# CITY of NOVI CITY COUNCIL



Agenda Item 1 January 7, 2019

SUBJECT: Approval of the request of Applicant Erhard Motor Sales, Inc., and Developer Winfried Dahm for a Special Development Option (SDO) Agreement in the GE, Gateway East District. The subject property is 9.48 acres of land located at the southwest corner of Grand River Avenue and Meadowbrook Road, in Section 23. The applicant and Developer are proposing a 58,663 square foot car sales facility for Jaguar Land Rover.

SUBMITTING DEPARTMENT: Community Development Department - Planning Division (Community Development - Planning Development - Planning Division (Community Development - Planning Development - Planning Division (Community Development - Planning - Planning - Planning - Planning - Planning - Plann

CITY MANAGER APPROVAL:



## **BACKGROUND INFORMATION:**

The subject property comprises two parcels totaling 9.48 acres. It is located on the southwest corner of Grand River Avenue and Meadowbrook Road (Section 23). The applicant is proposing to build a 58,663 square foot car sales facility for Jaguar Land Rover. The proposed facility includes sales and service areas. The concept plan proposes 138 parking spaces for employee and visitors and 287 parking spaces for storing cars for sale. A storm water pond is proposed on the south side that also acts a buffer from the residential use on south side of Cherry Hill Road. It has access from both Meadowbrook Road and Grand River Avenue.

The subject property is located at the "entry" area of the Gateway East District, since it is located on one of the four properties at the intersection of Grand River and Meadowbrook. Following a recommendation of the Planning Commission, the City Council is authorized to approve the SDO project, which contemplates a non-residential use that would not otherwise be permitted in the GE district for these properties, subject to conditions listed in Section 3.12.2.A.ii

### Rezonina

City Council approved a rezoning request for the subject property from NCC (Non-Center Commercial) and OS-1 (Office Service) to GE (Gateway East) at their December 4, 2017 meeting. At the time of its consideration of rezoning request, the Planning Commission noted that the applicant should maintain a reasonable buffer between the parking lot and the residential uses to the south. A storm water pond is proposed on the south side that also acts a buffer from the residential use on south side of Cherry Hill Road.

### City Council Action

The City Council held a public hearing on the proposed Concept Plan at the November 13, 2018 City Council meeting. Tentative approval of the plan was granted at that time, subject to a number of conditions, and direction was provided for the City Attorney to prepare an SDO Agreement to be brought back before the City Council for final approval. Relevant minutes from the City Council meeting are attached. The City Council is now asked to consider final approval of the Concept Plan and Special Development Option Agreement, as drafted.

At the November 13, 2018 meeting, the City Council inquired about any possible efforts towards sustainable design of the site such as permeable pavers, renewable energy, native plants, and stormwater runoff capture. The applicant proposes 100 percent LED lighting, tankless water heaters and water-based paints on the interior and exterior of the building. The applicant continues to research recycling the rinse water from their car wash. More details are provided in the applicant's e e-mail dated December 20, 2018 (attached).

The following deviations have been noted in the agreement, as reviewed previously on the Concept Plan:

- a. Planning deviation from Section 3.11.8 for absence of required sidewalk along Cherry Hill Road due to existing wetlands;
- b. Deviations from Section 5.15. Exterior Building Wall Façade Materials for the following:
  - i. Underage of brick (30 percent minimum required, 25 percent on north façade and 28 percent on east façade proposed);
  - ii. Overage of flat metal panels (50 percent maximum allowed, 58 percent on north façade and 56 percent on east façade proposed);
  - iii. Overage of horizontal rib metal panels for roof top screening (0 percent allowed,17 percent on north, 16 percent on east, 12 percent on south and 18 percent on west proposed);
- Defer the Traffic Impact Study to the time of Preliminary Site Plan review, as the site falls under the study boundaries for the ongoing Comprehensive Traffic study by the City;
- d. Traffic deviation for variance from Design and Construction Standards Section 11-216(d) for not meeting the minimum distance required for same-side commercial driveways along Grand River Avenue;
- e. Landscape deviation from Section. 5.5.3.E.i.c for lack of street trees along Grand River Road frontage due to lack of space (8 trees required);
- f. Landscape deviation from Section. 5.5.3.E.i.c for lack of street trees along Cherry Hill Road frontage due to lack of space (8 trees required);
- g. Landscape deviation from Section 5.5.3.B.ii and iii for not providing greenbelt berm or plantings in area of wetland in order to preserve wetland along Cherry Hill Road frontage;
- h. Landscape deviation from Section 5.5.3.B.ii and iii for not providing greenbelt berm or plantings between Cherry Hill and the parking lot area not behind the wetland;

### RECOMMENDED ACTION:

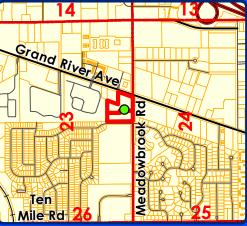
Approval of the request of Applicant Erhard Motor Sales, Inc., and Developer Winfried Dahm for a Special Development Option (SDO) Agreement for the Jaguar Land Rover development JSP17-65, consisting of a 58,663 square foot car sales facility, subject to execution of the Consent to Agreement by the Owners of the property and also subject to final review and approval of the Agreement as to form, including any required minor and non-substantive changes, by the City Manager and City Attorney's office. This motion is made because the Agreement meets the spirit and intent of the tentative approval granted by the City Council at the meeting of November 13, 2018.

# **MAPS** Location Zoning Future Land Use Natural Features

# **JSP 17-65: JAGUAR LANDROVER**

Location





### LEGEND





# **City of Novi**

Dept. of Community Development City Hall / Civic Center 45175 W Ten Mile Rd Novi, MI 48375 cityofnovi.org

Map Author: Sri Komaragiri Date: 09/21/18 Project: JSP 17-65: JSP 17-65: JAGUAR LANDROVER

37.5 75 150 2

1 inch = 169 feet

### MAP INTERPRETATION NOTICE

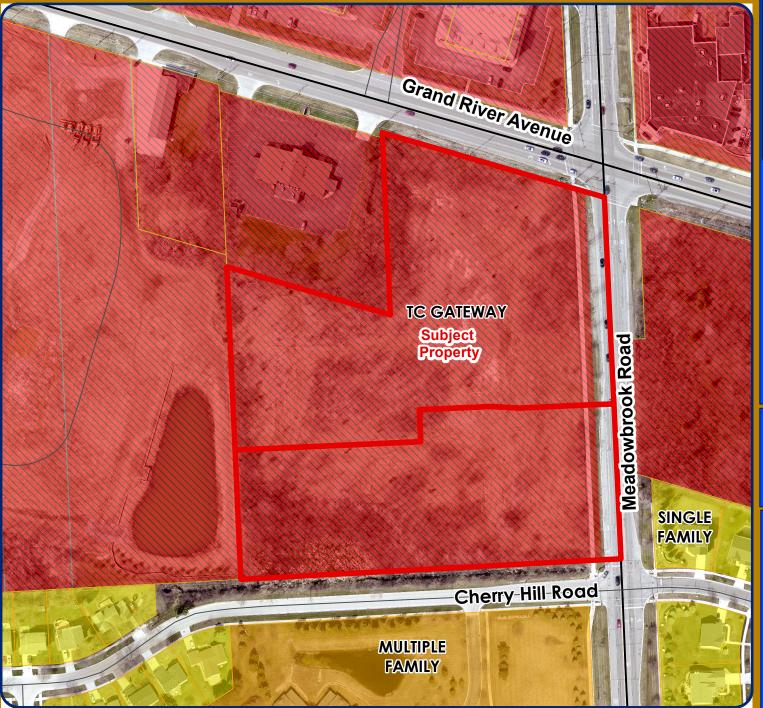
Map information depicted is not intended to replace or substitute for any official or primary source. This map was intended to meet National Map Accuracy Standards and use the most recent, accurate sources available to the people of the City of Novi. Boundary measurements and area calculations are approximate and should not be construed as survey measurements performed by a licensed Michigan Surveyor as defined in Michigan Public Act 132 of 1970 as amended. Please contact the City GIS Manager to confirm source and accuracy information related to this map.

### **JSP 17-65: JAGUAR LANDROVER** Eleven Mile Rd **Zoning** Grand River Ave NCC Meddowbrook Grand River Avenue GE Ten Mile Rd NCC **LEGEND** R-1: One-Family Residential District R-2: One-Family Residential R-4: One-Family Residential District RM-1: Low-Density Multiple Family RM-2: High-Density Multiple Family MH: Mobile Home District B-1: Local Business District B-3: General Business District GE: Gateway East District I-1: Light Industrial District I-2: General Industrial District Subject NCC: Non-Center Commercial District Meadowbrook Road OS-1 OS-1: Office Service District **Property** OSC: Office Service Commercial P-1: Vehicular Parking District GE TC-1: Town Center -1 District **U**E City of Novi **Dept. of Community Development** City Hall / Civic Center 45175 W Ten Mile Rd Novi. MI 48375 cityofnovi.org Map Author: Sri Komaragiri Project: JSP 17-65: JSP 17-65: JAGUAR LANDROVER Version #: 1 0 37.5 75 Cherry Hill Road **R-4** 1 inch = 169 feet MAP INTERPRETATION NOTICE **RM-2** R-4

of 1970 as amended. Please contact the City GIS Manager to confirm source and accuracy information related to this map.

# **JSP 17-65: JAGUAR LANDROVER**

**Future Landuse** 





### **LEGEND**

**FUTURE LAND USE** 

Single Family

Multiple Family

Mobile Home Park

Community Office

Office Commercial Industrial RD Tech

XX Heavy Industrial

Local Commercial

Community Commercial TC Commercial

TC Gateway

Educational Facility

Public

Private Park



# **City of Novi**

**Dept. of Community Development** City Hall / Civic Center 45175 W Ten Mile Rd Novi. MI 48375 cityofnovi.org

Map Author: Sri Komaragiri Date: 09/21/18
Project: JSP 17-65: JSP 17-65: JAGUAR LANDROVER
Version #: 1
Feet

0 37.5 75

1 inch = 169 feet

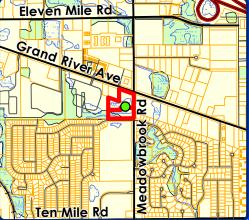
### MAP INTERPRETATION NOTICE

of 1970 as amended. Please contact the City GIS Manager to confirm source and accuracy information related to this map.

# **JSP 17-65: JAGUAR LANDROVER**

**Natural Features** 





### LEGEND





# **City of Novi**

Dept. of Community Development City Hall / Civic Center 45175 W Ten Mile Rd Novi, MI 48375 cityofnovi.org

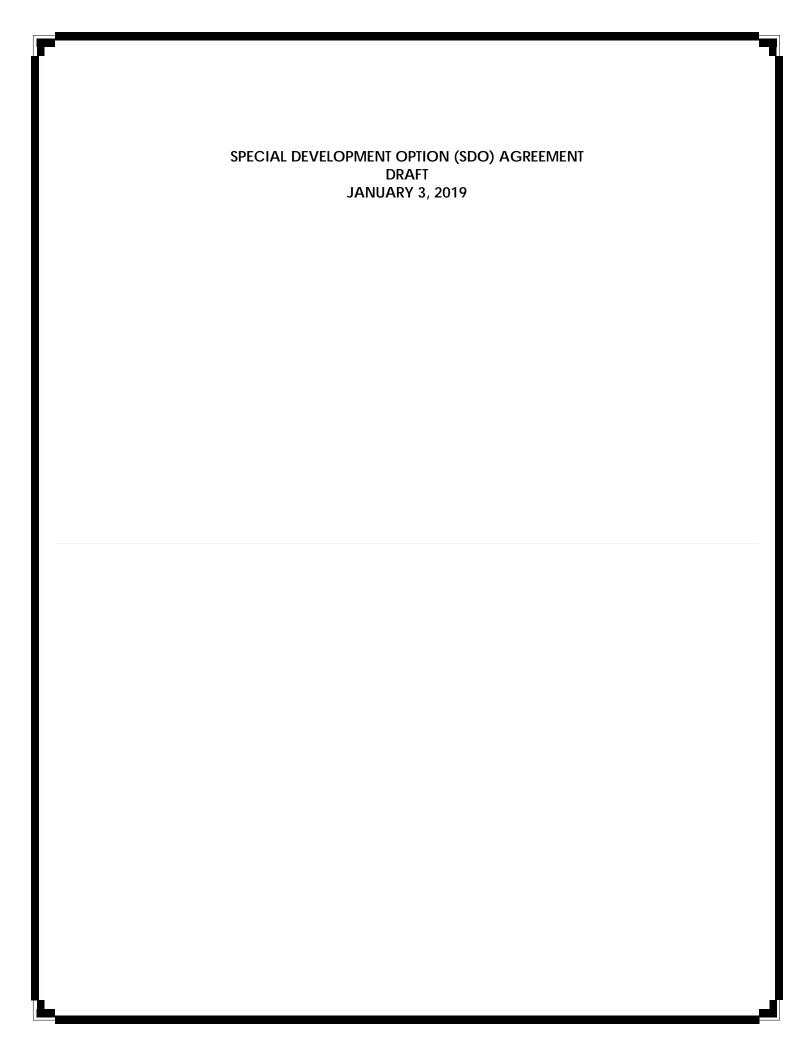
Map Author: Sri Komaragiri Date: 09/21/18 Project: JSP 17-65: JSP 17-65: JAGUAR LANDROVER



1 inch = 169 feet

### MAP INTERPRETATION NOTICE

of 1970 as amended. Please contact the City GIS Manager to confirm source and accuracy information related to this map.



## STATE OF MICHIGAN COUNTY OF OAKLAND CITY OF NOVI

# ERHARD MOTOR SALES, INC. (JAGUAR LAND ROVER)

### SPECIAL DEVELOPMENT OPTION (SDO) AGREEMENT

AGREEMENT, dated January \_\_\_, 2019, by and between the City of Novi, whose address is 45175 Ten Mile Road, Novi, MI, 48375 (the "City") and Winfried Dahm, whose address is 1845 S. Telegraph Road, Bloomfield Hills, MI 48302 (the "Developer").

### **RECITALS:**

- 1. Developer is the prospective purchaser and developer of a parcel of real property (the "Property") within the City that was approved for development as an automobile dealership facility to be known as "Jaguar Land Rover" (generally referred to hereafter as the "Project") as more fully described herein. The legal description of the Property is attached as **Exhibit A**.
- 2. The Property is currently owned by Novi Physicians Group, a Michigan co-partnership, whose address is 2150-B Franklin Road, Bloomfield Hills, MI 48302 (as to Parcel No. 22-23-251-018) and Cherry Hill Holdings, LLC, a Michigan limited liability company, whose address is 2150-B Franklin Road, Bloomfield Hills, MI 48302 (as to Parcel No. 22-23-251-019).
- 3. Erhard Motor Sales, Inc. ("Applicant"), whose address is 1845 S. Telegraph Road, Bloomfield Hills, MI 48302, submitted the application to develop the Project using the Gateway East District Special Development Option ("SDO") pursuant to Sections 3.11 and 3.12 of the City of Novi Zoning Ordinance (the "Zoning Ordinance"). Developer is the President of Applicant.
- 4. Tentative approval of Developer's SDO Concept Plan was granted by the Novi City Council pursuant to the procedure and requirements of Section 3.12, following the recommendation of the Planning Commission dated September 26, 2018, subject to certain terms and conditions established by the Novi City Council on November 13, 2018.
- 5. For final approval of the SDO Concept Plan, City Council must approve this SDO Agreement and this Agreement must be recorded against the Property. Physical development of the

Project shall not commence until after the City Council approves a site plan (the "Site Plan") in accordance with the requirements of Sections 6.1 and 3.12.7.A. of the Zoning Ordinance, and the City's staff and consultants complete the review of the Site Plan, including other administrative procedures.

- 6. The City desires to ensure that all the Property that is depicted on the approved SDO Concept Plan is developed in accordance with, and used for the purposes permitted by, the SDO Documents (as defined herein) and in accordance with this Agreement, and all applicable laws, ordinances, regulations, and standards. Developer desires to obtain further approvals and the issuance of permits required to develop the Property in accordance with the SDO Documents (as defined herein) and in accordance with this Agreement. Set forth below are the terms and conditions of this Agreement for the Project. This Agreement is to be recorded with the Register of Deeds for the County of Oakland following execution by the parties.
- 7. As part of the application process, Developer has offered and agreed to make the improvements to the Property as set forth in the approved SDO Concept Plan, has proposed certain conditions as part of its SDO Concept Plan, and has asked for certain deviations from Zoning Ordinance standards. Developer agrees to proceed as described in this Agreement, which Developer and the City agree are necessary and roughly proportional to the burden imposed in order to (i) ensure that public services and facilities affected by the Project will be capable of accommodating increased service and facility loads caused by the Project; (ii) protect the natural environment and conserve natural resources; (iii) ensure compatibility with adjacent uses of land; (iv) promote use of the Property in a socially and economically desirable manner; and (v) achieve other legitimate objectives authorized under the Michigan Zoning Enabling Act, MCL 125.3101, et seq. and the Zoning Ordinance.

### NOW, THEREFORE, IT IS AGREED AS FOLLOWS:

### I. GENERAL PROJECT DESCRIPTION

The Project is to be located on the southwest corner of Grand River Avenue and Meadowbrook Road. The Property is approximately 9.48 net acres and is currently zoned Gateway East (GE) District. The Project is to be an approximately 58,663 square foot automobile dealership to include sales, service, and vehicle parking/storage areas as further identified in the SDO Documents and in this Agreement. The architecture and design layout will meet the exterior material requirements of the Sections 3.11 and 3.12 of the Zoning Ordinance, except as specifically described herein, and shall include the superior architectural features and building design substantially as depicted in the exterior façade drawings and plans attached as exhibits to this Agreement.

Developer shall seek, obtain approval for, and use best management practices and efforts with respect to, all legally required wetland, storm water, and soil erosion requirements and measures throughout the Property during the design and construction phases, and subsequent use of the Property and development contemplated in the SDO Documents (as defined herein), including the approved SDO Concept Plan.

Developer agrees to develop and use the Property solely for the approved uses described in the SDO Documents (as defined herein), including as shown on the approved SDO Concept Plan and as described in this Agreement, subject to and in accordance with all of the specifications in the SDO Documents. Developer will forebear from developing and/or using the Property in any manner other than as approved as part of the approved SDO Concept Plan, the SDO Documents, this Agreement, and the approved Site Plan, with the understanding that, to the extent the requirements contained therein are more restrictive than the Zoning Ordinance, they supersede any and all inconsistent provisions of the Zoning Ordinance.

### II. EFFECT OF SDO AGREEMENT; USES PERMITTED

- 1. The SDO Documents shall consist of the text of and exhibits to this Agreement, including the following documents, which are attached and incorporated as **Exhibit B** (full-sized original of the Plan on file in the City Clerk's office):
  - a. SDO Concept Plan, dated August 8, 2018, containing sheets SP 0.0 through 6.2.
  - b. Architectural Plans, dated August 8, 2018, containing sheets FP-1 and ELEV.
  - c. Landscape Plans, dated August 8, 2018, containing sheets L 1.0, L 1.1 and T 1.0 and T 1.1.
  - d. Photometric Plans, dated October 03, 2018, containing sheets 1 through 3.
  - e. Open Space Plan, dated August 8, 2018 (E-mailed October 06, 2018), containing sheet SP 2.1

This Agreement, including the attached SDO Documents, shall serve as the contract contemplated under Section 3.12.6.B.d. of the Zoning Ordinance. This Agreement establishes the fundamental terms and provisions of subsequent building reviews and approvals, and all construction, use, and maintenance of the Project. The other relevant and incorporated documents include: the City of Novi City Code, including the Zoning Ordinance; the final Site Plan (as and when approved); and all conditions appended to the approved final Site Plan.

- Approval of this Agreement entitles Developer to seek appropriate approvals for construction of the Project, including Site Plan approval and any required permits, in accordance with the SDO Documents, this Agreement, and all applicable provisions of the Zoning Ordinance, as amended, and any and all other applicable laws, ordinances, and regulations.
- 3. Physical development of the Project shall be in accordance with this Agreement, the attached and incorporated SDO Documents, and the final Site Plan.
- 4. Developer shall provide performance and financial guarantees in accordance with Chapter 26.5 of the City's Code of Ordinances, and any additional guarantees required at the time of final Site Plan approval. Developer acknowledges the need for such performance and financial guarantees given the prominent location of the Project and its impact upon the City's Gateway East District.
- 5. The City has approved the SDO Concept Plan for this Project on the basis that it meets the criteria in Sections 3.11 and 3.12 of the Zoning Ordinance for the following reasons:

- a. The project results in a recognizable and substantial benefit to the ultimate users of the project and to the community, where such benefit would otherwise be unfeasible or unlikely to be achieved by a traditional development;
- b. In relation to a development otherwise permissible as a Principal Permitted Use under Section 3.1.16.B the proposed type and density of development does not result in an unreasonable increase in the use of public services, facilities and utilities, and does not place an unreasonable burden upon the subject and/or surrounding land and/or property owners and occupants and/or the natural environment (as noted in the Community Impact Statement);
- c. Based upon proposed uses, layout and design of the overall project, the proposed building facade treatment, the proposed landscaping treatment and the proposed signage, the Special Development Option project will result in a material enhancement to the area of the City in which it is situated (as the proposed corner park and building facade are designed to enhance the gateway to Town Center);
- d. The proposed development does not have a materially adverse impact upon the Master Plan for Land Use of the City, and is consistent with the intent and spirit of this Section (as the development is consistent with the standards provided for the Special Development Option, particularly related to the four corners of the intersection of Grand River and Meadowbrook Road);
- e. In relation to a development otherwise permissible as a Principal Permitted Use under Section 3.1.16.B, the proposed development does not result in an unreasonable negative economic impact upon surrounding properties (as the proposed use is comparable to the vehicle dealership on the opposite corner, and the proposed placement of the building near Grand River Avenue and Meadowbrook Road Right of Way, along with the proposed landscaping provide buffers to the nearby residential uses);
- f. The proposed development contains at least as much usable open space as would be required in this Ordinance in relation to the most dominant use in the development (as the applicant has provided two usable open space areas for public use as part of the development);
- g. Each particular proposed use in the development, as well as the size and location of such use, results in and contributes to a reasonable and mutually supportive mix of uses on the site, and a compatibility of uses in harmony with the surrounding area and other downtown areas of the City (as the use is compatible with an existing car dealership use on the northeast corner of Grand River Avenue and Meadowbrook Road, and other commercial uses along Grand River);
- h. The proposed development is under single ownership and/or control such that there is a single person or entity having responsibility for completing the project in conformity with this Ordinance (as the proposed development is owned and operated by Erhard Motor Sales, Inc.);
- i. Relative to other feasible uses of the site, the proposed use will not cause any detrimental impact on existing thoroughfares in terms of overall volumes, capacity, safety, vehicular turning patterns, intersections, view obstructions, line of sight, ingress and egress, acceleration/deceleration lanes, off-street parking, off-street loading/unloading, travel times and thoroughfare level of service (as noted in Traffic Engineering review letter);

- j. Relative to other feasible uses of the site, the proposed use will not cause any detrimental impact on the capabilities of public services and facilities, including water service, sanitary sewer service, storm water disposal and police and fire protection to service existing and planned uses in the area (as noted in the Community Impact Statement);
- k. Relative to other feasible uses of the site, the proposed use is compatible with the natural features and characteristics of the land, including existing woodlands, wetlands, watercourses and wildlife habitats (as the plan does not propose any impacts to wetlands and acceptable impacts to woodlands and wetlands buffers);
- I. Relative to other feasible uses of the site, the proposed use is compatible with adjacent uses of land in terms of location, size, character, and impact on adjacent property or the surrounding neighborhood (as noted in the Community Impact Statement);
- m. Relative to other feasible uses of the site, the proposed use is consistent with the goals, objectives and recommendations of the City's Master Plan for Land Use (as the development fosters economic growth);
- n. Relative to other feasible uses of the site, the proposed use will promote the use of land in a socially and economically desirable manner; and
- o. Relative to other feasible uses of the site, the proposed use is (1) listed among the provision of uses requiring special land use review as set forth in the various zoning districts of this Ordinance, and (2) is in harmony with the purposes and conforms to the applicable site design regulations of the zoning district in which it is located.
- 6. In addition, the City Council made the following findings:
  - a. The proposed use exemplifies the intent of the GE district as stated in Section 3.1.16.A, and the intent of the SDO as stated in Section 3.1.16. (since the proposed plan provides for a high-quality and distinctive development that will complement and support the City's Main Street/Town Center area.)
  - b. The proposed use incorporates as a predominant physical component of the development that provides a unique entry feature along Grand River Avenue for the GE district, characterized by a distinct, high-profile appearance (since, in the opinion of the City's Façade consultant and Landscape Architect, the rendering provided by the applicant after the preparation of the review letters, provides a unique entry feature including a small park and attractive landscaping).
  - c. The proposed use is compatible with, and will promote, the uses permitted with the GE district and SDO.
  - d. The proposed use will not create an inconsistency with the City's Master Plan for Land Use in terms of the general activities on the site and the impacts upon the surrounding area (since the area is developed with commercial and multiple family uses, and landscape buffering is being provided to the extent possible).
  - e. The proposed use is designed in a manner that will result in traffic and pedestrian safely, consistent with the adjoining pedestrian and vehicular thoroughfares (as noted in the Traffic Engineer's Review letter).
  - f. The proposed use is designed with exceptional aesthetic quality, including building design, building materials and landscaping design, not likely to be achieved except based upon this authorization (since, in the opinion of the City's Façade consultant and Landscape Architect, the rendering provided by the applicant after the preparation of

the review letters, provides a unique entry feature including a small park and attractive landscaping).

These findings were made in reliance upon development of the Project in compliance with the SDO Documents.

- 7. The uses permitted within the Project shall consist of new and used vehicle salesrooms, showrooms, and related offices; new and used vehicle service; parts and accessory sales related thereto; outdoor space for exclusive display, storage and sale of new or used vehicles; and, related vehicle parking for customers and employees. Notwithstanding anything to the contrary contained in the SDO Documents, and to avoid confusion, the uses permitted within the Project may include the parking and display of new or used vehicles, including non-Jaguar and non-Land Rover brand used vehicles obtained from trade-ins or sales of new or used vehicles.
- 8. Minor modifications to the approved SDO Concept Plan can be approved administratively if the Zoning Ordinance would otherwise allow an administrative site plan review and approval, so long as the City Planner determines that the modifications (i) are minor, (ii) do not deviate from the general intent of the SDO Concept Plan, and (iii) result in reduced impacts on surrounding development and existing infrastructure. The City Council shall also be permitted to authorize amendments to the SDO Concept Plan in its review of the Site Plan.

Notwithstanding the foregoing, however, the following will require amendment of this Agreement:

- i. Any deviations from ordinance requirements that are not requested/approved at this time.
- ii. Any change of use.

### III. DEVIATIONS FROM ORDINANCE STANDARDS

Pursuant to Sections 3.12.6.A of the Gateway East District regulations, the City Council, as part of its approval of the SDO Concept Plan and this Agreement, grants the following departures or deviations from the requirements of the Gateway East District, having determined that such departures or deviations achieve the objectives intended with respect to each of the regulations from which the departure or deviation is sought:

- 1. Planning deviation from Section 3.11.8 for absence of required sidewalk along Cherry Hill Road due to existing wetlands;
- 2. Deviations from Section 5.15. Exterior Building Wall Façade Materials for the following:
  - a. Underage of brick (30% minimum required, 25% on north façade and 28% on east facade proposed);
  - b. Overage of flat metal panels (50% maximum allowed, 58% on north façade and 56% on east façade proposed);

- c. Overage of horizontal rib metal panels for roof top screening (0% allowed, 17% on north, 16% on east, 12% on south and 18% on west proposed);
- 3. Defer the Traffic Impact Study to the time of Preliminary Site Plan review, as the site falls under the study boundaries for the ongoing Comprehensive Traffic study by the City;
- 4. Traffic deviation for variance from Design and Construction Standards Section 11-216(d) for not meeting the minimum distance required for same-side commercial driveways along Grand River Avenue:
- 5. Landscape deviation from Section 5.5.3.E.i.c for lack of street trees along Grand River Road frontage due to lack of space (8 trees required);
- 6. Landscape deviation from Section 5.5.3.E.i.c for lack of street trees along Cherry Hill Road frontage due to lack of space (8 trees required);
- 7. Landscape deviation from Section 5.5.3.B.ii and iii for not providing greenbelt berm or plantings in area of wetland in order to preserve wetland along Cherry Hill Road frontage;
- 8. Landscape deviation from Section 5.5.3.B.ii and iii for not providing greenbelt berm or plantings between Cherry Hill and the parking lot area not behind the wetland.

### IV. CONDITIONS OF APPROVAL

- 1. The Developer shall work with City's Façade consultant to provide alternate design elements to meet the intent of Section 3.11.8;
- 2. Developer shall comply with the applicable conditions and items listed in the following staff and consultant review documents included within the staff report for the November 13, 2018 City Council meeting: (a) Planning Review dated September 7, 2018 by Sri Komaragiri; (b) Engineering Review dated September 5, 2018 by Darcy Rechtien, P.E.; (c) Landscape Report dated August 29, 2018 by Rick Meader, Landscape Architect; (d) Façade Review Letter of August 29, 2018 from DRN & Associates; (e) Woodlands Review Letter dated August 29, 2018 from Pete Hill of Environmental Consulting & Technology, Inc.; (f) Wetland Review Letter dated August 29, 2018 from Pete Hill of Environmental Consulting & Technology, Inc.; Fire Review Letter of August 16, 2018; (g) Traffic Review Memo of August 30, 2018 from AECOM; and, (h) Applicant's Response Letter dated September 18, 2018 from of Becky Klein of PEA, Inc.
- 3. Approval of any required final Site Plan for the development of the Property in accordance with the Zoning Ordinance and all other applicable standards, rules, and regulations, and compliance with all requirements of the Engineering Department as permitted by the Zoning Ordinance.
- 4. All improvements shown in the SDO Documents shall be completed in accordance with applicable ordinances and regulations.
- 5. All loading and unloading from car carriers shall occur at non-peak traffic hours.

6. Remaining woodlands and wetlands areas on the southerly portion of the Property are to be placed in a conservation easement, in a form and manner to be approved by the City attorney, in accordance with applicable ordinances and regulations.

### V. GENERAL PROVISIONS

- 1. Except with respect to appeals from the applicable standards of the City's Sign Ordinance, the Zoning Board of Appeals (ZBA) shall have no jurisdiction over the Property or the application of this Agreement until after final Site Plan approval and construction of the development as approved therein with regard to the roads and utilities. In no event shall the ZBA be permitted to vary any terms or conditions of this Agreement.
- 2. Except as may be specifically modified by this Agreement, the City Code and all applicable regulations of the City shall apply to the Property. Any substantial violation of the City Code by Developer and/or any successor owners or occupants with respect to the Property shall be deemed a breach of this Agreement, as well as a violation of the City Code. The failure of the Developer to commence construction of the Project shall not be deemed a breach of this Agreement.
- 3. A breach of this Agreement shall constitute a nuisance per se, which shall be abated. Developer and the City therefore agree that, in the event of a breach of this Agreement by Developer, the City, in addition to any other relief to which it may be entitled at law or in equity, or any other provisions of this Agreement, shall be entitled under this Agreement to relief in the form of specific performance and an order of the court requiring abatement of the nuisance per se. In the event of a breach of this Agreement, the City may notify Developer of the occurrence of the breach and issue a written notice requiring the breach be cured within thirty (30) days; provided, however, that if the breach, by its nature, cannot be cured within thirty (30) days, Developer shall not be in the breach hereunder if Developer commences the cure within the thirty (30) day period and diligently pursues the cure to completion. Failure to comply with such notice shall, in addition to any other relief to which the City may be entitled in equity or at law, render Developer liable to the City in any suit for enforcement for actual costs incurred by the City including, but not limited to, attorneys' fees, expert witness fees and the like.
- 4. This Agreement may not be amended except in writing signed by the parties and recorded in the same manner as this Agreement. In the event Developer desires to propose an amendment to this Agreement, an application shall be made to the City in the manner required by the then existing Zoning Ordinance, and the City shall process the application in accordance with the procedures set forth in such Zoning Ordinance.
- 5. Both parties understand and agree that if any part, term, or provision of this Agreement is held by a court of competent jurisdiction, and as a final enforceable judgment, to be illegal or in conflict with any law of the State of Michigan or the United States, the validity of the remaining portions or provisions shall not be affected, and the rights and obligations of the parties shall be construed and enforced as if this Agreement did not contain the particular part, term, or provisions held to be invalid.

- 6. The Agreement shall be governed by the laws of the State of Michigan, both as to interpretation and performance. Any and all suits for any and every breach of this Agreement may be instituted and maintained in any court of competent jurisdiction in the County of Oakland, State of Michigan.
- 7. No waiver of any breach of this Agreement shall be held to be a waiver of any other or subsequent breach. A delay in enforcement of any provision of this Agreement shall not be construed as a waiver or estoppel of the City's right to eventually enforce, or take action to enforce, the terms of this Agreement. All remedies afforded in this Agreement shall be taken and construed as cumulative; that is, all remedies afforded in this Agreement are in addition to every other remedy provided by law.
- 8. The signers of this Agreement warrant and represent that they have the authority to sign this Agreement on behalf of their respective principals and the authority to bind each party to this Agreement according to its terms. Further, each of the parties represents that the execution of this Agreement has been duly authorized and is binding on such parties.
- 9. This Agreement shall run with the land described herein as the Property and bind the parties, their heirs, successors, and assigns. This Agreement shall be recorded in the Oakland County Register of Deeds by the City. The parties acknowledge that the Property is subject to changes in ownership and/or control at any time, but that heirs, successors, and assigns shall take their interest subject to the terms of this Agreement, and all references to "Developer" in this Agreement shall also include all heirs, successors, and assigns of Developer, and all future owners of the Property. The Developer may assign this Agreement to any other person or entity in his sole discretion upon written notice to the City.
- 10. Developer has negotiated with the City the terms of the SDO Documents and this Agreement and they represent the product of the joint efforts and mutual agreements of Developer and the City. Developer fully accepts and agrees to the final terms, conditions, requirements and obligations of the SDO Documents and in this Agreement, and Developer shall not be permitted in the future to claim that the effect of the SDO Documents or Agreement results in an unreasonable limitation upon uses of all or a portion of the Property, or claim that enforcement of the SDO Documents and Agreement causes an inverse condemnation, other condemnation or taking of all or any portion of the Property. Developer and the City agree that this Agreement and its terms, conditions, and requirements are lawful and consistent with the intent and provisions of local ordinances, state and federal law, and the Constitutions of the State of Michigan and the United States of America. Developer has offered and agreed to proceed with the obligations as set forth in this Agreement in order to protect the public health, safety, and welfare and provide material advantages and development options for Developer, all of which obligations Developer and the City agree are necessary in order to ensure public health, safety, and welfare, to ensure compatibility with adjacent uses of land, to promote use of the Property in a socially, environmentally, and economically desirable manner, and to achieve other reasonable and legitimate objective of the City and Developer, as authorized under applicable City ordinances and the Michigan Zoning Enabling Act, MCL 125.3101, et seq., as amended.

- It is further agreed and acknowledged that the terms, conditions, obligations, and requirements of this Agreement are clearly and substantially related to the burdens to be created by the development and use of the Property under the approved SDO Documents, and are, without exception, clearly and substantially related to the City's legitimate interests in protecting the public health, safety and general welfare.
- 11. Developer acknowledges that, at the time of the execution of this Agreement, Developer has not yet obtained final Site Plan or engineering approvals for the Project. Developer acknowledges that the City Council and Engineering staff/consultants may impose additional conditions other than those contained in this Agreement during site plan and engineering reviews and approvals as may be authorized by law; provided, however, that such conditions shall not be inconsistent with the SDO Documents and this Agreement and shall not change or eliminate any development right authorized thereby. Such conditions of any Site Plan or engineering approval shall be incorporated into and made a part of this Agreement and shall be enforceable against the parties.
- 12. None of the terms or provisions of this Agreement shall be deemed to create a partnership or joint venture between Developer and the City.
- 13. The Recitals contained in this Agreement and all exhibits attached to this Agreement and referred to herein shall for all purposes be deemed to be incorporated in this Agreement by this reference and made a part of this Agreement. Headings are descriptive only.
- 14. This Agreement is intended as the complete integration of all understandings between the parties related to the subject matter herein. No prior contemporaneous addition, deletion, or other amendment shall have any force or effect whatsoever, unless embodied herein in writing. No subsequent notation, renewal, addition, deletion or other amendment shall have any force or effect unless embodied in a written amendatory or other agreement executed by the parties required herein, other than additional conditions which may be attached to Site Plan approvals as stated above.
- 15. The parties intend that this Agreement shall create no third-party beneficiary interest except for an assignment pursuant to this Agreement. The parties are not presently aware of any actions by them or any of their authorized representatives which would form the basis for interpretation construing a different intent and expressly disclaim any such acts or actions, particularly in view of the integration of this Agreement.
- 16. Where there is a question with regard to applicable regulations for a particular aspect of the Development, or with regard to clarification, interpretation, or definition of terms or regulations, and there are no apparent express provisions of the SDO Documents or this Agreement that apply, the City, in the reasonable exercise of its discretion, shall determine the regulations of the City's Zoning Ordinance, as that Ordinance may have been amended, or other City Ordinances that shall be applicable; provided, however, that such determination shall not be inconsistent with the nature and intent of the SDO Documents and this Agreement and shall not change or eliminate any development right authorized by the SDO Documents and this Agreement. In the event of a conflict or inconsistency between two or more provisions of the SDO Documents (including notes thereto) and/or

this Agreement, or between such documents and applicable City ordinances, the more restrictive provision, as determined in the reasonable discretion of the City, shall apply.

- 17. Both parties acknowledge and agree that they have had the opportunity to have the SDO Documents and this Agreement, reviewed by legal counsel.
- 18. This Agreement may be signed in counterparts.

[Signatures appear on the following page]

WITNESSES:		DEVELOPER:
		By: Its:
STATE OF MICHIGAN COUNTY OF	) ) ss )	
The foregoing of		edged before me by, on the da
		Notary Public County, Michigan Acting in County, Michigan My Commission Expires:
WITNESSES:		CITY OF NOVI:
		By: Robert J. Gatt Its: Mayor
		By: Cortney Hanson Its: Clerk
STATE OF MICHIGAN	)	
COUNTY OF	) ss )	
	ayor and Clerk, re	dged before me by Robert J. Gatt and Cortney Hanson respectively, of the City of Novi, on the day of
		Notary Public County, Michigan
		Acting in County, Michigan My Commission Expires:

## **CONSENT TO AGREEMENT**

The undersigned Applicant, Erhard Motor Sales, Inc., whose address is 1845 S. Telegraph Road, Bloomfield Hills, MI 48302, joins in and consents to the execution and recording at the Oakland County Register of Deeds of the foregoing Agreement and agrees that the Property shall be subject to, the terms of the foregoing Agreement.

Dated:	, 2019	
		Erhard Motor Sales, Inc.
		By: Winfried Dahm Its:
STATE OF MICHIGAN ) COUNTY OF OAKLAND )	SS	
	c., who states that	, 2019, before me appeared Winfred Dahm, he has signed this document of his own free will,
		Notary Public County, Michigan Acting in County, Michigan My Commission Expires:

## **CONSENT TO AGREEMENT**

The undersigned Property owner, Novi Physicians Group, a Michigan Co-Partnership, whose address is 2150-B Franklin Road, Bloomfield Hills, MI 48302, joins in and consents to the execution and recording at the Oakland County Register of Deeds of the foregoing Agreement and agrees to be bound by, and the Property shall be subject to, the terms of the foregoing Agreement.

Dated:,	2019	
		Novi Physicians Group, A Michigan Co-Partnership.
		By: Richard Atto Its: Partner
STATE OF MICHIGAN ) ) ss COUNTY OF OAKLAND )		
of Novi Physicians Group, a	Michigan Co-Pai	, 2019, before me appeared Richard Atto, rtnership, who states that he has signed this on behalf of the co-partnership.
		Notory Dublic
		Notary Public County, Michigan
		Acting in County, Michigan
		My Commission Expires:

## **CONSENT TO AGREEMENT**

The undersigned Property owner, Cherry Hill Holdings, L.L.C., a Michigan limited liability company, whose address is 2150-B Franklin Road, Bloomfield Hills, MI 48302, joins in and consents to the execution and recording at the Oakland County Register of Deeds of the foregoing Agreement and agrees to be bound by, and the Property shall be subject to, the terms of the foregoing Agreement.

Dated:	, 2019	
		Cherry Hill Holdings, L.L.C., A Michigan limited liability company
		By: Richard Atto Its: Manager
STATE OF MICHIGA	) ss	
of Cherry Hill Hold	ings, L.L.C., a Mich	, 2019, before me appeared Richard Atto, nigan limited liability company, who states that he has e will, duly authorized on behalf of the limited liability
		Notary Public County, Michigan Acting in County, Michigan My Commission Expires:

### **EXHIBIT A**

### **Legal Description of Property**

The land referred to in this commitment is described as follows: City of Novi, County of Oakland, State of Michigan

### Parcel 1:

Part of the Northeast 1/4 of Section 23, Town 1 North, Range 8 East, City of Novi, Oakland County, Michigan: Beginning at a point distant North 89 degrees 58 minutes 54 seconds West 669.86 feet and North 00 degrees 32 minutes 05 seconds East 227.42 feet from the East 1/4 corner; thence North 00 degrees 32 minutes 05 seconds East 321.46 feet; thence South 70 degrees 37 minutes 26 seconds East 300 feet; thence North 00 degrees 32 minutes 05 seconds East 321.43 feet; thence South 70 degrees 37 minutes 26 seconds East 407.28 feet; thence South 00 degrees 29 minutes 39 seconds West 363.23 feet; thence North 89 degrees 30 minutes 21 seconds West 167 feet; thence North 83 degrees 24 minutes 25 seconds West 50.27 feet; thence North 89 degrees 27 minutes 55 seconds West 125.65 feet; thence South 00 degrees 32 minutes 05 seconds West 56.43 feet; thence North 89 degrees 27 minutes 55 seconds West 327 feet to beginning.

