## Ref.: 19053

December 27, 2019

Ms. Kim Rock<br>Institution for Savings<br>93 State Street<br>Newburyport, MA 01950

## Reg.: Institution for Savings Expansion

93 State Street, Newburyport, MA

## Dear Kim:

Ron Müller \& Associates (RMA) has prepared this letter to document the expected traffic generation of a proposed 8,880 square foot expansion to the existing 12,510 square foot Institution for Savings in Newburyport, Massachusetts. The total building footprint is proposed to be 21,390 square feet and employees on site will be increased from 23 to 30 . Onsite parking will be reduced from 36 to 30 spaces. As proposed, the expansion will consist of additional office space to support the headquarters function of the Institution for Savings and will not be retail banking space. Access to the site will remain on State Street and Prospect Street with the easterly site driveway on Prospect Street providing access to the proposed parking garage on the first floor of the office addition.

To estimate the increase in traffic generation at the site, the $10^{\text {th }}$ Edition of the Institute of Transportation Engineers (ITE) Trip Generation Manual ${ }^{1}$ was used. While the existing building also provides retail banking services, the proposed expansion will only provide increased office space to support the bank headquarters. Accordingly, ITE Land Use Code 715 (Single Tenant Office Building) was used to estimate the traffic generation of the proposed expansion. A summary of the trip-generation characteristics of the proposed development project is provided in Table 1 and the trip generation worksheet is attached to this letter.

[^0]Ms. Kim Rock

December 27, 2019
Page 2 of 3

## Table 1 <br> Trip Generation Summary

| Time Period | Single Tenant Office Building $8,800 \mathrm{sf}^{\mathrm{a}}$ |
| :---: | :---: |
| Weekday Daily | 100 |
| Weekday AM Peak Hour |  |
| Enter | 14 |
| Exit | 2 |
| Total | 16 |
| Weekday PM Peak Hour |  |
| Enter | 2 |
| Exit | $\underline{13}$ |
| Total | 15 |

${ }^{\text {a }}$ ITE Land Use Code 715 (Single Tenant Office Building).

As shown in the table, the project would generate 100 vehicle trips on a typical weekday(half entering and half exiting the site) of which 16 trips ( 14 entering and 2 exiting) would occur during the weekday AM peak hour (one hour between 7:00 and 9:00 AM) and 15 trips ( 2 entering and 13 exiting) would occur during the weekday PM peak hour (one hour between 4:00 and 6:00 PM).

The distribution of traffic generated by the project is based on Journey-to-Work data provided by the U.S. Census Bureau for people working in Newburyport. A summary of the Journey-to-Work data is attached. It is accordingly expected that approximately 55-percent of the site traffic will be oriented to/from the west on High Street (Route 1A). Due to the directionality of State Street it is expected that this traffic will enter the site via Harris Street and the State Street driveway. It is further expected that 30-percent of the site traffic will be oriented from the north on State Street and enter the site using both the State Street and the Prospect Street driveways. The remaining 15percent of site traffic is expected to be oriented to/from the east on Temple Street entering the site from both the State Street and Prospect Street driveways.

Accordingly, north of the State Street site driveway the project is expected to add between one and six peak hour vehicle trips to State Street, averaging approximately one additional vehicle every 10 to 60 minutes during peak hours. South of the State Street site driveway, the project is expected to add between two and 11 peak hour vehicle trips on State Street, averaging approximately one additional vehicle every $51 / 2$ to 30 minutes during peak hours. Along Harris Street, the project is expected to add between one and eight additional trips during peak hours, averaging approximately one additional vehicle every $71 / 2$ to 60 minutes. On Prospect Street, the project is expected to add

Ms. Kim Rock
December 27, 2019
Page 3 of 3
between one and three peak hour vehicle trips, averaging approximately one additional vehicle every 20 to 60 minutes during peak hours. These increases are negligible and well within the daily fluctuation in traffic and are therefore not expected to have an operational impact on area streets.

Please feel free to contact me should you have any questions regarding these estimates or conclusions.

Sincerely,

## Ron Müller \& Associates



Ronald Müller, P.E.
Principal
Attachments

Institute of Transportation Engineers (ITE); 10th Edition
Land Use Code (LUC) 715 - Single Tenant Office Building
General Urban/Suburban Location

## AVERAGE WEEKDAY DAILY

```
T = 11.25 * (X)
T=99.90
T=100 vehicle trips
        with 50% ( 50 vph) entering and 50% ( 50 vph) exiting.
```

WEEKDAY AM PEAK HOUR OF GENERATOR
$\mathrm{T}=1.68 *(\mathrm{X})+17.26$
$\mathrm{T}=32.18$
$\mathrm{T}=30 \quad$ vehicle trips with $89 \%$ ( 27 vpd) entering and $11 \%$ ( $3 \quad$ vpd) exiting.

WEEKDAY AM PEAK AVG. RATE
$\mathrm{T}=1.78 *(\mathrm{X})$
$\mathrm{T}=15.8$
$\mathrm{T}=16$
with 14 entering and 2 exiting

WEEKDAY PM PEAK AVG. RATE
$\mathrm{T}=1.71 *(\mathrm{X})$
$\mathrm{T}=15.2$
$\mathrm{T}=15$
with 2 entering and 13 exiting


|  |  | \% \% \% |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 遃 |  | \%i้ | \% | \%o้ |  | \%oi |
|  |  | oio io io io io | ® | \% ¢ | \% | \%i้ \% | \% ¢ | \% |






[^0]:    ${ }^{1}$ Trip Generation Manual, $10^{\text {th }}$ Edition; Institute of Transportation Engineers; Washington, DC; 2017.

