes or the grown volumes using 2015 counts) were utilized for this study. These volumes were then balanced between all study intersections. The existing peak hour turning movement volumes are presented in Figure 3. A detailed summary of the traffic counts is included in Appendix B.

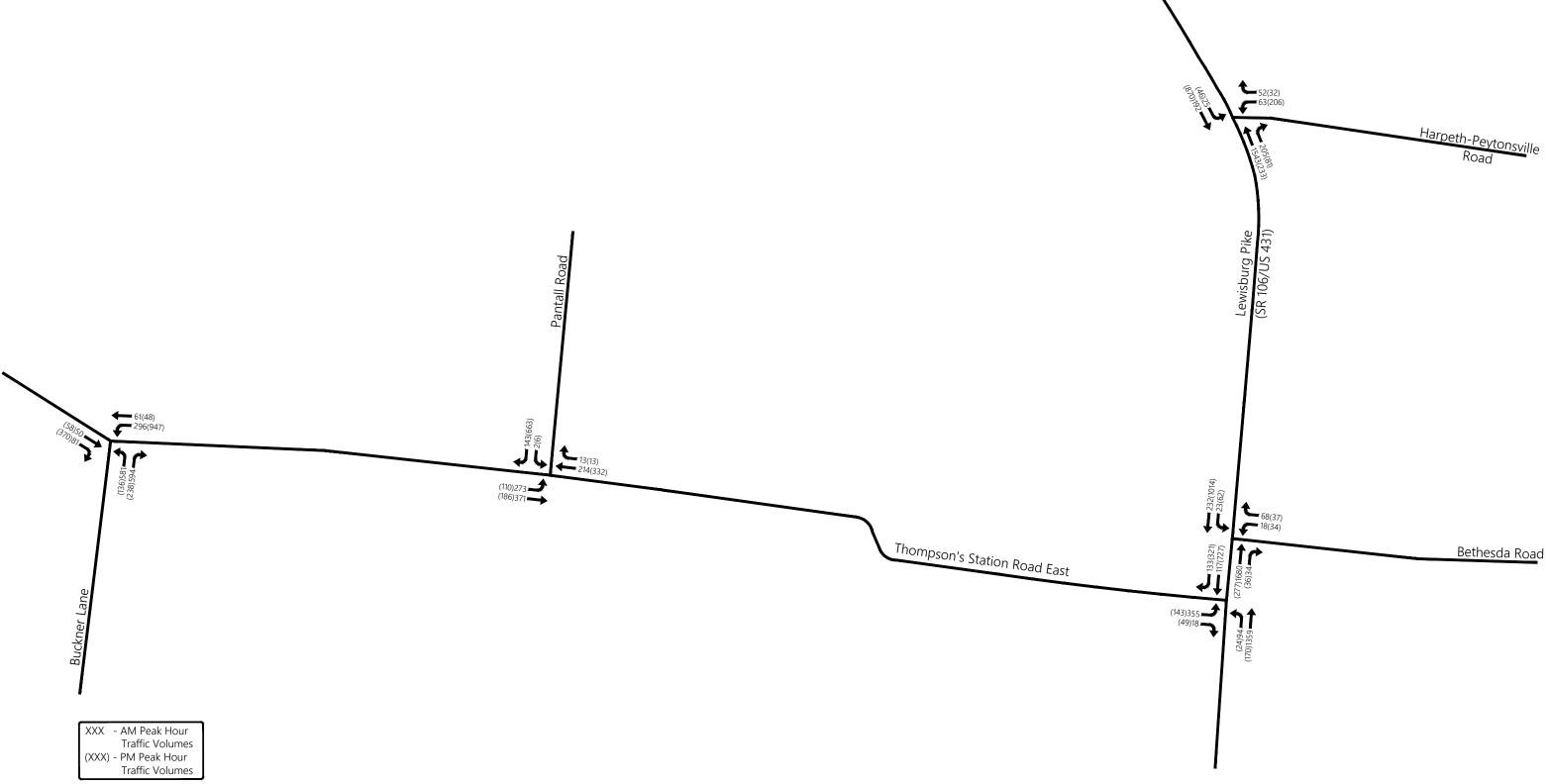
In addition to the above information, average daily traffic volumes were obtained from the Tennessee Department of Transportation (TDOT). There are four TDOT count stations located in the vicinity of the project site. The count station locations and annual average daily traffic (AADT) in 2018 are shown in Table 1. Additional TDOT Count Station data is included in Appendix C.

TABLE 1. TDOT COUNT STATION DATA

| ROADWAY           | LOCATION   | STATION<br>NO. | 2018 AADT<br>(vpd) |
|-------------------|--|----------------|--------------------|
| Lewisburg Pike    | East of I-65;  | 65             | £ 100              |
| (SR 106/US 431)   | Between Cascade Eastgate Boulevard and Wilhoite Road | 05             | 6,188              |
| Thompson's        | West of I-65;  | 66             | 4,009              |
| Station Road East | on Road East Between Columbia Pike and Village Drive |                | 4,009              |
| Bethesda Road     | East of Lewisburg Pike (SR 106/US 431);              | 64             | 2,062              |
| Detilesua Noau    | Between Lewisburg Pike and Marlin Way                | 04             | 2,002              |
| Harpeth-          | East of Lewisburg Pike (SR 106/US 431);              | 93             | 1,608              |
| Peytonsville Road | Between Dotson Road and Herbert Smithson Road        | 33             | 1,000              |

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Existing Peak Hour Traffic Volumes

(Not to Scale)

Figure 3.

# 2.3 Existing Traffic Operations

To determine the current operation of the study intersections, capacity analyses were performed for the AM and PM peak hours. The capacity calculations were performed according to the methods outlined in the *Highway Capacity Manual*, 6<sup>th</sup> Edition. However, it should be noted that due to the limitations of HCM 6<sup>th</sup> Edition regarding intersections with non-NEMA phasing, the signalized intersection of Thompson's Station Road East and Buckner Road was analyzed using HCM 2000 methodologies under existing conditions only. The capacity analyses result in the determination of a Level of Service (LOS) for an intersection. The LOS is a concept used to describe how well an intersection or roadway operates. LOS A is the best, while LOS F is the worst. LOS D is typically considered as the minimum acceptable LOS for an intersection in an urbanized area. Table 2 presents the descriptions of LOS for signalized and unsignalized intersections.

TABLE 2. DESCRIPTIONS OF LEVEL OF SERVICE

| LEVEL OF SERVICE | DESCRIPTION             | UNSIGNALIZED CONTROL DELAY (sec/veh) | SIGNALIZED CONTROL<br>DELAY (sec/veh) |
|------------------|-------------------------|--------------------------------------|---------------------------------------|
| Α                | Little or no delay      | <u>&lt;</u> 10.0                     | <u>≤</u> 10.0                         |
| В                | Short traffic delay     | >10 and <u>&lt;</u> 15               | >10 and <u>&lt;</u> 20                |
| С                | Average traffic delay   | >15 and <u>&lt;</u> 25               | >20 and <u>&lt;</u> 35                |
| D                | Long traffic delay      | >25 and <u>&lt;</u> 35               | >35 and <u>&lt;</u> 55                |
| E                | Very long traffic delay | >35 and <u>&lt;</u> 50               | >55 and <u>&lt;</u> 80                |
| F                | Extreme traffic delay   | > 50.0                               | > 80.0                                |

Source: Highway Capacity Manual, TRB 2010

The results of the capacity analyses for the existing conditions at the study intersections are presented in Table 3. As shown, the overall intersection and critical movements for the study intersections operate at LOS D or better in the AM and PM peak hours with the following exceptions:

- Lewisburg Pike (SR 106/US 431) and Thompson's Station Road East
  - The eastbound approach operates at LOS F in the AM and PM peak hours.
- Lewisburg Pike (SR 106/US 431) and Bethesda Road
  - The westbound approach operates at LOS F in the AM peak and LOS E in the PM peak hour.

- Lewisburg Pike (SR 106/US 431) and Harpeth-Peytonsville Road
  - o The westbound approach operates at LOS F in the AM and PM peak hours.
- Thompson's Station Road East and Buckner Lane
  - o The overall intersection operates at LOS F in the AM and PM peak hours.
- Thompson's Station Road East and Pantall Road
  - o The southbound approach operates at LOS F in the PM peak hour.

Capacity analyses worksheets are included in Appendix D.

TABLE 3. EXISTING PEAK HOUR LEVELS OF SERVICE

|   | TABLE 5. EASTING FEAR HOUR ELVELS OF SERVICE |  |              |  |  |  |
|---|--|--|--------------|--|--|--|
| INTERSECTION  | TURNING<br>MOVEMENT                          | LEVEL OF SERVICE (Average Approach Delay in sec/veh) |              |  |  |  |
|   | IVIO VEIVIEIVI                               | AM Peak Hour   | PM Peak Hour |  |  |  |
| Lewisburg Pike and<br>Thompson's Station Road                 | Northbound Left-Turn                         | A (8.0)  | B (11.1)     |  |  |  |
| East  | Eastbound Approach                           | F (>300)   | F (102.3)    |  |  |  |
| Lewisburg Pike and  | Westbound Approach                           | F (259.8)  | E (36.1)     |  |  |  |
| Bethesda Road   | Southbound Left-Turn                         | C (17.0)   | A (8.1)      |  |  |  |
| Lewisburg Pike and  | Westbound Approach                           | F (>300)   | F (299.8)    |  |  |  |
| Harpeth-Peytonsville Road                                     | Southbound Left-Turn                         | C (15.1)   | A (7.9)      |  |  |  |
| Thompson's Station Road<br>East and Buckner Lane <sup>2</sup> | Overall Intersection                         | F (111.2)  | F (244.4)    |  |  |  |
| Thompson's Station Road                                       | Eastbound Left-Turn                          | A (8.5)  | A (8.4)      |  |  |  |
| East and Pantall Road   | Southbound Approach                          | B (11.1)   | F (84.3)     |  |  |  |

Notes: 1 - For stop-controlled intersections, a LOS is presented for each critical turning movement. For signalized intersections, a LOS is presented for the overall intersection.

2 – HCM 2000 methods were used due to the incompatibility with NEMA phasing, which is not supported by HCM 6<sup>th</sup> Edition methods.

#### 3. BACKGROUND TRAFFIC VOLUMES

# 3.1 Establishing Background Volumes

In order to account for the traffic growth prior to the completion of the proposed project, background traffic volumes were established. For the purposes of this traffic study, the proposed development was assumed to be completed by the year 2025, which is a 5-year horizon. Historical daily traffic volumes were obtained from the four TDOT count stations located in the vicinity of the project site. Since 2013, the combined traffic at these four TDOT count stations has increased by an average of 6.7 per year. The TDOT count station data is included in Appendix C.

A growth factor was applied to the existing peak hour traffic volumes to account for background growth for the future conditions. The existing peak hour traffic volumes at the study intersections were increased by 7.0% per year for five years to account for anticipated background traffic growth within the study area.

Additionally, per the scoping meeting with the City of Thompson's Station, the peak hour traffic volumes generated by the following developments were included as background traffic:

- Alexander Property Located on southeast corner of the intersection of Thompson's Station Road East and Buckner Lane, approximately 1.25 miles west of the project site.
- Littlebury Located on east side of Pantall Road, approximately 3,500 feet west of the project site.

Trip assignment for the background developments are included in Appendix E. The background peak hour traffic volumes for horizon year 2025 are presented in Figure 4. These volumes represent the peak hour traffic that is expected to be on the roadway in 2025 even if the proposed Pleasant Creek development is not completed.

Pleasant Creek - Traffic Impact Study September 2020 Thompson's Station Road East Bethesda Road

XXX - AM Peak Hour Traffic Volumes (XXX) - PM Peak Hour Traffic Volumes



Background Peak Hour Traffic Volumes

(Not to Scale)

Figure 4.

### 3.2 Background Traffic Operations

To determine the operation of the study area intersections under background conditions, capacity analyses were performed for the AM and PM peak hours. The analyses for the background conditions were based on the same lane configurations and signal timings as the existing conditions with some exceptions. The following roadway improvements were recommended by the Alexander Property traffic impact study. The improvements were incorporated into the network configuration of the background conditions.

### Thompson's Station Road East and Buckner Lane

- Realign Buckner Lane between Thompson's Station Road East and Buckner Road. This realignment would relocate this intersection to approximately 600 feet west of Sherrie Street.
- Widen Thompson's Station Road East in order to provide a westbound leftturn lane.
- Widen Thompson's Station Road East in order to provide an eastbound rightturn lane with channelization to an added lane on Bucker Lane in the southbound direction.
- Install traffic signal control with permissive/protected left-turn signal phasing for Thompson's Station Road East.

As shown in Tables 4A and 4B, under background conditions, the capacity analyses indicate that the operational performances of the critical movements at the study intersections are generally expected to continue to operate at the same level of service as under existing conditions or continue to operate at LOS D or better in the AM and PM peak hours with the following exceptions:

- Lewisburg Pike (SR 106/US 431) and Bethesda Road
  - The westbound approach is expected to deteriorate from LOS E to LOS
     F in the PM peak hour.

It is important to note that the intersection of Thompson's Station Road East and Bucker Lane has improved operations between existing and background conditions due to the incorporated background improvements. Capacity analyses worksheets are included in Appendix D.

TABLE 4A. BACKGROUND AM PEAK HOUR LEVELS OF SERVICE

| INTERSECTION                                     | TURNING<br>MOVEMENT  | LEVEL OF SERVICE<br>(Average Approach Delay in sec/v |            |  |
|--|----------------------|--|------------|--|
|  | IVIOVEIVIEIVI        | EXISTING   | BACKGROUND |  |
| Lewisburg Pike and                               | Northbound Left-Turn | A (8.0)  | A (8.6)    |  |
| Thompson's Station Road<br>East                  | Eastbound Approach   | F (>300)   | F (>300)   |  |
| Lewisburg Pike and                               | Westbound Approach   | F (259.8)  | F (>300)   |  |
| Bethesda Road                                    | Southbound Left-Turn | C (17.0)   | D (33.4)   |  |
| Lewisburg Pike and                               | Westbound Approach   | F (>300)   | F (>300)   |  |
| Harpeth-Peytonsville Road                        | Southbound Left-Turn | C (15.1)   | D (26.1)   |  |
| Thompson's Station Road<br>East and Buckner Lane | Overall Intersection | F (111.2)  | D (41.9)   |  |
| Thompson's Station Road                          | Eastbound Left-Turn  | A (8.5)  | A (9.8)    |  |
| East and Pantall Road                            | Southbound Approach  | B (11.1)   | C (23.2)   |  |

Note: 1 - For stop-controlled intersections, a LOS is presented for each critical turning movement. For signalized intersections, a LOS is presented for the overall intersection.

TABLE 4B. BACKGROUND PM PEAK HOUR LEVELS OF SERVICE

| INTERSECTION                                     | TURNING              | LEVEL OF SERVICE (Average Approach Delay in sec/veh) |            |  |
|--|----------------------|--|------------|--|
|  | MOVEMENT             | EXISTING   | BACKGROUND |  |
| Lewisburg Pike and                               | Northbound Left-Turn | B (11.1)   | C (16.2)   |  |
| Thompson's Station Road<br>East                  | Eastbound Approach   | F (102.3)  | F (>300)   |  |
| Lewisburg Pike and                               | Westbound Approach   | E (36.1)   | F (>300)   |  |
| Bethesda Road                                    | Southbound Left-Turn | A (8.1)  | A (8.7)    |  |
| Lewisburg Pike and                               | Westbound Approach   | F (299.8)  | F (>300)   |  |
| Harpeth-Peytonsville Road                        | Southbound Left-Turn | A (7.9)  | A (8.2)    |  |
| Thompson's Station Road<br>East and Buckner Lane | Overall Intersection | F (244.4)  | F (118.5)  |  |
| Thompson's Station Road                          | Eastbound Left-Turn  | A (8.4)  | A (9.6)    |  |
| East and Pantall Road                            | Southbound Approach  | F (84.3)   | F (>300)   |  |

Note: 1 - For stop-controlled intersections, a LOS is presented for each critical turning movement. For signalized intersections, a LOS is presented for the overall intersection.

#### 4. IMPACTS

### 4.1 Trip Generation

A traffic generation process was used to estimate the amount of traffic expected to be generated by the proposed Pleasant Creek development. Factors for the trip generation were taken from ITE's *Trip Generation*, 10<sup>th</sup> Edition. According to the developer, the proposed development includes approximately 327 single-family residential homes, 90 single-family townhomes, 5,500 square feet of retail, 2,000 square feet of fitness center, and 2,000 square feet of bank. It should be noted that the 90 single-family townhomes will be analyzed using LUC 210 due to the planned nature of the development, as well as, LUC being more conservative than LUC 220 (Low Rise Multi-Family). Therefore, the total units for analysis is 417. Additionally, the fitness center will be analyzed using LUC 820 due to the planned nature of the development, as well as, LUC being more conservative than LUC 492 (Health/Fitness Club).

No reductions were applied to the base trip generation to account for internal capture, alternative modes, or pass-by trips.

Table 5 presents the daily, AM and PM peak hour trip generation for the proposed development. As shown in Table 5, the proposed development can be expected to generate approximately 5,164 new vehicle trips per day. The AM and PM peak hour trip generations will equal approximately 327 and 545 new trips, respectively. These trips represent the new traffic that will be generated by the proposed Pleasant Creek development. The calculations for trip generation are included in Appendix F.

TABLE 5. DEVELOPMENT TRIP GENERATION

|   |            | GENERATED TRAFFIC |       |          |       |         |  |
|---|------------|-------------------|-------|----------|-------|---------|--|
| LAND USE                                    | SIZE       | DAILY AM P        |       | I PEAK P |       | PM PEAK |  |
|   |            | TRAFFIC           | Enter | Exit     | Enter | Exit    |  |
| Single-Family Detached<br>Housing (LUC 210) | 417 Units  | 3,868             | 75    | 226      | 252   | 148     |  |
| Shopping Center (LUC 820)                   | 1,500 s.f. | 346               | 1     | 0        | 12    | 12      |  |
| Shopping Center (LUC 820)                   | 4,000 s.f. | 674               | 2     | 2        | 24    | 26      |  |
| Shopping Center (LUC 820)                   | 2,000 s.f. | 76                | 1     | 1        | 14    | 16      |  |
| Drive-In Bank (LUC 912) 2,000 s.            |            | 200               | 11    | 8        | 21    | 21      |  |
| NEW TRIPS                                   |            | E 16.4            | 90    | 237      | 322   | 223     |  |
|   |            | 5,164             | 327   |          | 545   |         |  |

Source: Trip Generation, 10th Edition

# 4.2 Trip Distribution and Traffic Assignment

A directional distribution of traffic generated by the proposed project was established based on the proposed access, the existing roadway network, and the existing travel patterns developed from the existing peak hour traffic counts. As previously discussed, access to the development is planned to be provided by two access drives, located along Lewisburg Pike (SR 106/US 431). The northern access will be provided via the new eastbound approach to the intersection of Lewisburg Pike (SR 106/US 431) and Harpeth Peytonsville Road. The southern access will be located approximately 1,100 feet north of the intersection of Lewisburg Pike (SR 106/US 431) and Bethesda Road.

The directional distribution for the proposed development is shown in Figure 5. As shown in the figure,

- approximately 35% of the traffic generated by the development will be oriented to the north on Lewisburg Pike (SR 106/US 431),
- 25% to the west on Thompson's Station Road East,
- 20% to the south on Lewisburg Pike (SR 106/US 431),
- 5% to the east on Harpeth-Peytonsville Road,
- 5% to the east on Bethesda Road,
- 5% to the north on Pantall Road, and
- 5% to the south on Buckner Lane.

Based on the directional distribution, the project-generated traffic for the AM and PM peak hour was assigned to the roadway network. The traffic assignment for the proposed development is shown in Figure 6. It should be noted that the 20% of vehicles distributed to the south on Lewisburg Pike (SR 106/US 431) is due to the proposed I-65 interchange located along Buckner Road. This interchange is being constructed in tandem with the Alexander Property background development.

Pleasant Creek - Traffic Impact Study September 2020 Site Access A Project Site Site Access B Thompson's Station Road East Bethesda Road

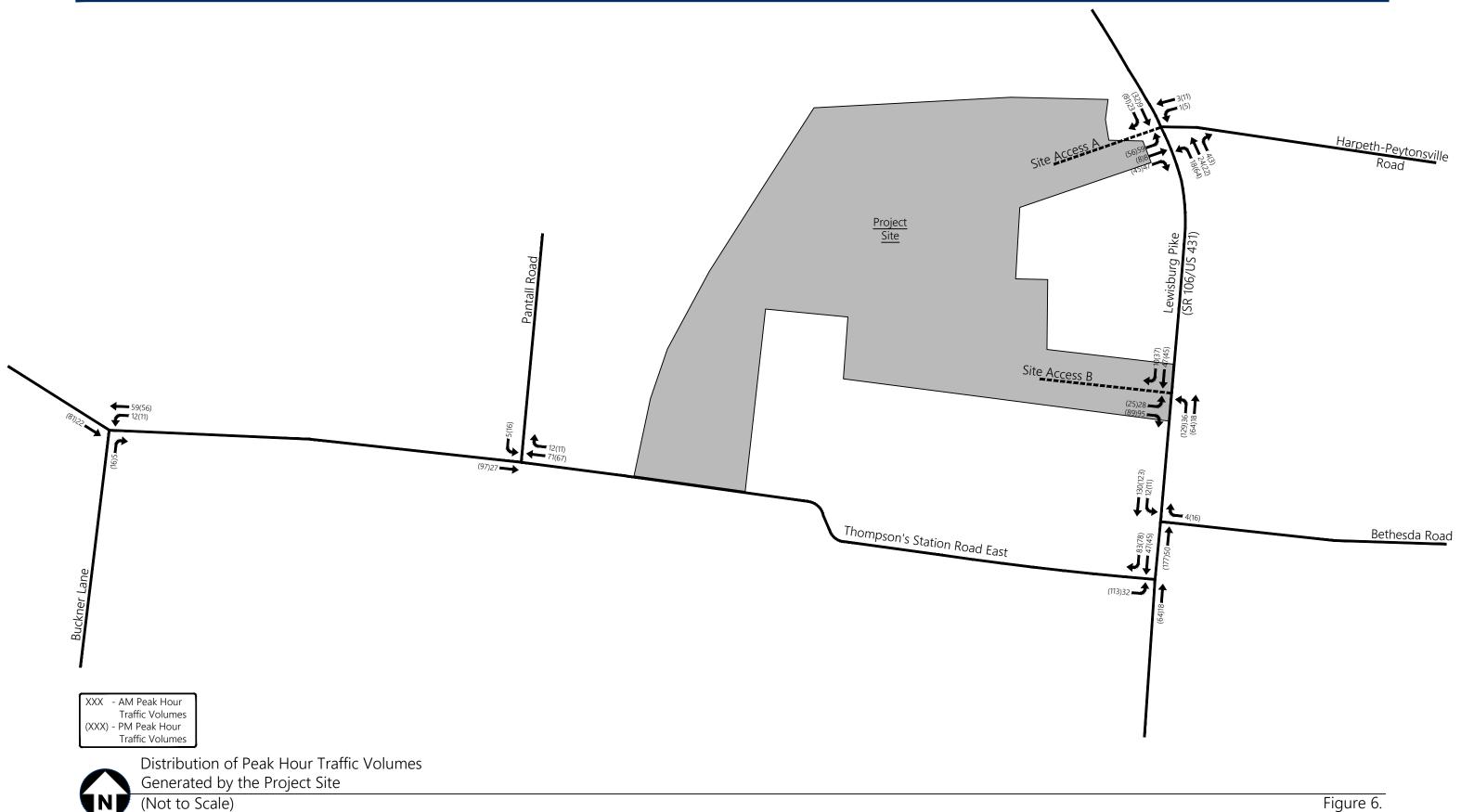
XX% - Enter (XX%) - Exit

Assignment of Peak Hour Traffic Volumes
Generated by the Project Site

(Not to Scale)

Figure 5.

Pleasant Creek - Traffic Impact Study September 2020



(Not to Scale)

# 4.3 Capacity / Level of Service Analyses

The total site-generated traffic volumes were added to the background peak hour traffic volumes for the proposed development in order to obtain the total projected traffic volumes for the study intersections. Figure 7 presents the total projected AM and PM peak hour traffic volumes expected at the completion of the proposed development.

Capacity analyses were performed in order to determine the impact of the project on the study intersections. These capacity analyses were also used to evaluate the need for roadway and traffic control improvements at the intersections studied. The capacity calculations were performed according to the methods outlined in the *Highway Capacity Manual*, TRB 2010. The results of the capacity analyses for the projected conditions at the study area intersections are presented in Tables 6A and 6B. For the analyses, the intersection configurations and signal timings were the same as the existing and background conditions.

Based on preliminary lane warrant analysis, the intersections with proposed site accesses are expected to operate as follows:

- Lewisburg Pike (SR 106/US 431) and Harpeth-Peytonsville Road/Site Access A
  - o The northbound approach of Lewisburg Pike (SR 106/US 431) should include one left-turn lane and one shared through/right-turn lane.
  - o The southbound approach of Lewisburg Pike (SR 106/US 431) should include one shared through/left-turn lane and one right-turn lane.
  - o The eastbound approach of Site Access A should be designed to include one ingress lane and three egress lanes. The egress lanes should include one left-turn lane, one through lane, and one right-turn lane.
  - The westbound approach of Harpeth-Peytonsville Road should include one shared lane for all movements.
- Lewisburg Pike (SR 106/US 431) and Site Access B
  - o The northbound approach of Lewisburg Pike (SR 106/US 431) should include one left-turn lane and one through lane.
  - o The southbound approach of Lewisburg Pike (SR 106/US 431) should include one through lane and one right-turn lane.
  - o The eastbound approach of Site Access B should be designed to include one ingress lane and two egress lanes. The egress lanes should include one left-turn lane and one right-turn lane.

As shown in Tables 6A and 6B, under projected conditions, the capacity analyses indicate that the operational performances of the critical movements at the study intersections are generally expected to continue to operate at the same level of service as under background conditions or continue to operate at LOS D or better in the AM and PM peak hours with the following exceptions:

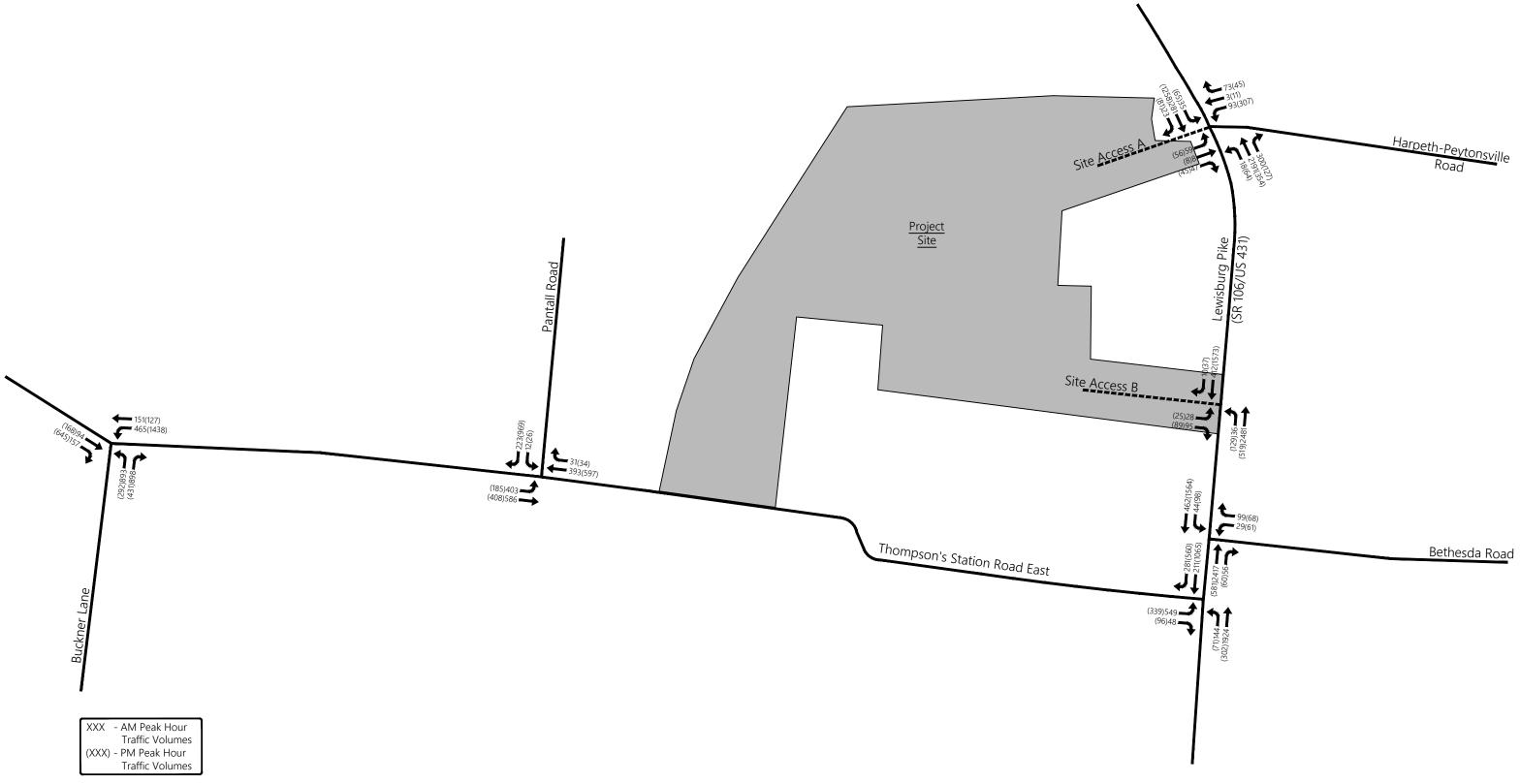
- Lewisburg Pike (SR 106/US 431) and Bethesda Road
  - The southbound left-turn movement is expected to deteriorate from LOS D to LOS E in the AM peak hour.
- Lewisburg Pike (SR 106/US 431) and Harpeth-Peytonsville Road/Site Access A
  - The eastbound shared through/left-turn lane is expected to operate at LOS F in the AM and PM peak hours.
- Thompson's Station Road East and Pantall Road
  - The southbound approach is expected to deteriorate from LOS C to LOS F in the AM peak hour.
- Lewisburg Pike (SR 106/US 431) and Site Access B
  - The eastbound left-turn movement is expected to operate at LOS F in the AM and PM peak hours.
  - o The eastbound right-turn movement is expected to operate at LOS F in the PM peak hour.

Additional analyses were conducted under a "projected with improvements" scenario to evaluate the benefits of adding the following roadway improvements:

- Lewisburg Pike (SR 106/US 431) and Harpeth-Peytonsville Road/Site Access A
  - o The intersection was assumed to be signalized with all approaches operating as permissive-only left-turn phasing. The signal was optimized for both cycle length and splits.

Capacity analyses results for the "projected with improvements" scenario are presented in bold in Tables 6A and 6B. Capacity analyses worksheets are included in Appendix D.

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Total Projected Peak Hour Traffic Volumes

(Not to Scale)

Figure 7.

TABLE 6A. PROJECTED AM PEAK HOUR LEVELS OF SERVICE

| INTERSECTION                                  | TURNING              | LEVEL OF SERVICE (Average Approach Delay in sec/veh) |            |           |  |
|---|----------------------|--|------------|-----------|--|
|   | MOVEMENT             | EXISTING   | BACKGROUND | PROJECTED |  |
| Lewisburg Pike and<br>Thompson's Station Road | Northbound Left-Turn | A (8.0)  | A (8.6)    | A (9.1)   |  |
| East  | Eastbound Approach   | F (>300)   | F (>300)   | F (>300)  |  |
| Lewisburg Pike and                            | Westbound Approach   | F (259.8)  | F (>300)   | F (>300)  |  |
| Bethesda Road                                 | Southbound Left-Turn | C (17.0)   | D (33.4)   | E (38.9)  |  |
|   | Overall Intersection |  |            | F (249.8) |  |
|   | Northbound Left-Turn |  |            | A (8.0)   |  |
| Lewisburg Pike and                            | Eastbound Left-Turn  |  |            | F (>300)  |  |
| Harpeth-Peytonsville<br>Road/Site Access A    | Eastbound Right-Turn |  |            | B (10.3)  |  |
| Troday Site / recess / r                      | Westbound Approach   | F (>300)   | F (>300)   | F (>300)  |  |
|   | Southbound Left-Turn | C (15.1)   | D (26.1)   | D (26.8)  |  |
| Thompson's Station Road East and Buckner Lane | Overall Intersection | F (111.2)  | D (41.9)   | D (42.0)  |  |
| Thompson's Station Road                       | Eastbound Left-Turn  | A (8.5)  | A (9.8)    | B (10.4)  |  |
| East and Pantall Road                         | Southbound Approach  | B (11.1)   | C (23.2)   | F (65.0)  |  |
| l il bil lai                                  | Northbound Left-Turn |  |            | A (8.4)   |  |
| Lewisburg Pike and Site  Access B             | Eastbound Left-Turn  |  |            | F (>300)  |  |
| Access b                                      | Eastbound Right-Turn |  |            | B (12.1)  |  |

Note: 1 - For stop-controlled intersections, a LOS is presented for each critical turning movement. For signalized intersections, a LOS is presented for the overall intersection.

'Projected with Improvements' Scenario Results

TABLE 6B. PROJECTED PM PEAK HOUR LEVELS OF SERVICE

| INTERSECTION                                  | TURNING              | LEVEL OF SERVICE (Average Approach Delay in sec/veh) |            |           |  |
|---|----------------------|--|------------|-----------|--|
|   | MOVEMENT             | EXISTING   | BACKGROUND | PROJECTED |  |
| Lewisburg Pike and                            | Northbound Left-Turn | B (11.1)   | C (16.2)   | C (18.0)  |  |
| Thompson's Station Road<br>East               | Eastbound Approach   | F (102.3)  | F (>300)   | F (>300)  |  |
| Lewisburg Pike and                            | Westbound Approach   | E (36.1)   | F (>300)   | C (16.2)  |  |
| Bethesda Road                                 | Southbound Left-Turn | A (8.1)  | A (8.7)    | A (9.5)   |  |
|   | Overall Intersection |  |            | E (71.2)  |  |
|   | Northbound Left-Turn |  |            | B (14.1)  |  |
| Lewisburg Pike and                            | Eastbound Left-Turn  |  |            | F (>300)  |  |
| Harpeth-Peytonsville<br>Road/Site Access A    | Eastbound Right-Turn |  |            | D (32.3)  |  |
| rioda, site riceess ri                        | Westbound Approach   | F (299.8)  | F (>300)   | F (>300)  |  |
|   | Southbound Left-Turn | A (7.9)  | A (8.2)    | A (8.3)   |  |
| Thompson's Station Road East and Buckner Lane | Overall Intersection | F (244.4)  | F (118.5)  | F (135.2) |  |
| Thompson's Station Road                       | Eastbound Left-Turn  | A (8.4)  | A (9.6)    | B (10.1)  |  |
| East and Pantall Road                         | Southbound Approach  | F (84.3)   | F (>300)   | F (>300)  |  |
| D. 1. C.                                      | Northbound Left-Turn |  |            | C (21.4)  |  |
| Lewisburg Pike and Site  Access B             | Eastbound Left-Turn  |  |            | F (>300)  |  |
| Access D                                      | Eastbound Right-Turn |  |            | F (122.4) |  |

Notes: 1 - For stop-controlled intersections, a LOS is presented for each critical turning movement. For signalized intersections, a LOS is presented for the overall intersection.

'Projected with Improvements' Scenario Results



# 4.4 Queue Length Analysis

95<sup>th</sup> percentile queue lengths for the critical movements of the study intersections that are expected to be impacted by the proposed development were also analyzed and evaluated under the projected conditions. Table 7 indicates the results of the queue length analyses for the study intersection.

TABLE 7. STUDY INTERSECTIONS 95<sup>TH</sup> PERCENTILE QUEUE LENGTH

| INTERSECTION                                  | TURNING                       | STORAGE             | 95 <sup>th</sup> PERCENTILE QUEUE LENGTH<br>(FEET) |        |                  |   |  |  |  |  |  |  |  |
|---|-------------------------------|---------------------|--|--------|------------------|---|--|--|--|--|--|--|--|
| INTERSECTION                                  | MOVEMENT                      | LENGTH<br>(FEET)    | BACKG  | ROUND  | PROJECTED        |   |  |  |  |  |  |  |  |
|   |                               | (FEEI)              | AM   | PM     | AM               | PM  |  |  |  |  |  |  |  |
| Lewisburg Pike and<br>Thompson's Station Road | Northbound Left-Turn          |                     | 13′  | 18′    | 13′              | 20′   |  |  |  |  |  |  |  |
| East  | Eastbound Approach            |                     | 1910′  | 915′   | 2030′            | 1368′   |  |  |  |  |  |  |  |
| Lewisburg Pike and                            | Westbound Approach            |                     | 430′   | 375′   | 455′             | 33′   |  |  |  |  |  |  |  |
| Bethesda Road                                 | Southbound Left-Turn          |                     | 20′  | 8′     | 30′              | 10′   |  |  |  |  |  |  |  |
|   | Northbound Left-Turn          | 125′                |  |        | 0′<br><b>8′</b>  | 13′<br><b>#127′</b>   |  |  |  |  |  |  |  |
| Lewisburg Pike and                            | Eastbound Left-Turn           | 125′                |  |        | <br>113′         | 208′<br><b>82′</b>  |  |  |  |  |  |  |  |
| Harpeth-Peytonsville<br>Road/Site Access A    | Eastbound Right-Turn          | 125′                |  |        | 5′<br><b>42′</b> | 28′<br><b>34′</b>   |  |  |  |  |  |  |  |
|   | Westbound Approach            |                     | 575′   | 1053′  | 628′             | 1260′   |  |  |  |  |  |  |  |
|   | Southbound Left-Turn          |                     | 18′  | 5′     | 18′              | 5′  |  |  |  |  |  |  |  |
|   | Eastbound Right-Turn          | 200                 | 23′  | #771′  | 29′              | #907′   |  |  |  |  |  |  |  |
| Thompson's Station Road                       | Westbound Left-Turn           | 300                 | #538'  | #1552′ | #601′            | #1996′  |  |  |  |  |  |  |  |
| East and Buckner Lane                         | Northbound Left-Turn          |                     | #983'  | #386′  | #1050′           | #450′   |  |  |  |  |  |  |  |
|   | Northbound Right-Turn         |                     | 197′   | 19′    | 283′             | 76′   |  |  |  |  |  |  |  |
| Thompson's Station Road                       | Eastbound Left-Turn           |                     | 43′  | 20′    | 48′              | 20′   |  |  |  |  |  |  |  |
| East and Pantall Road                         | Southbound Approach           | Southbound Approach |  | 1915′  | 195′             | 2198′   |  |  |  |  |  |  |  |
| Dil Loi                                       | Northbound Left-Turn          | 75                  |  |        | 3′               | 45′   |  |  |  |  |  |  |  |
| Lewisburg Pike and Site  Access B             | Eastbound Left-Turn           |                     |  |        | 120′             | 95′   |  |  |  |  |  |  |  |
| / (CCC33 D                                    | Eastbound Right-Turn          |                     |  |        | 15′              | 128′  |  |  |  |  |  |  |  |
| # - 95 <sup>th</sup> percentile volume exce   | eds capacity; queue may be lo | nger.               |  |        |                  | # - 95 <sup>th</sup> percentile volume exceeds capacity; queue may be longer. |  |  |  |  |  |  |  |

# 4.5 Signal Warrant Analysis

As noted in the capacity analysis, the intersection of Lewisburg Pike (SR 106/US 431) and Harpeth-Peytonsville Road/Site Access A is expected to operate at poor LOS under unsignalized projected conditions in the AM and PM peak hours:

A traffic signal should normally be installed at an intersection only when specific warrants are satisfied. Therefore, traffic signal warrant analyses were performed with available data for the intersections based on the anticipated traffic conditions at completion of the development.

The Manual on Uniform Traffic Control Devices (MUTCD) sets forth nine different warrants that have been developed by the traffic engineering profession to facilitate the determination of whether a signal is warranted. These warrants include minimum conditions that normally indicate when a traffic signal is justified at a particular location. The MUTCD states "traffic control signals should not be installed unless one or more of the signal warrants in the manual are met."

Although the MUTCD provides nine different warrants, only three of these are potentially applicable at the intersection under study. These three warrants, described in the MUTCD, are the volume-related signal warrants, which are described as follows:

#### WARRANT 1A, MINIMUM VEHICULAR VOLUME

The Minimum Vehicular Volume warrant is intended for application where the volume of intersecting traffic is the principal reason for consideration of signal installation. The warrant is satisfied when, for each of any eight hours of an average day, the traffic volumes given below in Table 8 exist on the major street and on the higher volume minor street approach to the intersection.

TABLE 8. MINIMUM VEHICULAR VOLUMES FOR WARRANT 1A

| Number of lanes for moving<br>traffic on each approach |                 | Vehicles per hour on<br>major street | Vehicles per hour<br>on higher volume<br>minor approach |
|--|-----------------|--------------------------------------|---|
| Major Street   | Minor Street    | Total of Both Approaches             | One Direction Only                                      |
| 1 Lane   | 1 Lane          | 500                                  | 150   |
| 2 Lanes or more  | 1 Lane          | 600                                  | 150   |
| 2 Lanes or more  | 2 Lanes or more | 600                                  | 200   |
| 1 Lane   | 2 Lanes or more | 500                                  | 200   |



When the 85<sup>th</sup> percentile speed of the major street traffic exceeds 40 mph in either an urban or a rural area, or when the intersection lies within the built-up area of an isolated community having a population of less than 10,000, the Minimum Vehicular Volume warrant is 70% of the requirements in Table 8. The speed limit on Lewisburg Pike (SR 106/US 431) is 55 mph; therefore, the intersection of Lewisburg Pike (SR 106/US 431) and Harpeth-Peytonsville Road/Site Access A does qualify for this reduction.

### WARRANT 1B, INTERRUPTION OF CONTINUOUS TRAFFIC

The Interruption of Continuous Traffic warrant applies to operating conditions where the traffic volume on a major street is so heavy that traffic on a minor intersecting street suffers excessive delay or hazard when entering or crossing the major street. The warrant is satisfied when, for each of any eight hours of an average day, the traffic volumes given below in Table 9 exist on the major street and on the higher volume minor street approach to an intersection. In addition, the signal installation shall not seriously disrupt progressive traffic flow.

TABLE 9. MINIMUM VEHICULAR VOLUMES FOR WARRANT 1B

| Number of lanes for moving<br>traffic on each approach |                 | Vehicles per hour on<br>major street | Vehicles per hour<br>on higher volume<br>minor approach |
|--|-----------------|--------------------------------------|---|
| Major Street   | Minor Street    | Total of Both Approaches             | One Direction Only                                      |
| 1 Lane   | 1 Lane          | 750                                  | 75  |
| 2 Lanes or more  | 1 Lane          | 900                                  | 75  |
| 2 Lanes or more  | 2 Lanes or more | 900                                  | 100   |
| 1 Lane   | 2 Lanes or more | 750                                  | 100   |

When the 85<sup>th</sup> percentile speed of the major street traffic exceeds 40 mph in either an urban or a rural area, or when the intersection lies within the built-up area of an isolated community having a population of less than 10,000, the Minimum Vehicular Volume warrant is 70% of the requirements in Table 9. The speed limit on Lewisburg Pike (SR 106/US 431) is 55 mph; therefore, the intersection of Lewisburg Pike (SR 106/US 431) and Harpeth-Peytonsville Road/Site Access A does qualify for this reduction.

### WARRANT 1C, COMBINATION WARRANT

In exceptional cases, traffic signals occasionally may be justified where no single warrant is satisfied but where Warrants 1A and 1B are satisfied to the extent of 80 percent or more of the stated values. This warrant is referred to as Warrant 1C (Combination Warrant).

When only peak hour data is collected, preliminary traffic signal warrant analyses can be based on estimates of the eighth highest hour of a typical day, based off the highest peak hour. The method for this estimation is described in the <u>Manual of Traffic Signal Design</u>, by Iris Fullerton and James H. Kell. This estimation procedure is based on the assumption that the eight highest hours will each exceed 6.25% of the ADT and that the peak hour traffic volume is approximately 10% of the ADT.

### WARRANT 2, FOUR HOUR VOLUME

The Four Hour Volume warrant is satisfied when for each of any four high hours of an average day, the plotted points representing the vehicles per hour on the major street (total of both approaches) and the corresponding vehicles per hour on the higher volume minor street approach (one direction only) all fall above the curve in Figure 8 and Figure 9 for the appropriate combination of approach lanes. It should be noted that when the 85<sup>th</sup> percentile speed of the major street traffic exceeds 40 mph or when the intersection lies within a built-up area of an isolated community having a population less than 10,000, the peak hour volume requirements are reduced by 30%. Figure 8 shows the existing traffic volumes at the study intersection as applied to Warrant 2 thresholds, and Figure 9 shows the projected traffic volumes at the study intersections as applied to Warrant 2 thresholds.

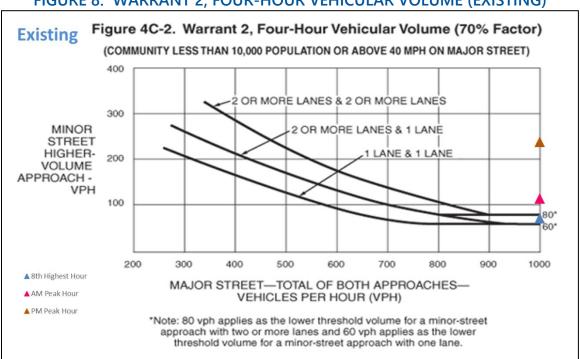


FIGURE 8. WARRANT 2, FOUR-HOUR VEHICULAR VOLUME (EXISTING)

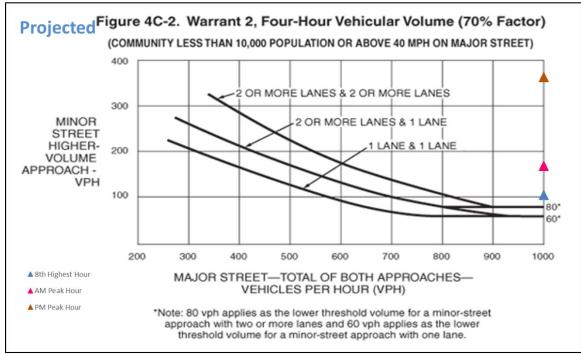
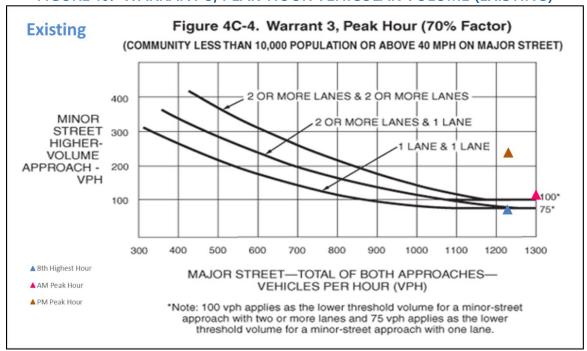


FIGURE 9. WARRANT 2, FOUR-HOUR VEHICULAR VOLUME (PROJECTED)

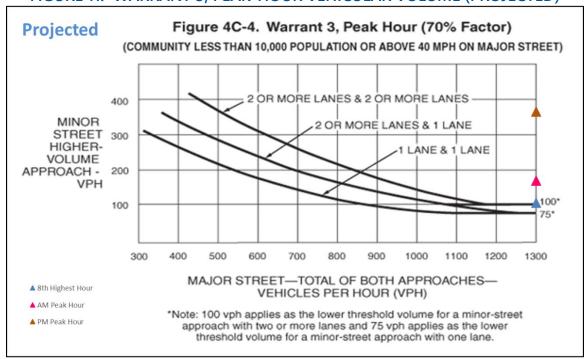
#### WARRANT 3, PEAK HOUR VOLUME

The Peak Hour Volume warrant is intended for application when traffic conditions are such that for one hour of the day, minor street traffic suffers undue traffic delay in entering or crossing the major street. The Peak Hour Volume warrant is satisfied when the plotted points representing the vehicles per hour on the major street (total of both approaches) and the corresponding vehicles per hour on the higher volume minor street approach (one direction only) for one hour (any four consecutive 15 minute periods) of an average day falls above the curve in Figure 10 and Figure 11 for the appropriate combination of approach lanes. It should be noted that when the 85<sup>th</sup> percentile speed of the major street traffic exceeds 40 mph or when the intersection lies within a built-up area of an isolated community having a population less than 10,000, the peak hour volume requirements are reduced by 30%. Figure 10 shows the existing traffic volumes at the study intersection as applied to Warrant 3 thresholds, and Figure 11 shows the projected traffic volumes at the study intersections as applied to Warrant 3 thresholds.

FIGURE 10. WARRANT 3, PEAK-HOUR VEHICULAR VOLUME (EXISTING)



## FIGURE 11. WARRANT 3, PEAK-HOUR VEHICULAR VOLUME (PROJECTED)



#### TRAFFIC SIGNAL WARRANT ANALYSIS RESULTS

Based on the geometry of the intersection, the analyses were performed based on one lane on the major street, Lewisburg Pike (SR 106/US 431), and one lane on the minor street (Harpeth-Peytonsville Road/Site Access A). The results of the warrant analyses indicated that under existing, background, and at the completion of the development, the traffic volumes at the intersection of Lewisburg Pike (SR 106/US 431) and Harpeth-Peytonsville Road/Site Access A will warrant a traffic signal.

Under existing and background conditions, the intersection is expected to meet Warrant 1B for the eighth highest hour, Warrant 2 in the AM and PM peak hours, and Warrant 3 in the AM and PM peak hours. Under projected conditions, the intersection is expected to meet Warrant 1A for the eighth highest hour, Warrant 1B for the eighth highest hour, Warrant 2 in the AM and PM peak hours, and Warrant 3 in the AM and PM peak hours. Results of the warrant analyses are shown in Table 10.

TABLE 10. TRAFFIC SIGNAL WARRANT ANALYSIS

|            | Hour                            | Main Street<br>Both Directions | Minor Street<br>Highest Approach | 1A  | 1B  | 1C  | 2   | 3   |
|------------|---------------------------------|--------------------------------|----------------------------------|-----|-----|-----|-----|-----|
|            | 8 <sup>th</sup> Highest<br>Hour | 1228                           | 72                               | No  | Yes | n/a | n/a | n/a |
| Existing   | AM Peak<br>Hour                 | 1965                           | 115                              | n/a | n/a | n/a | Yes | Yes |
|            | PM Peak<br>Hour                 | 1230                           | 238                              | n/a | n/a | n/a | Yes | Yes |
| pu         | 8 <sup>th</sup> Highest<br>Hour | 1731                           | 103                              | No  | Yes | n/a | n/a | n/a |
| Background | AM Peak<br>Hour                 | 2770                           | 165                              | n/a | n/a | n/a | Yes | Yes |
| Ba         | PM Peak<br>Hour                 | 1747                           | 347                              | n/a | n/a | n/a | Yes | Yes |
| ъ          | 8 <sup>th</sup> Highest<br>Hour | 1780                           | 106                              | Yes | Yes | n/a | n/a | n/a |
| Projected  | AM Peak<br>Hour                 | 2848                           | 169                              | n/a | n/a | n/a | Yes | Yes |
| PI         | PM Peak<br>Hour                 | 1949                           | 363                              | n/a | n/a | n/a | Yes | Yes |

#### 5. ANALYSIS OF SITE PLAN

#### **5.1 Site Access Review**

According to the information provided by the developer, the proposed Pleasant Creek development includes approximately 327 single-family residential homes, 90 single-family townhomes, 5,500 square feet of retail, 2,000 square feet of fitness center, and 2,000 square feet of bank.

Access to the development is planned to be provided via two access drives, located along Lewisburg Pike (SR 106/US 431). The northern access will be provided via the new eastbound approach to the intersection of Lewisburg Pike (SR 106/US 431) and Harpeth Peytonsville Road. The southern access will be located approximately 1,100 feet north of the intersection of Lewisburg Pike (SR 106/US 431) and Bethesda Road.

### 5.2 Pedestrian, Bicycle, and Transit Access

No sidewalks, pedestrian infrastructure, bicycle facilities, or transit services are currently provided in the vicinity of the project site.