### Parcel 2:

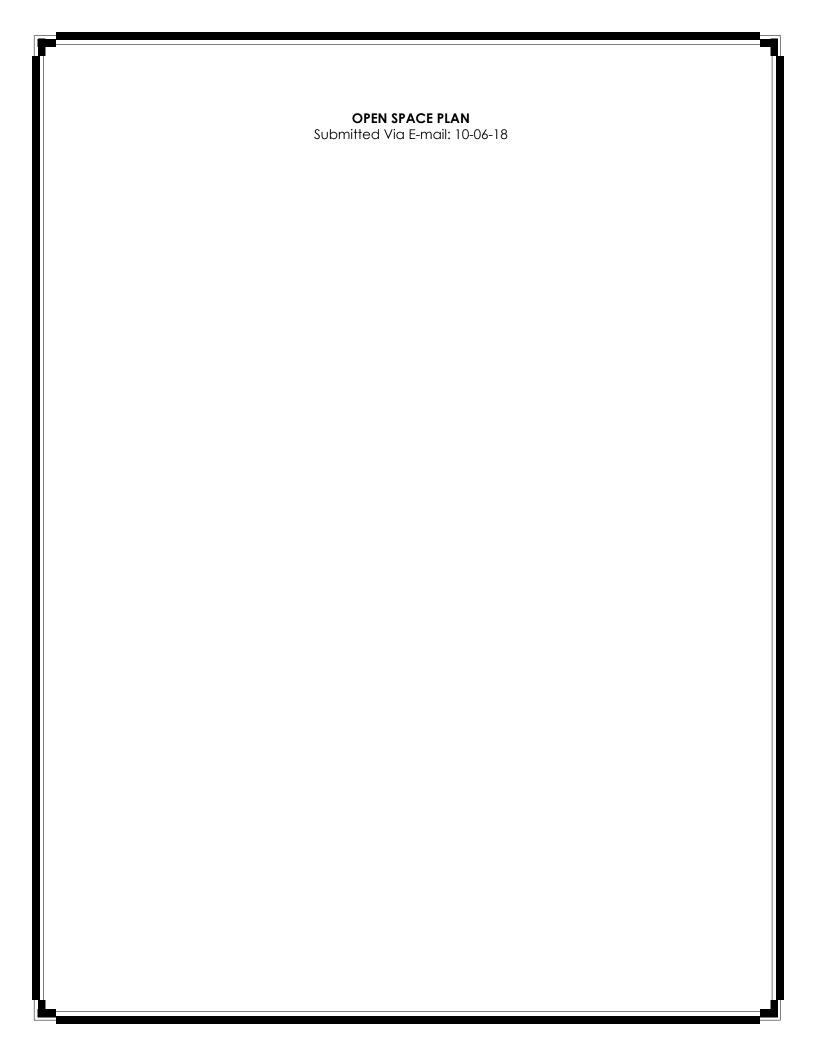
Part of the Northeast 1/4, Section 23, Town 1 North, Range 8 East, City of Novi, Oakland County, Michigan, more particularly described as: Commencing at the East 1/4 corner of said Section 23 for a point of beginning; thence North 89 degrees 58 minutes 54 seconds West 669.86 feet along the East and West 1/4 line of said Section 23 and the Northerly line of Meadowbrook Glens Subdivision No. 3, as recorded in Liber 145 of Plats, Pages 1, 2, 3 and 4, Oakland County Records; thence North 00 degrees 32 minutes 05 seconds East, 227.42 feet; thence South 89 degrees 27 minutes 55 seconds East, 327.00 feet; thence North 00 degrees 32 minutes 05 seconds East, 56.43 feet; thence South 89 degrees 27 minutes 55 seconds East, 125.65 feet; thence South 83 degrees 24 minutes 25 seconds East, 50.27 feet; thence South 89 degrees 30 minutes 21 seconds East, 167.00 feet to the East line of said Section 23 and the centerline of Meadowbrook Road; thence South 00 degrees 29 minutes 39 seconds West, 272.63 feet, along the East line of said Section 23 and the centerline of said Meadowbrook Road to the point of beginning.

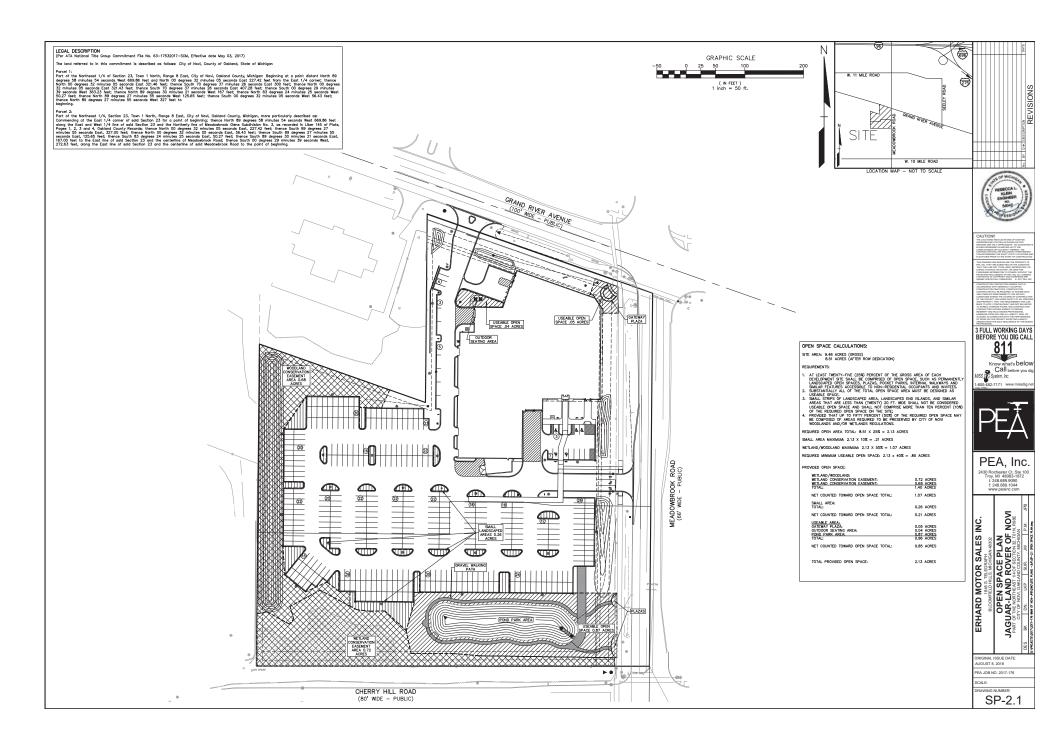
### EXHIBIT B

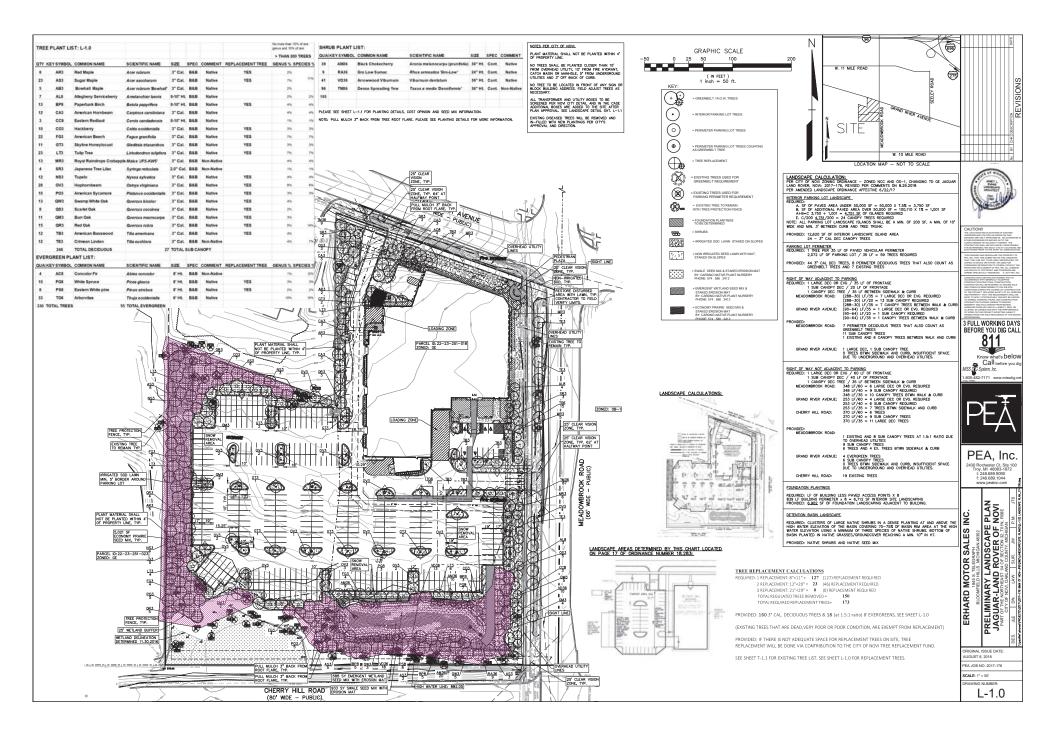
### **SDO DOCUMENTS**

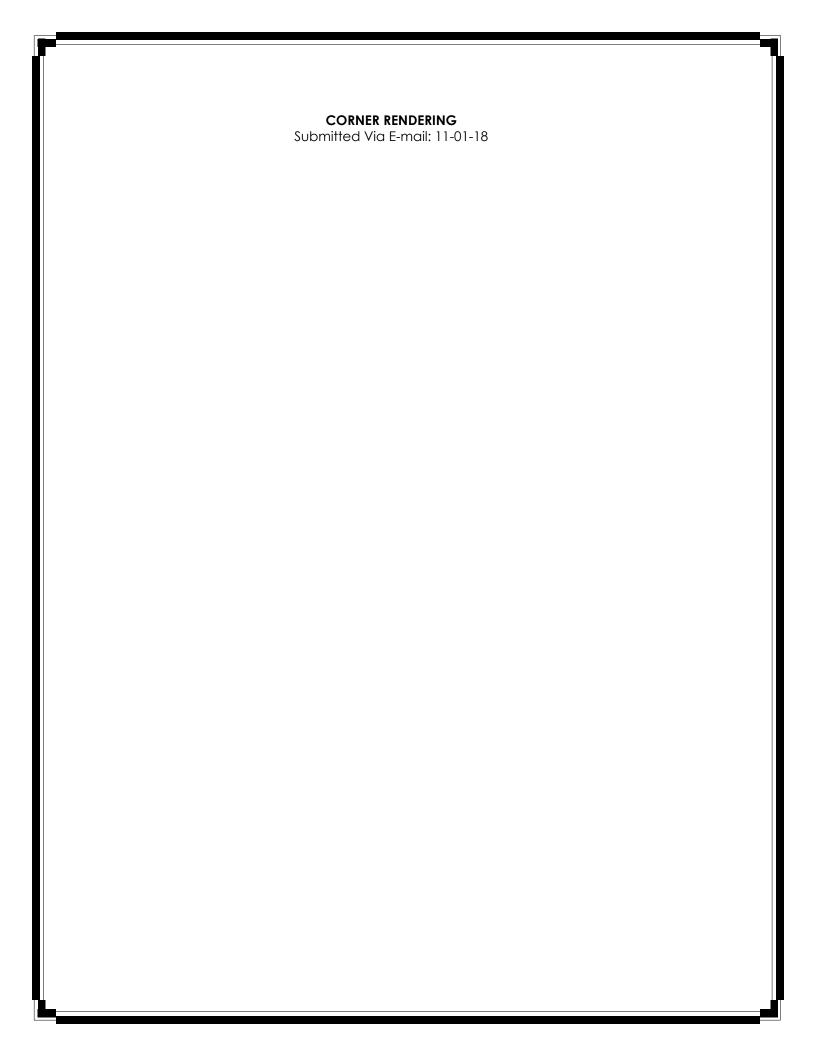
[Attached]

- 1. SDO Concept Plan, dated August 8, 2018, containing sheets SP 0.0 through 6.2.
- 2. Architectural Plans, dated August 8, 2018, containing sheets FP-1 and ELEV.
- 3. Landscape Plans, dated August 8, 2018, containing sheets L 1.0, L 1.1 and T 1.0 and T 1.1.
- 4. Photometric Plans, dated October 03, 2018, containing sheets 1 through 3.
- 5. Open Space Plan, dated August 8, 2018 (E-mailed October 06, 2018), containing sheet SP 2.1







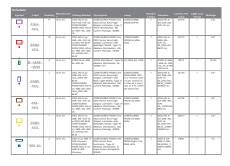




<b>REVISED PHOTOMETRIC PLAN</b> Submitted Via E-mail: 10-29-18

Jaguar Land Rover Exterior Lighting Plan Novi, MI





Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Mir
East Wall 1	+	3.0 fc	6.9 fc	0.2 fc	34.5:1	15.0:1
East Wall 2	+	0.2 fc	0.4 fc	0.0 fc	N/A	N/A
East Wall 3	+	0.0 fc	0.0 fc	0.0 fc	N/A	N/A
NE Wall	+	0.0 fc	0.0 fc	0.0 fc	N/A	N/A
North Wall 1	+	0.0 fc	0.0 fc	0.0 fc	N/A	N/A
North Wall 2	+	0.4 fc	1.2 fc	0.0 fc	N/A	N/A
North Wall 3	+	2.6 fc	6.1 fc	0.2 fc	30.5:1	13.0:1
NW Entry	+	2.1 fc	54.1 fc	0.0 fc	N/A	N/A
NW Service Entry	+	3.9 fc	51.3 fc	0.2 fc	256.5:1	19.5:1
Paved Areas	+	4.9 fc	12.4 fc	1.4 fc	8.9:1	3.5:1
Property Lines	+	0.0 fc	0.6 fc	0.0 fc	N/A	N/A
South Drive	+	5.6 fc	85.2 fc	0.3 fc	284.0:1	18.7:1
South Wall 1	+	1.6 fc	3.3 fc	0.4 fc	8.3:1	4.0:1
South Wall 2	+	0.6 fc	1.1 fc	0.2 fc	5.5:1	3.0:1
West Wall 1	+	0.8 fc	2.2 fc	0.1 fc	22.0:1	8.0:1
West Wall 2	+	1.6 fc	9.2 fc	0.1 fc	92.0:1	16.0:1

Note
1. Hours of Operation-
M/TH - 7A-9P
TAM/E - 7A-AD

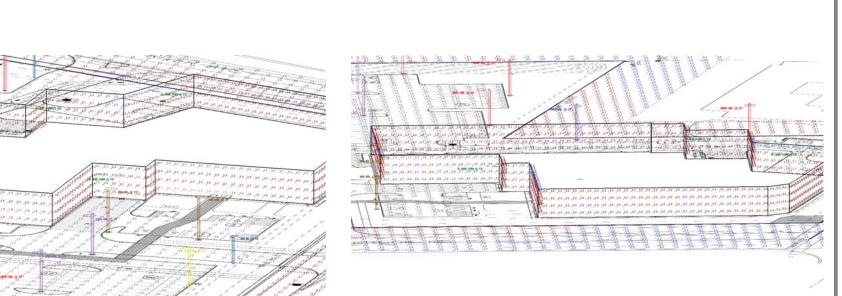
M/TH. - TA-ore
TW/F: - "A-ball

Plan View Scale - 1" = 60ft



(FD)

(2)



BG Date 10/03/18 Scale Drawing No. REV4 Summary









BG Date 10/03/18 Scale Drawing No. REV4 Summary







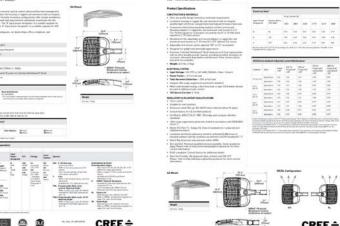














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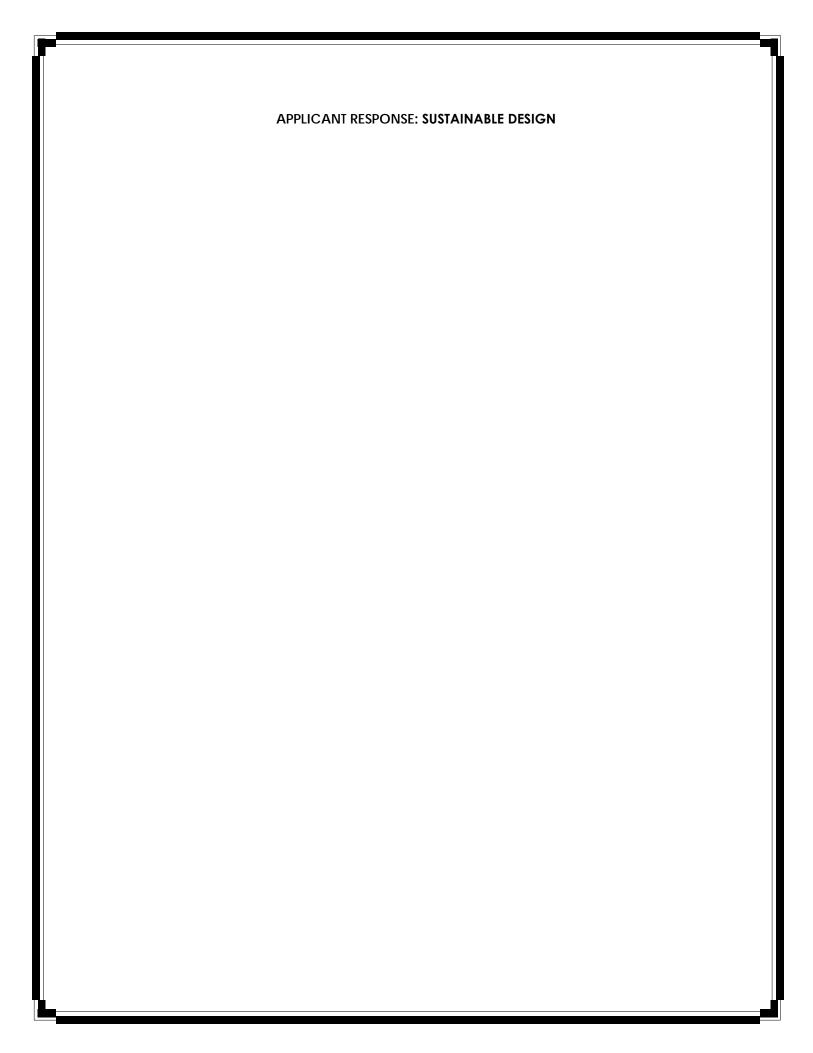
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### Komaragiri, Sri

From: Ken Widerstedt <kwiderstedt@worldoferhard.com>

Sent: Thursday, December 20, 2018 11:59 AM

To: Komaragiri, Sri
Cc: Mark Drane

**Subject:** RE: Council Comments

Sri,

We are not going to use permeable asphalt. The soil conditions on this site are not favorable for saturated base under the pavement which is the condition created with permeable pavement.

All storm water from pavement will be routed to the detention area as shown on the plans. It might be possible to utilize this water for lawn irrigation. I'll make some inquires.

As far as the interior is concerned we will use 100% led lighting, tankless water heaters and very efficient HVAC systems. All lighting and heating and cooling will be computer controlled based on time of day and occupancy.

The building will meet or exceed current energy efficiency codes which are quite stringent.

We will use only water based paints on the interior and exterior of the building.

I am going to look into recycling the rinse water from our car wash. There is a system I have seen that I would like to use.

We will be planting a large amount of trees and shrubs, most of which are native to Michigan. We will also be protecting the existing wetland to insure it is undisturbed during construction.

Thank you,

Ken Widerstedt Facility Manager

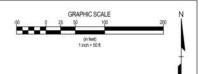
### The World of Erhard

kwiderstedt@worldoferhard.com

Erhard BMW of Bloomfield Hills Erhard BMW of Farmington Hills Jaguar Land Rover Farmington Hills AutoMark Collision Farmington Hills AutoMark Collision Bloomfield Hills

SDO CONCEPT PLAN  (Full plan set available for viewing at the Community Development Department.)





## Jaguar Land Rover of Novi

September, 2018



### APPLICANT:

PRFLIMINARY SITE PLANS FOR

ERHARD MOTOR SALES INC. 1845 S. TELEGRAPH
BLOOMFIELD HILLS, MICHIGAN 48302 CONTACT: KENNETH WIDERSTEDT PHONE: (248) 755-6414 EMAIL: KWIDERSTEDT@WORLDOFERHARD.COM

### JAGUAR-LAND ROVER OF NOVI

### SOUTHWEST CORNER OF GRAND RIVER AVENUE AND MEADOWBROOK ROAD

CITY OF NOVI. OAKLAND COUNTY. MICHIGAN

### ARCHITECT:

ROGVOY ARCHITECTS 32500 TELEGRAPH ROAD, SUITE 250 BINGHAM FARMS, MICHIGAN 48025 CONTACT: MARK DRANE PHONE: (248) 540-7700 X237 FAX: (248) 540-2710 EMAIL: MDRANE@ROGVOY.COM

### CIVIL ENGINEER:

PEA, INC. 2430 ROCHESTER CT, SUITE 100 TROY, MI 48083 CONTACT: BECKY KLEIN, PE PHONE: (248) 689-9090 EXT. 157 FAX: (248) 689-1044 EMAIL: BKLEIN@PEAINC.COM

### LANDSCAPE ARCHITECT:

7927 NEMCO WAY, SUITE 115 BRIGHTON, MI 48116 CONTACT: JEFF SMITH, R.L.A., LEED AP PHONE: (517) 546-8583 FAX: (517) 546-8973 EMAIL: JSMITH@PEAINC.COM

### LEGAL DESCRIPTION:

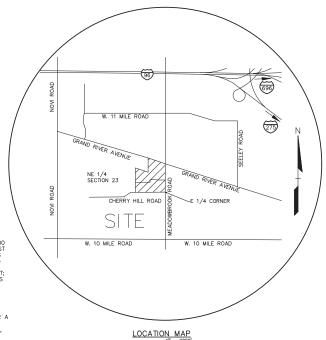
(PER ATA NATIONAL TITLE GROUP COMMITMENT FILE NO. 63-17532017-SCM. FEFECTIVE DATE MAY 03. 2017) THE LAND REFERRED TO IN THIS COMMITMENT IS DESCRIBED AS FOLLOWS: CITY OF NOVI, COUNTY OF OAKLAND, STATE OF MICHIGAN

### PARCEL 1:

PART OF THE NORTHEAST 1/4 OF SECTION 23, TOWN 1 NORTH, RANGE 8 EAST, CITY OF NOVI, OAKLAND COUNTY, MICHIGAN: BEGINNING AT A POINT DISTANT NORTH 89 DEGREES 58 MINUTES 54 SECONDS WEST 669.86 FEET AND MICHIGAN: BEGINNING AT A POINT DISTANT NORTH 89 DEGREES 58 MINUTES 54 SECONDS WEST 669.86 FEET AND NORTH 00 DEGREES 32 MINUTES 05 SECONDS EAST 227.42 FEET FROM THE FAST 1/4 CORNER; THENCE NORTH 00 DEGREES 32 MINUTES 05 SECONDS EAST 321.46 FEET; THENCE SOUTH 70 DEGREES 37 MINUTES 26 SECONDS EAST 321.43 FEET; THENCE SOUTH 70 DEGREES 37 MINUTES 26 SECONDS EAST 407.28 FEET; THENCE SOUTH 00 DEGREES 29 MINUTES 39 SECONDS WEST 363.23 FEET; THENCE NORTH 80 DEGREES 37 MINUTES 26 SECONDS WEST 367.25 FEET; THENCE SOUTH 00 DEGREES 29 MINUTES 39 SECONDS WEST 363.23 FEET; THENCE NORTH 80 DEGREES 32 MINUTES 35 SECONDS WEST 50.27 FEET; THENCE NORTH 80 DEGREES 27 MINUTES 25 SECONDS WEST 50.27 FEET; THENCE NORTH 80 DEGREES 32 MINUTES 35 SECONDS WEST 50.27 FEET; THENCE NORTH 80 DEGREES 32 MINUTES 55 SECONDS WEST 50.27 FEET TO BEGINNING, 5.62 ACRES. PARCEL ID: 22-23-251-018

### PARCEL 2:

PART OF THE NORTHEAST 1/4, SECTION 23, TOWN 1 NORTH, RANGE 8 EAST, CITY OF NOVI, OAKLAND COUNTY, MICHIGAN, MORE PARTICULARLY DESCRIBED AS: COMMENCING AT THE EAST 1/4 CORNER OF SAID SECTION 25 FOR A POINT OF BEGINNING; THE POINT OF BEGINNING; THENCE NORTH 89 DEGREES S8 MINUTES 54 SECONDS WEST 669.86 FEET ALONG THE EAST AND WEST 1/4 LINE OF SADI SECTION 23 AND THE NORTHERLY LINE OF MEADOWEROOK GLENS SUBDIVISION NO. 3, AS RECORDED IN LIBER 145 OF PLATS, PAGES 1, 2, 3 AND 4, OAKLAND COUNTY RECORDS: THENCE NORTH 00 DEGREES 32 MINUTES 05 SECONDS LAST, 527.00 FEET; THENCE NORTH 00 DEGREES 32 MINUTES 05 SECONDS EAST, 53.70.00 FEET; THENCE NORTH 00 DEGREES 32 MINUTES 05 SECONDS EAST, 56.70 FEET; THENCE SOUTH 89 DEGREES 47 MINUTES 55 SECONDS HERE 15 MINUTES 10 SECOND EAST, 56.70 FEET; THENCE SOUTH 80 DEGREES 47 MINUTES 55 SECONDS CONDECTED 15 MINUTES 10 SECOND EAST, 50.70 FEET MINUTES 10 SECOND EAST, PARCEL ID: 22-23-251-019



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EXTERIOR LIGHTING PLAN	SHEET 2 OF 2



3 FULL WORKING DAYS Know write.

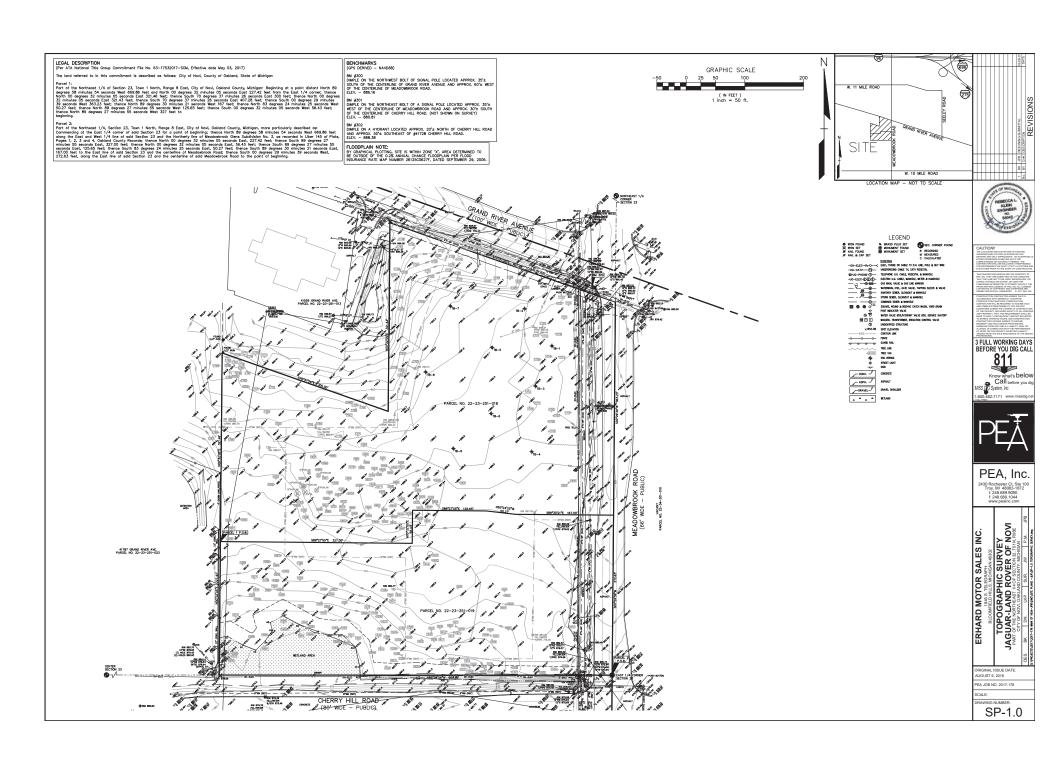


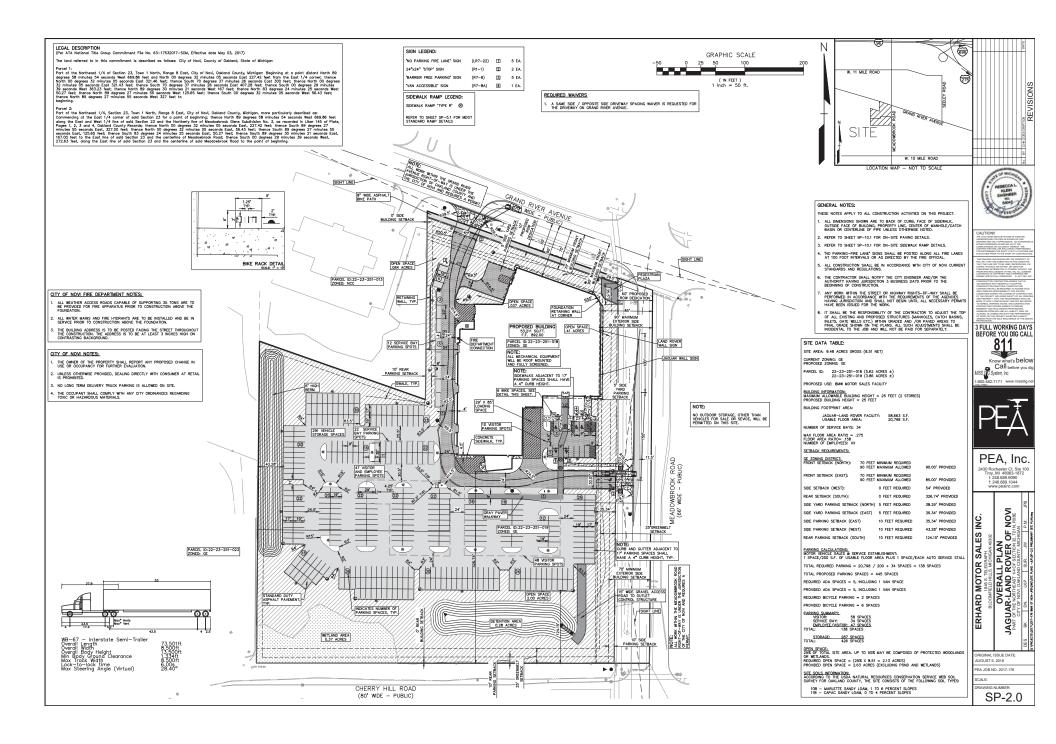
PEA, Inc. 2430 Rochester Ct, Ste 100 Troy, MI 48083-1872 t: 248.689.9090 f: 248.689.1044 www.peainc.com

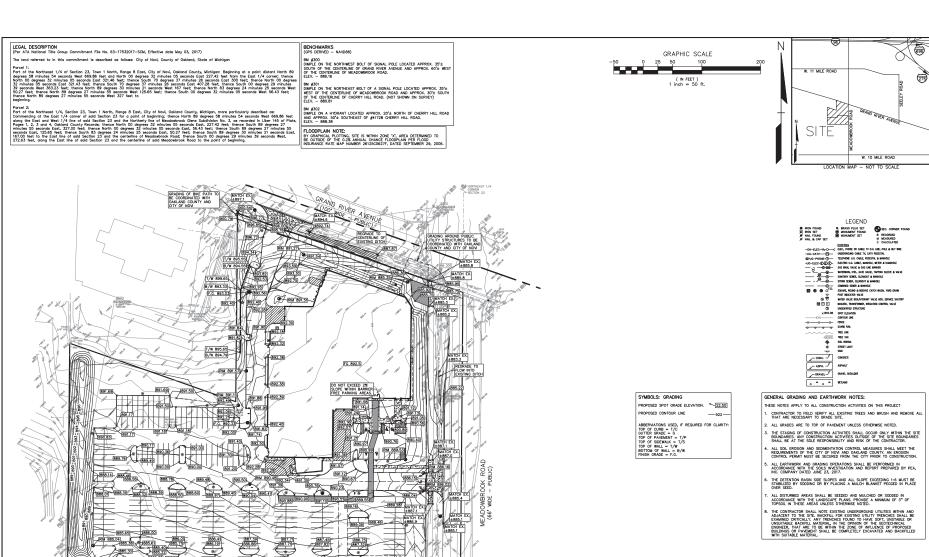
NON N Р ERHARD MOTOR SALES COVER SHEET JAGUAR-

PEA JOB NO. 2017-176

SP-0.0







886.09

883.00

RIM 883.50k

THESE NOTES APPLY TO ALL CONSTRUCTION ACTIVITIES ON THIS PROJECT

CONTRACTOR TO FIELD VERIFY ALL EXISTING TREES AND BRUSH AND REMOVE ALL THAT ARE NECESSARY TO GRADE SITE.

**\*\*** 

**7** 

ALL EARTHWORK AND GRADING OPERATIONS SHALL BE PERFORMED IN ACCORDANCE WITH THE SOILS INVESTIGATION AND REPORT PREPARED BY PEA, INC. COMPANY DATED JUNE 23, 2017.

THE CONTRACTOR SHALL NOTE DISTING UNDERSONIND UTILITIES WITHIN AND THE CONTRACTOR SHALL NOTE DISTING UNDERSONIND UTILITIES WITHIN AND THE CONTRACTOR OF THE

### EARTHWORK BALANCING NOTE:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMP ALL MATERIALS AS REQUIRED TO PROPERLY GRADE FINSHED ELEVATIONS SHOWN ON THE APPROVED P SHALL MAKE THEIR OWN DETERMINATION OF CUT A AND ALLOW FOR REMOVAL OF EXCESS OR IMPOR-MATERIAL AT NO ADDITIONAL COST TO THE OWNER

SIDEWALK RAMP LEGEND: SIDEWALK RAMP "TYPE R" (8)

REFER TO SHEET SP-5.1 FOR MDOT STANDARD RAMP DETAILS

RIGINAL ISSUE DATE: JUGUST 6, 2018 PEA JOB NO. 2017-176

SP-3.0

3 FULL WORKING DAYS BEFORE YOU DIG CALL 811

Know what's belov Call before you di SOG System, Inc.

PEA, Inc.

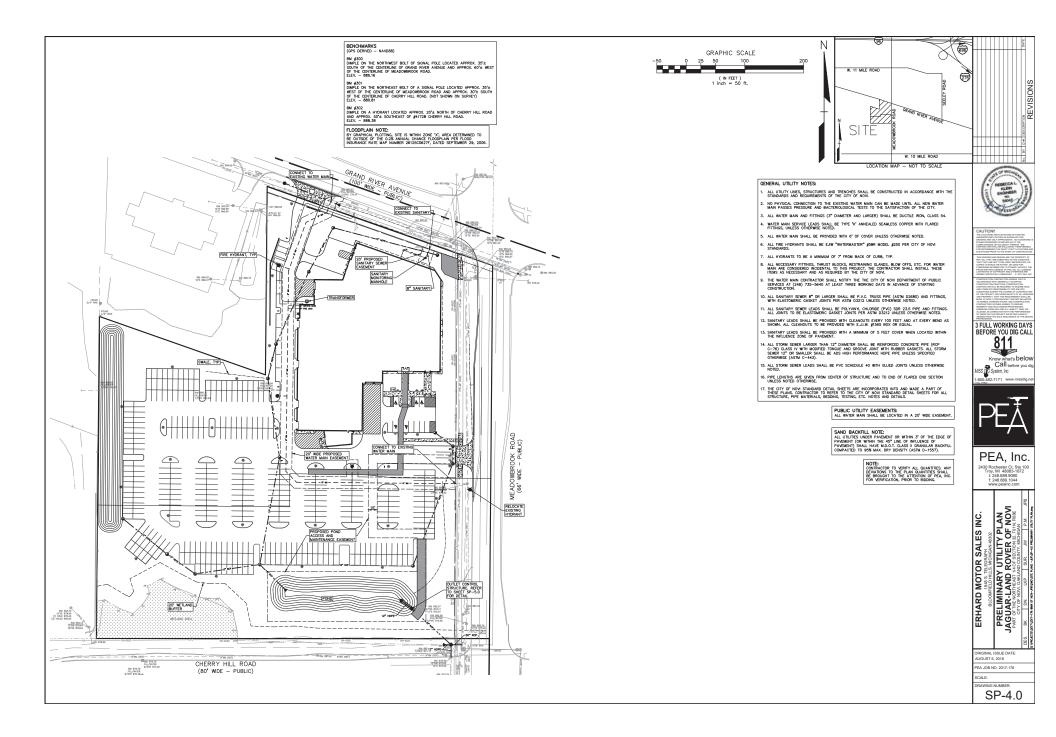
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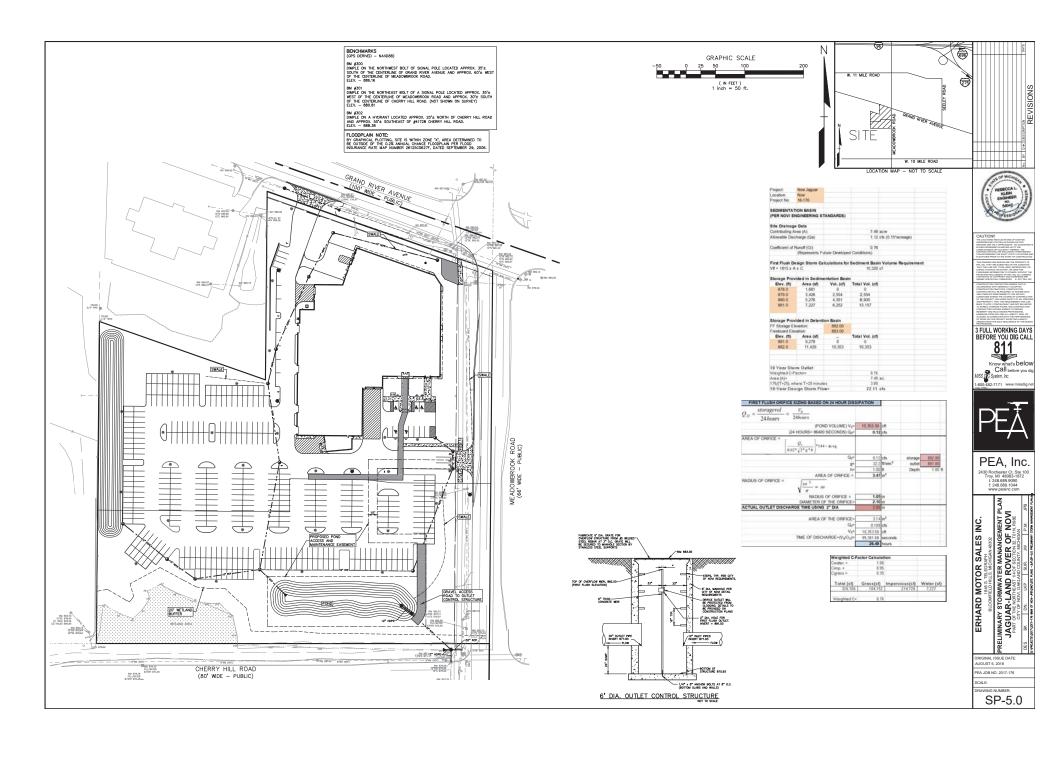
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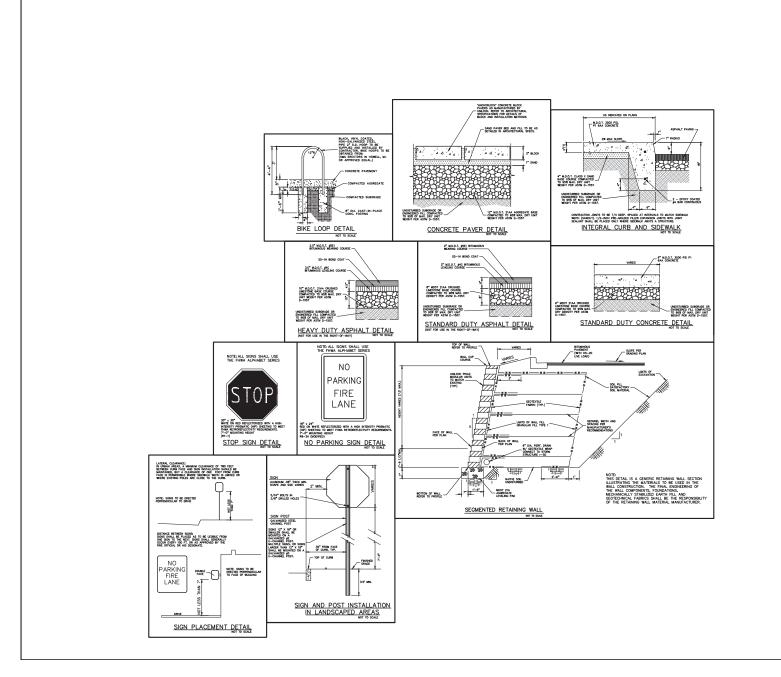
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S. SALES

ERHARD MOTOR









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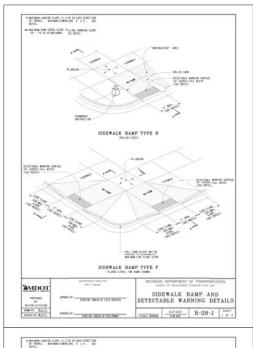
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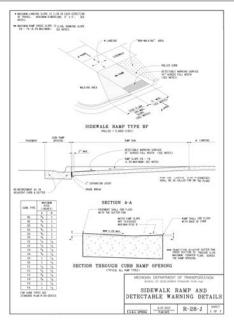
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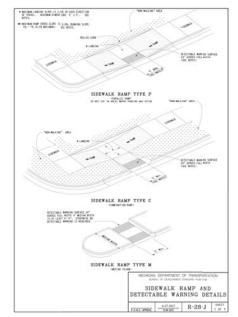
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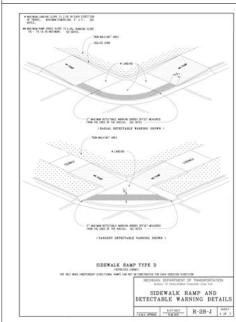
PEA JOB NO. 2017-176

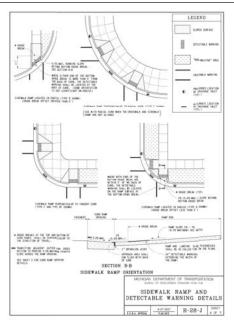
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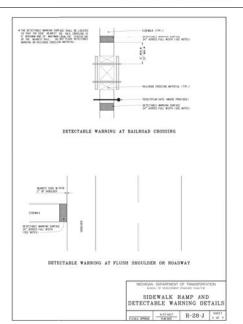
















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No. ERHARD MOTOR SALES INC. MOOT RAMP DETAILS
JAGUAR-LAND ROVER OF I
PART OF THE NORTHEAST 14 OF SECTION 39 THIS

PEA JOB NO. 2017-176

SP-6.1

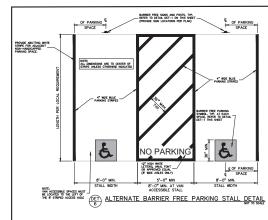
### GENERAL BARRIER FREE NOTES:

THE FOLLOWING NOTES PROVIDE AN OUTLINE OF SOME OF THE REQUIREDATIS CONTAINED WITHIN THE "STANDARDS FOR ACCESSIBLE DESIGN — AMERICANS WITH DISABILITIES ACTOO!", AN "ACCESSIBLE AND USEABLE BUILDINGS AND FACILIES", ICC/ANSI A117.1—2005. THE CONTRACTOR IS RESPONSIBLE FOR ALL OF THE REQUIREMENTS PRESENTED WITHIN THESE OCCUMENTS, WHICH ARE AVAILABLE IN TILL UPON RECOVERY.

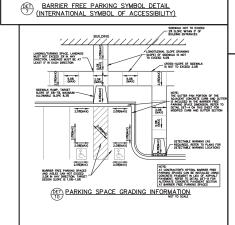
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- AMBRIER FIRE SIGN NOTES:

  OR E SIGN IS RECORDED AT LACH BARRIER FIRE PARKING SPACE.

