At the request of the reviewing agency, we have prepared a comparison of the original 140 unit development vs. the current proposed 172 unit development. The remainder of the development does not change.

If we compare Tables 1 and 2, there will be a net increase of 11 vehicle trips in the morning peak hour, 13 vehicle trips in the evening peak hour, and 21 vehicle trips in the Saturday peak hour. These additional trips represent the increase in residential units from 140 to 172.

We also compared the results of the Level of Service analysis which is shown in Table 3. We have highlighted the changes in yellow between the 140 unit and 172 unit development. There are no changes to the Level of Service (LOS). There are minor changes to the volume/capacity (v/c) ratio and average vehicle delay. In almost every case, the change in the v/c ratio is no greater than 0.2 except of one case where the change is 0.16 in the Saturday peak hour. The changes in the average vehicle delay are also undiscernible to the driver with changes being 0.2 seconds or less except for the Saturday peak hour where the change is 2.0 seconds. This is at the intersection of Route 52/Main Street/Teller Avenue for Route 52 westbound approach.

Since there is no change in the LOS and the changes to the $\mathrm{v} / \mathrm{c}$ ratio and delays are de minimis, the plan with the 172 unit should be approved.

| TABLE 1A - Calculation of Weekday Peak Hour Trips |  |
| :--- | :--- |
| Mid-Rise Apartments Land Use 223 -140 units |  |
| Morning Peak Hour | Afternoon Peak Hour |
| Total Trips $=0.32 \times 140$ units $=45$ trips | Total Trips $=0.40 \times 140$ units $=56$ trips |
| Trips Entering $=0.31 \times 45$ trips $=14$ trips | Trips Entering $=0.58 \times 56$ trips $=32$ trips |
| Trips Exiting $=0.69 \times 45$ trips $=31$ trips | Trips Exiting $=0.42 \times 56$ trips $=24$ trips |


| TABLE 1B - Calculation of Weekday Peak Hour Trips |  |
| :--- | :--- |
| Storage Facility Land Use $151-25,000 \mathrm{sq} . \mathrm{ft}$ |  |
| Morning Peak Hour | Afternoon Peak Hour |
| Total Trips $=0.14 \times 25,000$ sq. ft. $=4$ trips | Total Trips $=0.26 \times 25,000 \mathrm{sq} . \mathrm{ft}=$.7 trips |
| Trips Entering $=0.55 \times 4$ trips $=2$ trips | Trips Entering $=0.50 \times 7$ trips $=4$ trips |
| Trips Exiting $=0.45 \times 4$ trips $=2$ trips | Trips Exiting $=0.50 \times 7$ trips $=3$ trips |


| TABLE 1C - Calculation of Weekend Day Peak Hour Trips |  |
| :--- | :--- |
| Mid-Rise Apartments Land Use 223-140 units |  |
| Saturday Peak Hour |  |
| Total Trips $=0.64 \times 140$ units $=90$ trips |  |
| Trips Entering $=0.43 \times 77$ trips $=39$ trips |  |
| Trips Exiting $=0.57 \times 77$ trips $=51$ trips |  |


| TABLE 1D - Calculation of Weekend Day Peak Hour Trips |  |
| :--- | :--- |
| Storage Facility Land Use $151-25,000$ sq. ft. |  |
| Saturday Peak Hour |  |
| Total Trips $=0.40 \times 25,000$ sq. ft. $=10$ trips |  |
| Trips Entering $=0.50 \times 10$ trips $=5$ trips |  |
| Trips Exiting $=0.50 \times 10$ trips $=5$ trips |  |


| TABLE 2A - Calculation of Weekday Peak Hour Trips |  |
| :--- | :--- |
| Mid-Rise Apartments Land Use 223-172units |  |
| Morning Peak Hour | Afternoon Peak Hour |
| Total Trips $=0.32 \times 172$ units $=56$ trips | Total Trips $=0.40 \times 172$ units $=69$ trips |
| Trips Entering $=0.31 \times 56$ trips $=18$ trips | Trips Entering $=0.58 \times 69$ trips $=41$ trips |
| Trips Exiting $=0.69 \times 56$ trips $=38$ trips | Trips Exiting $=0.42 \times 69$ trips $=28$ trips |