# **5.3 Sight Distance Analysis**

Field investigation and sight distance measurements were conducted to determine if adequate sight distance is available for accessing the project site. For the 55 mph on Lewisburg Pike (SR 106/US 431), the guidelines from *A Policy on Geometric Design of Highways and Streets*, by the American Association of State Highway and Transportation Officials (AASHTO), call for a minimum stopping sight distance of 495 feet. These are the distances required for motorist to detect an object in the roadway necessitating a stop and be able to stop before reaching the object.

AASHTO also provides minimum design values for intersection sight distance which, allows enough time gap for a motorist to turn from Site Access A and Site Access B onto Lewisburg Pike (SR 106/US 431) without requiring motorists on Lewisburg Pike (SR 106/US 431) to significantly reduce speed. For a speed of 55 mph, the design value for intersection sight distance for a motorist turning from a stop is 530 feet for right-turns and 610 feet for left-turns. Therefore, it is desirable to provide a minimum of 530 feet looking north on Lewisburg Pike (SR 106/US 431) from Site Access A and Site Access B and 610 feet looking to the south on Lewisburg Pike (SR 106/US 431) from Site Access A and Site Access B. The design and available intersection sight distance for each of the site accesses are shown in Table 11.

TABLE 11. INTERSECTION SIGHT DISTANCE ANALYSIS

| INTERSECTION                                     | INTERSECTION SIGHT DISTANCE FOR LEFT- TURNS FROM STOP (FEET) |           | INTERSECTION SIGHT DISTANCE FOR RIGHT- TURNS FROM STOP (FEET) |           |
|--|--|-----------|---|-----------|
|  | DESIGN   | AVAILABLE | DESIGN  | AVAILABLE |
| Lewisburg Pike (SR 106/US 431) and Site Access A | 610  | 610       | 530   | 600       |
| Lewisburg Pike (SR 106/US 431) and Site Access B | 610  | 610       | 530   | 600       |

The field investigations indicate that the existing sight distance available at the proposed intersections of Lewisburg Pike (SR 106/US 431) and Site Access A and Lewisburg Pike and Site Access B will be adequate for left-turns and right-turns onto Lewisburg Pike (SR 106/US 431).

# 5.4 Lane Warrant Analysis

The southbound approach of Lewisburg Pike (SR 106/US 431) at Site Access A was evaluated for the need to provide a right-turn lane based on the projected traffic volumes during the AM and PM peak hours. This analysis was based on the procedures outlined in the Intersection Channelization Design Guide (NCHRP 279). The results of the analysis indicate that a right-turn lane is warranted in the PM peak hour.

The northbound approach of Lewisburg Pike (SR 106/US 431) at Site Access A was evaluated for the need to provide a left-turn lane based on the projected traffic volumes during the AM and PM peak hours. This analysis was based on the procedures outlined in M.D. Harmelink's *Volume Warrants for Left-Turn Storage Lanes at Unsignalized Intersections*. The results of the analysis indicate that a left-turn lane is warranted in the AM and PM peak hours.

The eastbound approach of proposed Site Access A was evaluated for the need to provide a two-lane approach based on the projected traffic volumes during the AM and PM peak hours. According to *Evaluating Intersection Improvements: An Engineering Study Guide* (NCHRP 457) Figure 2-4, a two-lane approach is warranted for the eastbound approach of Site Access A during the AM and PM peak hours.

The southbound approach of Lewisburg Pike (SR 106/US 431) at Site Access B was evaluated for the need to provide a right-turn lane based on the projected traffic volumes during the AM and PM peak hours. This analysis was based on the procedures outlined in the Intersection Channelization Design Guide (NCHRP 279). The results of the analysis indicate that a right-turn lane is warranted in the PM peak hour.

The northbound approach of Lewisburg Pike (SR 106/US 431) at Site Access B was evaluated for the need to provide a left-turn lane based on the projected traffic volumes during the AM and PM peak hours. This analysis was based on the procedures outlined in M.D. Harmelink's *Volume Warrants for Left-Turn Storage Lanes at Unsignalized Intersections*. The results of the analysis indicate that a left-turn lane is warranted in the AM and PM peak hours.

The eastbound approach of proposed Site Access B was evaluated for the need to provide a two-lane approach based on the projected traffic volumes during the AM and PM peak hours. According to *Evaluating Intersection Improvements: An Engineering Study Guide* (NCHRP 457) Figure 2-4, a two-lane approach is warranted for the eastbound approach of Site Access B during the AM and PM peak hours.

All warrant analyses are included in Appendix I.

#### 5.5 Evaluation of Off-Site Intersections

As described previously, off-site intersections that were analyzed for this study either currently experience poor LOS or will under background conditions. With the exception of the intersection of Thompson's Station Road East and Buckner Lane, each of these intersections has been evaluated and recommendations have been previously presented in the Town of Thompson's Station's *Major Thoroughfare Plan* or in the Town's *2015 Traffic Impact Study Comprehensive Update*. Also, as previously discussed the intersection of Thompson's Station Road East and Buckner Lane is planned to be realigned and improved as part of the proposed Alexander Property development in the city of Spring Hill. Descriptions of the recommendations for the remaining off-site intersections as presented in the Town of Thompson's Station's *Major Thoroughfare Plan* and the *2015 Traffic Impact Study Comprehensive Update* are discussed below:

# **Lewisburg Pike**

#### Major Thoroughfare Plan Recommendations

"Expand existing route to 4-lane, median-divided facility to provide congestion relief and improve safety. 11' travel lanes and landscaped median to be provided in carriageway with pocket turn lanes at major intersections. Corridor would narrow to 2-lane section with turn lanes north of the I-840 interchange. The new road will include a greenway facility from T.S. Road East to Critz Lane. A curbless section with paved shoulders and drainage swales will be provided to maintain rural character."

### 2015 Traffic Impact Study Comprehensive Update Recommendations

"Signalize the intersection of Lewisburg Pike and Thompson's Station Road."

"Construct a northbound left turn lane with approximately 150 feet of storage at the intersection of Lewisburg Pike and Thompson's Station Road."

## **Thompson's Station Road East**

## Major Thoroughfare Plan Recommendation

"Conduct safety improvements by providing 11' travel lanes and 2' shoulders throughout as well as turn lanes at major intersections. The majority will be a 2-3 lane section, but limited portions between Clayton Arnold and Pantall Roads may consist of a 4-lane section to accommodate EB and WB turn lanes. The new road will include a greenway facility along some of its length. The project also presents an opportunity to realign several S-curves along the corridor pending further safety and right-of-way studies."

## 2015 Traffic Impact Study Comprehensive Update Recommendations

"Signalize the intersection of Buckner Lane and Thompson's Station Road."

"Construct a westbound left turn lane with approximately 150 feet of storage at the intersection of Thompson's Station Road and Buckner Lane."

"Construct a northbound right turn lane with approximately 150 feet of storage at the intersection of Buckner Lane and Thompson's Station Road."

"Construct an eastbound left turn lane with approximately 150 feet of storage at the intersection of Thompson's Station Road and Lewisburg Pike."

"Signalize the intersection of Thompson's Station Road and Pantall Road."

"Construct an eastbound left turn lane with approximately 150 feet of storage at the intersection of Thompson's Station Road and Pantall Road."

### **Pantall Road**

## Major Thoroughfare Plan Recommendation

"Conduct safety improvements along Pantall Road to provide 11' travel lanes and 2' shoulders throughout as well as turn lanes at major intersections."

## Impact of Planned I-65 Interchange South of Thompson's Station Road

As previously mentioned, a new interchange with I-65 south of Thompson's Station Road is planned by TDOT and the City of Spring Hill. Included in this construction project is a new east/west road that will be an extension of Buckner Road and will travel between Buckner Lane and Lewisburg Pike and form an interchange with I-65. This new interchange will be completed by September 2025. With the completion of this interchange, traffic patterns in the area will change significantly. In particular, the interchange will provide a direct connection to I-65 from Buckner Road which is expected to reduce traffic on Thompson's Station Road, Buckner Lane, and Lewisburg Pike between Thompson's Station Road and I-840.

### 6. RECOMMENDATIONS

The proposed Pleasant Creek development is located on the north side of Thompson's Station Road East, east of I-65 in Thompson's Station, Tennessee. According to the developer, the proposed development includes approximately 327 single-family residential homes, 90 single-family townhomes, 5,500 square feet of retail, 2,000 square feet of fitness center, and 2,000 square feet of bank. Access to the project site is planned to be provided by two access drives, located along Lewisburg Pike (SR 106/US 431). The northern access will be provided via the new eastbound approach to the intersection of Lewisburg Pike (SR 106/US 431) and Harpeth Peytonsville Road. The southern access will be located approximately 1,100 feet north of the intersection of Lewisburg Pike (SR 106/US 431) and Bethesda Road. The analyses presented in this study indicate that the impacts of the proposed project on the existing street network will be manageable by providing the recommendations below. The recommendations are as follows:

## Lewisburg Pike (SR 106/US 431) and Harpeth-Peytonsville Road/Site Access A

- Preliminary signal warrant analysis determined that a signal is warranted under existing conditions. However, these preliminary analyses were based on traffic projections made due to Covid-19 and not on actual counts representing traffic conditions without the impacts of Covid-19. Therefore, a full signal warrant analysis should be completed when traffic conditions have stabilized and prior to the completion of 35 lots within the Pleasant Creek development.
- Until a signal is installed, the eastbound approach of Site Access A should be stop-controlled, and a stop bar and R1-1 'Stop' sign should be installed on the egress approach.
- Site Access A should be designed to include sufficient width for one entering lane and three exiting lanes. The exiting approach should include one left-turn lane with a minimum of 125 feet of storage, one through lane, and one right-turn lane with a minimum of 125 feet of storage.
- Provide a northbound left-turn lane on Lewisburg Pike (SR 106/US 431) with a minimum of 150 feet of storage length.
- Provide a southbound right-turn lane on Lewisburg Pike (SR 106/US 431) with a minimum of 75 feet of storage length.

### Lewisburg Pike (SR 106/US 431) and Site Access B

• The eastbound approach of Site Access B should be stop-controlled, and a stop bar and R1-1 'Stop' sign should be installed on the egress approach.

- Site Access B should be designed to include sufficient width for one entering lane and two exiting lanes. The exiting approach should include one left-turn lane and one right-turn lane.
- Provide a northbound left-turn lane on Lewisburg Pike (SR 106/US 431) with a minimum of 150 feet of storage length.
- Provide a southbound right-turn lane on Lewisburg Pike (SR 106/US 431) with a minimum of 75 feet of storage length.

## Additional Recommendations

- As part of the construction of the project, all internal and external roadway connections should be designed such that the departure sight triangles, as specified by AASHTO, will be clear of all sight obstructions, including landscaping, existing vegetation, monument signs/walls, fences, etc.
- Final design of internal roadways and parking should meet all Town of Thompson's Station standards. Internal intersections should be two-way stopcontrolled unless all-way stop control warrants are met.

In summary, based on the analyses conducted, no further recommendations are presented for the proposed Pleasant Creek development.

### **APPENDICES**

APPENDIX A
PRELIMINARY SITE PLAN

APPENDIX B
DETAILED TURNING MOVEMENT COUNTS

APPENDIX C
TDOT COUNT DATA

APPENDIX D
CAPACITY ANALYSES

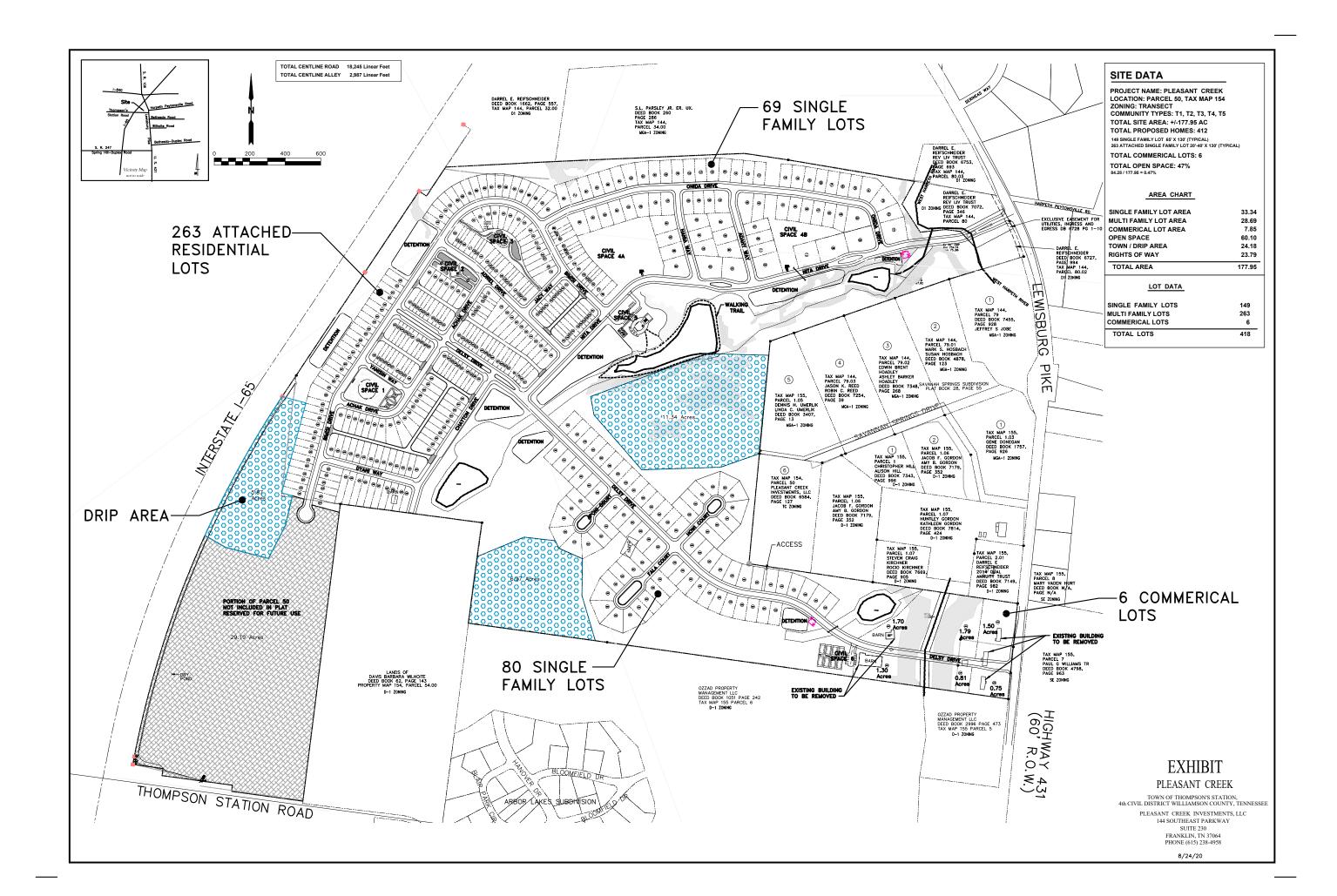
APPENDIX E
BACKGROUND DEVELOPMENTS

APPENDIX F
TRIP GENERATION CALCULATIONS

APPENDIX G
WARRANT ANALYSIS

## APPENDIX A PRELIMINARY SITE PLAN





# APPENDIX B DETAILED TURNING MOVEMENT COUNTS





#### INTERSECTION TRAFFIC VOLUME COUNTS

1 - Lewisburg Hwy & Thompson Station Rd East 7/21/2020 Darryl Glascock

LOCATION: DATE: RECORDER: NOTES:

| 168 |
|-----|
| 320 |
| 509 |
| 670 |
| 657 |
| 644 |
| 580 |
| 542 |
| 387 |
| 248 |
| 123 |

| Time   |             |    | outhbour |     | Northbound |     |   | Westbound |   |   | Eastbound |    |         |
|--|-------------|----|----------|-----|------------|-----|---|-----------|---|---|-----------|----|---------|
| 6:00-615 AM  | LOCATION    |    |          |     |            |     |   |           |   |   |           |    |         |
| 6:15-8:30 6:30-8:45 6:45-7:00 7:00-7:15 2:6 8:8 10 94 7:15-7:30 20 7:14 97 7:15-7:30 30 15 17 7:45-8:00 26 9 9 0 93 15 17 7:45-8:00 26 9 9 0 93 11 11 17 17 6 8:80-8:15 33 10 4 92 13 3:15-8:30 30 14 8 633 11 17 17 6 8:80-8:15 33 10 4 92 13 3:15-8:30 30 14 8 633 11 17 17 6 8 8:30-8:45 28 8 8:45-9:00 35 18 6 47 11 14 3 3 9:00-9:15 9:15 9:15 9:15 9:15 9:15 9:15 9:15   |             | -1 |          | 3   | 4          | 3   | ь |           | 8 | 9 | 10        | 11 | 12      |
| 6-30-6-45  |             |    |          |     |            | 1   |   |           |   |   |           |    |         |
| 6.457-00   |             |    |          |     |            |     |   |           |   |   |           |    |         |
| 7:157-30   |             |    |          |     |            |     |   |           |   |   |           |    |         |
| 7:30-745   38   15   17   97   1   1   17   4   8   800-815   33   10   4   92   1   13   3   3   3   8   800-815   33   10   4   92   1   13   3   3   3   3   8   8   8   8   8  | 7:00-7:15   |    | 26       | 8   | 10         | 94  |   |           |   |   | 21        |    | 9       |
| T458-90  | 7:15-7:30   |    | 20       | 7   | 14         | 97  |   |           |   |   | 11        |    | 3       |
| 8:00-8:15   33   10   4   92         13   3   3   3   8:15-8:30   30   14   8   63   1   |             |    |          |     |            |     |   | 1         |   |   |           |    |         |
| 8:158-30   |             |    |          |     |            |     |   |           |   |   |           |    |         |
| 8459-00  |             |    |          |     |            |     |   | _         |   |   |           |    |         |
| 8.45-9.00  |             |    |          |     |            |     |   | 1         |   |   |           |    |         |
| 9:00-9:15   9:05-930   9:05-930   9:05-930   9:05-930   9:05-930   9:05-930   9:05-930   9:05-930   9:05-930   9:05-930   9:05-930   9:05-930   9:05-930   9:05-935   |             |    |          |     |            |     |   |           |   |   |           |    |         |
| 9:15-930 9:30-945 9:30-945 9:45-1000 1:000-10-15 1:0015-10-30 1:030-10-45 1:005-10-15 1:10011-15 1: |             |    | 33       | 10  |            | 7,  |   |           |   |   | 14        |    | 3       |
| 930-945 9 945-1000 1 1000-1015 1015-1030 1 |             |    |          |     |            |     |   |           |   |   |           |    |         |
| 1000-10-15 1015-1030 1030-10-35 1030-10-35 1030-10-35 1100-1115 1115-1130 1130-1145 11145-1200 PM 1220-12-15 12215-12-30 1230-1245 1245-100 100-115 115-130 130-145 13 |             |    |          |     |            |     |   |           |   |   |           |    |         |
| 1015-1030 1030-1045 1030-1045 1100-1115 1115-1130 1130-1145 1115-1130 1130-1145 1245-1200 PM 1200-1215 1230-1245 1230-1245 1230-1245 1230-1245 130-145 115-130 130-145 115-130 130-145 115-130 130-145 115-130 130-145 145-130 145-200 140-145 148-304 148-304 148-304 149-308-315 315-330 330-345 3345-400 400-415 415-430 90 24 7 39 1 9 9 1 9 11 15 505-515 106-500-515 106-28 107-28 149-500-515 108-28 109-500-515 109-500-500-515 109-500-515 109-500-515 109-500-515 109-500-515 109-500-50 | 9:45-10:00  |    |          |     |            |     |   |           |   |   |           |    |         |
| 1039-1036 11:00-11:15 11:15-11:30 11:30-11:45 11:45-130 11:30-145 11:45-200 2:00-2:15 2:15-2:30 2:20-2:15 2:15-2:30 2:20-2:15 2:15-2:30 2:30-2:45 2:45-3:30 3:00-3:15 3:15-3:30 3:30-3:45 3:45-3:40 4:00-4:15 148 34 14 49 1 36 22 4:15-4:30 90 24 7 39 1 1 19 11 4:30-4:45 98 29 3 31 1 1 22 8 4 4:50-5:00 119 30 7 40 114 10 5:00-5:15 106 28 10 44 1 1 1 1 16 14 5:00-5:15 5:15-5:30 119 31 4 30 16 6 9 5:30-5:45 107 28 4 25 114 3 3 16 9 5:30-5:45 107 28 4 25 114 3 3 16 9 5:30-5:45 107 28 4 25 114 3 3 16 9 5:30-5:45 107 28 4 25 114 3 3 16 9 5:30-5:45 107 28 4 25 114 3 3 16 9 5:30-5:45 107 28 4 25 114 3 3 16 9 5:30-5:45 107 28 4 25 114 3 3 16 9 5:30-5:45 107 28 4 25 107 28 28 28 28 28 28 28 28 28 28 28 28 28   |             |    |          |     |            |     |   |           |   |   |           |    |         |
| 1036-11-00 11:00-11:15 11:00-11:15 11:00-11:15 11:00-11:15 11:00-11:15 11:00-12:15 12:00-12:15 12:00-12:15 13:00-12:15 13:00-13:15 13:00-1 |             |    |          |     |            |     |   |           |   |   |           |    |         |
| 11:00-11:15 11:30-11:45 11:45-12:00 PM 12:00-12:16 12:15-12:30 12:30-12:45 12:45-100 11:00-11:5 11:01-11:5 11: |             |    |          |     |            |     |   |           |   |   |           |    | <b></b> |
| 11:15-11:30 11:30-11:45 11:30-11:45 11:30-11:45 11:30-11:45 11:30-11:45 11:30-11:45 11:30-11:45 11:30-11:45 11:30-11:45 11:30-11:5 1 |             |    |          |     |            |     |   |           |   |   |           |    |         |
| 11:30-11:45  |             |    |          |     |            |     |   |           |   |   |           |    |         |
| 11:45:12:00 PM 12:00-12:15 12:30-12:45 12:30-12:45 13:00-11:5 13:01-145 145 145 145 145 145 145 145 145 145  |             |    |          |     |            |     |   |           |   |   |           |    |         |
| 12:00-12:15 12:15-12:30 12:30-12:45 12:45-1:00 13:00-11:15 11:15-13:0 13:01-145 11:15-13:0 13:01-145 13:15-2:00 2:00-2:15 2:15-2:30 2:20-2:45 2:45-3:00 3:30-3:15 3:15-3:30 3:30-3:15 3:15-3:30 3:30-3:15 3:15-3:30 3:30-3:15 11:30-145 11:3 |             |    |          |     |            |     |   |           |   |   |           |    |         |
| 12:15-12:30 12:30-12:45 12:45-1:00 1:00-1:15 1:15-1:30 1:30-1:45 1:36-2:00 2:00-2:15 2:15-2:30 2:30-2:45 2:45-3:30 3:00-3:15 3:45-4:00 4:00-4:15 148 34 14 49 1 36 22 4:15-4:30 90 24 77 39 1 119 21 119 21 115 5:00-5:15 106 28 10 44 1 1 1 16 14 5:00-5:15 106 28 10 44 1 1 16 14 3:545-500 89 17 6 28 4 25 1 14 3 3 3 5:45-6:00 6:30-6:45 6:35-6:30 6:30-6:45 6:36-7:00 7:00-7:15 7:05-7:30 7:30-7:45 7:70-7:15 7:7 |             |    |          |     |            |     |   |           |   |   |           |    |         |
| 12:30-12:45 12:45-1:00 13:00-13:5 11:51-30 13:01-45 13:45-2:00 2:00-2:15 2:15-2:30 2:30-2:45 2:45-3:00 3:00-3:15 3:15-3:30 3:30-3:45 3:45-4:00 4:00-4:15 148 34 14 49 36 36 22 4:15-4:30 90 24 7 39 1 1 19 11 4:30-4:45 98 29 3 31 1 22 8 4:45-5:00 119 30 7 40 1 14 10 5:00-5:15 106 28 10 44 1 1 1 16 14 5:15-5:20 119 31 4 30 7 40 5:30-5:45 1107 28 4 25 1107 28 4 25 114 30 116 9 5:30-5:45 107 28 4 25 107 40 1 14 3 116 14 3 117 4 30 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1   |             |    |          |     |            |     |   |           |   |   |           |    |         |
| 1:00-1:15 1:15-1:30 1:30-1:45 1:45-2:00 2:00-2:15 2:15-2:30 2:30-2:45 2:45-3:00 3:00-3:15 3:15-3:30 3:30-3:45 3:45-4:00 4:00-4:15 1:48 3:4 4:15-4:30 90 2:4 7 3:9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1  | 12:30-12:45 |    |          |     |            |     |   |           |   |   |           |    |         |
| 1:15-1:30 1:30-1:45 1:45-2:00 2:00-2:15 2:15-2:30 2:30-2:45 2:45-3:00 3:30-3:15 3:15-3:30 3:30-3:45 3:45-4:00 4:00-4:15 148 34 14 49 4:00-4:15 148 34 14 49 4:30-4:45 98 29 3 31 1 1 22 88 4:45-5:00 119 30 7 40 140-4:45 98 29 3 31 1 1 166 144 5:15-5:30 119 31 4 30 5:30-5:45 107 28 4 25 114 30 6:00-6:15 6:15-6:30 89 17 6 28 10 19 10 10 10 10 10 10 10 10 10 10 10 10 10  |             |    |          |     |            |     |   |           |   |   |           |    |         |
| 1:30-1:45 1:45-2:00 2:00-2:15 2:15-2:30 2:30-2:45 2:30-2:45 2:30-2:45 2:30-3:45 3:35-3:30 3:30-3:45 3:45-3:30 3:30-3:45 3:45-4:30 90 2:4 7 39 1 1 22 8 4:15-4:30 90 24 7 39 1 1 22 8 4:45-5:00 119 30 7 40 40 114 10 5:00-5:15 106 28 10 44 1 11 11 16 14 15 15-5:30 119 31 4 30 110 5:30-5:45 107 28 4 25 4 25 114 3 5:45-6:00 89 17 6 28 19 17 6 28 19 18 19 19 11 10 10 10 10 10 10 10 10 10 10 10 10   |             |    |          |     |            |     |   |           |   |   |           |    |         |
| 1:45-2:00 2:00-2:15 2:15-2:30 2:30-2:45 2:45-3:00 3:00-3:15 3:15-3:30 3:30-3:45 3:45-4:00 4:00-4:15 148 34 144 49 4:30-4:45 98 29 3 31 1 1 222 8 4:45-5:00 119 30 7 40 40 114 11 16 14 10 5:00-5:15 106 28 10 44 1 1 1 16 9 5:30-5:45 107 28 4 28 4 25 114 3 5:45-6:00 89 17 6 28 10 19 114 3 14 3 5:45-6:00 89 17 6 28 10 19 114 11 10 16 14 11 16 14 13 16 17 28 14 25 16 16 19 17 28 17 18 18 18 18 18 18 18 18 18 18 18 18 18  |             |    |          |     |            |     |   |           |   |   |           |    |         |
| 2:00-2:15 2:15-2:30 2:30-246 2:30-246 2:45-3:00 3:00-3:15 3:30-3:45 3:35-3:30 3:30-3:45 3:45-4:00 3:45-4:00 4:15 4:10-4:15 148 34 14 49 36 22 4:15-4:30 90 24 7 39 1 19 11 122 8 4:45-5:00 119 30 7 40 114 10 5:00-5:15 106 28 10 44 1 1 1 16 14 10 5:00-5:15 106 28 10 44 1 1 1 16 14 3 5:45-6:00 89 17 6 28 4 25 114 3 5:45-6:00 89 17 6 28 4 25 114 3 5:45-6:00 89 17 6 28 4 25 114 3 5:45-6:00 89 17 6 28 4 25 114 3 5:45-6:00 89 17 6 28 6 3-6:45-7:00 7 7:00-7:15 7:15-7:30 7:30-7:45 7:45-8:00 8:30-8:45 8:30-8:45 9:30-9:45 9:30-9:45  |             |    |          |     |            |     |   |           |   |   |           |    |         |
| 2:15-2:30 2:30-2:45 2:45-3:00 3:00-3:15 3:15-3:30 3:30-3:45 3:45-4:00 4:00-4:15 148 34 14 49 36 22 4:15-4:30 90 24 7 39 1 19 111 4:30-4:45 98 29 3 31 1 22 8 4:45-5:00 119 30 7 40 114 116 116 14 5:15-5:30 119 31 4 30 16 9 5:30-5:45 107 28 4 25 14 3 16 9 5:30-5:45 107 28 4 25 14 3 12 7 6:00-6:15 6:15-6:30 89 17 6 28 1 12 7 6:00-6:15 6:15-6:30 89 17 6 28 1 12 7 6:00-6:15 6:15-6:30 89 17 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1   |             |    |          |     |            |     |   |           |   |   |           |    |         |
| 2:30-2:45 2:45-3:00 3:30-3:15 3:15-3:30 3:30-3:45 3:45-4:00 4:00-4:15 148 34 14 49 36 22 4:15-4:30 90 24 7 39 1 1 122 8 4:45-5:00 119 30 7 40 40 114 10 5:00-5:15 106 28 10 44 30 119 31 4 30 16 9 5:30-5:45 107 28 4 25 114 3 5:45-6:00 89 17 6 28 10 18 19 11 22 18 10 11 11 16 14 3 5:45-6:00 89 17 6 28 10 18 19 11 20 18 10 18 18 18 18 18 18 18 18 18 18 18 18 18  |             |    |          |     |            |     |   |           |   |   |           |    |         |
| 2:45-3:00 3:00-3:15 3:15-3:30 3:30-3:45 3:345-4:00 3:40-4:15 148 34 14 49 36 22 4:15-4:30 90 24 7 39 1 11 22 8 4:45-5:00 119 30 7 40 40 114 10 5:05-5:15 106 28 10 44 1 11 116 116 14 5:15-5:30 119 31 4 30 110 3:545-6:00 89 17 6 28 4 25 4 14 3 3 5:45-6:00 89 17 6 28 4 28 6 12 7 6:00-6:15 6:15-6:30 6:30-6:45 6:45-7:00 7:00-7:15 7:15-7:30 7:30-7:45 7:45-8:00 8:00-8:15 8:15-8:30 8:30-8:45 8:45-9:00 9:00-9:15 8:15-8:30 8:30-8:45 8:45-9:00 9:00-9:15 8:15-8:30 8:30-8:45 8:45-9:00 9:00-9:15 8:15-8:30 8:45-9:00 9:00-9:15 8:15-9:30 9:30-9:45 9:45-10:00 PM TOTAL 1,112 310 123 934 2 3 11 279 123 AMPKHR 117 41 41 379 1 1 60 0 188  |             |    |          |     |            |     |   |           |   |   |           |    |         |
| 3:00-3:15 3:15-3:30 3:30-3:45 3:45-4:00 4:00-4:15 148 34 14 49 36 22 4:15-4:30 90 24 7 39 1 19 11 4:30-4:45 98 29 3 31 1 1 22 8 4:45-5:00 119 30 7 40 40 144 10 5:00-5:15 106 28 10 44 1 11 6 114 30 5:15-5:30 119 31 4 30 116 9 5:30-5:45 107 28 4 25 114 3 5:45-6:00 89 17 6 28 10 14 3 5:45-6:00 89 17 6 28 10 12 7 6 6:00-6:15 6:15-6:30 6:30-6:45 6:45-7:00 7:30-7:15 7:15-7:30 7:30-7:45 7:45-8:00 8:00-8:15 8:15-8:30 8:30-8:45 8:59-00 9:90-9:15 9:15-9:30 9:30-9:45 9:45-10:00 PM TOTAL 1,112 310 123 934 2 3 11 279 123 AMPKHR 117 41 41 379 1 1 60 60 188   |             |    |          |     |            |     |   |           |   |   |           |    |         |
| 3:30-3:45 3:45-4:00 4:00-4:15 148 34 14 49 36 22 4:15-4:30 90 24 7 39 1 1 122 8 4:45-5:00 1119 30 7 40 40 114 116 146 5:10-5:30 119 31 4 30 5:30-5:45 107 28 4 25 114 3 5:45-6:00 89 17 6 28 17 6 28 17 6 28 17 6 18 6:15-6:30 6:30-6:45 7:00-7:15 7:15-7:30 7:30-7:45 7:45-8:00 8:00-8:15 8:15-8:30 8:00-8:15 8:15-8:30 8:00-8:15 8:15-8:30 8:00-8:15 9:30-9:45 9:30-9:45 9:30-9:45 9:30-9:45 9:45-10:00 PM TOTAL 1,112 310 123 934 2 3 112 79 123 AMPK HR 117 41 41 41 379 1 1 60 188  |             |    |          |     |            |     |   |           |   |   |           |    |         |
| 3:45-4:00 4:00-4:15 148 34 14 49 36 22 4:15-4:30 90 24 7 39 1 19 11 4:30-4:45 98 29 3 31 1 1 22 8 4:45-5:00 119 30 7 40 14 10 5:00-5:15 106 28 10 44 1 1 16 14 30 5:30-5:45 107 28 4 25 114 3 5:45-6:00 89 17 6 28 17 6 28 112 7 6:00-6:15 6:15-6:30 6:30-6:45 6:45-7:00 7:00-7:15 7:15-7:30 7:30-7:45 7:45-8:00 8:00-8:15 8:15-8:30 8:00-8:15 8:15-8:30 8:30-8:45 8:45-9:00 9:00-9:15 9:30-9:45 9:45-10:00 PM TOTAL 1,112 310 123 934 2 3 11 279 123 AMPK HR 117 41 41 379 1 1 60 188   | 3:15-3:30   |    |          |     |            |     |   |           |   |   |           |    |         |
| 4:00-4:15  |             |    |          |     |            |     |   |           |   |   |           |    |         |
| 4:15-4:30       90       24       7       39       1       19       11         4:30-4:45       98       29       3       31       1       22       8         4:45-5:00       119       30       7       40       14       10         5:00-5:15       106       28       10       44       1       1       16       9         5:30-5:45       107       28       4       25       14       3       3       3       4       3       3       3       4       3       3       4       3       4       3       3       4 </td <td></td>   |             |    |          |     |            |     |   |           |   |   |           |    |         |
| 4:30-4:45 98 29 3 31 1 1 22 8 8 4:45-5:00 1119 30 7 40 114 10 5:00-5:15 106 28 10 44 1 1 1 16 14 5:15-5:30 1119 31 4 30 16 9 5:30-5:45 107 28 4 25 14 3 3 5:45-6:00 89 17 6 28 1 12 7 6:00-6:15 10 10 10 10 10 10 10 10 10 10 10 10 10   |             |    |          |     |            |     | 4 |           |   |   |           |    |         |
| 4:45-5:00       119       30       7       40       14       10         5:00-5:15       106       28       10       44       1       1       16       14         5:15-5:30       119       31       4       30       16       9         5:30-5:45       107       28       4       25       14       3         5:45-6:00       89       17       6       28       12       7         6:00-6:15       6       6       6       4       25       12       7         6:15-6:30       6       6       4       7       6       28       12       7         6:45-7:00       7<  |             |    |          |     |            |     | 1 | 1         |   |   |           |    |         |
| 5:00-5:15         106         28         10         44         1         1         16         14           5:15-5:30         119         31         4         30         16         9           5:35-5:45         107         28         4         25         14         3           5:45-6:00         89         17         6         28         12         7           6:00-6:15         6         89         17         6         28         12         7           6:00-6:15         6         89         17         6         28         12         7           6:045-7:00         7 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>- '</td><td></td><td></td><td></td><td></td><td></td></td<>  |             |    |          |     |            |     |   | - '       |   |   |           |    |         |
| 5:15-5:30         119         31         4         30         16         9           5:30-5:45         107         28         4         25         14         3           5:45-6:00         89         17         6         28         12         7           6:00-6:15         6         7         6         7         9         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         9         7         7         7         7         8         7         7         8         7         7         8         7  |             |    |          |     |            |     | 1 |           |   | 1 |           |    |         |
| 5:30-5:45       107       28       4       25       14       3         5:45-6:00       89       17       6       28       12       7         6:00-6:15       6       7       6       7       8       7       7       7       7       7       7       7       7       7       7       7       7       8       7       7       8       7       8       8       9       8       9       8       8       8       8   |             |    |          |     |            |     |   |           |   |   |           |    |         |
| 6:00-6:15 6:15-6:30 6:30-6:45 6:45-7:00 7:00-7:15 7:15-7:30 7:30-7:45 7:45-8:00 8:00-8:15 8:15-8:30 8:30-8:45 8:45-9:00 9:00-9:15 9:15-9:30 9:30-9:45 9:45-10:00 PM 1070 PM 10 |             |    |          |     |            |     |   |           |   |   |           |    |         |
| 6:15-6:30 6:30-6:45 6:45-7:00 7:00-7:15 7:15-7:30 7:30-7:45 7:45-8:00 8:00-8:15 8:15-8:30 8:30-8:45 8:45-9:00 9:00-9:15 9:15-9:30 9:30-9:45 9:45-10:00 PM TOTAL 1,112 310 123 934 2 3 1 279 123 AMPKHR 117 41 41 379 1 1 600 188   |             |    | 89       | 17  | 6          | 28  |   |           |   |   | 12        |    | 7       |
| 6:30-6:45 6:45-7:00 7:00-7:15 7:15-7:30 7:30-7:45 7:45-8:00 8:00-8:15 8:15-8:30 8:30-8:45 9:45-9:00 9:00-9:15 9:15-9:30 9:30-9:45 9:45-10:00 PM TOTAL 1,112 310 123 934 2 3 1 279 123 AM PK HR 117 41 41 379 1 60 18   |             |    |          |     |            |     |   |           |   |   |           |    |         |
| 6:45-7:00 7:00-7:15 7:15-7:30 7:30-7:45 7:45-8:00 8:00-8:15 8:15-8:30 8:30-8:45 8:45-9:00 9:00-9:15 9:15-9:30 9:30-9:45 9:45-10:00 PM TOTAL 1,112 310 123 934 2 3 1 279 123 AM PK HR 117 41 41 379 1 60 18   |             |    |          |     |            |     |   |           |   |   |           |    |         |
| 7:00-7:15 7:15-7:30 7:30-7:45 7:35-8:00 8:00-8:15 8:15-8:30 8:30-8:45 8:45-9:00 9:00-9:15 9:15-9:30 9:30-9:45 9:45-10:00 PM TOTAL 1,112 310 123 934 2 3 1 279 123 AM PK HR 117 41 41 379 1 600 18  |             |    |          |     | 1          | -   |   | 1         |   |   | -         |    |         |
| 7:15-7:30 7:30-7:45 7:30-7:45 7:45-8:00 8:00-8:15 8:15-8:30 8:30-8:45 8:45-9:00 9:00-9:15 9:15-9:30 9:30-9:45 9:45-10:00 PM 1070 PM 10 |             |    |          |     |            |     |   |           |   |   |           |    |         |
| 7:30-7:45 7:45-8:00 8:00-8:15 8:15-8:30 8:30-8:45 8:45-9:00 9:00-9:15 9:15-9:30 9:30-9:45 9:45-10:00 PM TOTAL 1,112 310 123 934 2 3 1 279 123 AM PK HR 117 41 41 379 1 1 600 18 MID PK HR  |             |    |          |     |            |     |   |           |   |   |           |    |         |
| 7:45-8:00 8:00-8:15 8:15-8:30 8:30-8:45 8:45-9:00 9:00-9:15 9:15-9:30 9:30-9:45 9:45-10:00 PM TOTAL 1,112 310 123 934 2 3 1 279 123 AM PK HR 117 41 41 379 1 60 18   |             |    |          |     |            |     |   |           |   |   |           |    |         |
| 8:00-8:15 8:15-8:30 8:30-8:45 8:45-9:00 9:00-9:15 9:15-9:30 9:30-9:45 9:45-10:00 PM TOTAL 1,112 310 123 934 2 3 1 279 123 AM PK HR 1117 41 41 379 1 60 18 MID PK HR  |             |    |          |     |            |     |   |           |   |   |           |    |         |
| 8:30-8:45 8:45-9:00 9:00-9:15 9:15-9:30 9:30-9:45 9:45-10:00 PM TOTAL 1,112 310 123 934 2 3 1 279 123 AM PK HR 117 41 41 379 1 60 18   |             |    |          |     |            |     |   |           |   |   |           |    |         |
| 8:45-9:00 9:00-9:15 9:15-9:30 9:30-9:45 9:45-10:00 PM TOTAL 1,112 310 123 934 2 3 1 279 123 AM PK HR 117 41 41 379 1 60 18 MID PK HR   |             |    |          |     |            |     |   |           |   |   |           |    |         |
| 9:00-9:15 9:15-9:30 9:30-9:45 9:45-10:00 PM TOTAL 1,112 310 123 934 2 3 1 279 123 AM PK HR 117 41 41 379 1 60 18   |             |    |          |     |            |     |   |           |   |   |           |    |         |
| 9:15-9:30 9:30-9:45 9:45-10:00 PM TOTAL 1,112 310 123 934 2 3 1 279 123 AM PK HR 117 41 41 379 1 60 18 MID PK HR   |             |    |          |     |            |     |   |           |   |   |           |    |         |
| 9:30-9:45<br>9:45-10:00 PM   |             |    |          |     |            |     |   |           |   |   |           |    |         |
| 9:45-10:00 PM  TOTAL   |             |    |          |     |            |     |   |           |   |   |           |    |         |
| TOTAL         1,112         310         123         934         2         3         1         279         123           AM PK HR         117         41         41         379         1         60         18           MID PK HR         117         41         41         379         1         60         18   |             |    |          |     |            |     |   |           |   |   |           |    |         |
| AM PK HR         117         41         41         379         1         60         18           MID PK HR         60         18         60         18   |             |    | 1 112    | 310 | 123        | 934 | 2 | 3         |   | 1 | 279       |    | 123     |
| MID PK HR  |             |    |          |     |            |     |   |           |   | - |           |    |         |
|  |             |    |          |     | <u> </u>   |     |   | <u> </u>  |   |   |           |    |         |
| 1 1.00   | PM PK HR    |    | 442      | 118 | 24         | 145 | 1 | 1         |   | 1 | 68        |    | 41      |



LOCATION

TIME 6:00-6:15 AM 6:15-6:30

6:30-6:45

6:45-7:00

#### INTERSECTION TRAFFIC VOLUME COUNTS

Northbound

Road B

North

Southbound

Road A

LOCATION: 2 Lewisburg Hwy & Bethesda

DATE: RECORDER:

7/21/2020 Darryl Glascock

Westbound

Road C

NOTES:

Eastbound Road D

162 315 672

7:00-7:15 30 115 13 7:15-7:30 6 104 4 2 12 25 7:30-7:45 5 48 113 29 5 7:45-8:00 3 32 109 3 3 6 8:00-8:15 9 40 104 12 8:15-8:30 4 40 79 11 8:30-8:45 9 35 77 6 19 8 48 61 12 8:45-9:00 9:00-9:15 9:15-9:30 9:30-9:45 9:45-10:00 10:00-10:15 10:15-10:30 10:30-10:45 10:45-11:00 11:00-11:15 11:15-11:30 11:30-11:45 11:45-12:00 PM 12:00-12:15 12:15-12:30 12:30-12:45 12:45-1:00 1:00-1:15 1:15-1:30 1:30-1:45 1:45-2:00 2:00-2:15 2:15-2:30 2:30-2:45 2:45-3:00 3:00-3:15 3:15-3:30 3:30-3:45 3:45-4:00 4:00-4:15 15 120 50 3 4:15-4:30 12 116 56 3 10 4:30-4:45 22 120 42 11 6 11 4:45-5:00 9 145 54 6 8 5:00-5:15 16 108 56 4 5 7 5:15-5:30 12 150 46 6 3 8 23 124 5:30-5:45 36 3 2 8 11 100 34 7 4 5:45-6:00 1 6:00-6:15 6:15-6:30 6:30-6:45 6:45-7:00 7:00-7:15 7:15-7:30 7:30-7:45 7:45-8:00 8:00-8:15 8:15-8:30 8:30-8:45 8:45-9:00 9:00-9:15 9:15-9:30 9:30-9:45 9:45-10:00 PM TOTAL 166 1,281 1,136 51 174 65 AM PK HR 145 9 11 23 430 59 MID PK HR PM PK HR 523 198 18 34

7:15 AM - 8:15 AM

4:30 PM - 5:30 PM



North



3 Lewsiburg Hwy & Harpeth Peytonsville 7/21/2020 Darryl Glascock LOCATION:

DATE: RECORDER:

NOTES:

| 174 |
|-----|
| 341 |
| 530 |
| 693 |
| 692 |
| 671 |
| 644 |
| 619 |
| 446 |

300 138

|                               | 5       | Southboun  | d | Northbound |           |          |          | Westbound   |     | Eastbound |    |    |
|-------------------------------|---------|------------|---|------------|-----------|----------|----------|-------------|-----|-----------|----|----|
| LOCATION                      |         | Lewisburg  |   |            | Lewisburg |          | Harp     | eth Peytons |     | na        |    |    |
| TIME                          | 1       | 2          | 3 | 4          | 5         | 6        | 7        | 8           | 9   | 10        | 11 | 12 |
| 6:00-6:15 AM                  |         |            |   |            |           |          |          |             |     |           |    |    |
| 6:15-6:30<br>6:30-6:45        |         |            |   |            |           |          |          |             |     |           |    |    |
| 6:45-7:00                     |         |            |   |            |           |          |          |             |     |           |    |    |
| 7:00-7:15                     | 4       | 27         |   |            | 103       | 23       | 8        |             | 9   |           |    |    |
| 7:15-7:30                     | 6       | 24         |   |            | 104       | 18       | 7        |             | 8   |           |    |    |
| 7:30-7:45                     | 6       | 38         |   |            | 115       | 16       | 9        |             | 5   |           |    |    |
| 7:45-8:00                     | 10      | 27         |   |            | 97        | 16       | 6        |             | 7   |           |    |    |
| 8:00-8:15<br>8:15-8:30        | 3<br>5  | 40<br>36   |   |            | 100<br>79 | 14<br>12 | 9<br>10  |             | 7   |           |    |    |
| 8:30-8:45                     | 3       | 40         |   |            | 92        | 12       | 9        |             | 6   |           |    |    |
| 8:45-9:00                     | 1       | 42         |   |            | 62        | 13       | 11       |             | 9   |           |    |    |
| 9:00-9:15                     |         |            |   |            |           |          |          |             |     |           |    |    |
| 9:15-9:30                     |         |            |   |            |           |          |          |             |     |           |    |    |
| 9:30-9:45                     |         |            |   |            |           |          |          |             |     |           |    |    |
| 9:45-10:00                    |         |            |   |            |           |          |          |             |     |           |    |    |
| 10:00-10:15<br>10:15-10:30    |         |            |   | 1          |           |          | 1        |             |     |           |    |    |
| 10:30-10:45                   |         |            |   |            |           |          |          |             |     |           |    |    |
| 10:45-11:00                   |         |            |   |            |           |          |          |             |     |           |    |    |
| 11:00-11:15                   |         |            |   |            |           |          |          |             |     |           |    |    |
| 11:15-11:30                   |         |            |   |            |           |          |          |             |     |           |    |    |
| 11:30-11:45<br>11:45-12:00 PM |         |            |   |            |           |          |          |             |     |           |    |    |
| 11:45-12:00 PM<br>12:00-12:15 |         |            |   |            |           |          |          |             |     |           |    |    |
| 12:15-12:30                   |         |            |   |            |           |          |          |             |     |           |    |    |
| 12:30-12:45                   |         |            |   |            |           |          |          |             |     |           |    |    |
| 12:45-1:00                    |         |            |   |            |           |          |          |             |     |           |    |    |
| 1:00-1:15                     |         |            |   |            |           |          |          |             |     |           |    |    |
| 1:15-1:30                     |         |            |   |            |           |          |          |             |     |           |    |    |
| 1:30-1:45                     |         |            |   |            |           |          |          |             |     |           |    |    |
| 1:45-2:00<br>2:00-2:15        |         |            |   |            |           |          |          |             |     |           |    |    |
| 2:15-2:30                     |         |            |   |            |           |          |          |             |     |           |    |    |
| 2:30-2:45                     |         |            |   |            |           |          |          |             |     |           |    |    |
| 2:45-3:00                     |         |            |   |            |           |          |          |             |     |           |    |    |
| 3:00-3:15                     |         |            |   |            |           |          |          |             |     |           |    |    |
| 3:15-3:30                     |         |            |   |            |           |          |          |             |     |           |    |    |
| 3:30-3:45<br>3:45-4:00        |         |            |   |            |           |          |          |             |     |           |    |    |
| 4:00-4:15                     | 7       | 120        |   |            | 40        | 17       | 17       |             | 9   |           |    |    |
| 4:15-4:30                     | 6       | 105        |   |            | 48        | 7        | 18       |             | 9   |           |    |    |
| 4:30-4:45                     | 6       | 116        |   |            | 45        | 14       | 22       |             | 8   |           |    |    |
| 4:45-5:00                     | 10      | 123        |   |            | 44        | 15       | 24       |             | 10  |           |    |    |
| 5:00-5:15                     | 11      | 111        |   |            | 45        | 13       | 29       |             | 7   |           |    |    |
| 5:15-5:30<br>5:30-5:45        | 10<br>4 | 132<br>118 |   |            | 46<br>31  | 7<br>8   | 20<br>26 |             | 7 8 |           |    |    |
| 5:45-6:00                     | 3       | 96         |   |            | 32        | 5        | 13       |             | 3   |           |    |    |
| 6:00-6:15                     |         |            |   |            |           |          |          |             |     |           |    |    |
| 6:15-6:30                     |         |            |   |            |           |          |          |             |     |           |    |    |
| 6:30-6:45                     |         |            |   |            |           |          |          |             |     |           |    |    |
| 6:45-7:00<br>7:00-7:15        |         |            |   |            |           |          |          |             |     |           |    |    |
| 7:00-7:15<br>7:15-7:30        |         |            |   |            |           |          |          |             |     |           |    |    |
| 7:30-7:45                     |         |            |   |            |           |          |          |             |     |           |    |    |
| 7:45-8:00                     |         |            |   |            |           |          |          |             |     |           |    |    |
| 8:00-8:15                     |         |            |   |            |           |          |          |             |     |           |    |    |
| 8:15-8:30                     |         |            |   |            |           |          |          |             |     |           |    |    |
| 8:30-8:45                     |         |            |   |            |           |          |          |             |     |           |    |    |
| 8:45-9:00                     |         |            |   |            |           |          |          |             |     |           |    |    |
| 9:00-9:15<br>9:15-9:30        |         |            |   |            |           |          |          |             |     |           |    |    |
| 9:30-9:45                     |         |            |   |            |           |          |          |             |     |           |    |    |
| 9:45-10:00 PM                 |         |            |   |            |           |          |          |             |     |           |    |    |
| TOTAL                         | 95      | 1,195      |   |            | 1,083     | 210      | 238      |             | 116 |           |    |    |
| AM PK HR                      | 25      | 129        |   |            | 416       | 64       | 31       |             | 27  |           |    |    |
| MID PK HR                     | 07      | 400        |   |            | 400       | 40       | 0.5      |             | 20  |           |    |    |
| PM PK HR                      | 37      | 482        |   |            | 180       | 49       | 95       | l .         | 32  |           |    |    |

210





#### INTERSECTION TRAFFIC VOLUME COUNTS

4 Buckner Rd & Thompson Station East 7/21/2020 Darryl Glascock LOCATION:

DATE: RECORDER:

NOTES:

| 13 |
|----|
| 30 |
| 52 |
| 70 |
| 74 |
| 73 |
| 69 |
| 68 |
| 51 |
| 34 |
| 16 |

|                               | Southbound |    | N | lorthbour | nd      |          | Westbound |             | Eastbound |                    |          |          |
|-------------------------------|------------|----|---|-----------|---------|----------|-----------|-------------|-----------|--------------------|----------|----------|
| LOCATION                      |            | NA |   |           | Buckner |          |           | mpson Stati |           | Thompson Station E |          |          |
| TIME                          | 1          | 2  | 3 | 4         | 5       | 6        | 7         | 8           | 9         | 10                 | 11       | 12       |
| 6:00-6:15 AM<br>6:15-6:30     |            |    |   |           |         |          |           |             |           |                    |          |          |
| 6:30-6:45                     |            |    |   |           |         |          |           |             |           |                    |          |          |
| 6:45-7:00                     |            |    |   |           |         |          |           |             |           |                    |          |          |
| 7:00-7:15                     |            |    |   | 22        |         | 79       | 11        | 6           |           |                    | 5        | 8        |
| 7:15-7:30                     |            |    |   | 48        |         | 77       | 5         | 12          |           |                    | 22       | 10       |
| 7:30-7:45                     |            |    |   | 54        |         | 106      | 30        | 19          |           |                    | 3        | 10       |
| 7:45-8:00                     |            |    |   | 35        |         | 67       | 28        | 20          |           |                    | 9        | 18       |
| 8:00-8:15<br>8:15-8:30        |            |    |   | 27<br>40  |         | 71<br>81 | 31<br>28  | 10<br>8     |           |                    | 11<br>2  | 17<br>11 |
| 8:30-8:45                     |            |    |   | 37        |         | 79       | 26        | 11          |           |                    | 7        | 17       |
| 8:45-9:00                     |            |    |   | 32        |         | 64       | 34        | 9           |           |                    | 6        | 21       |
| 9:00-9:15                     |            |    |   |           |         |          |           |             |           |                    |          |          |
| 9:15-9:30                     |            |    |   |           |         |          |           |             |           |                    |          |          |
| 9:30-9:45                     |            |    |   |           |         |          |           |             |           |                    |          |          |
| 9:45-10:00                    |            |    |   |           |         |          |           |             |           |                    |          |          |
| 10:00-10:15<br>10:15-10:30    |            |    |   |           |         |          |           |             |           |                    |          |          |
| 10:30-10:45                   |            |    |   |           |         |          |           |             |           |                    |          |          |
| 10:45-11:00                   |            |    |   |           |         |          |           |             |           |                    |          |          |
| 11:00-11:15                   |            |    |   |           |         |          |           |             |           |                    |          |          |
| 11:15-11:30                   |            |    |   |           |         |          |           |             |           |                    |          |          |
| 11:30-11:45                   |            |    |   |           |         |          |           |             |           |                    |          |          |
| 11:45-12:00 PM<br>12:00-12:15 |            |    |   |           |         |          |           |             |           |                    |          |          |
| 12:15-12:30                   |            |    |   |           |         |          |           |             |           |                    |          |          |
| 12:30-12:45                   |            |    |   |           |         |          |           |             |           |                    |          |          |
| 12:45-1:00                    |            |    |   |           |         |          |           |             |           |                    |          |          |
| 1:00-1:15                     |            |    |   |           |         |          |           |             |           |                    |          |          |
| 1:15-1:30                     |            |    |   |           |         |          |           |             |           |                    |          |          |
| 1:30-1:45                     |            |    |   |           |         |          |           |             |           |                    |          |          |
| 1:45-2:00<br>2:00-2:15        |            |    |   |           |         |          |           |             |           |                    |          |          |
| 2:15-2:30                     |            |    |   |           |         |          |           |             |           |                    |          |          |
| 2:30-2:45                     |            |    |   |           |         |          |           |             |           |                    |          |          |
| 2:45-3:00                     |            |    |   |           |         |          |           |             |           |                    |          |          |
| 3:00-3:15                     |            |    |   |           |         |          |           |             |           |                    |          |          |
| 3:15-3:30                     |            |    |   |           |         |          |           |             |           |                    |          |          |
| 3:30-3:45<br>3:45-4:00        |            |    |   |           |         |          |           |             |           |                    |          |          |
| 4:00-4:15                     |            |    |   | 17        |         | 50       | 95        | 9           |           |                    | 14       | 52       |
| 4:15-4:30                     |            |    |   | 15        |         | 36       | 107       | 9           |           |                    | 14       | 44       |
| 4:30-4:45                     |            |    |   | 12        |         | 39       | 136       | 15          |           |                    | 13       | 47       |
| 4:45-5:00                     |            |    |   | 17        |         | 40       | 125       | 7           |           |                    | 12       | 62       |
| 5:00-5:15                     |            |    |   | 25        |         | 37       | 113       | 5           |           |                    | 11       | 57       |
| 5:15-5:30                     |            |    |   | 17        |         | 43       | 155       | 8           |           |                    | 7        | 76       |
| 5:30-5:45<br>5:45-6:00        |            |    |   | 19<br>16  |         | 31<br>37 | 114<br>93 | 6<br>10     |           |                    | 15<br>12 | 61<br>43 |
| 6:00-6:15                     |            |    |   | 10        |         | 31       | 33        | 10          |           |                    | 12       | 73       |
| 6:15-6:30                     |            |    |   |           |         |          |           |             |           |                    |          |          |
| 6:30-6:45                     |            |    | _ |           |         |          |           |             |           |                    |          |          |
| 6:45-7:00                     |            |    |   |           |         |          |           |             |           |                    |          |          |
| 7:00-7:15                     |            |    |   |           |         |          |           |             |           |                    |          |          |
| 7:15-7:30<br>7:30-7:45        |            |    |   |           |         |          |           |             |           |                    |          |          |
| 7:30-7:45<br>7:45-8:00        |            |    |   |           |         |          |           |             |           |                    |          |          |
| 8:00-8:15                     |            |    |   |           |         |          |           |             |           |                    |          |          |
| 8:15-8:30                     |            |    |   |           |         |          |           |             |           |                    |          |          |
| 8:30-8:45                     |            |    | _ |           |         |          |           |             |           |                    |          |          |
| 8:45-9:00                     |            |    |   |           |         |          |           |             |           |                    |          |          |
| 9:00-9:15                     |            |    |   |           |         |          |           |             |           |                    |          |          |
| 9:15-9:30                     |            |    |   |           |         |          |           |             |           |                    |          |          |
| 9:30-9:45<br>9:45-10:00 PM    |            |    |   |           |         |          |           |             |           |                    |          |          |
| 70TAL                         |            |    |   | 433       |         | 937      | 1,131     | 164         |           |                    | 163      | 554      |
| AM PK HR                      |            |    |   | 164       |         | 321      | 94        | 61          |           |                    | 45       | 55       |
| MID PK HR                     |            |    | _ |           |         |          |           |             |           |                    |          |          |
| PM PK HR                      |            |    |   | 71        |         | 159      | 529       | 35          |           |                    | 43       | 242      |





LOCATION:

Thompson Station E & Pantail Rd 7/21/2020 Darryl Glascock

North

DATE: RECORDER: NOTES:

| TIME   |                       | •   | outhboun | nd  | N | orthbour | nd |   | Westbound | Eastbound |     |     |  |
|--|-----------------------|-----|----------|-----|---|----------|----|---|-----------|-----------|-----|-----|--|
| TIME   1   2   3   4   5   6   7   8   9   10   11   12    S00-0-15 AM   | LOCATION              |     |          |     |   |          | iu |   |           |           |     |     |  |
| 6:00-6:15 AM 6:15 6:30 6:30 6:45 6:45 7:00 6:30 6:45 6:45 7:00 7:00-7:15 1 1:11 1:13 1:3 2 66 21 7:70-7:15 1:11 1:13 1:3 2 66 21 7:70-7:15 1:11 1:13 1:3 2 66 21 7:70-7:15 1:11 1:13 1:3 2 66 21 7:70-7:15 1:11 1:13 1:3 2 66 21 1:77 7:30-7:46 1:19 1:10 1:10 1:10 1:10 1:10 1:10 1:10  |                       |     |          |     | 4 |          | 6  |   |           |           |     |     |  |
| 6:15-8:30 6:45-7:00 7:40-7:15 1  | 6:00-6:15 AM          |     |          |     |   |          |    |   |           |           |     |     |  |
| 6.45-700 700-715   | 6:15-6:30             |     |          |     |   |          |    |   |           |           |     |     |  |
| T-00-71-5  | 6:30-6:45             |     |          |     |   |          |    |   |           |           |     |     |  |
| 7:15-730   | 6:45-7:00             |     |          |     |   |          |    |   |           |           |     |     |  |
| 7:30-745 1 9 9 28 1 91 17 745-800 2 24 166 2 56 18 800-815 10 20 17 17 1 63 14 81-815-830 16 19 9 64 17 1 1 63 14 81-815-830 16 19 9 64 17 1 1 63 14 81-815-830 17 16 19 9 64 17 19 81-815-830 17 19 9 14 14 67 19 81-815-815-815-815-815-815-815-815-815-8  |                       | 1   |          |     |   |          |    |   |           | 2         |     |     |  |
| 7.45-800   |                       |     |          |     |   |          |    |   |           |           |     |     |  |
| 8:00-8:15  |                       | 1   |          |     |   |          |    |   |           |           |     |     |  |
| 8:158:30   |                       |     |          |     |   |          |    |   |           |           |     |     |  |
| 8.39.845   19   14   67   7   19   9.09.915   9.09.915   9.39.945  |                       |     |          |     |   |          |    |   |           | 1         |     |     |  |
| 8.45-9.00 1 24 24 23 2 54 15 900-915 915-930 930-915 930-945 9 |                       |     |          |     |   |          |    |   |           |           |     |     |  |
| 9:00-915   9:30-945    |                       | - 1 |          |     |   |          |    |   |           | 2         |     |     |  |
| 9:15-9:30 9:30-9:45 9:45-10:00 10:20-10:15 10:20-10:15 10:20-10:15 10:20-10:15 10:20-10:15 11:20-11:20 |                       |     |          | 24  |   |          |    |   | 25        |           | 34  | 10  |  |
| 9:30-945 9:45-10:00 10:00-10:15 10:15-10:30 10:00-10:15 10:15-11:30 10:15-11:30 11:15-11:30 11:15-11:30 11:30-11:45 11:45-12:30 12:45-12:30 12:45-12:30 13:01:45 13:0 |                       |     |          |     |   |          |    |   |           |           |     |     |  |
| 9.45-10.00 10:00-10:15 10:15-10:30 10:30-10:45 10:15-10:30 11:30-11:15 11:30-11:15 11:30-11:15 11:30-11:45 11:30-11:45 11:30-11:45 11:45-12:00 PM 12:00-12:15 12:45-1:30 12:30-12:45 12:45-1:30 12:30-12:45 12:45-1:30 12:30-12:45 12:45-1:30 12:30-12:45 12:45-1:30 12:30-12:45 12:45-1:30 12:30-12:45 12:45-1:30 12:30-12:45 12:45-1:30 12:30-12:45 12:45-1:30 12:30-12:45 12:45-1:30 12:30-12:45 12:45-1:30 12:30-12:45 12:45-1:30 12:30-12:45 12:45-1:30 12:30-12:45 12:45-1:30 12:30-12:45 12:45-1:30 12:30-12:45 12:45-1:30 12:30-12:45 12:45-2:00 12:30-12:45 12:45-2:00 12:30-12:45 12:45-2:30 12:30-12:45 12:45-2:30 12:30-12:45 12:45-3:30 13:30-3:35 13:30-3:30-3:35 13:30-3:30-3:35 13:30-3:30-3:35 13:30-3:30-3:35 13:30-3:30-3:35 13:30-3:30-3:35 13:30-3:30-3:35 13:30-3:30-3:35 13:30-3:30-3:35 13:30-3:30-3:35 13:30-3:30-3:35 13:30-3:30-3:35 13:30-3:30-3:35 13:30-3:30-3:35 13:30-3:30-3:35 13:30-3:30-3:35 13:30-3:30-3:35 13:30-3:30-3:30-3:35 13:30-3:30-3:30-3:30 13:30-3:30-3:3 |                       |     |          |     |   |          |    |   |           |           |     |     |  |
| 10.00-10-15  |                       |     |          |     |   |          |    |   |           |           |     |     |  |
| 10.30.10.45  |                       |     |          |     |   |          |    |   |           |           |     |     |  |
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| 110-51-110-0 111:00-11116 111:00-11116 111:00-11116 11130 1130-11146 11145-1200 PM 12:00-12:15 12:15-12:30 12:30-12:45 12:45-100 1:00-115 115-130 1:00-115 115-130 1:00-115 1: |                       |     |          |     |   |          |    |   |           |           |     |     |  |
| 11:15:11:30 11:30-11:45 11:30-11:45 11:30-11:45 11:45-12:00 PM 12:00:12:15 12:30-12:45 12:45-1:00 1:00-1:15 1:15-1:30 1:00-1:15 1:15-1:30 1:00-1:15 1:15-1:30 1:00-1:15 1:15-1:30 1:00-1:15 1:15-1:30 1:00-1:15 1:15-1:30 1:00-1:15 1:15-1:30 1:00-1:15 1:15-1:30 1:00-1:15 1:15-1:30 1:00-1:15 1:15-1:30 1:00-1:15 1:15-1:30 1:00-1:15 1:15-1:30 1:00-1:15 1:15-1:30 1:00-1:15 1:15-1:30 1:00-1:15 1:00-1:1 |                       |     |          |     |   |          |    |   |           |           |     |     |  |
| 11:30-11:45 11:30-11:45 12:15-12:30 12:15-12:30 12:30-12:45 12:45-100 1:00-11:5 1:00-1 |                       |     |          |     |   |          |    |   |           |           |     |     |  |
| 11:45-12:00 PM 12:00-12:15 12:30-12:45 12:30-12:45 12:30-12:45 13:00-11:5 13:01-145 13:01-145 13:01-145 13:01-145 13:01-145 14:52-200 13:00-145 14:52-30 14:52-30 15:00-515 15:00-515 15:00-515 16:00-615 16:00-615 17:15-7:30 17:15-7:30 17:15-7:30 17:15-7:30 17:15-7:30 17:15-7:30 17:15-7:30 17:15-7:30 18:15-7:30 19:15-7:30 10:15-7: |                       |     |          |     |   |          |    |   |           |           |     |     |  |
| 12:00-12:15 12:15-12:30 12:30-12:45 12:45-1:00 13:00-115 115-13:0 13:01-145 13:01-145 13: |                       |     |          |     |   |          |    |   |           |           |     |     |  |
| 12:15-12:30 12:30-12:45 12:30-12:45 10:00-115 1:00-115 1:15-130 1:30-135 1: |                       |     |          |     |   |          |    |   |           |           |     |     |  |
| 12:30-12:45 12:45-1:00 12:45-1:00 13:01-135 13:15-130 13:01-136 13 |                       |     |          |     |   |          |    |   |           |           |     |     |  |
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| 4:00-4:15     2     87     21     1     30     29       4:15-4:30     3     95     25     1     25     21       4:30-4:45     1     106     28     22     18       4:45-5:00     1     103     33     28     20       5:00-5:15     2     99     27     28     18       5:15-5:30     1     118     35     1     32     19       5:30-5:45     1     85     34     1     21     19       5:45-6:00     3     77     23     1     26     15       6:00-6:15     6     6     6     6     6     6     15       6:15-6:30     6     6     6     6     6     6     15       6:45-7:00     7     7     7     7     7     7     7       7:30-7:45     7     7     7     7     7     7     7     7     7     7     1     7     1   |                       |     |          |     |   |          |    |   |           |           |     |     |  |
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| 4:30-4:45  |                       |     |          |     |   |          |    |   |           |           |     |     |  |
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| 5:00-5:15         2         99         27         28         18           5:15-5:30         1         118         35         1         32         19           5:30-5:45         1         85         34         1         21         19           5:45-6:00         3         77         23         1         26         15           6:00-6:15         6         6         6         1         20         15           6:15-6:30         6         6         4         6         4         6         1         6         1         6         1         6         1         1         1         6         1 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>  |                       |     |          |     |   |          |    |   |           |           |     |     |  |
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| 5:30-5:45         1         85         34         1         21         19           5:45-6:00         3         77         23         1         26         15           6:00-6:15         6         7         7         7         7         7         7         7         8         7         7         8         7         7         8         7         8         7         7         8         7         8         7         8         7         8         9         9         9         9         9         9         9         9         9         9  |                       |     |          |     |   |          |    |   |           | 1         |     |     |  |
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| 8:00-8:15 8:15-8:30 8:30-8:45 8:45-9:00 9:00-9:15 9:15-9:30 9:30-9:45 9:45-10:00 PM TOTAL 17 922 AMPKHR 1 82 777 4 273 66 MID PK HR  |                       |     |          |     |   |          |    |   |           |           |     |     |  |
| 8:15-8:30 8:30-8:45 8:45-9:00 9:00-9:15 9:15-9:30 9:30-9:45 9:45-10:00 PM TOTAL 17 922 372 13 736 297 AM PK HR 1 82 777 4 273 66 MID PK HR   |                       |     |          |     |   |          |    |   |           |           |     |     |  |
| 8:30-8:45 8:45-9:00 9:00-9:15 9:05-9:30 9:30-9:45 9:45-10:00 PM TOTAL 17 922 372 13 736 297 AM PK HR 1 82 77 4 273 66 MID PK HR  |                       | 1   |          |     |   |          |    | 1 |           | 1         | 1   |     |  |
| 8:45-9:00 9:00-9:15 9:15-9:30 9:30-9:45 9:45-10:00 PM TOTAL 17 922 372 13 736 297 AM PK HR 1 82 77 4 273 66 MID PK HR  |                       |     |          |     |   |          |    |   |           |           | 1   |     |  |
| 9:00-9:15 9:15-9:30 9:30-9:45 9:45-10:00 PM TOTAL 17 922 372 13 736 297 AM PK HR 1 82 77 4 273 66 MID PK HR  |                       |     |          |     |   |          |    | 1 |           | 1         |     |     |  |
| 9:15-9:30<br>9:30-9:45<br>9:45-10:00 PM<br>TOTAL 17 922 372 13 736 297<br>AM PK HR 1 82 777 4 273 66<br>MID PK HR  |                       |     |          |     |   |          |    |   |           |           |     |     |  |
| 9:30-9:45 9:45-10:00 PM  TOTAL 17 922 372 13 736 297  AM PK HR 1 82 77 4 273 66  MID PK HR   |                       |     |          |     |   |          |    |   |           |           |     |     |  |
| 9:45-10:00 PM     372     13     736     297       TOTAL     17     922     372     13     736     297       AM PK HR     1     82     77     4     273     66       MID PK HR   |                       |     |          |     |   |          |    |   |           |           |     |     |  |
| AM PK HR         1         82         77         4         273         66           MID PK HR  |                       |     |          |     |   |          |    |   |           |           |     |     |  |
| MID PK HR  |                       | 17  |          | 922 |   |          |    |   | 372       | 13        | 736 | 297 |  |
|  |                       | 1   |          | 82  |   |          |    |   | 77        | 4         | 273 | 66  |  |
|  | MID PK HR<br>PM PK HR | 5   |          | 426 |   |          |    |   | 123       | 1         | 110 | 75  |  |

119





#### INTERSECTION TRAFFIC VOLUME COUNTS

LOCATION: Lewisburg Hwy & Thompson Station Rd

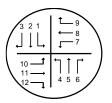
DATE: RECORDER: 4/28/2015 Darryl Glascock

25-35 cars in que eastbound Thompson station rd from 6:15am until 7:45 am at during and at end of each 15 min sequence. Intersection not signalized. NOTES:

|                            |   |                       |                                       |           | l = =4 l= l= =         |     |          |           | nin sequer | ence. Intersection not signalized  Eastbound |      |          |  |
|----------------------------|---|-----------------------|---------------------------------------|-----------|------------------------|-----|----------|-----------|------------|--|------|----------|--|
| LOCATION                   |   | outhbour<br>wisburg F |                                       |           | lorthbour<br>wisburg F |     |          | Westbound |            | Thompson Station Rd                          |      |          |  |
| TIME                       | 1 | 2                     | 3 3                                   | 4         | 5                      | 6 6 | 7        | 8         | 9          | 10   | 11   | 12       |  |
| 6:00-6:15 AM               | - |                       | 3                                     | 4         |                        |     | <i>'</i> |           | 3          | 10   | - '' | 12       |  |
| 6:15-6:30                  |   |                       |                                       |           |                        |     |          |           |            |  |      |          |  |
| 6:30-6:45                  |   | 8                     | 17                                    | 13        | 253                    |     |          |           |            | 63   |      |          |  |
| 6:45-7:00                  |   | 21                    | 30                                    | 15        | 228                    |     |          |           |            | 65   |      |          |  |
| 7:00-7:15                  |   | 21                    | 36                                    | 16        | 218                    |     |          |           |            | 56   |      | 3        |  |
| 7:15-7:30                  |   | 22                    | 12                                    | 11        | 234                    |     |          |           |            | 60   |      | 4        |  |
| 7:30-7:45                  |   | 29                    | 8                                     | 5         | 168                    |     |          |           |            | 74   |      | 4        |  |
| 7:45-8:00                  |   | 4                     | 19                                    | 6         | 138                    |     |          |           |            | 47   |      | 7        |  |
| 8:00-8:15<br>8:15-8:30     |   | 25<br>40              | 18<br>45                              | 10<br>6   | 101<br>86              |     |          |           |            | 82<br>62                                     |      | 11<br>2  |  |
| 8:30-8:45                  |   | 40                    | 45                                    | 0         | 00                     |     |          |           |            | 02   |      |          |  |
| 8:45-9:00                  |   |                       |                                       |           |                        |     |          |           |            |  |      |          |  |
| 9:00-9:15                  |   |                       |                                       |           |                        |     |          |           |            |  |      |          |  |
| 9:15-9:30                  |   |                       |                                       |           |                        |     |          |           |            |  |      |          |  |
| 9:30-9:45                  |   |                       |                                       |           |                        |     |          |           |            |  |      |          |  |
| 9:45-10:00                 |   |                       |                                       |           |                        |     |          |           |            |  |      |          |  |
| 10:00-10:15                |   |                       |                                       |           |                        |     |          |           |            |  |      |          |  |
| 10:15-10:30<br>10:30-10:45 |   |                       |                                       |           |                        |     |          |           |            |  |      |          |  |
| 10:30-10:45                |   |                       |                                       |           |                        |     | 1        |           |            |  |      |          |  |
| 11:00-11:15                |   |                       |                                       |           |                        |     |          |           |            |  |      |          |  |
| 11:15-11:30                |   |                       |                                       |           |                        |     |          |           |            |  |      |          |  |
| 11:30-11:45                |   |                       |                                       |           |                        |     |          |           |            |  |      |          |  |
| 11:45-12:00 PM             |   |                       |                                       |           |                        |     |          |           |            |  |      |          |  |
| 12:00-12:15                |   |                       |                                       |           |                        |     |          |           |            |  |      |          |  |
| 12:15-12:30                |   |                       |                                       |           |                        |     |          |           |            |  |      |          |  |
| 12:30-12:45                |   |                       |                                       |           |                        |     |          |           |            |  |      |          |  |
| 12:45-1:00<br>1:00-1:15    |   |                       |                                       |           |                        |     |          |           |            |  |      |          |  |
| 1:15-1:30                  |   |                       |                                       |           |                        |     |          |           |            |  |      |          |  |
| 1:30-1:45                  |   |                       |                                       |           |                        |     |          |           |            |  |      |          |  |
| 1:45-2:00                  |   |                       |                                       |           |                        |     |          |           |            |  |      |          |  |
| 2:00-2:15                  |   |                       |                                       |           |                        |     |          |           |            |  |      |          |  |
| 2:15-2:30                  |   |                       |                                       |           |                        |     |          |           |            |  |      |          |  |
| 2:30-2:45                  |   |                       |                                       |           |                        |     |          |           |            |  |      |          |  |
| 2:45-3:00                  |   |                       |                                       |           |                        |     |          |           |            |  |      |          |  |
| 3:00-3:15<br>3:15-3:30     |   |                       |                                       |           |                        |     |          |           |            |  |      |          |  |
| 3:30-3:45                  |   |                       |                                       |           |                        |     |          |           |            |  |      |          |  |
| 3:45-4:00                  |   |                       |                                       |           |                        |     |          |           |            |  |      |          |  |
| 4:00-4:15                  |   | 93                    | 25                                    | 5         | 42                     |     |          |           |            | 19   |      | 9        |  |
| 4:15-4:30                  |   | 99                    | 58                                    | 1         | 45                     |     |          |           |            | 27   |      | 10       |  |
| 4:30-4:45                  |   | 113                   | 45                                    | 3         | 29                     |     |          |           |            | 18   |      | 11       |  |
| 4:45-5:00                  |   | 102                   | 54                                    | 5         | 25                     |     |          |           |            | 28   |      | 8        |  |
| 5:00-5:15                  |   | 120                   | 38                                    | 7         | 30                     |     |          |           |            | 28   |      | 12       |  |
| 5:15-5:30<br>5:30-5:45     |   | 146<br>138            | 43<br>75                              | 5<br>3    | 31<br>30               |     |          |           |            | 29<br>20                                     |      | 7<br>11  |  |
| 5:45-6:00                  |   | 101                   | 67                                    | 1         | 24                     |     |          |           |            | 19   |      | 5        |  |
| 6:00-6:15                  |   |                       | , , , , , , , , , , , , , , , , , , , | •         |                        |     |          |           |            |  |      |          |  |
| 6:15-6:30                  |   |                       |                                       |           |                        |     |          |           |            |  |      |          |  |
| 6:30-6:45                  |   |                       |                                       |           |                        |     |          |           |            |  |      |          |  |
| 6:45-7:00                  |   |                       |                                       |           |                        |     |          |           |            |  |      |          |  |
| 7:00-7:15                  |   |                       |                                       |           |                        |     |          |           |            |  |      |          |  |
| 7:15-7:30                  |   |                       |                                       |           |                        |     |          |           |            |  |      |          |  |
| 7:30-7:45<br>7:45-8:00     |   |                       |                                       |           |                        |     |          |           |            |  |      |          |  |
| 8:00-8:15                  |   |                       |                                       |           |                        |     |          |           |            |  |      |          |  |
| 8:15-8:30                  |   |                       |                                       |           |                        |     | 1        |           |            |  |      |          |  |
| 8:30-8:45                  |   |                       |                                       |           |                        |     | 1        |           |            |  |      |          |  |
| 8:45-9:00                  |   |                       |                                       |           |                        |     |          |           |            |  |      |          |  |
| 9:00-9:15                  |   |                       |                                       |           |                        |     |          |           |            |  |      |          |  |
| 9:15-9:30                  |   |                       |                                       |           |                        |     |          |           |            |  |      |          |  |
| 9:30-9:45                  |   |                       |                                       |           |                        |     |          |           |            |  |      |          |  |
| 9:45-10:00 PM              |   | 1.000                 | E00                                   | 110       | 1.000                  |     |          |           |            | 607  |      | 101      |  |
| TOTAL<br>AM PK HR          |   | 1,082<br>72           | 590<br>95                             | 112<br>55 | 1,682<br>933           | -   | 1        |           | -          | 697<br>244                                   |      | 104<br>7 |  |
| MID PK HR                  |   | 12                    | 90                                    | JO        | ಶಾತಿ                   |     |          |           |            | 244  |      | - 1      |  |
| PM PK HR                   |   | 505                   | 223                                   | 16        | 115                    |     | 1        |           |            | 96   |      | 35       |  |
|                            |   |                       |                                       |           |                        |     |          |           |            |  |      |          |  |

713 1,063 1,406 1,340 1,202 1,099 997 709 488 241

6:30 AM - 7:30 AM 5:00 PM - 6:00 PM



12

6

5:30-5:45

5:45-6:00

6:00-6:15 6:15-6:30 6:30-6:45 6:45-7:00 7:00-7:15 7:15-7:30 7:30-7:45 7:45-8:00 8:00-8:15 8:15-8:30 174

142

LOCATION TIME

6:00-6:15 AM

Southbound

Lewisburg Pike



Westbound

8

**LOCATION:** Lewisburg Pike & Harpeth Peytonsville Road **DATE:** 4/28/2015

Harpeth Peytonsville Road Harpeth Peytonsville Road

10

9

Eastbound

11

12

DATE: 4/28/2015 RECORDER: Zack Murphy

North NOTES:

Northbound

Lewisburg Pike

| 0.00 0.10 / 1111 |    |     |  |     |    |    |    |    |  |
|------------------|----|-----|--|-----|----|----|----|----|--|
| 6:15-6:30        |    |     |  |     |    |    |    |    |  |
| 6:30-6:45        | 2  | 22  |  | 313 | 26 | 7  | 10 |    |  |
| 6:45-7:00        | 7  | 32  |  | 270 | 40 | 22 | 5  |    |  |
| 7:00-7:15        | 1  | 40  |  | 250 | 44 | 11 | 7  |    |  |
| 7:15-7:30        | 2  | 36  |  | 267 | 36 | 3  | 15 |    |  |
| 7:30-7:45        | 7  | 30  |  | 194 | 51 | 6  | 9  |    |  |
| 7:45-8:00        | 31 | 18  |  | 120 | 70 | 13 | 8  |    |  |
| 8:00-8:15        | 13 | 47  |  | 76  | 75 | 9  | 2  | Į. |  |
| 8:15-8:30        | 1  | 64  |  | 143 | 28 | 10 | 2  | Į. |  |
| 8:30-8:45        |    |     |  |     |    |    |    | Į. |  |
| 8:45-9:00        |    |     |  |     |    |    |    | Į. |  |
| 9:00-9:15        |    |     |  |     |    |    |    |    |  |
| 9:15-9:30        |    |     |  |     |    |    |    |    |  |
| 9:30-9:45        |    |     |  |     |    |    |    |    |  |
| 9:45-10:00       |    |     |  |     |    |    |    |    |  |
| 10:00-10:15      |    |     |  |     |    |    |    |    |  |
| 10:15-10:30      |    |     |  |     |    |    |    |    |  |
| 10:30-10:45      |    |     |  |     |    |    |    |    |  |
| 10:45-11:00      |    |     |  |     |    |    |    |    |  |
| 11:00-11:15      |    |     |  |     |    |    |    |    |  |
| 11:15-11:30      |    |     |  |     |    |    |    |    |  |
| 11:30-11:45      |    |     |  |     |    |    |    |    |  |
| 11:45-12:00 PM   |    |     |  |     |    |    |    |    |  |
| 12:00-12:15      |    |     |  |     |    |    |    |    |  |
| 12:15-12:30      |    |     |  |     |    |    |    |    |  |
| 12:30-12:45      |    |     |  |     |    |    |    |    |  |
| 12:45-1:00       |    |     |  |     |    |    |    |    |  |
| 1:00-1:15        |    |     |  |     |    |    |    |    |  |
| 1:15-1:30        |    |     |  |     |    |    |    |    |  |
| 1:30-1:45        |    |     |  |     |    |    |    |    |  |
| 1:45-2:00        |    |     |  |     |    |    |    |    |  |
| 2:00-2:15        |    |     |  |     |    |    |    |    |  |
| 2:15-2:30        |    |     |  |     |    |    |    |    |  |
| 2:30-2:45        |    |     |  |     |    |    |    |    |  |
| 2:45-3:00        |    |     |  |     |    |    |    |    |  |
| 3:00-3:15        |    |     |  |     |    |    |    |    |  |
| 3:15-3:30        |    |     |  |     |    |    |    |    |  |
| 3:30-3:45        |    |     |  |     |    |    |    |    |  |
| 3:45-4:00        |    |     |  |     |    |    |    |    |  |
| 4:00-4:15        | 12 | 107 |  | 63  | 9  | 21 | 3  |    |  |
| 4:15-4:30        | 7  | 136 |  | 59  | 13 | 27 | 3  |    |  |
| 4:30-4:45        | 7  | 147 |  | 43  | 12 | 28 | 4  |    |  |
| 4:45-5:00        | 2  | 118 |  | 60  | 7  | 31 | 4  |    |  |
| 5:00-5:15        | 9  | 137 |  | 49  | 18 | 30 | 5  |    |  |
| 5:15-5:30        | 6  | 167 |  | 44  | 14 | 30 | 5  |    |  |
|                  |    |     |  |     |    |    |    |    |  |

41

32

15

11

48

39

8

5

756 1,109 1,468 1,385 1,269 1,138 1,027 730 470 248

|               |     |       | <br> |       |     |     |    |   |  |
|---------------|-----|-------|------|-------|-----|-----|----|---|--|
| 8:30-8:45     |     |       |      |       |     |     |    |   |  |
| 8:45-9:00     |     |       |      |       |     |     |    |   |  |
| 9:00-9:15     |     |       |      |       |     |     |    |   |  |
| 9:15-9:30     |     |       |      |       |     |     |    |   |  |
| 9:30-9:45     |     |       |      |       |     |     |    |   |  |
| 9:45-10:00 PM |     |       |      |       |     |     |    |   |  |
| TOTAL         | 125 | 1,417 |      | 2,024 | 469 | 335 | 95 |   |  |
| AM PK HR      | 12  | 130   |      | 1,100 | 146 | 43  | 37 |   |  |
| MID PK HR     |     |       |      |       |     |     |    |   |  |
| PM PK HR      | 33  | 620   |      | 166   | 58  | 147 | 23 | · |  |

6:30 AM - 7:30 AM 5:00 PM - 6:00 PM





LOCATION: Pantall Rd & Thompson Station Rd DATE: 04/29/2015 RECORDER: Nathan Quinn

INTERSECTION TRAFFIC VOLUME COUNTS

NOTES:

|                               | Southbound |  | Northbound |   |            |    | Westbound |              | Eastbound |                     |          |  |
|-------------------------------|------------|--|------------|---|------------|----|-----------|--------------|-----------|---------------------|----------|--|
| LOCATION                      |            | Pantall Ro                                       |            | - | iortinbour | iu |           | npson Statio |           | Thompson Station Rd |          |  |
| TIME                          | 1          | 2  | 3          | 4 | 5          | 6  | 7         | 8            | 9         | 10                  | 11       | 12   |
| 6:00-6:15 AM                  |            |  |            |   |            |    |           |              |           |                     |          |  |
| 6:15-6:30                     |            |  |            |   |            |    |           |              |           |                     |          |  |
| 6:30-6:45                     | 1          |  | 9          |   |            |    |           | 20           |           | 37                  | 37       |  |
| 6:45-7:00                     |            |  | 43         |   |            |    |           | 42           | 1         | 30                  | 35       |  |
| 7:00-7:15<br>7:15-7:30        |            |  | 26<br>14   |   |            |    |           | 38<br>16     | 3         | 53<br>69            | 49<br>48 |  |
| 7:30-7:45                     |            |  | 2          |   |            |    |           | 11           | 3         | 62                  | 28       |  |
| 7:45-8:00                     | 3          |  | 11         |   |            |    |           | 11           | 1         | 54                  | 34       |  |
| 8:00-8:15                     | 2          |  | 8          |   |            |    |           | 13           |           | 51                  | 46       |  |
| 8:15-8:30                     | 2          |  | 13         |   |            |    |           | 18           | 1         | 56                  | 34       |  |
| 8:30-8:45                     |            |  |            |   |            |    |           |              |           |                     |          |  |
| 8:45-9:00                     |            |  |            |   |            |    |           |              |           |                     |          |  |
| 9:00-9:15                     |            |  |            |   |            |    |           |              |           |                     |          |  |
| 9:15-9:30<br>9:30-9:45        |            |  |            |   |            |    |           |              |           |                     |          |  |
| 9:45-10:00                    |            |  |            |   |            |    |           |              |           |                     |          |  |
| 10:00-10:15                   |            |  |            |   |            |    |           |              |           |                     |          |  |
| 10:15-10:30                   |            |  |            |   |            |    |           |              |           |                     |          |  |
| 10:30-10:45                   |            |  |            |   |            |    |           |              |           |                     |          |  |
| 10:45-11:00                   |            |  |            |   |            |    |           |              |           |                     |          |  |
| 11:00-11:15                   |            |  |            |   |            |    |           |              |           |                     |          |  |
| 11:15-11:30                   |            |  |            |   |            |    |           |              |           |                     |          |  |
| 11:30-11:45<br>11:45-12:00 PM |            |  |            |   |            |    |           |              |           |                     |          |  |
| 12:00-12:15                   |            |  |            |   |            |    |           |              |           |                     |          |  |
| 12:15-12:30                   |            |  |            |   |            |    |           |              |           |                     |          |  |
| 12:30-12:45                   |            |  |            |   |            |    |           |              |           |                     |          |  |
| 12:45-1:00                    |            |  |            |   |            |    |           |              |           |                     |          |  |
| 1:00-1:15                     |            |  |            |   |            |    |           |              |           |                     |          |  |
| 1:15-1:30                     |            |  |            |   |            |    |           |              |           |                     |          |  |
| 1:30-1:45                     |            |  |            |   |            |    |           |              |           |                     |          |  |
| 1:45-2:00<br>2:00-2:15        |            |  |            |   |            |    |           |              |           |                     |          |  |
| 2:15-2:30                     |            |  |            |   |            |    |           |              |           |                     |          |  |
| 2:30-2:45                     |            |  |            |   |            |    |           |              |           |                     |          |  |
| 2:45-3:00                     |            |  |            |   |            |    |           |              |           |                     |          |  |
| 3:00-3:15                     |            |  |            |   |            |    |           |              |           |                     |          |  |
| 3:15-3:30                     |            |  |            |   |            |    |           |              |           |                     |          |  |
| 3:30-3:45                     |            |  |            |   |            |    |           |              |           |                     |          |  |
| 3:45-4:00                     |            |  |            |   |            |    |           | 24           |           | 44                  | 40       |  |
| 4:00-4:15<br>4:15-4:30        | 2          |  | 53<br>102  |   |            |    |           | 34<br>30     | 1         | 11<br>20            | 19<br>24 | <del>                                     </del> |
| 4:30-4:45                     | 1          |  | 107        |   |            |    |           | 41           | 1         | 18                  | 34       |  |
| 4:45-5:00                     |            |  | 71         |   |            |    |           | 50           | 1         | 27                  | 30       |  |
| 5:00-5:15                     | 1          |  | 127        |   |            |    |           | 60           | 6         | 18                  | 22       |  |
| 5:15-5:30                     | 1          |  | 114        |   |            |    |           | 54           | 1         | 23                  | 30       |  |
| 5:30-5:45                     |            |  | 116        |   |            |    |           | 60           |           | 21                  | 29       |  |
| 5:45-6:00                     |            |  | 116        |   |            |    |           | 59           | 2         | 15                  | 28       |  |
| 6:00-6:15<br>6:15-6:30        |            |  |            | - |            |    |           |              |           |                     |          | <b>—</b>   |
| 6:30-6:45                     |            |  |            |   |            |    |           |              |           |                     |          |  |
| 6:45-7:00                     |            |  |            |   |            |    |           |              |           |                     |          |  |
| 7:00-7:15                     |            |  |            |   |            |    |           |              |           |                     |          |  |
| 7:15-7:30                     |            |  |            |   |            |    |           |              |           |                     |          |  |
| 7:30-7:45                     |            |  |            |   |            |    |           |              |           |                     |          |  |
| 7:45-8:00                     |            |  |            |   |            |    |           |              |           |                     |          |  |
| 8:00-8:15                     | ļ          | 1  |            |   |            | -  |           |              |           | ļ                   |          | <b></b>  |
| 8:15-8:30<br>8:30-8:45        |            |  |            | - |            |    |           |              |           |                     |          | <b>—</b>   |
| 8:45-9:00                     |            | <del>                                     </del> |            | l |            |    | <b>-</b>  |              |           |                     |          |  |
| 9:00-9:15                     |            |  |            |   |            |    |           |              |           |                     |          |  |
| 9:15-9:30                     |            |  |            |   |            |    |           |              |           |                     |          |  |
| 9:30-9:45                     |            |  |            |   |            |    |           |              |           |                     |          |  |
| 9:45-10:00 PM                 |            |  |            |   |            |    |           |              |           |                     |          |  |
| TOTAL                         | 13         |  | 932        |   |            |    |           | 557          | 25        | 565                 | 527      |  |
| AM PK HR                      | 1          |  | 92         |   |            |    |           | 116          | 8         | 189                 | 169      | <b></b>  |
| MID PK HR                     | _          | 1  | 470        | 1 |            | -  | -         | 222          |           | 77                  | 100      | <b> </b>   |
| PM PK HR                      | 2          |  | 473        |   |            | ı  |           | 233          | 9         | 77                  | 109      | 1  |

255 424 575

6:30 AM - 7:30 AM 5:00 PM - 6:00 PM



PM PK HR



#### INTERSECTION TRAFFIC VOLUME COUNTS

LOCATION: Buckner Lane & Thompson Station Road DATE: 04/30/2015
RECORDER: Nathan Quinn
NOTES:

|                | S | Southbound |   |     | Northbour |       |       | Westbound   |          | Eastbound |           |     |
|----------------|---|------------|---|-----|-----------|-------|-------|-------------|----------|-----------|-----------|-----|
| LOCATION       |   |            |   |     | Buckner L |       |       | npson Stati |          |           | pson Stat |     |
| TIME           | 1 | 2          | 3 | 4   | 5         | 6     | 7     | 8           | 9        | 10        | 11        | 12  |
| 6:00-6:15 AM   |   |            |   |     |           |       |       |             |          |           |           |     |
| 6:15-6:30      |   |            |   |     |           |       |       |             |          |           |           |     |
| 6:30-6:45      |   |            |   | 92  |           | 71    | 20    | 12          |          |           | 3         | 9   |
| 6:45-7:00      |   |            |   | 93  |           | 74    | 85    | 14          |          |           |           | 15  |
| 7:00-7:15      |   |            |   | 99  |           | 112   | 64    | 6           |          |           | 1         | 17  |
| 7:15-7:30      |   |            |   | 130 |           | 128   | 42    | 6           |          |           | 6         | 17  |
| 7:30-7:45      |   |            |   | 95  |           | 108   | 30    | 9           |          |           | 3         | 14  |
| 7:45-8:00      |   |            |   | 46  |           | 91    | 31    | 6           |          |           | 3         | 11  |
| 8:00-8:15      |   |            |   | 48  |           | 109   | 22    | 6           |          |           | 4         | 11  |
| 8:15-8:30      |   |            |   | 46  |           | 103   | 19    | 10          |          |           | 7         | 11  |
| 8:30-8:45      |   |            |   |     |           |       |       |             |          |           |           |     |
| 8:45-9:00      |   |            |   |     |           |       |       |             |          |           |           |     |
| 9:00-9:15      |   |            |   |     |           |       |       |             |          |           |           |     |
| 9:15-9:30      |   |            |   |     |           |       |       |             |          |           |           |     |
| 9:30-9:45      |   |            |   |     |           |       |       |             |          |           |           |     |
| 9:45-10:00     |   |            |   |     |           |       |       |             |          |           |           |     |
| 10:00-10:15    |   |            |   |     |           |       |       |             |          |           |           |     |
| 10:15-10:30    |   |            |   |     |           |       |       |             |          |           |           |     |
| 10:30-10:45    |   |            |   |     |           |       |       |             |          |           |           |     |
| 10:45-11:00    |   |            |   |     |           |       |       |             |          |           |           |     |
| 11:00-11:15    |   |            |   |     |           |       |       |             |          |           |           |     |
| 11:15-11:30    |   |            |   |     |           |       |       |             |          |           |           |     |
| 11:30-11:45    |   |            |   |     |           |       |       |             |          |           |           |     |
| 11:45-12:00 PM |   |            |   |     |           |       |       |             |          |           |           |     |
| 12:00-12:15    |   |            |   |     |           |       |       |             |          |           |           |     |
| 12:15-12:30    |   |            |   |     |           |       |       |             |          |           |           |     |
| 12:30-12:45    |   |            |   |     |           |       |       |             |          |           |           |     |
| 12:45-1:00     |   |            |   |     |           |       |       |             |          |           |           |     |
| 1:00-1:15      |   |            |   |     |           |       |       |             |          |           |           |     |
| 1:15-1:30      |   |            |   |     |           |       |       |             |          |           |           |     |
| 1:30-1:45      |   |            |   |     |           |       |       |             |          |           |           |     |
| 1:45-2:00      |   |            |   |     |           |       |       |             |          |           |           |     |
| 2:00-2:15      |   |            |   |     |           |       |       |             |          |           |           |     |
| 2:15-2:30      |   |            |   |     |           |       |       |             |          |           |           |     |
| 2:30-2:45      |   |            |   |     |           |       |       |             |          |           |           |     |
| 2:45-3:00      |   |            |   |     |           |       |       |             |          |           |           |     |
| 3:00-3:15      |   |            |   |     |           |       |       |             |          |           |           |     |
| 3:15-3:30      |   |            |   |     |           |       |       |             |          |           |           |     |
| 3:30-3:45      |   |            |   | 1   |           |       |       |             |          |           |           |     |
| 3:45-4:00      |   |            |   | 1   |           |       |       |             |          |           |           |     |
| 4:00-4:15      |   |            |   | 20  |           | 37    | 105   | 2           |          |           | 9         | 52  |
| 4:15-4:30      |   |            |   | 14  |           | 33    | 114   | 10          |          |           | 6         | 50  |
| 4:30-4:45      |   |            |   | 22  |           | 44    | 149   | 4           |          |           | 14        | 52  |
| 4:45-5:00      |   | <b>-</b>   |   | 19  | <u> </u>  | 35    | 162   | 13          | <u> </u> | 1         | 6         | 62  |
| 5:00-5:15      |   |            |   | 25  |           | 26    | 132   | 11          |          |           | 6         | 73  |
| 5:15-5:30      |   |            |   | 31  |           | 43    | 160   | 13          |          |           | 11        | 57  |
| 5:30-5:45      |   |            |   | 20  |           | 45    | 165   | 5           |          |           | 11        | 69  |
| 5:45-6:00      |   |            |   | 21  |           | 28    | 194   | 4           |          |           | 7         | 65  |
| 6:00-6:15      |   |            |   | 21  |           | 20    | 194   | 4           |          |           |           | 00  |
|                |   | 1          | - | 1   | 1         |       |       | 1           | 1        | 1         |           | -   |
| 6:15-6:30      |   | -          |   | 1   | -         |       |       |             | -        | <b> </b>  |           |     |
| 6:30-6:45      |   | 1          | - | 1   | 1         |       |       | <b></b>     | 1        | <b>!</b>  |           | 1   |
| 6:45-7:00      |   |            |   |     |           |       |       |             |          |           |           |     |
| 7:00-7:15      |   |            |   |     |           |       |       |             |          |           |           |     |
| 7:15-7:30      |   |            |   |     |           |       |       |             |          |           |           |     |
| 7:30-7:45      |   |            |   |     |           |       |       |             |          |           |           |     |
| 7:45-8:00      |   |            |   |     |           |       |       |             |          |           |           |     |
| 8:00-8:15      |   |            |   | 1   | <u> </u>  |       |       |             | <u> </u> |           |           |     |
| 8:15-8:30      |   | ļ          |   | 1   | ļ         |       |       |             | ļ        | <b>.</b>  |           |     |
| 8:30-8:45      |   | ļ          |   | 1   | ļ         |       |       |             | ļ        | <b>.</b>  |           |     |
| 8:45-9:00      |   |            |   |     |           |       |       |             |          |           |           |     |
| 9:00-9:15      |   |            |   |     |           |       |       |             |          |           |           |     |
| 9:15-9:30      |   |            |   |     |           |       |       |             |          |           |           |     |
| 9:30-9:45      |   |            |   |     |           |       |       |             |          |           |           |     |
| 9:45-10:00 PM  |   |            |   |     |           |       |       |             |          |           |           |     |
| TOTAL          |   |            |   | 821 |           | 1,087 | 1,494 | 131         |          |           | 97        | 585 |
| AM PK HR       |   |            |   | 414 |           | 385   | 211   | 38          |          |           | 10        | 58  |
| MID PK HR      |   |            |   |     |           |       |       |             |          |           |           |     |
| DM DV UD       |   |            |   |     |           |       |       |             |          |           |           |     |

97

142 651

33

225 452 737 1,034 1,082 1,170 1,200 1,222 949 634

6:30 AM - 7:30 AM 5:00 PM - 6:00 PM

35 264

# APPENDIX C TDOT COUNT DATA



|          |  | TDOT AADT DA                                      | TA   |  |  |  |
|----------|--|---|--|--|--|--|
| Station  | 65   | 66  | 64   | 93   |  |  |
| Route    | SR106  | 1928  | 996  | 980  |  |  |
| Location | Lewisburg Pike - E of I-65 -<br>B/W Cascade Eastates | Thompson's Station Road<br>East - W of I-65 - B/W | Bethesda Road - E of<br>Lewisburg Pk - B/W | Harpeth-Peytonsville<br>Road - E of Lewisburg Pk - |  |  |
| Location | Blvd and Wilhoite Rd                                 | Columbia Pk and Village                           | 3  | B/W Dotson Rd and                                  |  |  |
| Country  | Milliamana   | Dr  | Wv<br>W/III.amaan                          | Herbert Smithson Rd                                |  |  |
| County   | Williamson   | Williamson  | Williamson                                 | Williamson   |  |  |
| 2018     | 6,188  | 4,009   | 2,062                                      | 1,608  |  |  |
| 2017     | 6,714  | 2,824   | 1,116                                      | 1,677  |  |  |
| 2016     | 4,914  | 2,693   | 1,252                                      | 1,288  |  |  |
| 2015     | 5,087  | 2,666   | 1,229                                      | 1,419  |  |  |
| 2014     | 4,948  | 2,659   | 1,515                                      | 1,206  |  |  |
| 2013     | 4,899  | 2,404   | 1,500                                      | 1,210  |  |  |
| 2012     | 4,906  | 3,019   | 1,595                                      | 1,269  |  |  |
| 2011     | 4,767  | 2,634   | 1,325                                      | 1,231  |  |  |
| 2010     | 4,780  | 2,557   | 1,525                                      | 1,195  |  |  |
| 2009     | 4,817  | 2,590   | 1,709                                      | 1,163  |  |  |
| 2008     | 5,168  | 2,279   | 1,669                                      | 1,194  |  |  |
| 2007     | 5,021  | 3,720   | 1,844                                      | 1,230  |  |  |
| 2006     | 4,992  | 2,571   | 1,923                                      | 1,293  |  |  |

## APPENDIX D CAPACITY ANALYSES



## EXISTING CONDITIONS CAPACITY ANALYSES

| Intersection           |           |       |           |        |           |        |
|------------------------|-----------|-------|-----------|--------|-----------|--------|
| Int Delay, s/veh       | 662.6     |       |           |        |           |        |
| Movement               | EBL       | EBR   | NBL       | NBT    | SBT       | SBR    |
| Lane Configurations    | ¥         | LDIN  | INDL      | 4      | \$        | ODIT   |
| Traffic Vol, veh/h     | 355       | 18    | 94        | 1359   | 117       | 133    |
| Future Vol, veh/h      | 355       | 18    | 94        | 1359   | 117       | 133    |
| Conflicting Peds, #/hr | 0         | 0     | 0         | 0      | 0         | 0      |
| Sign Control           | Stop      | Stop  | Free      | Free   | Free      | Free   |
| RT Channelized         | Stop<br>- | None  | riee<br>- | None   | riee<br>- | None   |
| Storage Length         | 0         | NOTIE | -         | -      | -         | None - |
| Veh in Median Storage  |           |       |           | 0      | 0         |        |
|                        |           |       | -         |        | _         | -      |
| Grade, %               | 0         | - 02  | - 02      | 0      | 0         | - 02   |
| Peak Hour Factor       | 92        | 92    | 92        | 92     | 92        | 92     |
| Heavy Vehicles, %      | 2         | 2     | 2         | 2      | 2         | 2      |
| Mvmt Flow              | 386       | 20    | 102       | 1477   | 127       | 145    |
|                        |           |       |           |        |           |        |
| Major/Minor            | Minor2    |       | Major1    | N      | //ajor2   |        |
| Conflicting Flow All   | 1881      | 200   | 272       | 0      | -<br>-    | 0      |
| Stage 1                | 200       | 200   | 212       | -      |           | -      |
| Stage 2                | 1681      | _     | _         | _      | _         | _      |
| Critical Hdwy          | 6.42      | 6.22  | 4.12      | -      |           |        |
|                        | 5.42      | 0.22  | 4.12      |        |           |        |
| Critical Hdwy Stg 1    | 5.42      |       | _         | -      | -         | -      |
| Critical Hdwy Stg 2    |           | 2 240 | - 0.40    | -      | -         | -      |
| Follow-up Hdwy         |           | 3.318 |           | -      | -         | -      |
| Pot Cap-1 Maneuver     | ~ 78      | 841   | 1291      | -      | -         | -      |
| Stage 1                | 834       | -     | -         | -      | -         | -      |
| Stage 2                | ~ 166     | -     | -         | -      | -         | -      |
| Platoon blocked, %     |           |       |           | -      | -         | -      |
| Mov Cap-1 Maneuver     | ~ 44      | 841   | 1291      | -      | -         | -      |
| Mov Cap-2 Maneuver     | ~ 44      | -     | -         | -      | -         | -      |
| Stage 1                | 466       | -     | -         | -      | -         | -      |
| Stage 2                | ~ 166     | -     | -         | -      | -         | -      |
|                        |           |       |           |        |           |        |
| Annroach               | ED        |       | ND        |        | CD        |        |
| Approach               | EB        |       | NB        |        | SB        |        |
| HCM Control Delay, \$  |           |       | 0.5       |        | 0         |        |
| HCM LOS                | F         |       |           |        |           |        |
|                        |           |       |           |        |           |        |
| Minor Lane/Major Mvm   | nt        | NBL   | NBT       | EBLn1  | SBT       | SBR    |
| Capacity (veh/h)       |           | 1291  | -         | 46     |           |        |
| HCM Lane V/C Ratio     |           | 0.079 |           | 8.814  | _         | _      |
| HCM Control Delay (s)  |           | 8     |           | 3685.6 | _         |        |
| HCM Lane LOS           |           |       |           |        |           |        |
|                        | \         | A     | A         | 70 1   | -         | -      |
| HCM 95th %tile Q(veh)  | )         | 0.3   | -         | 48.1   | -         | -      |
| Notes                  |           |       |           |        |           |        |

