



1849 Pond Run
Auburn Hills, MI 48326

844.813.2949
peagroup.com

January 05, 2024
PEA Group Project: 21-0512

Mr. Chris McLeod
Planning Manager
City of Rochester Hills Planning & Economic Development Department
1000 Rochester Hills Boulevard
Rochester Hills, Michigan

**RE: North Hill Shopping Center Outlot Redevelopment
J2023-0127/PSP2023-0025**

Dear Mr. McLeod:

Our office is in receipt of the review comments from the various City Department regarding the subject project. Our office has reviewed the comment and have made several revisions/modifications to plans included with this resubmittal. Please note the following response to the comments received:

Cover Sheet:

1. The applicant will submit a land improvement permit application after receipt of site plan approval.

C-1.0:

1. We have added a note to the plans stating that a building permit application is required for the demolition of the existing building.

C-2.0:

1. Per our email discussions, an additional connection is not required from Rochester Road connection.
2. A second "place of interest" has been added to the revised plan. An additional seating area has been added to the proposed northerly walk connection to Rochester Road.

C-3.1:

1. Due to the location of the door at the northwest corner of the building, the installation of the requested ramp is not possible.

C-3.2:

1. Note #9 has been removed from the "Rochester Hills Fire Department Notes".
2. The Building Type VB has been added to the plans.

3. The Building Area has been corrected to be 11,025 square feet.
4. A flow test was completed on January 2, 2024. A copy of the report is attached for reference.
5. The proposed development does not have an existing underground storm water detention system and one is not proposed.

C-4.0:

1. Maximum 2% cross slope is noted.

L-1.0:

1. The zoning designation in the "landscape calculation" table has been revised.

A-1& A-2:

1. All comments have been addressed.

PH-1:

1. All other comments have been addressed.

If you should have any additional comments regarding this project, please feel free to contact this office directly.

Sincerely,

PEA Group



James P. Butler, PE
Project Executive/Principal

Enclosure: Flow Test Results (01-02-2024)

**CITY OF ROCHESTER HILLS
HYDRANT FLOW TEST**

Date: Jan 2, 2024 Time: 1:30 PM

Test Performed By: W. RYBAK M. GREENWOOD

Location: 1467 Rochester Rd

Calculations Performed By: WAYNE RYBAK

Number of Hydrants Flowing: 1

Number of Outlets Open: 1

Size of Outlet, D (inches): 3 3/4

Friction Loss Coefficient, C_d : 9

Static Pressure, P_s (psi): 74

Residual Pressure, P_r (psi): 60

Pico Pressure, P_p (psi): 31

Residual Flow, Q_r (GPM): 2103 / 1745* $Q_r = 29.83 C_d D^2 (P_p)^{0.5} \# \text{Outlets}$

Fire Flow at 20 psi, Q_f (GPM): 4359 / 3612* $Q_f = Q_r [(P_s - 20) / (P_r - P_p)]^{0.55}$

Supply Main Size (pico hydrant): 8"

Supply Main Size (static hydrant): 8"

* Multiplied by .83 Per NFPA 291
Drawing of Flow Test Site (include location of flow & test hydrant):