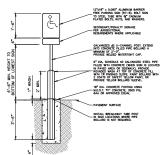
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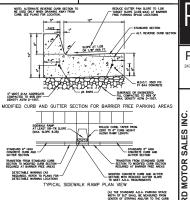
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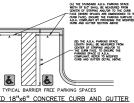
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BARRIER FREE SIGN AND POST DETAIL NOT TO SCALE







MODIFIED 18"x6" CONCRETE CURB AND GUTTER DETAIL TO BE USED IN BARRIER FREE AREAS





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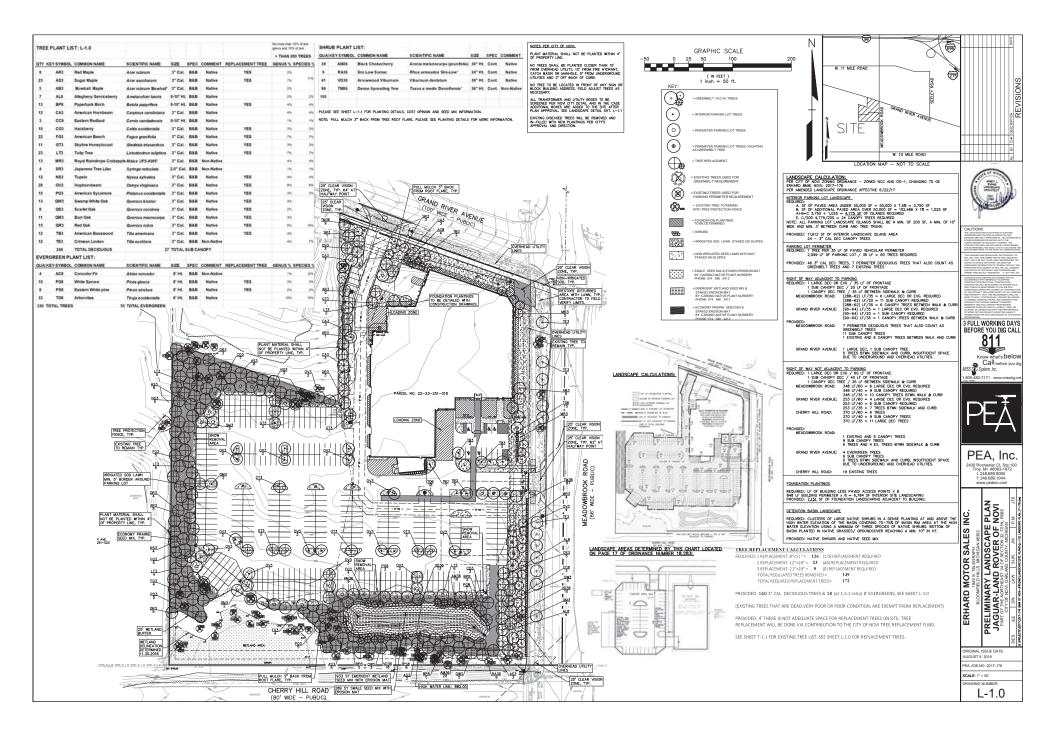
HILLS, MICHIGAN 48302

PARKING DETAILS

D ROVER OF NOVI REE P BARRIER F JAGUAR-

PEA JOB NO. 2017-176

SP-6.2





PLANTING MIX.
AMEND SOIL PER SITE
CONDITIONS AND
REQUIREMENTS
OF PLANT MATERIAL

MULCH 2" DEPTH WITH SHREDDE HARDWOOD BARK. MULCH SHALL BE NATURAL IN COLOR.

SAUCER AROUND SHRUB
PULL THE MULCH 3" AWAY FROM
THE TRUNK DOWN TO THE SOIL

REMOVE ALL NON-BIODEGRADABLE MATERIALS FROM THE ROOTBALL FOLD DOWN ALL BURLAP FROM TO

1. SHRUB SHALL BEAR SAME RELATION TO FINE GRAZE AS IT BORE ORIGINALLY OR SLIGHTLY HIGHER THAN FINSH GRACE UP TO 4" ABOVE GRAZE, F DRECTED BY LANDSCAPE ARCHIEC FOR HEAVY CLAY SOL MEAS.

2. PRUNE ONLY DEAD OR BROKEN BRANCHES

X REMOVE ALL TAGS, STRING, PLASTIC, ROPEL CABLES, AND OTHER MATERIALS THAT ARE UNSIGNLY AND COULD CAUSE GROUNG.

SHRUB PLANTING DETAIL

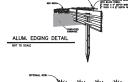
SCAMPY SUBGRADE AND PLATING PIT SIDES, RE-COMPACT BASE TO 4" DEPTH





TREE STAKING DETAIL





LANDSCAPE BED EDSING SHALL BE COMMERCIAL GRADE ALUMINUM AS MANUFACTURED BY PERMALOC 1.800.356.9680 OR APPROVED EQUAL.

(8") EIGHT OR (16") SIXTEEN FOOT SECTIONS SHALL BE USED WITH ONE STAKE PER (38") THRITY EIGHT INCHES OF FROMS.

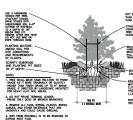
EDGING SHALL BE (\* THICK X 4" DEPTH WHEN ADJ. TO MULCH AND (\* THICK X 5 %" DEPTH WHEN ADJ. TO SOCK, FRISH, BLACK DURAFLEX MEETS AAMA 2603

STAKE SHALL SECURELY ENGAGE EDONG AND SHALL BE ENTRELY BELOW TOP SURFACE OF EDGING.

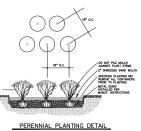
INSTALL AS PER MANUFACTURER'S SPECIFICATIONS WITH TOP OF EDGING \$"-\$" ABOVE COMPACTED FRIEND GRADE. FRIEND GRADE TO BE COMPACTED ON EITHER SIDE OF FORMS TO MAINTAIN STARRIETY.

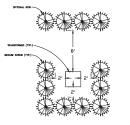
EDGING SHALL HAVE A MINMUM OF (2") TWO INCHES OF INTERLOCKING OVERLAP BITMETH SECTIONS.

SPECIFICATION FOR LANDSCAPE RED EDGING



GUY EVERGREEN TREES TALLER THAN 12' HEIGHT, STAKE TREES SMALLER THAN 12 FEET. STAKE TREES
USING FARRIC GUYNG MATERIAL CONNECT FROM
TREE TO STANE OPPOSITE ALLOW FOR SOME
FINGS OF THE TREE.REMOVE AFTER ON YEAR. REMOVE ALL NON-BIOGRADABLE
MATERIALS FROM THE ROOTBALL
CUT DOWN WHE BASKET
AND FOLD DOWN ALL BURLAP FROM TOP
1/3 OF ROOTBALL ROOTBALL DIRT SHOULD BE PULLED AWAY EVERGREEN TREE PLANTING DETAIL





TRANSFORMER SCREENING DETAIL

### GENERAL PLANTING NOTES PER CITY OF NOVI:

- LANDSCAPE CONTRACTOR SHALL WIST SITE, INSPECT EXISTING SITE CONDITIONS AND REMEW PROPOSED PLANTING AND RELATED WORK. CASE OF DISORPPIANCY BETWEEN PLAN AND PLANT LIST, PLAN SHA COVERN QUANTITIES. CONTACT LANDSCAPE ARCHITECT WITH ANY CONCERNS.
- CONTRACTOR SHALL VERRY LOCATIONS OF ALL ON SITE UTILITIES PRICE TO BEGINNING CONSTRUCTION ON HIS/HER PHASE OF WORK. ELECTRIC, ORS, TILEMPONE, CABLE TILENSON MAY BE LOCATED TO CALLING MISS. DE 1-16 RESOURCEST OF THE CONTRACT OF THE PROPERTY OF STAYLOGS SHALL CONDIGINATE HELATED ACTIVITIES WITH OTHER TRACES ON THE JOB AND SHALL REPORT ANY UNACCEPTABLE JOB CONDITIONS TO OWNER'S REPRESENTANT PROPOR TO COMMENDING.
- ALL TATERIALS ARE TO BE THE TERMEN WESSETY GROWN NO. 1 AND STANDARD TO ROSETED BURNING PROSENSES. BLI THE STANDARD STANDARD FOR NURSESTY STOCK, THEY STANDARD TO THE CURRENT (ANN) STANDARD FOR NURSESTY STOCK, THEY STANDARD FOR NURSESTY STOCK, THEY STANDARD FOR STANDARD FOR NURSESTY STANDARD STANDARD STANDARD FOR STANDARD FOR STANDARD FOR STANDARD STANDARD FOR STANDARD STANDARD STANDARD FOR STANDARD STANDARD FOR STANDARD STANDARD STANDARD STANDARD STANDARD FOR STANDARD STANDARD FOR STANDARD STANDARD STANDARD FOR STANDARD FOR STANDARD STANDARD FOR STANDARD STANDARD FOR STANDARD STANDARD FOR ST
- ALL TREES SHALL HAVE A CENTRAL LEADER AND A RADIAL BRANCHING STRUCTURE. PARK GRADE TREES ARE NOT ACCEPTABLE, ALL TREES SHALL BE BLILD AND BRANCHED (BABBALES) THAT WIGHT TEND TO DEVELOP INTO ""CROTOMES SHALL BE SUBGRORNATED SO AS NOT TO BECOME DOWNANT BRANCHES."
- ALL MULTI STEM TREES SHALL BE HEAVILY BRANCHED AND HAVE SYMMETRICAL CROWNS. ONE SIDED TREES OR THOSE WITH THIN OR OPEN CROWNS SHALL NOT BE ACCEPTED.

- MULCH SHALL BE NATURAL COLOR, FINELY SHREDDED HARDWOOD BARK FOR ALL PLANTINGS. 3" THICK FOR TREES IN 4-FOOT DIAMETER CIRCLE WITH 3" PULLED AWAY FROM TRUNK, 2" FOR SHRUBS AND SHRUB BEDS AND 2" THICK BARK MULCH FOR PERENNIALS.
- 9 ALL LAWN AREAS SHALL RECEIVE 4" COMPACTED TORSOIL
- ALL PLANT MATERIAL SHALL BE MAINTAINED IN A HEALTHY GROWING CONDITION, INCLUDING WATERING, CULTIVATION, WEED CONTROL AND SOIL ENRICHMENTS AS MAY BE NECESSATION.
- ALL PLANT MATERIALS ARE TO BE INSTALLED IN A SOUND, WORKMAN-LIKE MANNER AND IN ACCORDANCE WITH THE CURRENT CITY OF NOVI PLANTING REQUIREMENTS.
- ALL PLANT MATERIAL SHALL BE INSTALLED BETWEEN MARCH 15TH AND NOVEMBER 15TH.
- 13. ALL PLANT MATERIAL SHALL BE WARRANTED FOR TWO(2) FULL YEARS AFTER DATE OF ACCEPTANCE BY THE CITY OF NOVI. ALL UNBEALTHY AND DEAD MATERIAL SHALL BE REPLACED WITHIN ONE(1) YEAR OR THE NEXT APPROPRIATE PLANTING PERIOD WHICH EVER COMES FIRST.
- A MINIMUM OF ONE WEED CONTROL CULTIVATION PER MONTH OCCURRING IN JUNE, JULY AND AUGUST SHALL BE PERFORMED DURING THE TWO-YEAR ESTABLISHMENT PERIOD.
- ANY SUBSTITUTIONS OR DEVIATIONS FROM THE LANDSCAPE PLAN MUST BE APPROVED IN WRITING BY THE CITY OF NOW PRIOR TO INSTALLATION.
- 16. ALL TREE WRAP, STAKES, AND GUYS MUST BE REMOVED BY JULY 1ST, FOLLOWING THE FIRST WINTER SEASON AFTER INSTALLATION.
- ALL LANDSCAPE AREAS ARE TO BE MAINTAINED IN A HEALTHY GROWING CONDITION FREE OF DEBRIS AND REFUSE AND IN CONFORMANCE WITH THE APPROVED LANDSCAPE PLAN.
- ALL LANDSCAPE AREAS ARE TO BE WATERED BY A FULLY AUTOMATIC IRRIGATION SYSTEM. CONTRACTOR TO REMOVE ALL CONSTRUCTION DEBRIS AND EXCESS MATERIALS FROM THE SITE PRIOR TO FINAL ACCEPTANCE.
- PLANT MATERIALS, EXCEPT SOD, GROUND COVER, AND CREEPING WINE TYPE PLANTINGS, SHALL NOT BE LOCATED WITHIN FOUR(4) FEET OF THE PROPERTY LINE.
- ALL TRANSFORMERS ARE TO BE SCREENED ON THREE SIDES (MIN.) IN ACCORDANCE WITH THE CITY OF NOW ORDINANCE AND SO AS TO NOT CONFLICT WITH D.T.E. RESTRICTIONS. (DETAIL THIS SHEET)
- THE OWNER IS RESPONSIBLE FOR REQUEST OF FINAL INSPECTION AND ACCEPTANCE OF THE LANDSCAPE AT THE END OF THE 2-YEAR QUARANTEE PERIOD.
- 23. THE PROVIDER OF THE FINANCIAL GUARANTEE FOR THE LANDSCAPE INSTALLATION SHALL BE FULLY RESPONSIBLE FOR COMPLETION OF THE LANDSCAPE INSTALLATION AND MAINTENANCE PER THE APPROVED LANDSCAPE FLAN AND APPLICABLE CITY ORDINANCES.

### Emergent Wetland Seed Mix

		LANDSCAPE			
		COST OPINION			
ESTIMATED QUANTITY	UNIT	DESCRIPTION	UNIT PRICE	ITEM PRICE	
933	S.Y.	Swale Seed Mix	\$3	\$2,799	
588	S.Y.	Emergent Wetland Seed Mox	\$3	\$1,764 \$23,240	
5,810	S.Y.	Imgated Sod Lawn	54		
1.973	S.Y.	Non-irrigated Seed Lawn	\$3	\$5,919	
5,101	S.Y.	Economy Prairie Seed Mix	\$3		
185	EA.	Shrubs	\$50 \$100 \$250	\$9,250	
33	EA.	6' Evergreens		\$3,300	
27	EA.	Sub-Canopy Ornamental Trees		\$6,750	
160	EA.	Replacement Deciduous Trees	\$400	\$64,000	
18	EA.	Replacement Evergreen Trees	\$325	\$5,850	
12	EA.	Deciduous Street Trees	\$400	\$4,800	
4	EA.	General Landscape Evergreen Trees	\$325	\$1,300	
76	EA.	General Landscape Deciduous Trees	\$400	\$30,400	
1	EA.	Irrigation	\$25,000	\$25,000	

Botanical Name	Common Name
Permanent Grasses/Sec	iges/Rushes:
Bolboschoenus fluviatilis	River Bulrush
Carex comosa	Bristly Sedge
Carex Iacustris	Common Lake Sedge
Carex Jurida	Bottlebrush Sedge
Carex stricta	Common Tussock Sedge
Carex vulpinoidea	Brown Fox Sedge
Eleocharis palustris	Great Spike Rush
Juncus effusus	Common Rush
Leersia oryzoides	Rice Cut Grass
Schoenoplectus acutus	Hard-stemmed Bulrush
Schoenoplectus american	us Chairmaker's Rush
Schoenoplectus tabernae	mr Softstern Bulrush

Hibiscus spp. ribiscus spp.
Iris virginica
Lobelia cardinalis
Lobelia siphilitica
Lycopus americanus
Mimulus ringens
Peltandra virginica
Penthorum sedoldes Polygonum spp.

Sagittaria latifolia

Sweet Flag Water Plantain (Various Swamp Milkweed Buttonbush Swamp Loosestrife Spotted Joe-Pye Weed Rosemallow (Various Mix Blue Flag Cardinal Flower Great Blue Lobella Common Water Horehout Monkey Flower Arrow Arum Ditch Stonecrop Pinkweed (Various Mix) Pickerel Weed Common Bur Reed Blue Vervain

Swale Seed Mix Botanical Name Elymus virginicus Glyceria striata Panicum virgatum Scirpus atrovirens Scirpus cyperinus Spartina pectinata Temporary Cove Avena sativa Lolium multiflorum

Forbs: Alisma spp.
Asclepias Incamata
Coreopsis Internis
Eutrochium maculatun Iris virginica
Iris virginica
Liatris spicata
Lobella cardinalis
Lobella siphilitica
Lycopus americanu
Pycnanthemum virg
Rudbeckia triloba Segitteria latifolia Senna hebecarpa Silphium terebin Verbena hastata Zizia aurea

Common Name Big Bluestern
Bristly Sedge
Crested Oval Sedge
Bottlebrush Sedge
Prainle Sedge Mix
Brown Fox Sedge
Virginia Wild Rye
Fowl Manna Grass
Switch Grass
Dark Green Rush
Wool Grass
Prainle Cord Grass

Water Plantain (Various Mix) Water Plantain (Various Swamp Milkweed Tall Coreopsis Spotted Joe-Pye Weed Blue Flag Marsh Blazing Star Cardinal Flower Great Blue Lobelia Common Water Horehou Common Water Horehou Common Mountain Mint Brown-Eyed Susan Wild Senna Prairie Dock New England Aster

Economy Prairie Seed Mix

Botanical Name Permanent Grasses/Sedges/Rushe Andropogon gerardii
Bouteloua curtipendula
Carex spp.
Elymus canadensis
Panicum virgatum
Schizachyrium scoparii.
Sorghastrum nutans

Temporary Covers Avena sativa Lolium multiflorum

Forbs & Shrubs: Asclepias syriaca Asclepias tuberosa Chamaecrista fascicul Coreopsis lanceolata Echinacea purpurea Heliopsis helianthoides Monarda fistulosa Manarda fistulosa Penstemon digitalis Pycnanthemum virginianum Raitibida pinnata Rudbeckia hirta Solidago speciosa Symphyotrichum laeve Symphyotrichum novae-angli

Common Name

Big Bluestem Side Oats Grama Prairie Sedge Mix Canada Wild Rye Switch Grass Little Bluestem Indian Grass

Annual Rve

ERHARD MOTOR SALES Common Milkweed Butterfly Weed Partridge Pea Sand Coreopsis Broed-leaved Purple C False Sunflower False Sunflower
Wild Lupine
Wild Lepine
Wild Bergamot
Foxglove Beard Tongue
Common Mountain Mint
Yellow Coneflower
Black-Eyed Susan
Showy Goldenrod
Smooth Blue Aster
New England Aster

L-1.1

JAMET L. EVAMB LANCROAMS ANDWITECT

REVISIONS

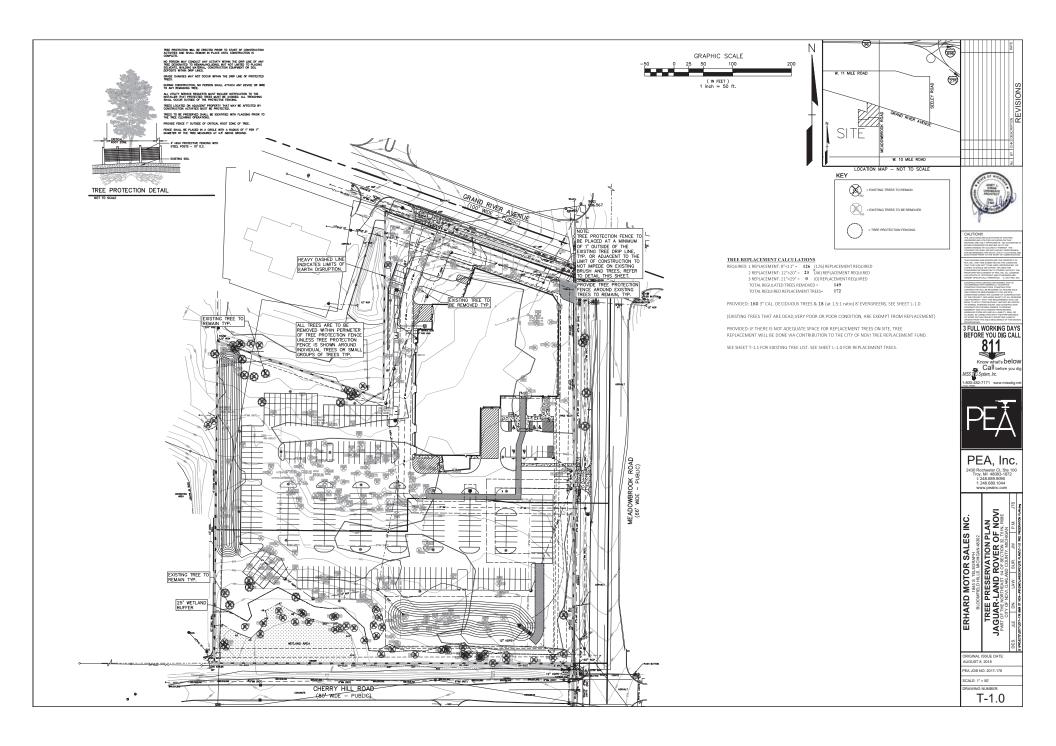
3 FULL WORKING DAYS BEFORE YOU DIG CALL Know what's belov Call be SDG System, Inc.



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S. LANDSCAPE DETAILS
JAGUAR-LAND ROVER OF P

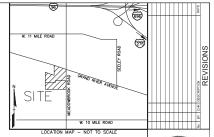
IGINAL ISSUE DATE: EA JOB NO. 2017-176



1501	CODE	DBH 8	COMMON NAME Cottonwood	LATIN NAME Populus deltoides	GOOD	COMMENT	SAVE / REMOVE SAVE
1502	BL	12	Black Locust	Robinia pseudoacacia	GOOD		SAVE
1503	BW	8	Black Walnut	Juglans nigra	FAIR		SAVE
1504	BW	6	Black Walnut	Juglans nigra	GOOD	X5	SAVE
1505	BW	8	Black Walnut	Juglans nigra	FAIR	X2	SAVE
1506	BW	6	Black Walnut	Juglans nigra	GOOD		SAVE
1507	BW	6	Black Walnut	Juglans nigra	FAIR		SAVE
		10	Basewood	Titia americana	GOOD	X2	
1509	BW	8	Black Walnut Basswood	Juglans nigra Titia americana	FAIR		SAVE
1511	В	11	Basswood	Tilia americana	GOOD		SAVE
1512	В	8	Basswood	Tilia americana	GOOD		SAVE
1513	В	7	Basswood	Tilia americana	GOOD	X2	SAVE
1514	В	6	Basswood	Titia americana	GOOD	X6	SAVE
1515	В	7	Basswood	Tilia americana	GOOD		SAVE
1516	В	7	Basswood	Tilia americana	GOOD		SAVE
1517	В	10	Basswood	Tilia americana	GOOD		SAVE
1518	В	8	Basswood	Titia americana	GOOD		SAVE
1519	CT	16	Cottonwood	Populus deltoides	GOOD		SAVE SAVE
1520	CT	8	Cottonwood	Populus deltoides Populus deltoides	GOOD		SAVE
1522	CT	15	Cottonwood	Populus delloides	GOOD		SAVE
1523	CT	8	Cottonwood	Populus deltoides	GOOD		SAVE
1524	CT	9	Cottonwood	Populus deltoides	GOOD		SAVE
1525	CA	6	Crab Apple	Malus caronaria	GOOD	Х3	SAVE
1526	BW	16	Black Walnut	Juglans nigra	GOOD		SAVE
1527	GA	7	Green Ash	Fraxinus pennsylvanica	POOR		SAVE
1528	CT	12	Cottonwood	Populus deltoides	GGGD		REMOVE
1529	CT	- 11	Cottonwood	Populus deltoides	GOOD		REMOVE
1530	BL	7	Black-Locust	Robinia pseudoacacia	POOR		REMOVE - EXEMPT-S
1631	BL BL	8	Black-Locust Black-Locust	Robinia pseudoacacia Robinia oseudoacacia	POOR	-	REMOVE EXEMPT-CO
1632	BL.	9	Black-Locust Black-Locust	Robinia pseudoscacia Robinia pseudoscacia	FAIR.	_	REMOVE EXEMPT-CO
1534	CT CT	12	Cottonwood	Populus delicides	GOOD	_	REMOVE
1535	CT	9	Cottonwood	Populus deltoides	GOOD		SAVE
1536	CT	10	Cottonwood	Populus deltoides	GOOD	X2	SAVE
1537	CT	8	Cottonwood	Populus deltoides	GOOD		SAVE
1538	CT	12	Cottonwood	Populus deltoides	GGGD		REMOVE
1539	CT	9	Cottonwood	Populus deltoides	GOOD		REMOVE
1540	CT	9	Cottonwood	Populus deltoides	GOOD		REMOVE
1541	GT	9	Gottonwood Gottonwood	Populus delicides Populus delicides	GOOD	XQ.	REMOVE
1541	CT	9	Cottonwood	Populus deltoides	FAIR	- No	SAVE
1544	GA	7	Green Ash	Fraxinus pennsylvanica	GOOD		SAVE
1545	E	10	American Elm	Ulmus americana	GOOD		SAVE
1546	BW	10	Black Walnut	Juglans nigra	GOOD		SAVE
1547	E	9	American Elm	Ulmus americana	POOR		SAVE
1548	SM	10	Silver Maple	Acer saccharinum	GOOD		SAVE
1549	GA	15	Green Ash	Fraxinus pennsylvanica	POOR		SAVE
1550	E GT	15	American Elm	Ulmus americana	GOOD		SAVE REMOVE
4552	GA	12	Gottonwood Green Ash	Populus deltoides	GOOD	_	REMOVE - EXEMPT-S
1563		2	American Elm	Frazinus-pennsylvanica	GOOD		REMOVE - EXEMPT-S
1554	CT	8	Cottorwood	Populus deltoides	FAIR		SAVF
1565	CT	11	Cottonwood	Populus deltoides	GOOD		REMOVE
1556	GT	8	Cottonwood	Populus delicides	GOOD		REMOVE
4667	GŦ	9	Cottonwood	Populus deltoides	GGGD		REMOVE
1568	CT	12	Cottonwood	Populus delloides	GGGD		REMOVE
1569	CT	9	Cottonwood	Populus deltoides	GOOD		REMOVE
1560	E	7	American Elm	Ulmus americana	GOOD		SAVE
1561	BW	6 17	Black Walnut Black Walnut	Juglans nigra	FAIR	_	SAVE
1563	GA GA	7/	Green Ash	Juglans nigra Fraxinus pennsylvanica	POOR		SAVE
1564	GA	6	Green Ash	Fraxinus pennsylvanica	POOR		SAVE
1565	PN	6	Pin Cherry	Prunus pennsylvanica	GOOD		SAVE
1566	GA	6	Green Ash	Fraxinus pennsylvanica	POOR		SAVE
1567	GA	7	Green Ash	Fraxinus pennsylvanica	POOR		SAVE
1568	BX	11	Box elder	Acer negundo	FAIR		SAVE
1569	WH	22	White Willow	Salix alba	GOOD		SAVE
1570	WH	24	White Willow	Salix alba	GOOD		SAVE
1571	WH	17	White Willow	Salix alba	GOOD		SAVE
1572	E	10	American Elm	Ulmus americana	POOR		SAVE
1573	BX WH	16	Box elder White Willow	Acer negundo Salix alba	FAIR	X3	SAVE
1575	SM	18	Silver Maple	Acer sa ccharinum	GOOD	- ^-	SAVE
1576	SM	6	Silver Maple	Acer saccharinum	GCCD		REMOVE - EXEMPT-S
1677	NM	12	Norway-Maple	Acer pistanoides	GGGD		REMOVE
1578	BL.	- 11	Black-Locust	Robinia pseudoacacia	FAIR-		REMOVE
1570	CT	- 7	Cottonwood	Populus delloides	GOOD		REMOVE - EXEMPT-S
1580	BL	8	Black-Locust	Robinia pseudoacacia	FAIR-		REMOVE
1581	GA	8	Green Ash	Fraxinus pennsylvanica	GOOD		REMOVE
	GT	9 2	Cottonwood	Populus deltoides	GOOD		
1583 1584	CT	7 7	Cottonwood Cottonwood	Populus delloides Populus delloides	GOOD	_	REMOVE - EXEMPT-S REMOVE - EXEMPT-S
1585	CT	7	Cottonwood	Populus deltoides	GOOD	_	REMOVE - EXEMPT-S
1595	BL.	9	Black-Locust	Robinia pseudoacacia	GOOD	100	REMOVE
1587	BL.	8	Black-Locust	Robinia pseudoacacia	GGGD		REMOVE
1588	BL.	10	Black-Locust	Robinia pseudoacacia	POOR		REMOVE EXEMPT-CO
1589	CT	8	Cottonwood	Populus deltoides	GOOD		REMOVE
1590	CT	8	Cottonwood	Populus deltoides	GOOD		REMOVE
1591	WO	- 11	White Oak	Quercus alba	GGGD		REMOVE
1592	GŦ	8	Cottonwood	Populus delicides	GOOD		REMOVE
1593	wo	6	White-Oak	Querous-alba	GGGD		REMOVE - EXEMPT-S
1594	wo	7	White Oak	Quercus alba	GOOD	L	SAVE REMOVE - EXEMPTS
1595	BL.	7	Black Locust	Robinia pseudoacacia	GOOD	X2.	REMOVE - EXEMPT S REMOVE - EXEMPT S
1595	BL BL	2 2	Black Locust Black Locust	Robinia pseudoacacia Robinia pseudoacacia	GOOD-	-	REMOVE - EXEMPT-S REMOVE - EXEMPT-S
1597	BL BL	7 8	Black-Locust Black-Locust	Robinia pseudoacacia Robinia pseudoacacia	FAIR-	_	REMOVE - EXEMPT-S REMOVE
1599	BL BL	8	Black-Locust	Robinia pseudoacacia	FAIR-	ж.	REMOVE
1600	BL.	10	Black-Locust	Robinia pseudoacacia	GOOD	A-	REMOVE
1600	GT GT	70	Cottonwood	Populus deltoides	GOOD	_	REMOVE - EXEMPT-S
1602	GT	9	Cottonwood	Populus delicides	GOOD-		REMOVE
	GT	8	Cottonwood	Populus delloides	GGGD		REMOVE
1603							

TAG NO.	CODE	DBH	COMMON NAME Black Walnut	LATIN NAME Jugians-nigra	COND	COMMENT	SAVE / REMOVE REMOVE - EXEMPT-SIZE
1606	CI BW	10	Black-Walnut Cottonwood	Jugians nigra Populus deltoides	GOOD		REMOVE - EXEMPT-SIZE
1607	CT	17	Cottonwood	Populus detoides	GOOD		REMOVE
1608	CT	10	Cottonwood	Populus deltoides	GGGD		REMOVE
1609	CT	16	Cottonwood	Populus dellaides	GGGD		REMOVE
1610	8L	9	Black-Locust	Robinia pseudoacacia	POOR		REMOVE EXEMPT-COND
1611	BL BL	12	Black Locust Black Locust	Robinia pseudoacacia Robinia pseudoacacia	GOOD FAIR		REMOVE - EXEMPT-SIZE
1613	84.	7	Black-Locust	Rotinia pseudoacacia	POOR		REMOVE - EXEMPT-SIZE
1614	BL.		Black-Locust	Robinia-pseudoacacia	FAIR-		REMOVE
1615	BX	8	Box-elder	Acer-negundo	FAIR-	X2-	REMOVE
1616	8X	7	Box-elder	Acer negundo	FAIR-		REMOVE - EXEMPT-SIZE
1617	BL BX	14	Black-Locust	Robinia pseudoacacia	POOR EAR		REMOVE EXEMPT-COND
1618	8L 8L	8	Box eider Black Locust	Acer negundo Robinia oseudoacacia	GOOD	X2-	REMOVE - EXEMPT-SIZE REMOVE
1620	BX BX	10	Box-elder	Acer-negundo	POOR		REMOVE EXEMPT-COND
1621	BX	7	Box elder	Aper negundo	GGGD		REMOVE - EXEMPT-SIZE
1622	BŁ.	6	Black-Locust	Robinia pseudoscacia	FAIR-		REMOVE - EXEMPT-SIZE
1623	84.	6	Black-Locust	Robinia pseudoacacia	FAIR-	X4	REMOVE - EXEMPT-SIZE
1624	8L	7	Black-Locust	Robinia-pseudoacacia	GOOD		REMOVE - EXEMPT-SIZE
1625	BL BL	8 7	Black-Locust Black-Locust	Robinia pseudoacacia Robinia pseudoacacia	GOOD	X2-	REMOVE REMOVE - EXEMPT-SIZE
1627	84.	2	Black-Locust	Robinia pseudoscacia	GOOD	~	REMOVE - EXEMPT-SIZE
1628	GT	7	Cottonwood	Posulus delloides	GGGD		REMOVE - EXEMPT-SIZE
1629	CT	8	Cottonwood	Populus deltoides	GOOD		REMOVE
1630	CT	8	Cottonwood	Populus deltoides	GOOD		REMOVE
1631	BF	6	Black-Locust	Robinia pseudoacacia	POOR	X3-	REMOVE - EXEMPT-SIZE
1632	BL.	7 2	Black-Locust Black-Locust	Robinia pseudoscacia Robinia pseudoscacia	FAIR- GOOD		REMOVE - EXEMPT-SIZE REMOVE - EXEMPT-SIZE
1634	BL BL	8	Black-Locust	Robinia pseudoacacia	EVID		REMOVE - EXEMPT-SIZE
1635	CT	- 11	Gottonwood	Populus deltoides	GOOD		REMOVE
1636	BL.	8	Black-Locust	Robinia pseudoscacia	GOOD		REMOVE
1637	CT	10	Cottonwood	Populus deltoides	GGGD-		REMOVE
1638	CT	9	Cottonwood	Populus deltoides	GOOD		REMOVE
1639	BL.	7 10	Black-Locust Black-Locust	Robinia pseudoacacia	POOR EAID		REMOVE - EXEMPT-SIZE
1661	BL.	8	Black-Locust	Robinia pseudoscacia Robinia pseudoscacia	GOOD		REMOVE
1642	BL.	8	Black-Locust	Robinia pseudoacacia	FAIR-	X2,-	REMOVE
1643	8L	9	Black-Locust	Robinia-pseudoacacia	GCCD	7.01	REMOVE
1644	8L	10	Black-Locust	Robinia pseudoacacia	GOOD.		REMOVE
1645	CT	10	Cottonwood	Populus deltoides	GOOD		REMOVE
1646 1647	CT BL	8	Cottonwood Black-Locust	Populus dellaides	GGGD	same as 1501	REMOVE REMOVE
1647	BL.	8	Black Locust	Robinia pseudoacacia Robinia pseudoacacia	GOOD	X2-	REMOVE DEMOVE
1649	CT	9	Cottonwood	Populus deltoides	GOOD	- Ac-	REMOVE
1680	BL.	7	Black-Locust	Robinia pseudoscacia	FAIR-		REMOVE - EXEMPT-SIZE
1661	CT	8	Cottonwood	Populus deltoides	GOOD		REMOVE
1662	CT	9	Cottonwood	Populus deltoides	GOOD		REMOVE
1653	CT	6 7	Cottonwood Cottonwood	Populus deltoides Populus deltoides	GOOD FAIR		REMOVE - EXEMPT-SIZE
1686	GT	*	Cottonwood	Populus deltoides	GOOD	_	REMOVE - EXEMPT-SIZE
1686	CT		Cottonwood	Populus dellaides	FAIR-		REMOVE
1667	BL.	7	Black-Locust	Robinia-pseudoacacia	GOOD	ХЗ-	REMOVE - EXEMPT-SIZE
1658	CT	11	Cottonwood	Populus deltoides	GOOD		REMOVE
1659	CT	40	Cottonwood	Populus deltaides	FAIR-		REMOVE
1680	BL CT	10	Black-Locust Cottonwood	Rotinia pseudoscacia Populus dell'oides	GCCD		REMOVE
1662	CI	7	Cottonwood	Populus detoides Populus detoides	GOOD		REMOVE EXEMPTISIZE
1663	BL.	6	Black-Locust	Robinia pseudoacacia	GOOD.	X2-	REMOVE - EXEMPT-SIZE
1064	CT	7	Cottonwood	Populus deltoides	GGGD	- 12	REMOVE - EXEMPT-SIZE
1685	BL.	9	Black-Locust	Robinia pseudoacasia	GGGD		REMOVE
1666	8L	- 6	Black-Locust	Robinia pseudoacacia	GOOD	X2-	REMOVE - EXEMPT-SIZE
1667	BL CT	7	Black-Locust	Robinia pseudoacacia	GCCD		REMOVE - EXEMPT-SIZE
1668	GT GT	9	Cottonwood Cottonwood	Populus deltoides Populus deltoides	GOOD	X2-	REMOVE REMOVE
1670	CT	2	Cottonwood	Populus deltoides	GOOD	X2-	REMOVE - EXEMPT-SIZE
1671	GT .	8	Cottonwood	Populus deltoides	GGGD	- 10	REMOVE
1672	CT	8	Cottonwood	Populus deltoides	GCCD		REMOVE
1673	CT	8	Cottonwood	Populus deltoides	GOOD		REMOVE
1674	8L CT	8 10	Black-Locust	Robinia pseudoscacia	GOOD		REMOVE
1676	CT BL	10 Z	Cottonwood Black Locust	Populus deltoides Robinia oseudoacacia	GGGD		REMOVE - EXEMPT-SIZE
1677	CT	10	Cottonwood	Populus deltoides	GOOD.		REMOVE - EXEMPT-042
1678	CT	9	Cottonwood	Populus deltaides	GGGD	X2-	REMOVE
1679	CT	8	Cottonwood	Populus deltoides	FAIR-		REMOVE
1680	CT	8	Cottonwood	Populus deltoides	GOOD		REMOVE
1681	BL CT	7.	Black-Locust	Robinia pseudoacacia	GOOD		REMOVE - EXEMPT-SIZE REMOVE
1682	BL.	12	Cottonwood Black-Locust	Populus deltoides	GOOD	X2-	REMOVE
1684	GT CT		Cottonwood	Robinia pseudoscacia Populus deltoides	GOOD	X2-	REMOVE
1685	CT	7	Cottonwood	Populus deltoides	GOOD	- ~	REMOVE - EXEMPT-SIZE
1686	BL.	7	Black-Locust	Robinia pseudoacacia	FAIR-		REMOVE - EXEMPT-SIZE
1687	GT	8	Cottonwood	Populus deltoides	GOOD		REMOVE
1688	CT	7	Cottonwood	Populus deltaides	GGGD		REMOVE - EXEMPT-SIZE
1689	CT	7	Cottonwood	Populus deltoides	FAIR-		REMOVE - EXEMPT-SIZE
1690	CT	10	Cottonwood Cottonwood	Populus deltoides Populus deltoides	GOOD		REMOVE REMOVE
1661	CT	8	Cottonwood	Populus deltaides	EAIR.	_	REMOVE
1693	GT		Cottonwood	Populus dellaides	GOOD		REMOVE
1694	CT	10	Cottonwood	Populus deltoides	GOOD		REMOVE
1695	CT	11	Cottonwood	Populus deltoides	GOOD		REMOVE
1696	CT	9	Cottonwood	Populus deltoides	GOOD		REMOVE
1697	CT	7 2	Cottonwood	Populus deltoides	GGGD	xa.	REMOVE - EXEMPT-SIZE
1698	BL CT	7 8	Black-Locust Cottonwood	Robinia pseudoacacia	GGGD	ХЗ-	REMOVE - EXEMPT-SIZE
1699	CT	8 7	Cottonwood	Populus deltoides Populus deltoides	GOOD		REMOVE - EXEMPT-SIZE
1700	GT	7 8	Cottonwood	Populus deltoides Populus deltoides	GOOD		REMOVE - EXEMPT-SIZE
1702	GT	12	Cottonwood	Populus deltoides Populus deltoides	GOOD		SAVE
1702	CT	9	Cottonwood	Populus deltoides Populus deltoides	GOOD		SAVE
1704	CT	11	Cottonwood	Populus deltoides	GOOD		SAVE
1705	BP	7	Bradford Pear	Pyrus calleryanna	GOOD		REMOVE - EXEMPT-SIZE
1705	BL	10	Black Locust	Robinia pseudoacacia	GOOD	X2	SAVE
	BL	9	Black Locust	Robinia pseudoacacia	GOOD		SAVE
1707	BL	13	Black-Locust	Robinia pseudoacacia	GGGD		REMOVE