+: Computation Not Defined

\$: Delay exceeds 300s

~: Volume exceeds capacity

\*: All major volume in platoon

| Intersection                          |        |       |        |        |          |        |
|---------------------------------------|--------|-------|--------|--------|----------|--------|
| Int Delay, s/veh                      | 11.1   |       |        |        |          |        |
| Movement                              | WBL    | WBR   | NBT    | NBR    | SBL      | SBT    |
| Lane Configurations                   | W      |       | 1>     |        |          | ન      |
| Traffic Vol. veh/h                    | 18     | 68    | 1680   | 34     | 23       | 232    |
| Future Vol, veh/h                     | 18     | 68    | 1680   | 34     | 23       | 232    |
| Conflicting Peds, #/hr                | 0      | 0     | 0      | 0      | 0        | 0      |
| Sign Control                          | Stop   | Stop  | Free   | Free   | Free     | Free   |
| RT Channelized                        | -      | None  | -      | None   | -        | None   |
| Storage Length                        | 0      | -     | _      | -      | _        | -      |
| Veh in Median Storage                 |        | _     | 0      | -      | -        | 0      |
| Grade, %                              | 0      | _     | 0      | _      | _        | 0      |
| Peak Hour Factor                      | 92     | 92    | 92     | 92     | 92       | 92     |
| Heavy Vehicles, %                     | 2      | 2     | 2      | 2      | 2        | 2      |
| Mvmt Flow                             | 20     | 74    | 1826   | 37     | 25       | 252    |
| INIVITIL FIOW                         | 20     | 74    | 1020   | 31     | 20       | 202    |
|                                       |        |       |        |        |          |        |
| Major/Minor N                         | Minor1 | N     | Major1 | ľ      | Major2   |        |
| Conflicting Flow All                  | 2147   | 1845  | 0      | 0      | 1863     | 0      |
| Stage 1                               | 1845   | -     | -      | -      | -        | -      |
| Stage 2                               | 302    | -     | -      | -      | -        | -      |
| Critical Hdwy                         | 6.42   | 6.22  | -      | -      | 4.12     | -      |
| Critical Hdwy Stg 1                   | 5.42   | -     | -      | -      | -        | -      |
| Critical Hdwy Stg 2                   | 5.42   | -     | -      | -      | -        | -      |
| Follow-up Hdwy                        | 3.518  | 3.318 | _      | -      | 2.218    | -      |
| Pot Cap-1 Maneuver                    | 53     | 93    | _      | -      | 324      | -      |
| Stage 1                               | 137    | -     | _      | _      | _        | _      |
| Stage 2                               | 750    | _     | _      | _      | _        | _      |
| Platoon blocked, %                    |        |       | _      | _      |          | _      |
| Mov Cap-1 Maneuver                    | 48     | 93    | _      | _      | 324      | _      |
| Mov Cap-2 Maneuver                    | 48     | -     | _      | _      | -        | _      |
| Stage 1                               | 137    | _     | _      | _      | _        | _      |
| Stage 2                               | 683    | _     | _      |        |          |        |
| Stage 2                               | 000    |       | _      |        | _        |        |
|                                       |        |       |        |        |          |        |
| Approach                              | WB     |       | NB     |        | SB       |        |
| HCM Control Delay, s                  | 259.8  |       | 0      |        | 1.5      |        |
| HCM LOS                               | F      |       |        |        |          |        |
|                                       |        |       |        |        |          |        |
| Minor Long /Marior Ma                 |        | NDT   | MDDV   | VDI 4  | ODI      | CDT    |
| Minor Lane/Major Mvm                  | ıt     | NBT   | NRKA   | VBLn1  | SBL      | SBT    |
| Capacity (veh/h)                      |        | -     | -      | 78     | 324      | -      |
| HCM Lane V/C Ratio                    |        | -     |        | 1.198  |          | -      |
| HCM Control Dolay (c)                 |        |       | -      | 259.8  | 17       | 0      |
| HCM Control Delay (s)                 |        |       |        |        | _        |        |
| HCM Lane LOS<br>HCM 95th %tile Q(veh) |        | -     | -      | F<br>7 | C<br>0.2 | A<br>- |

| Intersection           |           |   |          |         |        |        |
|------------------------|-----------|---|----------|---------|--------|--------|
| Int Delay, s/veh       | 28        |   |          |         |        |        |
| Movement               | WBL       | WBR   | NBT      | NBR     | SBL    | SBT    |
| Lane Configurations    | ¥         | ,,, <u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u> | \$       | , LOIK  | JDL    | 4      |
| Traffic Vol, veh/h     | 63        | 52  | 1543     | 205     | 25     | 192    |
| Future Vol, veh/h      | 63        | 52  | 1543     | 205     | 25     | 192    |
| Conflicting Peds, #/hr | 03        | 0   | 0        | 0       | 0      | 0      |
| Sign Control           | Stop      | Stop  | Free     | Free    | Free   | Free   |
| RT Channelized         | Stop<br>- |   | -        |         | -      |        |
| Storage Length         | 0         | -   | _        | -       | _      | -      |
| Veh in Median Storage  |           |   | 0        | _       | _      | 0      |
| Grade, %               | 0, # 0    | <u>-</u>                                      | 0        | _       | _      | 0      |
| Peak Hour Factor       | 92        | 92  | 92       | 92      | 92     | 92     |
|                        | 2         | 2   | 2        | 2       | 2      | 2      |
| Heavy Vehicles, %      |           |   |          |         |        |        |
| Mvmt Flow              | 68        | 57  | 1677     | 223     | 27     | 209    |
|                        |           |   |          |         |        |        |
| Major/Minor            | Minor1    | N   | Major1   | ı       | Major2 |        |
| Conflicting Flow All   | 2052      | 1789  | 0        | 0       | 1677   | 0      |
| Stage 1                | 1789      | -   | -        | -       | -      | -      |
| Stage 2                | 263       | <u>-</u>                                      | <u>-</u> | _       | _      | _      |
| Critical Hdwy          | 6.42      | 6.22  | _        | _       | 4.12   | _      |
| Critical Hdwy Stg 1    | 5.42      | - 0.22  | <u>-</u> | _       | 7.12   | _      |
| Critical Hdwy Stg 2    | 5.42      |   |          | _       | -      |        |
|                        |           | 3.318   | -        | -       | 2.218  | -      |
| Follow-up Hdwy         |           |   | -        |         |        | -      |
| Pot Cap-1 Maneuver     | ~ 61      | 101   | -        | -       | 382    | -      |
| Stage 1                | 147       | -   | -        | -       | -      | -      |
| Stage 2                | 781       | -   | -        | -       | -      | -      |
| Platoon blocked, %     |           |   | -        | -       |        | -      |
| Mov Cap-1 Maneuver     |           | 101   | -        | -       | 382    | -      |
| Mov Cap-2 Maneuver     |           | -   | -        | -       | -      | -      |
| Stage 1                | 147       | -   | -        | -       | -      | -      |
| Stage 2                | 719       | -   | -        | -       | -      | -      |
|                        |           |   |          |         |        |        |
| Annragah               | WD        |   | ND       |         | CD     |        |
| Approach               | WB        |   | NB       |         | SB     |        |
| HCM Control Delay, st  |           |   | 0        |         | 1.7    |        |
| HCM LOS                | F         |   |          |         |        |        |
|                        |           |   |          |         |        |        |
| Minor Lane/Major Mvr   | nt        | NBT   | NBRV     | VBLn1   | SBL    | SBT    |
| Capacity (veh/h)       |           | -   | _        | 70      | 382    | -      |
| HCM Lane V/C Ratio     |           | _   | _        | 1.786   |        | _      |
| HCM Control Delay (s   | )         | _   |          | 502.6   | 15.1   | 0      |
| HCM Lane LOS           | 1         | _   | -Ψ       | 502.0   | C      | A      |
| HCM 95th %tile Q(veh   | 1)        |   |          | 11.1    | 0.2    |        |
|                        | '/        |   |          | 11.1    | 0.2    |        |
| Notes                  |           |   |          |         |        |        |
| ~: Volume exceeds ca   | pacity    | \$: De  | lay exc  | eeds 30 | 00s    | +: Com |

|                         | -    | •     | 1     |
|-------------------------|------|-------|-------|
|                         |      |       |       |
| Lane Group              | EBT  | WBT   | NBL   |
| Lane Group Flow (vph)   | 142  | 388   | 1278  |
| v/c Ratio               | 0.25 | 1.09  | 1.19  |
| Control Delay           | 15.0 | 112.4 | 117.3 |
| Queue Delay             | 0.0  | 0.0   | 0.0   |
| Total Delay             | 15.0 | 112.4 | 117.3 |
| Queue Length 50th (ft)  | 33   | ~310  | ~1072 |
| Queue Length 95th (ft)  | 82   | #498  | #1335 |
| Internal Link Dist (ft) | 1044 | 3802  | 1526  |
| Turn Bay Length (ft)    |      |       |       |
| Base Capacity (vph)     | 573  | 355   | 1073  |
| Starvation Cap Reductn  | 0    | 0     | 0     |
| Spillback Cap Reductn   | 0    | 0     | 0     |
| Storage Cap Reductn     | 0    | 0     | 0     |
| Reduced v/c Ratio       | 0.25 | 1.09  | 1.19  |

### Intersection Summary

Volume exceeds capacity, queue is theoretically infinite.
 Queue shown is maximum after two cycles.

<sup># 95</sup>th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.

|                              | <b>→</b>              | *    | 1      | •     | 1          |                  |     |
|------------------------------|-----------------------|------|--------|-------|------------|------------------|-----|
| Movement                     | EBT                   | EBR  | WBL    | WBT   | NBL        | NBR              |     |
| Lane Configurations          | 1>                    |      |        | 4     | N/         |                  |     |
| Traffic Volume (vph)         | 50                    | 81   | 296    | 61    | 581        | 594              |     |
| Future Volume (vph)          | 50                    | 81   | 296    | 61    | 581        | 594              |     |
| Ideal Flow (vphpl)           | 1900                  | 1900 | 1900   | 1900  | 1900       | 1900             |     |
| Total Lost time (s)          | 4.5                   |      |        | 4.5   | 4.5        |                  |     |
| Lane Util. Factor            | 1.00                  |      |        | 1.00  | 1.00       |                  |     |
| Frt                          | 0.92                  |      |        | 1.00  | 0.93       |                  |     |
| Flt Protected                | 1.00                  |      |        | 0.96  | 0.98       |                  |     |
| Satd. Flow (prot)            | 1707                  |      |        | 1789  | 1694       |                  |     |
| Flt Permitted                | 1.00                  |      |        | 0.63  | 0.98       |                  |     |
| Satd. Flow (perm)            | 1707                  |      |        | 1168  | 1694       |                  |     |
| Peak-hour factor, PHF        | 0.92                  | 0.92 | 0.92   | 0.92  | 0.92       | 0.92             |     |
| Adj. Flow (vph)              | 54                    | 88   | 322    | 66    | 632        | 646              |     |
| RTOR Reduction (vph)         | 54                    | 0    | 0      | 0     | 34         | 0                |     |
| Lane Group Flow (vph)        | 88                    | 0    | 0      | 388   | 1244       | 0                |     |
| Turn Type                    | NA                    |      | Perm   | NA    | Prot       |                  |     |
| Protected Phases             | 2                     |      |        | 6     | 4          |                  |     |
| Permitted Phases             |                       |      | 6      |       |            |                  |     |
| Actuated Green, G (s)        | 33.5                  |      |        | 33.5  | 67.5       |                  |     |
| Effective Green, g (s)       | 33.5                  |      |        | 33.5  | 67.5       |                  |     |
| Actuated g/C Ratio           | 0.30                  |      |        | 0.30  | 0.61       |                  |     |
| Clearance Time (s)           | 4.5                   |      |        | 4.5   | 4.5        |                  |     |
| Vehicle Extension (s)        | 3.0                   |      |        | 3.0   | 3.0        |                  |     |
| Lane Grp Cap (vph)           | 519                   |      |        | 355   | 1039       |                  |     |
| v/s Ratio Prot               | 0.05                  |      |        |       | c0.73      |                  |     |
| v/s Ratio Perm               |                       |      |        | c0.33 |            |                  |     |
| v/c Ratio                    | 0.17                  |      |        | 1.09  | 1.20       |                  |     |
| Uniform Delay, d1            | 28.1                  |      |        | 38.2  | 21.2       |                  |     |
| Progression Factor           | 1.00                  |      |        | 1.00  | 1.00       |                  |     |
| Incremental Delay, d2        | 0.7                   |      |        | 75.1  | 98.4       |                  |     |
| Delay (s)                    | 28.8                  |      |        | 113.3 | 119.7      |                  |     |
| Level of Service             | С                     |      |        | F     | F          |                  |     |
| Approach Delay (s)           | 28.8                  |      |        | 113.3 | 119.7      |                  |     |
| Approach LOS                 | С                     |      |        | F     | F          |                  |     |
| Intersection Summary         |                       |      |        |       |            |                  |     |
| HCM 2000 Control Delay       |                       |      | 111.2  | H     | CM 2000    | Level of Service | F   |
| HCM 2000 Volume to Capa      | acity ratio           |      | 1.16   |       |            |                  |     |
| Actuated Cycle Length (s)    |                       |      | 110.0  | Sı    | um of lost | time (s)         | 9.0 |
| Intersection Capacity Utiliz | ation                 |      | 107.1% | IC    | U Level o  | f Service        | G   |
| Analysis Period (min)        | Analysis Period (min) |      |        |       |            |                  |     |

| Intersection           |            |          |        |       |          |       |
|------------------------|------------|----------|--------|-------|----------|-------|
| Int Delay, s/veh       | 3.9        |          |        |       |          |       |
| Movement               | EBL        | EBT      | WBT    | WBR   | SBL      | SBR   |
| Lane Configurations    | LDL        | 4        | 1₃     | TIDIT | <b>Y</b> | ODIN  |
| Traffic Vol, veh/h     | 273        | 371      | 214    | 13    | 2        | 143   |
| Future Vol, veh/h      | 273        | 371      | 214    | 13    | 2        | 143   |
| Conflicting Peds, #/hr | 0          | 0        | 0      | 0     | 0        | 0     |
| Sign Control           | Free       | Free     | Free   | Free  | Stop     | Stop  |
| RT Channelized         | -          |          | -      | None  | -        |       |
| Storage Length         | _          | -        | _      | -     | 0        | -     |
| Veh in Median Storage  | e # -      | 0        | 0      | _     | 0        | _     |
| Grade, %               | J, 11<br>_ | 0        | 0      | _     | 0        | _     |
| Peak Hour Factor       | 92         | 92       | 92     | 92    | 92       | 92    |
| Heavy Vehicles, %      | 2          | 2        | 2      | 2     | 2        | 2     |
| Mymt Flow              | 297        | 403      | 233    | 14    | 2        | 155   |
| WWITH FIOW             | 231        | 403      | 200    | 14    |          | 155   |
|                        |            |          |        |       |          |       |
| Major/Minor            | Major1     | <u> </u> | Major2 |       | Minor2   |       |
| Conflicting Flow All   | 247        | 0        | -      | 0     | 1237     | 240   |
| Stage 1                | -          | -        | -      | -     | 240      | -     |
| Stage 2                | -          | -        | -      | -     | 997      | -     |
| Critical Hdwy          | 4.12       | -        | -      | -     | 6.42     | 6.22  |
| Critical Hdwy Stg 1    | -          | -        | -      | _     | 5.42     | -     |
| Critical Hdwy Stg 2    | -          | -        | -      | _     | 5.42     | _     |
| Follow-up Hdwy         | 2.218      | -        | -      | _     | 3.518    | 3.318 |
| Pot Cap-1 Maneuver     | 1319       | _        | _      | -     | 194      | 799   |
| Stage 1                | -          | _        | _      | _     | 800      | -     |
| Stage 2                | _          | _        | _      | _     | 357      | -     |
| Platoon blocked, %     |            | _        | _      | _     | 301      |       |
| Mov Cap-1 Maneuver     | 1319       |          |        | _     | 138      | 799   |
| Mov Cap-1 Maneuver     | -          |          | _      | _     | 138      | 199   |
| Stage 1                |            | <u>-</u> | -      |       | 568      | -     |
|                        | -          | -        | -      | -     |          |       |
| Stage 2                | _          | -        | -      | -     | 357      | -     |
|                        |            |          |        |       |          |       |
| Approach               | EB         |          | WB     |       | SB       |       |
| HCM Control Delay, s   | 3.6        |          | 0      |       | 11.1     |       |
| HCM LOS                |            |          |        |       | В        |       |
|                        |            |          |        |       |          |       |
|                        |            | EDI      |        | 14/57 | 14/55    | ODL 4 |
| Minor Lane/Major Mvn   | nt         | EBL      | EBT    | WBT   | WBR:     |       |
| Capacity (veh/h)       |            | 1319     | -      | -     | -        | 749   |
| HCM Lane V/C Ratio     |            | 0.225    | -      | -     | -        | 0.21  |
| HCM Control Delay (s)  | )          | 8.5      | 0      | -     | -        |       |
| HCM Lane LOS           |            | Α        | Α      | -     | -        | В     |
| HCM 95th %tile Q(veh   | )          | 0.9      | -      | -     | -        | 8.0   |
|                        |            |          |        |       |          |       |

| Intersection            |        |       |        |       |              |      |
|-------------------------|--------|-------|--------|-------|--------------|------|
| Int Delay, s/veh        | 13.9   |       |        |       |              |      |
|                         |        | EDD   | NDI    | NDT   | CDT          | CDD  |
| Movement Configurations | EBL    | EBR   | NBL    | NBT   | SBT          | SBR  |
| Lane Configurations     | 142    | 40    | 0.4    | 4     | 727          | 204  |
| Traffic Vol, veh/h      | 143    | 49    | 24     | 170   | 727          | 321  |
| Future Vol, veh/h       | 143    | 49    | 24     | 170   | 727          | 321  |
| Conflicting Peds, #/hr  | 0      | 0     | 0      | 0     | 0            | 0    |
| Sign Control            | Stop   | Stop  | Free   | Free  | Free         | Free |
| RT Channelized          | -      | None  | -      | None  | -            |      |
| Storage Length          | 0      | -     | -      | -     | -            | -    |
| Veh in Median Storage   |        | -     | -      | 0     | 0            | -    |
| Grade, %                | 0      | -     | -      | 0     | 0            | -    |
| Peak Hour Factor        | 92     | 92    | 92     | 92    | 92           | 92   |
| Heavy Vehicles, %       | 2      | 2     | 2      | 2     | 2            | 2    |
| Mvmt Flow               | 155    | 53    | 26     | 185   | 790          | 349  |
|                         |        |       |        |       |              |      |
| Major/Minor             | Minor2 | ı     | Major1 | N     | Major2       |      |
| Conflicting Flow All    | 1202   | 965   | 1139   | 0     | viajuiz<br>- | 0    |
|                         | 965    |       |        |       |              |      |
| Stage 1                 | 237    | -     | -      | -     | -            | -    |
| Stage 2                 |        | 6 22  | 1.10   | -     | -            | -    |
| Critical Hdwy           | 6.42   | 6.22  | 4.12   | -     | -            | -    |
| Critical Hdwy Stg 1     | 5.42   | -     | -      | -     | -            | -    |
| Critical Hdwy Stg 2     | 5.42   | -     | -      | -     | -            | -    |
| Follow-up Hdwy          | 3.518  |       | 2.218  | -     | -            | -    |
| Pot Cap-1 Maneuver      | 204    | 309   | 613    | -     | -            | -    |
| Stage 1                 | 370    | -     | -      | -     | -            | -    |
| Stage 2                 | 802    | -     | -      | -     | -            | -    |
| Platoon blocked, %      |        |       |        | -     | -            | -    |
| Mov Cap-1 Maneuver      | 194    | 309   | 613    | -     | -            | -    |
| Mov Cap-2 Maneuver      | 194    | -     | -      | -     | -            | -    |
| Stage 1                 | 353    | -     | -      | -     | -            | -    |
| Stage 2                 | 802    | -     | -      | -     | -            | _    |
|                         |        |       |        |       |              |      |
| ۸                       |        |       |        |       | -            |      |
| Approach                | EB     |       | NB     |       | SB           |      |
| HCM Control Delay, s    |        |       | 1.4    |       | 0            |      |
| HCM LOS                 | F      |       |        |       |              |      |
|                         |        |       |        |       |              |      |
| Minor Lane/Major Mvm    | nt     | NBL   | NRT    | EBLn1 | SBT          | SBR  |
|                         | ıt     |       |        |       | וטט          | JUC  |
| Capacity (veh/h)        |        | 613   | -      |       | -            | -    |
| HCM Control Doloy (a)   |        | 0.043 |        | 0.975 | -            | -    |
| HCM Control Delay (s)   |        | 11.1  |        | 102.3 | -            | -    |
| HCM Lane LOS            |        | В     | Α      | F     | -            | -    |
| HCM 95th %tile Q(veh    | )      | 0.1   | -      | 8.5   | -            | -    |
|                         |        |       |        |       |              |      |

| Intersection           |            |       |        |       |          |      |
|------------------------|------------|-------|--------|-------|----------|------|
| Int Delay, s/veh       | 2.1        |       |        |       |          |      |
|                        |            | 14/55 | N.D.   | NE    | 00/      | 005  |
| Movement               | WBL        | WBR   | NBT    | NBR   | SBL      | SBT  |
| Lane Configurations    | N.         |       | 1€     |       |          | 4    |
| Traffic Vol, veh/h     | 34         | 37    | 277    | 36    | 62       | 1014 |
| Future Vol, veh/h      | 34         | 37    | 277    | 36    | 62       | 1014 |
| Conflicting Peds, #/hr | 0          | 0     | 0      | 0     | 0        | 0    |
| Sign Control           | Stop       | Stop  | Free   | Free  | Free     | Free |
| RT Channelized         | -          | None  | -      | None  | -        | None |
| Storage Length         | 0          | -     | -      | -     | -        | -    |
| Veh in Median Storage  | , # 0      | -     | 0      | -     | -        | 0    |
| Grade, %               | 0          | -     | 0      | -     | -        | 0    |
| Peak Hour Factor       | 92         | 92    | 92     | 92    | 92       | 92   |
| Heavy Vehicles, %      | 2          | 2     | 2      | 2     | 2        | 2    |
| Mvmt Flow              | 37         | 40    | 301    | 39    | 67       | 1102 |
|                        |            |       |        |       |          |      |
| Major/Mina             | Min s :: 4 |       | 1-1-1  |       | Mais = O |      |
|                        | Minor1     |       | Major1 |       | Major2   |      |
| Conflicting Flow All   | 1557       | 321   | 0      | 0     | 340      | 0    |
| Stage 1                | 321        | -     | -      | -     | -        | -    |
| Stage 2                | 1236       | -     | -      | -     | -        | -    |
| Critical Hdwy          | 6.42       | 6.22  | -      | -     | 4.12     | -    |
| Critical Hdwy Stg 1    | 5.42       | -     | -      | -     | -        | -    |
| Critical Hdwy Stg 2    | 5.42       | -     | -      | -     | -        | -    |
| Follow-up Hdwy         | 3.518      | 3.318 | -      | -     | 2.218    | -    |
| Pot Cap-1 Maneuver     | 124        | 720   | -      | -     | 1219     | -    |
| Stage 1                | 735        | -     | -      | -     | -        | -    |
| Stage 2                | 274        | -     | -      | -     | -        | -    |
| Platoon blocked, %     |            |       | -      | -     |          | -    |
| Mov Cap-1 Maneuver     | 106        | 720   | -      | -     | 1219     | -    |
| Mov Cap-2 Maneuver     | 106        | -     | -      | -     | -        | -    |
| Stage 1                | 735        | _     | -      | _     | -        | -    |
| Stage 2                | 235        | -     | _      | _     | _        | _    |
| g <b>v -</b>           |            |       |        |       |          |      |
|                        |            |       |        |       |          |      |
| Approach               | WB         |       | NB     |       | SB       |      |
| HCM Control Delay, s   | 36.1       |       | 0      |       | 0.5      |      |
| HCM LOS                | Е          |       |        |       |          |      |
|                        |            |       |        |       |          |      |
| Minor Lane/Major Mvm   | ıt.        | NBT   | NRDV   | VBLn1 | SBL      | SBT  |
|                        | IC .       | INDT  |        |       |          |      |
| Capacity (veh/h)       |            | -     | -      |       | 1219     | -    |
| HCM Lane V/C Ratio     |            | -     |        | 0.404 |          | -    |
| HCM Control Delay (s)  |            | -     | -      | 36.1  | 8.1      | 0    |
| HCM Lane LOS           |            | -     | -      | E     | A        | Α    |
| HCM 95th %tile Q(veh)  |            | -     | -      | 1.8   | 0.2      | -    |

| Intersection           |         |        |         |            |        |        |
|------------------------|---------|--------|---------|------------|--------|--------|
| Int Delay, s/veh       | 48.9    |        |         |            |        |        |
| Movement               | WBL     | WBR    | NBT     | NBR        | SBL    | SBT    |
| Lane Configurations    | ¥       | TIDIC  | 13      | HOIL       | ODL    | 4      |
| Traffic Vol, veh/h     | 206     | 32     | 233     | 81         | 46     | 870    |
| Future Vol, veh/h      | 206     | 32     | 233     | 81         | 46     | 870    |
| Conflicting Peds, #/hr | 0       | 0      | 0       | 0          | 0      | 0      |
| Sign Control           | Stop    | Stop   | Free    | Free       | Free   | Free   |
| RT Channelized         | -<br>-  |        | -       |            | -      |        |
| Storage Length         | 0       | -      | _       | -          | _      | -      |
| Veh in Median Storag   |         | _      | 0       | _          | _      | 0      |
| Grade, %               | 0       | -      | 0       | -          | -      | 0      |
| Peak Hour Factor       | 92      | 92     | 92      | 92         | 92     | 92     |
| Heavy Vehicles, %      | 2       | 2      | 2       | 2          | 2      | 2      |
| Mvmt Flow              | 224     | 35     | 253     | 88         | 50     | 946    |
| WWW.CT IOW             |         | 00     | 200     | 00         | 00     | 010    |
|                        |         |        |         | -          |        |        |
| Major/Minor            | Minor1  |        | Major1  |            | Major2 |        |
| Conflicting Flow All   | 1343    | 297    | 0       | 0          | 253    | 0      |
| Stage 1                | 297     | -      | -       | -          | -      | -      |
| Stage 2                | 1046    | -      | -       | -          | -      | -      |
| Critical Hdwy          | 6.42    | 6.22   | -       | -          | 4.12   | -      |
| Critical Hdwy Stg 1    | 5.42    | -      | -       | -          | -      | -      |
| Critical Hdwy Stg 2    | 5.42    | -      | -       | -          | -      | -      |
| Follow-up Hdwy         | 3.518   | 3.318  | -       | -          | 2.218  | -      |
| Pot Cap-1 Maneuver     | ~ 168   | 742    | -       | -          | 1312   | -      |
| Stage 1                | 754     | -      | -       | -          | -      | -      |
| Stage 2                | 338     | -      | -       | -          | -      | -      |
| Platoon blocked, %     |         |        | -       | -          |        | -      |
| Mov Cap-1 Maneuver     | ~ 155   | 742    | -       | -          | 1312   | -      |
| Mov Cap-2 Maneuver     |         | -      | -       | -          | -      | -      |
| Stage 1                | 754     | -      | -       | -          | -      | -      |
| Stage 2                | 311     | -      | -       | _          | _      | _      |
|                        |         |        |         |            |        |        |
| A I-                   | 14/5    |        | ND      |            | 0.0    |        |
| Approach               | WB      |        | NB      |            | SB     |        |
| HCM Control Delay, s   |         |        | 0       |            | 0.4    |        |
| HCM LOS                | F       |        |         |            |        |        |
|                        |         |        |         |            |        |        |
| Minor Lane/Major Mvr   | nt      | NBT    | NBRV    | VBLn1      | SBL    | SBT    |
| Capacity (veh/h)       |         | _      |         | 173        | 1312   | _      |
| HCM Lane V/C Ratio     |         | _      | _       | 1.495      |        | _      |
| HCM Control Delay (s   |         | _      |         | 299.8      | 7.9    | 0      |
| HCM Lane LOS           | 7       | _      | _       | 233.0<br>F | Α.5    | A      |
| HCM 95th %tile Q(veh   | 1)      | -      | _       | 16.6       | 0.1    | -      |
|                        | .,      |        |         | 10.0       | 0.1    |        |
| Notes                  |         |        |         |            |        |        |
| ~: Volume exceeds ca   | apacity | \$: De | lay exc | eeds 30    | 00s    | +: Com |

|                         | -    | ←     | 1     |
|-------------------------|------|-------|-------|
| Lane Group              | EBT  | WBT   | NBL   |
| Lane Group Flow (vph)   | 465  | 1081  | 407   |
| v/c Ratio               | 0.34 | 1.75  | 1.25  |
| Control Delay           | 1.4  | 362.5 | 176.9 |
| Queue Delay             | 0.0  | 0.0   | 0.0   |
| Total Delay             | 1.4  | 362.5 | 176.9 |
| Queue Length 50th (ft)  | 12   | ~890  | ~420  |
| Queue Length 95th (ft)  | 37   | #1156 | #633  |
| Internal Link Dist (ft) | 1044 | 3802  | 1526  |
| Turn Bay Length (ft)    |      |       |       |
| Base Capacity (vph)     | 1356 | 619   | 325   |
| Starvation Cap Reductn  | 0    | 0     | 0     |
| Spillback Cap Reductn   | 0    | 0     | 0     |
| Storage Cap Reductn     | 0    | 0     | 0     |
| Reduced v/c Ratio       | 0.34 | 1.75  | 1.25  |

### Intersection Summary

Volume exceeds capacity, queue is theoretically infinite.
 Queue shown is maximum after two cycles.

<sup># 95</sup>th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.

|                                   | -           | *    | 1      | •     | 1          |                  |     |  |
|-----------------------------------|-------------|------|--------|-------|------------|------------------|-----|--|
| Movement                          | EBT         | EBR  | WBL    | WBT   | NBL        | NBR              |     |  |
| Lane Configurations               | 1>          |      |        | र्स   | Y          |                  |     |  |
| Traffic Volume (vph)              | 58          | 370  | 947    | 48    | 136        | 238              |     |  |
| Future Volume (vph)               | 58          | 370  | 947    | 48    | 136        | 238              |     |  |
| Ideal Flow (vphpl)                | 1900        | 1900 | 1900   | 1900  | 1900       | 1900             |     |  |
| Total Lost time (s)               | 4.5         |      |        | 4.5   | 4.5        |                  |     |  |
| Lane Util. Factor                 | 1.00        |      |        | 1.00  | 1.00       |                  |     |  |
| Frt                               | 0.88        |      |        | 1.00  | 0.91       |                  |     |  |
| Flt Protected                     | 1.00        |      |        | 0.95  | 0.98       |                  |     |  |
| Satd. Flow (prot)                 | 1645        |      |        | 1778  | 1672       |                  |     |  |
| FIt Permitted                     | 1.00        |      |        | 0.43  | 0.98       |                  |     |  |
| Satd. Flow (perm)                 | 1645        |      |        | 807   | 1672       |                  |     |  |
| Peak-hour factor, PHF             | 0.92        | 0.92 | 0.92   | 0.92  | 0.92       | 0.92             |     |  |
| Adj. Flow (vph)                   | 63          | 402  | 1029   | 52    | 148        | 259              |     |  |
| RTOR Reduction (vph)              | 93          | 0    | 0      | 0     | 45         | 0                |     |  |
| Lane Group Flow (vph)             | 372         | 0    | 0      | 1081  | 362        | 0                |     |  |
| Turn Type                         | NA          |      | Perm   | NA    | Prot       |                  |     |  |
| Protected Phases                  | 2           |      |        | 6     | 8          |                  |     |  |
| Permitted Phases                  | _           |      | 6      | •     |            |                  |     |  |
| Actuated Green, G (s)             | 107.5       |      | _      | 107.5 | 23.5       |                  |     |  |
| Effective Green, g (s)            | 107.5       |      |        | 107.5 | 23.5       |                  |     |  |
| Actuated g/C Ratio                | 0.77        |      |        | 0.77  | 0.17       |                  |     |  |
| Clearance Time (s)                | 4.5         |      |        | 4.5   | 4.5        |                  |     |  |
| Vehicle Extension (s)             | 3.0         |      |        | 3.0   | 3.0        |                  |     |  |
| Lane Grp Cap (vph)                | 1263        |      |        | 619   | 280        |                  |     |  |
| v/s Ratio Prot                    | 0.23        |      |        | 0.0   | c0.22      |                  |     |  |
| v/s Ratio Perm                    |             |      |        | c1.34 |            |                  |     |  |
| v/c Ratio                         | 0.29        |      |        | 1.75  | 1.29       |                  |     |  |
| Uniform Delay, d1                 | 4.9         |      |        | 16.2  | 58.2       |                  |     |  |
| Progression Factor                | 1.00        |      |        | 1.00  | 1.00       |                  |     |  |
| Incremental Delay, d2             | 0.1         |      |        | 342.5 | 155.9      |                  |     |  |
| Delay (s)                         | 5.0         |      |        | 358.8 | 214.1      |                  |     |  |
| Level of Service                  | Α           |      |        | F     | F          |                  |     |  |
| Approach Delay (s)                | 5.0         |      |        | 358.8 | 214.1      |                  |     |  |
| Approach LOS                      | Α           |      |        | F     | F          |                  |     |  |
| Intersection Summary              |             |      |        |       |            |                  |     |  |
| HCM 2000 Control Delay            |             |      | 244.4  | Н     | CM 2000    | Level of Service | F   |  |
| HCM 2000 Volume to Capa           | acity ratio |      | 1.66   |       |            |                  |     |  |
| Actuated Cycle Length (s)         | ,           |      | 140.0  | S     | um of lost | time (s)         | 9.0 |  |
| Intersection Capacity Utilization |             |      | 114.3% |       | CU Level o |                  | Н   |  |
| Analysis Period (min)             |             |      | 15     |       |            |                  |     |  |

c Critical Lane Group

| Intersection                  |         |          |           |              |           |           |                      |                                |
|-------------------------------|---------|----------|-----------|--------------|-----------|-----------|----------------------|--------------------------------|
| Int Delay, s/veh              | 43.8    |          |           |              |           |           |                      |                                |
| Movement                      | EBL     | EBT      | WBT       | WBR          | SBL       | SBR       |                      |                                |
| ane Configurations            |         | 4        | 1         |              | N.        |           |                      |                                |
| affic Vol, veh/h              | 110     | 186      | 332       | 13           | 6         | 663       |                      |                                |
| ure Vol, veh/h                | 110     | 186      | 332       | 13           | 6         | 663       |                      |                                |
| nflicting Peds, #/hr          | 0       | 0        | 0         | 0            | 0         | 0         |                      |                                |
| gn Control                    | Free    | Free     | Free      | Free         | Stop      | Stop      |                      |                                |
| Γ Channelized                 | -       | None     | -         | None         | -         | None      |                      |                                |
| orage Length                  | -       | -        | -         | -            | 0         | -         |                      |                                |
| h in Median Storag            | e,# -   | 0        | 0         | -            | 0         | -         |                      |                                |
| ade, %                        | -       | 0        | 0         | -            | 0         | -         |                      |                                |
| eak Hour Factor               | 92      | 92       | 92        | 92           | 92        | 92        |                      |                                |
| avy Vehicles, %               | 2       | 2        | 2         | 2            | 2         | 2         |                      |                                |
| mt Flow                       | 120     | 202      | 361       | 14           | 7         | 721       |                      |                                |
|                               |         |          |           |              |           |           |                      |                                |
| ajor/Minor                    | Major1  |          | Major2    | N            | /linor2   |           |                      |                                |
| nflicting Flow All            | 375     | 0        | - viajoiz | 0            | 810       | 368       |                      |                                |
| Stage 1                       | -       | -        | _         | -            | 368       | -         |                      |                                |
| Stage 2                       | _       | _        | _         | _            | 442       | _         |                      |                                |
| tical Hdwy                    | 4.12    | _        | _         | _            | 6.42      | 6.22      |                      |                                |
| tical Hdwy Stg 1              | 7.12    | _        | _         | _            | 5.42      | -         |                      |                                |
| tical Hdwy Stg 2              | _       | _        | _         | _            | 5.42      | _         |                      |                                |
| llow-up Hdwy                  | 2.218   | _        | _         |              | 3.518     |           |                      |                                |
| t Cap-1 Maneuver              | 1183    | _        | _         | _            |           | ~ 677     |                      |                                |
| Stage 1                       | -       | _        | _         | _            | 700       | -         |                      |                                |
| Stage 2                       | _       | _        | _         | _            | 648       | _         |                      |                                |
| atoon blocked, %              |         | _        | -         | _            |           |           |                      |                                |
| ov Cap-1 Maneuver             | 1183    | _        | -         | _            | 309       | ~ 677     |                      |                                |
| ov Cap-2 Maneuver             |         | -        | -         | -            | 309       | -         |                      |                                |
| Stage 1                       | -       | -        | -         | -            | 620       | -         |                      |                                |
| Stage 2                       | -       | -        | -         | -            | 648       | _         |                      |                                |
|                               |         |          |           |              |           |           |                      |                                |
| proach                        | EB      |          | WB        |              | SB        |           |                      |                                |
|                               |         |          | 0         |              | 84.3      |           |                      |                                |
| CM Control Delay, s<br>CM LOS | J. 1    |          | U         |              | 04.3<br>F |           |                      |                                |
| JIVI LUG                      |         |          |           |              | ٢         |           |                      |                                |
| inor Lane/Major Mvr           | mt      | EBL      | EBT       | WBT          | WRR       | SBLn1     |                      |                                |
| apacity (veh/h)               | TIT.    | 1183     | LDI       | VVDI         | VVDIX.    | 670       |                      |                                |
| CM Lane V/C Ratio             |         | 0.101    | -         | -            | -         | 1.085     |                      |                                |
| CM Control Delay (s           | .)      | 8.4      | 0         | -            |           | 84.3      |                      |                                |
| CM Lane LOS                   | 9)      | 0.4<br>A | A         | -            | -<br>-    | 04.3<br>F |                      |                                |
| CM 95th %tile Q(veh           | n)      | 0.3      | A         | <del>-</del> |           | 20.5      |                      |                                |
| `                             | 1)      | 0.3      | _         | _            | _         | 20.5      |                      |                                |
| otes                          |         |          |           |              |           |           |                      |                                |
| Volume exceeds ca             | apacity | \$: De   | elay exc  | eeds 30      | )0s       | +: Comp   | outation Not Defined | *: All major volume in platoon |
|                               |         |          |           |              |           |           |                      |                                |

## BACKGROUND CONDITIONS CAPACITY ANALYSES



| Intersection           |         |        |          |         |         |         |                      |                                |
|------------------------|---------|--------|----------|---------|---------|---------|----------------------|--------------------------------|
| Int Delay, s/veh       | 1909.9  |        |          |         |         |         |                      |                                |
| Movement               | EBL     | EBR    | NBL      | NBT     | SBT     | SBR     |                      |                                |
| Lane Configurations    | W       |        |          | 4       | 1       |         |                      |                                |
| Traffic Vol, veh/h     | 517     | 48     | 144      | 1906    | 164     | 198     |                      |                                |
| Future Vol, veh/h      | 517     | 48     | 144      | 1906    | 164     | 198     |                      |                                |
| Conflicting Peds, #/hr |         | 0      | 0        | 0       | 0       | 0       |                      |                                |
| Sign Control           | Stop    | Stop   | Free     | Free    | Free    | Free    |                      |                                |
| RT Channelized         | -       | None   | -        | None    | -       | None    |                      |                                |
| Storage Length         | 0       | -      | -        | -       | -       | -       |                      |                                |
| Veh in Median Storag   | e,# 0   | -      | -        | 0       | 0       | -       |                      |                                |
| Grade, %               | 0       | -      | -        | 0       | 0       | -       |                      |                                |
| Peak Hour Factor       | 92      | 92     | 92       | 92      | 92      | 92      |                      |                                |
| Heavy Vehicles, %      | 2       | 2      | 2        | 2       | 2       | 2       |                      |                                |
| Mvmt Flow              | 562     | 52     | 157      | 2072    | 178     | 215     |                      |                                |
|                        |         |        |          |         |         |         |                      |                                |
| Major/Minor            | Minor2  | 1      | Major1   | N       | //ajor2 |         |                      |                                |
| Conflicting Flow All   | 2672    | 286    | 393      | 0       |         | 0       |                      |                                |
| Stage 1                | 286     | -      | -        | -       | -       | -       |                      |                                |
| Stage 2                | 2386    | -      | _        | -       | -       | -       |                      |                                |
| Critical Hdwy          | 6.42    | 6.22   | 4.12     | -       | -       | -       |                      |                                |
| Critical Hdwy Stg 1    | 5.42    | -      | -        | -       | -       | -       |                      |                                |
| Critical Hdwy Stg 2    | 5.42    | -      | -        | -       | -       | -       |                      |                                |
| Follow-up Hdwy         | 3.518   | 3.318  | 2.218    | -       | -       | -       |                      |                                |
| Pot Cap-1 Maneuver     | ~ 25    | 753    | 1166     | -       | -       | -       |                      |                                |
| Stage 1                | 763     | -      | -        | -       | -       | -       |                      |                                |
| Stage 2                | ~ 73    | -      | -        | -       | -       | -       |                      |                                |
| Platoon blocked, %     |         |        |          | -       | -       | -       |                      |                                |
| Mov Cap-1 Maneuver     |         | 753    | 1166     | -       | -       | -       |                      |                                |
| Mov Cap-2 Maneuver     |         | -      | -        | -       | -       | -       |                      |                                |
| Stage 1                | 763     | -      | -        | -       | -       | -       |                      |                                |
| Stage 2                | ~ 73    | -      | -        | -       | -       | -       |                      |                                |
|                        |         |        |          |         |         |         |                      |                                |
| Approach               | EB      |        | NB       |         | SB      |         |                      |                                |
| HCM Control Delay\$s   | 10061.4 |        | 0.6      |         | 0       |         |                      |                                |
| HCM LOS                | F       |        |          |         |         |         |                      |                                |
|                        |         |        |          |         |         |         |                      |                                |
| Minor Lane/Major Mvr   | mt      | NBL    | NBT      | EBLn1   | SBT     | SBR     |                      |                                |
| Capacity (veh/h)       |         | 1166   | -        | 27      | _       | -       |                      |                                |
| HCM Lane V/C Ratio     |         | 0.134  | - 2      | 22.746  | -       | -       |                      |                                |
| HCM Control Delay (s   | s)      | 8.6    |          | 0061.4  | -       | -       |                      |                                |
| HCM Lane LOS           | ,       | A      | A        | F       | -       | -       |                      |                                |
| HCM 95th %tile Q(veh   | ٦)      | 0.5    | -        | 76.4    | -       | -       |                      |                                |
| Notes                  |         |        |          |         |         |         |                      |                                |
|                        |         |        |          |         |         |         |                      |                                |
| ~: Volume exceeds ca   | anacity | \$: De | elav exc | eeds 30 | )0s     | +: Comi | outation Not Defined | *: All major volume in platoon |

| tersection               |        |        |         |                      |        |         |                      |                               |
|--------------------------|--------|--------|---------|----------------------|--------|---------|----------------------|-------------------------------|
| nt Delay, s/veh          | 119.8  |        |         |                      |        |         |                      |                               |
| Novement                 | WBL    | WBR    | NBT     | NBR                  | SBL    | SBT     |                      |                               |
| ane Configurations       | N.     |        | 1       |                      |        | स       |                      |                               |
| raffic Vol, veh/h        | 29     | 95     | 2367    | 56                   | 32     | 332     |                      |                               |
| ture Vol, veh/h          | 29     | 95     | 2367    | 56                   | 32     | 332     |                      |                               |
| onflicting Peds, #/hr    | 0      | 0      | 0       | 0                    | 0      | 0       |                      |                               |
| gn Control               | Stop   | Stop   | Free    | Free                 | Free   | Free    |                      |                               |
| Γ Channelized            | -      | None   | -       | None                 | -      | None    |                      |                               |
| orage Length             | 0      | -      | -       | -                    | -      | -       |                      |                               |
| eh in Median Storage     | e, # 0 | -      | 0       | -                    | -      | 0       |                      |                               |
| rade, %                  | 0      | -      | 0       | -                    | -      | •       |                      |                               |
| eak Hour Factor          | 92     | 92     | 92      | 92                   | 92     |         |                      |                               |
| eavy Vehicles, %         | 2      | 2      | 2       | 2                    | 2      |         |                      |                               |
| mt Flow                  | 32     | 103    | 2573    | 61                   | 35     | 361     |                      |                               |
|                          |        |        |         |                      |        |         |                      |                               |
| jor/Minor                | Minor1 |        | Major1  | ı                    | Major2 |         |                      |                               |
| nflicting Flow All       | 3035   | 2604   | 0       | 0                    | 2634   | 0       |                      |                               |
| Stage 1                  | 2604   | -      | -       | -                    | -      | -       |                      |                               |
| Stage 2                  | 431    | -      | -       | -                    | -      | -       |                      |                               |
| tical Hdwy               | 6.42   | 6.22   | -       | -                    | 4.12   | -       |                      |                               |
| tical Hdwy Stg 1         | 5.42   | -      | -       | -                    | -      | -       |                      |                               |
| tical Hdwy Stg 2         | 5.42   | -      | -       | -                    | -      | -       |                      |                               |
| low-up Hdwy              | 3.518  |        | -       | -                    | 2.218  | -       |                      |                               |
| t Cap-1 Maneuver         | ~ 14   | ~ 32   | -       | -                    | 161    | -       |                      |                               |
| Stage 1                  | 56     | -      | -       | -                    | -      | -       |                      |                               |
| Stage 2                  | 655    | -      | -       | -                    | -      | -       |                      |                               |
| atoon blocked, %         |        |        | -       | -                    |        | -       |                      |                               |
| ov Cap-1 Maneuver        | ~ 10   | ~ 32   | -       | -                    | 161    | -       |                      |                               |
| ov Cap-2 Maneuver        | ~ 10   | -      | -       | -                    | -      | -       |                      |                               |
| Stage 1                  | 56     | -      | -       | -                    | -      |         |                      |                               |
| Stage 2                  | 477    | -      | -       | -                    | -      | -       |                      |                               |
|                          |        |        |         |                      |        |         |                      |                               |
| proach                   | WB     |        | NB      |                      | SB     |         |                      |                               |
| CM Control Delay, \$     | 2803.1 |        | 0       |                      | 2.9    |         |                      |                               |
| CM LOS                   | F      |        |         |                      |        |         |                      |                               |
|                          |        |        |         |                      |        |         |                      |                               |
| nor Lane/Major Mvn       | nt     | NBT    | NBRV    | VBLn1                | SBL    | SBT     |                      |                               |
| apacity (veh/h)          |        | -      | -       | 21                   | 161    | -       |                      |                               |
| M Lane V/C Ratio         |        | -      | -       | 6.418                | 0.216  | -       |                      |                               |
| CM Control Delay (s)     | )      | -      |         | 2803.1               | 33.4   | 0       |                      |                               |
| CM Lane LOS              |        | -      | -       | F                    | D      | Α       |                      |                               |
| CM 95th %tile Q(veh      | )      | -      | -       | 17.2                 | 0.8    | -       |                      |                               |
| otes                     |        |        |         |                      |        |         |                      |                               |
| les<br>√olume exceeds ca | nacity | \$: Do | lav ovo | eeds 30              | ηηe    | +· Com  | outation Not Defined | *: All major volume in platoo |
| volume exceeds ca        | pacity | ψ. De  | ay ext  | <del>.cc</del> us 3( | 003    | ·. Comp | diation Not Delined  | . All major volume in platoo  |

| Intersection          |        |        |         |         |        |        |                        |                                |
|-----------------------|--------|--------|---------|---------|--------|--------|------------------------|--------------------------------|
| nt Delay, s/veh       | 236.1  |        |         |         |        |        |                        |                                |
| lovement              | WBL    | WBR    | NBT     | NBR     | SBL    | SBT    |                        |                                |
| ane Configurations    | W      |        | 1       |         |        | र्स    |                        |                                |
| raffic Vol, veh/h     | 92     | 73     | 2167    | 296     | 35     | 272    |                        |                                |
| uture Vol, veh/h      | 92     | 73     | 2167    | 296     | 35     | 272    |                        |                                |
| onflicting Peds, #/hr | 0      | 0      | 0       | 0       | 0      | 0      |                        |                                |
| ign Control           | Stop   | Stop   | Free    | Free    | Free   | Free   |                        |                                |
| T Channelized         | -      | None   | -       | Yield   | -      | None   |                        |                                |
| torage Length         | 0      | -      | -       | -       | -      | -      |                        |                                |
| eh in Median Storage  | e,# 0  | -      | 0       | -       | -      | 0      |                        |                                |
| Grade, %              | 0      | -      | 0       | -       | -      | 0      |                        |                                |
| eak Hour Factor       | 92     | 92     | 92      | 92      | 92     | 92     |                        |                                |
| eavy Vehicles, %      | 2      | 2      | 2       | 2       | 2      | 2      |                        |                                |
| vmt Flow              | 100    | 79     | 2355    | 322     | 38     | 296    |                        |                                |
|                       |        |        |         |         |        |        |                        |                                |
| ajor/Minor            | Minor1 | ı      | Major1  | ı       | Major2 |        |                        |                                |
| onflicting Flow All   | 2888   | 2516   | 0       |         | 2355   | 0      |                        |                                |
| Stage 1               | 2516   | -      | -       | -       | -      | -      |                        |                                |
| Stage 2               | 372    | -      | -       | -       | -      | -      |                        |                                |
| ritical Hdwy          | 6.42   | 6.22   | -       | -       | 4.12   | -      |                        |                                |
| itical Hdwy Stg 1     | 5.42   | -      | -       | -       | -      | -      |                        |                                |
| itical Hdwy Stg 2     | 5.42   | -      | -       | -       | -      | -      |                        |                                |
| ollow-up Hdwy         | 3.518  | 3.318  | -       | -       | 2.218  | -      |                        |                                |
| ot Cap-1 Maneuver     | ~ 18   | ~ 36   | -       | -       | 208    | -      |                        |                                |
| Stage 1               | ~ 62   | -      | -       | -       | -      | -      |                        |                                |
| Stage 2               | 697    | -      | -       | -       | -      | -      |                        |                                |
| atoon blocked, %      |        |        | -       | -       |        | -      |                        |                                |
| ov Cap-1 Maneuver     | ~ 14   | ~ 36   | -       | -       | 208    | -      |                        |                                |
| ov Cap-2 Maneuver     | ~ 14   | -      | -       | -       | -      | -      |                        |                                |
| Stage 1               | ~ 62   | -      | -       | -       | -      | -      |                        |                                |
| Stage 2               | 544    | -      | -       | -       | -      | -      |                        |                                |
|                       |        |        |         |         |        |        |                        |                                |
| pproach               | WB     |        | NB      |         | SB     |        |                        |                                |
| CM Control Delay, \$  | 4193.4 |        | 0       |         | 3      |        |                        |                                |
| ICM LOS               | F      |        |         |         |        |        |                        |                                |
|                       |        |        |         |         |        |        |                        |                                |
| inor Lane/Major Mvr   | nt     | NBT    | NBRV    | VBLn1   | SBL    | SBT    |                        |                                |
| apacity (veh/h)       |        | -      | -       | 19      | 208    | -      |                        |                                |
| CM Lane V/C Ratio     |        | -      | -       | 9.439   |        | -      |                        |                                |
| CM Control Delay (s   | s)     | -      |         | 1193.4  | 26.1   | 0      |                        |                                |
| CM Lane LOS           | ,      | -      | -       | F       | D      | A      |                        |                                |
| CM 95th %tile Q(veh   | 1)     | -      | -       | 23      | 0.7    | -      |                        |                                |
| otes                  |        |        |         |         |        |        |                        |                                |
| Volume exceeds ca     | nacity | \$. Da | lav ovo | eeds 30 | )ne    | T. Com | outation Not Defined   | *: All major volume in platoon |
| rolullie exceeds ca   | pacity | ψ. De  | nay ext | ceus of | 303    | ·. Com | שממווטוו ואטנ שפוווופט | . All major volume in platoon  |

|                         | -    | *    | 1    | •    | 1    | -    |
|-------------------------|------|------|------|------|------|------|
| Lane Group              | EBT  | EBR  | WBL  | WBT  | NBL  | NBR  |
| Lane Group Flow (vph)   | 78   | 171  | 492  | 100  | 971  | 971  |
| v/c Ratio               | 0.24 | 0.14 | 0.93 | 0.14 | 1.03 | 0.73 |
| Control Delay           | 41.3 | 1.5  | 55.7 | 22.6 | 64.5 | 6.0  |
| Queue Delay             | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| Total Delay             | 41.3 | 1.5  | 55.7 | 22.6 | 64.5 | 6.0  |
| Queue Length 50th (ft)  | 48   | 7    | 291  | 45   | ~737 | 75   |
| Queue Length 95th (ft)  | 93   | 23   | #538 | 82   | #983 | 197  |
| Internal Link Dist (ft) | 1044 |      |      | 3802 | 1526 |      |
| Turn Bay Length (ft)    |      | 200  | 300  |      |      |      |
| Base Capacity (vph)     | 326  | 1215 | 531  | 719  | 941  | 1334 |
| Starvation Cap Reductn  | 0    | 0    | 0    | 0    | 0    | 0    |
| Spillback Cap Reductn   | 0    | 0    | 0    | 0    | 0    | 0    |
| Storage Cap Reductn     | 0    | 0    | 0    | 0    | 0    | 0    |
| Reduced v/c Ratio       | 0.24 | 0.14 | 0.93 | 0.14 | 1.03 | 0.73 |

Intersection Summary

Volume exceeds capacity, queue is theoretically infinite.