| TABLE 2B - Calculation of Weekday Peak Hour Trips |  |
| :--- | :--- |
| Self-Storage Land Use $151-25,000 \mathrm{sq} . \mathrm{ft}$ |  |
| Morning Peak Hour | Afternoon Peak Hour |
| Total Trips $=0.14 \times 25,000$ sq. ft. $=4$ trips | Total Trips $=0.26 \times 25,000 \mathrm{sq} . \mathrm{ft} .=7$ trips |
| Trips Entering $=0.55 \times 4$ trips $=2$ trips | Trips Entering $=0.50 \times 7$ rips $=4$ trips |
| Trips Exiting $=0.45 \times 4$ trips $=2$ trips | Trips Exiting $=0.50 \times 7$ trips $=3$ trips |


| TABLE 2C - Calculation of Weekend Day Peak Hour Trips |  |
| :--- | :--- |
| Mid-Rise Apartments Land Use 223-172 units |  |
| Saturday Peak Hour |  |
| Total Trips $=0.64 \times 172$ units $=111$ trips |  |
| Trips Entering $=0.43 \times 111$ trips $=48$ trips |  |
| Trips Exiting $=0.57 \times 111$ trips $=63$ trips |  |


| TABLE 2D - Calculation of Weekend Day Peak Hour Trips |  |
| :--- | :--- |
| Self-Storage Land Use 151-25,000 sq. ft. |  |
| Saturday Peak Hour |  |
| Total Trips $=0.40 \times 25,000$ sq. ft. $=10$ trips |  |
| Trips Entering $=0.50 \times 10$ trips $=5$ trips |  |
| Trips Exiting $=0.50 \times 10$ trips $=5$ trips |  |