TAG NO.	CODE	DBH 6	COMMON NAME Black-Looust	LATIN NAME Robinia oseudoacacia	COND	COMMENT	SAVE / REMOVE REMOVE - EXEMPT-SIZE
1710	BL	7	Black Locust	Robinia pseudoacacia	FAIR		SAVE
4711	BX	7	Box-elder	Acer negundo	G000		REMOVE - EXEMPT-SIZE
1712	81.	9	Black-Locust	Robinia pseudoacacia Robinia pseudoacacia	6000	X2	REMOVE SAVE
1713	BL BL	11	Black Locust Black Locust	Robinia pseudoacacia Robinia pseudoacacia	FAIR-	X2	REMOVE - EXEMPT-SIZE
1715	BL	6	Black-Locust	Robinia pseudoacacia	G000		REMOVE - EXEMPT-SIZE
1716	84.	8	Black-Locust	Robinia pseudoacacia	GOOD		REMOVE
1717	BL CT	15	Black-Locust Cottonwood	Robinia pseudoacacia Ponulus deltoides	6000		REMOVE SAVE
1718	GT BL	9	Cottonwood Black-Locust	Populus deltoides Robinia pseudoacacia	G000		SAVE REMOVE
1720	84.	8	Black-Looust	Robina pseudoacacia	GOOD		REMOVE
1721	8L	7	Black-Looust	Robinia pseudoacacia	GOOD		REMOVE - EXEMPT-SIZE
1722	8L	7	Black-Looust	Robinia pseudoacacia	FAIR-		REMOVE - EXEMPT-SIZE
1723	GT	44	Cottonwood	Populus delicides	G000		REMOVE
4724 1726	BL BL	8	Black-Looust Black-Looust	Robinia pseudoacacia Robinia pseudoacacia	G000	34	REMOVE REMOVE
1726	GT GT	14	Cottonwood	Populus deltoides	6000		REMOVE
1727			#N/A	#N/A			SAVE
4728	8Ł	42	Black-Locust	Robinia peeudoacacia	G000	X2-	REMOVE
1729	8X	8 2	Box elder	Acer-negundo	6000		REMOVE
1730	BY.	8	Black-Locust Box-elder	Robinia pseudoacacia Acer negundo	GOOD FAIR:	10.	REMOVE - EXEMPT-SIZE REMOVE
1732	BL.	8	Black-Locust	Robinia pseudoacacia	GOOD	AL.	REMOVE
1733	84.	12	Black-Locust	Robinia pseudoacacia	6000		REMOVE
1734	8L	12	Black-Looust	Robinia pseudoacacia	G000		REMOVE
1735	BX	9	Box-elder	Acer negundo	GOOD		REMOVE
1736	BX	9	Box-elder	Acer negundo	G000		REMOVE
1737 1738	BL BL	8	Black-Looust Black-Looust	Robinia pseudoacacia Robinia pseudoacacia	6000	X2- X2-	REMOVE - EXEMPT-SIZE
1739	BL.	14	Black Locust	Robinia pseudoacacia Robinia pseudoacacia	EAIR.	~	REMOVE - EXEMPT-SIZE
1740	BX	6	Box-elder	Acer negundo	POOR		REMOVE - EXEMPT-SIZE
1741	84.	8	Black-Looust	Robinia pseudoacacia	GOOD	XQ.	REMOVE
1742	8L	7	Black-Looust	Robinia pseudoacacia	FAIR-		REMOVE - EXEMPT-SIZE
1743 1744	BL BL	6	Black Looust	Robinia pseudoacacia	FAIR FAIR	X2 X3-	SAVE REMOVE - EXEMPT-SIZE
1744	BL	8	Black-Locust Black-Wainut	Robinia pseudoacacia Juglans nigra	GOOD	ж.	REMOVE - EXEMPT-SIZE
1746	844	8	Black-Walnut	Jugians-nigra	6000		REMOVE
1747	BL.	15	Black-Looust	Robinia-pseudoacacia	GOOD		REMOVE
1748	BL	18	Black-Locust	Robinia pseudoacacia	POOR	24	REMOVE EXEMPT-COND.
1749	84.	9	Black-Locust	Robinia-pseudoacacia	FAIR-		REMOVE
1750	BL.	10	Black-Looust Black-Looust	Robinia pseudoacacia Robinia pseudoacacia	FAIR-		REMOVE REMOVE
1752	BL	6	Black Locust	Robinia pseudoacacia	G000		SAVE
1783	BL	44	Black-Locust	Robinia pseudoacacia	FAIR-		REMOVE
1754	BL	9	Black Locust	Robinia pseudoacacia	POOR		SAVE
1755	8L	7	Black-Looust	Robinia pseudoacacia	GOOD		REMOVE - EXEMPT-SIZE
1756	BL CT	6	Black Locust Cottonwood	Robinia pseudoacacia Populus delloides	G000 G000	72	REMOVE - EXEMPT-SIZE REMOVE
1758	BX	8	Box elder	Acer negundo	EAUR		SAVE
1759	8X	- 44	Box-elder	Acer-negundo	FAIR-		REMOVE
1750	8L	9	Black-Locust	Robinia pseudoacacia	FAIR-		REMOVE
1781	BL	8 7	Black-Locust	Robinia pseudoacecia	G000		REMOVE
1762	BW BL	7 9	Black Locust Black Walnut	Robinia pseudoacacia Juglans nigra	FAIR-	76	REMOVE - EXEMPT-SIZE SAVE
1764	CT	15	Cottonwood	Populus deltoides	6000		SAVE
1765	CT	7	Cottonwood	Populus deltoides	G000		SAVE
1766	CT	15	Cottonwood	Populus deltoides	GOOD		SAVE
1767	CT	10	Cottonwood	Populus deltoides	GOOD		SAVE
1768	CT CT	10	Cottonwood	Populus deltoides	FAIR		SAVE REMOVE
1770	CI	10	Cottonwood Cottonwood	Populus deltoides Populus deltoides	6000		REMOVE
1771	GT	9	Cottonwood	Populus deltoides	6000		REMOVE
1772	CT	8	Cottonwood	Populus deltoides	G00D		SAVE
1773	CT	9	Cottonwood	Populus deltoides	G000		SAVE
1774	BX	18	Box elder Box elder	Acer negundo Acer negundo	G000 G000		SAVE SAVE
1776	BX	7	Box elder Box elder	Acer negundo Acer negundo	FAIR		SAVE SAVE
1777	BX	12	Box elder	Acer negundo	FAIR		SAVE
1778	GT	-16	Cottonwood	Populus delicides	GOOD		REMOVE
1779	CT	46	Cottonwood	Populus deltoides	6000		REMOVE
1780 1781	GT GT	9	Cottonwood	Populus deltoides Populus deltoides	G000		REMOVE REMOVE
1781	GT	9	Cottonwood Cottonwood	Populus deltoides Populus deltoides	G000		REMOVE SAVE
1783	GT	10	Collanwood	Populus delicides	6000		REMOVE
1784	CT	9	Cottonwood	Populus deltoides	G000		REMOVE
1785	CT	12	Cottonwood	Populus deltoides	G000		REMOVE
1786	CT	8	Cottonwood	Populus delloides	6000		REMOVE REMOVE
1787	CI	12	Cottonwood Cottonwood	Populus delloides Populus delloides	6000		REMOVE REMOVE
1788	GT GT	10	Cottonwood	Populus denoides Populus delicides	GOOD		REMOVE
1790	PN	6	Pin Cherry	Prunus pennsylvanica	G000	Х3	SAVE
1791	CT	9	Collanwood	Populus delloides	GOOD		REMOVE
1792	CT	7	Cottonwood	Populus delicides	GOOD		REMOVE - EXEMPT-SIZE
1793	GT GT	9	Cottonwood	Populus deltoides	G000		REMOVE
1794	CT	11	Cottonwood	Populus deltoides	G000		SAVE SAVE
1796	CT	7	Cottonwood	Populus deltoides	6000		REMOVE - EXEMPT-SIZE
1797	CT	9	Cottonwood	Populus deltoides	GOOD		SAVE
1798	CT	9	Cottonwood	Populus deltoides	GOOD		SAVE
1799	CT	7	Cottonwood	Populus deltoides	GOOD		SAVE
1800	CT	8	Cottonwood	Populus delicides Populus delicides	6000		REMOVE REMOVE
1801	GT	9	Cottonwood Cottonwood	Populus deltoides Populus deltoides	G000		REMOVE REMOVE
1803	CT	7	Cottonwood	Populus delicides	6000		REMOVE - EXEMPT-SIZE
1804	CT	8	Cottonwood	Populus deltoides	GOOD		REMOVE
1805	8L	10	Black Locust	Robinia pseudoacacia	GOOD		REMOVE
1806	BC	9	Wild Black-Cherry	Prunus-serotina	G000		REMOVE
1807	GA E	8	Green-Ash	Frazinus pennsylvanica	POOR		REMOVE EXEMPT-COND.
1803	E	11	American Elm	Ulmus americana	POOR		SAVE SAVE
1809			#N/A	#N/A			



NOTE: BOLD = TREE TO BE SAVED STRIKETHROUGH = TO BE REMOVED







PEA, Inc. 2430 Rochester Ct, Ste 100 Troy, MI 48083-1872 t-248.689.9090 f: 248.689.1044 www.peainc.com

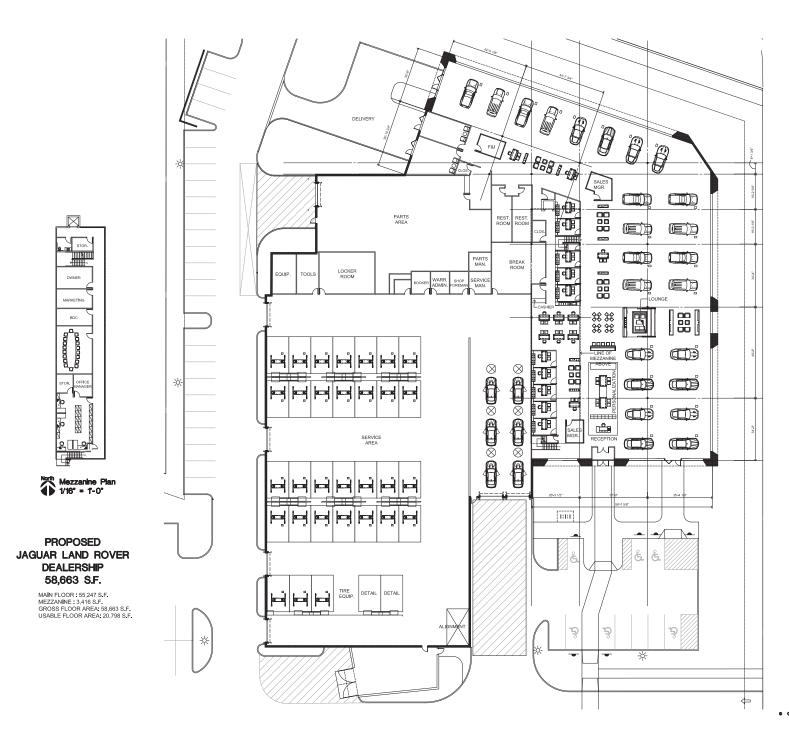
ERHARD MOTOR SALES INC.
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ORIGINAL ISSUE DATE: AUGUST 8, 2018 PEA JOB NO. 2017-176

SCALE: N/A
DRAWING NUMBER:
T-1.1

NOTE: TREES 1501 AND 1646 ARE THE SAME COTTONWOOD TAGGED TWICE.



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OWNER REVIEW: 21 MAY 18
OWNER REVIEW: 22 MAY 18
OWNER REVIEW: 16 JUN; 18
OWNER REVIEW: 20 JUN; 18
OWNER REVIEW: 23 JUN; 18

OWNER REVIEW 20 JUN-OWNER REVIEW 23 JUL-OWNER REVIEW 24 JUL-SUBMITTED FOR SITE PLAN BRIDGING OR ALIC: 18

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project

Jaguar Land Rover



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drawi

Proposed Floor Plan

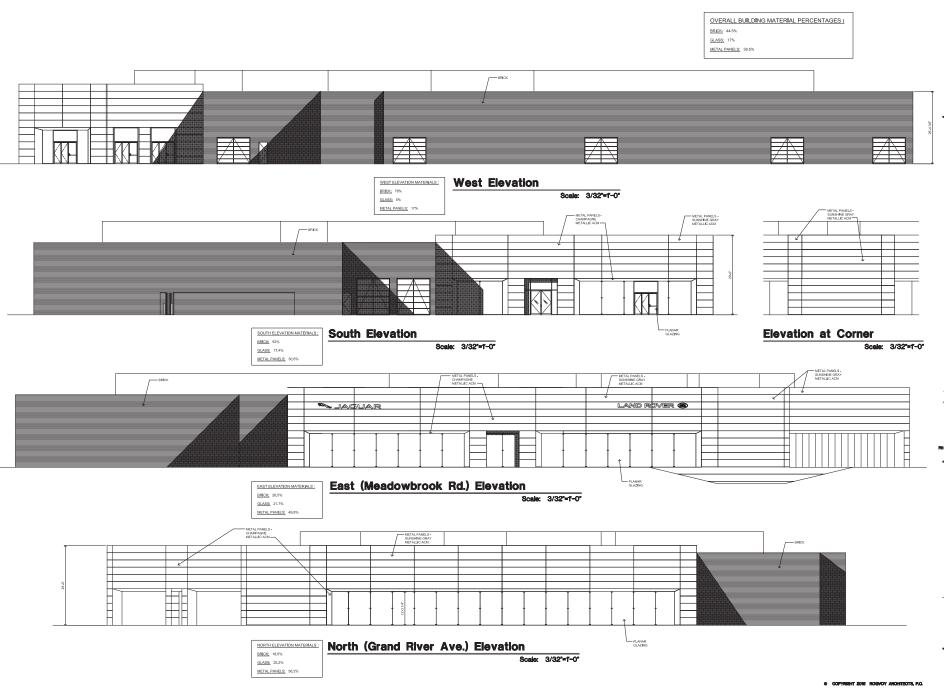
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approved: MD

te number:17018

FP-1

North Floor Plan 1/16" = 1'-0"



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project:

Jaguar Land Rover

ROGVOY



Proposed Elevations

leave date:
drawn: KL/BDB
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approved: MD

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**ELEV** 

Jaguar Land Rover Exterior Lighting Plan Novi, MI



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·	4MB- 40L	11	CINE INC	STELL WOSD HORLSE CONFIGURED FROM OSD HO A 44 4ME 401-40K	COMPTICURED FROM CINE CISO Series Area High Output Curristative with Stacksgirl Sheets, Type IV Medium Dischlander, KOL Currien Package, 4000K	COMPRISHED FROM 36 MEA LEDG	1	CND HD A BIE 60L-STE-LL W_CND HD BLSF H4	33739.45		Ī
ô	B-4ME- -WM	,	Cree tru	CONFIGURED FROM DEG A NO DEC 19-176	One CRIQ Serios Area Luminumo, Type IV Medium or Excitight Sheet, it begat Power Designation, STODE COMPRISIDED PREDIT One CRIQ Serios Area Luminumo, Type IV Medium or Excitights Sheet, U Inquit Power Designation, STODE	CONFIGURED FROM MOA.	,	CRIQ-A-XX-6ME- B-17K-LEXXXXX W_CRIQ- BLIMW_COMP1GU MED-MS	B950.626	,	
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-	3MB- 40L	,	Crie Inc	STICUL WOSD HO BLSF CONFIGURED FROM OSD	COMPIGURED FROM CINE CISO Series Area High Output Currenaire with Stackings Sheet, Type III Medium Delinbutan, GOL Lumin Package, 4000K	COMPRISHED FROM 24 SEDA LEDI	1	CRIQ HO-A-XX SME-80L-STE-SL W_CRIQ HO- BLSF_CONFIGUR ED-Hs	31014.77	,	Γ

Statistics						
Description	Symbol	Avg	Max		Max/Min	Avg/Min
Paved Areas	+	5.0 fc	13.2 fc	1.4 fc	9.4:1	3.6:1
Property Lines and Non Paved Areas	+	0.5 fc	12.5 fc	0.0 fc	N/A	N/A

Note

1. Security Lighting - No Exterior Lights will turn off during specific hours of the night and all existing exterior lighting is needed for security lighting purposes.

2. Pole Mounted Lighting - 25' AFG Mounting Height

3. Wall Mounted Lighting - 15' AFG Mounting Height

4. Pole Rouling Mounted Lighting - Full Cutoff - No Tilt

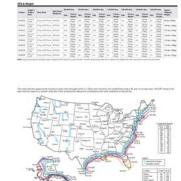
5. Matthewn Hillmannton at Commercial Property Line - 1.0FC MAX

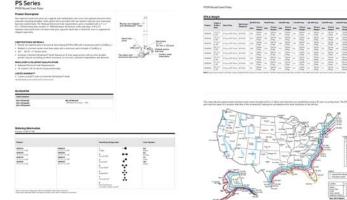
Plan View Scale - 1" = 60ft





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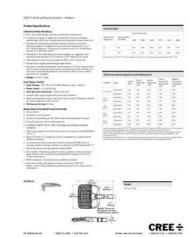
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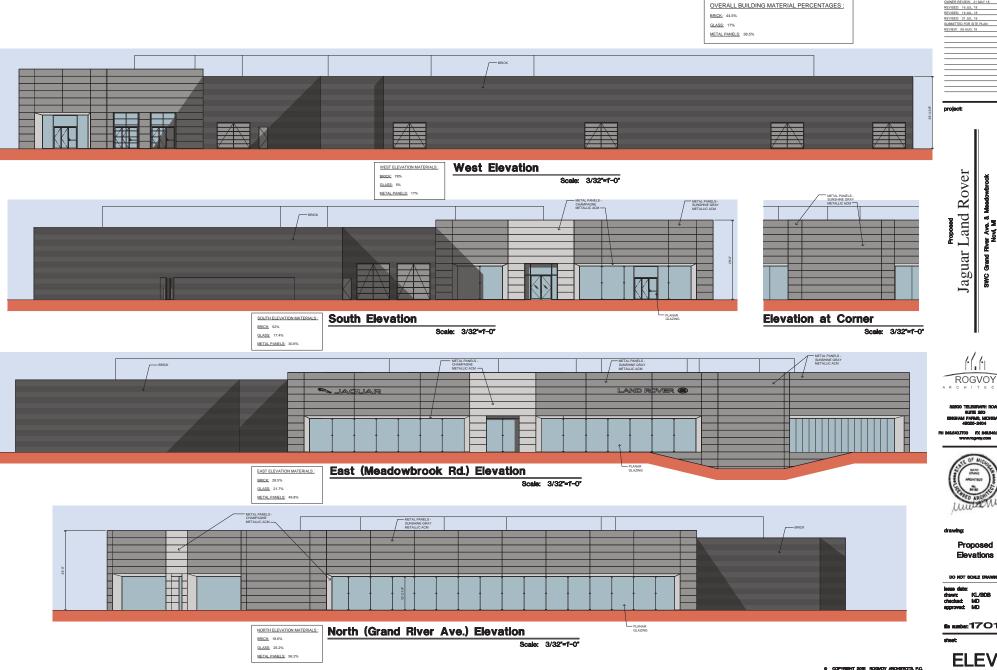
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Designer 8G Date 8/8/2018 Scale Drawing No. REV2 Summary

Jaguar Land Rover Exterior Lighting Plan Novi, MI



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Jaguar Land Rover

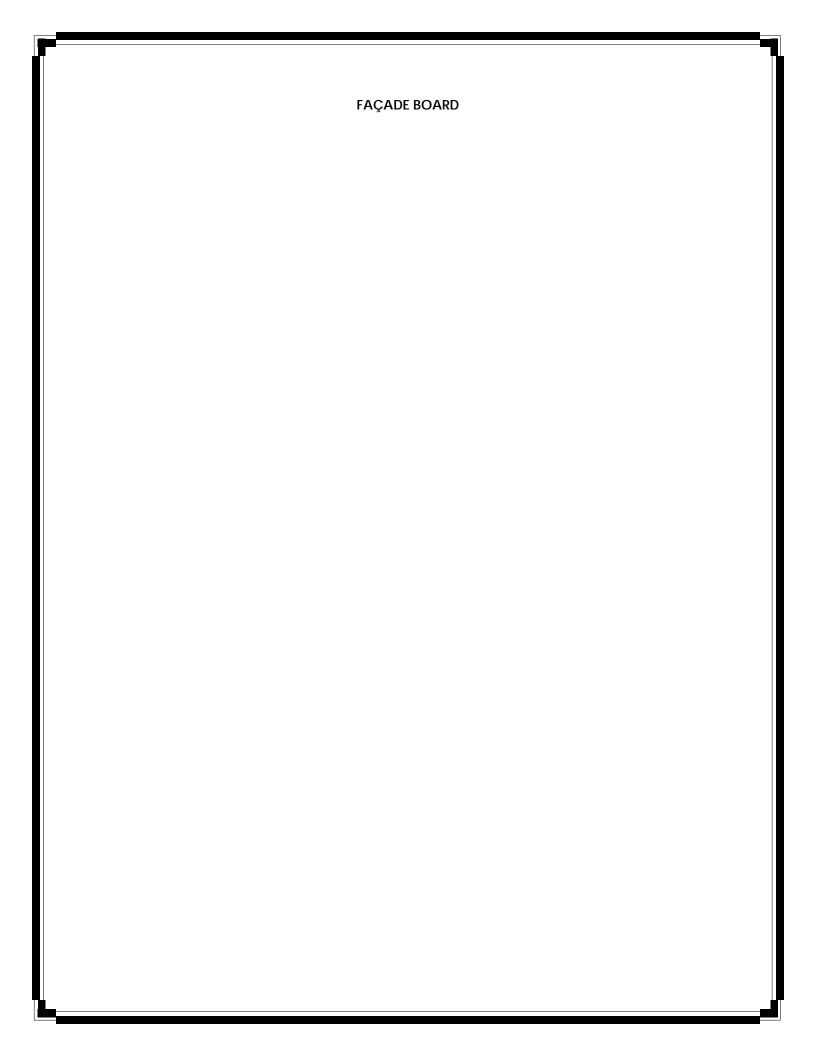


Proposed Elevations

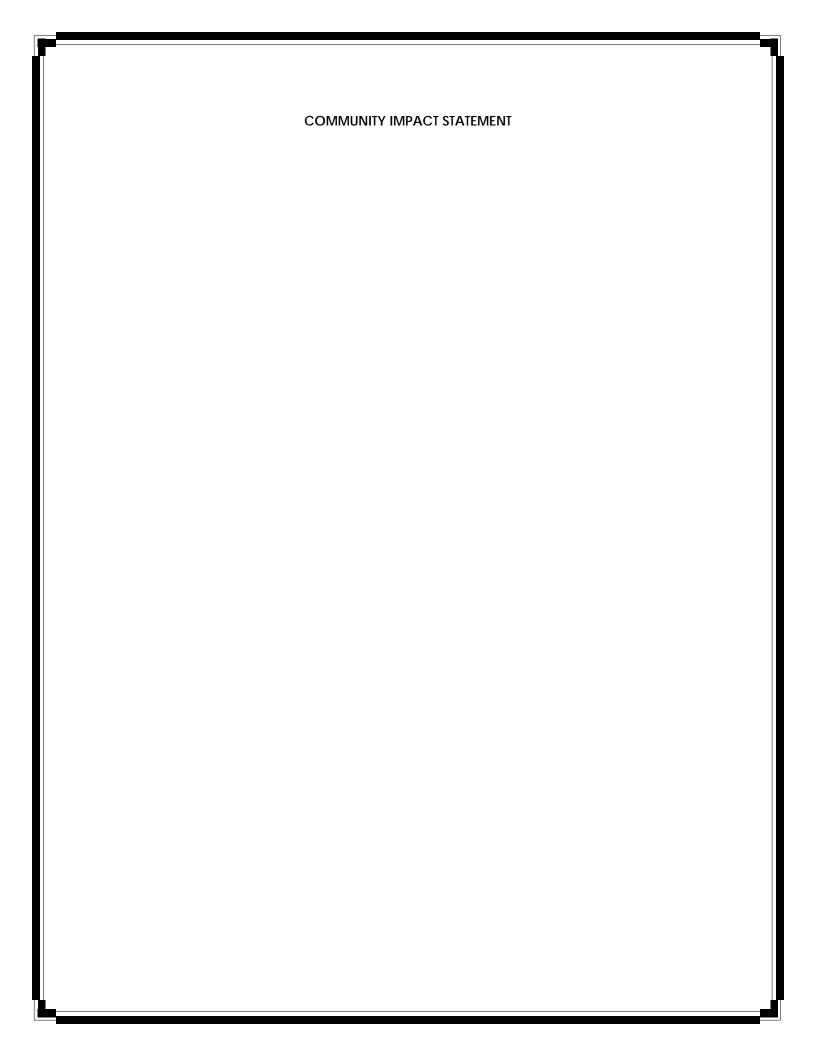
lease date: drawn: KL/BDB checked: MD approved: MD

to number:17018

**ELEV** 







# JLR NOVI, MICHIGAN

# Jaguar Land Rover Novi, Michigan

Rogvoy Architects, P.C.

**September 19, 2018** 

### Impact on Police and Fire Services:

Zero police and fire responses per year based on an existing local BMW dealership.

### Employment Opportunities:

It is projected that 20 to 30 jobs will be created during the construction of the building and site improvements. Once the construction of the building is complete, it will employ approximately 65 to 70 persons.

### · City Performance Standards:

A sound report has been provided from Kolano & Saha Engineers, Inc., there is no anticipated negative impact upon adjacent properties due to noise or emissions from the proposed development.

### Estimated Sewer & Water Taps:

There will be one (1) sewer tap and two (2) water taps. The demand level will carry on thoughout the day and will have normal operating pressures. There will be minimal impact on available water capacity. The utility demand will be 1.8 REU's per acre. There will be no apparent impact on the sanitary capacity of the downstream sewer within the City's infrastructure.

### Surrounding Land Uses:

The proposed use is consistent with the current existing Cadillac dealership on the opposite corner. The Site was recently rezoned to GE Gateway East district and is in keeping with the Master Plan.

Adjacent Land Uses are as follows:

NW: Zoned NCC Non-Center Commercial, Funeral Home

W: Zoned GE Gateway East, Multi-Family

<u>S</u>: (<u>Across Cherry Hill Rd</u>.): Zoned RM-2 High Densite Residential, Condominiums

E: (Across Meadowbrook Rd.): Mostly zoned OS-1 Office Service

<u>SE</u>: Zoned R-4 One Family Residential

N: (Across Grand River Ave.): Zoned NCC, Retail Center

### Proposed Land Use:

The 9.5 acre site is at the southwest corner of Grand River Ave. and Meadowbrook Road, in Section 23, Novi, Michigan. Presently the site is vacant.

Erhard JLR takes pride in running a neat and quiet dealership. All business activities should have no impact on surrounding uses.

### Social Impacts:

- Existing Users/Uses: Since the site is vacant, no residents, merchants or business owners will be displaced by the proposed development.
- Traffic Impact: A traffic impact study is provided.
- The development will be linked internally with the sidewalks and crosswalks. A bike path is planned along the north side of the development to connect the residential neighborhoods to the hospital and schools.
- Population Projections: There will be little change in demand upon school or city recreational facilities except those individuals that relocate due to employment opportunities.

### • Environmental Factors:

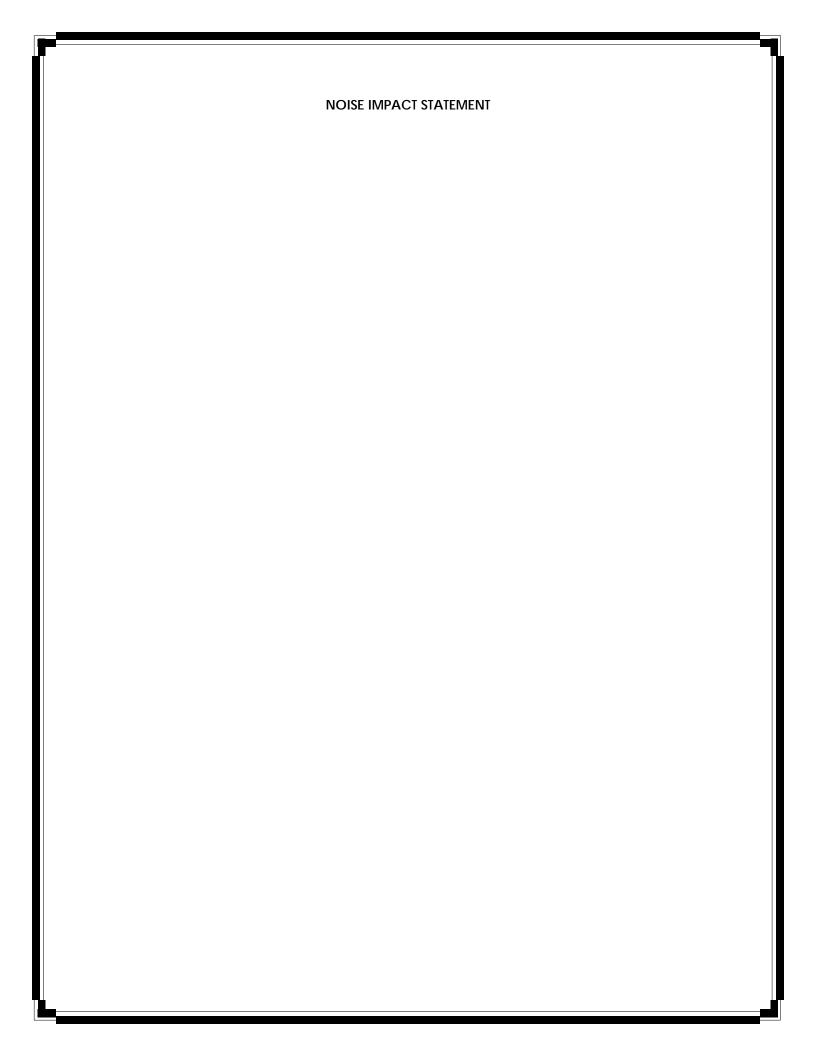
- Existing natural site features: The proposed site layout preserves mixed wetland, woodland, on the property. Some of the trees will be removed and replaced. Existing wetlands will be preserved and the overall existing elevations will remain.
- <u>Storage of Hazardous or Toxic Materials</u>: There will be no hazardous materials used. Storage of new and used motor oil will be within the building.
- <u>Underground Storage Tanks:</u> There are no existing underground tanks, and there will not be any underground tanks installed.
- <u>Environmental History</u>: Environmental testing was performed by G2 Consulting Group in September 2017 and there was no contamination on the site.

Impact on Wildlife: Any impact on existing wildlife will be temporary.

• Proposed Site Amenities (i.e. Sidewalks, Public Parks, Bicycle Paths, Etc):

There will be a bike path installed along Grand River Avenue per City requirements, bike racks will be provided on site, and connecting sidewalks will also be used to connect the proposed building to public walkways.

REM: G:/2017/17018







2018-167 August 7, 2018

Mr. Mark Drane Principal Rogvoy Architects 32500 Telegraph Road, Suite 250 Bingham Farms, Michigan 48025

Subject: Automobile Dealership Community Impact Study of Noise Levels

re: Jaguar-Land Rover – SWC Grand River Ave. & Meadowbrook Rd.

Novi, MI

Dear Mr. Drane:

At your request and authorization, Kolano and Saha Engineers, Inc. (K&SE) has conducted an investigation to predict the property line sound levels expected from the operation of the proposed referenced dealership. This includes service operations, vehicle deliveries, and building mechanical equipment. These sound levels were evaluated against the limits established by the City of Novi Ordinance.

### **Proposed Site**

The location of the proposed Jaguar-Land Rover dealership is at the southwest corner of Grand River Avenue and Meadowbrook Road. Most adjacent land uses the North, East and West are commercial. Property adjacent to the west of the southern half of the proposed site is zoned Gateway East (GE) and is currently undeveloped. The GE zoning has principal permitted uses that are commercial in function, though could include parks, mixed use or multi family. Property to the south is zoned residential. The City of Novi noise code limits for residential and commercial receiving land use apply at all respective property lines. **Exhibit 1** provides an aerial view of the site with the proposed building, drives and parking lot overlaid.

Sound level predictions were based on the location of property lines, mechanical equipment, location of service doors, and noise measurements conducted by K&SE for various elements that are expected to create noise at the proposed dealerships. The following documents were utilized for the predictions:

- Rogvoy Architects Drawings: Jaguar-Land Rover Novi; Site Plan, Floor Plan, Elevations, Roof Plan, Rooftop Mechanical, and Site Grading.
- Sound power data provided for the proposed rooftop air makeup units as provided to us by Rogvoy Architects.

### City of Novi Noise Code

The City of Novi Code, Zoning Ordinance, Section 5.14 Performance Standards, Subsection 10 Noise, restricts property line noise levels to 75dB(A) daytime and a 70dB(A) nighttime for business and commercial zones. Furthermore, it restricts property line noise levels to 60dB(A) daytime and 55dB(A) nighttime for residential zones. Daytime is defined as 7AM – 10PM with Nighttime occupying 10PM – 7AM.

Most of the dealership operations are expected to take place during the day though some early deliveries may occur before 7AM. It is expected that the roof top mechanical equipment may operate 24 hours a day to maintain building environmental conditions.

Furthermore, in the Novi Code of Ordinances helps to help reduce the impact of trucks and other motor vehicles in Section 22-100. This ordinance regulates idling, standing and loading/unloading of motor vehicles. The purpose of this section is to limit 'exhaust and noise from standing, idling, and loading/unloading of motor vehicles' which can present an 'unreasonable risk to the general health safety and welfare of the community and otherwise presents a nuisance to residents living in close proximity.' Under this ordinance, the period of time between 8PM and 7AM is protected for residents to enjoy the use of their property without undue impact from idling, standing, loading/unloading of motor vehicles. In particular:

- (c)...(1) Between the hours of 8:00 p.m. and 7:00 a.m. (the following day), it shall be unlawful to permit, cause, or occupy any standing or idling motor vehicle or commercial vehicle within four hundred (400) feet of any residential structure, for more than fifteen (15) consecutive minutes or for a period or periods of time aggregating more than fifteen (15) minutes in any one (1) hour
- (d)...(1) Between the hours of 8:00 p.m. and 7:00 a.m. (the following day), it shall be unlawful for any person to load/unload or permit the loading or unloading of any commercial vehicle within four hundred (400) feet of a residential structure, in any street, parking lot, or loading or unloading zone, dock, bay or area...

This ordinance is expected to limit early morning deliveries to locations on the site where truck loading/unloading operations would be more than 400 feet from nearby residents.

### Advanced Computer Modeling Noise Prediction

Sound is a physical phenomenon that can be readily predicted with reasonable accuracy. In order to evaluate the sounds created from the proposed automobile dealership and determine what noise impact may occur at the site boundaries, we developed an advanced three dimensional acoustical model. This model allows accurate prediction of sound levels created by the operation of known building mechanical systems and related dealership operations. The computer program we use for this modeling relies on international standards (such as ISO 9613) to properly calculate and predict sound levels. The computer program relies on user inputs of terrain, structures, foliage, obstacles, sound reflective and absorptive surfaces, receiver positions, as well as the type of sound source, including point sources (small individual devices, such as small fans), line sources (numerous sources in a line, such as road traffic), and area sources (sources with large surface areas, such as transformers). By using this predictive tool we have constructed a virtual acoustic model of the proposed automobile dealership site and have developed sound level predictions for it.

### **Building Rooftop Mechanical Equipment**

Building mechanical systems primarily consist of roof top air handling units and ventilation fans and are located at various points on the roof of the dealership building. Sound level data used for these mechanical systems comes from the unit manufacturers. Our modeling assumes a worst case scenario with all units operating simultaneously at nighttime on a continuous basis. The predicted sound level contour plots with this equipment operating are shown in **Exhibit 2**. The predicted sound level for the rooftop mechanical equipment is expected to be below all applicable ordinance noise limits.

### Trash Compactor

A trash bin and compactor are planned to be located on the south side of the building. Sound level data used for the trash compactor comes from our measurement conducted at other commercial facilities that utilize similar equipment. The predicted sound level contour plots with the trash compactor operating are shown in **Exhibit 3**. This predicted sound is expected to be below all applicable ordinance noise limits.

### Delivery Trucks Traveling on Site

The dealership is expected to receive deliveries at various times during the day and early mornings, potentially prior to 7AM. Cargo vans, box trucks as well as an occasional semi-truck are expected make these periodic deliveries of vehicle parts and business supplies. Trucks are expected to enter from Meadowbrook Road, travel along the south of the building, turn right to then travel along the west side of the building, and finally exit the site onto Grand River Ave. Cargo vans and box trucks are expected to make deliveries at two locations; the south side of the building near the west corner, and the west side of the building at the Parts Storage Room access door. The semi-trucks are expected to park along the north side of the drive such that the back of the trailer is positioned near the Parts Storage Room access door. Exhibit 4, 5 & 6 provide the modeled configurations for semi-trucks and box trucks making deliveries on the site.

Semi-trucks driving along the west side of the building, as shown in **Exhibit 4**, are expected to be 2 dB higher than the nighttime commercial noise limit at distances within 10 feet of the property line on the commercial property to the west (O'Brien-Sullivan Funeral Homes). This same level is 3dB less than the daytime noise limit. This minor nighttime excursion is not expected to have any significant impact to the funeral home as the excursion does not occur in areas where people would normally reside. Additionally, though not taken into account in our model, there is vegetation along the property line on the side of the funeral home property that will help buffer some of the sound from the dealership.

Semi-truck and Box Truck delivery operations, as shown in **Exhibits 5 & 6**, are expected to comply with daytime and nighttime ordinance limits.

### Car Carrier Loading/Unloading

The dealership is expected to receive vehicles to sell as well as to ship some vehicles off site. These deliveries are commonly made by car carrier trucks which produce similar sounds to other semi-trucks when being driven, though have a unique series of sounds while loading and unloading vehicles. We have conducted measurements of various sources of sound, including car carrier truck loading/unloading operations, from previous investigations and have compiled a database of sound sources. The car carrier operations contain multiple sound sources including the semi-truck idling, hydraulic pump operation, hydraulic actuators, shifting and setting of mechanical elements, and vehicles being driven onto and off the carrier. These operations have been compiled into a composite set of sound levels for the purpose of predictive modeling. The results of this model, as shown in **Exhibit 7**, are expected to comply with day and nighttime limits for adjacent commercial properties, though are expected to only comply with the daytime limits for adjacent residential properties.

### **Conclusions**

Based on the findings of our study and under proper management, we expect the proposed Jaguar-Land Rover Dealership to be largely in compliance with the City of Novi ordinance noise criteria. The only exception that we anticipate will be for semi-trucks traveling along the west side of the dealership building. The result is expected to be a relatively small exceedance of 2dB above the commercial nighttime noise limit along the western property line adjacent to the funeral home. This small exceedance is not expected to create adverse impact, as stated in our evaluation of delivery trucks above.

Mr. Drane, we hope this summary of our investigation is informative and helpful. Should you need additional information regarding this work or additional assistance, don't hesitate to ask.

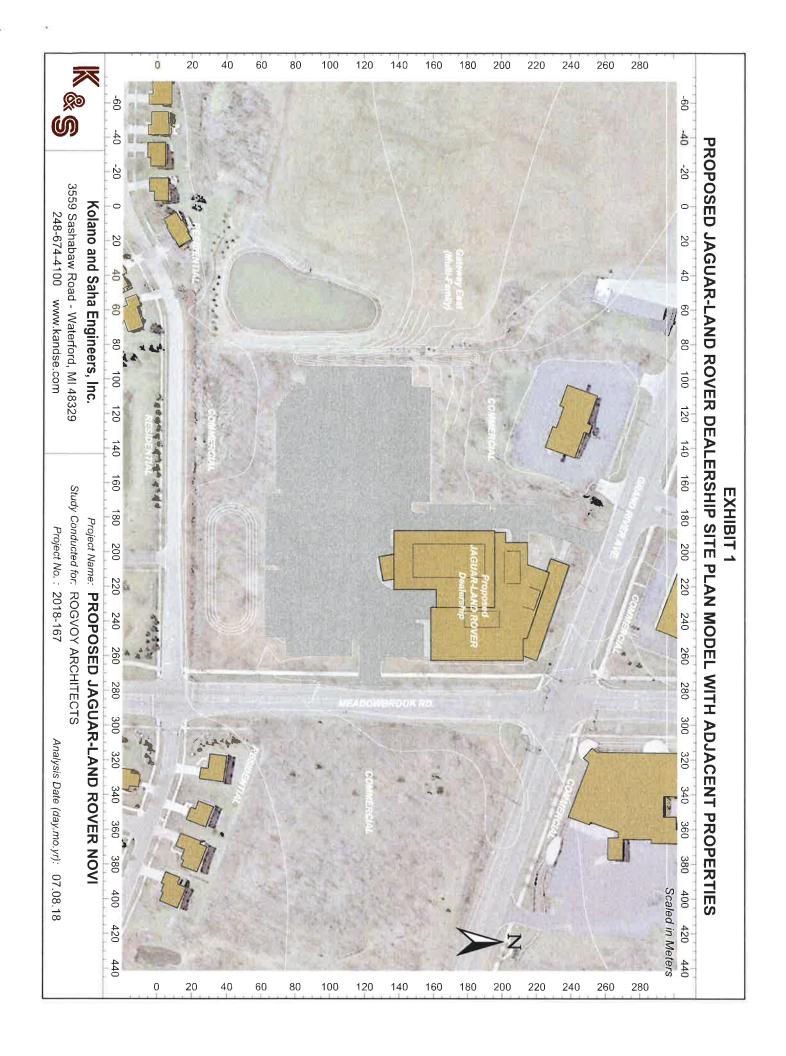
Sincerely,

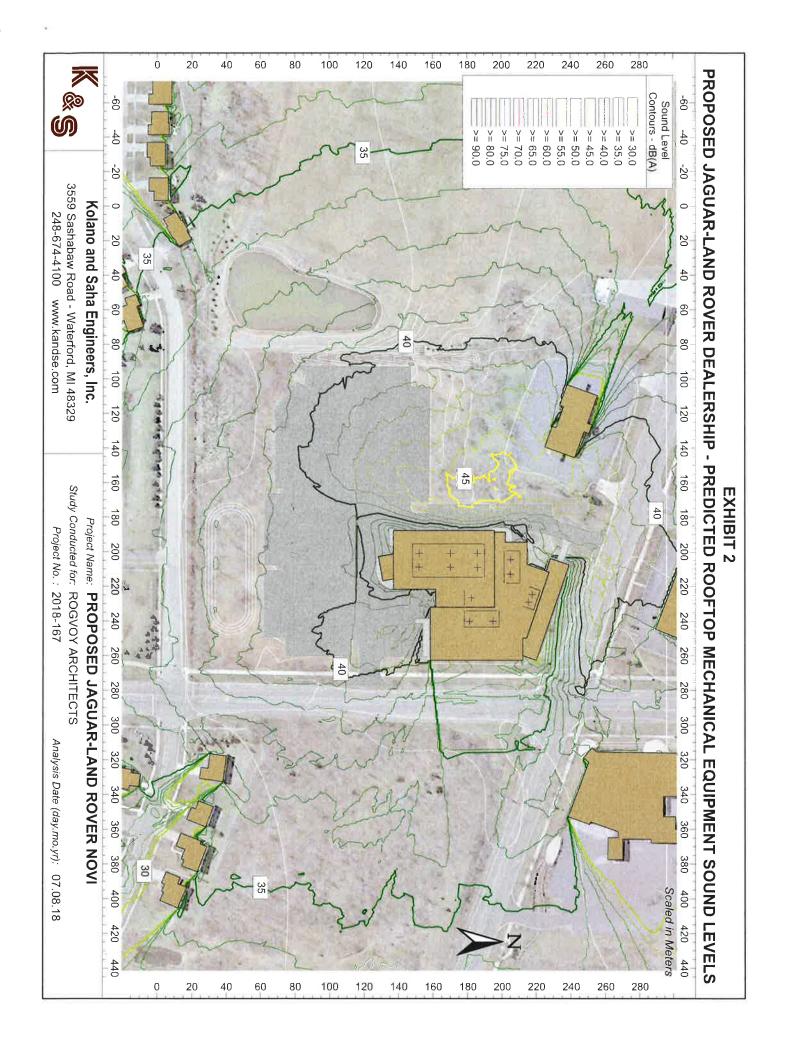
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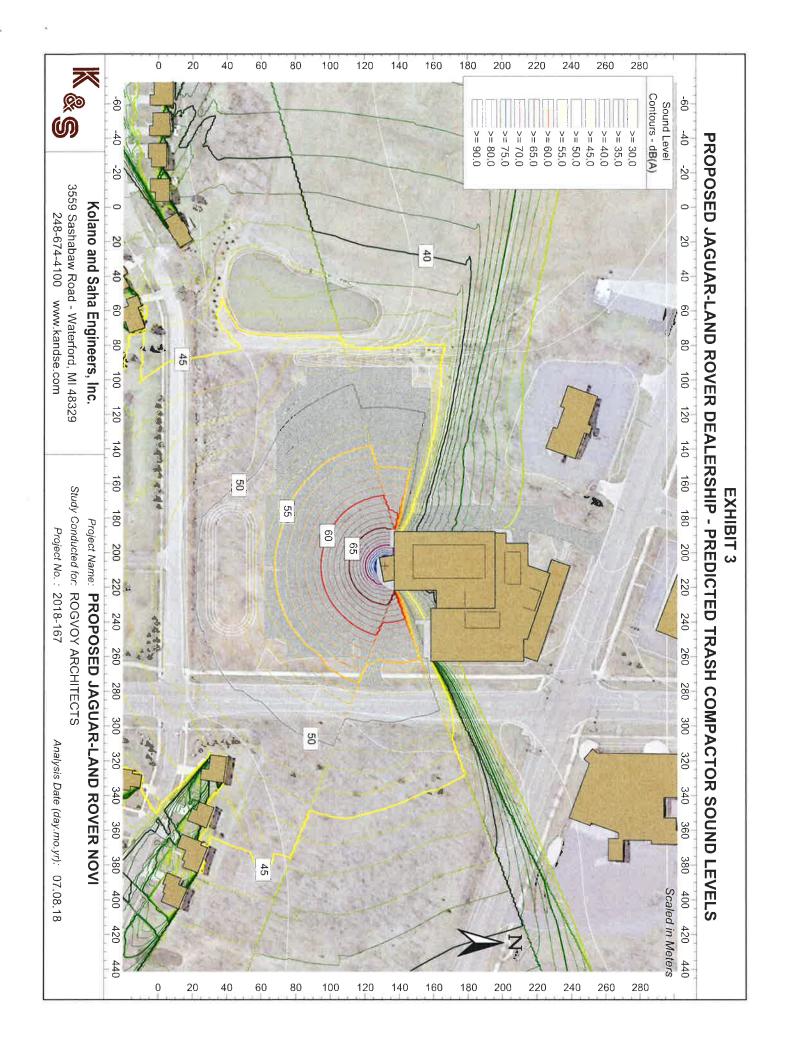
Darren Brown, P.E.