Queue shown is maximum after two cycles.

<sup># 95</sup>th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.

|                              | <b>→</b>    | *    | 1    | •        | 1       | 1    |
|------------------------------|-------------|------|------|----------|---------|------|
| Movement                     | EBT         | EBR  | WBL  | WBT      | NBL     | NBR  |
| Lane Configurations          | <b>↑</b>    | 7    | ሻ    | <b>↑</b> | *       | 7    |
| Traffic Volume (veh/h)       | 72          | 157  | 453  | 92       | 893     | 893  |
| Future Volume (veh/h)        | 72          | 157  | 453  | 92       | 893     | 893  |
| Initial Q (Qb), veh          | 0           | 0    | 0    | 0        | 0       | 033  |
| Ped-Bike Adj(A_pbT)          | U           | 1.00 | 1.00 | U        | 1.00    | 1.00 |
| Parking Bus, Adj             | 1.00        | 1.00 | 1.00 | 1.00     | 1.00    | 1.00 |
| Work Zone On Approach        | No          | 1.00 | 1.00 | No       | No      | 1.00 |
| Adj Sat Flow, veh/h/ln       | 1870        | 1870 | 1870 | 1870     | 1870    | 1870 |
| Adj Flow Rate, veh/h         | 78          | 0    | 492  | 100      | 971     | 971  |
| Peak Hour Factor             | 0.92        | 0.92 | 0.92 | 0.92     | 0.92    | 0.92 |
|                              | 0.92        |      | 0.92 |          |         | 0.92 |
| Percent Heavy Veh, %         |             | 2    |      | 2        | 2       |      |
| Cap, veh/h                   | 328         | 0.00 | 553  | 723      | 947     | 1112 |
| Arrive On Green              | 0.18        | 0.00 | 0.17 | 0.39     | 0.53    | 0.53 |
| Sat Flow, veh/h              | 1870        | 1585 | 1781 | 1870     | 1781    | 1585 |
| Grp Volume(v), veh/h         | 78          | 0    | 492  | 100      | 971     | 971  |
| Grp Sat Flow(s),veh/h/ln     | 1870        | 1585 | 1781 | 1870     | 1781    | 1585 |
| Q Serve(g_s), s              | 3.9         | 0.0  | 18.7 | 3.8      | 58.5    | 51.9 |
| Cycle Q Clear(g_c), s        | 3.9         | 0.0  | 18.7 | 3.8      | 58.5    | 51.9 |
| Prop In Lane                 |             | 1.00 | 1.00 |          | 1.00    | 1.00 |
| Lane Grp Cap(c), veh/h       | 328         |      | 553  | 723      | 947     | 1112 |
| V/C Ratio(X)                 | 0.24        |      | 0.89 | 0.14     | 1.02    | 0.87 |
| Avail Cap(c_a), veh/h        | 328         |      | 553  | 723      | 947     | 1112 |
| HCM Platoon Ratio            | 1.00        | 1.00 | 1.00 | 1.00     | 1.00    | 1.00 |
| Upstream Filter(I)           | 1.00        | 0.00 | 1.00 | 1.00     | 1.00    | 1.00 |
| Uniform Delay (d), s/veh     | 39.0        | 0.0  | 33.3 | 21.9     | 25.7    | 12.6 |
| Incr Delay (d2), s/veh       | 1.7         | 0.0  | 16.4 | 0.4      | 35.8    | 7.8  |
| Initial Q Delay(d3),s/veh    | 0.0         | 0.0  | 0.0  | 0.0      | 0.0     | 0.0  |
| %ile BackOfQ(50%),veh/ln     | 1.9         | 0.0  | 5.6  | 1.7      | 31.6    | 40.9 |
| , , ,                        | 1.9         | 0.0  | 3.0  | 1.7      | 31.0    | 40.9 |
| Unsig. Movement Delay, s/veh | 10.7        | 0.0  | 49.7 | 22.2     | G1 E    | 20.4 |
| LnGrp Delay(d),s/veh         | 40.7        | 0.0  |      | 22.3     | 61.5    | 20.4 |
| LnGrp LOS                    | D           |      | D    | C        | F 40.40 | С    |
| Approach Vol, veh/h          | 78          | Α    |      | 592      | 1942    |      |
| Approach Delay, s/veh        | 40.7        |      |      | 45.0     | 41.0    |      |
| Approach LOS                 | D           |      |      | D        | D       |      |
| Timer - Assigned Phs         | 1           | 2    |      | 4        |         | 6    |
| Phs Duration (G+Y+Rc), s     | 23.2        | 23.8 |      | 63.0     |         | 47.0 |
| Change Period (Y+Rc), s      | 4.5         | 4.5  |      | 4.5      |         | 47.0 |
| · /·                         | 4.5<br>18.7 |      |      |          |         | 42.5 |
| Max Green Setting (Gmax), s  |             | 19.3 |      | 58.5     |         |      |
| Max Q Clear Time (g_c+I1), s | 20.7        | 5.9  |      | 60.5     |         | 5.8  |
| Green Ext Time (p_c), s      | 0.0         | 0.2  |      | 0.0      |         | 0.5  |
| Intersection Summary         |             |      |      |          |         |      |
| HCM 6th Ctrl Delay           |             |      | 41.9 |          |         |      |
| HCM 6th LOS                  |             |      | D    |          |         |      |
| Notes                        |             |      |      |          |         |      |

| Intersection                       |          |          |          |          |        |          |
|------------------------------------|----------|----------|----------|----------|--------|----------|
| Int Delay, s/veh                   | 6.1      |          |          |          |        |          |
| Movement                           | EBL      | EBT      | WBT      | WBR      | SBL    | SBR      |
| Lane Configurations                |          | 4        | <b>1</b> |          | W      |          |
| Traffic Vol. veh/h                 | 403      | 559      | 322      | 19       | 7      | 223      |
| Future Vol, veh/h                  | 403      | 559      | 322      | 19       | 7      | 223      |
| Conflicting Peds, #/hr             | 0        | 0        | 0        | 0        | 0      | 0        |
| Sign Control                       | Free     | Free     | Free     | Free     | Stop   | Stop     |
| RT Channelized                     | -        | None     | -        |          | -      |          |
| Storage Length                     | -        | -        | -        | -        | 0      | -        |
| Veh in Median Storage              | ,# -     | 0        | 0        | -        | 0      | -        |
| Grade, %                           | -        | 0        | 0        | -        | 0      | -        |
| Peak Hour Factor                   | 92       | 92       | 92       | 92       | 92     | 92       |
| Heavy Vehicles, %                  | 2        | 2        | 2        | 2        | 2      | 2        |
| Mvmt Flow                          | 438      | 608      | 350      | 21       | 8      | 242      |
|                                    |          |          |          |          |        |          |
|                                    |          |          |          |          |        |          |
|                                    | Major1   |          | Major2   |          | Minor2 |          |
| Conflicting Flow All               | 371      | 0        | -        | 0        | 1845   | 361      |
| Stage 1                            | -        | -        | -        | -        | 361    | -        |
| Stage 2                            | -        | -        | -        | -        | 1484   | -        |
| Critical Hdwy                      | 4.12     | -        | -        | -        | 6.42   | 6.22     |
| Critical Hdwy Stg 1                | -        | -        | -        | -        | 5.42   | -        |
| Critical Hdwy Stg 2                | -        | -        | -        | -        | 5.42   | -        |
| Follow-up Hdwy                     | 2.218    | -        | -        | -        | 3.518  | 3.318    |
| Pot Cap-1 Maneuver                 | 1188     | -        | -        | -        | 82     | 684      |
| Stage 1                            | -        | -        | -        | -        | 705    | -        |
| Stage 2                            | -        | -        | -        | -        | 208    | -        |
| Platoon blocked, %                 |          | -        | -        | -        |        |          |
| Mov Cap-1 Maneuver                 | 1188     | -        | -        | -        | 36     | 684      |
| Mov Cap-2 Maneuver                 | -        | _        | _        | _        | 36     | -        |
| Stage 1                            | _        | _        | _        | _        | 312    | _        |
| Stage 2                            | <u>-</u> | _        | _        | <u>-</u> | 208    | <u>-</u> |
| Jugo 2                             |          |          |          |          | 200    |          |
|                                    |          |          |          |          |        |          |
| Approach                           | EB       |          | WB       |          | SB     |          |
| HCM Control Delay, s               | 4.1      |          | 0        |          | 23.2   |          |
| HCM LOS                            |          |          |          |          | С      |          |
|                                    |          |          |          |          |        |          |
| Minor Lane/Major Mvm               | +        | EBL      | EBT      | WBT      | \\/PD  | SBLn1    |
|                                    | ı        |          |          | WDI      |        |          |
| Capacity (veh/h)                   |          | 1188     | -        | -        | -      | 442      |
| HCM Cartes   Dalay (a)             |          | 0.369    | -        | -        |        | 0.566    |
|                                    |          | 9.8      | 0        | -        | -      | 23.2     |
| HCM Control Delay (s)              |          | Α.       | ٨        |          |        | ^        |
| HCM Lane LOS HCM 95th %tile Q(veh) |          | A<br>1.7 | A<br>-   | -        | -      | C<br>3.4 |

|  | Intersection         |        |        |          |          |        |        |                      |                                |
|--|----------------------|--------|--------|----------|----------|--------|--------|----------------------|--------------------------------|
| Second   | Int Delay, s/veh     | 224.2  |        |          |          |        |        |                      |                                |
| affic Vol, veh/h 226 96 71 238 1020 482 affic Vol, veh/h 226 96 71 238 1020 482 affic Vol, veh/h 226 96 71 238 1020 482 affic Vol, veh/h 226 96 71 238 1020 482 affic Vol, veh/h 226 96 71 238 1020 482 affic Vol, veh/h 226 96 71 238 1020 482 affic Vol, veh/h 226 96 71 238 1020 482 affic Vol, veh/h 226 96 71 238 1020 482 affic Vol, veh/h 226 96 71 238 1020 482 affic Vol, veh/h 226 96 71 238 1020 482 affic Vol, veh/h 226 96 71 238 1020 482 affic Vol, veh/h 226 96 71 238 1020 482 affic Vol, veh/h 226 97 28 affic Veh/h 226  |                      | FRI    | FRR    | NRI      | NRT      | SRT    | SBR    |                      |                                |
| affic Vol, veh/h   |                      |        | LDIX   | INDL     |          |        | ODIT   |                      |                                |
| uture Vol, veh/h         226         96         71         238         1020         482           on Control         Stop         Stop         Free         Free         Free         Free           T Channelized         - None         - None         - None         - None         - None           orage Length         0         0         0         3         0         3           hin Median Storage, # 0         0         0         0         3         0         3           rade, %         0         0         0         3         0         - 3           sak Hour Factor         92         92         92         92         92         92           aavy Vehicles, %         2         2         2         2         2         2         2         2           portflicting Flow All         1784         1371         1633         0         0         0         0         524           stage 1         1371  |                      |        | 96     | 71       |          |        | 482    |                      |                                |
| Onflicting Peds, #/hr  |                      |        |        |          |          |        |        |                      |                                |
| gn Control   Stop   Stop   Free   Free   Free   Free   Free   Tree   Tohannelized   None   No |                      |        |        |          |          |        |        |                      |                                |
| T Channelized  |                      |        |        |          |          |        |        |                      |                                |
| orage Length 0   |                      |        |        |          |          |        |        |                      |                                |
| eh in Median Storage, # 0  |                      | 0      |        |          | -        | _      |        |                      |                                |
| rade, % 0 0 0 0 0  |                      |        |        |          | 0        | 0      |        |                      |                                |
| Bask Hour Factor         92   |                      |        |        |          |          |        |        |                      |                                |
| eavy Vehicles, % 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2   |                      | -      |        |          |          |        |        |                      |                                |
| ajor/Minor Minor2 Major1 Major2  onflicting Flow All 1784 1371 1633 0 - 0  Stage 1 1371  |                      |        |        |          |          |        |        |                      |                                |
| ajor/Minor Minor2 Major1 Major2  conflicting Flow All 1784 1371 1633 0 - 0  Stage 1 1371   |                      |        |        |          |          |        |        |                      |                                |
| Onflicting Flow All 1784 1371 1633 0 - 0 Stage 1 1371  | WWINGT IOW           | 240    | 104    | - 11     | 200      | 1103   | JZT    |                      |                                |
| Onflicting Flow All 1784 1371 1633 0 - 0 Stage 1 1371  | laior/Minor          | Minor2 | ı      | Maior1   | ı        | Maior2 |        |                      |                                |
| Stage 1 1371   |                      |        |        |          |          |        | ٥      |                      |                                |
| Stage 2  |                      |        |        |          |          |        |        |                      |                                |
| ritical Hdwy Stg 1 5.42  |                      |        | -      | -        |          |        |        |                      |                                |
| ritical Hdwy Stg 1   |                      |        | 6 22   | 112      |          |        |        |                      |                                |
| ritical Hdwy Stg 2 5.42  |                      |        |        |          |          |        |        |                      |                                |
| Solidow-up Hdwy   3.518   3.318   2.218   -   -   -   -   -   -   -   -   -  |                      |        |        |          |          |        |        |                      |                                |
| Stage 1  |                      |        |        |          |          |        |        |                      |                                |
| Stage 1       ~ 236       -       -       -       -         Stage 2       668       -       -       -       -         atoon blocked, %       -       -       -       -         ov Cap-1 Maneuver       ~ 70       -       -       -       -         ov Cap-2 Maneuver       ~ 70       -       -       -       -         Stage 1       ~ 182       -       -       -       -         Stage 2       668       -       -       -       -         oproach       EB       NB       SB         CM Control Delay, \$ 1481.7       3.7       0         CM LOS       F     Stage 2  Maneuver  Anneuver  Anne   |                      |        |        |          |          |        |        |                      |                                |
| Stage 2       668       -       -       -       -         atoon blocked, %       -       -       -       -         ov Cap-1 Maneuver       ~ 70       -       -       -       -         ov Cap-2 Maneuver       ~ 70       -       -       -       -         Stage 1       ~ 182       -       -       -       -         Stage 2       668       -       -       -       -         opproach       EB       NB       SB         CM Control Delay, \$ 1481.7       3.7       0         CM Los       F         inor Lane/Major Mvmt       NBL       NBT EBLn1       SBT       SBR         apacity (veh/h)       397       -       86       -       -         CM Lane V/C Ratio       0.194       -       4.07       -       -         CM Control Delay (s)       16.2       \$ 1481.7       -       -         CM Lane LOS       C       A       F       -       -         Ottes       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       - <td< td=""><td></td><td></td><td></td><td>331</td><td></td><td></td><td></td><td></td><td></td></td<>   |                      |        |        | 331      |          |        |        |                      |                                |
| atoon blocked, % ov Cap-1 Maneuver ~ 70 179 397 ov Cap-2 Maneuver ~ 70 Stage 1 ~ 182 Stage 2 668  Stage 2 668  Opproach EB NB SB  CM Control Delay, \$ 1481.7 3.7 0  CM LOS F   Inor Lane/Major Mvmt NBL NBT EBLn1 SBT SBR  apacity (veh/h) 397 - 86 CM Lane V/C Ratio 0.194 - 4.07 CM Control Delay (s) 16.2 \$ 1481.7 CM Control Delay (s) 16.2 \$ 1481.7 CM Lane LOS C A F CM 95th %tile Q(veh) 0.7 - 36.6  otes  |                      |        |        | <u>-</u> |          |        |        |                      |                                |
| ov Cap-1 Maneuver ~ 70   |                      | 000    |        | -        |          |        |        |                      |                                |
| ov Cap-2 Maneuver       ~ 70       -   |                      | ~ 70   | 170    | 307      |          |        |        |                      |                                |
| Stage 1       ~ 182       - <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>   |                      |        |        |          |          |        |        |                      |                                |
| Stage 2 668  |                      |        |        |          |          |        |        |                      |                                |
| SB   |                      |        | -      |          |          | -      | -      |                      |                                |
| CM Control Delay, \$ 1481.7  CM LOS  F  inor Lane/Major Mvmt  NBL  NBT EBLn1  SBT  SBR  apacity (veh/h)  397  - 86   CM Lane V/C Ratio  0.194  - 4.07   CM Control Delay (s)  16.2  \$ 1481.7   CM Lane LOS  C  A  F  -  CM 95th %tile Q(veh)  0.7  - 36.6   otes  | Slaye 2              | 000    | -      | -        | <u>-</u> | -      | -      |                      |                                |
| CM Control Delay, \$ 1481.7 3.7 0  CM LOS F  inor Lane/Major Mvmt NBL NBT EBLn1 SBT SBR  apacity (veh/h) 397 - 86  CM Lane V/C Ratio 0.194 - 4.07  CM Control Delay (s) 16.2 \$ 1481.7  CM Lane LOS C A F  CM 95th %tile Q(veh) 0.7 - 36.6   | nnroach              | FR     |        | MR       |          | SB     |        |                      |                                |
| CM LOS         F           inor Lane/Major Mvmt         NBL         NBT EBLn1         SBT         SBR           apacity (veh/h)         397         -         86         -         -           CM Lane V/C Ratio         0.194         -         4.07         -         -           CM Control Delay (s)         16.2         \$ 1481.7         -         -           CM Lane LOS         C         A         F         -         -           CM 95th %tile Q(veh)         0.7         -         36.6         -         -         -           otes         -         -         -         -         -         -         -   |                      |        |        |          |          |        |        |                      |                                |
| inor Lane/Major Mvmt NBL NBT EBLn1 SBT SBR apacity (veh/h) 397 - 86 CM Lane V/C Ratio 0.194 - 4.07 CM Control Delay (s) 16.2 \$1481.7 CM Lane LOS C A F CM 95th %tile Q(veh) 0.7 - 36.6  |                      |        |        | 5.1      |          | U      |        |                      |                                |
| apacity (veh/h) 397 - 86  CM Lane V/C Ratio 0.194 - 4.07  CM Control Delay (s) 16.2 \$1481.7  CM Lane LOS C A F  CM 95th %tile Q(veh) 0.7 - 36.6  otes   | IOIVI LOG            | Г      |        |          |          |        |        |                      |                                |
| apacity (veh/h) 397 - 86  CM Lane V/C Ratio 0.194 - 4.07  CM Control Delay (s) 16.2 \$1481.7  CM Lane LOS C A F  CM 95th %tile Q(veh) 0.7 - 36.6  otes   | Minor Lane/Major Myr | nt     | NRI    | NRT      | FRI n1   | SRT    | SBR    |                      |                                |
| CM Lane V/C Ratio 0.194 - 4.07  CM Control Delay (s) 16.2 \$ 1481.7  CM Lane LOS C A F  CM 95th %tile Q(veh) 0.7 - 36.6  otes  |                      |        |        | - 1011   |          | -      |        |                      |                                |
| CM Control Delay (s) 16.2 \$ 1481.7  CM Lane LOS C A F  CM 95th %tile Q(veh) 0.7 - 36.6  otes  |                      |        |        |          |          |        |        |                      |                                |
| CM Lane LOS         C         A         F         -         -           CM 95th %tile Q(veh)         0.7         -         36.6         -         -   otes   |                      | )      |        |          |          |        |        |                      |                                |
| CM 95th %tile Q(veh) 0.7 - 36.6 otes   |                      | 1      |        |          |          |        |        |                      |                                |
| otes   |                      | 1)     |        |          |          |        |        |                      |                                |
|  | ·                    | .,     | 0.1    |          | 00.0     |        |        |                      |                                |
| volume exceeds capacity \$: Delay exceeds 300s +: Computation Not Defined *: All major volume in platoon   |                      | .,     | Φ. D.  |          |          | 20     |        | L.C. N. C.           | * All                          |
|  | : Volume exceeds ca  | pacity | \$: De | elay exc | eeds 30  | JUS    | +: Com | outation Not Defined | 1: All major volume in platoon |

| Intersection           |          |        |          |         |        |         |
|------------------------|----------|--------|----------|---------|--------|---------|
| Int Delay, s/veh       | 101.9    |        |          |         |        |         |
| -                      | WBL      | WBR    | NIDT     | NIDD    | SBL    | SBT     |
| Movement               |          | WDK    | NBT      | NBR     | OBL    |         |
| Lane Configurations    | <b>Y</b> | 50     | <b>♣</b> | 00      | 07     | 4       |
| Traffic Vol, veh/h     | 61       | 52     | 404      | 60      | 87     | 1441    |
| Future Vol, veh/h      | 61       | 52     | 404      | 60      | 87     | 1441    |
| Conflicting Peds, #/hr | 0        | 0      | 0        | _ 0     | 0      | _ 0     |
| Sign Control           | Stop     | Stop   | Free     | Free    | Free   | Free    |
| RT Channelized         | -        | None   | -        | None    | -      | None    |
| Storage Length         | 0        | -      | -        | -       | -      | -       |
| Veh in Median Storage  |          | -      | 0        | -       | -      | 0       |
| Grade, %               | 0        | -      | 0        | -       | -      | 0       |
| Peak Hour Factor       | 92       | 92     | 92       | 92      | 92     | 92      |
| Heavy Vehicles, %      | 2        | 2      | 2        | 2       | 2      | 2       |
| Mvmt Flow              | 66       | 57     | 439      | 65      | 95     | 1566    |
|                        |          |        |          |         |        |         |
| Major/Minor            | Minar1   |        | laier1   | , n     | Majora |         |
|                        | Minor1   |        | /lajor1  |         | Major2 |         |
| Conflicting Flow All   | 2228     | 472    | 0        | 0       | 504    | 0       |
| Stage 1                | 472      | -      | -        | -       | -      | -       |
| Stage 2                | 1756     | -      | -        | -       | -      | -       |
| Critical Hdwy          | 6.42     | 6.22   | -        | -       | 4.12   | -       |
| Critical Hdwy Stg 1    | 5.42     | -      | -        | -       | -      | -       |
| Critical Hdwy Stg 2    | 5.42     | -      | -        | -       | -      | -       |
| Follow-up Hdwy         | 3.518    | 3.318  | -        | -       | 2.218  | -       |
| Pot Cap-1 Maneuver     | ~ 47     | 592    | -        | -       | 1061   | -       |
| Stage 1                | 628      | -      | -        | -       | -      | -       |
| Stage 2                | 152      | -      | -        | -       | -      | -       |
| Platoon blocked, %     |          |        | -        | -       |        | -       |
| Mov Cap-1 Maneuver     | ~ 15     | 592    | -        | -       | 1061   | _       |
| Mov Cap-2 Maneuver     | ~ 15     | -      | -        | -       | -      | -       |
| Stage 1                | 628      | -      | _        | -       | _      | _       |
| Stage 2                | ~ 47     | -      | -        | _       | -      | -       |
|                        |          |        |          |         |        |         |
|                        |          |        |          |         |        |         |
| Approach               | WB       |        | NB       |         | SB     |         |
| HCM Control Delay, \$  | 1891.2   |        | 0        |         | 0.5    |         |
| HCM LOS                | F        |        |          |         |        |         |
|                        |          |        |          |         |        |         |
| Minor Lane/Major Mvm   | nt       | NPT    | NDDV     | VRI n1  | SBL    | SBT     |
|                        | IL       | NBT    | INDKV    | VBLn1   |        |         |
| Capacity (veh/h)       |          | -      | -        | 27      | 1061   | -       |
| HCM Lane V/C Ratio     |          | -      |          | 4.549   |        | -       |
| HCM Control Delay (s)  |          | -      |          | 1891.2  | 8.7    | 0       |
| HCM Lane LOS           | _        | -      | -        | F       | Α      | A       |
| HCM 95th %tile Q(veh)  | )        | -      | -        | 15      | 0.3    | -       |
| Notes                  |          |        |          |         |        |         |
| ~: Volume exceeds cap  | nacity   | \$· Da | lav evo  | eeds 30 | )0s    | +: Comp |
| . Volumo exceeds ca    | paoity   | ψ. De  | ay exc   | 0003 00 | 703    | ·. Comp |

| Intersection                  |             |        |          |         |           |        |                      |                                |
|-------------------------------|-------------|--------|----------|---------|-----------|--------|----------------------|--------------------------------|
| Int Delay, s/veh              | 365.7       |        |          |         |           |        |                      |                                |
| Movement                      | WBL         | WBR    | NBT      | NBR     | SBL       | SBT    |                      |                                |
| Lane Configurations           | ¥           | WEIT   | <b>1</b> | HOIL    | ODL       | 4      |                      |                                |
| Traffic Vol, veh/h            | 302         | 45     | 332      | 124     | 65        | 1226   |                      |                                |
| Future Vol, veh/h             | 302         | 45     | 332      | 124     | 65        | 1226   |                      |                                |
| Conflicting Peds, #/hr        | 002         | 0      | 0        | 0       | 0         | 0      |                      |                                |
| Sign Control                  | Stop        | Stop   | Free     | Free    | Free      | Free   |                      |                                |
| RT Channelized                | -           | None   | -        | Yield   | -         |        |                      |                                |
| Storage Length                | 0           | -      | -        | -       | -         | -      |                      |                                |
| Veh in Median Storage         |             | -      | 0        | _       | -         | 0      |                      |                                |
| Grade, %                      | 0           | -      | 0        | -       | _         | 0      |                      |                                |
| Peak Hour Factor              | 92          | 92     | 92       | 92      | 92        | 92     |                      |                                |
| Heavy Vehicles, %             | 2           | 2      | 2        | 2       | 2         | 2      |                      |                                |
| Mvmt Flow                     | 328         | 49     | 361      | 135     | 71        | 1333   |                      |                                |
|                               |             |        |          |         |           |        |                      |                                |
| Major/Minor                   | Minor1      | ı      | /lajor1  | ı       | Major2    |        |                      |                                |
| Conflicting Flow All          | 1904        | 429    | 0        | 0       | 361       | 0      |                      |                                |
| Stage 1                       | 429         | 429    | -        | -       | -         | -      |                      |                                |
| Stage 2                       | 1475        | _      | _        | -       | _         | _      |                      |                                |
| Critical Hdwy                 | 6.42        | 6.22   | -        | -       | 4.12      | _      |                      |                                |
| Critical Hdwy Stg 1           | 5.42        | 0.22   | _        | -       | 4.12      | _      |                      |                                |
| Critical Hdwy Stg 2           | 5.42        | _      |          |         | _         | _      |                      |                                |
| Follow-up Hdwy                |             |        | <u>-</u> | _       | 2.218     | _      |                      |                                |
| Pot Cap-1 Maneuver            | ~ 76        | 626    | _        | _       | 1198      | _      |                      |                                |
| Stage 1                       | 657         | -      | _        | _       | -         | _      |                      |                                |
| Stage 2                       | ~ 210       | _      | _        | _       | _         | _      |                      |                                |
| Platoon blocked, %            | 210         |        | _        | _       |           | _      |                      |                                |
| Mov Cap-1 Maneuver            | ~ 59        | 626    | _        | _       | 1198      | _      |                      |                                |
| Mov Cap-2 Maneuver            | ~ 59        | -      | _        | _       | -         | _      |                      |                                |
| Stage 1                       | 657         | -      | -        | -       | -         | -      |                      |                                |
| Stage 2                       | ~ 162       | -      | _        | _       | -         | _      |                      |                                |
|                               |             |        |          |         |           |        |                      |                                |
| A nora a a b                  | WB          |        | ND       |         | CD        |        |                      |                                |
| Approach                      |             |        | NB       |         | SB<br>0.4 |        |                      |                                |
| HCM Control Delay, \$ HCM LOS | 2205.4<br>F |        | 0        |         | 0.4       |        |                      |                                |
|                               | r           |        |          |         |           |        |                      |                                |
|                               |             |        |          | VD1 1   | 0-:       |        |                      |                                |
| Minor Lane/Major Mvn          | nt          | NBT    | NBKV     | VBLn1   | SBL       | SBT    |                      |                                |
| Capacity (veh/h)              |             | -      | -        | 67      | 1198      | -      |                      |                                |
| HCM Lane V/C Ratio            |             | -      |          |         | 0.059     | -      |                      |                                |
| HCM Control Delay (s)         |             | -      |          | 2205.4  | 8.2       | 0      |                      |                                |
| HCM Lane LOS                  | ,           | -      | -        | F       | A         | Α      |                      |                                |
| HCM 95th %tile Q(veh          |             | -      | -        | 42.1    | 0.2       | -      |                      |                                |
| Notes                         |             |        |          |         |           |        |                      |                                |
| ~: Volume exceeds ca          | pacity      | \$: De | lay exc  | eeds 30 | 00s       | +: Com | putation Not Defined | *: All major volume in platoon |

|                         | $\rightarrow$ | *     | 1     | •    | 1    | 1    |
|-------------------------|---------------|-------|-------|------|------|------|
| Lane Group              | EBT           | EBR   | WBL   | WBT  | NBL  | NBR  |
| Lane Group Flow (vph)   | 95            | 701   | 1551  | 77   | 317  | 451  |
| v/c Ratio               | 0.49          | 1.24  | 1.37  | 0.06 | 0.93 | 0.33 |
| Control Delay           | 51.6          | 151.8 | 190.0 | 4.3  | 75.3 | 0.9  |
| Queue Delay             | 0.0           | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  |
| Total Delay             | 51.6          | 151.8 | 190.0 | 4.3  | 75.3 | 0.9  |
| Queue Length 50th (ft)  | 59            | ~549  | ~1246 | 13   | 202  | 0    |
| Queue Length 95th (ft)  | 110           | #771  | #1552 | 25   | #386 | 19   |
| Internal Link Dist (ft) | 1044          |       |       | 3802 | 1526 |      |
| Turn Bay Length (ft)    |               | 200   | 300   |      |      |      |
| Base Capacity (vph)     | 359           | 566   | 1135  | 1504 | 342  | 1365 |
| Starvation Cap Reductn  | 0             | 0     | 0     | 0    | 0    | 0    |
| Spillback Cap Reductn   | 0             | 0     | 0     | 0    | 0    | 0    |
| Storage Cap Reductn     | 0             | 0     | 0     | 0    | 0    | 0    |
| Reduced v/c Ratio       | 0.26          | 1.24  | 1.37  | 0.05 | 0.93 | 0.33 |

Intersection Summary

Volume exceeds capacity, queue is theoretically infinite.

Queue shown is maximum after two cycles.

<sup># 95</sup>th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.

|                              | <b>→</b> | *    | 1     | •        | 1    | -    |
|------------------------------|----------|------|-------|----------|------|------|
| Movement                     | EBT      | EBR  | WBL   | WBT      | NBL  | NBR  |
| Lane Configurations          | <b>^</b> | 7    | *     | <u> </u> | 7    | 7    |
| Traffic Volume (veh/h)       | 87       | 645  | 1427  | 71       | 292  | 415  |
| Future Volume (veh/h)        | 87       | 645  | 1427  | 71       | 292  | 415  |
| Initial Q (Qb), veh          | 0        | 0    | 0     | 0        | 0    | 0    |
| Ped-Bike Adj(A_pbT)          | U        | 1.00 | 1.00  | U        | 1.00 | 1.00 |
| Parking Bus, Adj             | 1.00     | 1.00 | 1.00  | 1.00     | 1.00 | 1.00 |
| Work Zone On Approach        | No       | 1.00 | 1.00  | No       | No   | 1.00 |
| Adj Sat Flow, veh/h/ln       | 1870     | 1870 | 1870  | 1870     | 1870 | 1870 |
|                              | 95       |      | 1551  | 77       | 317  | 451  |
| Adj Flow Rate, veh/h         |          | 0 02 |       |          |      | 0.92 |
| Peak Hour Factor             | 0.92     | 0.92 | 0.92  | 0.92     | 0.92 |      |
| Percent Heavy Veh, %         | 2        | 2    | 2     | 2        | 2    | 2    |
| Cap, veh/h                   | 136      | 0.00 | 1158  | 1329     | 350  | 1249 |
| Arrive On Green              | 0.07     | 0.00 | 0.59  | 0.71     | 0.20 | 0.20 |
| Sat Flow, veh/h              | 1870     | 1585 | 1781  | 1870     | 1781 | 1585 |
| Grp Volume(v), veh/h         | 95       | 0    | 1551  | 77       | 317  | 451  |
| Grp Sat Flow(s),veh/h/ln     | 1870     | 1585 | 1781  | 1870     | 1781 | 1585 |
| Q Serve(g_s), s              | 4.8      | 0.0  | 57.5  | 1.2      | 16.9 | 8.2  |
| Cycle Q Clear(g_c), s        | 4.8      | 0.0  | 57.5  | 1.2      | 16.9 | 8.2  |
| Prop In Lane                 |          | 1.00 | 1.00  |          | 1.00 | 1.00 |
| Lane Grp Cap(c), veh/h       | 136      |      | 1158  | 1329     | 350  | 1249 |
| V/C Ratio(X)                 | 0.70     |      | 1.34  | 0.06     | 0.90 | 0.36 |
| Avail Cap(c_a), veh/h        | 375      |      | 1158  | 1568     | 357  | 1256 |
| HCM Platoon Ratio            | 1.00     | 1.00 | 1.00  | 1.00     | 1.00 | 1.00 |
| Upstream Filter(I)           | 1.00     | 0.00 | 1.00  | 1.00     | 1.00 | 1.00 |
| Uniform Delay (d), s/veh     | 44.0     | 0.00 | 14.5  | 4.2      | 38.2 | 3.0  |
| Incr Delay (d2), s/veh       | 6.3      | 0.0  | 158.6 | 0.0      | 25.3 | 0.2  |
|                              | 0.0      | 0.0  | 0.0   | 0.0      | 0.0  | 0.2  |
| Initial Q Delay(d3),s/veh    |          |      |       |          |      |      |
| %ile BackOfQ(50%),veh/ln     | 2.4      | 0.0  | 67.8  | 0.3      | 9.5  | 0.1  |
| Unsig. Movement Delay, s/veh | F0 0     | ^ ^  | 470.4 | 4.0      | 00.4 | 0.0  |
| LnGrp Delay(d),s/veh         | 50.3     | 0.0  | 173.1 | 4.3      | 63.4 | 3.2  |
| LnGrp LOS                    | D        |      | F     | Α        | E    | A    |
| Approach Vol, veh/h          | 95       | Α    |       | 1628     | 768  |      |
| Approach Delay, s/veh        | 50.3     |      |       | 165.1    | 28.1 |      |
| Approach LOS                 | D        |      |       | F        | С    |      |
| Timer - Assigned Phs         | 1        | 2    |       | 4        |      | 6    |
| Phs Duration (G+Y+Rc), s     | 62.0     | 11.6 |       | 23.6     |      | 73.6 |
| ,                            |          |      |       |          |      |      |
| Change Period (Y+Rc), s      | 4.5      | 4.5  |       | 4.5      |      | 4.5  |
| Max Green Setting (Gmax), s  | 57.5     | 19.5 |       | 19.5     |      | 81.5 |
| Max Q Clear Time (g_c+l1), s | 59.5     | 6.8  |       | 18.9     |      | 3.2  |
| Green Ext Time (p_c), s      | 0.0      | 0.3  |       | 0.2      |      | 0.4  |
| Intersection Summary         |          |      |       |          |      |      |
| HCM 6th Ctrl Delay           |          |      | 118.5 |          |      |      |
| HCM 6th LOS                  |          |      | F     |          |      |      |
| Notes                        |          |      |       |          |      |      |

| Intersection                           |         |                    |                |              |        |            |
|--|---------|--------------------|----------------|--------------|--------|------------|
| Int Delay, s/veh                       | 264.9   |                    |                |              |        |            |
| Movement                               | EBL     | EBT                | WBT            | WBR          | SBL    | SBR        |
|  | CDL     |                    |                | WDK          | SBL    | SDK        |
| Lane Configurations Traffic Vol, veh/h | 185     | <b>र्दी</b><br>311 | <b>1</b> → 530 | 23           | 10     | 969        |
| Future Vol, veh/h                      | 185     | 311                | 530            | 23           | 10     | 969        |
| Conflicting Peds, #/hr                 |         | 0                  | 0              | 0            | 0      | 0          |
| Sign Control                           | Free    | Free               | Free           | Free         | Stop   | Stop       |
| RT Channelized                         | -       |                    |                | None         | - Olop | None       |
| Storage Length                         | _       | -                  | _              | -            | 0      | -          |
| Veh in Median Storag                   |         | 0                  | 0              | -            | 0      | _          |
| Grade, %                               | -<br>-  | 0                  | 0              | _            | 0      | _          |
| Peak Hour Factor                       | 92      | 92                 | 92             | 92           | 92     | 92         |
| Heavy Vehicles, %                      | 2       | 2                  | 2              | 2            | 2      | 2          |
| Mymt Flow                              | 201     | 338                | 576            | 25           | 11     | 1053       |
|  | 201     | - 500              | 510            |              |        | .000       |
| N 4 . ' /N 4'                          |         | _                  | M              |              |        |            |
| Major/Minor                            | Major1  |                    | Major2         |              | Minor2 |            |
| Conflicting Flow All                   | 601     | 0                  | -              | 0            | 1329   | 589        |
| Stage 1                                | -       | -                  | -              | -            | 589    | -          |
| Stage 2                                | -       | -                  | -              | -            | 740    | -          |
| Critical Hdwy                          | 4.12    | -                  | -              | -            | 6.42   | 6.22       |
| Critical Hdwy Stg 1                    | -       | -                  | -              | -            | 5.42   | -          |
| Critical Hdwy Stg 2                    | -       | -                  | -              | -            | 5.42   | -          |
| Follow-up Hdwy                         | 2.218   | -                  | -              |              | 3.518  |            |
| Pot Cap-1 Maneuver                     |         | -                  | -              | -            |        | ~ 508      |
| Stage 1                                | -       | -                  | -              | -            | 554    | -          |
| Stage 2                                | -       | -                  | -              | -            | 472    | -          |
| Platoon blocked, %                     |         | -                  | -              | -            |        |            |
| Mov Cap-1 Maneuve                      |         | -                  | -              | -            |        | ~ 508      |
| Mov Cap-2 Maneuve                      |         | -                  | -              | -            | 128    | -          |
| Stage 1                                | -       | -                  | -              | -            | 413    | -          |
| Stage 2                                | -       | -                  | -              | -            | 472    | -          |
|  |         |                    |                |              |        |            |
| Approach                               | EB      |                    | WB             |              | SB     |            |
| HCM Control Delay, s                   | 3.6     |                    | 0              | \$           | 546.9  |            |
| HCM LOS                                |         |                    |                | <del>_</del> | F      |            |
|  |         |                    |                |              |        |            |
| Minor Lane/Major Mv                    | mt      | EBL                | EBT            | WBT          | WRR    | SBLn1      |
| Capacity (veh/h)                       | IIIL    | 976                |                | WDI          | WDK -  | 493        |
| HCM Lane V/C Ratio                     |         | 0.206              | -              | -            |        | 2.158      |
| HCM Control Delay (                    |         | 9.6                | 0              | -            |        | 546.9      |
| HCM Lane LOS                           | 3)      | 9.0<br>A           | A              | -            | -1     | 540.9<br>F |
| HCM 95th %tile Q(ve                    | h)      | 0.8                | ۸ -            |              | _      | 76.6       |
| `                                      | 11)     | 0.0                |                | _            | _      | 70.0       |
| Notes                                  |         |                    |                |              |        |            |
| ~: Volume exceeds ca                   | apacity | \$: De             | elay exc       | eeds 30      | 00s    | +: Com     |

# PROJECTED CONDITIONS CAPACITY ANALYSES



| Intersection           |             |          |          |             |        |          |
|------------------------|-------------|----------|----------|-------------|--------|----------|
| Int Delay, s/veh       | 2377        |          |          |             |        |          |
|                        |             | EDD      | NDI      | NET         | 057    | 000      |
| Movement               | EBL         | EBR      | NBL      | NBT         | SBT    | SBR      |
| Lane Configurations    | ¥           |          |          | 4           | ₽      |          |
| Traffic Vol, veh/h     | 549         | 48       | 144      | 1924        | 211    | 281      |
| Future Vol, veh/h      | 549         | 48       | 144      | 1924        | 211    | 281      |
| Conflicting Peds, #/hr | 0           | 0        | 0        | 0           | 0      | 0        |
| Sign Control           | Stop        | Stop     | Free     | Free        | Free   | Free     |
| RT Channelized         | -           | None     | -        | None        | -      | None     |
| Storage Length         | 0           | -        | -        | -           | -      | -        |
| Veh in Median Storage  | e, # 0      | -        | -        | 0           | 0      | -        |
| Grade, %               | 0           | -        | -        | 0           | 0      | -        |
| Peak Hour Factor       | 92          | 92       | 92       | 92          | 92     | 92       |
| Heavy Vehicles, %      | 2           | 2        | 2        | 2           | 2      | 2        |
| Mvmt Flow              | 597         | 52       | 157      | 2091        | 229    | 305      |
|                        |             |          |          |             |        |          |
|                        |             |          |          |             |        |          |
|                        | Minor2      |          | Major1   |             | Major2 |          |
| Conflicting Flow All   | 2787        | 382      | 534      | 0           | -      | 0        |
| Stage 1                | 382         | -        | -        | -           | -      | -        |
| Stage 2                | 2405        | -        | -        | -           | -      | -        |
| Critical Hdwy          | 6.42        | 6.22     | 4.12     | -           | -      | -        |
| Critical Hdwy Stg 1    | 5.42        | -        | -        | -           | -      | -        |
| Critical Hdwy Stg 2    | 5.42        | -        | -        | -           | -      | -        |
| Follow-up Hdwy         | 3.518       | 3.318    | 2.218    | -           | _      | -        |
| Pot Cap-1 Maneuver     | ~ 21        | 665      | 1034     | _           | -      | -        |
| Stage 1                | 690         | -        |          | _           | _      | _        |
| Stage 2                | ~ 71        | _        | _        | _           | _      | _        |
| Platoon blocked, %     | 71          |          |          |             | _      | _        |
| Mov Cap-1 Maneuver     | ~ 21        | 665      | 1034     | -           | -      | <u>-</u> |
|                        |             |          |          |             |        | -        |
| Mov Cap-2 Maneuver     | ~ 21        | -        | -        | -           | -      | -        |
| Stage 1                | 690         | -        | -        | -           | -      | -        |
| Stage 2                | ~ 71        | -        | -        | -           | -      | -        |
|                        |             |          |          |             |        |          |
| Approach               | EB          |          | NB       |             | SB     |          |
|                        |             |          | 0.6      |             | 0      |          |
| HCM LOS                | 2507.8<br>F |          | 0.0      |             | U      |          |
| HCM LOS                | F           |          |          |             |        |          |
|                        |             |          |          |             |        |          |
| Minor Lane/Major Mvr   | nt          | NBL      | NBT I    | EBLn1       | SBT    | SBR      |
| Capacity (veh/h)       |             | 1034     | -        | 23          | -      | -        |
| HCM Lane V/C Ratio     |             | 0.151    |          | 28.214      | _      | -        |
| HCM Control Delay (s   | )           | 9.1      |          | 2567.8      | _      |          |
| HCM Lane LOS           |             | 9.1<br>A | A A      | 2307.8<br>F | -      | -        |
| HCM 95th %tile Q(veh   | .)          | 0.5      |          | 81.2        |        |          |
|                        | IJ          | 0.0      | -        | 01.2        | -      | -        |
| Notes                  |             |          |          |             |        |          |
| ~: Volume exceeds ca   | pacity      | \$: De   | elay exc | eeds 30     | 00s    | +: Com   |
|                        | 1- 0011     | Ţ. D.    | one      | 20000       |        | . 50111  |

| Intersection           |          |        |          |             |           |        |                      |   |         |
|------------------------|----------|--------|----------|-------------|-----------|--------|----------------------|---|---------|
| Int Delay, s/veh       | 162.5    |        |          |             |           |        |                      |   |         |
| Movement               | WBL      | WBR    | NBT      | NBR         | SBL       | SBT    |                      |   |         |
| Lane Configurations    | ¥        |        | <b>4</b> |             |           | 4      |                      |   |         |
| Traffic Vol, veh/h     | 29       | 99     | 2417     | 56          | 44        | 462    |                      |   |         |
| uture Vol, veh/h       | 29       | 99     | 2417     | 56          | 44        | 462    |                      |   |         |
| Conflicting Peds, #/hr | 0        | 0      | 0        | 0           | 0         | 0      |                      |   |         |
| Sign Control           | Stop     | Stop   | Free     | Free        | Free      | Free   |                      |   |         |
| RT Channelized         | -        | None   | -        | None        | -         |        |                      |   |         |
| Storage Length         | 0        | -      | -        | -           | -         | -      |                      |   |         |
| eh in Median Storage   | e, # 0   | -      | 0        | -           | -         | 0      |                      |   |         |
| Grade, %               | 0        | -      | 0        | -           | -         | 0      |                      |   |         |
| Peak Hour Factor       | 92       | 92     | 92       | 92          | 92        | 92     |                      |   |         |
| leavy Vehicles, %      | 2        | 2      | 2        | 2           | 2         | 2      |                      |   |         |
| /lvmt Flow             | 32       | 108    | 2627     | 61          | 48        | 502    |                      |   |         |
|                        |          |        |          |             |           |        |                      |   |         |
| Major/Minor            | Minor1   | N      | Major1   |             | Major2    |        |                      |   |         |
| Conflicting Flow All   | 3256     | 2658   | 0        |             | 2688      | 0      |                      |   |         |
| Stage 1                | 2658     | -      | -        | -           | -         | -      |                      |   |         |
| Stage 2                | 598      | -      | _        | _           | -         | _      |                      |   |         |
| Critical Hdwy          | 6.42     | 6.22   | -        | -           | 4.12      | -      |                      |   |         |
| ritical Hdwy Stg 1     | 5.42     | -      | -        | _           | -         | -      |                      |   |         |
| Critical Hdwy Stg 2    | 5.42     | -      | -        | -           | -         | -      |                      |   |         |
| follow-up Hdwy         | 3.518    | 3.318  | -        | -           | 2.218     | -      |                      |   |         |
| Pot Cap-1 Maneuver     | ~ 10     | ~ 29   | -        | -           | 153       | -      |                      |   |         |
| Stage 1                | 53       | -      | -        | -           | -         | -      |                      |   |         |
| Stage 2                | 549      | -      | -        | -           | -         | -      |                      |   |         |
| Platoon blocked, %     |          |        | -        | -           |           | -      |                      |   |         |
| Mov Cap-1 Maneuver     | ~ 6      | ~ 29   | -        | -           | 153       | -      |                      |   |         |
| Nov Cap-2 Maneuver     | ~ 6      | -      | -        | -           | -         | -      |                      |   |         |
| Stage 1                | 53       | -      | -        | -           | -         | -      |                      |   |         |
| Stage 2                | 310      | -      | -        | -           | -         | -      |                      |   |         |
|                        |          |        |          |             |           |        |                      |   |         |
| Approach               | WB       |        | NB       |             | SB        |        |                      |   |         |
| HCM Control Delay, \$  |          |        | 0        |             | 3.4       |        |                      |   |         |
| HCM LOS                | F        |        |          |             | 0.1       |        |                      |   |         |
|                        |          |        |          |             |           |        |                      |   |         |
| Minor Lane/Major Mvn   | nt       | NBT    | NBR\     | VBLn1       | SBL       | SBT    |                      |   |         |
| Capacity (veh/h)       |          |        | -        |             | 153       | -      |                      |   |         |
| ICM Lane V/C Ratio     |          | -      |          | 8.696       |           | -      |                      |   |         |
| ICM Control Delay (s   | )        |        |          | 3930.9      | 38.9      | 0      |                      |   |         |
| ICM Control Delay (s   | <i>)</i> |        | φ·,<br>- | 5730.7<br>F | 30.7<br>E | A      |                      |   |         |
| HCM 95th %tile Q(veh   | 1)       | _      |          | 18.2        | 1.2       | -      |                      |   |         |
| ·                      | '7       |        |          | 10.2        | 1.2       |        |                      |   |         |
| Notes                  |          | 4 -    |          |             | 00        |        |                      | * |         |
| -: Volume exceeds ca   | pacity   | \$: D∈ | elay exc | ceeds 3     | 00s       | +: Com | putation Not Defined | *: All major volume in                  | platoon |

| Intersection           |        |          |                   |         |             |          |          |           |           |        |       |        |            |  |
|------------------------|--------|----------|-------------------|---------|-------------|----------|----------|-----------|-----------|--------|-------|--------|------------|--|
| Int Delay, s/veh       | 945.9  |          |                   |         |             |          |          |           |           |        |       |        |            |  |
| Movement               | EBL    | EBT      | EBR               | WBL     | WBT         | WBR      | NBL      | NBT       | NBR       | SBL    | SBT   | SBR    |            |  |
| Lane Configurations    | *      | <b>^</b> | 7                 |         | 4           |          | 7        | f)        |           |        | र्स   | 7      |            |  |
| Traffic Vol, veh/h     | 59     | 8        | 47                | 93      | 3           | 73       | 18       | 2191      | 300       | 35     | 281   | 23     |            |  |
| Future Vol, veh/h      | 59     | 8        | 47                | 93      | 3           | 73       | 18       | 2191      | 300       | 35     | 281   | 23     |            |  |
| Conflicting Peds, #/hr | 0      | 0        | 0                 | 0       | 0           | 0        | 0        | 0         | 0         | 0      | 0     | 0      |            |  |
| Sign Control           | Stop   | Stop     | Stop              | Stop    | Stop        | Stop     | Free     | Free      | Free      | Free   | Free  | Free   |            |  |
| RT Channelized         | -      | -        | None              | -       | -           | None     | -        | -         | Yield     | -      | -     | None   |            |  |
| Storage Length         | 100    | -        | 100               | -       | -           | -        | 100      | -         | -         | -      | -     | 100    |            |  |
| Veh in Median Storage  | e,# -  | 0        | -                 | -       | 0           | -        | -        | 0         | -         | -      | 0     | -      |            |  |
| Grade, %               | -      | 0        | -                 | -       | 0           | -        | -        | 0         | -         | -      | 0     | -      |            |  |
| Peak Hour Factor       | 92     | 92       | 92                | 92      | 92          | 92       | 92       | 92        | 92        | 92     | 92    | 92     |            |  |
| Heavy Vehicles, %      | 2      | 2        | 2                 | 2       | 2           | 2        | 2        | 2         | 2         | 2      | 2     | 2      |            |  |
| Mvmt Flow              | 64     | 9        | 51                | 101     | 3           | 79       | 20       | 2382      | 326       | 38     | 305   | 25     |            |  |
|                        |        |          |                   |         |             |          |          |           |           |        |       |        |            |  |
| Major/Minor            | Minor2 |          | ı                 | Minor1  |             |          | Major1   |           | 1         | Major2 |       |        |            |  |
| Conflicting Flow All   | 2844   | 2803     | 305               | 3009    | 2991        | 2545     | 330      | 0         | 0         | 2382   | 0     | 0      |            |  |
| Stage 1                | 381    | 381      | -                 | 2585    | 2585        | -        | -        | _         | _         | -      | -     | -      |            |  |
| Stage 2                | 2463   | 2422     | -                 | 424     | 406         | _        | _        | -         | -         | _      | -     | _      |            |  |
| Critical Hdwy          | 7.12   | 6.52     | 6.22              | 7.12    | 6.52        | 6.22     | 4.12     | -         | -         | 4.12   | -     | -      |            |  |
| Critical Hdwy Stg 1    | 6.12   | 5.52     | -                 | 6.12    | 5.52        | -        | -        | _         | -         | -      |       | _      |            |  |
| Critical Hdwy Stg 2    | 6.12   | 5.52     | -                 | 6.12    | 5.52        | -        | -        | -         | -         | _      | -     | -      |            |  |
| Follow-up Hdwy         | 3.518  | 4.018    | 3.318             | 3.518   | 4.018       | 3.318    | 2.218    | _         | -         | 2.218  |       | _      |            |  |
| Pot Cap-1 Maneuver     | ~ 11   | 18       | 735               | ~ 8     | 14          | ~ 35     | 1229     | -         | -         | 203    | -     | -      |            |  |
| Stage 1                | 641    | 613      | -                 | ~ 35    | 52          | -        | -        | _         | -         | -      |       | _      |            |  |
| Stage 2                | ~ 41   | 63       | -                 | 608     | 598         | -        | -        | -         | -         | _      | -     | -      |            |  |
| Platoon blocked, %     |        |          |                   |         |             |          |          | _         | _         |        |       | _      |            |  |
| Mov Cap-1 Maneuver     | _      | 14       | 735               | ~ 3     | 11          | ~ 35     | 1229     | -         | -         | 203    | -     | -      |            |  |
| Mov Cap-2 Maneuver     | _      | 14       | -                 | ~ 3     | 11          | -        | -        | _         | -         | -      |       | _      |            |  |
| Stage 1                | 631    | 472      | -                 | ~ 34    | 51          | -        | -        | -         | -         | -      | -     | -      |            |  |
| Stage 2                | -      | 62       | -                 | 428     | 460         | -        | _        | _         | -         | _      |       | _      |            |  |
| 5 g                    |        |          |                   |         |             |          |          |           |           |        |       |        |            |  |
| Approach               | EB     |          |                   | WB      |             |          | NB       |           |           | SB     |       |        |            |  |
| HCM Control Delay, s   |        |          | \$ 1 <sup>-</sup> | 7516.5  |             |          | 0.1      |           |           | 2.8    |       |        |            |  |
| HCM LOS                | _      |          | ΨΙ                | F       |             |          | 0.1      |           |           | 2.0    |       |        |            |  |
| TICIVI EOS             |        |          |                   | ı       |             |          |          |           |           |        |       |        |            |  |
| Minor Lane/Major Mvn   | nt     | NBL      | NBT               | NRP     | FRI n1      | FRI n2   | EBLn3V   | VRI n1    | SBL       | SBT    | SBR   |        |            |  |
| Capacity (veh/h)       | TC .   | 1229     | -                 | NDI     | LDLIII<br>- | 14       | 735      | 5         | 203       | 301    | JUK   |        |            |  |
| HCM Lane V/C Ratio     |        | 0.016    |                   | -       |             | 0.621    |          | 36.739    |           | -      | -     |        |            |  |
| HCM Control Delay (s)  |        | 0.016    | -                 |         |             | 3 458.2  |          | 7516.5    | 26.8      | -      | -     |        |            |  |
| HCM Lane LOS           |        |          | -                 | -       | -\$         |          |          |           | 26.8<br>D | 0      |       |        |            |  |
|                        | 1      | A        | -                 | -       | -           | F<br>1.5 | 0.2      | F<br>25.1 | 0.7       | A      | -     |        |            |  |
| HCM 95th %tile Q(veh   | )      | 0        | -                 | -       | -           | 1.5      | 0.2      | 23.1      | 0.7       | -      | -     |        |            |  |
| Notes                  |        |          |                   |         |             |          |          |           |           |        |       |        |            |  |
| ~: Volume exceeds ca   | pacity | \$: De   | elay exc          | ceeds 3 | 00s         | +: Com   | putation | Not D     | efined    | *: All | major | volume | in platoon |  |

|                         | -    | •    | •    | •    | 1     | 1    |
|-------------------------|------|------|------|------|-------|------|
| Lane Group              | EBT  | EBR  | WBL  | WBT  | NBL   | NBR  |
| Lane Group Flow (vph)   | 102  | 171  | 505  | 164  | 971   | 976  |
| v/c Ratio               | 0.35 | 0.14 | 0.96 | 0.23 | 1.02  | 0.74 |
| Control Delay           | 48.9 | 2.0  | 64.2 | 25.8 | 62.9  | 7.2  |
| Queue Delay             | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  |
| Total Delay             | 48.9 | 2.0  | 64.2 | 25.8 | 62.9  | 7.2  |
| Queue Length 50th (ft)  | 71   | 11   | 331  | 84   | ~798  | 149  |
| Queue Length 95th (ft)  | 127  | 29   | #601 | 136  | #1050 | 283  |
| Internal Link Dist (ft) | 1044 |      |      | 3802 | 1526  |      |
| Turn Bay Length (ft)    |      | 200  | 300  |      |       |      |
| Base Capacity (vph)     | 293  | 1190 | 526  | 721  | 951   | 1324 |
| Starvation Cap Reductn  | 0    | 0    | 0    | 0    | 0     | 0    |
| Spillback Cap Reductn   | 0    | 0    | 0    | 0    | 0     | 0    |
| Storage Cap Reductn     | 0    | 0    | 0    | 0    | 0     | 0    |
| Reduced v/c Ratio       | 0.35 | 0.14 | 0.96 | 0.23 | 1.02  | 0.74 |

Volume exceeds capacity, queue is theoretically infinite.

Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.

|                              | <b>→</b> | •    | •         | ←         | •    | ~        |
|------------------------------|----------|------|-----------|-----------|------|----------|
| Movement                     | EBT      | EBR  | WBL       | WBT       | NBL  | NBR      |
| Lane Configurations          | <u> </u> | T T  | ሻ         | •         | ħ    | 7        |
| Traffic Volume (veh/h)       | 94       | 157  | 465       | 151       | 893  | 898      |
| Future Volume (veh/h)        | 94       | 157  | 465       | 151       | 893  | 898      |
| Initial Q (Qb), veh          | 0        | 0    | 0         | 0         | 0    | 0        |
| Ped-Bike Adj(A_pbT)          | U        | 1.00 | 1.00      | U         | 1.00 | 1.00     |
| Parking Bus, Adj             | 1.00     | 1.00 | 1.00      | 1.00      | 1.00 | 1.00     |
| Work Zone On Approach        | No       | 1.00 | 1.00      | No        | No   | 1.00     |
| Adj Sat Flow, veh/h/ln       | 1870     | 1870 | 1870      | 1870      | 1870 | 1870     |
| Adj Flow Rate, veh/h         | 1070     | 0    | 505       | 164       | 971  | 976      |
| Peak Hour Factor             | 0.92     | 0.92 | 0.92      | 0.92      | 0.92 | 0.92     |
|                              | 0.92     | 0.92 | 0.92      | 0.92      | 0.92 | 0.92     |
| Percent Heavy Veh, %         |          | 2    |           |           |      |          |
| Cap, veh/h                   | 295      | 0.00 | 544       | 725       | 957  | 1157     |
| Arrive On Green              | 0.16     | 0.00 | 0.19      | 0.39      | 0.54 | 0.54     |
| Sat Flow, veh/h              | 1870     | 1585 | 1781      | 1870      | 1781 | 1585     |
| Grp Volume(v), veh/h         | 102      | 0    | 505       | 164       | 971  | 976      |
| Grp Sat Flow(s),veh/h/ln     | 1870     | 1585 | 1781      | 1870      | 1781 | 1585     |
| Q Serve(g_s), s              | 5.8      | 0.0  | 23.1      | 7.1       | 64.5 | 51.9     |
| Cycle Q Clear(g_c), s        | 5.8      | 0.0  | 23.1      | 7.1       | 64.5 | 51.9     |
| Prop In Lane                 |          | 1.00 | 1.00      |           | 1.00 | 1.00     |
| Lane Grp Cap(c), veh/h       | 295      |      | 544       | 725       | 957  | 1157     |
| V/C Ratio(X)                 | 0.35     |      | 0.93      | 0.23      | 1.01 | 0.84     |
| Avail Cap(c_a), veh/h        | 295      |      | 544       | 725       | 957  | 1157     |
| HCM Platoon Ratio            | 1.00     | 1.00 | 1.00      | 1.00      | 1.00 | 1.00     |
| Upstream Filter(I)           | 1.00     | 0.00 | 1.00      | 1.00      | 1.00 | 1.00     |
| Uniform Delay (d), s/veh     | 45.0     | 0.0  | 36.1      | 24.7      | 27.7 | 11.4     |
| Incr Delay (d2), s/veh       | 3.2      | 0.0  | 22.5      | 0.7       | 32.6 | 5.8      |
| Initial Q Delay(d3),s/veh    | 0.0      | 0.0  | 0.0       | 0.0       | 0.0  | 0.0      |
| %ile BackOfQ(50%),veh/ln     | 2.9      | 0.0  | 6.3       | 3.2       | 33.7 | 43.2     |
| Unsig. Movement Delay, s/veh |          | 3.0  | 3.0       | J.L       | 00.7 | 13.2     |
| LnGrp Delay(d),s/veh         | 48.2     | 0.0  | 58.7      | 25.4      | 60.4 | 17.2     |
| LnGrp LOS                    | D        | 0.0  | 50.7<br>E | 23.4<br>C | F    | В        |
|                              | 102      | А    | <u> </u>  |           | 1947 | <u> </u> |
| Approach Vol, veh/h          |          | А    |           | 669       |      |          |
| Approach Delay, s/veh        | 48.2     |      |           | 50.5      | 38.8 |          |
| Approach LOS                 | D        |      |           | D         | D    |          |
| Timer - Assigned Phs         | 1        | 2    |           | 4         |      | 6        |
| Phs Duration (G+Y+Rc), s     | 27.6     | 23.4 |           | 69.0      |      | 51.0     |
| Change Period (Y+Rc), s      | 4.5      | 4.5  |           | 4.5       |      | 4.5      |
| Max Green Setting (Gmax), s  | 23.1     | 18.9 |           | 64.5      |      | 46.5     |
| Max Q Clear Time (g_c+l1), s | 25.1     | 7.8  |           | 66.5      |      | 9.1      |
| Green Ext Time (p_c), s      | 0.0      | 0.3  |           | 0.0       |      | 0.8      |
| Intersection Summary         | 0.0      | 0.0  |           | 0.0       |      | 0.0      |
|                              |          |      | 42.0      |           |      |          |
| HCM 6th Ctrl Delay           |          |      | 42.0      |           |      |          |
| HCM 6th LOS                  |          |      | D         |           |      |          |
| Notes                        |          |      |           |           |      |          |

| Intersection           |        |       |               |       |        |       |
|------------------------|--------|-------|---------------|-------|--------|-------|
| Int Delay, s/veh       | 11.8   |       |               |       |        |       |
|                        |        |       | 14/5=         | 14/55 | 05:    | 055   |
| Movement               | EBL    | EBT   | WBT           | WBR   | SBL    | SBR   |
| Lane Configurations    |        | ની    | 4             |       | W      |       |
| Traffic Vol, veh/h     | 403    | 586   | 393           | 31    | 12     | 223   |
| Future Vol, veh/h      | 403    | 586   | 393           | 31    | 12     | 223   |
| Conflicting Peds, #/hr | 0      | 0     | 0             | 0     | 0      | 0     |
| Sign Control           | Free   | Free  | Free          | Free  | Stop   | Stop  |
| RT Channelized         | -      | None  | -             | None  | -      | None  |
| Storage Length         | -      | -     | -             | -     | 0      | -     |
| Veh in Median Storage  | 2,# -  | 0     | 0             | -     | 0      | -     |
| Grade, %               | -      | 0     | 0             | -     | 0      | -     |
| Peak Hour Factor       | 92     | 92    | 92            | 92    | 92     | 92    |
| Heavy Vehicles, %      | 2      | 2     | 2             | 2     | 2      | 2     |
| Mvmt Flow              | 438    | 637   | 427           | 34    | 13     | 242   |
|                        |        |       |               |       |        |       |
| Major/Minor N          | Major1 | N     | Major2        | l N   | Minor2 |       |
| Conflicting Flow All   | 461    | 0     | viajui z<br>- |       | 1957   | 444   |
| Stage 1                | 401    | U     | -             | -     | 1957   | 444   |
|                        | -      |       |               |       | 1513   |       |
| Stage 2                | 4.12   | -     | -             | -     | 6.42   | 6.22  |
| Critical Hdwy Stg 1    | 4.12   |       | -             | -     | 5.42   |       |
| Critical Hdwy Stg 1    | -      | -     | -             | -     | 5.42   | -     |
| Critical Hdwy Stg 2    | 2.218  |       | -             | -     | 3.518  | 2 210 |
| Follow-up Hdwy         |        | -     | -             |       | 70     | 614   |
| Pot Cap-1 Maneuver     | 1100   |       | -             | -     |        |       |
| Stage 1                | -      | -     | -             | -     | 646    | -     |
| Stage 2                | -      | -     | -             | -     | 201    | -     |
| Platoon blocked, %     | 1100   | -     | -             | -     |        | 10.   |
| Mov Cap-1 Maneuver     | 1100   | -     | -             | -     | 27     | 614   |
| Mov Cap-2 Maneuver     | -      | -     | -             | -     | 27     | -     |
| Stage 1                | -      | -     | -             | -     | 248    | -     |
| Stage 2                | -      | -     | -             | -     | 201    | -     |
|                        |        |       |               |       |        |       |
| Approach               | EB     |       | WB            |       | SB     |       |
| HCM Control Delay, s   | 4.2    |       | 0             |       | 65     |       |
| HCM LOS                | 4.2    |       | U             |       | F      |       |
| I IOIVI LOS            |        |       |               |       | Г      |       |
|                        |        |       |               |       |        |       |
| Minor Lane/Major Mvm   | nt     | EBL   | EBT           | WBT   | WBR S  |       |
| Capacity (veh/h)       |        | 1100  | -             | -     | -      | 291   |
| HCM Lane V/C Ratio     |        | 0.398 | -             | -     |        | 0.878 |
| HCM Control Delay (s)  |        | 10.4  | 0             | -     | -      | 65    |
| HCM Lane LOS           |        | В     | Α             | -     | -      | F     |
| HCM 95th %tile Q(veh)  |        | 1.9   | -             | -     | -      | 7.8   |
|                        |        |       |               |       |        |       |

| Intersection           |             |           |          |               |                 |          |                      |                               |
|------------------------|-------------|-----------|----------|---------------|-----------------|----------|----------------------|-------------------------------|
| Int Delay, s/veh       | 14          |           |          |               |                 |          |                      |                               |
| Movement               | EBL         | EBR       | NBL      | NBT           | SBT             | SBR      |                      |                               |
| Lane Configurations    | LDL         | LDK.      | NDL      | ND1           | <u>361</u>      | JUK<br>7 |                      |                               |
| Traffic Vol, veh/h     | 28          | 95        | 36       | <b>T</b> 2481 | <b>T</b><br>412 | 10       |                      |                               |
| Future Vol, veh/h      | 28          | 95        | 36       | 2481          | 412             | 10       |                      |                               |
| Conflicting Peds, #/hr | 0           | 0         | 0        | 0             | 0               | 0        |                      |                               |
| Sign Control           | Stop        | Stop      | Free     | Free          | Free            | Free     |                      |                               |
| RT Channelized         | -<br>-      | None      | -        | None          | -               |          |                      |                               |
| Storage Length         | 0           | 0         | 100      | -             | _               | 100      |                      |                               |
| Veh in Median Storage  |             | -         | -        | 0             | 0               | -        |                      |                               |
| Grade, %               | 0           | _         | _        | 0             | 0               | _        |                      |                               |
| Peak Hour Factor       | 92          | 92        | 92       | 92            | 92              | 92       |                      |                               |
| Heavy Vehicles, %      | 2           | 2         | 2        | 2             | 2               | 2        |                      |                               |
| Mvmt Flow              | 30          | 103       | 39       | 2697          | 448             | 11       |                      |                               |
|                        |             | .00       | - 07     |               | 110             |          |                      |                               |
| Major/Mina-            | Minara      |           | Mole 1   |               | Aniaro          |          |                      |                               |
|                        | Minor2      |           | Major1   |               | Major2          |          |                      |                               |
| Conflicting Flow All   | 3223        | 448       | 459      | 0             | -               | 0        |                      |                               |
| Stage 1                | 448         | -         | -        | -             | -               | -        |                      |                               |
| Stage 2                | 2775        | -<br>4 22 | 112      | -             | -               | -        |                      |                               |
| Critical Hdwy          | 6.42        | 6.22      | 4.12     | -             | -               | -        |                      |                               |
| Critical Hdwy Stg 1    | 5.42        | -         | -        | -             | -               | -        |                      |                               |
| Critical Hdwy Stg 2    | 5.42        | 2 210     | 2 210    | -             | -               | -        |                      |                               |
| Follow-up Hdwy         | 3.518       | 3.318     | 2.218    | -             | -               | -        |                      |                               |
| Pot Cap-1 Maneuver     | ~ 11        | 611       | 1102     | -             | -               | -        |                      |                               |
| Stage 1                | 644         | -         | -        | -             | -               | -        |                      |                               |
| Stage 2                | 46          | -         | -        | -             | -               | -        |                      |                               |
| Platoon blocked, %     | 11          | (11       | 1100     | -             | -               | -        |                      |                               |
| Mov Cap-1 Maneuver     | ~ 11        | 611       | 1102     | -             | -               | -        |                      |                               |
| Mov Cap-2 Maneuver     | ~ 11<br>621 | -         | -        | -             | -               | -        |                      |                               |
| Stage 1                |             | -         | -        | -             | -               | -        |                      |                               |
| Stage 2                | 46          | -         | -        | -             | -               | -        |                      |                               |
|                        |             |           |          |               |                 |          |                      |                               |
| Approach               | EB          |           | NB       |               | SB              |          |                      |                               |
| HCM Control Delay, st  |             |           | 0.1      |               | 0               |          |                      |                               |
| HCM LOS                | F           |           |          |               |                 |          |                      |                               |
|                        |             |           |          |               |                 |          |                      |                               |
| Minor Lane/Major Mvn   | nt          | NBL       | NBT      | EBLn1 I       | EBLn2           | SBT      | SBR                  |                               |
| Capacity (veh/h)       |             | 1102      |          | 11            | 611             |          | -                    |                               |
| HCM Lane V/C Ratio     |             | 0.036     | _        | 2.767         |                 | _        | -                    |                               |
| HCM Control Delay (s)  | )           | 8.4       |          | 1481.8        | 12.1            | -        | -                    |                               |
| HCM Lane LOS           |             | Α         | Ψ<br>-   | F             | В               | _        | -                    |                               |
| HCM 95th %tile Q(veh   | 1)          | 0.1       | _        | 4.8           | 0.6             | -        | -                    |                               |
| ·                      | .,          | 0.1       |          | 1.0           | 0.0             |          |                      |                               |
| Notes                  |             |           |          |               |                 |          |                      |                               |
| ~: Volume exceeds ca   | pacity      | \$: De    | elay exc | ceeds 30      | 00s             | +: Com   | outation Not Defined | *: All major volume in plator |

| Intersection                        |             |        |          |         |         |        |                      |                                |  |
|-------------------------------------|-------------|--------|----------|---------|---------|--------|----------------------|--------------------------------|--|
| Int Delay, s/veh                    | 567         |        |          |         |         |        |                      |                                |  |
| Movement                            | EBL         | EBR    | NBL      | NBT     | SBT     | SBR    |                      |                                |  |
| Lane Configurations                 | **          |        |          | सी      | î,      |        |                      |                                |  |
| Traffic Vol, veh/h                  | 339         | 96     | 71       | 302     | 1065    | 560    |                      |                                |  |
| Future Vol, veh/h                   | 339         | 96     | 71       | 302     | 1065    | 560    |                      |                                |  |
| Conflicting Peds, #/hr              | 0           | 0      | 0        | 0       | 0       | 0      |                      |                                |  |
| Sign Control                        | Stop        | Stop   | Free     | Free    | Free    | Free   |                      |                                |  |
| RT Channelized                      | -           | None   | -        | None    | -       | None   |                      |                                |  |
| Storage Length                      | 0           | -      | -        | -       | -       | -      |                      |                                |  |
| Veh in Median Storage               | e,# 0       | -      | -        | 0       | 0       | -      |                      |                                |  |
| Grade, %                            | 0           | -      | -        | 0       | 0       | -      |                      |                                |  |
| Peak Hour Factor                    | 92          | 92     | 92       | 92      | 92      | 92     |                      |                                |  |
| Heavy Vehicles, %                   | 2           | 2      | 2        | 2       | 2       | 2      |                      |                                |  |
| Mvmt Flow                           | 368         | 104    | 77       | 328     | 1158    | 609    |                      |                                |  |
|                                     |             |        |          |         |         |        |                      |                                |  |
| Major/Minor                         | Minor2      | ľ      | Major1   | N       | /lajor2 |        |                      |                                |  |
| Conflicting Flow All                | 1945        |        | 1767     | 0       | -       | 0      |                      |                                |  |
| Stage 1                             | 1463        | -      | -        | -       | _       | -      |                      |                                |  |
| Stage 2                             | 482         | _      | _        | _       | _       | _      |                      |                                |  |
| Critical Hdwy                       | 6.42        | 6.22   | 4.12     | _       | _       | _      |                      |                                |  |
| Critical Hdwy Stg 1                 | 5.42        | - 0.22 | - 1.12   | _       | _       | _      |                      |                                |  |
| Critical Hdwy Stg 2                 | 5.42        | _      | _        | _       | _       | _      |                      |                                |  |
| Follow-up Hdwy                      |             | 3.318  | 2.218    | _       | _       | _      |                      |                                |  |
| Pot Cap-1 Maneuver                  | ~ 71        | 158    | 353      | _       | _       | _      |                      |                                |  |
| Stage 1                             | ~ 213       | -      | -        | _       | _       | _      |                      |                                |  |
| Stage 2                             | 621         | _      | _        | _       | _       | _      |                      |                                |  |
| Platoon blocked, %                  | 021         |        |          | _       | _       | _      |                      |                                |  |
| Mov Cap-1 Maneuver                  | ~ 52        | 158    | 353      | _       | _       | _      |                      |                                |  |
| Mov Cap-2 Maneuver                  | ~ 52        | -      | -        | _       | -       | _      |                      |                                |  |
| Stage 1                             | ~ 156       | _      | -        | -       | -       | -      |                      |                                |  |
| Stage 2                             | 621         | _      | _        | _       | _       | _      |                      |                                |  |
| - · · · · · · ·                     |             |        |          |         |         |        |                      |                                |  |
| Approach                            | EB          |        | NB       |         | SB      |        |                      |                                |  |
| HCM Control Delay, \$               |             |        | 3.4      |         | 0       |        |                      |                                |  |
| HCM LOS                             | 5100.4<br>F |        | 3.4      |         | U       |        |                      |                                |  |
| HOW LOS                             | 1           |        |          |         |         |        |                      |                                |  |
| Minor Lane/Major Mvn                | nt          | NBL    | MRT      | EBLn1   | SBT     | SBR    |                      |                                |  |
|                                     | iit         |        |          |         | JDT     | אשכ    |                      |                                |  |
| Capacity (veh/h) HCM Lane V/C Ratio |             | 353    | -        | 61      |         | -      |                      |                                |  |
|                                     | ١           | 0.219  |          | 7.751   | -       | -      |                      |                                |  |
| HCM Lang LOS                        | )           | 18     |          | 3168.4  | -       | -      |                      |                                |  |
| HCM CEth Of the Office              | .)          | С      | А        | F = 4.7 | -       | -      |                      |                                |  |
| HCM 95th %tile Q(veh                | IJ          | 0.8    | -        | 54.7    | -       | -      |                      |                                |  |
| Notes                               |             |        |          |         |         |        |                      |                                |  |
| ~: Volume exceeds ca                | pacity      | \$: D∈ | elay exc | eeds 30 | 00s     | +: Com | putation Not Defined | *: All major volume in platoon |  |

| Intersection           |        |         |         |           |          |          |
|------------------------|--------|---------|---------|-----------|----------|----------|
| Int Delay, s/veh       | 1.3    |         |         |           |          |          |
| Movement               | WBL    | WBR     | NBT     | NBR       | SBL      | SBT      |
| Lane Configurations    | ¥      | TIBIT   | 4       | HOR       | ODL      | <u> </u> |
| Traffic Vol, veh/h     | 61     | 68      | 581     | 60        | 98       | 1564     |
| Future Vol, veh/h      | 61     | 68      | 581     | 60        | 98       | 1564     |
| ·                      | 0      | 00      | 0       | 0         | 90       | 0        |
| Conflicting Peds, #/hr |        |         |         |           |          |          |
| Sign Control           | Stop   | Stop    | Free    | Free      | Free     | Free     |
| RT Channelized         | -      | None    | -       | None      | -        |          |
| Storage Length         | 0      | -       | -       | -         | -        | -        |
| Veh in Median Storage  |        | -       | 0       | -         | -        | 0        |
| Grade, %               | 0      | -       | 0       | -         | -        | 0        |
| Peak Hour Factor       | 92     | 92      | 92      | 92        | 92       | 92       |
| Heavy Vehicles, %      | 2      | 2       | 2       | 2         | 2        | 2        |
| Mvmt Flow              | 66     | 74      | 632     | 65        | 107      | 1700     |
|                        | - 00   |         | 002     | - 00      | 107      | 1,00     |
| Major/Minor            | Aincr1 |         | laier1  |           | Joiet?   |          |
|                        | Minor1 |         | /lajor1 |           | /lajor2  |          |
| Conflicting Flow All   | 2579   | 665     | 0       | 0         | 697      | 0        |
| Stage 1                | 665    | -       | -       | -         | -        | -        |
| Stage 2                | 1914   | -       | -       | -         | -        | -        |
| Critical Hdwy          | 6.42   | 6.22    | -       | -         | 4.12     | -        |
| Critical Hdwy Stg 1    | 5.42   | -       | -       | -         | _        | -        |
| Critical Hdwy Stg 2    | 5.42   | _       | _       | _         | -        | _        |
| Follow-up Hdwy         | 3.518  | 3.318   | _       | _         | 2.218    | -        |
| Pot Cap-1 Maneuver     | ~ 28   | 460     | -       | -         | 899      |          |
| •                      |        |         |         |           | 077      |          |
| Stage 1                | 511    | -       | -       | -         | -        | -        |
| Stage 2                | 127    | -       | -       | -         | -        | -        |
| Platoon blocked, %     |        |         | -       | -         |          | -        |
| Mov Cap-1 Maneuver     | 0      | 460     | -       | -         | 899      | -        |
| Mov Cap-2 Maneuver     | 0      | -       | -       | -         | -        | -        |
| Stage 1                | 511    | -       | _       | -         | -        | -        |
| Stage 2                | 0      | _       | _       | _         | _        | _        |
| Juge 2                 | U      |         |         |           |          |          |
|                        |        |         |         |           |          |          |
| Approach               | WB     |         | NB      |           | SB       |          |
| HCM Control Delay, s   | 16.2   |         | 0       |           | 0.6      |          |
| HCM LOS                | C      |         |         |           |          |          |
|                        |        |         |         |           |          |          |
|                        |        |         |         |           |          |          |
| Minor Lane/Major Mvm   | ıt     | NBT     | NBRV    | VBLn1     | SBL      | SBT      |
| Capacity (veh/h)       |        | -       | -       | 460       | 899      | -        |
| HCM Lane V/C Ratio     |        | _       | _       | 0.305     |          | _        |
| HCM Control Delay (s)  |        | _       | _       | 16.2      | 9.5      | 0        |
| HCM Lane LOS           |        |         |         | 10.2<br>C | 9.5<br>A |          |
|                        |        | -       | -       |           |          | А        |
| HCM 95th %tile Q(veh)  |        | -       | -       | 1.3       | 0.4      | -        |
| Notes                  |        |         |         |           |          |          |
| ~: Volume exceeds cap  | nacity | \$ · D≏ | lav exc | eeds 30   | )Os      | +: Com   |
| . Volume exceeds ca    | Judity | ψ. DC   | hay cat | ocus si   | 103      | 1. CUIII |

| Second   | Intersection           |                |        |          |         |        |        |          |              |        |        |       |        |            |  |
|--|------------------------|----------------|--------|----------|---------|--------|--------|----------|--------------|--------|--------|-------|--------|------------|--|
| ane Configurations are Configurations aftic Vol, vehrh 56 8 45 307 11 45 64 354 127 65 1258 81  onflicting Peds, #hr 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0   | Int Delay, s/veh       | 1822.8         |        |          |         |        |        |          |              |        |        |       |        |            |  |
| raffic Vol. verbih   | Movement               | EBL            | EBT    | EBR      | WBL     | WBT    | WBR    | NBL      | NBT          | NBR    | SBL    | SBT   | SBR    |            |  |
| raffic Vol. yer/h  | Lane Configurations    | ሻ              |        | 7        |         | 44     |        | ሻ        | î,           |        |        | र्स   | 7      |            |  |
| onflicting Peds, #/hr  | Traffic Vol, veh/h     | 56             |        |          | 307     |        | 45     | 64       |              | 127    | 65     |       |        |            |  |
| Sign Control   Slop   Slop   Slop   Slop   Slop   Slop   Slop   Free   | Future Vol, veh/h      | 56             | 8      | 45       | 307     | 11     | 45     | 64       | 354          | 127    | 65     | 1258  | 81     |            |  |
| Tchannelized - None - None - Yield - None lorage Length 100 - 100 - 100 100 - 100 100 - 100 100 - 100 100 - 10   | Conflicting Peds, #/hr | 0              | 0      | 0        | 0       | 0      | 0      | 0        | 0            | 0      | 0      | 0     | 0      |            |  |
| torage Length 100 - 100 100 100 100 eh in Median Storage, # 0 - 0 - 0 - 0 - 0 - 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  | Sign Control           | Stop           | Stop   | Stop     | Stop    | Stop   | Stop   | Free     | Free         | Free   | Free   | Free  | Free   |            |  |
| eh in Median Storage, # - 0  | RT Channelized         |                | -      | None     | -       | -      | None   | -        | -            | Yield  | -      | -     | None   |            |  |
| rade, % - 0 - 0 - 0 0 - 0 0 - 0 0 0 - 0 0 0 - 0 0 0 - 0 0 0 0 - 0  | Storage Length         | 100            | -      | 100      | -       | -      | -      | 100      | -            | -      | -      | -     | 100    |            |  |
| rade, % - 0 - 0 - 0 0 - 0 0 - 0 0 0 - 0 0 0 - 0 0 0 - 0 0 0 0 - 0  |                        | e,# -          | 0      | -        | -       | 0      | -      | -        | 0            | -      | -      | 0     | -      |            |  |
| eak Hour Factor 92 92 92 92 92 92 92 92 92 92 92 92 92   | Grade, %               |                | 0      | -        | -       | 0      | -      | -        | 0            | -      | -      | 0     | -      |            |  |
| eavy Vehicles, % 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2   | Peak Hour Factor       | 92             | 92     | 92       | 92      | 92     | 92     | 92       | 92           | 92     | 92     | 92    | 92     |            |  |
| Number   Flow  |                        | 2              | 2      | 2        | 2       | 2      | 2      | 2        | 2            | 2      | 2      | 2     | 2      |            |  |
| Algor/Minor   Minor2   Minor1   Major1   Major2   Major3   Major4   Major5   Major | Mvmt Flow              |                |        |          |         |        |        |          |              |        |        |       |        |            |  |
| Onflicting Flow All 2065 2034 1367 2176 2191 454 1455 0 0 385 0 0 0 Stage 1 1509 1509 - 594 594  |                        | 0.             | •      | .,       |         |        | • • •  | , 0      | 000          | .00    |        |       |        |            |  |
| Onflicting Flow All 2065 2034 1367 2176 2191 454 1455 0 0 385 0 0 0 Stage 1 1509 1509 - 594 594  | Major/Minor            | Minor2         |        |          | Minor1  |        |        | Major1   |              |        | Major2 |       |        |            |  |
| Stage 1  |                        |                | 2034   |          |         | 2191   |        |          | 0            |        |        | 0     | 0      |            |  |
| Stage 2   556   525   1582   1597   -     -  |                        |                |        |          |         |        |        | -        |              |        | -      |       | -      |            |  |
| ritical Hdwy 7.12 6.52 6.22 7.12 6.52 6.22 4.12 - 4.12  ritical Hdwy Stg 1 6.12 5.52 - 6.12 5.52   |                        |                |        | -        |         |        | _      | _        | _            | _      | _      | _     | _      |            |  |
| ritical Hdwy Stg 1 6.12 5.52 - 6.12 5.52   |                        |                |        | 6.22     |         |        | 6 22   | 4 12     | _            | _      | 4 12   |       | _      |            |  |
| ritical Hdwy Sig 2 6.12 5.52 - 6.12 5.52   |                        |                |        | 0.22     |         |        | 0.22   | - 1.12   | _            |        | 1.12   |       | _      |            |  |
| ollow-up Hdwy       3.518       4.018       3.318       3.518       4.018       3.318       2.218       -       2.218       -       -         ot Cap-1 Maneuver       -40       57       180       -33       45       606       465       -       1173       -       -         Stage 1       150       183       -       491       493       -        -  |                        |                |        | _        |         |        | _      | _        | _            | _      | _      |       | _      |            |  |
| ot Cap-1 Maneuver  |                        |                |        | 3 318    |         |        | 3 318  | 2 218    | _            | _      | 2 218  |       | _      |            |  |
| Stage 1       150       183       - 491       493  |                        |                |        |          |         |        |        |          |              | _      |        |       | _      |            |  |
| Stage 2   515   529   - ~ 137   166   -   -   -   -   -   -   -   -   -  | •                      |                |        | 100      |         |        | -      | -        |              | _      |        |       | _      |            |  |
| Stage 1  |                        |                |        |          |         |        |        |          |              |        |        |       |        |            |  |
| Nov Cap-1 Maneuver       ~ 16       32       180       ~ 13       25       606       465       -       1173       -       -         Nov Cap-2 Maneuver       ~ 16       32       -       ~ 13       25       - <td< td=""><td></td><td>313</td><td>327</td><td></td><td>137</td><td>100</td><td></td><td></td><td></td><td></td><td></td><td></td><td>_</td><td></td><td></td></td<>   |                        | 313            | 327    |          | 137     | 100    |        |          |              |        |        |       | _      |            |  |
| Stage 1  |                        | . 16           | 27     | 190      | . 12    | 25     | 606    | 165      | <del>-</del> | -      | 1172   |       |        |            |  |
| Stage 1       127       122       - 417       419  |                        |                |        |          |         |        | 000    | 403      | -            | _      |        |       |        |            |  |
| Stage 2         391         449         - ~62         111         - ~ - ~ - ~ - ~ - ~ - ~ - ~ - ~ - ~ - ~  |                        |                |        |          |         |        | -      | -        | -            | -      | -      | -     | -      |            |  |
| pproach EB WB NB SB  CM Control Delay, s\$ 921.8 \$ 11876.2 1.7 0.4  CM LOS F F  Innor Lane/Major Mvmt NBL NBT NBR EBLn1 EBLn2 EBLn3WBLn1 SBL SBT SBR  apacity (veh/h) 465 16 32 180 15 1173  CM Lane V/C Ratio 0.15 - 3.804 0.272 0.272 26.304 0.06  CM Control Delay (s) 14.1\$ 1746 155.2 333 1876.2 8.3 0 -  CM Lane LOS B - F F D F A A -  CM 95th %tile Q(veh) 0.5 - 8.3 0.9 1.1 50.4 0.2  otes  | •                      |                |        |          |         |        | -      | -        | -            | -      | -      | -     | -      |            |  |
| CM Control Delay, s\$ 921.8 \$ 11876.2 1.7 0.4  CM LOS F F F  Innor Lane/Major Mvmt NBL NBT NBR EBLn1 EBLn2 EBLn3WBLn1 SBL SBT SBR  apacity (veh/h) 465 16 32 180 15 1173  CM Lane V/C Ratio 0.15 3.804 0.272 0.272 26.304 0.06  CM Control Delay (s) 14.1\$ 1746 155.2 3\$ 31876.2 8.3 0 -  CM Lane LOS B - F F D F A A -  CM 95th %tile Q(veh) 0.5 - 8.3 0.9 1.1 50.4 0.2  otes  | Staye 2                | 391            | 449    | -        | ~ 02    | 111    | -      | -        | -            | -      | -      | -     | -      |            |  |
| CM Control Delay, s\$ 921.8 \$ 11876.2 1.7 0.4  CM LOS F F F  Innor Lane/Major Mvmt NBL NBT NBR EBLn1 EBLn2 EBLn3WBLn1 SBL SBT SBR  apacity (veh/h) 465 16 32 180 15 1173  CM Lane V/C Ratio 0.15 3.804 0.272 0.272 26.304 0.06  CM Control Delay (s) 14.1\$ 1746 155.2 3\$ 31876.2 8.3 0 -  CM Lane LOS B - F F D F A A -  CM 95th %tile Q(veh) 0.5 - 8.3 0.9 1.1 50.4 0.2  otes  | Annragah               | ΓD             |        |          | WD      |        |        | ND       |              |        | CD     |       |        |            |  |
| CM LOS F F    Innor Lane/Major Mvmt   NBL   NBT   NBR EBLn1 EBLn2 EBLn3WBLn1   SBL   SBT   SBR     apacity (veh/h)   |                        |                |        | Φ 1:     |         |        |        |          |              |        |        |       |        |            |  |
| Ilinor Lane/Major Mvmt   NBL   NBT   NBR EBLn1 EBLn2 EBLn3WBLn1   SBL   SBT   SBR     apacity (veh/h)   465   -   16   32   180   15   1173   -   -     CM Lane V/C Ratio   0.15   -   3.804   0.272   0.272 26.304   0.06   -   -     CM Control Delay (s)   14.1   -   - \$ 1746   155.2   32 31876.2   8.3   0   -     CM Lane LOS   B   -   F   F   D   F   A   A   -     CM 95th %tile Q(veh)   0.5   -   8.3   0.9   1.1   50.4   0.2   -   -     otes   |                        |                |        | \$ 1     |         |        |        | 1.7      |              |        | 0.4    |       |        |            |  |
| apacity (veh/h) 465 16 32 180 15 1173  CM Lane V/C Ratio 0.15 3.804 0.272 0.272 26.304 0.06  CM Control Delay (s) 14.1\$ 1746 155.2 33 31876.2 8.3 0 -  CM Lane LOS B - F F D F A A -  CM 95th %tile Q(veh) 0.5 - 8.3 0.9 1.1 50.4 0.2  otes   | HCM LOS                | F              |        |          | F       |        |        |          |              |        |        |       |        |            |  |
| apacity (veh/h) 465 16 32 180 15 1173  CM Lane V/C Ratio 0.15 3.804 0.272 0.272 26.304 0.06  CM Control Delay (s) 14.1\$ 1746 155.2 33 31876.2 8.3 0 -  CM Lane LOS B - F F D F A A -  CM 95th %tile Q(veh) 0.5 - 8.3 0.9 1.1 50.4 0.2  otes   | Minor Long/Major M.    | o <del>t</del> | NDI    | NDT      | NDD     | FDI n1 | FDI 50 | EDI 201  | VDI1         | CDI    | CDT    | CDD   |        |            |  |
| CM Lane V/C Ratio 0.15 3.804 0.272 0.272 26.304 0.06 CM Control Delay (s) 14.1\$ 1746 155.2 3\\$31876.2 8.3 0 - CM Lane LOS B - F F D F A A - CM 95th %tile Q(veh) 0.5 - 8.3 0.9 1.1 50.4 0.2 otes   |                        | III            |        |          |         |        |        |          |              |        | SRI    | SRK   |        |            |  |
| CM Control Delay (s) 14.1 \$ 1746 155.2 3 <b>3</b> 31876.2 8.3 0 - CM Lane LOS B F F D F A A - CM 95th %tile Q(veh) 0.5 - 8.3 0.9 1.1 50.4 0.2 otes  |                        |                |        | -        |         |        |        |          |              |        | -      | -     |        |            |  |
| CM Lane LOS B F F D F A A - CM 95th %tile Q(veh) 0.5 8.3 0.9 1.1 50.4 0.2 otes   |                        |                |        | -        |         |        |        |          |              |        |        | -     |        |            |  |
| CM 95th %tile Q(veh) 0.5 8.3 0.9 1.1 50.4 0.2 otes   |                        | )              |        | -        |         |        |        |          |              |        |        | -     |        |            |  |
| otes   | HCM Lane LOS           |                |        | -        | -       |        |        |          |              |        | Α      | -     |        |            |  |
|  | HCM 95th %tile Q(veh   | 1)             | 0.5    | -        | -       | 8.3    | 0.9    | 1.1      | 50.4         | 0.2    | -      | -     |        |            |  |
| : Volume exceeds capacity \$: Delay exceeds 300s +: Computation Not Defined *: All major volume in platoon   | Notes                  |                |        |          |         |        |        |          |              |        |        |       |        |            |  |
|  | ~: Volume exceeds ca   | pacity         | \$: De | elay exc | ceeds 3 | 00s    | +: Com | putation | Not D        | efined | *: All | major | volume | in platoon |  |

|                         | -    | •     | •     | •    | 1    |      |
|-------------------------|------|-------|-------|------|------|------|
| Lane Group              | EBT  | EBR   | WBL   | WBT  | NBL  | NBR  |
| Lane Group Flow (vph)   | 183  | 701   | 1563  | 138  | 317  | 468  |
| v/c Ratio               | 0.74 | 1.18  | 1.44  | 0.10 | 0.93 | 0.36 |
| Control Delay           | 70.4 | 131.5 | 225.8 | 4.9  | 83.8 | 2.6  |
| Queue Delay             | 0.0  | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  |
| Total Delay             | 70.4 | 131.5 | 225.8 | 4.9  | 83.8 | 2.6  |
| Queue Length 50th (ft)  | 146  | ~669  | ~1684 | 28   | 259  | 39   |
| Queue Length 95th (ft)  | 227  | #907  | #1996 | 47   | #450 | 76   |
| Internal Link Dist (ft) | 1044 |       |       | 3802 | 1526 |      |
| Turn Bay Length (ft)    |      | 200   | 300   |      |      |      |
| Base Capacity (vph)     | 302  | 595   | 1086  | 1422 | 342  | 1307 |
| Starvation Cap Reductn  | 0    | 0     | 0     | 0    | 0    | 0    |
| Spillback Cap Reductn   | 0    | 0     | 0     | 0    | 0    | 0    |
| Storage Cap Reductn     | 0    | 0     | 0     | 0    | 0    | 0    |
| Reduced v/c Ratio       | 0.61 | 1.18  | 1.44  | 0.10 | 0.93 | 0.36 |

Volume exceeds capacity, queue is theoretically infinite.

Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.

|                              | <b>→</b> | •    | •     | ←        | 4    | /    |
|------------------------------|----------|------|-------|----------|------|------|
| Movement                     | EBT      | EBR  | WBL   | WBT      | NBL  | NBR  |
| Lane Configurations          | <u> </u> | 7    | ሻ     | <u>₩</u> | ሻ    | 7    |
| Traffic Volume (veh/h)       | 168      | 645  | 1438  | 127      | 292  | 431  |
| Future Volume (veh/h)        | 168      | 645  | 1438  | 127      | 292  | 431  |
| Initial Q (Qb), veh          | 0        | 0    | 0     | 0        | 0    | 0    |
| Ped-Bike Adj(A_pbT)          | U        | 1.00 | 1.00  | U        | 1.00 | 1.00 |
| Parking Bus, Adj             | 1.00     | 1.00 | 1.00  | 1.00     | 1.00 | 1.00 |
| Work Zone On Approach        | No       | 1.00 | 1.00  | No       | No   | 1.00 |
| Adj Sat Flow, veh/h/ln       | 1870     | 1870 | 1870  | 1870     | 1870 | 1870 |
| Adj Flow Rate, veh/h         | 183      | 0    | 1563  | 138      | 317  | 468  |
|                              |          |      |       |          |      |      |
| Peak Hour Factor             | 0.92     | 0.92 | 0.92  | 0.92     | 0.92 | 0.92 |
| Percent Heavy Veh, %         | 2        | 2    | 2     | 2        | 2    | 2    |
| Cap, veh/h                   | 216      | 0.55 | 1117  | 1371     | 345  | 1228 |
| Arrive On Green              | 0.12     | 0.00 | 0.58  | 0.73     | 0.19 | 0.19 |
| Sat Flow, veh/h              | 1870     | 1585 | 1781  | 1870     | 1781 | 1585 |
| Grp Volume(v), veh/h         | 183      | 0    | 1563  | 138      | 317  | 468  |
| Grp Sat Flow(s), veh/h/ln    | 1870     | 1585 | 1781  | 1870     | 1781 | 1585 |
| Q Serve(g_s), s              | 11.8     | 0.0  | 71.5  | 2.6      | 21.5 | 11.6 |
| Cycle Q Clear(g_c), s        | 11.8     | 0.0  | 71.5  | 2.6      | 21.5 | 11.6 |
| Prop In Lane                 | -        | 1.00 | 1.00  |          | 1.00 | 1.00 |
| Lane Grp Cap(c), veh/h       | 216      | .,00 | 1117  | 1371     | 345  | 1228 |
| V/C Ratio(X)                 | 0.85     |      | 1.40  | 0.10     | 0.92 | 0.38 |
| Avail Cap(c_a), veh/h        | 312      |      | 1117  | 1467     | 355  | 1236 |
| HCM Platoon Ratio            | 1.00     | 1.00 | 1.00  | 1.00     | 1.00 | 1.00 |
| Upstream Filter(I)           | 1.00     | 0.00 | 1.00  | 1.00     | 1.00 | 1.00 |
|                              |          |      |       |          |      |      |
| Uniform Delay (d), s/veh     | 53.4     | 0.0  | 20.5  | 4.7      | 48.7 | 4.4  |
| Incr Delay (d2), s/veh       | 13.6     | 0.0  | 185.2 | 0.0      | 27.9 | 0.2  |
| Initial Q Delay(d3),s/veh    | 0.0      | 0.0  | 0.0   | 0.0      | 0.0  | 0.0  |
| %ile BackOfQ(50%),veh/ln     | 6.2      | 0.0  | 82.2  | 0.8      | 12.0 | 19.7 |
| Unsig. Movement Delay, s/veh |          |      |       |          |      |      |
| LnGrp Delay(d),s/veh         | 66.9     | 0.0  | 205.7 | 4.8      | 76.5 | 4.6  |
| LnGrp LOS                    | Ε        |      | F     | Α        | Е    | Α    |
| Approach Vol, veh/h          | 183      | А    |       | 1701     | 785  |      |
| Approach Delay, s/veh        | 66.9     |      |       | 189.4    | 33.7 |      |
| Approach LOS                 | Е        |      |       | F        | С    |      |
|                              |          |      |       |          |      |      |
| Timer - Assigned Phs         | 1        | 2    |       | 4        |      | 6    |
| Phs Duration (G+Y+Rc), s     | 76.0     | 18.7 |       | 28.3     |      | 94.7 |
| Change Period (Y+Rc), s      | 4.5      | 4.5  |       | 4.5      |      | 4.5  |
| Max Green Setting (Gmax), s  | 71.5     | 20.5 |       | 24.5     |      | 96.5 |
| Max Q Clear Time (g_c+l1), s | 73.5     | 13.8 |       | 23.5     |      | 4.6  |
| Green Ext Time (p_c), s      | 0.0      | 0.4  |       | 0.4      |      | 0.7  |
| Intersection Summary         |          |      |       |          |      |      |
| HCM 6th Ctrl Delay           |          |      | 135.2 |          |      |      |
| ,                            |          |      |       |          |      |      |
| HCM 6th LOS                  |          |      | F     |          |      |      |
| Notes                        |          |      |       |          |      |      |

| 337.2    |                                  |   |  |   |  |
|----------|----------------------------------|---|--|---|--|
| FRI      | FRT                              | WRT   | WRR  | SRI   | SBR  |
| LDL      |                                  |   | אטא  |   | אטכ  |
| 105      |                                  |   | 21   |   | 969  |
|          |                                  |   |  |   | 969  |
|          |                                  |   |  |   |  |
|          |                                  |   |  |   | O Ctop   |
|          |                                  |   |  |   | Stop   |
| -        | ivone                            | -   |  |   | None   |
| - "      | -                                | -   |  |   | -  |
| ⊖,# -    |                                  |   |  |   | -  |
| -        |                                  |   | -  |   | -  |
|          |                                  |   |  |   | 92   |
|          |                                  |   |  |   | 2  |
| 201      | 443                              | 649   | 37   | 28  | 1053   |
|          |                                  |   |  |   |  |
| Major1   | Λ                                | Major2  | N  | Minor?  |  |
|          |                                  |   |  |   | 4/0  |
|          | U                                |   |  |   | 668  |
| -        | -                                |   |  |   | -  |
| -        | -                                | -   |  |   | -  |
| 4.12     | -                                | -   | -  |   | 6.22   |
| -        | -                                | -   | -  |   | -  |
| -        | -                                | -   | -  |   | -  |
| 2.218    | -                                | -   | -  |   |  |
| 908      | -                                | -   | -  | 132   | ~ 458  |
| -        | -                                | -   | -  | 510   | -  |
| -        | -                                | -   | -  | 421   | -  |
|          | -                                | -   | -  |   |  |
| 908      | -                                | -   | -  | 93  | ~ 458  |
|          | _                                | _   | _  |   | -  |
|          |                                  |   |  |   | _  |
| <u>-</u> | _                                |   |  |   | _  |
| -        | -                                | -   | -  | 4Z I  | -  |
|          |                                  |   |  |   |  |
| EB       |                                  | WB  |  | SB  |  |
|          |                                  |   | \$   |   |  |
| <b>.</b> |                                  |   | Ψ  |   |  |
|          |                                  |   |  | '   |  |
|          |                                  |   |  |   |  |
|          |                                  |   |  |   |  |
| nt       | EBL                              | EBT   | WBT  | WBR:  | SBL <sub>n1</sub>  |
| nt       | EBL 908                          | EBT<br>-  | WBT<br>-   | WBR:  | SBLn1<br>415   |
| nt       | 908                              | EBT<br>-  | WBT<br>-   | -   | 415  |
|          | 908<br>0.221                     | -   | -  | -   | 415<br>2.606   |
| nt<br>)  | 908<br>0.221<br>10.1             | -<br>-<br>0   | -  | -   | 415  |
| )        | 908<br>0.221<br>10.1<br>B        | -   | -<br>-<br>-  | -   | 415<br>2.606<br>750.2<br>F   |
|          | 908<br>0.221<br>10.1             | -<br>-<br>0   | -<br>-<br>-  | -   | 415<br>2.606<br>750.2  |
| )        | 908<br>0.221<br>10.1<br>B<br>0.8 | -<br>0<br>A   | -<br>-<br>-  | -<br>-<br>-\$<br>-  | 415<br>2.606<br>750.2<br>F   |
|          | ## 185  185  0 Free              | EBL EBT  185 408 185 408 0 0 Free Free - None 0 92 92 2 2 2 201 443  Major1 | EBL EBT WBT  185 408 597 185 408 597 0 0 0 0 Free Free Free - None 0 0 92 92 92 2 2 2 201 443 649  Major1 Major2 686 0 4.12 4.12 2.218 908 908 908 908 908 | EBL EBT WBT WBR  185 408 597 34 0 0 0 0 0 Free Free Free Free - None - None - O O O 92 92 92 92 2 2 2 2 2 201 443 649 37  Major1 Major2 N 686 0 - O - O - | EBL         EBT         WBT         WBR         SBL           185         408         597         34         26           185         408         597         34         26           0         0         0         0         0           Free         Free         Free         Stop         -           None         -         None         -         0           -         0         0         -         0           -         0         0         -         0           -         0         0         -         0           92         92         92         92         92           2         2         2         2         2         2           201         443         649         37         28           Major1         Major2         Minor2         Minor2           686         0         -         0         1513           -         -         -         648           -         -         -         642           -         -         -         5.42           2.218         -         - |

| Intersection           |        |              |         |         |          |          |   |                      |
|------------------------|--------|--------------|---------|---------|----------|----------|---|----------------------|
| Int Delay, s/veh       | 13.2   |              |         |         |          |          | • |                      |
| Movement               | EBL    | EBR          | NBL     | NBT     | SBT      | SBR      |   |                      |
| Lane Configurations    | ች      | 7            | ች       | <b></b> | <b>↑</b> | 7        |   |                      |
| Traffic Vol, veh/h     | 25     | 89           | 129     | 519     | 1573     | 37       |   |                      |
| Future Vol, veh/h      | 25     | 89           | 129     | 519     | 1573     | 37       |   |                      |
| Conflicting Peds, #/hr | 0      | 0            | 0       | 0       | 0        | 0        |   |                      |
| Sign Control           | Stop   | Stop         | Free    | Free    | Free     | Free     |   |                      |
| RT Channelized         | -      | None         | -       | None    | -        |          |   |                      |
| Storage Length         | 0      | 0            | 100     | -       | -        | 100      |   |                      |
| Veh in Median Storage  |        | -            | -       | 0       | 0        | -        |   |                      |
| Grade, %               | 0      | -            | -       | 0       | 0        | -        |   |                      |
| Peak Hour Factor       | 92     | 92           | 92      | 92      | 92       | 92       |   |                      |
| Heavy Vehicles, %      | 2      | 2            | 2       | 2       | 2        | 2        |   |                      |
| Mvmt Flow              | 27     | 97           | 140     | 564     | 1710     | 40       |   |                      |
| ANIVITAL I IOVV        | ZI     | 71           | 170     | 304     | 1710     | 70       |   |                      |
| Major/Minor            | Minora |              | Aciest  |         | Acia-2   |          | ļ |                      |
|                        | Minor2 |              | Major1  |         | Major2   | _        |   |                      |
| Conflicting Flow All   | 2554   | 1710         | 1750    | 0       | -        | 0        |   |                      |
| Stage 1                | 1710   | -            | -       | -       | -        | -        |   |                      |
| Stage 2                | 844    | -            | -       | -       | -        | -        |   |                      |
| Critical Hdwy          | 6.42   | 6.22         | 4.12    | -       | -        | -        |   |                      |
| Critical Hdwy Stg 1    | 5.42   | -            | -       | -       | -        | -        |   |                      |
| Critical Hdwy Stg 2    | 5.42   | -            | -       | -       | -        | -        |   |                      |
| Follow-up Hdwy         | 3.518  |              | 2.218   | -       | -        | -        |   |                      |
| Pot Cap-1 Maneuver     | 29     | 112          | 358     | -       | -        | -        |   |                      |
| Stage 1                | 160    | -            | -       | -       | -        | -        |   |                      |
| Stage 2                | 422    | -            | -       | -       | -        | -        |   |                      |
| Platoon blocked, %     |        |              |         | -       | -        | -        |   |                      |
| Mov Cap-1 Maneuver     | ~ 18   | 112          | 358     | _       | -        | -        |   |                      |
| Mov Cap 1 Maneuver     | ~ 18   | - 112        | -       | -       | _        | _        |   |                      |
| Stage 1                | 97     | _            | _       | _       | _        | _        |   |                      |
| Stage 2                | 422    | _            | _       | _       | _        | _        |   |                      |
| Jiago Z                | 744    |              |         |         |          |          |   |                      |
|                        |        |              |         |         |          |          |   |                      |
| Approach               | EB     |              | NB      |         | SB       |          |   |                      |
| HCM Control Delay, s   |        |              | 4.3     |         | 0        |          |   |                      |
| HCM LOS                | F      |              |         |         |          |          |   |                      |
|                        |        |              |         |         |          |          |   |                      |
| Minor Lane/Major Mvn   | nt     | NBL          | MRT     | EBLn1 E | FRI n2   | SBT      | ĺ | SBR                  |
|                        | II     |              | NDII    |         |          |          |   |                      |
| Capacity (veh/h)       |        | 358          | -       | 18      | 112      | -        |   | -                    |
| HCM Lane V/C Ratio     |        | 0.392        | -       |         | 0.864    | -        |   | -                    |
| HCM Control Delay (s)  | )      | 21.4         | -\$     | 705.7   |          | -        |   | -                    |
| HCM Lane LOS           |        | С            | -       | F       | F        | -        |   | -                    |
| HCM 95th %tile Q(veh   | 1)     | 1.8          | -       | 3.8     | 5.1      | -        |   | -                    |
| Notes                  |        |              |         |         |          |          |   |                      |
| ~: Volume exceeds ca   | nacity | \$∙ Do       | lav eve | eeds 30 | 00s      | +: Com   | r | outation Not Defined |
| ~. volume exceeds ca   | pacity | <b>⊅.</b> D€ | aay exc | ccus 3  | 005      | +. CUII) | ĺ | DUIALIOH NOL Dennec  |