| TABLE 3 <br> CAPACITY ANALYSIS SUMMARY <br> 2016 BUILD 140 Units VS 2016 BUILD CONDITIONS 172 Units SIGNALIZED INTERSECTIONS |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2016 BUILD CONDITIONS - 140 Units |  |  |  |  |  |  |  |  | 2016 BUILD CONDITIONS - 172 Units |  |  |  |  |  |  |  |  |
|  | Weekday AM Peak |  |  | Weekday PM Peak |  |  | Saturday Peak |  |  | Weekday AM Peak Weekday PM Peak Saturday Peak |  |  |  |  |  |  |  |  |
|  | LOS | Ratio | Delay | LOS | Ratio | Delay | LOS | Ratio | Delay | LOS | Ratio | Delay | LOS | Ratio | Delay | LOS | Ratio | Delay |
| Route 52/Verplanck Avenue Route 52 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Eastbound LTR | B | 0.40 | 11.7 | B | 0.40 | 11.6 | B | 0.40 | 11.7 | B | 0.40 | 11.8 | B | 0.40 | 11.7 | B | 0.41 | 11.8 |
| Westbound LTR | B | 0.51 | 13.3 | B | 0.58 | 14.5 | B | 0.57 | 14.1 | B | 0.52 | 13.5 | B | 0.58 | 14.5 | B | 0.58 | 14.3 |
| Verplanck Avenue |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northbound LTR | C | 0.44 | 24.5 | D | 0.75 | 38.0 | C | 0.32 | 22.4 | C | 0.44 | 24.5 | D | 0.75 | 38.0 | C | 0.32 | 22.4 |
| Southbound Lt | B | 0.37 | 14.8 | B | 0.34 | 16.1 | B | 0.29 | 14.1 | B | 0.37 | 14.8 | B | 0.35 | 16.2 | B | 0.30 | 14.1 |
| Southbound Th + Rt | B | 0.28 | 13.7 | B | 0.26 | 13.3 | B | 0.28 | 13.5 | B | 0.28 | 13.7 | B | 0.26 | 13.3 | B | 0.28 | 13.5 |
| Overall | B |  | 14.6 | B |  | 18.2 | B |  | 14.1 | B |  | 14.6 | B |  | 18.2 | B |  | 14.2 |
| Route 52/Main Street/Teller Avenue Teller Avenue |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Eastbound LTR | B | 0.39 | 15.8 | B | 0.43 | 16.2 | B | 0.40 | 15.5 | B | 0.40 | 15.8 | B | 0.43 | 16.3 | B | 0.41 | 15.6 |
| Route 52 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Westbound LTR | B | 0.51 | 17.3 | B | 0.50 | 16.1 | B | 0.43 | 16.0 | B | 0.52 | 17.5 | B | 0.51 | 16.2 | B | 0.59 | 18.0 |
| Main Street |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northbound LTR | A | 0.24 | 8.8 | B | 0.40 | 10.2 | B | 0.50 | 12.9 | A | 0.24 | 8.8 | B | 0.40 | 10.2 | B | 0.50 | 12.9 |
| Southbound LTR | A | 0.25 | 9.1 | A | 0.32 | 9.8 | B | 0.49 | 11.2 | A | 0.26 | 9.1 | A | 0.32 | 9.8 | B | 0.49 | 11.3 |
| Overall | B |  | 13.5 | B |  | 13.1 | B |  | 13.6 | B |  | 13.6 | B |  | 13.1 | B |  | 14.4 |
|  |  |  |  |  |  | ABLE 3 |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | CAPA | CITY AN | ALYSIS | SUMM | RY |  |  |  |  |  |  |  |  |  |  |
|  |  | 2016 | BUILD | 40 Unit | V VS 201 | 16 BUILD | COND | TIONS | 172 Un |  |  |  |  |  |  |  |  |  |
|  |  |  |  | UNSI | NALIZ | D INTER | SECTI |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | 2016 | JILD C | NDITI | NS - 14 | Units |  |  |  |  | 016 BU | LD CO | NDITIO | ONS - 1 | 72 Un |  |  |
|  | Wee | day AM | Peak | Wee | day PM | Peak |  | urday P |  | Week | day AM | Peak | Week | day PM | Peak | Sat | urday P | eak |
|  |  | V/C |  |  | V/C |  |  | V/C |  |  | V/C |  |  | V/C |  |  | V/C |  |
|  | LOS | Ratio | Delay | LOS | Ratio | Delay | LOS | Ratio | Delay | LOS | Ratio | Delay | LOS | Ratio | Delay | LOS | Ratio | Delay |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Eastbound Th + Rt | A | 0.00 | 0.0 | A | 0.00 | 0.0 | A | 0.00 | 0.0 | A | 0.00 | 0.0 | A | 0.00 | 0.0 | A | 0.00 | 0.0 |
| Westbound Lt + Th | A | 0.02 | 8.3 | A | 0.04 | 8.6 | A | 0.03 | 8.8 | A | 0.02 | 8.3 | A | 0.03 | 8.6 | A | 0.03 | 8.8 |
| Mill Street |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northbound Lt + Rt | C | 0.16 | 15.3 | C | 0.21 | 19.5 | D | 0.35 | 27.4 | C | 0.18 | 15.7 | C | 0.23 | 20.2 | D | 0.41 | 30.0 |
| Route 52/Delavan Avenue/STS Tire Driveway Route 52 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Eastbound LTR | A | 0.04 | 8.6 | A | 0.02 | 8.6 | A | 0.02 | 8.8 | A | 0.04 | 8.6 | A | 0.02 | 8.6 | A | 0.02 | 8.8 |
| Westbound LTR | A | 0.01 | 8.4 | A | 0.01 | 8.4 | A | 0.01 | 8.4 | A | 0.00 | 8.4 | A | 0.01 | 8.4 | A | 0.01 | 8.4 |
| STS Tire Driveway |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northbound LTR | B | 0.01 | 11.4 | B | 0.04 | 14.8 | D | 0.01 | 28.7 | B | 0.01 | 11.4 | B | 0.04 | 14.9 | D | 0.01 | 29.2 |
| Delavan Avenue |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Southbound LTR | D | 0.31 | 27.6 | C | 0.17 | 19.1 | C | 0.17 | 22.1 | D | 0.31 | 27.8 | C | 0.17 | 19.2 | C | 0.17 | 22.6 |