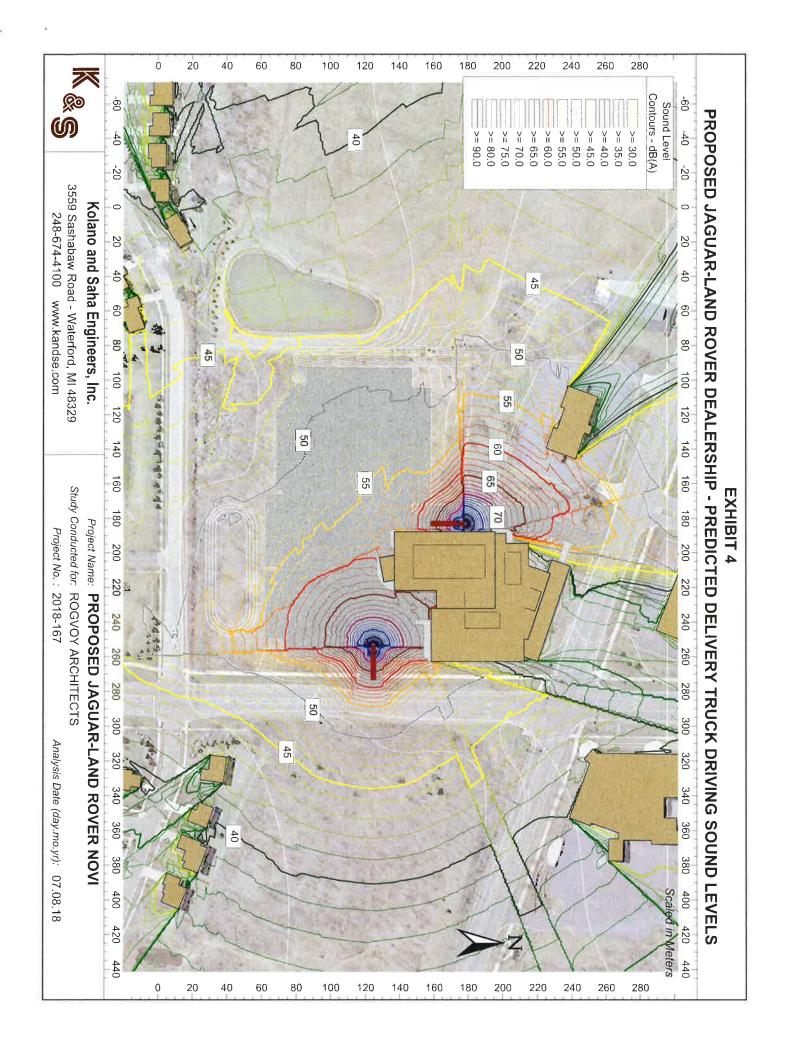
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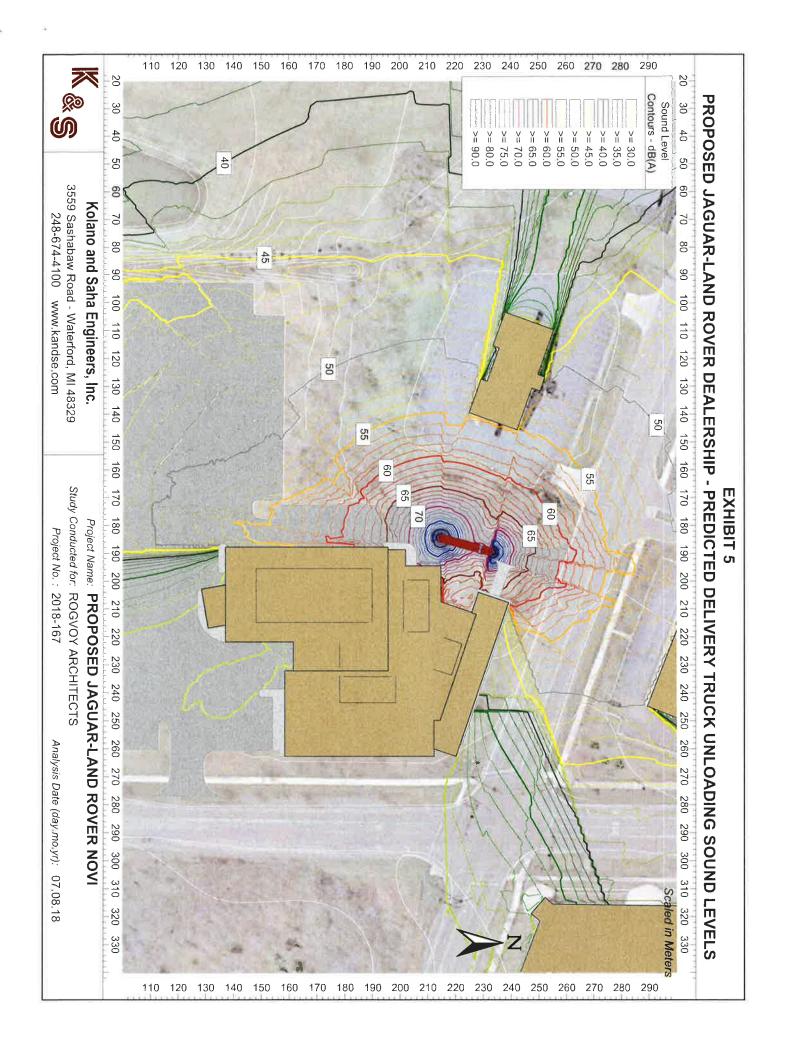
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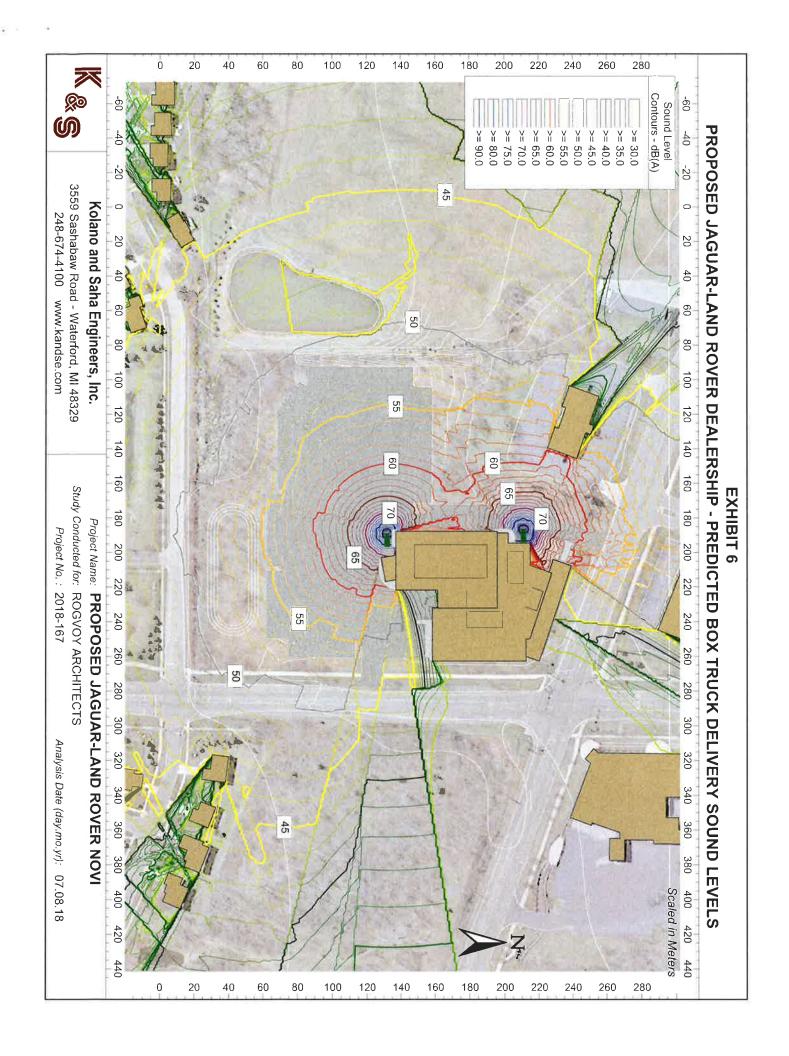


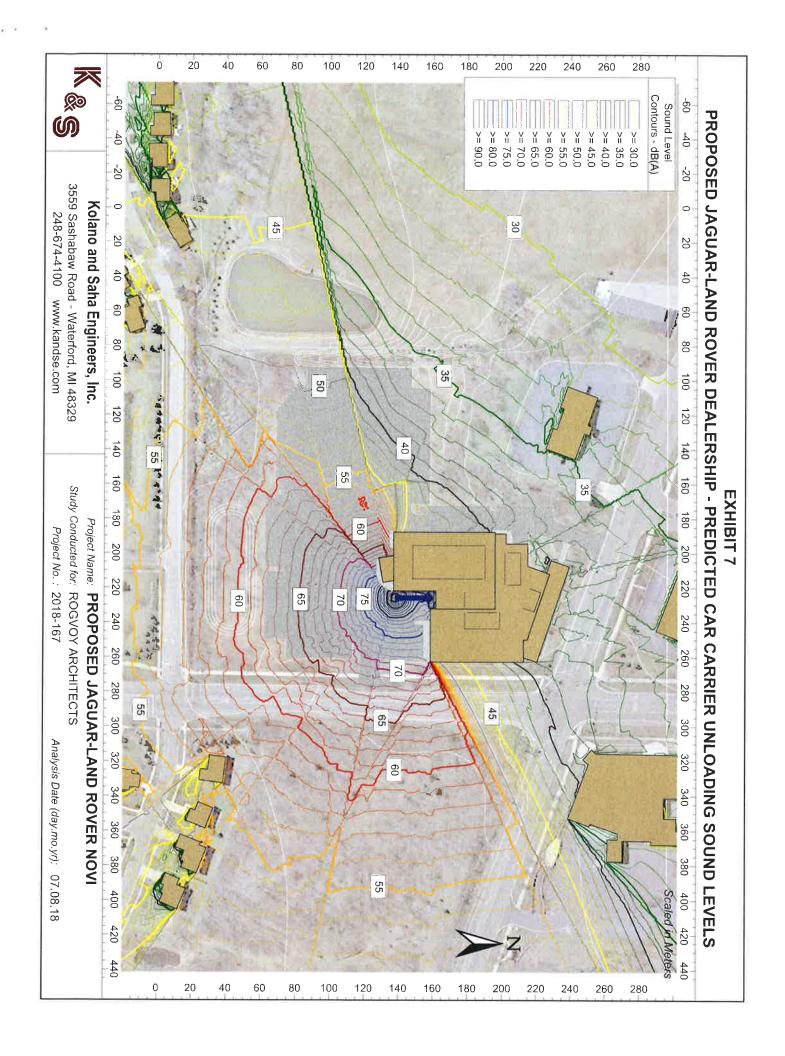


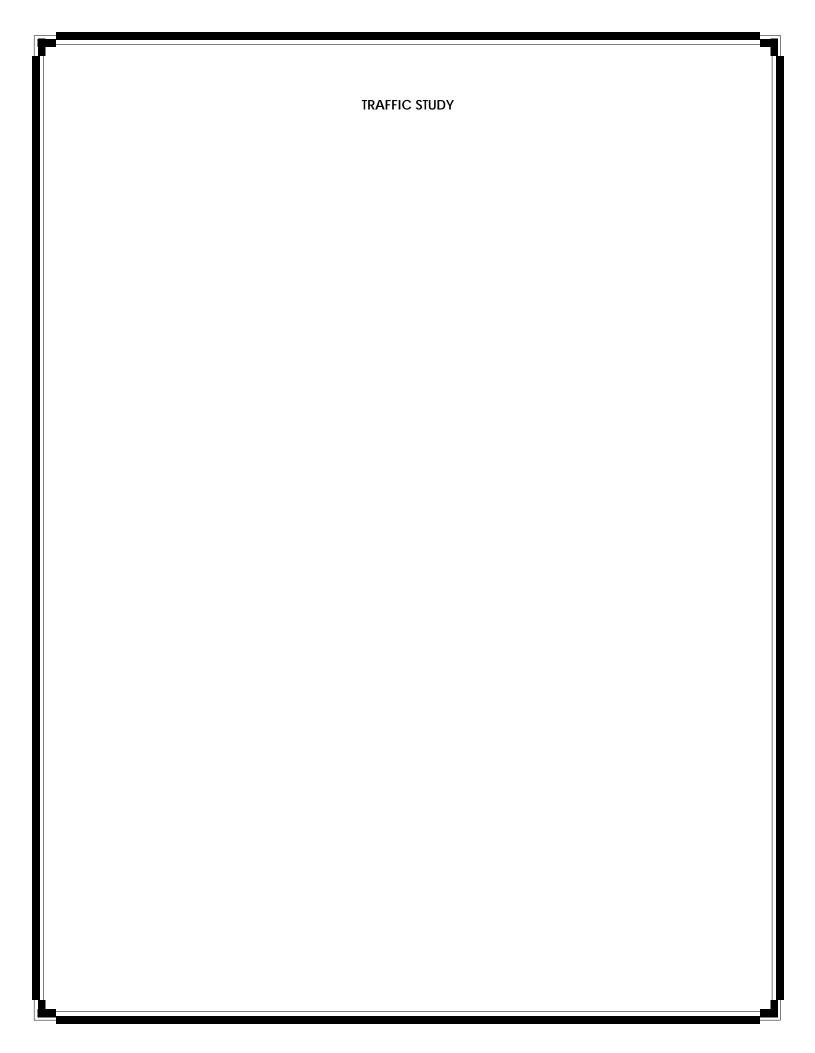
















**VIA EMAIL** 

To:

Mr. Mark Drane, AIA, LEED AP

**Rogvoy Architects** 

From:

Julie M. Kroll, PE, PTOE

Fleis & VandenBrink

Date:

Revised July 19, 2018

Re:

**Jaguar Land Rover Dealership** 

City of Novi, Michigan

Rezoning Traffic Impact Study

#### INTRODUCTION

This memorandum presents the results of the Rezoning Traffic Impact Study (RTIS) for the proposed Jaguar Land Rover dealership in the City of Novi, Michigan. The project site is located in the southwest quadrant of the Grand River Avenue & Meadowbrook Road intersection and is currently undeveloped. In accordance with the City of Novi Site Plan and Development Manual, a RTIS is required for the proposed rezoning. Included in this RTIS are a description of existing conditions, current traffic data, land use planning and zoning information, and a vehicle trip generation comparison between the existing and proposed zoning classifications.

An RTIS was previous completed in October 2017 for an Erhard BMW car dealership on this site. Since then, the site plan has been updated to reflect a new car dealership, Jaguar Land Rover. This car dealership has a slightly larger showroom and thus generates marginally more trips in accordance with the methodologies in the ITE *Trip Generation*, 10<sup>th</sup> Edition, which generates trips for this land use based on building square footage. The trip generation comparison of the BMW land use from the previous study (October 2017) and the updated Land Rover study included herein are summarized in **Table 1**.

Average Daily AM Peak Hour (vph) PM Peak Hour (vph) ITE Traffic (vpd) Land Use Code Units Total Out Total **Amount** ln Out ln. **BMW** Automobile Sales 841 77 53,211 SF 1,719 25 102 50 75 125 Land Rover Automobile Sales 841 58,663 SF 1,895 85 28 113 54 82 136 SF 8 3 4 7 5.452 176 11 11 Difference

**Table 1: Trip Generation Comparison** 

# **EXISTING ROAD NETWORK**

**Grand River Avenue** runs generally in the east and west directions along the north side of the subject site with a posted speed limit of 50 miles per hour (mph). The study section of Grand River Avenue is under the jurisdiction of the Road Commission for Oakland County (RCOC) and carries an Annual Average Daily Traffic (AADT) volume of approximately 19,100 vehicles per day. The study section of Grand River Avenue is a typical three lane cross section with one travel lane in each direction and a center lane for left turns.

**Meadowbrook Road** runs in the north and south directions along the east side of the subject site with a posted speed limit of 40 mph. The study section of Meadowbrook Road is under the jurisdiction of the City of Novi and carries an AADT of approximately 10,600 vehicles per day. The study section of Meadowbrook Road is a

typical three lane cross section with one travel lane in each direction and a center lane for left turns. The traffic volume data were obtained from the Southeast Michigan Council of Governments (SEMCOG).

## **EXISTING CONDITIONS**

Approximately 3.5 acres of the overall 8.5 acre subject site is currently zoned as Office Service District (OS-1) and approximately 5.0 acres is zoned Non-Center Commercial (NCC). The subject site is proposed for rezoning to the Gateway East (GE) zoning district. The parcel is bound by NCC and GE zoning to the west and is occupied by the existing O'Brien Sullivan Funeral Home and Brooktown Apartments which are currently under construction. To the south of Cherry Hill Road is currently zoned High-Density Multiple-Family (RM-2) which is occupied by the Meadowbrook Commons Senior Living Apartments. To the north of Grand River Avenue is currently zoned NCC and is occupied by a strip commercial center with various retail and fast-food restaurant uses. To the east of Meadowbrook Road is currently zoned OS-1 and is undeveloped. The northeast corner of the Grand River Avenue & Meadowbrook Road intersection is zoned GE and is occupied by the Cadillac dealership.

# TRIP GENERATION ANALYSIS

The City Zoning Ordinance describes the land uses permitted by-right under the existing OS-1 and NCC zoning classifications. In order to determine the maximum site trip generation potential under the existing and proposed zoning classifications, the principal uses permitted under each zoning classification must be matched to the land use categories described by the Institute of Transportation Engineers (ITE) in *Trip Generation*, 10<sup>th</sup> Edition. Furthermore, the maximum allowable building density for each land use scenario must be determined, where trip generation data by site acreage is not available.

- **OS-1 Zoning:** The Ordinance definition of uses permitted under OS-1 zoning includes professional office buildings, medical office buildings, places of worship, and other similar uses. Review of the ITE land use descriptions indicates that the General Office (#710) and Medical Office (#720) uses best match the uses defined by Ordinance. Other applicable ITE land uses such as Church (#560) were reviewed but have lesser trip generation rates.
- NCC Zoning: The Ordinance definition of uses permitted under NCC zoning includes retail, office buildings, medical office buildings, and sit-down restaurants. Review of the ITE land use descriptions indicates that the Shopping Center (#820), General Office (#710), and Medical Office (#720) uses best match the uses defined by Ordinance.
- GE Zoning: The 8.5 acre subject parcel is proposed for rezoning to the GE zoning classification. The
  Ordinance definition of uses permitted under GE zoning includes retail, restaurants, professional office
  buildings, and medical office buildings. Review of the ITE land use descriptions indicates that Shopping
  Center (#820) and High Turnover (Sit-Down) Restaurant (#932) uses best match the uses defined by
  Ordinance.

The maximum trip generation potential of the subject site was forecast for the existing OS-1 / NCC zoning and proposed GE zoning classifications. The number of weekday, AM peak hour, and PM peak hour vehicle trips was calculated based on the rates and equations published by ITE in *Trip Generation*, 10<sup>th</sup> Edition. The trip generation forecasts are shown in **Table 2**.



**Table 2: Rezoning Zoning Trip Generation Comparison** 

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Zoning	Land Use	ITE	Amount	Units	Average Daily	AM	Peak Ho	ur (vph)	PM P	eak Hou	r (vph)	
Zonnig	Land Osc	Code	Amount	Units	Traffic (vpd)	In	Out	Total	ln	Out	Total	
Existing OS-1	Medical Office	720	24,500	SF	854	50	14	64	24	61	85	
			40,000	SF	3,224	24	14	38	73	79	152	
Existing NCC	Retail	820	Pass-	-Ву	1 ST 1 -			100	25	27	52	
			New		3,224	24	14	38	48	52	100	
			Drive	way	4,078	74	28	102	97	140	237	
Max fo	r existing zoning		Pass-By New				_ 51		25	27	52	
					New		4,078	74	28	102	72	113
			35,000	SF	2,944	20	13	33	64	69	133	
	Retail	820	820	Pass	-Ву			7		22	23	45
Duamagad CE			Nev	N	2,944	20	13	33	42	46	88	
Proposed GE	High-Turnover		200	Seats	874	50	46	96	48	36	84	
	(Sit-Down)	932	Pass	-Ву	w White Call				21	15	36	
	Restaurant		Nev	N	874	50	46	96	27	21	48	
	-		Driveway		3,818	70	59	129	112	105	217	
Max for proposed zoning			Pass-By <b>New</b>						43	38	81	
	-				3,818	70	59	129	69	67	136	
1	Potential change in	New Tr	ips		-260	-4	31	27	-3	-46	-49	
Proposed Development	Automobile Sales	841	58,663	SF	1,895	85	28	113	54	82	136	

Relative to the existing and proposed zoning classifications, ITE publishes trip generation data by square feet (SF) for retail, restaurant, and office uses. Therefore, the maximum allowable density for these uses was determined based on information provided by ROGVOY Architects.

As is typical with retail and restaurant land uses, a portion of the site-generated trips are already present on the adjacent road network and are interrupted to visit the site. These trips are known are known as "pass-by" trips and account for a percentage of the total site trip generation. Pass-by trips result in turning movements at the site driveways, but do not increase traffic volumes on the adjacent road network. New trips describe vehicle trips which are made for the specific purpose of visiting the site, and would not be on the adjacent road without the subject land use. The percentage of pass-by trips was obtained from the ITE *Trip Generation Handbook*,  $3^{rd}$  *Edition*.

The results of the trip generation comparison indicate that the proposed rezoning would result in an increase in new trips during the AM peak hour and a decrease in new daily trips and during the PM peak hour. Additionally, the proposed development associated with the rezoning would result in a similar number of new daily and peak hour trips as the uses permitted under the existing zoning classifications.

Any questions related to this memorandum should be addressed to Fleis & VandenBrink.

Attached: SEMCOG Data

SJR:jmk



# **Crash and Road Data**

# **Road Segment Report**

**Grand River Ave, (PR Number 4104142)** 

From: Town Center Dr 11.689 BMP

To: Meadowbrook Rd 12.427 EMP

**FALINK ID:** 17218

Community: City of Novi

County: Oakland

**Functional Class:** 4 - Minor Arterial

**Direction:** 1 Way

Length: 0.738 miles

Number of Lanes: 3

**Posted Speed:** 50 (source: TCO)

Route Classification: Not a route

**Annual Crash Average 2012-2016:** 29

Traffic Volume (2016)\*: 19,100 (Default AADT)

Pavement Type (2016): Asphalt

Pavement Rating (2016): Poor

**Short Range (TIP) Projects:** No TIP projects for this segment.

**Long Range (RTP) Projects:**No long-range projects for this segment.

43 43 43

Street View

<sup>\*</sup> AADT values are derived from Traffic Counts

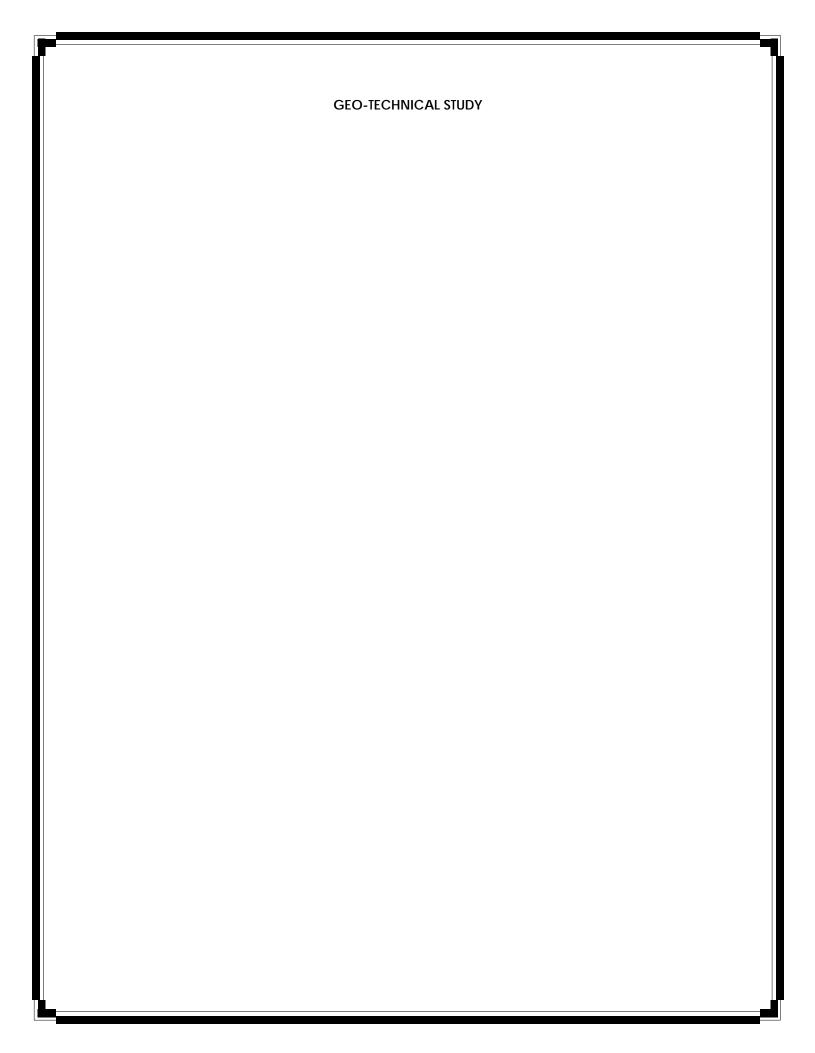
# **Crash and Road Data**

# **Road Segment Report**

# Meadowbrook Rd, (PR Number 656706) From: 10 Mile Rd W 1.997 BMP To: Grand River Ave 2.629 EMP **FALINK ID:** 2081 Community: City of Novi County: Oakland **Functional Class:** 4 - Minor Arterial Direction: 1 Way Length: 0.632 miles Number of Lanes: 3 **Posted Speed:** 40 (source: MSP) Route Classification: Not a route Annual Crash Average 2012-2016: 10 Traffic Volume (2016)\*: 10,600 (Default AADT) Pavement Type (2016): Asphalt Pavement Rating (2016): Poor **Short Range (TIP) Projects:** No TIP projects for this segment. Long Range (RTP) Projects: (10589) Capacity Improvement

Street View

<sup>\*</sup> AADT values are derived from Traffic Counts



# Geotechnical Investigation Proposed BMW of Novi

SWC of Grand Rive Ave and Meadowbrook Road Novi, MI

Erhard BMW Kenneth Widerstedt 4065 West Maple Road Bloomfield Hills, MI 48301

June 23, 2017 PEA Project No. 2017-176



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June 23, 2017 PEA Job No: 2017-176

Mr. Kenneth Widerstedt, Facility Manager Erhard BMW 4065 West Maple Road Bloomfield Hills, Michigan 48301

RE: Geotechnical Investigation

Proposed BMW of Novi

**SWC of Grand River Avenue and Meadowbrook Road** 

City of Novi, Oakland County, Michigan

Dear Mr. Widerstedt:

**PEA**, Inc. (**PEA**) has performed a geotechnical investigation for the proposed new dealership of the BMW of Novi in Novi, Michigan. The purpose of our investigation was to determine the general subsurface conditions at planned location for the new building and parking areas in order to provide foundation and related site preparation recommendations.

Based on our investigation, the site soils over the whole site generally consist of black silty sand topsoil which overlies a medium stiff to hard silty clay, which is native to the site.

Groundwater was encountered in boring TB-7 during drilling at 7 feet below existing ground surface and is not expected to impact construction or operation of the building construction.

A minimal amount of earthwork will be needed to achieve final design grades. We anticipate cuts and fills of 1 to 2 feet. Following successful completion of earthwork operations, we recommend that the proposed building be supported by shallow foundations bearing on engineered fill or on the native soils. We caution that if site conditioning and earthwork operations are during wet or cold weather (i.e. any time other that late spring to early fall) significant difficulty should be anticipated.

The data obtained during this investigation along with our evaluations, analysis and recommendations are presented in the subsequent portions of this report.

# **Site Conditions and Proposed Construction**

The proposed BMW of Novi is located at the southwest corner of Grand River Avenue and Meadowbrook Road. The site is bordered by Grand River Avenue to the north, Meadowbrook Road to the east, Cherry Hill Road to the south, and O'Brein-Sullivan Funeral Home and trees to the west. The proposal calls for a new dealership building along with associated parking, drives and site work.

The site is irregularly shaped as shown on the Test Boring Location Plan with a frontage on Grand River Avenue of about 400 feet and on Meadowbrook Road of about 634 feet. The perimeter of the site is generally tree lined with a wetland located in the southwest corner of the site. The ground surface near the west side of the site at Grand River Avenue is about Elevation 898. The ground surface along Meadowbrook Road varies from about Elevation 889 to 883. In general, the site slopes to a swale flowing from the northeast corner to the wetland at about Elevation 886 to 879. Within the proposed building area, the ground surface varies from about 888 to 892.

Page 2

In addition, most of the proposed building area appears to have been graded as part of an earlier site development that installed both water mains and hydrants on the site as well as sanitary sewer leads. Vegetation within this area is sparse.

Although no specific loading information was available for the proposed building, we anticipate slab-ongrade construction and loads will not exceed 150 kips for interior columns and 3,000 pounds per linear foot for walls. We anticipate a finish floor elevation of about 888 to 890. These elevations result in cuts and fills of 1 to 2 feet at the proposed building location. We also understand that any existing underground utilities would be reused, if applicable.

# **Regional Geology and Seismic Activity**

Based on Michigan Department of Environmental Quality Quaternary Geology Map of Michigan and the Oakland County Surficial Geology Map, the site soils were generally deposited as a moraine adjacent to glacial outwash sand and gravel and postglacial alluvium. Based on the Oakland County Bedrock Topography Map, bedrock is about elevation 600 or 290 feet below the surface.

Southern Michigan and Novi are considered to have a relatively low seismic risk. The appropriate geotechnical design considerations for seismic conditions should be applied based on the Michigan Building Code. Based on our interpretation of the test borings and understanding of the soil conditions below the depth of exploration, we recommend the site be classified as a Class D Site.

# Field Investigation

We investigated subsurface conditions at the existing facility site by drilling nine test borings designated TB-1 to TB-9, and are presented as Figures 1-9. Stock Drilling Company drilled the test borings on June 8 and 9, 2017. The boring locations are shown on the Test Boring Location Plan. Ground surface elevations were surveyed by PEA.

Test borings extended to depths of 20 feet and were advanced by 3 inch inside-diameter hollow-stem casings. Soil samples were taken at intervals of generally 2.5 feet within the upper 10 feet and at 5 foot intervals below 10 feet. These test boring samples were taken by the Standard Penetration Test method (ASTM D-1586). Geotechnical engineers generally accept that auto hammers are more efficient that the traditional manual hammer. Therefore, the "N" value obtained in the field by using the auto hammer will generally be lower than those found using the manual hammer. We consider the blows from the automatic hammer will be about 2/3 to 3/4 of the blows using a cathead and rope. The actual blows from the auto hammer and the "N" value are presented. However, the relative density description is based on both the actual auto hammer and an expected equivalent N from a manual hammer. Most published soil parameters utilizing the N value are based on the manual hammer.

The soil samples obtained with the split-barrel sampler were sealed in containers and transported to our laboratory for further classification and testing. We will retain these soil samples for 60 days after the date of this report. At that time, we will dispose of the samples unless otherwise instructed.

# Presentation of Data

We evaluated the soil and groundwater conditions encountered in the test borings and have presented these conditions in the form of individual Logs of Test Borings on Figure 1 through 9. The nomenclature used on the boring logs and elsewhere are presented on the Soil Terminology sheet, Figure 10. The stratification shown on the test boring logs represents the soil conditions at the actual boring locations. Variations may occur between the borings. The stratigraphic lines represent the approximate boundary

between the soil types, however, the transition may be more gradual than what is shown. We have prepared the logs included with this report on the basis of field classification supplemented by laboratory classification and testing.

# **Laboratory Testing**

The soil samples obtained from the test borings were also classified in our laboratory. Selected samples were tested to determine natural moisture contents. Testing was performed in general accordance with current ASTM standards. The results of these tests are presented on the individual Logs of Test Borings.

# Soil Conditions and Evaluations

From the information developed during this investigation, subsoil conditions are generally similar throughout the site. A topsoil overlies native soils consisting of medium stiff to hard brown or grey silty clay with varying amounts of sand and gravel. The stiffness of the clay generally increased from medium stiff to very stiff or hard. Small layers of medium stiff clay were encountered near the end of the boring in TB-5 and TB-8. Occasional sand seams were observed in borings TB-2, TB-3, TB-6 and TB-7. Cobbles were encountered in TB-2, TB-6 and TB-8. The moisture content of the top soil sample ranged from 11 to 19 percent and generally decreased with depth. The soil profile was generally consistent across the site.

# Site Preparation

On the basis of available data, we anticipate a minimal amount of earthwork will be required to achieve final design grades. We recommend that all earthwork operations be performed under adequate specifications and be properly monitored in the field. We expect the earthwork to consist of minimal cuts and fills to bring the site to grade; preparing for floor slabs and pavement. We recommend the following earthwork operations be performed.

- Any surface vegetation should be cleared. Topsoil or any other organic soils, if encountered, should be removed in their entirety from the building and parking areas.
- Abandoned utilities inside the proposed building should be removed in their entirety. Outside the building, the abandoned utilities should either be removed or plugged.
- Following removal of the topsoil the exposed surface should be thoroughly examined for the presence of unsuitable fill. Any unsuitable fill should be removed.
- Where cohesive soils are present prior to fill placement in fill areas, and after rough grade has been achieved in cut areas, the cohesive subgrade should be thoroughly proof-rolled. A heavy rubber-tired vehicle such a loaded dump truck should be used for proof-rolling.
- We expect that some areas of the site will not proof-roll satisfactorily. Any areas that exhibit
  excessive pumping and yielding during proof-rolling and compaction should be stabilized by
  aeration, drying, and compaction if weather conditions are favorable or removal and replacement
  with engineered fill (undercutting).
- Undercutting also can include the use of geotextiles and geogrids.
- Following proof-rolling and repair of unsuitable areas, the upper foot of the subgrade should be compacted to 90 percent of the maximum dry density as determined by the Modified Proctor Compaction Test, (ASTM D-1557) prior to placement of fill.

Page 4

We recommend materials meeting the following criteria be used for backfill or engineered fill to achieve design grades:

- The material should be non-organic and free of debris.
- The on-site soils may be used for engineered fill provided that they are approximately at the optimum moisture content. The silty clay soils may require aeration and drying before they can be properly compacted.
- Free-draining granular soils should be used for trench backfill and in confined spaces.
- <u>Common Fill:</u> The on-site soils may be used for common fill material. Common fill should be used in large areas that can be compacted by large earth moving equipment.
- <u>Granular Fill</u>: Granular fill should be used in confined areas such as trenches and backfill around foundations. Granular fill should meet the following gradation:

Sieve Size	Percent Passin					
6 inch	100					
3 inch	95-100					
Loss by Wash	0-15					

MDOT Class III meets the requirements for Granular Fill.

Alternately the following also can be used:

Sieve Size	Percent Passing
3 inch	100
1 inch	60-100
No. 30	0-30
Loss by Wash	0-10

MDOT Class II meets the requirements for Granular Fill. Some restriction apply to some applications

<u>Sand-Gravel Fill</u>: Sand-gravel fill should be used where free-draining material is required.
 Free-draining material is recommended for underfloor fill and retaining wall backfill. Sand and gravel fill should meet the following gradation:

Sieve Size	Percent Passing
2 inch	100
1/2 inch	45-85
No. 4	20-85
No. 30	5-30
Loss by Wash	0-5

MDOT Class I material meets the requirements for sand and gravel.

 <u>Crushed Stone Fill</u>: Crushed stone fill should be used for aggregate base and for any overexcavated foundations. Crushed stone should meet the following gradations:

Page 5

Sieve Size	Percent Passing
1-1/2 inch	100
1 inch	85-100
1/2 inch	50-75
No. 8	20-45
Loss by Wash	0-10

MDOT 21AA meets the gradation.

We recommend placing fill in accordance with the following:

The fill should be placed in uniform horizontal layers. The thickness of each layer should be in accordance with the following:

Compaction Method	Maximum Loose <u>Lift Thickness</u>
Hand-operated vibratory plate or light roller In confined areas	4 inches
Hand-operated vibratory roller weighing at Least 1,000 pounds	6 inches
Vibratory roller drum roller, minimum dynamic Force, 2,000 pounds	9 inches
Vibratory drum roller, minimum dynamic force, 30,000 pounds	12 inches
Sheep's-foot roller	8 inches

The vibrating roller thicknesses are for compacting granular soils. If vibrating drum rollers are used for cohesive soils, the recommended lift thickness is one-third the tabulated value. The lift thicknesses may be increased if field compaction testing demonstrate the specified compaction is achieved throughout the lift.

The fill should be compacted to achieve the specified maximum dry density as determined by the Modified Proctor compaction test (ASTM D-1557). The specified compaction for fill placed in various area should be as follows:

<u>Area</u>	Percent Compaction
Within building	95
Below foundations	95
Pavement base	95
Within one foot of pavement subgrade	95
Below one foot of pavement subgrade	92
Landscaped area	88

Page 6

- Trench backfill shall be compacted to above standards. The building is considered to extend 10
  feet beyond the foundations of the structure. Pavement is considered to extend 5 feet beyond the
  edge plus a one-on-one slope to the original grade.
- Frozen material should not be used as fill nor should fill be placed on a frozen subgrade.

The site conditioning procedures discussed above are expected to result in fairly stable subgrade conditions throughout most of the site. However, the on-site silty cohesive soils are sensitive to softening when wet or disturbed by construction traffic, depending on weather conditions and the type of equipment and construction procedures used, surface instability may develop in parts of the site. If this occurs, additional corrective procedures may be required as in-place stabilization or undercutting. Surface instability for pavement preparation commonly results from poor surface water management as the building is constructed and underground utilities installed. Also, sensitive subgrades are not protected from excessive construction traffic. Corrective procedures can be limited by careful attention to water management and construction traffic.

# **Foundation Recommendations**

Based on an evaluation of the subsurface data developed and successful completion of the earthwork procedures previously outlined, we recommend that the proposed building addition be supported on shallow spread and/or strip footings.

Exterior footings should be founded at a depth of at least 3.5 feet below the exposed finished grade for protection against frost penetration. Additionally exterior footings should be finished "neat", vertical side walls having equal width-throughout the footing depth and length, to aid in preventing frost heave. Interior footings not exposed to frost penetration during or after construction can be installed at shallower depths provided that suitable bearing soils are present.

We recommend a uniform net allowable soil bearing pressure of 3,000 pounds per square foot (psf) be used for the design of footings founded on native cohesive deposits below any existing fill or on engineered fill known to extend to the native granular soils. In addition, the bearing capacity can be increased by one third for transient loads, i.e. wind and earthquake.

In using a net allowable soil pressure, the weight of the footing, backfill over the footing, or floor slabs need not be included in the structural loads for sizing footings. However, strip footings should be at least 12 inches in width, and isolated spread footings should be at least 18 inches in their dimension, regardless of the resulting bearing pressure. We recommend that all strip footings be suitably reinforced to minimize the effects of differential settlements associated with local variations in subsoil conditions. All foundation excavations should be observed and tested to verify that adequate in-situ bearing pressures, compatible with the design value, are achieved.

# **Groundwater Conditions and Control**

Water level observations were made at each of the test borings during and following the completion of drilling operations. During drilling, groundwater was observed at 7 feet bgs in boring TB-3. At completion, groundwater was not observed in any of the borings. The results of the individual water level measurements are shown on the respective Logs of Test Borings. Fluctuations in groundwater levels should be anticipated due to seasonal variations, and following periods of prolonged precipitation or drought.

Page 7

Groundwater observations during drilling operations in predominantly cohesive soils are not necessarily indicative of the static groundwater level. This is due to the low permeability of such soils and the tendency of drilling operations to seal off the natural paths of groundwater flow. Considering the predominantly cohesive character of the subsoils and groundwater levels observed in one boring at 7 feet below the ground surface, no significant groundwater accumulations are anticipated in construction excavations. We expect that accumulations of groundwater or surface runoff water in such excavations should be controllable with normal pumping from properly constructed sumps.

# Floor Slabs

The subgrade resulting from the satisfactory completion of site preparation operations can be used for the support of concrete floor slabs. Based on the anticipated finish floor grades, the slab may be supported by engineered fill and native soils. A modulus of subgrade reaction, k, of 125 pounds per cubic inch may be used for design. We recommend that all concrete floor slabs be suitably reinforced and separated from the foundation system to allow for independent movement. If floor settlement is to be virtually eliminated, the existing fill deposits would have to be removed in their entirety and replaced with engineered backfill.

We recommend a porous granular blanket consisting of MDOT Class I sand at least 4 inches thick under the floor slab. We also recommend a vapor barrier for floor covering materials affected by moisture from the subgrade.

# **Pavement Considerations**

The subgrade resulting from the satisfactory completion of site preparation operations can also be used for the support of pavements. The cohesive subgrade soils consist of low plasticity silty/sandy clays which can be classified as CL or CL-ML, according to the Unified Soil Classification System (USCS). Soils of these types tend to have poor drainage characteristics, are frost susceptible, and are generally unstable under repeated loading. Based on the results of our investigation and the anticipated frost and moisture conditions, these soils may be assigned an estimated California Bearing Ratio (CBR) value of 4 for the design of pavements.

Criteria for an engineered design has not been furnished. In addition to traffic loads, criteria also includes the design life, reliability and defining the condition at the end of the design period. We anticipate that both a light and heavy duty conventional pavement of asphalt with aggregate base will be used. In addition, a concrete pavement may be used for parking and truck traffic areas.

Typical pavements for similar projects have included:

# **Conventional Asphalt on Aggregate Base**

Parking:

3 1/2 inches of Asphalt Surface Course

8 inches of Aggregate Base

Heavy Duty Drive Areas:

4 inches of Asphalt Surface Course

12 inches of Aggregate Base

We recommend that the asphalt meet Michigan Department of Transportation (MDOT) specifications for MDOT 13A or a commercial mix similar to the 1990 MDOT 1100. The aggregate base should meet criteria for MDOT 21AA.

Erhard BMW
Mr. Kenneth Widerstedt
BMW of Novi, Novi, Oakland County, Michigan

June 23, 2017 PEA Project No.: 2017-176

Page 8

For pavements, we recommend that "stub" or "finger" drains be provided around catch basins and other low parts of the site to minimize the accumulation of water above and within the frost susceptible subgrade soils. We also recommend edge drains along parking perimeters where upgrade surface water can flow onto or under pavement. Consideration should also be given to providing subdrains around the perimeter of any proposed landscaped islands within the parking area since they can become a source of water infiltration into the pavement. Such subdrains could be connected to nearby catch basins. The pavement should be properly sloped to promote effective surface drainage and prevent water ponding.

The pavement recommendations provided in this report are intended to provide serviceable pavement for about 20 years. However, all pavements require regular maintenance and occasional repairs. The need for such maintenance is not necessarily indicative of premature pavement failure. If such activities are not performed in a timely manner, the service life of the pavement can be substantially reduced. Most pavements require preservation treatments about 15 years into their life from environmental causes.

In truck loading zones, truck trailer parking areas, and trash dumpster pick-up areas within the asphalt pavement areas, heavy concentrated wheel loads will be subjected upon the pavement. This type of activity frequently results in rutting of asphalt pavement and ultimately can lead to premature failure. Therefore, we recommend that suitably reinforced concrete pavement at least 8 inches in thickness be given consideration in these areas.

# Field Monitoring

Soil conditions at the site could vary from those generalized on the basis of test borings made at specific locations. We recommend that a qualified geotechnical engineer be retained to provide soil engineering services during the site preparation, excavation, and foundation phases of the proposed project. This is to observe compliance with the design concepts, specifications, and recommendations. Also, this allows modifications to the made in the event that subsurface conditions differ from those anticipated prior to the start of construction.