# PROJECTED WITH IMPROVEMENTS CONDITIONS CAPACITY ANALYSES



| ntersection                              |          |       |         |         |        |        |                      |                                |
|--|----------|-------|---------|---------|--------|--------|----------------------|--------------------------------|
| nt Delay, s/veh                          | 2377     |       |         |         |        |        |                      |                                |
| Movement                                 | EBL      | EBR   | NBL     | NBT     | SBT    | SBR    |                      |                                |
| ane Configurations                       | ¥        |       |         | 4       | f)     |        |                      |                                |
| raffic Vol, veh/h                        | 549      | 48    | 144     | 1924    | 211    | 281    |                      |                                |
| future Vol, veh/h                        | 549      | 48    | 144     | 1924    | 211    | 281    |                      |                                |
| Conflicting Peds, #/hr                   |          | 0     | 0       | 0       | 0      | 0      |                      |                                |
| Sign Control                             | Stop     | Stop  | Free    | Free    | Free   | Free   |                      |                                |
| RT Channelized                           | -        | None  | -       | None    | -      | None   |                      |                                |
| Storage Length                           | 0        | -     | _       | -       | _      | -      |                      |                                |
| /eh in Median Storag                     |          | -     | _       | 0       | 0      | -      |                      |                                |
| Grade, %                                 | 0        | _     | _       | 0       | 0      | _      |                      |                                |
| Peak Hour Factor                         | 92       | 92    | 92      | 92      | 92     | 92     |                      |                                |
| leavy Vehicles, %                        | 2        | 2     | 2       | 2       | 2      | 2      |                      |                                |
| Nymt Flow                                | 597      | 52    | 157     | 2091    | 229    | 305    |                      |                                |
| WIII FIOW                                | 397      | 52    | 107     | 2091    | 229    | 300    |                      |                                |
| Major/Minor                              | Minor2   | ľ     | Major1  | N       | Major2 |        |                      |                                |
| Conflicting Flow All                     | 2787     | 382   | 534     | 0       | -      | 0      |                      |                                |
| Stage 1                                  | 382      | -     | -       | -       | _      | -      |                      |                                |
| Stage 2                                  | 2405     | _     | _       | _       | _      | _      |                      |                                |
| Critical Hdwy                            | 6.42     | 6.22  | 4.12    | _       | _      | _      |                      |                                |
| itical Hdwy Stg 1                        | 5.42     | -     | -       | _       |        | _      |                      |                                |
| itical Hdwy Stg 2                        | 5.42     | _     | _       | _       | _      | -      |                      |                                |
| ollow-up Hdwy                            | 3.518    | 3.318 | 2 218   | _       | _      | _      |                      |                                |
| ot Cap-1 Maneuver                        | ~ 21     | 665   | 1034    | _       | _      | -      |                      |                                |
| Stage 1                                  | 690      | -     | 1001    | _       | _      | _      |                      |                                |
| Stage 2                                  | ~ 71     | _     | _       | _       | _      | _      |                      |                                |
| Platoon blocked, %                       | - 1      |       |         | _       | _      | _      |                      |                                |
| Nov Cap-1 Maneuver                       | ~ 21     | 665   | 1034    | _       | -      | _      |                      |                                |
| Nov Cap-1 Maneuver<br>Nov Cap-2 Maneuver |          | - 005 | 1004    | _       | -      |        |                      |                                |
| Stage 1                                  | 690      | -     | -       | -       | -      | -      |                      |                                |
| Stage 2                                  | ~ 71     |       |         |         |        |        |                      |                                |
| Slaye 2                                  | / 1      | -     | -       | -       | -      | -      |                      |                                |
| oproach                                  | EB       |       | NB      |         | SB     |        |                      |                                |
| CM Control Delay\$ \$                    |          |       | 0.6     |         | 0      |        |                      |                                |
| ICM LOS                                  | F        |       | 3.0     |         |        |        |                      |                                |
| OW EGG                                   | '        |       |         |         |        |        |                      |                                |
| Minor Lane/Major Mvr                     | mt       | NBL   | NBT     | EBLn1   | SBT    | SBR    |                      |                                |
| Capacity (veh/h)                         |          | 1034  | -       | 23      | _      |        |                      |                                |
| ICM Lane V/C Ratio                       |          | 0.151 | - ;     | 28.214  | -      | -      |                      |                                |
| ICM Control Delay (s                     | s)       | 9.1   |         | 2567.8  | -      | -      |                      |                                |
| ICM Lane LOS                             | 7        | A     | A       | F       | _      | _      |                      |                                |
| ICM 95th %tile Q(vel                     | h)       | 0.5   | -       | 81.2    | -      | -      |                      |                                |
| lotes                                    | ,        |       |         |         |        |        |                      |                                |
|  |          |       |         |         |        |        |                      |                                |
| : Volume exceeds ca                      | anacity. | ¢. Da | Nav ovo | eeds 30 | വാ     | L. Com | outation Not Defined | *: All major volume in platoon |

| Intersection          |        |        |          |          |           |         |                      |                     |            |
|-----------------------|--------|--------|----------|----------|-----------|---------|----------------------|---------------------|------------|
| Int Delay, s/veh      | 162.5  |        |          |          |           |         |                      |                     |            |
| Movement              | WBL    | WBR    | NBT      | NBR      | SBL       | SBT     |                      |                     |            |
| Lane Configurations   | ₩.     | VVDIX  | 1\D1     | NDIX     | JUL       | <u></u> |                      |                     |            |
| Fraffic Vol., veh/h   | 29     | 99     | 2417     | 56       | 44        | 462     |                      |                     |            |
| future Vol, veh/h     | 29     | 99     | 2417     |          |           | 462     |                      |                     |            |
|                       | 0      | 0      | 2417     | 56<br>0  | 44        | 402     |                      |                     |            |
| onflicting Peds, #/hr |        |        |          |          |           |         |                      |                     |            |
| ign Control           | Stop   | Stop   | Free     | Free     | Free      | Free    |                      |                     |            |
| T Channelized         | -      | None   | -        | None     | -         | None    |                      |                     |            |
| Storage Length        | 0      | -      | -        | -        | -         | -       |                      |                     |            |
| eh in Median Storage  |        | -      | 0        | -        | -         | 0       |                      |                     |            |
| Grade, %              | 0      | -      | 0        | -        | -         | 0       |                      |                     |            |
| eak Hour Factor       | 92     | 92     | 92       | 92       | 92        | 92      |                      |                     |            |
| eavy Vehicles, %      | 2      | 2      | 2        | 2        | 2         | 2       |                      |                     |            |
| vmt Flow              | 32     | 108    | 2627     | 61       | 48        | 502     |                      |                     |            |
|                       |        |        |          |          |           |         |                      |                     |            |
| ajor/Minor            | Minor1 |        | Major1   | N        | Major2    |         |                      |                     |            |
| onflicting Flow All   | 3256   | 2658   | 0        |          | 2688      | 0       |                      |                     |            |
| Stage 1               | 2658   |        | -        | -        | -         | -       |                      |                     |            |
| Stage 2               | 598    | -      | _        | -        | -         | -       |                      |                     |            |
| ritical Hdwy          | 6.42   | 6.22   | -        | -        | 4.12      | -       |                      |                     |            |
| itical Hdwy Stg 1     | 5.42   | -      | _        | _        | -         | _       |                      |                     |            |
| itical Hdwy Stg 2     | 5.42   | -      | _        | _        | _         | _       |                      |                     |            |
| ollow-up Hdwy         | 3.518  |        | _        | _        | 2.218     | _       |                      |                     |            |
| ot Cap-1 Maneuver     | ~ 10   | ~ 29   | _        | _        | 153       | _       |                      |                     |            |
| Stage 1               | 53     |        | _        | _        | -         | _       |                      |                     |            |
| Stage 2               | 549    | -      |          | _        | _         | _       |                      |                     |            |
| atoon blocked, %      | J 7 /  |        | _        |          |           |         |                      |                     |            |
| ov Cap-1 Maneuver     | ~ 6    | ~ 29   | _        | -        | 153       | _       |                      |                     |            |
| lov Cap-1 Maneuver    | ~ 6    | ~ 29   | -        | _        | 100       | -       |                      |                     |            |
| Stage 1               | 53     | -      | -        | -        | -         | -       |                      |                     |            |
| •                     | 310    | -      | -        | -        | -         | -       |                      |                     |            |
| Stage 2               | 310    | -      | -        | -        | -         | -       |                      |                     |            |
|                       | 1      |        |          |          |           |         |                      |                     |            |
| pproach               | WB     |        | NB       |          | SB        |         |                      |                     |            |
| CM Control Delay, \$  |        |        | 0        |          | 3.4       |         |                      |                     |            |
| CM LOS                | F      |        |          |          |           |         |                      |                     |            |
|                       |        |        |          |          |           |         |                      |                     |            |
| inor Lane/Major Mvn   | nt     | NBT    | NBRV     | VBLn1    | SBL       | SBT     |                      |                     |            |
| apacity (veh/h)       |        | -      | -        | 16       | 153       | -       |                      |                     |            |
| CM Lane V/C Ratio     |        | -      | _        | 8.696    |           | _       |                      |                     |            |
| CM Control Delay (s   | )      | -      |          | 3930.9   | 38.9      | 0       |                      |                     |            |
| CM Lane LOS           |        | _      | _ Ψ.     | F        | 50.7<br>E | A       |                      |                     |            |
| CM 95th %tile Q(veh   | 1)     | -      | _        | 18.2     | 1.2       | -       |                      |                     |            |
| ·                     | '/     |        |          | 10.2     | 1.2       |         |                      |                     |            |
| otes                  |        |        |          |          |           |         |                      |                     |            |
| Volume exceeds ca     | pacity | \$: D€ | elay exc | ceeds 30 | UOS       | +: Com  | putation Not Defined | *: All major volume | in platoon |

Queues Pleasant Creek TIS

## 3: Lewisburg Pike (SR 106/US 431) & Site Access A/Harpeth-Peytonsvilleo Robaldvith Improvements AM

|                         | •    | -    | *    | ←     | 1    | Ť     | ţ    | 4    |  |
|-------------------------|------|------|------|-------|------|-------|------|------|--|
| Lane Group              | EBL  | EBT  | EBR  | WBT   | NBL  | NBT   | SBT  | SBR  |  |
| Lane Group Flow (vph)   | 64   | 9    | 51   | 183   | 20   | 2708  | 343  | 25   |  |
| v/c Ratio               | 0.51 | 0.04 | 0.22 | 0.96  | 0.02 | 1.80  | 0.80 | 0.02 |  |
| Control Delay           | 76.9 | 59.1 | 16.8 | 112.0 | 2.6  | 382.4 | 24.1 | 0.9  |  |
| Queue Delay             | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  | 0.0  |  |
| Total Delay             | 76.9 | 59.1 | 16.8 | 112.0 | 2.6  | 382.4 | 24.1 | 0.9  |  |
| Queue Length 50th (ft)  | 60   | 8    | 0    | 161   | 3    | ~3998 | 145  | 0    |  |
| Queue Length 95th (ft)  | 113  | 27   | 42   | #322  | 8    | #4216 | #464 | 5    |  |
| Internal Link Dist (ft) |      | 742  |      | 1113  |      | 2323  | 1073 |      |  |
| Turn Bay Length (ft)    | 100  |      | 100  |       | 100  |       |      | 100  |  |
| Base Capacity (vph)     | 126  | 223  | 234  | 191   | 833  | 1503  | 428  | 1302 |  |
| Starvation Cap Reductn  | 0    | 0    | 0    | 0     | 0    | 0     | 0    | 0    |  |
| Spillback Cap Reductn   | 0    | 0    | 0    | 0     | 0    | 0     | 0    | 0    |  |
| Storage Cap Reductn     | 0    | 0    | 0    | 0     | 0    | 0     | 0    | 0    |  |
| Reduced v/c Ratio       | 0.51 | 0.04 | 0.22 | 0.96  | 0.02 | 1.80  | 0.80 | 0.02 |  |

Volume exceeds capacity, queue is theoretically infinite.

Queue shown is maximum after two cycles.

<sup># 95</sup>th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.

## 3: Lewisburg Pike (SR 106/US 431) & Site Access A/Harpeth-Peytonsvilleo Robaldvith Improvements AM

|                              | •    | <b>→</b> | •     | •     | •     | •     | 4     | <b>†</b> | ~    | <b>/</b> | <b>↓</b> | 4    |
|------------------------------|------|----------|-------|-------|-------|-------|-------|----------|------|----------|----------|------|
| Movement                     | EBL  | EBT      | EBR   | WBL   | WBT   | WBR   | NBL   | NBT      | NBR  | SBL      | SBT      | SBR  |
| Lane Configurations          | ň    | <b>†</b> | 7     |       | 4     |       | Ť     | f)       |      |          | र्स      | 7    |
| Traffic Volume (veh/h)       | 59   | 8        | 47    | 93    | 3     | 73    | 18    | 2191     | 300  | 35       | 281      | 23   |
| Future Volume (veh/h)        | 59   | 8        | 47    | 93    | 3     | 73    | 18    | 2191     | 300  | 35       | 281      | 23   |
| Initial Q (Qb), veh          | 0    | 0        | 0     | 0     | 0     | 0     | 0     | 0        | 0    | 0        | 0        | 0    |
| Ped-Bike Adj(A_pbT)          | 1.00 |          | 1.00  | 1.00  |       | 1.00  | 1.00  |          | 1.00 | 1.00     |          | 1.00 |
| Parking Bus, Adj             | 1.00 | 1.00     | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00     | 1.00 | 1.00     | 1.00     | 1.00 |
| Work Zone On Approach        |      | No       |       |       | No    |       |       | No       |      |          | No       |      |
| Adj Sat Flow, veh/h/ln       | 1870 | 1870     | 1870  | 1870  | 1870  | 1870  | 1870  | 1870     | 1870 | 1870     | 1870     | 1870 |
| Adj Flow Rate, veh/h         | 64   | 9        | 51    | 101   | 3     | 79    | 20    | 2382     | 0    | 38       | 305      | 25   |
| Peak Hour Factor             | 0.92 | 0.92     | 0.92  | 0.92  | 0.92  | 0.92  | 0.92  | 0.92     | 0.92 | 0.92     | 0.92     | 0.92 |
| Percent Heavy Veh, %         | 2    | 2        | 2     | 2     | 2     | 2     | 2     | 2        | 2    | 2        | 2        | 2    |
| Cap, veh/h                   | 174  | 224      | 190   | 130   | 4     | 73    | 48    | 1534     |      | 27       | 200      | 1300 |
| Arrive On Green              | 0.12 | 0.12     | 0.12  | 0.12  | 0.12  | 0.12  | 0.82  | 0.82     | 0.00 | 0.82     | 0.82     | 0.82 |
| Sat Flow, veh/h              | 1316 | 1870     | 1585  | 769   | 31    | 608   | 1050  | 1870     | 0    | 0        | 244      | 1585 |
| Grp Volume(v), veh/h         | 64   | 9        | 51    | 183   | 0     | 0     | 20    | 2382     | 0    | 343      | 0        | 25   |
| Grp Sat Flow(s), veh/h/ln    | 1316 | 1870     | 1585  | 1408  | 0     | 0     | 1050  | 1870     | 0    | 244      | 0        | 1585 |
| Q Serve(g_s), s              | 0.0  | 0.6      | 4.4   | 17.4  | 0.0   | 0.0   | 0.0   | 123.0    | 0.0  | 0.0      | 0.0      | 0.4  |
| Cycle Q Clear(g_c), s        | 8.6  | 0.6      | 4.4   | 18.0  | 0.0   | 0.0   | 123.0 | 123.0    | 0.0  | 123.0    | 0.0      | 0.4  |
| Prop In Lane                 | 1.00 |          | 1.00  | 0.55  | _     | 0.43  | 1.00  |          | 0.00 | 0.11     | _        | 1.00 |
| Lane Grp Cap(c), veh/h       | 174  | 224      | 190   | 206   | 0     | 0     | 48    | 1534     |      | 227      | 0        | 1300 |
| V/C Ratio(X)                 | 0.37 | 0.04     | 0.27  | 0.89  | 0.00  | 0.00  | 0.42  | 1.55     |      | 1.51     | 0.00     | 0.02 |
| Avail Cap(c_a), veh/h        | 174  | 224      | 190   | 206   | 0     | 0     | 48    | 1534     |      | 227      | 0        | 1300 |
| HCM Platoon Ratio            | 1.00 | 1.00     | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00     | 1.00 | 1.00     | 1.00     | 1.00 |
| Upstream Filter(I)           | 1.00 | 1.00     | 1.00  | 1.00  | 0.00  | 0.00  | 1.00  | 1.00     | 0.00 | 1.00     | 0.00     | 1.00 |
| Uniform Delay (d), s/veh     | 61.8 | 58.4     | 60.0  | 66.9  | 0.0   | 0.0   | 75.0  | 13.5     | 0.0  | 62.9     | 0.0      | 2.5  |
| Incr Delay (d2), s/veh       | 1.3  | 0.1      | 0.7   | 33.9  | 0.0   | 0.0   | 5.7   | 252.2    | 0.0  | 252.4    | 0.0      | 0.0  |
| Initial Q Delay(d3),s/veh    | 0.0  | 0.0      | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0      | 0.0  | 0.0      | 0.0      | 0.0  |
| %ile BackOfQ(50%),veh/ln     | 2.4  | 0.3      | 1.8   | 8.9   | 0.0   | 0.0   | 0.8   | 137.2    | 0.0  | 23.2     | 0.0      | 0.1  |
| Unsig. Movement Delay, s/veh |      | =        |       |       |       |       |       | 0.1==    |      | 0.1=0    |          |      |
| LnGrp Delay(d),s/veh         | 63.1 | 58.4     | 60.8  | 100.8 | 0.0   | 0.0   | 80.7  | 265.7    | 0.0  | 315.2    | 0.0      | 2.5  |
| LnGrp LOS                    | E    | E        | E     | F     | А     | А     | F     | F        |      | F        | А        | A    |
| Approach Vol, veh/h          |      | 124      |       |       | 183   |       |       | 2402     | Α    |          | 368      |      |
| Approach Delay, s/veh        |      | 61.8     |       |       | 100.8 |       |       | 264.1    |      |          | 294.0    |      |
| Approach LOS                 |      | Е        |       |       | F     |       |       | F        |      |          | F        |      |
| Timer - Assigned Phs         |      | 2        |       | 4     |       | 6     |       | 8        |      |          |          |      |
| Phs Duration (G+Y+Rc), s     |      | 127.5    |       | 22.5  |       | 127.5 |       | 22.5     |      |          |          |      |
| Change Period (Y+Rc), s      |      | 4.5      |       | 4.5   |       | 4.5   |       | 4.5      |      |          |          |      |
| Max Green Setting (Gmax), s  |      | 123.0    |       | 18.0  |       | 123.0 |       | 18.0     |      |          |          |      |
| Max Q Clear Time (g_c+I1), s |      | 125.0    |       | 10.6  |       | 125.0 |       | 20.0     |      |          |          |      |
| Green Ext Time (p_c), s      |      | 0.0      |       | 0.2   |       | 0.0   |       | 0.0      |      |          |          |      |
| Intersection Summary         |      |          |       |       |       |       |       |          |      |          |          |      |
| HCM 6th Ctrl Delay           |      |          | 249.8 |       |       |       |       |          |      |          |          |      |
| HCM 6th LOS                  |      |          | F     |       |       |       |       |          |      |          |          |      |
| Notes                        |      |          |       |       |       |       |       |          |      |          |          |      |

notes

|                         | -    | •    | •    | •    | 1     | ~    |
|-------------------------|------|------|------|------|-------|------|
| Lane Group              | EBT  | EBR  | WBL  | WBT  | NBL   | NBR  |
| Lane Group Flow (vph)   | 102  | 171  | 505  | 164  | 971   | 976  |
| v/c Ratio               | 0.35 | 0.14 | 0.96 | 0.23 | 1.02  | 0.74 |
| Control Delay           | 48.9 | 2.0  | 64.2 | 25.8 | 62.9  | 7.2  |
| Queue Delay             | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  |
| Total Delay             | 48.9 | 2.0  | 64.2 | 25.8 | 62.9  | 7.2  |
| Queue Length 50th (ft)  | 71   | 11   | 331  | 84   | ~798  | 149  |
| Queue Length 95th (ft)  | 127  | 29   | #601 | 136  | #1050 | 283  |
| Internal Link Dist (ft) | 1044 |      |      | 3802 | 1526  |      |
| Turn Bay Length (ft)    |      | 200  | 300  |      |       |      |
| Base Capacity (vph)     | 293  | 1190 | 526  | 721  | 951   | 1324 |
| Starvation Cap Reductn  | 0    | 0    | 0    | 0    | 0     | 0    |
| Spillback Cap Reductn   | 0    | 0    | 0    | 0    | 0     | 0    |
| Storage Cap Reductn     | 0    | 0    | 0    | 0    | 0     | 0    |
| Reduced v/c Ratio       | 0.35 | 0.14 | 0.96 | 0.23 | 1.02  | 0.74 |

Volume exceeds capacity, queue is theoretically infinite.

Queue shown is maximum after two cycles.

<sup># 95</sup>th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.

|                              | <b>→</b>  | •    | •    | <b>←</b> | •     | ~    |
|------------------------------|-----------|------|------|----------|-------|------|
| Movement                     | EBT       | EBR  | WBL  | WBT      | NBL   | NBR  |
| Lane Configurations          | <u> </u>  | 7    | ሻ    | <u>₩</u> | NDE 1 | ₹    |
| Traffic Volume (veh/h)       | 94        | 157  | 465  | 151      | 893   | 898  |
| Future Volume (veh/h)        | 94        | 157  | 465  | 151      | 893   | 898  |
| Initial Q (Qb), veh          | 0         | 0    | 0    | 0        | 073   | 070  |
|                              | U         | 1.00 | 1.00 | U        | 1.00  | 1.00 |
| Ped-Bike Adj(A_pbT)          | 1.00      |      |      | 1.00     |       |      |
| Parking Bus, Adj             | 1.00      | 1.00 | 1.00 | 1.00     | 1.00  | 1.00 |
| Work Zone On Approach        | No        | 1070 | 1070 | No       | No    | 1070 |
| Adj Sat Flow, veh/h/ln       | 1870      | 1870 | 1870 | 1870     | 1870  | 1870 |
| Adj Flow Rate, veh/h         | 102       | 0    | 505  | 164      | 971   | 976  |
| Peak Hour Factor             | 0.92      | 0.92 | 0.92 | 0.92     | 0.92  | 0.92 |
| Percent Heavy Veh, %         | 2         | 2    | 2    | 2        | 2     | 2    |
| Cap, veh/h                   | 295       |      | 544  | 725      | 957   | 1157 |
| Arrive On Green              | 0.16      | 0.00 | 0.19 | 0.39     | 0.54  | 0.54 |
| Sat Flow, veh/h              | 1870      | 1585 | 1781 | 1870     | 1781  | 1585 |
| Grp Volume(v), veh/h         | 102       | 0    | 505  | 164      | 971   | 976  |
| Grp Sat Flow(s), veh/h/ln    | 1870      | 1585 | 1781 | 1870     | 1781  | 1585 |
| Q Serve(g_s), s              | 5.8       | 0.0  | 23.1 | 7.1      | 64.5  | 51.9 |
| Cycle Q Clear(g_c), s        | 5.8       | 0.0  | 23.1 | 7.1      | 64.5  | 51.9 |
| Prop In Lane                 | 3.0       | 1.00 | 1.00 | 7.1      | 1.00  | 1.00 |
| Lane Grp Cap(c), veh/h       | 295       | 1.00 | 544  | 725      | 957   | 1157 |
| V/C Ratio(X)                 | 0.35      |      | 0.93 | 0.23     | 1.01  | 0.84 |
|                              |           |      |      |          | 957   | 1157 |
| Avail Cap(c_a), veh/h        | 295       | 1.00 | 544  | 725      |       |      |
| HCM Platoon Ratio            | 1.00      | 1.00 | 1.00 | 1.00     | 1.00  | 1.00 |
| Upstream Filter(I)           | 1.00      | 0.00 | 1.00 | 1.00     | 1.00  | 1.00 |
| Uniform Delay (d), s/veh     | 45.0      | 0.0  | 36.1 | 24.7     | 27.7  | 11.4 |
| Incr Delay (d2), s/veh       | 3.2       | 0.0  | 22.5 | 0.7      | 32.6  | 5.8  |
| Initial Q Delay(d3),s/veh    | 0.0       | 0.0  | 0.0  | 0.0      | 0.0   | 0.0  |
| %ile BackOfQ(50%),veh/ln     | 2.9       | 0.0  | 6.3  | 3.2      | 33.7  | 43.2 |
| Unsig. Movement Delay, s/veh |           |      |      |          |       |      |
| LnGrp Delay(d),s/veh         | 48.2      | 0.0  | 58.7 | 25.4     | 60.4  | 17.2 |
| LnGrp LOS                    | D         |      | Е    | С        | F     | В    |
| Approach Vol, veh/h          | 102       | А    |      | 669      | 1947  |      |
| Approach Delay, s/veh        | 48.2      | - 1  |      | 50.5     | 38.8  |      |
| Approach LOS                 | 40.2<br>D |      |      | D        | D     |      |
|                              | D D       |      |      | D        | D     |      |
| Timer - Assigned Phs         | 1         | 2    |      | 4        |       | 6    |
| Phs Duration (G+Y+Rc), s     | 27.6      | 23.4 |      | 69.0     |       | 51.0 |
| Change Period (Y+Rc), s      | 4.5       | 4.5  |      | 4.5      |       | 4.5  |
| Max Green Setting (Gmax), s  | 23.1      | 18.9 |      | 64.5     |       | 46.5 |
| Max Q Clear Time (g_c+l1), s | 25.1      | 7.8  |      | 66.5     |       | 9.1  |
| Green Ext Time (p_c), s      | 0.0       | 0.3  |      | 0.0      |       | 0.8  |
| Intersection Summary         | 0.0       | 0.0  |      | 0.0      |       | 0.0  |
|                              |           |      | 40.0 |          |       |      |
| HCM 6th Ctrl Delay           |           |      | 42.0 |          |       |      |
| HCM 6th LOS                  |           |      | D    |          |       |      |
| Notes                        |           |      |      |          |       |      |

| Intersection           |             |           |                  |      |           |        |
|------------------------|-------------|-----------|------------------|------|-----------|--------|
| Int Delay, s/veh       | 11.8        |           |                  |      |           |        |
| Movement               | EBL         | EBT       | WBT              | WBR  | SBL       | SBR    |
| Lane Configurations    | LDL         | <u>∟Б</u> | vvb1<br><b>♣</b> | NOI  | JDL<br>W  | SDIK   |
| Traffic Vol, veh/h     | 403         | 586       | 393              | 31   | <b>12</b> | 223    |
| Future Vol, veh/h      | 403         | 586       | 393              | 31   | 12        | 223    |
| Conflicting Peds, #/hr |             | 000       | 393              | 0    | 0         | 223    |
| Sign Control           | Free        | Free      | Free             | Free | Stop      | Stop   |
| RT Channelized         | riee<br>-   | None      | -                | None | 310p      | None   |
| Storage Length         | -           | NONE -    | _                | -    | 0         | NONE - |
| Veh in Median Storag   | ne.# -      | 0         | 0                |      | 0         | _      |
| Grade, %               | ye,# -<br>- | 0         | 0                | -    | 0         | -      |
| Peak Hour Factor       | 92          | 92        | 92               | 92   | 92        | 92     |
| Heavy Vehicles, %      | 2           | 2         | 2                | 2    | 2         | 2      |
| Mvmt Flow              | 438         | 637       | 427              | 34   | 13        | 242    |
| IVIVIIIL I IOW         | 430         | 037       | 427              | 34   | 13        | 242    |
|                        |             |           |                  |      |           |        |
| Major/Minor            | Major1      |           | Major2           |      | Vinor2    |        |
| Conflicting Flow All   | 461         | 0         | -                | 0    | 1957      | 444    |
| Stage 1                | -           | -         | -                | -    | 444       | -      |
| Stage 2                | -           | -         | -                | -    | 1513      | -      |
| Critical Hdwy          | 4.12        | -         | -                | -    | 6.42      | 6.22   |
| Critical Hdwy Stg 1    | -           | -         | -                | -    | 5.42      | -      |
| Critical Hdwy Stg 2    | -           | -         | -                | -    | 5.42      | -      |
| Follow-up Hdwy         | 2.218       | -         | -                | -    | 3.518     | 3.318  |
| Pot Cap-1 Maneuver     | 1100        | -         | -                | -    | 70        | 614    |
| Stage 1                | -           | -         | -                | -    | 646       | -      |
| Stage 2                | -           | -         | -                | -    | 201       | -      |
| Platoon blocked, %     |             | -         | -                | -    |           |        |
| Mov Cap-1 Maneuve      | r 1100      | -         | -                | -    | 27        | 614    |
| Mov Cap-2 Maneuve      | r -         | -         | -                | -    | 27        | -      |
| Stage 1                | -           | -         | -                | -    | 248       | -      |
| Stage 2                | -           | -         | -                | -    | 201       | -      |
|                        |             |           |                  |      |           |        |
| Approach               | EB          |           | WB               |      | SB        |        |
| HCM Control Delay,     |             |           | 0                |      | 65        |        |
| HCM LOS                | 3 4.2       |           | U                |      | F         |        |
| HOW LUS                |             |           |                  |      | Г         |        |
|                        |             |           |                  |      |           |        |
| Minor Lane/Major Mv    | mt          | EBL       | EBT              | WBT  | WBR S     | SBLn1  |
| Capacity (veh/h)       |             | 1100      | -                | -    | -         | 291    |
| HOME THE DELLA         |             | 0.200     |                  |      |           | 0.070  |

65

F

7.8

- 0.878

0

Α

0.398

10.4

В

1.9

HCM Lane V/C Ratio

HCM Lane LOS

HCM Control Delay (s)

HCM 95th %tile Q(veh)

| Intersection                        |        |          |          |             |           |          |                      |                                |
|-------------------------------------|--------|----------|----------|-------------|-----------|----------|----------------------|--------------------------------|
| Int Delay, s/veh                    | 14     |          |          |             |           |          |                      |                                |
| Movement                            | EBL    | EBR      | NBL      | NBT         | SBT       | SBR      |                      |                                |
| Lane Configurations                 | ሻ      | 7        | ሻ        | <b>†</b>    | <u> </u>  | 7        |                      |                                |
| Traffic Vol, veh/h                  | 28     | 95       | 36       | 2481        | 412       | 10       |                      |                                |
| Future Vol, veh/h                   | 28     | 95       | 36       | 2481        | 412       | 10       |                      |                                |
| Conflicting Peds, #/hr              | 0      | 0        | 0        | 0           | 0         | 0        |                      |                                |
| Sign Control                        | Stop   | Stop     | Free     | Free        | Free      | Free     |                      |                                |
| RT Channelized                      |        | None     | -        | None        | -         | None     |                      |                                |
| Storage Length                      | 0      | 0        | 100      | -           | -         | 100      |                      |                                |
| Veh in Median Storage               | e, # 0 | -        | -        | 0           | 0         | -        |                      |                                |
| Grade, %                            | 0      | -        | -        | 0           | 0         | -        |                      |                                |
| Peak Hour Factor                    | 92     | 92       | 92       | 92          | 92        | 92       |                      |                                |
| Heavy Vehicles, %                   | 2      | 2        | 2        | 2           | 2         | 2        |                      |                                |
| Mvmt Flow                           | 30     | 103      | 39       | 2697        | 448       | 11       |                      |                                |
|                                     |        |          |          |             |           |          |                      |                                |
| Major/Minor                         | Minor2 |          | Major1   | 1           | Major2    |          |                      |                                |
| Conflicting Flow All                | 3223   | 448      | 459      | 0           | -         | 0        |                      |                                |
| Stage 1                             | 448    | -        | -        | -           | -         | -        |                      |                                |
| Stage 2                             | 2775   | -        | -        | -           | -         | -        |                      |                                |
| Critical Hdwy                       | 6.42   | 6.22     | 4.12     | -           | -         | -        |                      |                                |
| Critical Hdwy Stg 1                 | 5.42   |          |          | -           | -         | _        |                      |                                |
| Critical Hdwy Stg 2                 | 5.42   | -        | -        | -           | -         | -        |                      |                                |
| Follow-up Hdwy                      |        | 3.318    | 2.218    | _           | _         | -        |                      |                                |
| Pot Cap-1 Maneuver                  | ~ 11   |          | 1102     | _           | -         | -        |                      |                                |
| Stage 1                             | 644    | -        | -        | -           | -         | -        |                      |                                |
| Stage 2                             | 46     | -        | -        | -           | -         | -        |                      |                                |
| Platoon blocked, %                  |        |          |          | -           | -         | -        |                      |                                |
| Mov Cap-1 Maneuver                  | ~ 11   | 611      | 1102     | -           | -         | -        |                      |                                |
| Mov Cap-2 Maneuver                  | ~ 11   | -        | -        | -           | -         | -        |                      |                                |
| Stage 1                             | 621    | -        | -        | -           | -         | -        |                      |                                |
| Stage 2                             | 46     | -        | -        | -           | -         | -        |                      |                                |
|                                     |        |          |          |             |           |          |                      |                                |
| Approach                            | EB     |          | NB       |             | SB        |          |                      |                                |
| HCM Control Delay, s\$              |        |          | 0.1      |             | 0         |          |                      |                                |
| HCM LOS                             | F      |          | 0.1      |             |           |          |                      |                                |
| TOW EOU                             | '      |          |          |             |           |          |                      |                                |
| Minor Lane/Major Mvm                | nt     | NBL      | NRT      | EBLn1       | FRI n2    | SBT      | SBR                  |                                |
|                                     | IL     | 1102     | - 1001   | 11          | 611       | <u> </u> | -                    |                                |
| Capacity (veh/h) HCM Lane V/C Ratio |        | 0.036    |          | 2.767       |           | -        | -                    |                                |
| HCM Control Delay (s)               |        | 8.4      |          | 1481.8      | 12.1      | -        | <u>-</u>             |                                |
| HCM Lane LOS                        |        | 0.4<br>A | Φ        | 1401.0<br>F | 12.1<br>B | -        | -                    |                                |
| HCM 95th %tile Q(veh                | )      | 0.1      | -        | 4.8         | 0.6       | -        | <u> </u>             |                                |
|                                     | )      | 0.1      |          | 4.0         | 0.0       | _        | •                    |                                |
| Notes                               |        |          |          |             |           |          |                      |                                |
| ~: Volume exceeds ca                | pacity | \$: De   | elay exc | ceeds 3     | 00s       | +: Com   | outation Not Defined | *: All major volume in platoon |

| Intersection           |        |        |          |          |         |        |
|------------------------|--------|--------|----------|----------|---------|--------|
| Int Delay, s/veh       | 567    |        |          |          |         |        |
| Movement               | EBL    | EBR    | NBL      | NBT      | SBT     | SBR    |
| Lane Configurations    | ¥      |        |          | 4        | ĵ»      |        |
| Traffic Vol, veh/h     | 339    | 96     | 71       | 302      | 1065    | 560    |
| Future Vol, veh/h      | 339    | 96     | 71       | 302      | 1065    | 560    |
| Conflicting Peds, #/hr | 0      | 0      | 0        | 0        | 0       | 0      |
| Sign Control           | Stop   | Stop   | Free     | Free     | Free    | Free   |
| RT Channelized         | -      | None   | -        | None     | -       | None   |
| Storage Length         | 0      | -      | -        | -        | -       | -      |
| Veh in Median Storage  |        | -      | -        | 0        | 0       | -      |
| Grade, %               | 0      | -      | -        | 0        | 0       | - 02   |
| Peak Hour Factor       | 92     | 92     | 92       | 92       | 92      | 92     |
| Heavy Vehicles, %      | 2      | 2      | 2        | 2        | 1150    | 2      |
| Mvmt Flow              | 368    | 104    | 77       | 328      | 1158    | 609    |
|                        |        |        |          |          |         |        |
|                        | Minor2 |        | Major1   |          | /lajor2 |        |
| Conflicting Flow All   | 1945   | 1463   | 1767     | 0        | -       | 0      |
| Stage 1                | 1463   | -      | -        | -        | -       | -      |
| Stage 2                | 482    | -      | -        | -        | -       | -      |
| Critical Hdwy          | 6.42   | 6.22   | 4.12     | -        | -       | -      |
| Critical Hdwy Stg 1    | 5.42   | -      | -        | -        | -       | -      |
| Critical Hdwy Stg 2    | 5.42   | -      | -        | -        | -       | -      |
| Follow-up Hdwy         |        | 3.318  |          | -        | -       | -      |
| Pot Cap-1 Maneuver     | ~ 71   | 158    | 353      | -        | -       | -      |
| Stage 1                | ~ 213  | -      | -        | -        | -       | -      |
| Stage 2                | 621    | -      | -        | -        | -       | -      |
| Platoon blocked, %     |        |        |          | -        | -       | -      |
| Mov Cap-1 Maneuver     | ~ 52   | 158    | 353      | -        | -       | -      |
| Mov Cap-2 Maneuver     |        | -      | -        | -        | -       | -      |
| Stage 1                | ~ 156  | -      | -        | -        | -       | -      |
| Stage 2                | 621    | -      | -        | -        | -       | -      |
|                        |        |        |          |          |         |        |
| Approach               | EB     |        | NB       |          | SB      |        |
| HCM Control Delay, \$  |        |        | 3.4      |          | 0       |        |
| HCM LOS                | F      |        |          |          |         |        |
|                        |        |        |          |          |         |        |
| Minor Long /Minor Ma   |        | NDI    | NDT      | EDL - 1  | CDT     | CDD    |
| Minor Lane/Major Mvn   | 1[     | NBL    | NRII     | EBLn1    | SBT     | SBR    |
| Capacity (veh/h)       |        | 353    | -        | 61       | -       | -      |
| HCM Lane V/C Ratio     |        | 0.219  |          | 7.751    | -       | -      |
| HCM Control Delay (s)  |        | 18     |          | 3168.4   | -       | -      |
| HCM Lane LOS           | `      | С      | Α        | F        | -       | -      |
| HCM 95th %tile Q(veh   | )      | 8.0    | -        | 54.7     | -       | -      |
| Notes                  |        |        |          |          |         |        |
| ~: Volume exceeds ca   | pacity | \$: De | elay exc | ceeds 30 | 00s     | +: Com |
|                        |        |        |          |          |         |        |

| Intersection                        |           |              |              |              |           |           |
|-------------------------------------|-----------|--------------|--------------|--------------|-----------|-----------|
| Int Delay, s/veh                    | 1.3       |              |              |              |           |           |
|                                     |           | WIDD         | NDT          | NDD          | CDI       | CDT       |
| Movement Lang Configurations        | WBL       | WBR          | NBT          | NBR          | SBL       | SBT       |
| Lane Configurations                 | <b>\</b>  | 40           | <b>þ</b>     | 40           | 00        | 1541      |
| Traffic Vol., veh/h                 | 61        | 68           | 581          | 60           | 98        | 1564      |
| Future Vol, veh/h                   | 61        | 68           | 581          | 60           | 98<br>0   | 1564      |
| Conflicting Peds, #/hr              |           |              | 0<br>Eroo    | 0<br>Eroo    |           | 0<br>Eroo |
| Sign Control<br>RT Channelized      | Stop      | Stop<br>None | Free         | Free         | Free<br>- | Free      |
|                                     | 0         | None -       | -            | None         |           | None      |
| Storage Length Veh in Median Storag |           | -            | 0            | -            | -         | 0         |
|                                     |           |              |              |              |           |           |
| Grade, %                            | 0         | - 00         | 0            | -            | -         | 0         |
| Peak Hour Factor                    | 92        | 92           | 92           | 92           | 92        | 92        |
| Heavy Vehicles, %                   | 2         | 2            | 2            | 2            | 2         | 2         |
| Mvmt Flow                           | 66        | 74           | 632          | 65           | 107       | 1700      |
|                                     |           |              |              |              |           |           |
| Major/Minor                         | Minor1    | N            | /lajor1      | 1            | Major2    |           |
| Conflicting Flow All                | 2579      | 665          | 0            | 0            | 697       | 0         |
| Stage 1                             | 665       | -            | -            | -            | -         | -         |
| Stage 2                             | 1914      | -            | _            | _            | _         | -         |
| Critical Hdwy                       | 6.42      | 6.22         | _            | _            | 4.12      | _         |
| Critical Hdwy Stg 1                 | 5.42      | -            | _            | _            |           | _         |
| Critical Hdwy Stg 2                 | 5.42      | -            | _            | _            | _         | _         |
| Follow-up Hdwy                      | 3.518     |              | _            | _            | 2.218     | _         |
| Pot Cap-1 Maneuver                  | ~ 28      | 460          | _            | _            | 899       | _         |
| Stage 1                             | 511       | -            | _            | _            | -         | _         |
| Stage 2                             | 127       | _            | <del>-</del> | <del>-</del> | _         | _         |
| Platoon blocked, %                  | 127       | -            | _            | -            | -         | _         |
|                                     | . 0       | 460          | -            | -            | 899       |           |
| Mov Cap-1 Maneuver                  |           |              | -            | -            |           | -         |
| Mov Cap-2 Maneuver                  |           | -            | -            | -            | -         | -         |
| Stage 1                             | 511       | -            | -            | -            | -         | -         |
| Stage 2                             | 0         | -            | -            | -            | -         | -         |
|                                     |           |              |              |              |           |           |
| Approach                            | WB        |              | NB           |              | SB        |           |
| HCM Control Delay, s                | 16.2      |              | 0            |              | 0.6       |           |
| HCM LOS                             | С         |              |              |              |           |           |
|                                     |           |              |              |              |           |           |
| NA: 1 /NA: NA                       |           | NDT          | NDDV         | VDI 4        | CDI       | CDT       |
| Minor Lane/Major Mvi                | mt        | NBT          | NRKA         | VBLn1        | SBL       | SBT       |
| Capacity (veh/h)                    |           | -            | -            | 460          | 899       | -         |
| HCM Lane V/C Ratio                  |           | -            | -            | 0.305        |           | -         |
| HCM Control Delay (s                | s)        | -            | -            | 16.2         | 9.5       | 0         |
| HCM Lane LOS                        |           | -            | -            | С            | Α         | Α         |
| HCM 95th %tile Q(vel                | h)        | -            | -            | 1.3          | 0.4       | -         |
| Notes                               |           |              |              |              |           |           |
|                                     | an a aitu | ¢. Do        | Jav. ava     | 20 do 20     | 200       | Com       |
| ~: Volume exceeds ca                | apacity   | \$: De       | elay exc     | eeds 30      | JUS       | +: Com    |

Queues Pleasant Creek TIS

#### 3: Lewisburg Pike (SR 106/US 431) & Site Access A/Harpeth-Peytonsvilleo Robaldvith Improvements PM

|                         | •    | -    | •    | •     | 1     | Ť    | ¥     | 4    |  |
|-------------------------|------|------|------|-------|-------|------|-------|------|--|
| Lane Group              | EBL  | EBT  | EBR  | WBT   | NBL   | NBT  | SBT   | SBR  |  |
| Lane Group Flow (vph)   | 61   | 9    | 49   | 395   | 70    | 523  | 1438  | 88   |  |
| v/c Ratio               | 0.18 | 0.02 | 0.12 | 1.21  | 1.23  | 0.42 | 1.17  | 0.08 |  |
| Control Delay           | 41.6 | 38.6 | 11.1 | 160.8 | 219.1 | 9.0  | 107.4 | 4.5  |  |
| Queue Delay             | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0  | 0.0   | 0.0  |  |
| Total Delay             | 41.6 | 38.6 | 11.1 | 160.8 | 219.1 | 9.0  | 107.4 | 4.5  |  |
| Queue Length 50th (ft)  | 41   | 6    | 0    | ~403  | ~73   | 159  | ~1441 | 15   |  |
| Queue Length 95th (ft)  | 82   | 21   | 34   | #608  | #127  | 223  | #1706 | 31   |  |
| Internal Link Dist (ft) |      | 742  |      | 1113  |       | 2323 | 1073  |      |  |
| Turn Bay Length (ft)    | 100  |      | 100  |       | 100   |      |       | 100  |  |
| Base Capacity (vph)     | 338  | 437  | 408  | 327   | 57    | 1254 | 1229  | 1110 |  |
| Starvation Cap Reductn  | 0    | 0    | 0    | 0     | 0     | 0    | 0     | 0    |  |
| Spillback Cap Reductn   | 0    | 0    | 0    | 0     | 0     | 0    | 0     | 0    |  |
| Storage Cap Reductn     | 0    | 0    | 0    | 0     | 0     | 0    | 0     | 0    |  |
| Reduced v/c Ratio       | 0.18 | 0.02 | 0.12 | 1.21  | 1.23  | 0.42 | 1.17  | 0.08 |  |
|                         |      |      |      |       |       |      |       |      |  |

#### Intersection Summary

Volume exceeds capacity, queue is theoretically infinite.

Queue shown is maximum after two cycles.

<sup># 95</sup>th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.