# **General Comments**

We have formulated the evaluations and recommendations presented in this report, relative to site preparation and building foundations, on the basis of data provided to us relating to the location of the proposed buildings. Any significant change in this data should be brought to our attention for review and evaluation with respect to the prevailing subsurface conditions.

The scope of the present investigation was limited to evaluation of subsurface conditions for the support of building foundations, and other related aspects of development. No chemical, environmental, or hydrogeological testing or analysis was included in the scope of this investigation.

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If you have any questions regarding this report, or if we may be of further assistance to you in any respect, please feel free to contact us. We appreciate the opportunity to have been of service to you.

Sincerely,

PEA, INC.

Jessica Nibert, EIT Staff Engineer

Attachments:

Log of Test Boring

Soil Terminology Location Plan Jack Sattelmeier, PE Senior Project Manager



PROJECT NAME: LOCATION:

Proposed BMW Dealership

**PEA Job No.:** 2017-176

Grand River and Meadowbrook Roads

Reviewed by: DJS

SUBSURFACE PROFILE	SOIL	SOIL SAMPLE DATA								
GROUND SURFACE ELEVATION 888.4	DEPTH FEET	SAMPLE TYPE	BLOWS /6"	SPT "N"	Moisture Content (%)	Dry Density (pcf)	Unconf. Comp. Str. (psf)	Failure Strain (%)		
888 TOPSOIL: Dark Brown CL							777.2			
	0.5	1-S	3 2 3	5	19.3					
Medium to Stiff Brown SILTY C with Silty Sand and Trace			2 3							
884 —	-	2-S	6	9	11.6		*3000			
	8	3-s	6 14 23	37	13.9		*8000			
Hard Brown SILTY CLAY, Tra and Gravel, Occasional S	ice to Little Sand	4-s	11 19 26	45	8.4		*8000			
	12									
876 —			7							
Hard Gray SILTY CLAY, Trace	to Little Sand and	5-s	8 13	21			*9000			
872 — Gravel	16									
	20	6-s	7 9 13	22			*9000			
End Of Boring	_									
	<u> </u>									
864 —	24									
Aug	4 In. Dia. Hollow-stem er ohammer	Water	Level (	) Obse	rvation:	Dry Ai	l Completio	n		
Inspector: JMS Plugging procedure:		Notes:	* Per	ietro	meter					
Contractor: Stock Drilling Company										
EA, Inc.							Figur	n 1		



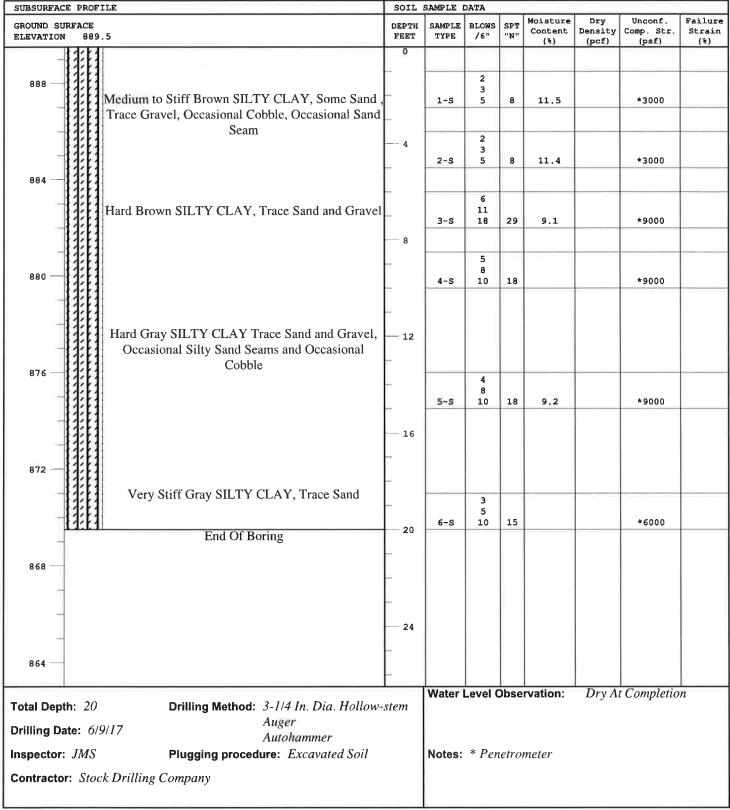
PROJECT NAME: LOCATION:

Proposed BMW Dealership

**PEA Job No.**: 2017-176

Grand River and Meadowbrook Roads

Reviewed by: DJS





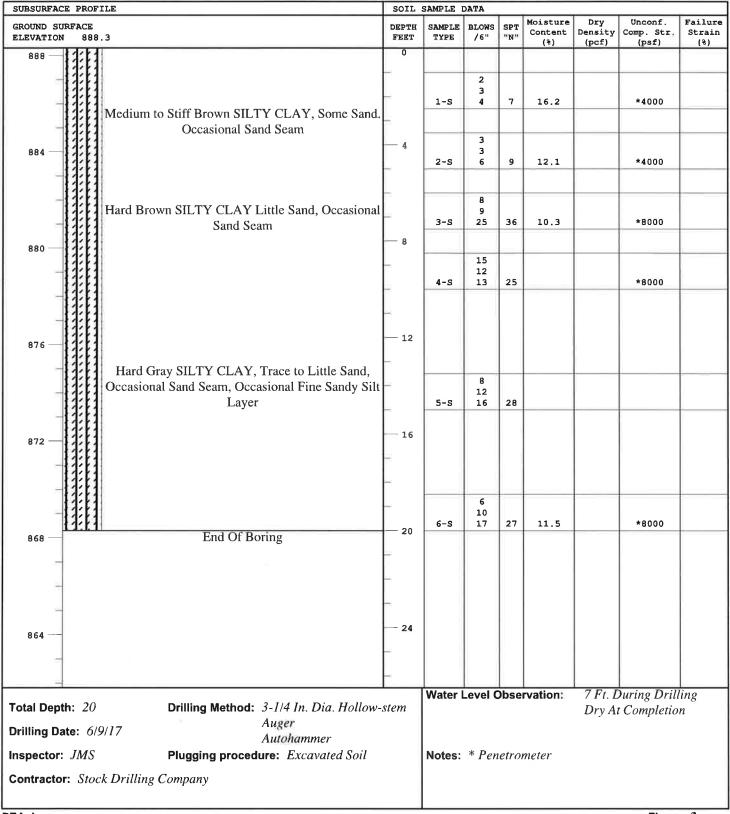
PROJECT NAME: LOCATION:

Proposed BMW Dealership

PEA Job No.: 2017-176

Grand River and Meadowbrook Roads

Reviewed by: DJS





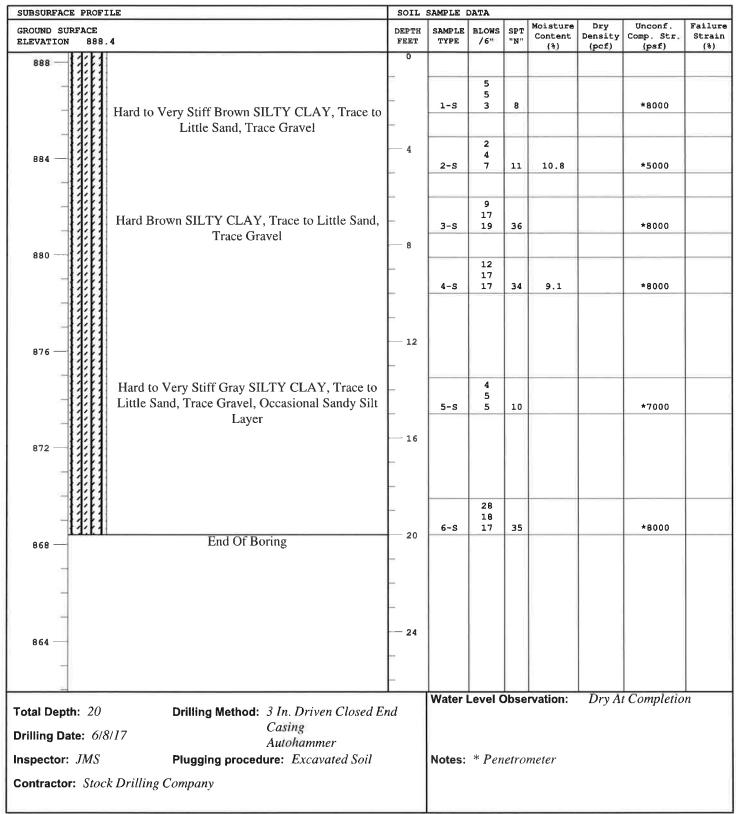
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Proposed BMW Dealership

PEA Job No.: 2017-176

Grand River and Meadowbrook Roads

Reviewed by: DJS





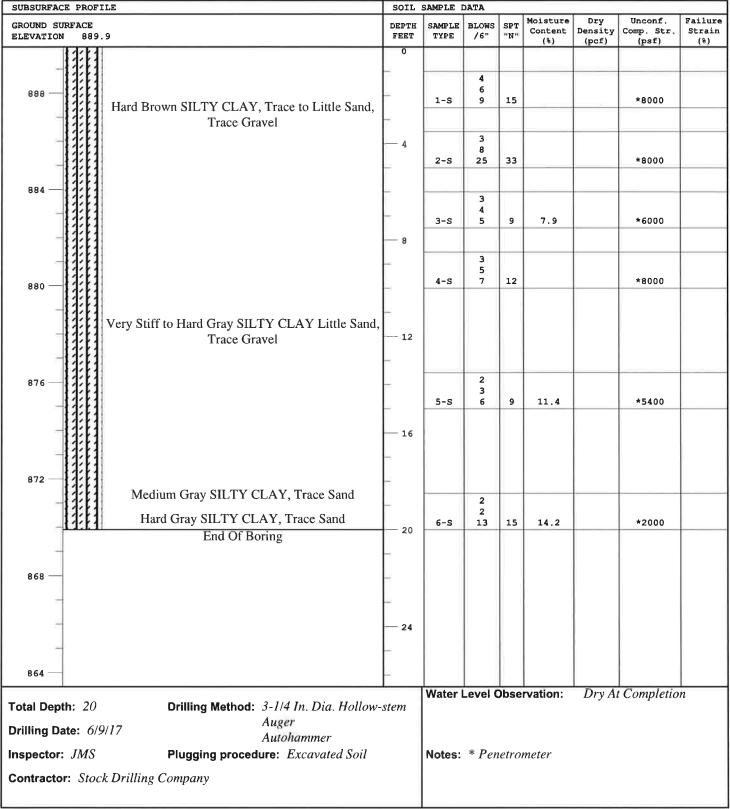
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Proposed BMW Dealership

**PEA Job No.**: 2017-176

Grand River and Meadowbrook Roads

Reviewed by: DJS





PROJECT NAME: LOCATION:

Proposed BMW Dealership

Grand River and Meadowbrook Roads

Novi, Michigan

**PEA Job No.**: 2017-176

Reviewed by: DJS

DESURFACE PROFILE	SOIL	SAMPLE	DATA					
ROUND SURFACE LEVATION 889.0	DEPTH FEET	SAMPLE TYPE	BLOWS /6"	SPT "N"	Moisture Content (%)	Dry Density (pcf)	Unconf. Comp. Str. (psf)	Failur Strain (%)
Hard Mottled Gray Brown SILTY CLAY, Trace t	0		15					
Little Sand and Gravel		1-s	9	13			*8000	
Stiff Brown SILTY CLAY, Little Sand and Grave	el		3					
884 —		2-S	5 9	14	10.1	,	*4000	
			1 6					
	- 8	3-S	7	13			*5000	
880 —	-	4-s	2 5 6	11	8.9		*6000	
					0.0		3333	
Very Stiff to Hard Gray SILTY CLAY, with Little Sand and Gravel Occasional Sand Seam, Occasion								
876 — Cobble			3					
		5-S	7 10	17			*8000	
872 —	16							
	_	6-s	3 5 20/3				*6000	
End Of Boring	20							
	_							
864	24							
	<u> </u>	Water	l aval (	2600	rvation:	Day 4	t Completio	
otal Depth: 19.7 Drilling Method: 3 In Driven Casing to Ft. Hollow-stem Aug Autohammer			FRAGI (	Juse	i valiVII.	DI y A	сотрісио	71
spector: JMS Plugging procedure: Excavated Soil		Notes:	* Per	ietro	meter			
ontractor: Stock Drilling Company								



PROJECT NAME: LOCATION:

Proposed BMW Dealership

**PEA Job No.**: 2017-176

Grand River and Meadowbrook Roads

Reviewed by: DJS

SUBSURFACE PROFILE		SOIL SAMPLE DATA								
GROUND SURFACE ELEVATION 891.8	DEPTH FEET	SAMPLE TYPE	BLOWS /6"	SPT "N"	Moisture Content (%)	Dry Density (pcf)	Unconf. Comp. Str. (psf)	Failu Strai (%)		
Hard to Very Stiff Brown SILTY CLAY, Trace Sand and Gravel, Occasional Sand Seam	0	1-S	3 6 9	15			*9000			
888	4	2-S	3 7 10	17	9.8		*6000			
884 —		3-S	1 2 3	5	9.9		*1400			
Medium To Stiff Gray SILTY CLAY, Trace Sand and Gravel	-	4-S	2 3 7	10	9.6		*3000			
880 —	— — 12									
Very Stiff Gray SILTY CLAY, Little Sand, Trace	— 16	5-s	5 6 9	15	9.9		*7000			
Gravel	10									
End Of Boring	— — 20	6-S	4 6 7	13			*6000			
868 —										
	— 24 —									
otal Depth: 20 Drilling Method: 3-1/4 In. Dia. Hollow-s Auger Autohammer	stem	Water I	Level (	Dbse	rvation:	Dry A	t Completio	n		
nspector: JMS Plugging procedure: Excavated Soil		Notes:	d D							



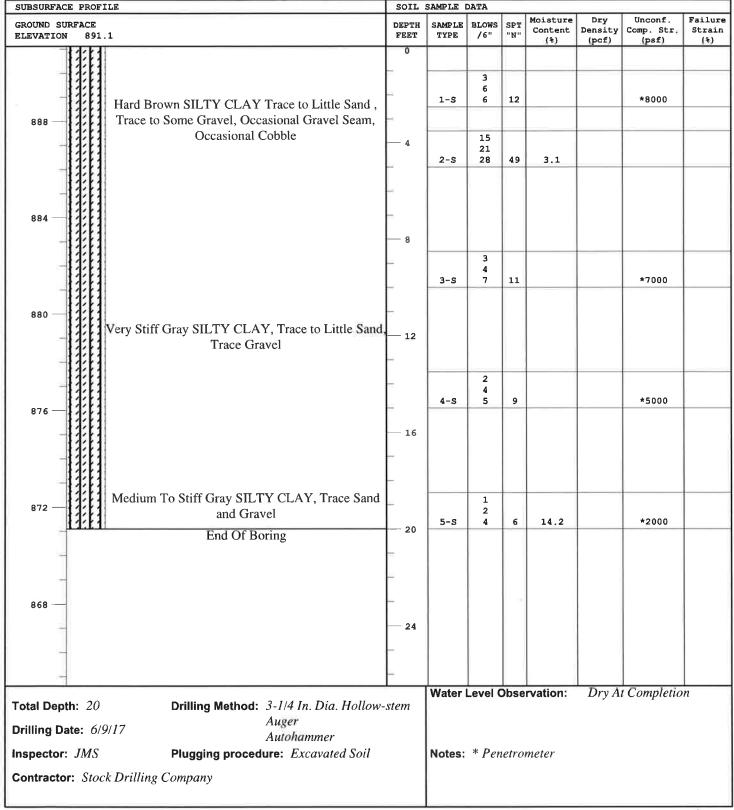
PROJECT NAME: LOCATION:

Proposed BMW Dealership

PEA Job No.: 2017-176

Grand River and Meadowbrook Roads

Reviewed by: DJS





PROJECT NAME:

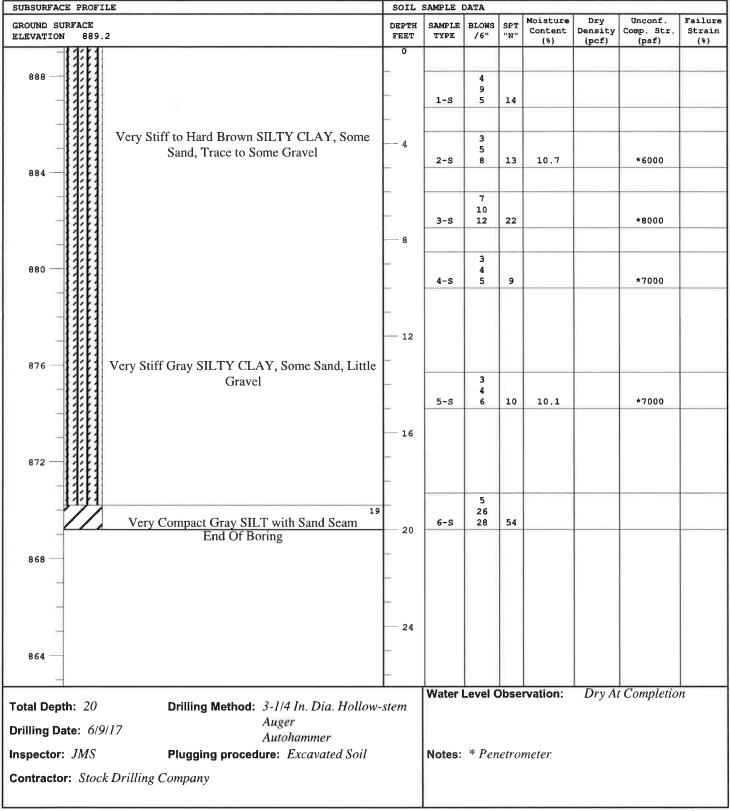
Proposed BMW Dealership

**PEA Job No.**: 2017-176

LOCATION:

Grand River and Meadowbrook Roads

Reviewed by: DJS



# **SOIL TERMINOLOGY**

Unless otherwise noted, all terms utilized herein refer to the Standard Definitions presented in ASTM D-653.

#### **PARTICLE SIZES**

# CLASSIFICATION The major soil constituent is the principal noun (i.e., clay, silt, sand,

Boulders - Greater than 12 inches (305 mm)

Cobbles - 3 inches (76.2 mm) to 12 inches (305 mm)

Gravel:

< Coarse - 3/4 inches (9.05 mm) to 3 inches (76.2 mm) < Fine - No. 4 (4.75 mm) to 3/4 inches (19.05 mm)

Sand:

< Coarse - No. 10 (2.00 mm) to No. 4 (4.74 mm) < Medium - No. 40 (0.425 mm) to No. 10 (2.00 mm) < Fine - No. 200 (0.074 mm) to No. 40 (0.425 mm)

Silt - 0.005 mm to 0.074 mm

Clay - Less than 0.005 mm

# gravel). The minor constituents are reported as follows: Modifiers to Main Constituent (Percent by Weight)

Trace - 01 to 10% Little - 10 to 20% Some - 20 to 30% Adjective - Over 30%

# **COHESIVE SOILS**

If clay content is sufficient so that clay dominates soil properties, clay becomes the principal noun with the other major soil constituent as modifier (i.e., silty clay). Other minor soil constituents may be included in accordance with the classification breakdown for cohesionless soils (i.e., silty clay, trace of sand, little gravel).

Unconfined Compressive					
Consistency	Strength (PSF)	Approximate Range of N			
Very Soft	Below 500	0 to 2			
Soft	500 to 1,000	3 to 4			
Medium	1,000 to 2,000	5 to 8			
Stiff	2,000 to 4,000	9 to 15			
Very Stiff	4,000 to 8,000	16 to 30			
Hard	8,000 to 16,000	31 to 50 Over 50			
Very Hard	Over 16,000	Over 50			

Consistency of cohesive soils is based upon as elevation of the observed resistance to deformation under load and not upon the Standard Penetration Resistance (N).

# **COHESIONLESS SOILS**

Density Classification	Relative Density %	Approximate Range of N
Very Loose	0 to 15	0 to 4
Loose	16 to 35	5 to 10
Medium Compact	36 to 65	11 to 30
Compact	66 to 85	31 to 50
Very Compact	86 to 100	Over 50

Relative Density of Cohesionless Soils is based upon the evaluation of the Standard Penetration Resistance (N), modified as required for depth effects, sampling effects, etc.

## SAMPLE DESIGNATIONS

C - Core

D = Directly from Auger Flight or Miscellaneous Sample

S - Split Spoon Sample - ASTM D-1586

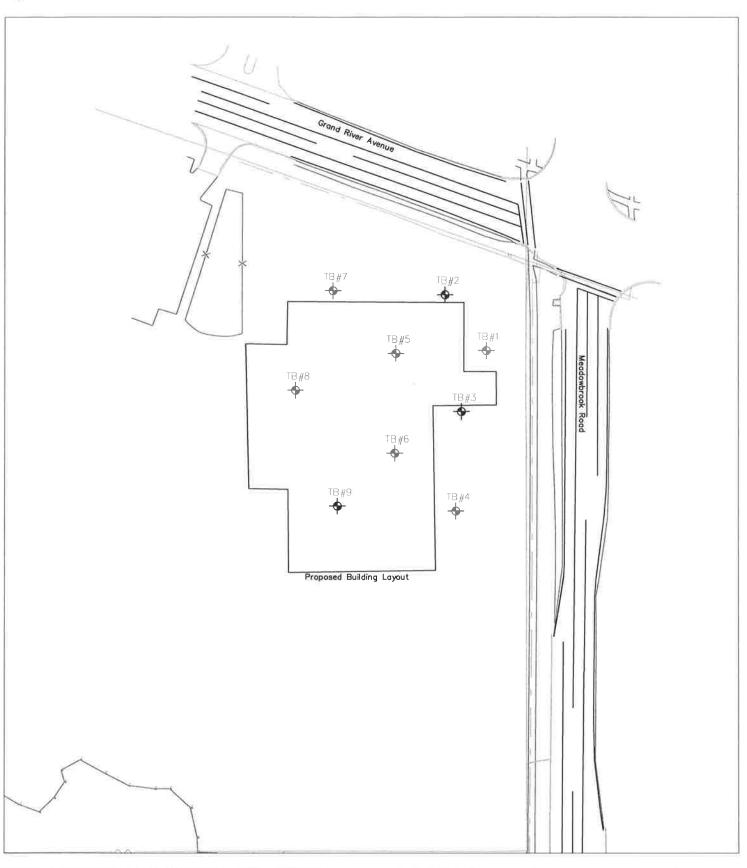
LS - S - Sample with liner insert

ST Shelby Tube Sample - 3 inch diameter unless otherwise noted

PS = Piston Sample - 3 inch diameter unless otherwise noted

RC Rock Core - NX core unless otherwise noted

STANDARD PENETRATION TEST (ASTM D-1586) - a 2.0-inch outside diameter, 1-3/8-inch inside diameter split barrel sampler is driven into undisturbed soil by means of a 140-pound weight falling freely.

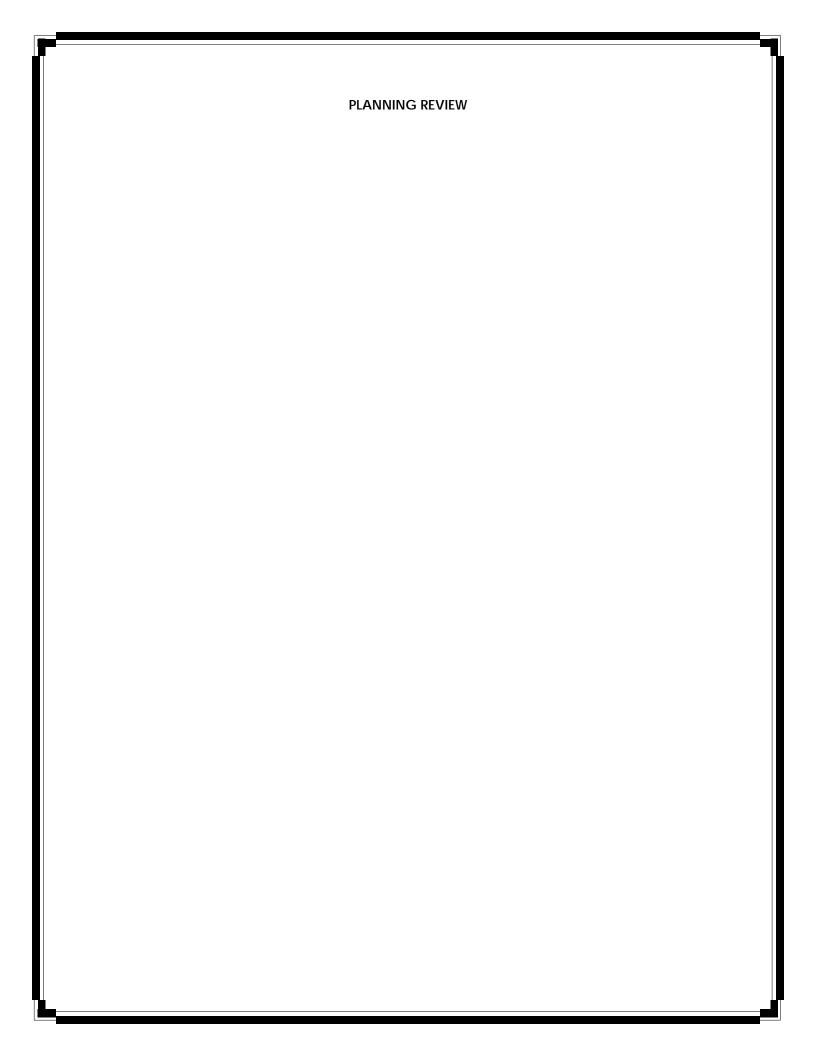


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**BORING LOCATION MAP** 





# PLAN REVIEW CENTER REPORT

September 07, 2018

# Planning Review JAGUAR LAND ROVER

JSP 17-65

# **PETITIONER**

Erhard Motor Sales, Inc

# **REVIEW TYPE**

SDO Concept Plan

# PROPERTY CHARACTERISTICS

TROLENT CHARACTERISTICS		
Section	23	
Site Location	southwest corner of Grand River Avenue and Meadowbrook Road 50-22-23-251-018 (5.62 acres) and 22-23-251-019(3.86 acres)	
Site School District	Novi Community School District	
Site Zoning	Gateway East (GE)	
Adjoining Zoning	North	GE with a consent judgment
	East	OS-1 Office Service R-4: One-family residential
	West	NCC: Non-Commercial Center GE with a SDO agreement
	South	RM-2: High-Density Multiple-Family
Current Site Use	Vacant	
Adjoining Uses	North	Gateway Village
	East	Vacant
	West	O'Brien-Sullivan Funeral Home
	South	Meadowbrook Commons: Novi Senior Center
Site Size	9.48 Acres	
Plan Date	August 08, 2018	

# **RECOMMENDATION**

Planning does not recommend approval of the SDO Concept Plan at this time, due to missing information and deviations that have not been fully addressed by the applicant for consideration by the Planning Commission. The public hearing has been set for the September 26 meeting, and the applicant is asked to respond to the comments in this, and the other review letters prior to that meeting.

The subject property is located at the "entry" area of the Gateway East District, since it is located on one of the four properties at the intersection of Grand River and Meadowbrook. Following a recommendation of the Planning Commission, Council may approve an SDO project which consists of a non-residential use permitted elsewhere in the ordinance, but not otherwise permitted in the GE district for these properties, subject to conditions listed in Section 3.12.2.A.ii

# **PROJECT SUMMARY**

The subject property is comprised of two parcels totaling 9.48 acres. It is located on the southwest corner of Grand River Avenue and Meadowbrook Road (Section 23). The applicant is proposing to build a 58,663 square feet car sales facility for Jaguar Land Rover. The proposed facility includes sales and service area. The concept plan proposes 138 parking spaces for employee and visitors and 287 parking spaces for storing cars for sale. A storm water pond is proposed on the south side that also acts a buffer

from the residential use on south side of Cherry Hill Road. It has access from both Meadowbrook Road and Grand River Avenue.

# **ORDINANCE REQUIREMENTS**

This project was reviewed for conformance with the Zoning Ordinance with respect to Article 3 (Zoning Districts), Article 4 (Use Standards), Article 5 (Site Standards), and any other applicable provisions of the Zoning Ordinance. Please see the attached chart for information pertaining to ordinance requirements. Items in **bold** below must be addressed and incorporated as part of the response letter prior to Planning Commission meeting:

- 1. <u>SDO Eligibility:</u> The applicant should address staff comments provided on page 4 with regards to SDO eligibility.
- 2. <u>Site Plan Approval Process: The concept plan will be reviewed by the Planning Commission and recommended for consideration to the City Council. Once reviewed by Planning Commission, the concept plan will be presented to City Council for review. SDO Agreement will need to be approved by the City Council. After the SDO agreement approval, the applicant would then require to apply for Preliminary Site Plan, Woodland Permit, Wetland Permit and Storm water Management Plan approval by City Council under SDO Option.</u>
- 3. <u>Photometric Plan:</u> Please refer to Planning Review Chart for additional comments that need to be addressed prior to approval of Photometric plan.
- 4. <u>Plan Review Chart:</u> Additional comments have been provided in Plan review chart that can be addressed at the time of site plan approval, unless any deviations are required.
- 5. Exterior Signage: Exterior Signage is not regulated by the Planning Division or Planning Commission. Sign permit applications that relate to construction of a new building or an addition to an existing building may submitted, reviewed, and approved as part of a site plan application. In that case, the proposed signs shall be shown on the Preliminary Site Plan. Alternatively, an applicant may choose to submit a sign application to the Building Official for administrative review after Site plan approval. Following Preliminary Site Plan approval, any application to amend a sign permit or for a new or additional sign shall be submitted to the Building Official. Please contact the Ordinance Division 248.735.5678 for information regarding sign permits.
- 6. <u>Conservation Easements:</u> Draft conservation easements are required along with Final Site Plan submittal.

# **ORDINANCE DEVIATIONS**

Per Section 3.12.6, consistent with the Special Development Option concept, and toward encouraging flexibility and creativity in development, departures from compliance with the standards provided for an SDO project, may be granted in the discretion of the City Council as part of the approval of an SDO project in a GE District. Such departures may be authorized on the condition that there are recognized and specific features or planning mechanisms deemed adequate by the City Council designed into the project for the purpose of achieving the objectives intended to be accomplished with respect to each of the regulations from which a departure is sought. The following are deviations from the Zoning Ordinance and other applicable ordinances shown on the concept plan and to be included in the draft SDO Agreement:

# **Planning Deviations:**

a. For not meeting the minimum requirements for usable open space (25% of gross area of the site required); The applicant is asked to meet the minimum ordinance standards, and provide the updated calculations with an exhibit that included spaces designed as useable space. Additional revisions may be required for the proposed pedestrian plaza at the corner of Meadowbrook Road and Grand River Avenue.

- b. Per Section 3.11.8, street corner building should have greater massing and height. Proposed building refers to two stories, but the second story only includes a small mezzanine. It is not conforming to this requirement. The applicant may want to contact the City's Façade Consultant to determine alternatives that will meet the ordinance standards.
- c. Per section 5.16, When 4 or more spaces are required for a building with multiple entrances, the spaces shall be provided in multiple locations. The applicant is proposing all six spaces in one location. The applicant can consider relocating couple of locations at the pedestrian plaza.
- d. Per Section 3.11.8, sidewalks are required for all developments which abut any street and shall comply with the City of Novi Design and Construction Standards. The concept plan is not proposing a sidewalk along Cherry Hill Road. The applicant is asked to demonstrate whether a sidewalk and/or boardwalk can be provided with minimal impact to the existing natural features, or consider an alternative to the strict requirements of the City Code.

# **Façade Deviations:**

- e. Underage of brick (30% minimum required, 25% on north façade and 28% on east façade proposed);
- f. Overage of flat metal panels (50% maximum allowed, 58% on north façade and 56% on east façade proposed);
- g. Overage of horizontal rib metal panels for roof top screening (0% allowed,17% on north, 16% on east, 12% on south and 18% on west proposed);

Section 3.11.8 of the Ordinance states that buildings located at the corner of two streets within the Gateway East District "... shall contain two stories or incorporate architectural features that provide additional massing." The proposed building exhibits no additional massing near the intersection of Grand River and Meadowbrook Rd., and is generally inconsistent with this requirement.

The applicant should consider revising the design to add architectural features, specifically to the north east corner of the building that will meet the intent of this Section.

Note: The Façade Ordinance prohibits the use of intense colors and / or neon lighting. This applies to interior surfaces of the showroom that may be visible through the vision glass areas. We mention this in the off chance that such materials or lighting may be proposed but not indicated on the drawings.

## **Traffic Deviations:**

- h. Traffic deviation to waive the requirement for required Traffic Impact Study or defer it to the time of Preliminary Site Plan review, as the site falls under the study boundaries for the ongoing Comprehensive Traffic study by the City;
- i. Traffic deviation for variance from Design and Construction Standards Section 11-216(d) for not meeting the minimum distance required for same-side commercial driveways; please provide an exhibit indicating the required distance and proposed to identify the deviation.

# **Landscape Deviations:**

- j. Landscape deviation from Section. 5.5.3.E.i.c for lack of street trees along Grand River Road frontage due to lack of space (8 trees)
- k. Landscape deviation from Section. 5.5.3.E.i.c for lack of street trees along Cherry Hill Road frontage due to lack of space (11trees)
- I. Landscape deviation from Section 5.5.3.B.ii and iii for not providing greenbelt berm or plantings in area of wetland in order to preserve wetland
- m. Landscape deviation from Section 5.5.3.B.ii and iii for not providing greenbelt berm or plantings between Cherry Hill and the parking lot area not behind the wetland. **This is currently not supported by staff**.

# PLANNING COMMISSION CONSIDERATION

In making its recommendation to the City Council, the Planning Commission shall determine:

- 1) Consistency with the Master Plan;
- 2) Innovative planning and design excellence;

- 3) Relationship to adjacent land uses;
- 4) Compliance with this Ordinance;
- 5) Benefits to the community such as publicly dedicated parks and open areas, and public facilities:
- 6) Pedestrian and/or vehicular safety provisions;
- 7) Aesthetic beauty in terms of design, exterior materials and landscaping, including internal compatibility within the development as well as its relationship to surrounding properties;
- 8) Provisions for the users of the project; and
- 9) An evaluation of the standards in subsections 3.12.3 through 3.12.5.

The Planning Commission shall forward its findings to the City Council for consideration no later than the next scheduled regular meeting of the Planning Commission following the public hearing.

#### USES PERMITTED SUBJECT TO APPROVAL OF A SPECIAL DEVELOPMENT OPTION

Per section 3.12, for the limited purposes of the four properties situated at the "entry" of the area for which GE district permission is provided herein, i.e., the four properties at the intersection of Grand River Avenue and Meadowbrook Road (having frontage on both roads), the City Council following recommendation of the Planning Commission, shall be authorized to approve an SDO project which includes or consists of a non-residential use permitted elsewhere in this Zoning Ordinance but not otherwise permitted in the GE district, on the condition that such use meets all of the following criteria, as determined by the City Council:

- a. The proposed use exemplifies the intent of the GE district as stated in Section 3.1.16.A, and the intent of the SDO as stated in Section 3.1.16. (see below)
- b. The proposed use incorporates as a predominant physical component of the development that provides a unique entry feature along Grand River Avenue for the GE district, characterized by a distinct, high profile appearance.
- c. The proposed use is compatible with, and will promote, the uses permitted with the GE district and SDO.
- d. The proposed use will not create an inconsistency with the City's Master Plan for Land Use in terms of the general activities on the site and the impacts upon the surrounding area.
- e. The proposed use is designed in a manner that will result in traffic and pedestrian safely, consistent with the adjoining pedestrian and vehicular thoroughfares.
- f. The proposed use is designed with exceptional aesthetic quality, including building design, building materials and landscaping design, not likely to be achieved except based upon this authorization. Developments which include a single use, a mixed use building and/or a mixed use development may be proposed and approved as an SDO project.

#### Section 3.1.16.1. Intent of GE district

It is the intent of this Section to authorize the use of special development regulations in GE districts for the purpose of:

- A. Permitting quality residential development and facilitating mixed use developments, including multiple-family residential, office, and limited size commercial;
- B. Encouraging a mixture of uses in accordance with character and adaptability of the land;
- C. Conserving natural resources and natural features and energy; encouraging innovation in land use planning; providing enhanced housing, employment, shopping, traffic circulation and open space opportunities for the people of this City;
- D. Bringing about a greater compatibility of design and use between neighboring properties and the downtown district of Novi; and
- E. Making provision for unique "entry" developments at the intersection of Grand River and Meadowbrook, as specified in subsection 3.12.2.A.ii.

#### SDO ELIGIBILITY (SEC. 3.12.3)

The Planning Commission and City Council were asked to consider the following when evaluating the proposed SDO concept plan. Staff comments are in bold.

i. The project will result in a recognizable and substantial benefit to the ultimate users of the

- project and to the community, where such benefit would otherwise be unfeasible or unlikely to be achieved by a traditional development. The applicant has proposed a pedestrian plaza for bicyclers or pedestrians to stop and rest. Additional information such as bike racks and seating etc. are not provided at this time.
- ii. In relation to a development otherwise permissible as a Principal Permitted Use under Section 3.1.16.B, the proposed type and density of development shall not result in an unreasonable increase in the use of public services, facilities and utilities, and shall not place an unreasonable burden upon the subject and/or surrounding land and/or property owners and occupants and/or the natural environment. A community impact statement or a narrative that would address this item is not included in the submittal. A noise impact statement was provided which indicates the noise levels for all uses will be kept under Ordinance minimum.
- iii. Based upon proposed uses, layout and design of the overall project, the proposed building facade treatment, the proposed landscaping treatment and the proposed signage, the Special Development Option project will result in a material enhancement to the area of the City in which it is situated. Proposed building is not consistent with massing requirement for corner buildings. See the façade and landscape review letters for additional information.
- iv. The proposed development shall not have a materially adverse impact upon the Master Plan for Land Use of the City, and shall be consistent with the intent and spirit of this Section. The plan is consistent with the Master Plan recommendations for the subject property.
- v. In relation to a development otherwise permissible as a Principal Permitted Use under Section 3.1.16.B, the proposed development shall not result in an unreasonable negative economic impact upon surrounding properties. The proposed car dealership is similar to the existing car dealership located in the north eastern corner of Grand River Avenue and Meadowbrook Road. The plan proposes a storm water pond on the south side to act as buffer to existing residential uses.
- vi. The proposed development shall contain at least as much useable open space as would be required in this Ordinance in relation to the most dominant use in the development. Substantially all of the total open space area must be designed as useable space. Additional information is required to verify conformance.
- vii. Each particular proposed use in the development, as well as the size and location of such use, shall result in and contribute to a reasonable and mutually supportive mix of uses on the site, and a compatibility of uses in harmony with the surrounding area and other downtown areas of the City. A single use is proposed.
- viii. The proposed development shall be under single ownership and/or control such that there is a single person or entity having responsibility for completing the project in conformity with this Ordinance. A single entity currently owns the site.

In addition to the provisions noted above, the Planning Commission and City Council should also consider the Special Land Use conditions noted in <u>Section 6.1.2.C</u> of the Zoning Ordinance:

- Whether, relative to other feasible uses of the site, the proposed use will cause any detrimental impact on existing thoroughfares in terms of overall volumes, capacity, safety, vehicular turning patterns, intersections, view obstructions, line of sight, ingress and egress, acceleration/deceleration lanes, off-street parking, off-street loading/unloading, travel times and thoroughfare level of service.
- Whether, relative to other feasible uses of the site, the proposed use will cause any detrimental impact on the capabilities of public services and facilities, including water service, sanitary sewer service, storm water disposal and police and fire protection to service existing and planned uses in the area.
- Whether, relative to other feasible uses of the site, the proposed use is compatible with the natural features and characteristics of the land, including existing woodlands, wetlands, watercourses and wildlife habitats.
- Whether, relative to other feasible uses of the site, the proposed use is compatible with adjacent uses of land in terms of location, size, character, and impact on adjacent property or the surrounding neighborhood.

- Whether, relative to other feasible uses of the site, the proposed use is consistent with the goals, objectives and recommendations of the City's Master Plan for Land Use.
- Whether, relative to other feasible uses of the site, the proposed use will promote the use of land in a socially and economically desirable manner.
- Whether, relative to other feasible uses of the site, the proposed use is (a) listed among the
  provision of uses requiring special land use review as set forth in the various zoning districts of this
  Ordinance, and (b) is in harmony with the purposes and conforms to the applicable site design
  regulations of the zoning district in which it is located.

#### 7. Other Reviews

- a. <u>Engineering Review (09-05-18):</u> Additional comments to be addressed with Site Plan. Engineering is currently recommending approval.
- b. <u>Landscape Review (08-29-18):</u> Additional comments to be addressed with Preliminary Site Plan. Landscape recommends approval.
- c. <u>Wetlands Review (08-29-18):</u> A City of Novi Non-minor Wetland Permit and Buffer Authorization are required for the proposed impacts to wetlands and regulated wetland setbacks at the time of Preliminary Site Plan. Wetlands recommend approval.
- d. <u>Woodlands Review (08-29-18):</u> A City of Novi Woodland permit is required for the proposed impacts to regulated woodlands at the time of Preliminary Site Plan. Woodlands recommend approval.
- e. <u>Traffic Review (08-30-18):</u> Additional comments to be addressed with Preliminary Site Plan. Traffic recommends approval.
- f. <u>Facade Review (08-29-18)</u>: Façade is recommending approval of Section 9 waiver. Please bring the samples to the Planning Commission meeting.
- g. <u>Fire Review (08-16-18):</u> Additional comments to be addressed with Preliminary Site Plan.. Fire recommends conditional approval.

#### **NEXT STEP: PLANNING COMMISSION MEETING**

All reviews are recommending approval except Planning. The site plan is scheduled for a Public hearing on September 26<sup>th</sup> meeting. Please provide the following <u>no later than 10 am on September 19, 2018.</u>

- Original SDO Concept Plan submittal in PDF format dated August 08, 2018 (maximum of 10MB).
   NO CHANGES MADE.
- 2. A response letter addressing ALL the comments from ALL the review letters and **a request for** waivers as you see fit.
- 3. A color rendering of the Site Plan, if any.
- 4. A sample board of building materials as requested by our Façade Consultant.

A revised concept plan will be required after the Planning Commission public hearing to address the concerns noted in this review letter.

#### SITE ADDRESSING

A new address is required for this project. The applicant should contact the Building Division for an address prior to applying for a building permit. Building permit applications cannot be processed without a correct address. The address application can be found by clicking on this <u>link</u>. Please contact the Ordinance Division 248.735.5678 in the Community Development Department with any specific questions regarding addressing of sites.

#### STREET AND PROJECT NAME

This project does not require approval from the Street and Project Naming Committee.