### 3: Lewisburg Pike (SR 106/US 431) & Site Access A/Harpeth-Peytonsvilleo Robaldvith Improvements PM

|                              | ۶    | <b>→</b>  | •    | •     | <b>←</b> | •    | 4         | <b>†</b> | ~    | <b>&gt;</b> | ļ      | 4    |
|------------------------------|------|-----------|------|-------|----------|------|-----------|----------|------|-------------|--------|------|
| Movement                     | EBL  | EBT       | EBR  | WBL   | WBT      | WBR  | NBL       | NBT      | NBR  | SBL         | SBT    | SBR  |
| Lane Configurations          | ň    | <b>†</b>  | 7    |       | 4        |      | Ť         | ĵ»       |      |             | 4      | 7    |
| Traffic Volume (veh/h)       | 56   | 8         | 45   | 307   | 11       | 45   | 64        | 354      | 127  | 65          | 1258   | 81   |
| Future Volume (veh/h)        | 56   | 8         | 45   | 307   | 11       | 45   | 64        | 354      | 127  | 65          | 1258   | 81   |
| Initial Q (Qb), veh          | 0    | 0         | 0    | 0     | 0        | 0    | 0         | 0        | 0    | 0           | 0      | 0    |
| Ped-Bike Adj(A_pbT)          | 1.00 |           | 1.00 | 1.00  |          | 1.00 | 1.00      |          | 1.00 | 1.00        |        | 1.00 |
| Parking Bus, Adj             | 1.00 | 1.00      | 1.00 | 1.00  | 1.00     | 1.00 | 1.00      | 1.00     | 1.00 | 1.00        | 1.00   | 1.00 |
| Work Zone On Approach        |      | No        |      |       | No       |      |           | No       |      |             | No     |      |
| Adj Sat Flow, veh/h/ln       | 1870 | 1870      | 1870 | 1870  | 1870     | 1870 | 1870      | 1870     | 1870 | 1870        | 1870   | 1870 |
| Adj Flow Rate, veh/h         | 61   | 9         | 49   | 334   | 12       | 49   | 70        | 385      | 0    | 71          | 1367   | 88   |
| Peak Hour Factor             | 0.92 | 0.92      | 0.92 | 0.92  | 0.92     | 0.92 | 0.92      | 0.92     | 0.92 | 0.92        | 0.92   | 0.92 |
| Percent Heavy Veh, %         | 2    | 2         | 2    | 2     | 2        | 2    | 2         | 2        | 2    | 2           | 2      | 2    |
| Cap, veh/h                   | 426  | 439       | 372  | 321   | 10       | 40   | 145       | 1302     |      | 81          | 1204   | 1103 |
| Arrive On Green              | 0.23 | 0.23      | 0.23 | 0.23  | 0.23     | 0.23 | 0.70      | 0.70     | 0.00 | 0.70        | 0.70   | 0.70 |
| Sat Flow, veh/h              | 1341 | 1870      | 1585 | 1151  | 41       | 169  | 398       | 1870     | 0    | 75          | 1730   | 1585 |
| Grp Volume(v), veh/h         | 61   | 9         | 49   | 395   | 0        | 0    | 70        | 385      | 0    | 1438        | 0      | 88   |
| Grp Sat Flow(s), veh/h/ln    | 1341 | 1870      | 1585 | 1361  | 0        | 0    | 398       | 1870     | 0    | 1805        | 0      | 1585 |
| Q Serve(g_s), s              | 0.0  | 0.5       | 3.2  | 30.0  | 0.0      | 0.0  | 0.0       | 10.2     | 0.0  | 76.5        | 0.0    | 2.3  |
| Cycle Q Clear(g_c), s        | 4.0  | 0.5       | 3.2  | 30.5  | 0.0      | 0.0  | 47.5      | 10.2     | 0.0  | 90.5        | 0.0    | 2.3  |
| Prop In Lane                 | 1.00 | 0.5       | 1.00 | 0.85  | 0.0      | 0.12 | 1.00      | 10.2     | 0.00 | 0.05        | 0.0    | 1.00 |
| Lane Grp Cap(c), veh/h       | 426  | 439       | 372  | 370   | 0        | 0.12 | 145       | 1302     | 0.00 | 1286        | 0      | 1103 |
| V/C Ratio(X)                 | 0.14 | 0.02      | 0.13 | 1.07  | 0.00     | 0.00 | 0.48      | 0.30     |      | 1.12        | 0.00   | 0.08 |
| Avail Cap(c_a), veh/h        | 426  | 439       | 372  | 370   | 0.00     | 0.00 | 145       | 1302     |      | 1286        | 0.00   | 1103 |
| HCM Platoon Ratio            | 1.00 | 1.00      | 1.00 | 1.00  | 1.00     | 1.00 | 1.00      | 1.00     | 1.00 | 1.00        | 1.00   | 1.00 |
| Upstream Filter(I)           | 1.00 | 1.00      | 1.00 | 1.00  | 0.00     | 0.00 | 1.00      | 1.00     | 0.00 | 1.00        | 0.00   | 1.00 |
| Uniform Delay (d), s/veh     | 39.6 | 38.3      | 39.3 | 52.1  | 0.00     | 0.00 | 13.2      | 7.6      | 0.00 | 20.5        | 0.00   | 6.4  |
| Incr Delay (d2), s/veh       | 0.2  | 0.0       | 0.2  | 65.5  | 0.0      | 0.0  | 2.5       | 0.1      | 0.0  | 64.3        | 0.0    | 0.0  |
| Initial Q Delay(d3),s/veh    | 0.2  | 0.0       | 0.2  | 0.0   | 0.0      | 0.0  | 0.0       | 0.0      | 0.0  | 0.0         | 0.0    | 0.0  |
| %ile BackOfQ(50%),veh/ln     | 1.6  | 0.0       | 1.3  | 18.7  | 0.0      | 0.0  | 1.2       | 3.4      | 0.0  | 53.9        | 0.0    | 0.0  |
| Unsig. Movement Delay, s/veh |      | 0.2       | 1.3  | 10.7  | 0.0      | 0.0  | 1.2       | 3.4      | 0.0  | 55.9        | 0.0    | 0.7  |
|                              | 39.8 | 38.3      | 39.5 | 117.5 | 0.0      | 0.0  | 15.7      | 7.7      | 0.0  | 84.8        | 0.0    | 6.4  |
| LnGrp Delay(d),s/veh         |      | 30.3<br>D |      | F     |          |      | 15.7<br>B |          | 0.0  | 04.0<br>F   |        |      |
| LnGrp LOS                    | D    |           | D    | Г     | A        | A    | Б         | A        | Δ    | Г           | A 150/ | A    |
| Approach Vol, veh/h          |      | 119       |      |       | 395      |      |           | 455      | А    |             | 1526   |      |
| Approach Delay, s/veh        |      | 39.5      |      |       | 117.5    |      |           | 8.9      |      |             | 80.3   |      |
| Approach LOS                 |      | D         |      |       | F        |      |           | А        |      |             | F      |      |
| Timer - Assigned Phs         |      | 2         |      | 4     |          | 6    |           | 8        |      |             |        |      |
| Phs Duration (G+Y+Rc), s     |      | 95.0      |      | 35.0  |          | 95.0 |           | 35.0     |      |             |        |      |
| Change Period (Y+Rc), s      |      | 4.5       |      | 4.5   |          | 4.5  |           | 4.5      |      |             |        |      |
| Max Green Setting (Gmax), s  |      | 90.5      |      | 30.5  |          | 90.5 |           | 30.5     |      |             |        |      |
| Max Q Clear Time (g_c+l1), s |      | 49.5      |      | 6.0   |          | 92.5 |           | 32.5     |      |             |        |      |
| Green Ext Time (p_c), s      |      | 3.5       |      | 0.3   |          | 0.0  |           | 0.0      |      |             |        |      |
| Intersection Summary         |      |           |      |       |          |      |           |          |      |             |        |      |
| HCM 6th Ctrl Delay           |      |           | 71.2 |       |          |      |           |          |      |             |        |      |
| HCM 6th LOS                  |      |           | Е    |       |          |      |           |          |      |             |        |      |
| Notes                        |      |           |      |       |          |      |           |          |      |             |        |      |

Unsignalized Delay for [NBR] is excluded from calculations of the approach delay and intersection delay.

|                         | <b>→</b> | •     | •     | •    | 4    |      |
|-------------------------|----------|-------|-------|------|------|------|
| Lane Group              | EBT      | EBR   | WBL   | WBT  | NBL  | NBR  |
| Lane Group Flow (vph)   | 183      | 701   | 1563  | 138  | 317  | 468  |
| v/c Ratio               | 0.74     | 1.18  | 1.44  | 0.10 | 0.93 | 0.36 |
| Control Delay           | 70.4     | 131.5 | 225.8 | 4.9  | 83.8 | 2.6  |
| Queue Delay             | 0.0      | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  |
| Total Delay             | 70.4     | 131.5 | 225.8 | 4.9  | 83.8 | 2.6  |
| Queue Length 50th (ft)  | 146      | ~669  | ~1684 | 28   | 259  | 39   |
| Queue Length 95th (ft)  | 227      | #907  | #1996 | 47   | #450 | 76   |
| Internal Link Dist (ft) | 1044     |       |       | 3802 | 1526 |      |
| Turn Bay Length (ft)    |          | 200   | 300   |      |      |      |
| Base Capacity (vph)     | 302      | 595   | 1086  | 1422 | 342  | 1307 |
| Starvation Cap Reductn  | 0        | 0     | 0     | 0    | 0    | 0    |
| Spillback Cap Reductn   | 0        | 0     | 0     | 0    | 0    | 0    |
| Storage Cap Reductn     | 0        | 0     | 0     | 0    | 0    | 0    |
| Reduced v/c Ratio       | 0.61     | 1.18  | 1.44  | 0.10 | 0.93 | 0.36 |

#### Intersection Summary

Volume exceeds capacity, queue is theoretically infinite.

Queue shown is maximum after two cycles.

<sup># 95</sup>th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.

|                              | <b>→</b> | •    | •     | ←        | •    | /    |
|------------------------------|----------|------|-------|----------|------|------|
| Movement                     | EBT      | EBR  | WBL   | WBT      | NBL  | NBR  |
| Lane Configurations          | <u> </u> | 7    | ሻ     | <u> </u> | ሻ    | 7    |
| Traffic Volume (veh/h)       | 168      | 645  | 1438  | 127      | 292  | 431  |
| Future Volume (veh/h)        | 168      | 645  | 1438  | 127      | 292  | 431  |
| Initial Q (Qb), veh          | 0        | 0    | 0     | 0        | 0    | 0    |
| Ped-Bike Adj(A_pbT)          | U        | 1.00 | 1.00  | U        | 1.00 | 1.00 |
| Parking Bus, Adj             | 1.00     | 1.00 | 1.00  | 1.00     | 1.00 | 1.00 |
| Work Zone On Approach        | No       | 1.00 | 1.00  | No       | No   | 1.00 |
| Adj Sat Flow, veh/h/ln       | 1870     | 1870 | 1870  | 1870     | 1870 | 1870 |
| Adj Flow Rate, veh/h         | 183      | 0    | 1563  | 138      | 317  | 468  |
|                              |          |      |       |          |      |      |
| Peak Hour Factor             | 0.92     | 0.92 | 0.92  | 0.92     | 0.92 | 0.92 |
| Percent Heavy Veh, %         | 2        | 2    | 2     | 2        | 2    | 2    |
| Cap, veh/h                   | 216      | 0.00 | 1117  | 1371     | 345  | 1228 |
| Arrive On Green              | 0.12     | 0.00 | 0.58  | 0.73     | 0.19 | 0.19 |
| Sat Flow, veh/h              | 1870     | 1585 | 1781  | 1870     | 1781 | 1585 |
| Grp Volume(v), veh/h         | 183      | 0    | 1563  | 138      | 317  | 468  |
| Grp Sat Flow(s), veh/h/ln    | 1870     | 1585 | 1781  | 1870     | 1781 | 1585 |
| Q Serve(g_s), s              | 11.8     | 0.0  | 71.5  | 2.6      | 21.5 | 11.6 |
| Cycle Q Clear(g_c), s        | 11.8     | 0.0  | 71.5  | 2.6      | 21.5 | 11.6 |
| Prop In Lane                 |          | 1.00 | 1.00  |          | 1.00 | 1.00 |
| Lane Grp Cap(c), veh/h       | 216      | 1.00 | 1117  | 1371     | 345  | 1228 |
| V/C Ratio(X)                 | 0.85     |      | 1.40  | 0.10     | 0.92 | 0.38 |
| Avail Cap(c_a), veh/h        | 312      |      | 1117  | 1467     | 355  | 1236 |
| HCM Platoon Ratio            | 1.00     | 1.00 | 1.00  | 1.00     | 1.00 | 1.00 |
|                              | 1.00     | 0.00 | 1.00  | 1.00     | 1.00 | 1.00 |
| Upstream Filter(I)           |          |      |       |          |      |      |
| Uniform Delay (d), s/veh     | 53.4     | 0.0  | 20.5  | 4.7      | 48.7 | 4.4  |
| Incr Delay (d2), s/veh       | 13.6     | 0.0  | 185.2 | 0.0      | 27.9 | 0.2  |
| Initial Q Delay(d3),s/veh    | 0.0      | 0.0  | 0.0   | 0.0      | 0.0  | 0.0  |
| %ile BackOfQ(50%),veh/ln     | 6.2      | 0.0  | 82.2  | 0.8      | 12.0 | 19.7 |
| Unsig. Movement Delay, s/veh |          |      |       |          |      |      |
| LnGrp Delay(d),s/veh         | 66.9     | 0.0  | 205.7 | 4.8      | 76.5 | 4.6  |
| LnGrp LOS                    | Ε        |      | F     | Α        | Е    | Α    |
| Approach Vol, veh/h          | 183      | А    |       | 1701     | 785  |      |
| Approach Delay, s/veh        | 66.9     |      |       | 189.4    | 33.7 |      |
| Approach LOS                 | F        |      |       | F        | С    |      |
|                              |          |      |       |          |      |      |
| Timer - Assigned Phs         | 1        | 2    |       | 4        |      | 6    |
| Phs Duration (G+Y+Rc), s     | 76.0     | 18.7 |       | 28.3     |      | 94.7 |
| Change Period (Y+Rc), s      | 4.5      | 4.5  |       | 4.5      |      | 4.5  |
| Max Green Setting (Gmax), s  | 71.5     | 20.5 |       | 24.5     |      | 96.5 |
| Max Q Clear Time (g_c+I1), s | 73.5     | 13.8 |       | 23.5     |      | 4.6  |
| Green Ext Time (p_c), s      | 0.0      | 0.4  |       | 0.4      |      | 0.7  |
| Intersection Summary         |          |      |       |          |      |      |
| HCM 6th Ctrl Delay           |          |      | 135.2 |          |      |      |
| <b>,</b>                     |          |      |       |          |      |      |
| HCM 6th LOS                  |          |      | F     |          |      |      |
| Notes                        |          |      |       |          |      |      |

Unsignalized Delay for [EBR] is excluded from calculations of the approach delay and intersection delay.

#### ion Road East & Pantall Road Projected with Improvements PM

| Intersection           |        |            |             |          |          |        |
|------------------------|--------|------------|-------------|----------|----------|--------|
| Int Delay, s/veh       | 337.2  |            |             |          |          |        |
| Movement               | EBL    | EBT        | WBT         | WBR      | SBL      | SBR    |
| Lane Configurations    | LDL    | 4          | 1€          | TT DIC   | <b>Y</b> | OBIN   |
| Traffic Vol, veh/h     | 185    | <b>408</b> | 597         | 34       | 26       | 969    |
| Future Vol, veh/h      | 185    | 408        | 597         | 34       | 26       | 969    |
| Conflicting Peds, #/hr | 165    | 408        | 0           | 0        | 20       | 909    |
|                        |        |            |             |          |          |        |
| Sign Control           | Free   | Free       | Free        | Free     | Stop     | Stop   |
| RT Channelized         | -      |            | -           |          | -        | None   |
| Storage Length         | -      | -          | -           | -        | 0        | -      |
| Veh in Median Storage  | 2,# -  | 0          | 0           | -        | 0        | -      |
| Grade, %               | -      | 0          | 0           | -        | 0        | -      |
| Peak Hour Factor       | 92     | 92         | 92          | 92       | 92       | 92     |
| Heavy Vehicles, %      | 2      | 2          | 2           | 2        | 2        | 2      |
| Mvmt Flow              | 201    | 443        | 649         | 37       | 28       | 1053   |
|                        |        | . 10       | <b>U</b> 17 | - 0,     |          | . 555  |
| Maiau/Minau            | 1/1-11 |            | 1-:0        |          | /!       |        |
|                        | Major1 |            | /lajor2     |          | Minor2   |        |
| Conflicting Flow All   | 686    | 0          | -           | 0        | 1513     | 668    |
| Stage 1                | -      | -          | -           | -        | 668      | -      |
| Stage 2                |        | -          | -           | -        | 845      | -      |
| Critical Hdwy          | 4.12   | -          | -           | -        | 6.42     | 6.22   |
| Critical Hdwy Stg 1    | -      | -          | -           | -        | 5.42     | -      |
| Critical Hdwy Stg 2    | -      | -          | -           | -        | 5.42     | -      |
| Follow-up Hdwy         | 2.218  | _          | _           | _        | 3.518    | 3.318  |
| Pot Cap-1 Maneuver     | 908    | _          | _           | -        |          | ~ 458  |
| Stage 1                | 700    | _          |             | _        | 510      | - 430  |
|                        |        | -          | -           |          | 421      |        |
| Stage 2                | -      | -          | -           | -        | 4Z I     | -      |
| Platoon blocked, %     | 0.00   | -          | -           | -        | ~ -      | 4=-    |
| Mov Cap-1 Maneuver     | 908    | -          | -           | -        |          | ~ 458  |
| Mov Cap-2 Maneuver     | -      | -          | -           | -        | 93       | -      |
| Stage 1                | -      | -          | -           | -        | 360      | -      |
| Stage 2                | -      | -          | _           | -        | 421      | -      |
| g <b>-</b>             |        |            |             |          |          |        |
|                        |        |            | 1675        |          | 0.5      |        |
| Approach               | EB     |            | WB          |          | SB       |        |
| HCM Control Delay, s   | 3.1    |            | 0           | \$       | 750.2    |        |
| HCM LOS                |        |            |             |          | F        |        |
|                        |        |            |             |          |          |        |
| Minor Long/Major Mayor | . 1    | EDI        | EDT         | WDT      | WDD      | CDI1   |
| Minor Lane/Major Mvm   | Il     | EBL        | EBT         | WBT      | WBR      |        |
| Capacity (veh/h)       |        | 908        | -           | -        | -        | 415    |
| HCM Lane V/C Ratio     |        | 0.221      | -           | -        | -        | 2.606  |
| HCM Control Delay (s)  |        | 10.1       | 0           | -        | -\$      | 750.2  |
| HCM Lane LOS           |        | В          | A           | -        | -        | F      |
| HCM 95th %tile Q(veh)  | )      | 0.8        | -           | -        |          | 87.9   |
|                        |        | 0.0        |             |          |          | /      |
| Notes                  |        |            |             |          |          |        |
| ~: Volume exceeds cap  | oacity | \$: De     | lay exc     | ceeds 30 | 00s      | +: Com |
|                        |        |            |             |          |          |        |

| Intersection           |        |        |          |         |          |         |                      |                                 |
|------------------------|--------|--------|----------|---------|----------|---------|----------------------|---------------------------------|
| Int Delay, s/veh       | 13.2   |        |          |         |          |         |                      |                                 |
| Movement               | EBL    | EBR    | NBL      | NBT     | SBT      | SBR     |                      |                                 |
| Lane Configurations    | ሻ      | 7      | ች        | <u></u> | <b>†</b> | 7       |                      |                                 |
| Traffic Vol, veh/h     | 25     | 89     | 129      | 519     | 1573     | 37      |                      |                                 |
| Future Vol, veh/h      | 25     | 89     | 129      | 519     | 1573     | 37      |                      |                                 |
| Conflicting Peds, #/hr | 0      | 0      | 0        | 0       | 0        | 0       |                      |                                 |
| Sign Control           | Stop   | Stop   | Free     | Free    | Free     | Free    |                      |                                 |
| RT Channelized         | -      | None   | -        | None    | _        | None    |                      |                                 |
| Storage Length         | 0      | 0      | 100      | _       | -        | 100     |                      |                                 |
| /eh in Median Storage  |        | -      | _        | 0       | 0        | -       |                      |                                 |
| Grade, %               | 0      | -      | -        | 0       | 0        | _       |                      |                                 |
| Peak Hour Factor       | 92     | 92     | 92       | 92      | 92       | 92      |                      |                                 |
| Heavy Vehicles, %      | 2      | 2      | 2        | 2       | 2        | 2       |                      |                                 |
| Nymt Flow              | 27     | 97     | 140      | 564     | 1710     | 40      |                      |                                 |
| VIVIIIC I IOVV         | 21     | 71     | 110      | 001     | 1710     | 10      |                      |                                 |
| Major/Minor            | Minor2 | ı      | Major1   | 1       | Major2   |         |                      |                                 |
| Conflicting Flow All   | 2554   | 1710   | 1750     | 0       | -        | 0       |                      |                                 |
| Stage 1                | 1710   | -      | -        | -       | -        | -       |                      |                                 |
| Stage 2                | 844    | _      | _        | _       | _        | _       |                      |                                 |
| ritical Hdwy           | 6.42   | 6.22   | 4.12     | _       | _        | _       |                      |                                 |
| ritical Hdwy Stg 1     | 5.42   | - 0.22 | 1.12     | _       | _        | _       |                      |                                 |
| itical Hdwy Stg 2      | 5.42   | _      | _        | _       | _        | -       |                      |                                 |
| ollow-up Hdwy          | 3.518  |        | 2.218    | _       | _        | _       |                      |                                 |
| ot Cap-1 Maneuver      | 29     | 112    | 358      | _       | _        | _       |                      |                                 |
| Stage 1                | 160    | - 112  | - 330    | _       | _        | _       |                      |                                 |
| Stage 2                | 422    | -      | _        | _       | _        | _       |                      |                                 |
| latoon blocked, %      | 722    |        |          | _       |          | _       |                      |                                 |
| Nov Cap-1 Maneuver     | ~ 18   | 112    | 358      | -       | -        | -       |                      |                                 |
| Nov Cap-1 Maneuver     | ~ 18   | - 112  | - 330    | _       |          | _       |                      |                                 |
| Stage 1                | 97     | _      | _        | _       | _        | _       |                      |                                 |
| Stage 2                | 422    | _      | _        | _       |          | _       |                      |                                 |
| Siage 2                | 722    |        |          |         |          |         |                      |                                 |
| pproach                | EB     |        | NB       |         | SB       |         |                      |                                 |
| CM Control Delay, s    |        |        | 4.3      |         | 0        |         |                      |                                 |
| ICM LOS                | F      |        |          |         |          |         |                      |                                 |
| 10.11 200              |        |        |          |         |          |         |                      |                                 |
| linor Lane/Major Mvn   | nt     | NBL    | NBT      | EBLn1 I | EBLn2    | SBT     | SBR                  |                                 |
| Capacity (veh/h)       |        | 358    |          | 18      | 112      |         | -                    |                                 |
| ICM Lane V/C Ratio     |        | 0.392  | _        |         | 0.864    | _       | -                    |                                 |
| ICM Control Delay (s)  |        | 21.4   | -\$      | 705.7   |          | -       | -                    |                                 |
| CM Lane LOS            |        | C      | - Ψ      | F       | F        | _       | -                    |                                 |
| ICM 95th %tile Q(veh   | )      | 1.8    | -        | 3.8     | 5.1      | -       | -                    |                                 |
| · ·                    | ,      |        |          |         | J. 1     |         |                      |                                 |
| otes                   | nacit: | ¢. D   | olov ova | oods 2  | 000      | LL Come | outation Not Defined | *. All major valuma in plate en |
| Volume exceeds ca      | pacity | \$: D6 | elay exc | eeds 3  | UUS      | +: Com  | outation Not Defined | *: All major volume in platoon  |

## APPENDIX E BACKGROUND DEVELOPMENTS



Pleasant Creek - Traffic Impact Study September 2020 Thompson's Station Road East Bethesda Road XXX - AM Peak Hour Traffic Volumes (XXX) - PM Peak Hour Background Peak Hour Traffic Volumes (7% General Growth) (Not to Scale) Figure E1.

Pleasant Creek - Traffic Impact Study September 2020 Thompson's Station Road East Bethesda Road XXX - AM Peak Hour Traffic Volumes (XXX) - PM Peak Hour Background Peak Hour Traffic Volumes Generated by Alexander Property (Not to Scale) Figure E2.

Pleasant Creek - Traffic Impact Study September 2020 Thompson's Station Road East Bethesda Road XXX - AM Peak Hour Traffic Volumes (XXX) - PM Peak Hour Background Peak Hour Traffic Volumes Generated by Littlebury (Not to Scale) Figure E3.

## APPENDIX F TRIP GENERATION CALCULATIONS



#### **TOTAL TRIP GENERATION**

|          |                                |         | UNIT   |      | AM    |      |       | PM    |      |       |
|----------|--------------------------------|---------|--------|------|-------|------|-------|-------|------|-------|
| ITE CODE | LAND USE                       | # UNITS | TYPE   | ADT  | Enter | Exit | Total | Enter | Exit | Total |
| 210      | Single-Family Detached Housing | 417     | units  | 3868 | 75    | 226  | 301   | 252   | 148  | 400   |
| 820      | Shopping Center                | 1.5     | k.s.f. | 346  | 1     |      | 1     | 12    | 12   | 24    |
| 820      | Shopping Center                | 4       | k.s.f. | 674  | 2     | 2    | 4     | 24    | 26   | 50    |
| 820      | Shopping Center                | 2       | k.s.f. | 76   | 1     | 1    | 2     | 14    | 16   | 30    |
| 912      | Drive-In Bank                  | 2       | k.s.f. | 200  | 11    | 8    | 19    | 20    | 21   | 41    |
|          |                                |         |        |      |       |      |       |       |      |       |
|          |                                |         |        |      |       |      |       |       |      |       |
|          |                                |         |        |      |       |      |       |       |      |       |
|          |                                |         |        |      |       |      |       |       |      |       |
|          |                                |         |        |      |       |      |       |       |      |       |
| TOTAL    |                                |         |        | 5164 | 90    | 237  | 327   | 322   | 223  | 545   |
|          |                                |         |        |      |       |      |       |       |      |       |

#### **Single-Family Detached Housing**

210 ITE Land Code

417 units

Average Daily Traffic:

$$Ln(T) = (0.92 * Ln(X) + 2.71)$$

$$Ln(T) = (0.92 * Ln(417) + 2.71)$$

$$T = 3868$$

A.M. Peak Hour:

$$T = 0.71 * (X) + 4.80$$

$$T = 0.71 * (417) + 4.80$$

$$T = 301$$

P.M. Peak Hour:

$$Ln(T) = (0.96 * Ln(X) + 0.2)$$

$$Ln(T) = (0.96 * Ln(417) + 0.2)$$

$$T = 400$$

$$Exit = 148$$
 37%

#### **Shopping Center**

820 ITE Land Code

1.5 k.s.f.

Average Daily Traffic:

$$Ln(T) = (0.68 * Ln(X) + 5.57)$$

$$Ln(T) = (0.68 * Ln(1.5) + 5.57)$$

A.M. Peak Hour:

$$T = 0.94 * (X)$$

$$T = 0.94 * (1.5)$$

T = 1

Enter = 
$$1$$
 62%

Exit = 
$$0$$
 38%

P.M. Peak Hour:

$$Ln(T) = (0.74 * Ln(X) + 2.89)$$

$$Ln(T) = (0.74 * Ln(1.5) + 2.89)$$

T = 24

Exit = 
$$12$$
 52%

#### **Shopping Center**

820 ITE Land Code

4 k.s.f.

Average Daily Traffic:

$$Ln(T) = (0.68 * Ln(X) + 5.57)$$

$$Ln(T) = (0.68 * Ln(4) + 5.57)$$

$$T = 674$$

A.M. Peak Hour:

$$T = 0.94 * (X)$$

$$T = 0.94 * (4)$$

Enter = 
$$2$$
 62%

Exit = 
$$2$$
 38%

P.M. Peak Hour:

$$Ln(T) = (0.74 * Ln(X) + 2.89)$$

$$Ln(T) = (0.74 * Ln(4) + 2.89)$$

$$T = 50$$

Exit = 
$$26$$
 52%

#### **Shopping Center**

820 ITE Land Code

2 k.s.f.

Average Daily Traffic:

$$T = 37.75 * (X)$$

$$T = 37.75 * (2)$$

T = 76

A.M. Peak Hour:

$$T = 0.94 * (X)$$

$$T = 0.94 * (2)$$

T = 2

Enter = 
$$1$$
 62%

Exit = 
$$1$$
 38%

P.M. Peak Hour:

$$Ln(T) = (0.74 * Ln(X) + 2.89)$$

$$Ln(T) = (0.74 * Ln(2) + 2.89)$$

T = 30

Exit = 
$$16$$
 52%

#### **Drive-In Bank**

912 ITE Land Code

2 k.s.f.

Average Daily Traffic:

$$T = 100.03 * (X)$$

$$T = 100.03 * (2)$$

T = 200

A.M. Peak Hour:

$$T = 9.5 * (X)$$

$$T = 9.5 * (2)$$

Exit = 
$$8$$
 42%

P.M. Peak Hour:

$$T = 20.45 * (X)$$

$$T = 20.45 * (2)$$

Exit = 
$$21$$
 50%

#### APPENDIX G WARRANT ANALYSIS



#### Northbound - Lewisburg Pike (SR 106/US 431) and Site Access A - AM Peak Hour

Figure 2 - 5. Guideline for determining the need for a major-road left-turn bay at a two-way stop-controlled intersection.

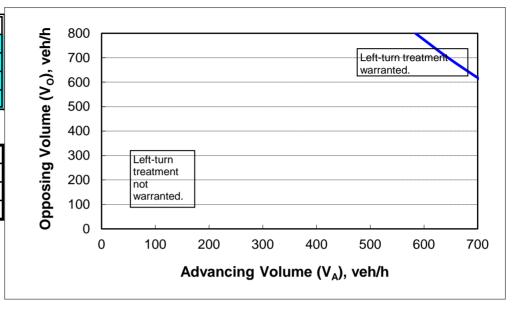
#### 2-lane roadway (English)

#### INPUT

| Variable  | Value |
|---|-------|
| 85 <sup>th</sup> percentile speed, mph:                         | 55    |
| Percent of left-turns in advancing volume (V <sub>A</sub> ), %: | 1%    |
| Advancing volume (V <sub>A</sub> ), veh/h:                      | 2509  |
| Opposing volume (V <sub>O</sub> ), veh/h:                       | 339   |

#### OUTPUT

| Variable  | Value |  |  |  |  |
|---|-------|--|--|--|--|
| Limiting advancing volume (V <sub>A</sub> ), veh/h:               | 936   |  |  |  |  |
| Guidance for determining the need for a major-road left-turn bay: |       |  |  |  |  |
| Left-turn treatment warranted.                                    |       |  |  |  |  |



| Variable   | Value |
|--|-------|
| Average time for making left-turn, s:                              | 3.0   |
| Critical headway, s:   | 5.0   |
| Average time for left-turn vehicle to clear the advancing lane, s: | 1.9   |

#### Northbound - Lewisburg Pike (SR 106/US 431) and Site Access A - PM Peak Hour

Figure 2 - 5. Guideline for determining the need for a major-road left-turn bay at a two-way stop-controlled intersection.

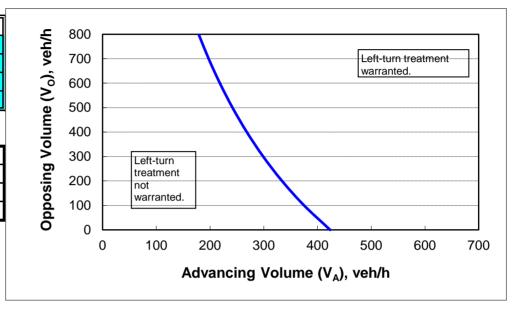
#### 2-lane roadway (English)

#### INPUT

| Variable  | Value |
|---|-------|
| 85 <sup>th</sup> percentile speed, mph:                         | 55    |
| Percent of left-turns in advancing volume (V <sub>A</sub> ), %: | 12%   |
| Advancing volume (V <sub>A</sub> ), veh/h:                      | 545   |
| Opposing volume (V <sub>O</sub> ), veh/h:                       | 1404  |

#### OUTPUT

| Variable  | Value |  |  |  |
|---|-------|--|--|--|
| Limiting advancing volume (V <sub>A</sub> ), veh/h:               | 100   |  |  |  |
| Guidance for determining the need for a major-road left-turn bay: |       |  |  |  |
| Left-turn treatment warranted.                                    |       |  |  |  |



| Variable   | Value |
|--|-------|
| Average time for making left-turn, s:                              | 3.0   |
| Critical headway, s:   | 5.0   |
| Average time for left-turn vehicle to clear the advancing lane, s: | 1.9   |

### Southbound - Lewisburg Pike (SR 106/US 431) and Harpeth-Peytsonsville Road - AM Peak Hour

Figure 2 - 5. Guideline for determining the need for a major-road left-turn bay at a two-way stop-controlled intersection.

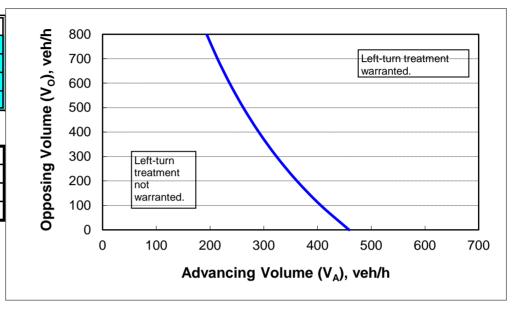
#### 2-lane roadway (English)

#### INPUT

| Variable  | Value |
|---|-------|
| 85 <sup>th</sup> percentile speed, mph:                         | 55    |
| Percent of left-turns in advancing volume (V <sub>A</sub> ), %: | 10%   |
| Advancing volume (V <sub>A</sub> ), veh/h:                      | 339   |
| Opposing volume (V <sub>O</sub> ), veh/h:                       | 2509  |

#### OUTPUT

| Variable  | Value |
|---|-------|
| Limiting advancing volume (V <sub>A</sub> ), veh/h:               | 38    |
| Guidance for determining the need for a major-road left-turn bay: |       |
| Left-turn treatment warranted.                                    |       |



| Variable   | Value |
|--|-------|
| Average time for making left-turn, s:                              | 3.0   |
| Critical headway, s:   | 5.0   |
| Average time for left-turn vehicle to clear the advancing lane, s: | 1.9   |

#### Southbound - Lewisburg Pike (SR 106/US 431) and Harpeth-Peytsonsville Road - PM Peak Hour

Figure 2 - 5. Guideline for determining the need for a major-road left-turn bay at a two-way stop-controlled intersection.

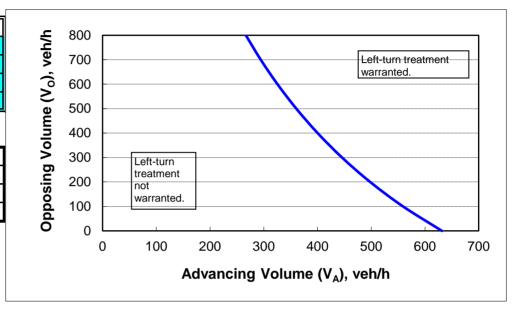
#### 2-lane roadway (English)

#### INPUT

| Variable  | Value |
|---|-------|
| 85 <sup>th</sup> percentile speed, mph:                         | 55    |
| Percent of left-turns in advancing volume (V <sub>A</sub> ), %: | 5%    |
| Advancing volume (V <sub>A</sub> ), veh/h:                      | 1404  |
| Opposing volume (V <sub>O</sub> ), veh/h:                       | 545   |

#### OUTPUT

| Variable  | Value |
|---|-------|
| Limiting advancing volume (V <sub>A</sub> ), veh/h:               | 344   |
| Guidance for determining the need for a major-road left-turn bay: |       |
| Left-turn treatment warranted.                                    |       |



| Variable   | Value |
|--|-------|
| Average time for making left-turn, s:                              | 3.0   |
| Critical headway, s:   | 5.0   |
| Average time for left-turn vehicle to clear the advancing lane, s: | 1.9   |

#### Northbound - Lewisburg Pike (SR 106/US 431) and Site Access B - AM Peak Hour

Figure 2 - 5. Guideline for determining the need for a major-road left-turn bay at a two-way stop-controlled intersection.

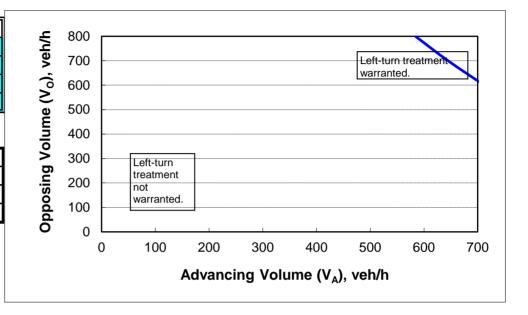
#### 2-lane roadway (English)

#### INPUT

| Variable  | Value |
|---|-------|
| 85 <sup>th</sup> percentile speed, mph:                         | 55    |
| Percent of left-turns in advancing volume (V <sub>A</sub> ), %: | 1%    |
| Advancing volume (V <sub>A</sub> ), veh/h:                      | 2517  |
| Opposing volume (V <sub>O</sub> ), veh/h:                       | 422   |

#### OUTPUT

| Variable  | Value |
|---|-------|
| Limiting advancing volume (V <sub>A</sub> ), veh/h:               | 857   |
| Guidance for determining the need for a major-road left-turn bay: |       |
| Left-turn treatment warranted.                                    |       |



| Variable   | Value |
|--|-------|
| Average time for making left-turn, s:                              | 3.0   |
| Critical headway, s:   | 5.0   |
| Average time for left-turn vehicle to clear the advancing lane, s: | 1.9   |

#### Northbound - Lewisburg Pike (SR 106/US 431) and Site Access B - PM Peak Hour

Figure 2 - 5. Guideline for determining the need for a major-road left-turn bay at a two-way stop-controlled intersection.

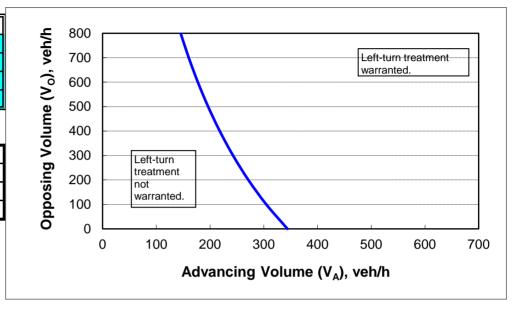
#### 2-lane roadway (English)

#### INPUT

| Variable  | Value |
|---|-------|
| 85 <sup>th</sup> percentile speed, mph:                         | 55    |
| Percent of left-turns in advancing volume (V <sub>A</sub> ), %: | 20%   |
| Advancing volume (V <sub>A</sub> ), veh/h:                      | 648   |
| Opposing volume (V <sub>O</sub> ), veh/h:                       | 1610  |

#### OUTPUT

| Variable  | Value |
|---|-------|
| Limiting advancing volume (V <sub>A</sub> ), veh/h:               | 67    |
| Guidance for determining the need for a major-road left-turn bay: |       |
| Left-turn treatment warranted.                                    |       |



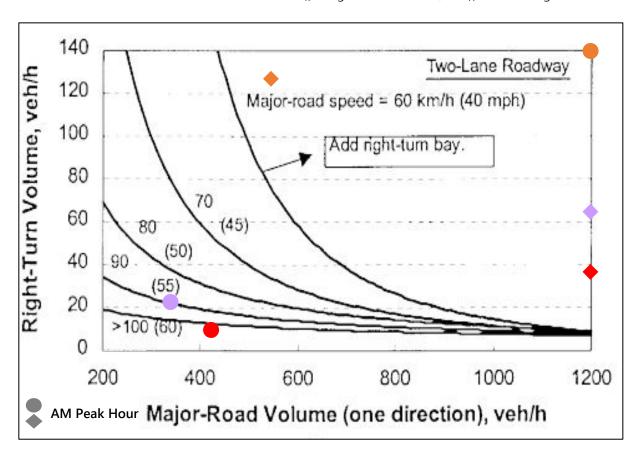
| Variable   | Value |
|--|-------|
| Average time for making left-turn, s:                              | 3.0   |
| Critical headway, s:   | 5.0   |
| Average time for left-turn vehicle to clear the advancing lane, s: | 1.9   |

## Projected Conditions (Peak Hours) RIGHT-TURN LANE WARRANT ANALYSIS

(Based on NCHRP 457: Evaluating Intersection Improvements)

| Intersection Approach                                       |  | Speed | AM Peak Hour     |                  |                 | PM Peak Hour     |                  |                 |
|---|--|-------|------------------|------------------|-----------------|------------------|------------------|-----------------|
|   |  | Limit | V <sub>R</sub> * | V <sub>A</sub> * | Warrant<br>Met? | V <sub>R</sub> * | V <sub>A</sub> * | Warrant<br>Met? |
| Southbound - Lewisburg Pike at<br>Site Access A             |  | 55    | 23               | 339              | No              | 65               | 1404             | Yes             |
| Northbound - Lewisburg Pike at<br>Harpeth-Peytonsville Road |  | 55    | 300              | 2509             | Yes             | 127              | 545              | Yes             |
| Southbound - Lewisburg Pike at<br>Site Access B             |  | 55    | 10               | 422              | No              | 37               | 1610             | Yes             |

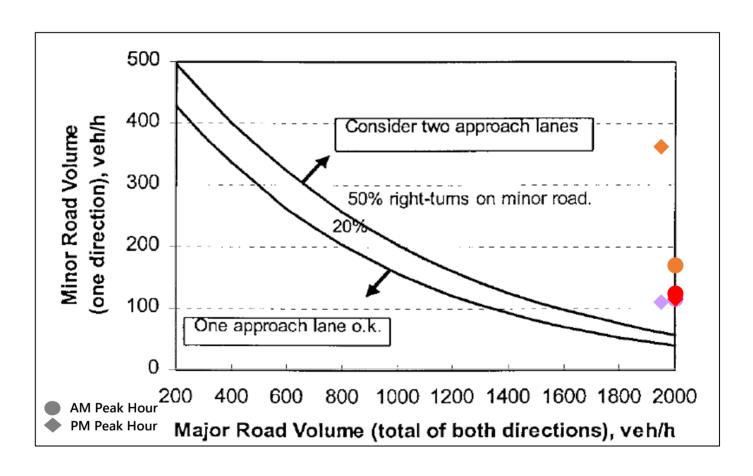
 $V_R$  = Right Turn Volumes,  $V_A$  = Advancing Volumes

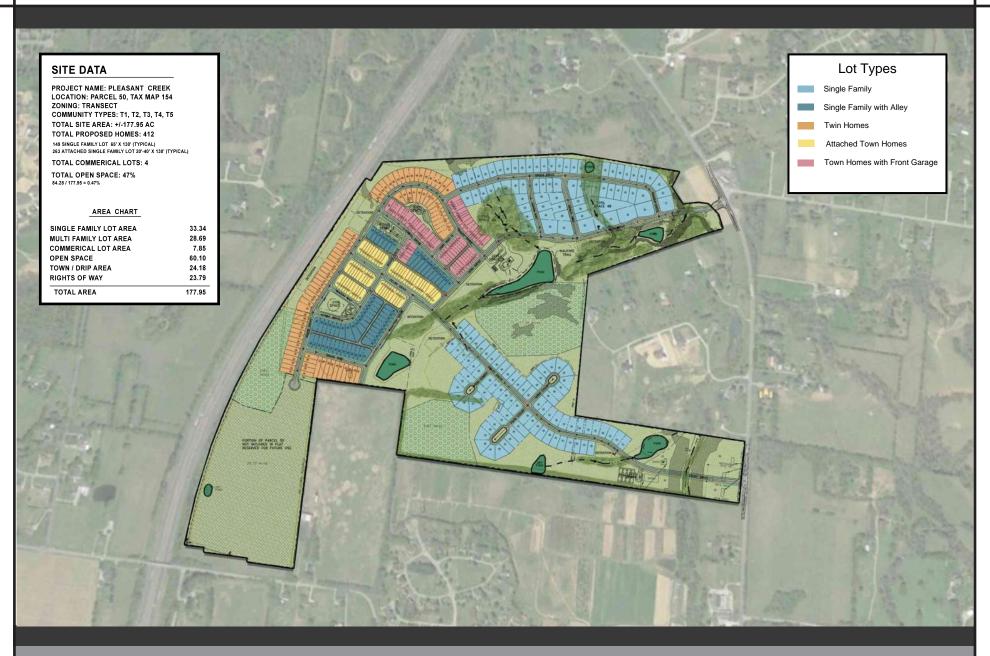


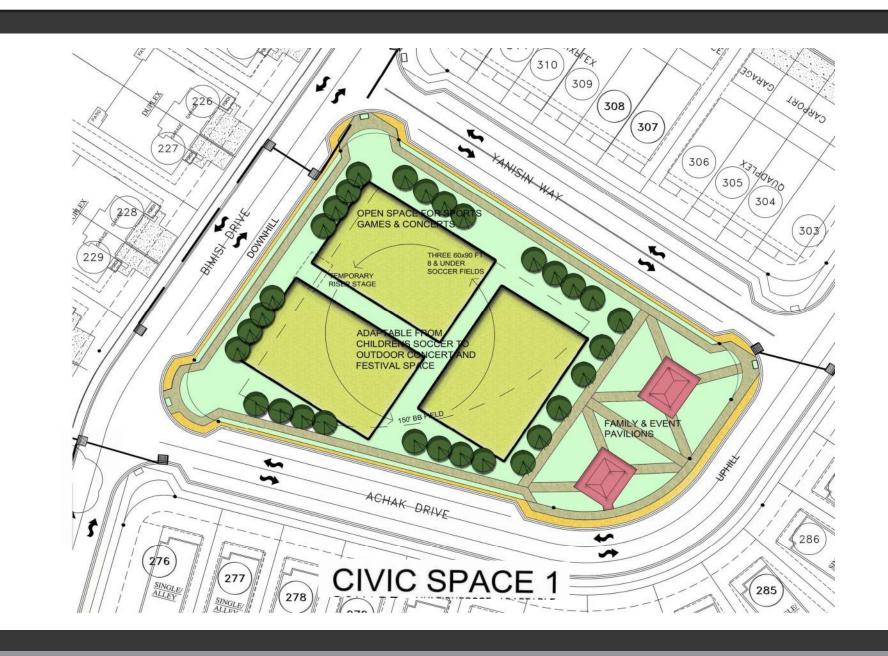
## Projected Conditions (Peak Hours) MINOR APPROACH ANALYSES

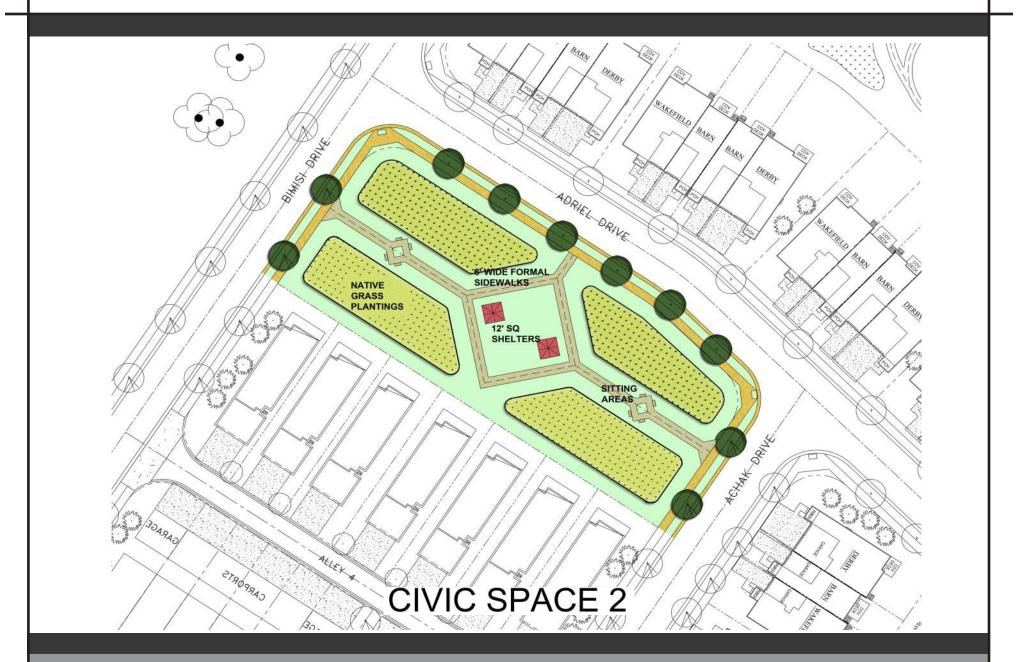
(Based on Intersection Channelization Design Guide)

| Intersection Approach  |  |                         | AM Peak I               | Hour                | PM Peak Hour            |                         |                     |
|--|--|-------------------------|-------------------------|---------------------|-------------------------|-------------------------|---------------------|
|  |  | Minor<br>Road<br>Volume | Major<br>Road<br>Volume | 2-Lane<br>Approach? | Minor<br>Road<br>Volume | Major<br>Road<br>Volume | 2-Lane<br>Approach? |
| Eastbound - Site Access A at<br>Lewisburg Pike                 |  | 114                     | 2848                    | Yes                 | 109                     | 1949                    | Yes                 |
| Westbound - Harpeth-<br>Peytonsville Road at Lewisburg<br>Pike |  | 169                     | 2848                    | Yes                 | 363                     | 1949                    | Yes                 |
| Eastbound - Site Access B at<br>Lewisburg Pike                 |  | 123                     | 2939                    | Yes                 | 114                     | 2258                    | Yes                 |









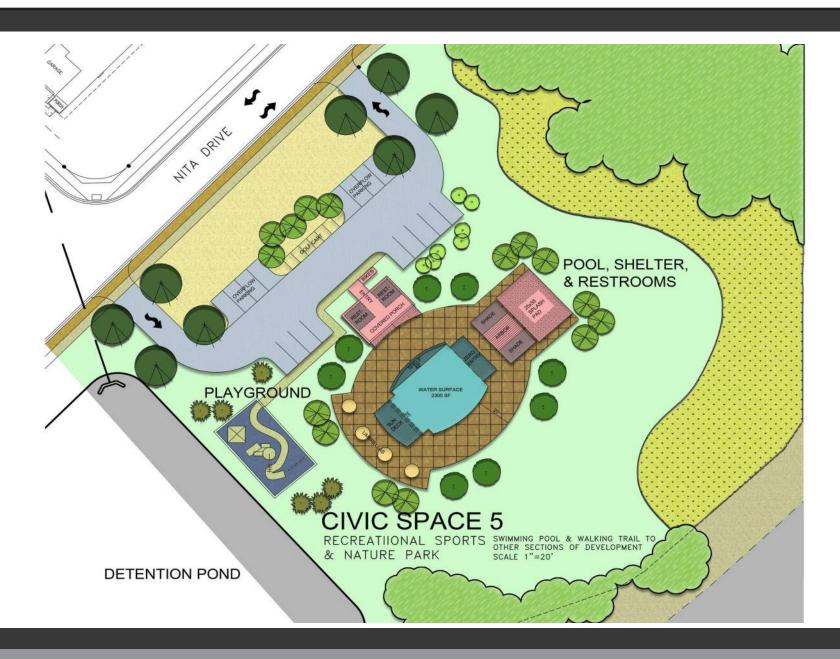


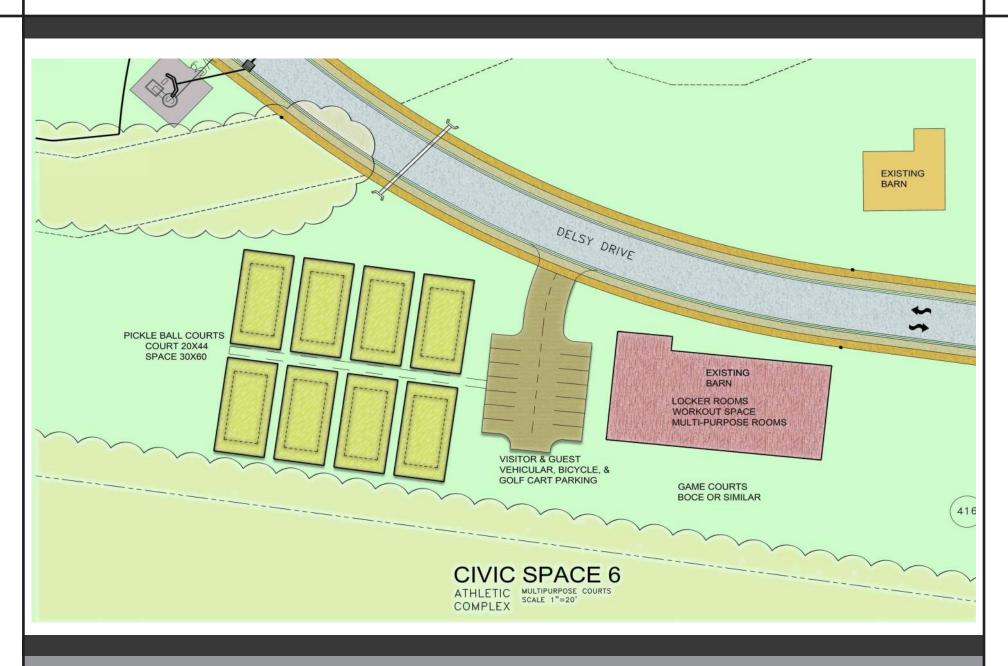




CIVIC SPACES 4A & 4B
PARKS UNDEVELOPED AREAS HANDLING DRAINAGE
BENCHES AND PATCHES OF LAWN
SCALE 1"=40'

## PLEASANT CREEK







# PLEASANT CREEK CONCEPTUAL PLAN

THOMPSON'S STATION, TN



Single Family with Alley

## PLEASANT CREEK

CONCEPTUAL PLAN THOMPSON'S STATION, TN



BON JOHNGON

**Attached Town Homes** 

## PLEASANT CREEK

CONCEPTUAL PLAN THOMPSON'S STATION, TN

4



Town Homes with Front Garage

# PLEASANT CREEK CONCEPTUAL PLAN

THOMPSON'S STATION, TN



CONCEPTUAL PLAN THOMPSON'S STATION, TN

Б