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# PLANNING REVIEW CHART: GE Gateway East

Review Date: September 07, 2018
Review Type: SDO Concept Plan
Project Name: Jaguar Land Rover
Plan Date: August 08, 2018

**Prepared by:** Sri Ravali Komaragiri, Planner

Contact: E-mail: skomaragiri@cityofnovi.org Phone: 248.735.5607

Items in **Bold** need to be addressed by the applicant with next submittal

Item	Required Code	Proposed	Meets Code	Comments		
Zoning and Use Requ	Zoning and Use Requirements					
Master Plan (Adopted July 26, 2017)	Town Center Gateway (Gateway East)	Gateway East (SDO)	Yes			
Density (Adopted July 26, 2017)	13.6 DUA	Not applicable	NA			
Area Study	Grand River Corridor Study as part of the 2017 Master plan update		NA			
<b>Zoning</b> (Eff. Dec. 25, 2013)	Gateway East (SDO)	GE: Gateway East with SDO	Yes			
Uses Permitted (Sec 3.1.16.B & C)	Sec 3.1.16.B Principal Uses Permitted. Sec 3.1.16.C Special Land Uses 3.12 Special Development Option (SDO) for the GE district	Jaguar Land Rover Car dealership (See note below)	Yes			
Phasing	Indicate how many phases Show phase lines on the plans Tentative timeline for completion of all phases	Phasing is not proposed	NA			
Note: The subject prosince it is located on Meadowbrook. Follomay approve an SD elsewhere in the ord properties, subject to	Provide a narrative that responds to the requirements of Section 3.12.2.A.ii  The proposed use is					
				compatible with existing car dealership on the		

#### SITE PLAN WITH SDO CONTRACT:

- 1. Pre-application meeting (current stage of review for these plans)
- 2. Planning Commission recommendation to City Council followed by 15-day public hearing

Item	Required Code	Proposed	Meets Code	Comments	
<ol> <li>City Council approval of <u>Concept plan</u> followed by a public hearing</li> <li>City Council approval of <u>SDO contract</u></li> <li>City Council approval of <u>Preliminary Site Plan *</u></li> <li>Final Site Plan review and approval administratively unless otherwise requested by City Council</li> </ol>					
Development Standa	Development Standards (Sec 3.1.16.D)				
Lot Size	Minimum Area: 2 acres Minimum Lot Width: 200 ft.	9.48 acres 407 ft.	Yes		
Lot Coverage	See Section 3.11				
Setbacks	See Section 3.11				
Building Height	35 ft. or 2 stories, whichever is less	25 ft.	Yes		
Parking Setbacks	See Section 3.11				
Building Setbacks (Se	ec 3.11.5)				
Major Thoroughfare	(Grand River Avenue)				
Front (Grand River)	Min: 70 ft. from centerline Max: 90 ft. from centerline	90 ft. (Grand River Avenue)	Yes		
Exterior Side (Meadowbrook)		90 ft. (Meadowbrook Road)			
Side (west)	0 ft.	59.76 ft.	Yes		
Rear (south)	30 ft. Minimum	326.74 ft.	Yes		
Parking Setback (See	C 3.11.6.A)				
Front (Grand River)	No front yard parking allowed	None proposed	Yes		
Exterior Side (Meadowbrook)					
Side	10 ft. with 5 ft. from building facade	35.34 ft.	Yes		
Rear (south)	10 ft.	124.15 ft.	Yes		
Notes To District Stan	dards for GE/SDO Option (Sec 3.0	5.2)			
Maximum number of stories for SDO (Sec 3.6.2.G)	3 stories max See Sec. 3.12.5.E.vi	2 stories proposed	Yes		
Minimum lot size for SDO (Sec 3.6.2.1)	Min: 5 acres Minimum lot width: 300 ft.	9.48 acres 407 ft.	Yes		
Maximum building height for SDO (Sec 3.6.2.J)	May be increased to 50 ft. Any structure within 300 ft. of one-family residential is 35 ft.	25 ft.	Yes		
Parking setback	Required parking setback area	Meets the minimum	Yes	Refer to Landscape	

Item	Required Code	Proposed	Meets Code	Comments
screening (Sec 3.6.2.P)	shall be landscaped per Sec. 5.5.3. Abutting residential requires a berm.	requirements		review for additional comments
Modification of Parking Setback Requirements (Sec. 3.6.2.Q)	Planning Commission may modify if determined modification will improve the use of the site and landscaping	None requested	NA	
District Required Con	nditions for GE (Sec. 3.11)			
Maximum FAR (Sec. 3.11.2.A)	Maximum floor area ratio shall be 0.275.	0.158	Yes	
Max. Stories (Sec. 3.11.2.B)	Maximum number of stories is limited to two.	NA See SDO Requirements	NA	
Off-street Parking (Sec. 3.11.3)	Off-street parking shall be provided within the building, parking structure, or designed parking area within 300 ft. Stilt parking is not allowed. All parking in a structure must be screened.	Parking lot within 300 feet.	Yes	
Outdoor storage (Sec. 3.11.4)	The outdoor storage of goods or material shall be prohibited.	Car for sale will be stored outside	Yes	
Building Setbacks (Sec. 3.11.5)	See Chart 3.11.5. See above.			
Parking Lot Screening (Sec. 3.11.6.B)	Parking lots shall be screened from all major thoroughfares by a 2.5 foot brick or stone wall or 3 foot planting screen or existing vegetation to achieve 80% winter opacity and 90% summer opacity.	Meets the minimum requirements	Yes	Refer to Landscape review for additional comments
Open Space (Sec. 3.11.7)	25% of gross area of each development site shall be comprised of open space. Areas less than 20 ft. wide shall not be considered. Additional conditions apply per Sec. 3.11.7  Substantially all of the total open space area must be designed as useable space.	2.37 acres required 2.63 acres provided per site data	Yes?	Is 8.51 acres after ROW dedication? Indicate how open space is calculated?  Areas less than 20 ft. wide shall not be considered.  This is considered a
				deviation as required useable open space is not provided
Building Façade	Street corner buildings should	Current elevations do	No	This is considered a

Item	Required Code	Proposed	Meets Code	Comments
and Scale	have greater massing and height. Additional height upto 40 ft. may be approved by Council to provide additional massing.	not meet the massing requirement.		deviation and can be supported if there are enhanced site elements proposed, as required by the corner sites in GE district  Refer to Façade review letter for more comments
Sidewalks and Bicycle Paths (Sec. 3.11.9)	8 ft. pathway along Grand River. 6 ft. sidewalk along Meadowbrook Road Bicycle Paths are required per the Master Plan.	Sidewalk on Meadowbrook existing 8 feet pathway on Grand River proposed	Yes	
Streetscape Amenities (Sec. 3.11.10)	Decorative pedestrian-scale parking lot lighting, public pathways, bicycle racks, etc. Grand River lighting, landscape plantings, etc.	A corner pedestrian plaza is proposed	Yes?	Additional details are not provided such as landscape or hardscape amenities
Loading (Sec. 3.11.12)	Located in rear yard or interior side yard, if fronting on more than one road	Loading proposed in rear yard	Yes	
Adjacency (Sec. 3.11.14)	City Council may impose additional conditions in order to ensure compatibility with and between adjacent properties	Will be determined at the time of Council meeting		
Special Developmen	nt Option (SDO) for the GE District	(Sec. 3.12)		
Intent (Sec. 3.12.1)	<ul> <li>Mixed use developments</li> <li>Quality residential development</li> <li>Conserving natural resources</li> <li>Compatibility between neighboring properties and downtown district</li> <li>Unique "entry" developments at the intersection of Grand River and Meadowbrook</li> </ul>	Car dealership, compatible with existing car dealership use nearby	Yes?	There is potential for making it "unique" development
Eligibility Criteria (Sec. 3.12.3.A)	SDO uses can be proposed only for properties located in GE district, subject to City Council approval	It is zoned for SDO uses	Yes	
Eligibility Criteria (Sec. 3.12.3.B)	The proposed development should comply with the criteria	Required usable open space is not provided;	No?	Refer to Planning Review letter for more

Item	Required Code	Proposed	Meets Code	Comments
	listed in Section 3.12.3.B			details.
				Please provide a narrative description as how the proposed use fist the criteria listed in Section 3.12.3.B
Project Design Standards: Non- Residential (Sec. 3.12.4.B)	The design standards listed in Section 3.12.4.B shall apply	A pedestrian plaza area is indicated, but details are not provided	No	There is an opportunity to provide attractive streetscape by proposing creative building foundation landscape. Refer to landscape review for more details  Please provide a narrative description and/or supporting exhibits as how the proposed use fist the criteria listed in Section 3.12.4.B
General Design Standards (Sec. 3.12.4.C)	Perimeter setback as determined by City Council	No setback provided near Grand River and Meadowbrook intersection		
	underground installation of utilities	None proposed??	NA	
	Safe pedestrian connectivity	Pathway along Grand River Avenue and sidewalk along Meadowbrook Road is proposed	Yes?	Sidewalk connection to proposed pathway on Grand River Avenue should be proposed
	The City's Grand River Corridor Plan and reasonably shall be incorporated in terms of design features and concepts applicable to the subject property.	More information on street lights, streetscape etc.	No	Provide additional amenities as required
	noise reduction and visual screening provisions when abutting residential uses	Abuts residential use to the south. The applicant provided a very detailed noise impact statement that address all kinds of noise that would be generated within the	Yes	

Item	Required Code	Proposed	Meets Code	Comments
		proposed site and all noise levels are under the maximum allowed		
	Reduce driveways and curb cuts along Grand River Avenue. Additional conditions apply	A new curb cut is proposed	No?	The applicant indicated in the response letter that discussion with the neighbor to have shared access weren't successful.
	On retail buildings, windows within areas of the premises to which the public is invited shall be made of materials which do not materially obstruct transparency	Glazed windows	Yes	
	The City Council shall resolve ambiguities in the interpretation of applicable regulations using the Zoning Ordinance, Master Plan, the intent of this Article and other City standards or policies as a guide.	Will be determined at the time of Council meeting		
Plan Information (Sec. 3.12.7.C.i.u)	Community impact statement is required.	Not Provided.	No	Abbreviated community impact statement is provided which address Traffic and Noise.
Site Standards: Parkir	ng and Circulation			
Number of Parking Spaces (Sec.5.2.12.C) Motor vehicle sales and service establishments	1 space for each 200 square feet of usable floor area and 1 for each auto service stall in service room	Total parking for facility proposed: 105 spaces)@ 1 space for each 200 square feet of 20, 798 sf of usable floor area)  Service bay: 34 spaces (1 space for each of 34 service bays)		
Parking Space Dimensions and Maneuvering Lanes (Sec. 5.3.2)	<ul> <li>90° Parking: 9 ft. x 19 ft.</li> <li>24 ft. two way drives</li> <li>9 ft. x 17 ft. parking spaces allowed along 7 ft. wide interior sidewalks as long as detail indicates a 4" curb at these locations and along</li> </ul>	9 x 19 ft. proposed 24 ft. proposed 9 ft. x 17 ft. parking spaces along landscape islands Some of the display	Yes	

Item	Required Code	Proposed	Meets Code	Comments		
	landscaping.	spaces are double- stacked.				
Parking stall located adjacent to a parking lot entrance(public or private) (Sec. 5.3.13)	Shall not be located closer than twenty-five (25) feet from the street right-of-way (ROW) line, street easement or sidewalk, whichever is closer	None proposed	Yes			
End Islands (Sec. 5.3.12)	<ul> <li>End Islands with landscaping and raised curbs are required at the end of all parking bays that abut traffic circulation aisles.</li> <li>The end islands shall generally be at least 8 feet wide, have an outside radius of 15 feet, and be constructed 3' shorter than the adjacent parking stall as illustrated in the Zoning Ordinance</li> </ul>	End islands are proposed.	Yes?	Refer to Traffic for more comments		
Site Standards: Barrie	r Free (ADA)					
Barrier Free Spaces Michigan Building Code 2012 / Barrier Free Code	5 barrier free parking spaces (for total 101-200); at least 1 van barrier free parking space	5 proposed including 1 van	Yes?			
Barrier Free Space Dimensions Michigan Building Code 2012 / Barrier Free Code	<ul> <li>8'wide with an 8' wide access aisle for van accessible spaces.</li> <li>5' wide with a 5' wide access aisle for regular accessible spaces.</li> </ul>	1 - 8' wide van accessible spaces provided.	Yes			
Barrier Free Signs MMUTCD / Barrier Free Code	One sign for each accessible parking space.	Provided	Yes			
Site Standards: Bicyc	Site Standards: Bicycle Parking					
Minimum number of Bicycle Parking (Sec. 5.16.1)	Minimum two spaces	6 spaces	Yes			
Bicycle Parking General requirements (Sec. 5.16)	<ul><li>No farther than 120 ft. from the entrance being served.</li><li>When 4 or more spaces are required for a building with</li></ul>	All 6 spaces provided in one location	No?	This is considered a deviation for having more than 4 spaces I none location.		

Item	Required Code	Proposed	Meets Code	Comments
	multiple entrances, the spaces shall be provided in multiple locations.  - Spaces to be paved and the bike rack shall be inverted "U" design.  - Shall be accessible via 6 ft. paved sidewalk.			The applicant can consider relocating couple of locations at the pedestrian plaza.
Covered Bicycle Parking (Sec. 5.16.4)	When 20 or more bicycle parking spaces are required, 25% shall be covered spaces.	Not applicable	NA	
Bicycle Parking Lot layout (Sec 5.16.6)	Parking space width: 6 ft. One tier width: 10 ft. Two tier width: 16 ft. Maneuvering lane width: 4 ft. Parking space depth: 2 ft. single, 2 ½ ft. double	Meets the standard	Yes	
Site Standards: Loadi	ng and Dumpsters			
Loading Spaces (Sec. 5.4.2)	<ul> <li>Loading, unloading space shall be provided in the rear yard at a ratio of 10 sq. ft. for each front foot of building.</li> <li>Except in the case of a double frontage lot, loading-unloading, as well as trash receptacles may be located in an interior side yard beyond the minimum side yard setback requirement of the district.</li> </ul>	Loading space proposed in side yard  2460 square feet space is provided. It appears to meet the requirement	Yes?	Provide the required and proposed loading area calculation
Dumpster (Sec 4.19.2.F)	<ul> <li>Located in rear yard or interior side yard in case of double frontage</li> <li>Attached to the building or</li> <li>No closer than 10 ft. from building if not attached</li> <li>Not located in parking setback</li> <li>If no setback, then it cannot be any closer than 10 ft. from property line.</li> <li>Away from Barrier free Spaces</li> </ul>	Appears to be located in the side yard Attached to the building	Yes?	Label dumpster location on plans

Item	Required Code	Proposed	Meets Code	Comments	
Dumpster Enclosure (Sec. 21-145. (c))	<ul> <li>Screened from public view</li> <li>A wall or fence 1 ft. higher than height of refuse bin</li> <li>And no less than 5 ft. on three sides</li> <li>Posts or bumpers to protect the screening</li> <li>Hard surface pad.</li> <li>Screening Materials: Masonry, wood or evergreen shrubbery</li> </ul>	It appears to be brick as indicated on south building elevation	Yes?	Will be reviewed for conformance at the time of site plan review.	
Site Standards: Lighting	ng and Rooftop				
Exterior lighting (Sec. 5.7)	<ul> <li>All residential developments shall provide lighting at each entrance intersecting with a major thoroughfare sufficient to illuminate the entrance of the development.</li> <li>Minimum illumination shall be 0.2 fc</li> <li>Fixtures shall not exceed 25 ft.</li> <li>Lighting shall be subject to the requirements of this Section of the Zoning Ordinance.</li> </ul>	Lighting plan is provided.	Yes?	Provide the missing information with the next submittal	
Roof top equipment and wall mounted utility equipment (Sec. 4.19.2.E.ii)	All roof top equipment must be screened and all wall mounted utility equipment must be enclosed and integrated into the design and color of the building.	Unknown	No	Provide location of utility equipment.	
Roof top appurtenances screening	Roof top appurtenances shall be screened in accordance with applicable facade regulations, and shall not be visible from any street, road or adjacent property.	Unknown	No	Will be reviewed for conformance at the time of site plan review.	
Accessory Structures	Additional regulations apply per Section 4.19	None proposed			
Site Standards: Street	Site Standards: Streets & Sidewalks				
Frontage on a Public Street (Sec. 5.12)	Frontage on a Public Street is required	Frontage on Grand River	Yes		
Access to a Major Thoroughfare (Sec. 5.13)	Vehicular access provided to an existing or planned major thoroughfare	Access to Grand River	Yes		

Item	Required Code	Proposed	Meets Code	Comments
Off-Road Non- Motorized Facilities City Ordinance Ch. 11, Sec. 11-256	<ul> <li>New streets shall have a sidewalk on both sides of the proposed street.</li> <li>Sidewalks identified by the master plan as arterials and collectors shall be 6 ft. or 8 ft. wide designated by the Bike/Ped Plan.</li> <li>Local streets and private roads shall be 5 ft.</li> </ul>	Sidewalk existing on Meadowbrook Road. 8 feet wide asphalt path along Grand River Avenue None proposed along Cherry Hill Road	No	Absence of sidewalk is considered a deviation and can be supported due to existing natural features.
Pedestrian Connectivity	Whether the traffic circulation features within the site and location of automobile parking areas are designed to assure safety and convenience of both vehicular and pedestrian traffic both within the site and in relation to access streets	along Meadowbrook is proposed Connection to sidewalk along Grand River Avenue is not proposed	No	Provide the required connections to public sidewalk along Grand River Avenue
	ther design standard Requiremer			
Building Exits Michigan Building Code 2012	Building exits must be connected to sidewalk system or parking lot.	Some of the exits are not connected to a sidewalk system or parking lot.	No	
Design and Construction Standards Manual	Land description, Sidwell number (metes and bounds for acreage parcel, lot number(s), Liber, and page for subdivisions).	Provided	Yes	
General layout and dimension of proposed physical improvements	Location of all existing and proposed buildings, proposed building heights, building layouts, (floor area in square feet), location of proposed parking and parking layout, streets and drives, and indicate square footage of pavement area (indicate public or private).	Mostly provided	Yes?	Refer to all review letters for additional dimensions requested
Economic Impact	<ul> <li>Total cost of the proposed building &amp; site improvements</li> <li>Number of anticipated jobs created (during construction &amp; after building is occupied, if known)</li> </ul>	None provided	No	

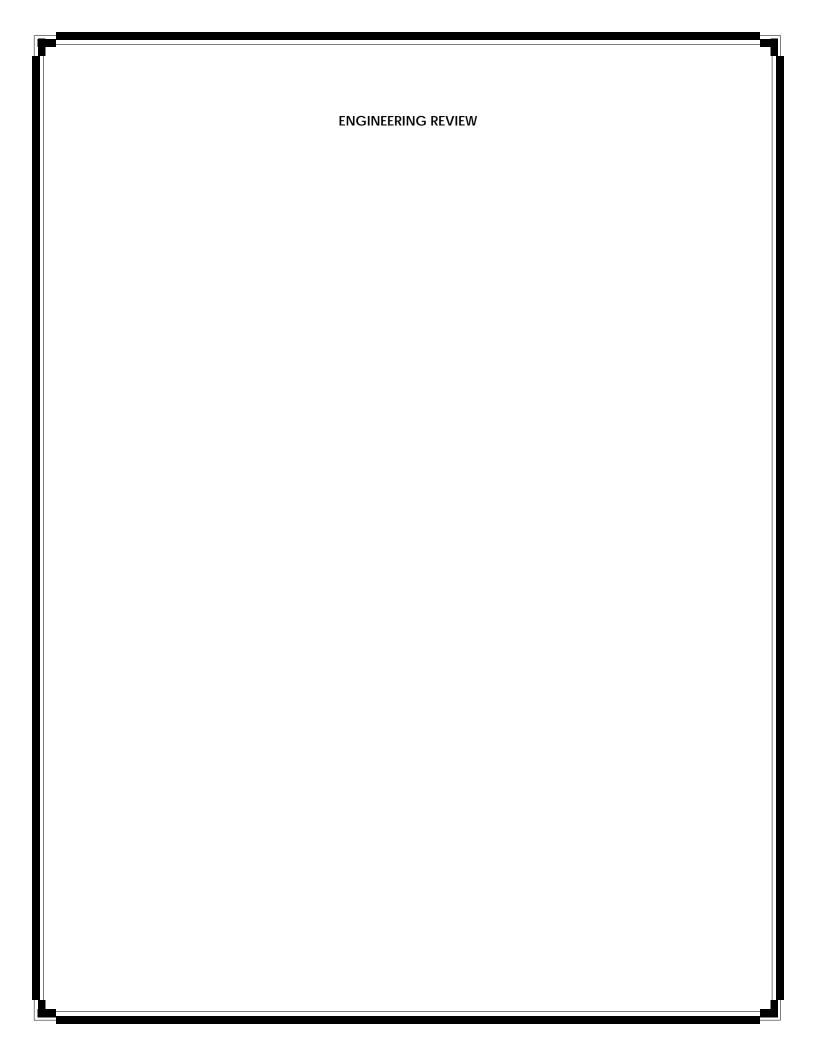
Item	Required Code	Proposed	Meets Code	Comments
Development/ Business Sign	<ul> <li>Signage if proposed requires a permit.</li> <li>Exterior Signage is not regulated by the Planning Division or Planning Commission.</li> </ul>	One is not proposed at this time	NA	Given the nature of business, staff recommends to indicate the location on the site plan to verify corner clearance etc. Façade proposes clear glass. Any display inside the building that can be seen through can be perceived as signage as well.  For sign permit information contact Ordinance at 248-735-5678
Project and Street Naming	Project and Street Names are to be approved for public safety concerns	Not applicable	NA	
Legal Documents	<ul><li>Special Development</li><li>Agreement</li><li>Master Deed</li><li>Conservation Easement</li></ul>	Not required at this time	No	Work with planner to execute them as needed
Lighting and Photon	netric Plan (Sec. 5.7)			
Intent (Sec. 5.7.1)	Establish appropriate minimum levels, prevent unnecessary glare, reduce spillover onto adjacent properties & reduce unnecessary transmission of light into the night sky	One is provided	Yes?	Some information is missing
Lighting Plan (Sec. 5.7.A.i)	Site plan showing location of all existing & proposed buildings, landscaping, streets, drives, parking areas & exterior lighting fixtures	Indicated as required	Yes?	
Building Lighting (Sec. 5.7.2.A.iii)	Relevant building elevation drawings showing all fixtures, the portions of the walls to be illuminated, illuminance levels of walls and the aiming points of any remote fixtures.	Not provided	No	Will be reviewed for conformance at the time of site plan review.
Lighting Plan (Sec.5.7.2.A.ii)	Specifications for all proposed & existing lighting fixtures	Provided	Yes	
(300.0.7.2.7.1.11)	Photometric data	Provided	Yes?	
	Fixture height	25 feet	Yes	
	Mounting & design	Text provided	Yes?	

Item	Required Code	Proposed	Meets Code	Comments
	Glare control devices (Also see Sec. 5.7.3.D)	LED		
	Type & color rendition of lamps	LED	Yes	
	Hours of operation	Not included		
	Photometric plan illustrating all light sources that impact the subject site, including spillover information from neighboring properties			
Maximum Height (Sec. 5.7.3.A)	Height not to exceed maximum height of zoning district (or 25 ft. where adjacent to residential districts or uses)	25 ft. maximum proposed	Yes	
Standard Notes (Sec. 5.7.3.B)	<ul> <li>Electrical service to light fixtures shall be placed underground</li> <li>Flashing light shall not be permitted</li> <li>Only necessary lighting for security purposes &amp; limited operations shall be permitted after a site's hours of operation</li> </ul>	Unable to determine	Yes?	Please add the notes to the sheet
Security Lighting (Sec. 5.7.3.H)  Lighting for security purposes shall be directed only onto the area to be secured.	<ul> <li>All fixtures shall be located, shielded and aimed at the areas to be secured.</li> <li>Fixtures mounted on the building and designed to illuminate the facade are preferred</li> </ul>	The plan indicates that all exterior lighting will be turned on at all times	Yes?	The applicant should consider having reduced lighting for security purposes after hours due to proximity to residential uses
Lighting Ratio (Sec.5.7.3.E)	Average light level of the surface being lit to the lowest light of the surface being lit shall not exceed 4:1	3.6:1	Yes	
Type of Lighting (Sec. 5.7.3.F)	Use of true color rendering lamps such as metal halide is preferred over high & low pressure sodium lamps	LED	Yes	
	Parking areas: 0.2 min	0.2 min	Yes	
Min Illumination	Loading & unloading areas: 0.4 min	0.4 min	Yes	
Min. Illumination (Sec. 5.7.3.k)	Walkways: 0.2 min	0.2 min	Yes	
(000. 0.7.0.8)	Building entrances, frequent use: 1.0 min	1.0 min	Yes	
	Building entrances, infrequent use: 0.2 min	0.2 mins	Yes	

Item	Required Code	Proposed	Meets Code	Comments
Max. Illumination adjacent to Non- Residential (Sec. 5.7.3.K)	When site abuts a non- residential district, maximum illumination at the property line shall not exceed 1 foot candle	Abuts non-residential on the south North West	Yes	Spillover exceeds 1 along Grand River and Meadowbrook frontage near the entry drive  Spillover should be calculated at the future ROW line
Cut off Angles (Sec. 5.7.3.L)	when adjacent to residential districts  - All cut off angles of fixtures must be 90°  - maximum illumination at the property line shall not exceed 0.5 foot candle	Does not exceed 0.5 along southwest boundary where it abuts residential	Yes	

#### **NOTES:**

- 1. This table is a working summary chart and not intended to substitute for any Ordinance or City of Novi requirements or standards.
- 2. The section of the applicable ordinance or standard is indicated in parenthesis. Please refer to those sections in Article 3, 4 and 5 of the zoning ordinance for further details
- 3. Please include a written response to any points requiring clarification or for any corresponding site plan modifications to the City of Novi Planning Department with future submittals.





## PLAN REVIEW CENTER REPORT

September 5, 2018

## **Engineering Review**

Jaguar/Land Rover JSP17-0065

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## <u>Applicant</u>

Erhard Motor Sales Inc.

## Review Type

Pre-Application

## Property Characteristics

Site Location: South of Grand River Avenue, East of Meadowbrook Road

Site Size: 26 acres
 Plan Date: 08/06/2018
 Design Engineer: PEA, Inc.

## **Project Summary**

- Proposed development of an approximate 53,211 square foot retail motor sales facility with associated parking.
- Water service would be provided by connection to existing 12-inch water main in Meadowbrook.
- Sanitary sewer service would be provided by connection to existing 8-inch sanitary sewer lead crossing Grand River Avenue
- Storm water would be collected on site and detained in the existing off-site Bishop regional detention basin.

#### Recommendation:

The Concept site plan and Concept Storm Water Management can be recommended for approval with items to addressed during detailed design.

## **Comments:**

The Concept Plan meets the general requirements of Chapter 11 of the Code of Ordinances, the Storm Water Management Ordinance and/or the Engineering Design Manual, with the following review comments to be addressed with future submittals:

## Additional Comments (to be addressed with future submittals):

## General

- 1. A full engineering review was not performed due to the limited information provided in this submittal. Further information related to the utilities, easements, etc. will be required to provide a more detailed review.
- 2. Revise the plan set to tie in at least one city established benchmark. An interactive map of the City's established survey benchmarks can be found under the 'Map Gallery' tab on <a href="www.cityofnovi.org">www.cityofnovi.org</a>. City benchmark number 2411 is located southeast of the Grand River and Meadowbrook intersection.
- 3. Provide a note on the plans that all work shall conform to the current City of Novi standards and specifications.
- 4. A same-side/opposite-side driveway spacing waiver, granted by the Planning Commission, would be required for the proposed location of the entrance drive off Grand River Avenue with respect to the adjacent drive to the west. Consider a shared driveway with cross access easement to avoid the need for another curb cut and the spacing waiver.
- 5. A right-of-way permit will be required from the City of Novi for work in the Meadowbrook Road and Grand River Avenue rights-of-way.
- 6. A right-of-way permit will be required from the Road Commission for Oakland County for work in the Grand River Avenue right-of-way.
- 7. An 8-foot wide asphalt wide pathway along the frontage of Grand River is shown on the plans, in accordance with the Bicycle and Pedestrian Master Plan.
- 8. A 5-foot sidewalk may be required along the Cherry Hill frontage in accordance with the Zoning Ordinance. Refer to Planning review for additional discussion.
- 9. The dedication of the master-planned half width right-of-way of sixty (60) feet is requested with the project. The right-of-way width to be dedicated along Meadowbrook Road is labeled as "proposed" right-of-way on the plans.
- 10. The dedication of the additional right-of-way up to the master-planned 60 foot half-width is requested for the project. The additional right-of-way width to be dedicated along Grand River Avenue is labeled as "proposed" right-of-way on the plans.
- 11. Soil borings shall be provided for a preliminary review of the constructability of the proposed development (roads, basin, etc.). Borings identifying soil types, and groundwater elevation should be provided at the time of Preliminary Site plan.

12. A letter from either the applicant or the applicant's engineer must be submitted with the Preliminary Site Plan submittal highlighting the changes made to the plans addressing each of the comments in this review.

#### **Utilities**

- 13. The existing water main on the site is not considered acceptable for service. All existing water main should be removed and replaced as needed.
- 14. Note that a tapping sleeve, valve and well will be provided at the connections to the existing water main.
- 15. Confirm location of existing 8-inch sanitary crossing Grand River.
- 16. Provide a sanitary sewer monitoring manhole, unique to this site, within a dedicated access easement or within the road right-of-way or public sanitary sewer easement. If not in the right-of-way or public sewer main easement, provide a 20-foot wide access easement to the monitoring manhole from the right-of-way (rather than a public sanitary sewer easement).

## Paving & Grading

- 17. Site grading shall be limited to 1V:4H (25-percent), excluding landscaping berms.
- 18. The end islands shall conform to the City standard island design, or variations of the standard design, while still conforming to the standards given in Section 2506 of Appendix A of the Zoning ordinance (i.e. 2' minor radius, 15' major radius, minimum 8' wide, 3' shorter than adjacent 19' stall).
- 19. Revise the entrance driveway from Meadowbrook to be consistent with the standard dimensions shown in Figure IX.1 and Section 11-216 of the Design and Construction Standards.
- 20. Curbing and walks adjacent to the end of 17-foot stalls shall be reduced to 4-inches high, rather than the standard 6-inch height to be provided adjacent to 19-foot stalls. Provide additional details as appropriate.

## Storm Sewer & Storm Water Management Plan

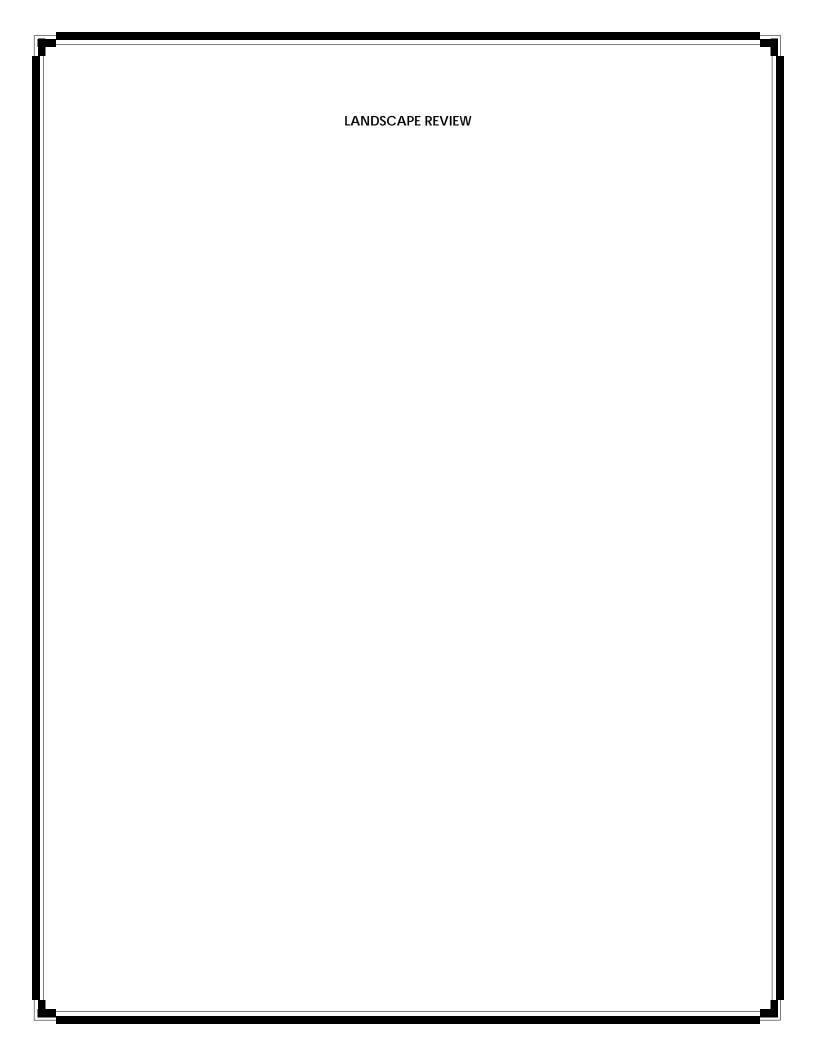
- 21. Provide a four-foot deep sump and an oil/gas separator in the last storm structure prior to the storm water quality basin.
- 22. Storm sewer pipe material shall be Class IV RCP, or ADS-HP high performance polypropylene storm sewer. Plastic pipe is not permitted within the public right-of-way.
- 23. The Storm Water Management Plan (SWMP) shall comply with the Storm Water Ordinance and <u>Chapter 5 of the Engineering Design Manual</u> (refer to the runoff coefficients, 1V:4H allowable basin slopes, etc.).
- 24. Unrestricted discharge to an off-site regional storm water basin is proposed. Applicable storm sewer tap fees will be determined prior to final site plan approval.

## Off-Site Easements

25. Off-site utility easements and agreements must be executed prior to final approval of the plans. Drafts shall be submitted at the time of the Preliminary Site Plan submittal.

Please contact Darcy Rechtien at (248) 735-5695 with any questions.

Darcy N. Rechtien, P.E.





## PLAN REVIEW CENTER REPORT

August 29, 2018

# SDO Concept Plan - Landscaping

Jaguar/Land Rover

Review Type
SDO Concept Plan Landscape Review
Job #
JSP17-0065

## **Property Characteristics**

• Site Location: Southwest Corner of Grand River and Meadowbrook

Site Acreage: 8.2 acresSite Zoning: GE

Adjacent Zoning: North: Grand River/NCC, East: Meadowbrook/OS-1, South: Cherry

Hill/RM-2, West: GE(Multifamily) and NCC

• Plan Date: 8/8/2018

#### **Ordinance Considerations**

This project was reviewed for conformance with Chapter 37: Woodland Protection, Zoning Article 5.5 Landscape Standards, the Landscape Design Manual and any other applicable provisions of the Zoning Ordinance. Items in **bold** below must be addressed and incorporated as part of the Preliminary Site Plan submittal. <u>Underlined</u> items must be addressed in Final Site Plans. Please follow guidelines of the Zoning Ordinance and Landscape Design Guidelines. This review and the accompanying Landscape Chart are summaries and are not intended to substitute for any Ordinance.

#### **Recommendation**

This project is recommended for approval. There are a number of corrections to be made, but none are significant enough that they can't move forward and make the corrections in the Preliminary and Final Site Plans.

#### LANDSCAPE DEVIATIONS:

- 1. Deviation to not provide street trees along Grand River (8 trees) supported by staff because there is no room for the trees
- 2. Deviation to not provide street trees along Cherry Hill (11 trees) supported by staff because there is no room for the trees.
- 3. Deviation to not provide greenbelt berm or plantings in area of wetland in order to preserve wetland *supported by staff*.
- 4. Deviation to not provide greenbelt berm in greenbelt between Cherry Hill and the parking lot area not behind the wetland not supported by staff.

Please copy the above deviations, not including the support comments, to the Landscape Plans.

#### **Ordinance Considerations**

Existing Soils (Preliminary Site Plan checklist #10, #17)
Provided.

Existing and proposed overhead and underground utilities, including hydrants.(LDM 2.e.(4))

- 1. Provided.
- 2. The overhead utility lines in the vicinity of the project are clearly noted.

Existing Trees (Sec 37 Woodland Protection, Preliminary Site Plan checklist #17 and LDM 2.3 (2) )
Provided.

## Adjacent to Residential - Buffer (Zoning Sec. 5.5.3.B.ii and iii)

- 1. While the property is not adjacent to residentially zoned property, the property to the west is a multi-family project under construction.
- 2. The 5 foot tall berm provided meets the requirement for parking adjacent to residential and the west property line is heavily landscaped with a mix of woodland replacement deciduous canopy trees.
- 3. Please extend the berm south to the edge of the critical root zone of tree #1573. If the applicant is willing to plant or pay for one more woodland replacement tree, it would be preferable to extend the berm to the edge of the wetland buffer.

### Adjacent to Public Rights-of-Way - Berm (Wall) & Buffer (Zoning Sec. 5.5.3.B.ii and iii)

- 1. The required greenbelt width is provided along both frontages.
- 2. There are some minor shortages in landscaping provided along the frontages that area outlined on the landscape chart, and should be corrected with Preliminary Site Plans.
- 3. No berms are provided as required. Evergreen hedges are proposed along Meadowbrook and a small section of Grand River frontage, but three foot tall berms or masonry walls are preferred as they provide more permanent screening than hedges do.
- 4. Please provide berms or walls in place of the hedges. If the hedges are kept, please provide justification for the hedge in place of berms or walls.
- 5. The applicant is not providing a berm or landscaping in the area of the wetland along Cherry Hill Road. This deviation is supported by staff because adding those elements would damage the wetland.
- 6. The applicant is not providing a berm or landscaping in the Cherry Hill Road greenbelt. This deviation is not supported by staff at this time. Please provide justification for not providing the required 3 foot tall berm in that area.

#### Street Tree Requirements (Zoning Sec. 5.5.3.E.i.c and LDM 1.d.)

- 1. Street trees are provided along Meadowbrook as required.
- 2. Street trees are not provided along either Grand River or Cherry Hill. These deviations are supported by staff because a drainage ditch and utility lines do not provide room for the trees along Grand River, and a deep ditch along Cherry Hill does not allow room for street trees there.

#### Parking Lot Landscaping (Zoning Sec. 5.5.3.C.)

- 1. Based on the vehicular use areas, 4,775 sf of islands and 24 trees are required. 11,612 sf of islands and 24 trees are provided.
- 2. Each interior island and endcap island must have at least one tree planted in it. There are 6 islands that do not have the required tree.
- 3. Please add trees in those islands.
- **4.** Woodland replacement trees should not be planted in parking lot islands. **Please remove them.**
- 5. There must be at least 200sf of green space per tree planted in interior islands. Many of the islands with less than 400sf of area have 2 trees planted in them. Please do not plant trees in situations with less than the required area.

## Parking Lot Perimeter Canopy Trees (Zoning Sec. 5.5.3.C.(3) Chart footnote)

1. Based on the 2,099lf of perimeter, 60 trees are required. 46 new trees, 7 greenbelt trees within 15 feet of the parking lot are being double-counted as perimeter trees, as is

- allowed, and 7 existing trees being preserved that are within 15 feet of the parking lot are provided.
- 2. Please move the western greenbelt tree along the Meadowbrook entry drive to the greenbelt.

### Loading Zone screening (Zoning Sec. 3.14, 3.15, 4.55, 4.56, 5.5)

Please provide more solid screening between Meadowbrook Road and the loading area.

#### Building Foundation Landscape (Zoning Sec 5.5.3.D.)

- 1. Based on the hatched areas and calculations it appears that sufficient building foundation landscaping will be provided.
- 2. Please provide detailed foundation planting plans for the building frontages along Grand River and Meadowbrook to help assess how well the project meets the goals of the Gateway SDO.
- 3. The remaining foundation planting detail drawings can be provided with Final Site Plans.

#### **Woodland Replacement Trees**

Please do not locate woodland replacement trees in areas where they cannot be protected, such as in the greenbelt where utilities are nearby, in parking lot islands, etc.

#### Plant List (LDM 2.h. and t.)

Provided.

## Planting Notations and Details (LDM)

Provided.

#### Storm Basin Landscape (Zoning Sec 5.5.3.E.iv and LDM 1.d.(3)

Provided.

#### <u>Irrigation (LDM 1.a.(1)(e) and 2.s)</u>

- 1. The proposed landscaping must be provided with sufficient water to become established and survive over the long term.
- 2. Please note how this will be accomplished if an irrigation plan is not provided.

### Proposed topography. 2' contour minimum (LDM 2.e.(1))

Provided.

### Snow Deposit (LDM.2.q.)

Provided.

#### Proposed trees to be saved (Sec 37 Woodland Protection 37-9, LDM 2.e.(1))

Provided.

#### Corner Clearance (Zoning Sec 5.9)

Provided.

If the applicant has any questions concerning the above review or the process in general, do not hesitate to contact me at 248.735.5621 or rmeader rmeader@cityofnovi.org.

The Meader

Rick Meader - Landscape Architect

## LANDSCAPE REVIEW SUMMARY CHART - SDO Concept Plan

Review Date: August 29, 2018

**Project Name:** JSP17 – 0065: Jaguar/Land Rover

Plan Date: August 18, 2017

Prepared by: Rick Meader, Landscape Architect E-mail: <a href="mailto:rmeader@cityofnovi.org">rmeader@cityofnovi.org</a>;

Phone: (248) 735-5621

Items in **Bold** need to be addressed by the applicant before approval of the Preliminary Site Plan. <u>Underlined</u> items need to be addressed for Final Site Plan.

#### LANDSCAPE DEVIATIONS:

- 1. Deviation to not provide street trees along Grand River (8 trees) supported by staff because there is no room for the trees
- 2. Deviation to not provide street trees along Cherry Hill (11 trees) supported by staff because there is no room for the trees.
- 3. Deviation to not provide greenbelt berm or plantings in area of wetland in order to preserve wetland supported by staff.
- 4. Deviation to not provide greenbelt berm in greenbelt between Cherry Hill and the parking lot area not behind the wetland not supported by staff.

Item	Required	Proposed	Meets Code	Comments
Landscape Plan Requir	ements (LDM (2)			
Landscape Plan (Zoning Sec 5.5.2, LDM 2.e.)	<ul> <li>New commercial or residential developments</li> <li>Addition to existing building greater than 25% increase in overall footage or 400 SF whichever is less.</li> <li>1"=20' minimum with proper North. Variations from this scale can be approved by LA</li> <li>Consistent with plans throughout set</li> </ul>	Scale 1"=50'	Yes	When building foundation planting designs are provided, please use a scale no less than 1"=20'.
Project Information (LDM 2.d.)	Name and Address	Yes	Yes	
Owner/Developer Contact Information (LDM 2.a.)	Name, address and telephone number of the owner and developer or association	Yes	Yes	
Landscape Architect contact information (LDM 2.b.)	Name, Address and telephone number of RLA	Yes	Yes	
Sealed by LA. (LDM 2.g.)	Requires original signature	Yes	Yes	Need for Final Site Plans
Miss Dig Note (800) 482-7171	Show on all plan sheets	Yes	Yes	

Item	Required	Proposed	Meets Code	Comments
(LDM.3.a.(8))				
Zoning (LDM 2.f.)	Include all adjacent zoning	Sheet SP-2.0 Parcel: GE North: Grand River East: Meadowbrook Rd South: Cherry Hill Rd West: GE & NCC	Yes	Please show zoning of adjacent parcels on landscape plan.
Survey information (LDM 2.c.)	<ul><li>Legal description or boundary line survey</li><li>Existing topography</li></ul>	Topo, description on SP1.0	Yes	
Existing plant material Existing woodlands or wetlands (LDM 2.e.(2))	<ul> <li>Show location type and size. Label to be saved or removed.</li> <li>Plan shall state if none exists.</li> </ul>	<ul> <li>Existing trees shown on SP1.0</li> <li>Proposed removals, calculations on T-1.0</li> <li>Tree Chart on T-1.1</li> </ul>	Yes	<ol> <li>See ECT review for full analysis of Wetlands &amp; Woodlands.</li> <li>Please move the note stating "Provide Tree Protection Fence Around Existing Trees to Remain, Typ." At the brick plaza area down to point at preserved trees.</li> <li>Please remove trees #1573 and #1574 so the berm can be extended further southward.</li> </ol>
Soil types (LDM.2.r.)	<ul> <li>As determined by Soils survey of Oakland county</li> <li>Show types, boundaries</li> </ul>	Sheet SP-2.0	Yes	
Existing and proposed improvements (LDM 2.e.(4))	Existing and proposed buildings, easements, parking spaces, vehicular use areas, and R.O.W	Yes	Yes	
Existing and proposed utilities (LDM 2.e.(4))	<ul> <li>Overhead and underground utilities, including hydrants</li> <li>Show light posts</li> </ul>	Yes	Yes	
Proposed grading. 2' contour minimum (LDM 2.e.(1))	Provide proposed contours at 2' interval	Sheet SP-3.0	Yes	<ol> <li>Please provide required berms in greenbelts adjacent to parking.</li> <li>See below for berm requirements.</li> </ol>
Snow deposit (LDM.2.q.)	Show snow deposit areas on plan	Yes	Yes	

Item	Required	Proposed	Meets Code	Comments
LANDSCAPING REQUIRE	MENTS			
Parking Area Landscap	e Requirements LDM 1.c. &	Calculations (LDM 2.0	.)	
General requirements (LDM 1.c)	<ul><li>Clear sight distance within parking islands</li><li>No evergreen trees</li></ul>	25' clear vision zone shown for both Grand River and Meadowbrook Rd.	Yes/No	<ul> <li>Please show RCOC sight clearance for Grand River entry.</li> <li>Remove any shrubs taller than 30" or trees from the zone.</li> </ul>
Name, type and number of ground cover (LDM 1.c.(5))	As proposed on planting islands	Seed and/or sod are indicated on islands	Yes	Please make seed/sod hatches more different for easier interpretation.
General (Zoning Sec 5.	5.3.C.ii)			
Parking lot Islands (a, b. i)	<ul> <li>A minimum of 200 SF to qualify</li> <li>A minimum of 200sf unpaved area per tree planted in an island</li> <li>6" curbs</li> <li>Islands minimum width 10' BOC to BOC</li> </ul>	Yes	TBD	1. It is difficult to determine where backs of curb are on plans. Please dimension widths of islands at back of curb.  2. Please increase widths or areas of islands as necessary.
Curbs and Parking stall reduction (c)	Parking stall can be reduced to 17' and the curb to 4" adjacent to a sidewalk of minimum 7 ft.	Yes	Yes	
Contiguous space limit (i)	<ul> <li>Maximum of 15         contiguous spaces.</li> <li>Maximum of 25         contiguous spaces in         vehicular storage area</li> </ul>	15 is maximum bay length	Yes	<ol> <li>All endcap islands and islands used to break up bays must be landscaped with a deciduous canopy tree.</li> <li>There are 6 interior or endcap islands that need to have trees.</li> <li>Please add trees as necessary and enlarge island planting area(s) if necessary to accommodate them.</li> </ol>
Plantings around Fire Hydrant (a)	No plantings with matured height greater than 12' within 10 ft. of fire hydrants	None are too close	Yes	
Landscaped area (g)	Areas not dedicated to parking use or driveways exceeding 100 sq. ft. shall be landscaped	Yes	Yes	

Item	Required	Proposed	Meets Code	Comments
Clear Zones (LDM 2.3.(5))	25 ft corner clearance required. Refer to Zoning Section 5.5.9	No	No	Please indicate clear vision zone per RCOC regulations for Haggerty Road entry and all entries to interior road.
	OS-2, OSC, OST, B-1, B-2, B-district (Zoning Sec 5.5.3.C.		C-1, RC, Sp	ecial Land Use or non-
A = Total square footage of vehicular use areas up to 50,000sf x 7.5%	<ul> <li>A = x sf * 7.5 % = A sf</li> <li>50,000 * 7.5% = 3750 sf</li> </ul>		Yes	
B = Total square footage of additional paved vehicular use areas (not including A or B) over 50,000 SF) x 1 %	<ul> <li>B = x sf * 1% = B sf</li> <li>(152,486 - 50000) * 1%</li> <li>= 1,025 sf</li> </ul>		Yes	
Category 2: For: I-1 and	d I-2 (Zoning Sec 5.5.3.C.iii)			
A. = Total square footage of vehicular use area up to 50,000 sf x 5%	A = x sf * 5% = A sf	NA		
B = Total square footage of additional paved vehicular use areas over 50,000 SF x 0.5%	B = 0.5% x 0 sf = B SF	NA		
All Categories				
C = A+B Total square footage of landscaped islands	3750 + 1025 = 4775 SF	11,612 sf	Yes	
D = C/200 Number of canopy trees required	■ 4775/200 = 24 Trees	24 trees	Yes	<ol> <li>Woodland replacement trees should not be planted in parking lot islands.</li> <li>Woodland replacement trees should also not be placed in the greenbelt or other areas where they cannot be protected with an easement.</li> <li>Please move replacement trees out of those areas. If they cannot fit on the site in acceptable locations, a deposit</li> </ol>

Item	Required	Proposed	Meets Code	Comments
				for the trees that can't be planted can be made to the city's tree fund.
Perimeter Green space	<ul> <li>1 Canopy tree per 35 If</li> <li>2099/35 = 60 trees</li> </ul>	46 new trees + 7 perimeter trees + 7 existing trees	Yes	<ol> <li>Please move the perimeter tree furthest in the Meadowbrook entry out to between the parking lot and Meadowbrook if it is to count as a greenbelt tree.</li> <li>If fewer replacement trees were placed in the greenbelt, there would be plenty of room for all of the required greenbelt trees.</li> </ol>
Accessway perimeter	1 canopy tree per 35 lf on each side of road, less widths of access drives.	Included in above		
Parking land banked	■ NA	No		

## Berms, Walls and ROW Planting Requirements

#### Berms

- All berms shall have a maximum slope of 33%. Gradual slopes are encouraged. Show 1ft. contours
- Berm should be located on lot line except in conflict with utilities.
- Berms should be constructed with 6" of top soil.

## Residential Adjacent to Non-residential (Sec 5.5.3.A) & (LDM 1.a)

Berm requirements (Zoning Sec 5.5.A)	Landscaped berm 4.5-6 feet high required abutting multi-family project west of site.	5-6 foot tall landscaped berm is provided along west property line	No	Please extend the berm further south, preferably to end at the wetland buffer but at least to the edge of the critical root zone of Tree #1573, to provide better screening of the parking lot from the residences southwest of the project.	
Planting requirements (LDM 1.a.)	LDM Novi Street Tree List	Berm is heavily landscaped with deciduous canopy trees	Yes		
Adjacent to Public Rights-of-Way (Sec 5.5.B) and (LDM 1.b)					
Berm requirements (Zoning Sec	An undulating berm a minimum of 3 feet high	No berms are provided.	No	Please provide the required berms	

Item	Required	Proposed	Meets Code	Comments
5.5.3.A.(5))	with a 3 foot wide crest is required between parking and right-of-way			along Grand River and Meadowbrook.  2. Due to the preservation of the wetland, a landscape waiver to not provide the required berm in that area of the Cherry Hill greenbelt is supported by staff.  3. Please provide the required berm along the eastern 350lf of Cherry Hill frontage. Currently, the deviation is not supported by staff. Please provide justification for this deviation.
Cross-Section of Berms	(LDM 2.j)			
Slope, height and width	<ul> <li>Label contour lines</li> <li>Maximum 33%</li> <li>Min. 3 feet flat horizontal area</li> <li>Minimum 3 feet high</li> <li>Constructed of loam with 6' top layer of topsoil.</li> </ul>	No		Please provide berm cross section that includes loam and topsoil callouts
Type of Ground Cover		Seed		
Setbacks from Utilities	Overhead utility lines and 15 ft. setback from edge of utility or 20 ft. setback from closest pole	NA		
Walls (LDM 2.k & Zoning	Sec 5.5.3.vi)			
Material, height and type of construction footing	Freestanding walls should have brick or stone exterior with masonry or concrete interior		TBD	Please indicate wall elevations and provide construction details.
Walls greater than 3 ½ ft. should be designed and sealed by an Engineer		No details provided		
ROW Landscape Scree	ning Requirements (Sec 5.5.	3.B. ii)		
Greenbelt width (2)(3) (5)	Parking: 20 ft. No Pkg: 25 ft	36 ft to parking 27 ft to building	Yes	

Item	Required	Proposed	Meets Code	Comments
Min. berm crest width	None	No	No	<ol> <li>An evergreen hedge is provided in lieu of berm along Meadowbrook and a small part of the Grand River frontage. Masonry walls are an allowed substitution for the berm, but hedges are the least preferred option as they don't provide the same permanent blockage as berms or walls do.</li> <li>Please provide justification for this alternative.</li> <li>No berm is provided along the Cherry Hill frontage. This deviation is supported for the section in the wetland/wetland buffer to preserve them, but is currently not supported for the eastern 350 feet of frontage.</li> <li>Please provide the required berm or provide justification for not providing it.</li> </ol>
Minimum berm height (9)	None	No	No	<ol> <li>See above.</li> <li>If hedge along         Meadowbrook is         permitted, it must be         maintained in a         continuous condition,         at a height of at least         36".</li> </ol>
3' wall	(4)(7)	No		
Canopy deciduous or large evergreen trees Notes (1) (10)	Parking: 1 tree per 35 lf  Meadowbrook: (288-30)/35 = 7 trees  Grand River: (90-40)/35 = 1 tree  No Pkg: 1 per 60 ft  Meadowbrook: 348/60	Meadowbrook: 11 new trees 1 existing tree Grand River: 1 deciduous canopy 4 large evergreens	No Yes Yes	<ol> <li>Please provide 1     more deciduous     canopy or large     evergreen tree along     the Meadowbrook     greenbelt.</li> <li>Please move the</li> </ol>

Item	Required	Proposed	Meets Code	Comments	
	<ul> <li>6 trees</li> <li>Grand River: 253/60= 4</li> <li>Cherry Hill: 370/60 = 6</li> <li>Total Requirement</li> <li>Meadowbrook: 13</li> <li>Grand River: 5</li> <li>Cherry Hill: 6</li> </ul>	Cherry Hill: 6 existing trees (total of 19 existing trees saved in greenbelt)		western greenbelt/ perimeter tree on the Meadowbrook entry out to between the parking lot and Meadowbrook. 3. Please replace the Bowhall Maple with a variety that has a minimum mature canopy width of at least 20 feet.	
Sub-canopy deciduous trees Notes (2)(10)	Parking: 1 tree per 20 If  Meadowbrook: (288-30)/20 = 13 trees Grand River: (90-40)/20 = 3 trees  No Pkg: 1 per 40 ft  Meadowbrook: 348/40 = 9 trees Grand River: 253/40 = 6 Cherry Hill: 370/40 = 9  Total Requirement  Meadowbrook: 22  Grand River: 9  Cherry Hill: 9	Meadowbrook: 20 new trees Grand River: 7 new trees Cherry Hill: 9 existing trees	No No Yes	<ol> <li>Please provide 2     more subcanopy     trees along     Meadowbrook</li> <li>Please provide 2     more subcanopy     trees along Grand     River</li> </ol>	
Canopy deciduous trees in area between sidewalk and curb (Novi Street Tree List)	Parking: 1 tree per 35 If  Meadowbrook: (288-62)/35 = 6 trees  Grand River: (90-40)/35 = 1 tree  No Pkg: 1 per 35 ft  Meadowbrook: 348/35 = 6 trees  Grand River: 253/35 = 4  Cherry Hill: 370/35 = 6  Total Requirement  Meadowbrook: 12  Grand River: 5  Cherry Hill: 6	Meadowbrook: 4 existing trees 12 new trees Grand River: 0 trees Cherry Hill: 0 trees	Yes No No	<ol> <li>Due to the ditch and utilities in the Grand River right-of-way, the landscape deviation to not provide those trees is supported by staff.</li> <li>Due to conflicts with the water main, ditch and wetland, there is no room for the street trees along Cherry Hill Road, so that deviation is supported by staff.</li> </ol>	
Non-Residential Zoning Sec 5.5.3.E.iii & LDM 1.d (2)  Refer to Planting in ROW, building foundation landscape, parking lot landscaping and LDM					
Interior Street to Industrial subdivision (LDM 1.d.(2))	<ul> <li>1 canopy deciduous or 1 large evergreen per 35 l.f. along ROW</li> <li>No evergreen trees closer than 20 ft.</li> <li>3 sub canopy trees per 40 l.f. of total linear frontage</li> </ul>	NA			

Item	Required	Proposed	Meets Code	Comments
	<ul><li>Plant massing for 25% of ROW</li></ul>			
Screening of outdoor storage, loading/unloading (Zoning Sec. 3.14, 3.15, 4.55, 4.56, 5.5)		Loading zone is on the south side of the building, but exposed to Meadowbrook.	No	Better screening of the loading zone from Meadowbrook should be provided.
Transformers/Utility boxes (LDM 1.e from 1 through 5)	<ul> <li>A minimum of 2ft. separation between box and the plants</li> <li>Ground cover below 4" is allowed up to pad.</li> <li>No plant materials within 8 ft. from the doors</li> </ul>	No	No	When transformer locations are finalized, screening shrubs per standard detail are required.
<b>Building Foundation Lar</b>	ndscape Requirements (Sec	c 5.5.3.D)		
Interior site landscaping SF	<ul> <li>Equals to entire perimeter of the building x 8 with a minimum width of 4 ft.</li> <li>A= 848 If x 8ft = 6784 SF</li> </ul>	A= 7151 sf	TBD	<ol> <li>Shaded areas indicate that sufficient area is provided.</li> <li>Please provide detailed planting plans for foundation planting with final site plans.</li> <li>Foundation plantings are to be included in cost estimate.</li> </ol>
Zoning Sec 5.5.3.D.ii. All items from (b) to (e)	If visible from public street a minimum of 60% of the exterior building perimeter should be covered in green space	It appears that 100% of the building frontages facing Grand River and Meadowbrook will be landscaped.	Yes	
Detention/Retention Basin Requirements (Sec. 5.5.3.E.iv)				
Planting requirements (Sec. 5.5.3.E.iv)	<ul> <li>Clusters shall cover 70-75% of the basin rim area</li> <li>10" to 14" tall grass along sides of basin</li> <li>Refer to wetland for basin mix</li> </ul>	It appears that at least 70% of the basin rims will be landscaped with large native shrubs.	Yes	<ol> <li>Please use straight species Rhus aromatica, not Grow Low.</li> <li>Please use a more equal split between the 3 species.</li> </ol>
Phragmites Control (Sec 5.5.6.C)	<ul> <li>Any and all populations of Phragmites australis on site shall be included on tree survey.</li> <li>Treat populations per MDEQ guidelines and</li> </ul>	None indicated	TBD	<ol> <li>Please survey the site for any populations of Phragmites australis and submit plans for its removal.</li> <li>If none is found, please indicate that</li> </ol>

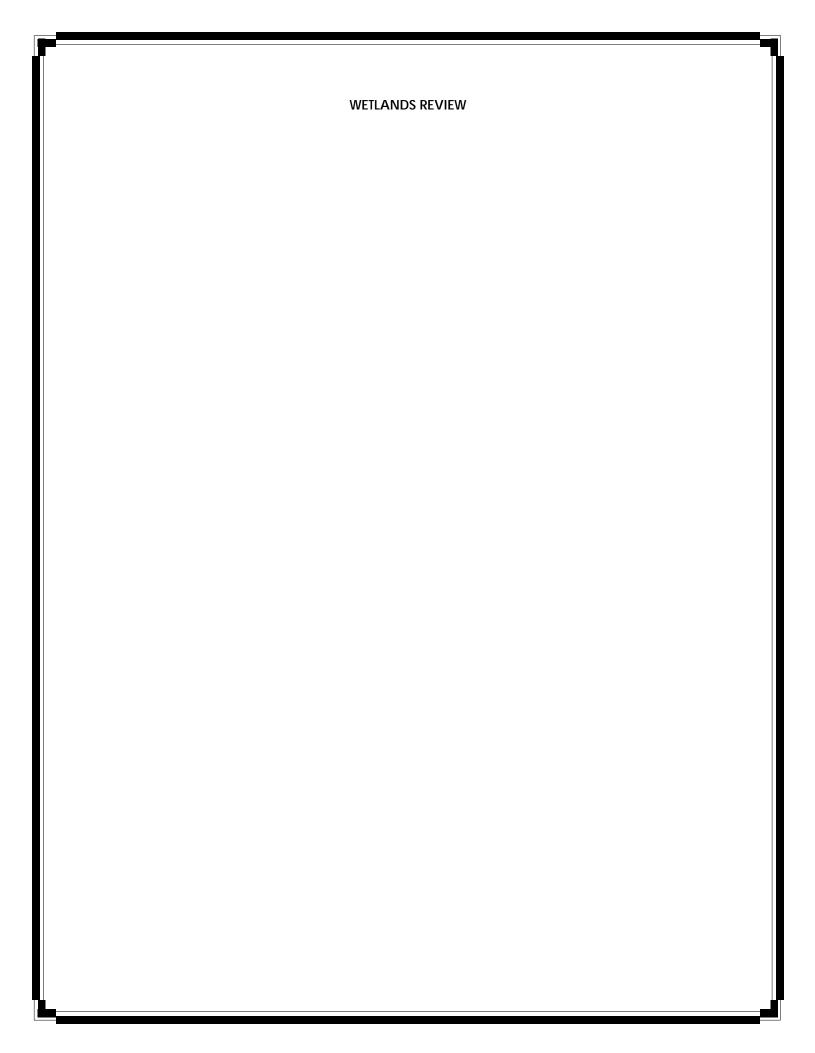
Item	Required	Proposed	Meets Code	Comments	
	requirements to eradicate the weed from the site.			on the survey.	
LANDSCAPING NOTES,	DETAILS AND GENERAL REQ	UIREMENTS			
•	ize City of Novi Standard No	otes			
Installation date (LDM 2.1. & Zoning Sec 5.5.5.B)	Provide intended date	Between Mar 15 and Nov 15.	Yes		
Maintenance & Statement of intent (LDM 2.m & Zoning Sec 5.5.6)	<ul> <li>Include statement of intent to install and guarantee all materials for 2 years.</li> <li>Include a minimum one cultivation in June, July and August for the 2-year warranty period.</li> </ul>	Yes	Yes		
Plant source (LDM 2.n & LDM 3.a.(2))	Shall be northern nursery grown, No.1 grade.	Yes	Yes		
Irrigation plan (LDM 2.s.)	A fully automatic irrigation system or a method of providing sufficient water for plant establishment and survival is required on Final Site Plans.	No	No	1. Please add irrigation plan or information as to how plants will be watered sufficiently for establishment and long-term survival.  2. If xeriscaping is used, please provide information about plantings included.	
Other information (LDM 2.u)	Required by Planning Commission	NA		Please change note #13 from one(1) year to three (3) months.	
Establishment period (Zoning Sec 5.5.6.B)	2 yr. Guarantee	Yes	Yes		
Approval of substitutions. (Zoning Sec 5.5.5.E)	City must approve any substitutions in writing prior to installation.	Yes	Yes		
Plant List (LDM 2.h.) – Include all cost estimates					
Quantities and sizes		Yes	Yes		
Root type		Yes	Yes		
Botanical and common names	Refer to LDM suggested plant list	Yes	Yes	<ol> <li>Tree diversity is good.</li> <li>24 of 30 species used are native to         Michigan.</li> <li>When foundation         plantings are added,         please ensure that at</li> </ol>	

Item	Required	Proposed	Meets Code	Comments
				least 50% of all species used, not including those in seed mixes, are native to Michigan.
Type and amount of lawn		Yes	Yes	Please use hatches that are easier to differentiate from each other.
Cost estimate (LDM 2.t)	For all new plantings, mulch and sod as listed on the plan	Yes	Yes	<ol> <li>Please add mulch to cost total at \$35/cyd</li> <li>Please change sod unit cost to \$6/sy</li> <li>All evergreen shrubs can be left at \$50 ea.</li> </ol>
Planting Details/Info (LE	OM 2.i) - Utilize City of Novi	Standard Details		
Canopy Deciduous Tree		Yes	Yes	
Evergreen Tree		Yes	Yes	
Shrub	Refer to LDM for detail	Yes	Yes	
Perennial/ Ground Cover	drawings	Yes	Yes	
Tree stakes and guys. (Wood stakes, fabric guys)		Yes	Yes	
Tree protection fencing	Located at Critical Root Zone (1' outside of dripline)	Yes	Yes	
Other Plant Material Re				
General Conditions (LDM 3.a)	Plant materials shall not be planted within 4 ft. of property line	Yes	Yes	
Plant Materials & Existing Plant Material (LDM 3.b)	Clearly show trees to be removed and trees to be saved.	Yes	Yes	
Landscape tree credit (LDM3.b.(d))	Substitutions to landscape standards for preserved canopy trees outside woodlands/ wetlands should be approved by LA. Refer to Landscape tree Credit Chart in LDM	No		
Plant Sizes for ROW, Woodland replacement and others (LDM 3.c)	2.5" canopy trees 6' evergreen trees		Yes	

Item	Required	Proposed	Meets Code	Comments
Plant size credit (LDM3.c.(2))	NA	No		
Prohibited Plants (LDM 3.d)	No plants on City Invasive Species List	None		
Recommended trees for planting under overhead utilities (LDM 3.e)	Label the distance from the overhead utilities	Overhead lines are clearly marked.	Yes	
Collected or Transplanted trees (LDM 3.f)		No		
Nonliving Durable Material: Mulch (LDM 4)	<ul> <li>Trees shall be mulched to 3"depth and shrubs, groundcovers to 2" depth</li> <li>Specify natural color, finely shredded hardwood bark mulch. Include in cost estimate.</li> <li>Refer to section for additional information</li> </ul>	Yes	Yes	

### NOTES:

- 1. This table is a working summary chart and not intended to substitute for any Ordinance or City of Novi requirements or standards.
- 2. The section of the applicable ordinance or standard is indicated in parenthesis. For the landscape requirements, please see the Zoning Ordinance landscape section 5.5 and the Landscape Design Manual for the appropriate items under the applicable zoning classification.
- 3. Please include a written response to any points requiring clarification or for any corresponding site plan modifications to the City of Novi Planning Department with future submittals.





August 29, 2018 ECT No. 180530-0100

Ms. Barbara McBeth, AICP City Planner Community Development Department City of Novi 45175 W. Ten Mile Road Novi, Michigan 48375

Re: Jaguar/Land Rover (JSP17-0065)

Wetland Review of the SDO Concept Plan (PSP18-0125)

Dear Ms. McBeth:

Environmental Consulting & Technology, Inc. (ECT) has reviewed the SDO Concept Plan for the proposed Jaguar/Land Rover project prepared by PEA, Inc. dated August 8, 2018 and stamped "Received" by the City of Novi Community Development Department on August 9, 2018 (Plan). The Plan was reviewed for conformance with the City of Novi Wetland and Watercourse Protection Ordinance and the natural features setback provisions in the Zoning Ordinance. In addition, ECT conducted an on-site wetland boundary verification inspection at this site on November 23, 2016.

ECT recommends approval of the SDO Concept Plan for Wetlands; however, the Applicant should address the items noted in the *Wetland Comments* Section of this letter prior to receiving Wetland approval of the Final Site Plan.

The following wetland related items are required for this project:

Item	Required/Not Applicable			
Wetland Permit (specify Non-Minor or Minor)	Not Required			
Wetland Mitigation	Not Required			
Wetland Buffer Authorization	Required			
MDEQ Permit	Not Likely Required			
Wetland Conservation Easement	Required			

The proposed development is located west of Meadowbrook Road between Cherry Hill and Grand River Avenue in Section 23. The overall project site area is approximately 9.5 acres and is currently vacant (Parcels 22-23-251-018 and 22-23-251-019). Based on historic aerial photos, the majority of this site has been previously disturbed (cleared/graded) in the past. The project includes the construction of a 53,211 square foot automotive facility, associated parking areas and driveways, utilities as well as a storm water detention basin that appears to outlet to the City of Novi storm sewer system along Meadowbrook Road. Based on our review of the Plan, Novi aerial photos, Novi GIS, and the City of Novi Official Wetlands and Woodlands Maps (see Figure 1); it appears as if this proposed project site contains both City-Regulated Wetlands and Regulated Woodlands.

2200 Commonwealth Blvd., Suite 300 Ann Arbor, MI 48105

> (734) 769-3004

FAX (734) 769-3164 Jaguar/Land Rover (JSP17-0065) Wetland Review of the SDO Concept Plan (PSP18-0125) August 29, 2018 Page 2 of 8

### Wetland Evaluation

ECT conducted a wetland evaluation for the proposed site on November 23, 2016. The focus of the site inspection was to review site conditions in order to determine whether any on-site wetlands are regulated by the City of Novi including whether wetlands meet the City of Novi's Wetland Essentiality Criteria. One (1) area of wetland (i.e., Wetland A) is indicated on the Wetland Location Map (i.e., Figure 2). This wetland area was marked in the field with survey tape flags at the time of our inspection. The Wetland Location Map (Figure 2) indicate the approximate location of Wetland A but does not indicate the 25-foot wetland buffer/setback boundary.

On August 11, 2016 Niswander Environmental conducted a wetland delineation on the property. It is Niswander's opinion that Wetland A is likely not regulated by MDEQ due to the fact that it is less than 5 acres in size and is not hydrologically connected to any nearby bodies of water. They state that the City of Novi would regulate Wetland A under the "essential to the preservation of the natural resources of the City" clause in the wetland protection ordinance.

Wetland A is a small emergent/scrub-shrub wetland located in the southern portion of the Property, along a drainage ditch that extends east/west along Cherry Hill Road (Figure 2). Northern portions of this 0.48-acre wetland extend into a section of wooded area that contains common buckthorn (*Rhamnus cathartica*), multiflora rose (*Rosa multiflora*), grapevine (*Vitis riparia*), and honeysuckle (*Lonicera tatarica*). The wetland is dominated primarily by invasive reed canary grass (*Phalaris arundinacea*), although other species such as sandbar willow (*Salix exigua*), cattail (*Typha angustifolia*), glossy buckthorn (*Frangula alnus*), swamp milkweed (*Asclepias incarnata*), joe pye weed (*Eupatorium maculatum*), and sapling ash (*Fraxinus pennsylvanica*) and elm (*Ulmus americana*) are also present).

The southern portion of Wetland A (i.e., ditch along north side of Cherry Hill Road) is a shallow, narrow roadside ditch. Much of the vegetation within this ditch consists of reed canary grass, buckthorn, grapevine, and rice cutgrass.

The adjacent upland area consists of what appears to be area that has been previously disturbed. Areas of fairly sparse trees and shrubs exist throughout this upland area.

ECT has verified that the Wetland A boundaries appear to be accurately flagged in the field and depicted on the Wetland Location Map. It can be noted that the City of Novi's Regulated Wetland Map (Figure 1) is not accurate in indicating the location of wetland on the subject property. The Wetland Location Map provided by Niswander Environmental (Figure 2) does appear to accurately portray the existing wetland location.

### Proposed Wetland Impacts

As noted above, the Plan indicates one (1) area of wetland on this site located along the southern boundary of the subject site. Portions of this wetland area appear to be included on the City of *Novi Regulated Wetlands and Watercourse Map* (see Figure 1, attached). **The current Plan does not appear to propose any impacts to the existing wetland.** 

With regard to the 25-foot wetland setbacks, the Plan appears to propose encroachment into the 25-foot wetland buffer south of the proposed detention basin for the purpose of constructing the stormwater outlet pipe (30" diameter concrete pipe). These impacts have not been indicated or quantified on the current Plan. The Applicant shall indicate, quantify (square feet or acres of fill or excavation within the wetland buffer



Jaguar/Land Rover (JSP17-0065) Wetland Review of the SDO Concept Plan (PSP18-0125) August 29, 2018 Page 3 of 8

limits, if applicable) on subsequent plan submittals. The City of Novi regulates a 25-foot buffer surrounding all wetland and watercourses.

### Regulatory Status - MDEQ

ECT has evaluated the on-site wetlands and believes that they are considered to be essential/regulated by the City of Novi as they meet one or more of the essentiality criteria (i.e., functions and values) outlined in the City of Novi Wetland and Watercourse Protection Ordinance. As noted, the wetlands appear to accurately flagged in the field and appear to indicated accurately on the Plans however, the wetland flag numbers shall be provided on an appropriate sheet on the Plan (wetland plan or existing conditions plan, etc.).

The Michigan Department of Environmental Quality (MDEQ) generally regulates wetlands that are within 500 feet of an inland lake, pond, or stream, or within 1,000 feet of a Great Lake, Lake St. Clair, the St. Clair River, or the Detroit River. Isolated wetlands five (5) acres in size or greater are also regulated. The MDEQ may also exert regulatory control over isolated wetlands less than five acres in size "...if the department determines that protection of the area is essential to the preservation of the natural resources of the state from pollution, impairment, or destruction and the department has notified the owner".

Should the applicant propose impacts to the on-site wetlands, it will be their responsibility to contact MDEQ to determine the regulatory status of the on-site wetlands. If wetland impacts are proposed, the applicant shall provide correspondence with the MDEQ such as a wetland permit application, wetland permit, wetland assessment, or Letter of No Jurisdiction. It appears as if the on-site wetlands could be MDEQ-regulated. Subject to MDEQ concurrence, a MDEQ Wetland Use Permit will need to be on file prior to the issuance of a City Wetland Use Permit. A City of Novi Wetland Permit cannot be issued prior to receiving this information.

### Regulatory Status - City of Novi

The City of Novi Wetland and Watercourse Protection Ordinance (City of Novi Code of Ordinances, Part II, Chapter 12, Article V.; Division 2.) describes the regulatory criteria for wetlands and review standards for wetland permit applications. The City of Novi regulates wetlands that are: (1) contiguous to a lake, pond, river or stream, as defined in Administrative Rule 281.921; (2) two (2) acres in size or greater; or (3) less than two (2) acres in size but deemed essential to the preservation of the natural resources of the city under the criteria set forth in subsection 12-174(b). Wetlands deemed regulated by the City of Novi require the approval of a use permit for any proposed impacts to the wetland.

ECT has evaluated the areas of on-site wetland and believes the wetlands are regulated by the City's Wetland and Watercourse Protection Ordinance because they meet one or more of the essentiality criteria in the Ordinance (i.e., stormwater storage and wildlife habitat).

It should be noted that in those cases where an activity results in the impact to wetland areas of 0.25-acre or greater that are deemed essential under City of Novi Ordinance subsection 12-174(b) mitigation shall be required. The applicant shall submit a mitigation plan which provides for the establishment of replacement wetlands at a ratio of 1:1 through 2:1 times the area of the natural wetland impaired or destroyed, if impacts meet or exceed the 0.25-acre threshold. In general, the MDEQ's threshold for the requirement of wetland mitigation is 0.3-acre of wetland impacts. The current Plan does not appear to propose wetland impacts and mitigation will not be a requirement for this project.



Jaguar/Land Rover (JSP17-0065) Wetland Review of the SDO Concept Plan (PSP18-0125) August 29, 2018 Page 4 of 8

As noted above, any proposed use of the wetlands will require a City of Novi Wetland Use Permit as well as an Authorization to Encroach the 25-Foot Natural Features Setback for any proposed impacts to the 25-foot wetland buffers. The applicant is urged to minimize impacts to on-site wetlands and wetland setbacks to the greatest extent practicable. The City regulates wetland buffers/setbacks. Article 24, Schedule of Regulations, of the Zoning Ordinance states that:

"There shall be maintained in all districts a wetland and watercourse setback, as provided herein, unless and to the extent, it is determined to be in the public interest not to maintain such a setback. The intent of this provision is to require a minimum setback from wetlands and watercourses".

### Wetland Comments

Please consider the following comments when preparing subsequent site plan submittals:

- 1. It does not appear as though a MDEQ Wetland Permit or City of Novi Wetland Use Permit would be required as there do not appear to be proposed wetland impacts.
  - A City of Novi *Authorization to Encroach the 25-Foot Natural Features Setback* would be required for any proposed impacts to on-site 25-foot wetland buffers. There appear to be wetland buffer impacts proposed for the construction of the outlet from the proposed stormwater detention basin.
- 2. ECT encourages the Applicant to minimize impacts to on-site wetlands and 25-foot wetland setbacks to the greatest extent practicable. The Applicant should consider modification of the proposed site design to preserve all wetland and wetland buffer areas. Specifically, the applicant shall work to avoid any proposed encroachment into the 25-foot wetland buffer for the purpose constructing the proposed stormwater detention basin. The City regulates wetland buffers/setbacks. Article 24, Schedule of Regulations, of the Zoning Ordinance states that:

"There shall be maintained in all districts a wetland and watercourse setback, as provided herein, unless and to the extent, it is determined to be in the public interest not to maintain such a setback. The intent of this provision is to require a minimum setback from wetlands and watercourses".

- 3. The applicant should clearly show and label any wetland *and* 25-foot natural features setback (buffer) boundaries on all future plan submittals. In addition, please provide on the Plan, the date that the original wetland delineation was conducted.
- 4. The on-site acreages for all existing wetland areas and associated 25-foot wetland setback areas should be indicated on the Plan.
- 5. The areas (square feet or acres) of all proposed impacts to the 25-foot wetland buffer (both permanent and/or temporary) shall be clearly indicated on the Plan.
- 6. The Plan should address how any temporary impacts to wetland buffers shall be restored, if applicable. A proposed seed mix should be provided on the Plan for restoration of these wetland buffer areas. Sod or common grass seed will not be authorized in these areas.
- 7. The Applicant is encouraged to provide wetland conservation easements for any areas of remaining wetland or 25-foot wetland buffer. The Applicant shall provide wetland conservation easements as directed by the City of Novi Community Development Department for any areas of remaining wetland



Jaguar/Land Rover (JSP17-0065) Wetland Review of the SDO Concept Plan (PSP18-0125) August 29, 2018 Page 5 of 8

as well as for any proposed wetland mitigation areas (if necessary). A Conservation Easement shall be executed covering all remaining wetland areas on site as shown on the approved plans. This language shall be submitted to the City Attorney for review. The executed easement must be returned to the City Attorney within 60 days of the issuance of the City of Novi Wetland and Watercourse permit.

8. Should impact to the wetland area be proposed, the applicant shall provide correspondence from the MDEQ clarifying the regulatory status of Wetland A. A City of Novi Wetland Permit cannot be issued prior to receiving this information.

### Recommendation

ECT recommends approval of the SDO Concept Plan for Wetlands; however, the Applicant should address the items noted in the *Wetland Comments* Section of this letter prior to receiving Wetland approval of the Final Site Plan.

If you have any questions regarding the contents of this letter, please contact us.

Sincerely,

ENVIRONMENTAL CONSULTING & TECHNOLOGY, INC.

Peter Hill, P.E.

Senior Associate Engineer

cc: Lindsay Bell, City of Novi Planner

Sri Komaragiri, City of Novi Planner

Rick Meader, City of Novi Landscape Architect Hannah Smith, City of Novi Planning Assistant

Attachments: Figure 1. City of Novi Regulated Wetland & Woodland Map

Figure 2. Wetland Locations Map

Site Photos





**Figure 1**. City of Novi Regulated Wetland & Woodland Map (approximate project boundary shown in red). Regulated Woodland areas are shown in green and Regulated Wetland areas are shown in blue.





Figure 2. Wetland Location Map (figure provided by Niswander Environmental).



### Site Photos

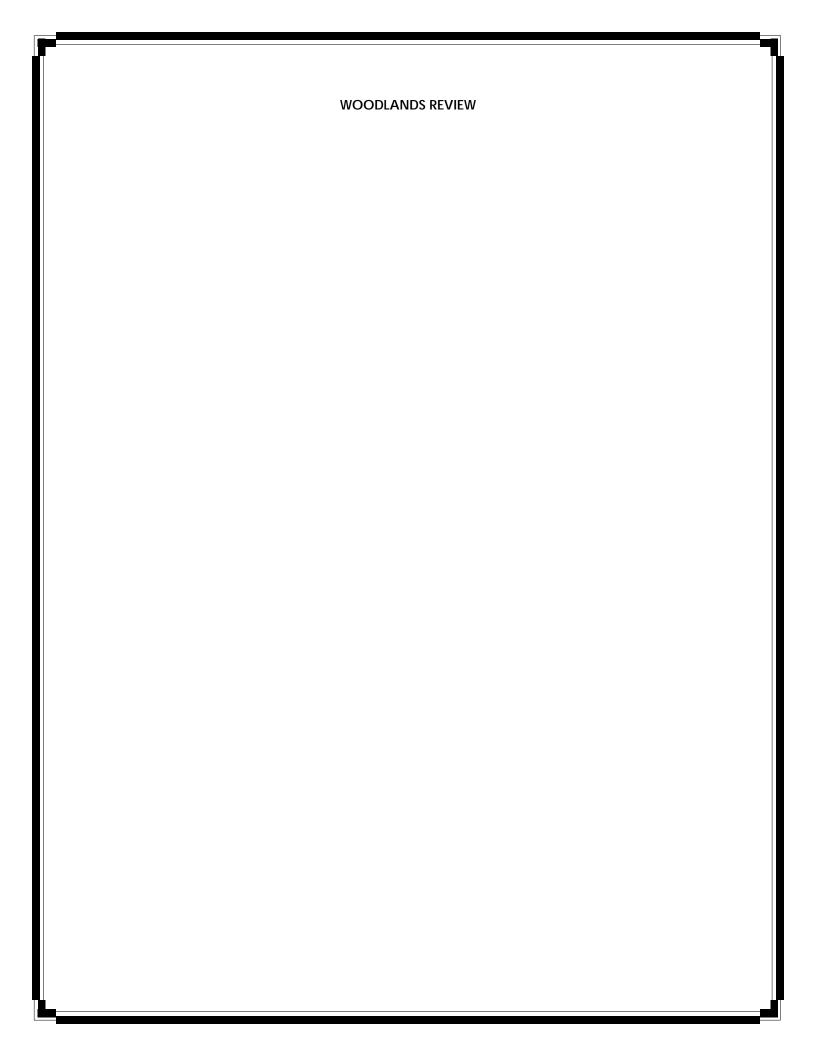


**Photo 1**. Looking northeast towards Meadowbrook Road and Wetland Flags A-19 and A-20 (ECT, November 23, 2016).



Photo 2. Looking north at Wetland A near the southwest corner of the site (ECT, November 23, 2016).







August 29, 2018 ECT No. 180530-0200

Ms. Barbara McBeth, AICP City Planner Community Development Department City of Novi 45175 West Ten Mile Road Novi, MI 48375

Re: Jaguar/Land Rover (JSP17-0065)

Woodland Review of the SDO Concept Plan (PSP18-0125)

Dear Ms. McBeth:

Environmental Consulting & Technology, Inc. (ECT) has reviewed the SDO Concept Plan for the proposed Jaguar/Land Rover project prepared by PEA, Inc. dated August 8, 2018 and stamped "Received" by the City of Novi Community Development Department on August 9, 2018 (Plan). The Plan was reviewed for conformance with the City of Novi Woodland Protection Ordinance Chapter 37.

ECT recommends approval of the SDO Concept Plan for Woodlands; however, the Applicant should address the items noted in the *Woodland Comments* Section of this letter prior to receiving Woodland approval of the Final Site Plan.

The following woodland related items are required for this project:

Item	Required/Not Required/Not Applicable				
Woodland Permit	Required				
Woodland Fence	Required				
Woodland Conservation Easement	Required				

The proposed development is located west of Meadowbrook Road between Cherry Hill and Grand River Avenue in Section 23. The overall project site area is approximately 9.5 acres and is currently vacant (Parcels 22-23-251-018 and 22-23-251-019). Based on historic aerial photos, the majority of this site has been previously disturbed (cleared/graded) in the past. The project includes the construction of a 53,211 square foot automotive facility, associated parking areas and driveways, utilities as well as a storm water detention basin that appears to outlet to the City of Novi storm sewer system along Meadowbrook Road. Based on our review of the Plan, Novi aerial photos, Novi GIS, and the City of Novi Official Wetlands and Woodlands Maps (see Figure 1); it appears as if this proposed project site contains both City-Regulated Wetlands and Regulated Woodlands.

ECT recommends that we conduct a woodland field evaluation at the time of Preliminary Site Plan submittal in order to verify the existing on-site woodland information (tree sizes, species, conditions, etc.). A tree survey has been completed for the site and is included with the current Plan.

The purpose of the Woodlands Protection Ordinance is to:

2200 Commonwealth Blvd., Suite 300 Ann Arbor, MI 48105

> (734) 769-3004

FAX (734) 769-3164 Jaguar/Land Rover (JSP17-0065) Woodland Review of the SDO Concept Plan (PSP18-0125) August 29, 2018 Page 2 of 9

- 1) Provide for the protection, preservation, replacement, proper maintenance and use of trees and woodlands located in the city in order to minimize disturbance to them and to prevent damage from erosion and siltation, a loss of wildlife and vegetation, and/or from the destruction of the natural habitat. In this regard, it is the intent of this chapter to protect the integrity of woodland areas as a whole, in recognition that woodlands serve as part of an ecosystem, and to place priority on the preservation of woodlands, trees, similar woody vegetation, and related natural resources over development when there are no location alternatives;
- 2) Protect the woodlands, including trees and other forms of vegetation, of the city for their economic support of local property values when allowed to remain uncleared and/or unharvested and for their natural beauty, wilderness character of geological, ecological, or historical significance; and
- 3) Provide for the paramount public concern for these natural resources in the interest of health, safety and general welfare of the residents of the city.

As noted in the City's Woodlands Ordinance (Section 37-4, Applicability):

Where uncertainty exists with respect to the boundaries of designated woodland areas shown on the regulated woodland map, the following rules shall apply:

- Distances not specifically indicated on the map shall be determined by the scale on the map;
- Where physical or natural features existing on the ground are at variance with those shown on the regulated woodland
  map, or in other circumstances where uncertainty exists, the community development director or his or her designee
  shall interpret the woodland area boundaries;
- On any parcel containing any degree of regulated woodland, the applicant shall provide site plan documentation showing the locations, species, size and condition of all trees of eight-inch caliper or larger. Existing site understory trees, shrubs and ground cover conditions must be documented on the site plan or woodland use permit application plan in the form of a brief narrative. The woodland conditions narrative should include information regarding plant species, general quantities and condition of the woodland vegetation.

It is ECT's assessment that the existing woodland areas located on the subject site should all be considered regulated.

It should be noted that the purpose of the City of Novi Woodland Protection Ordinance (Chapter 37) is to:

- 1. Provide for the protection, preservation, replacement, proper maintenance and use of trees and woodlands located in the city in order to minimize disturbance to them and to prevent damage from erosion and siltation, a loss of wildlife and vegetation, and/or from the destruction of the natural habitat. In this regard, it is the intent of this chapter to protect the integrity of woodland areas as a whole, in recognition that woodlands serve as part of an ecosystem, and to place priority on the preservation of woodlands, trees, similar woody vegetation, and related natural resources over development when there are no location alternatives;
- 2. Protect the woodlands, including trees and other forms of vegetation, of the city for their economic support of local property values when allowed to remain uncleared and/or unharvested and for their natural beauty, wilderness character of geological, ecological, or historical significance; and



Jaguar/Land Rover (JSP17-0065) Woodland Review of the SDO Concept Plan (PSP18-0125) August 29, 2018 Page 3 of 9

3. Provide for the paramount public concern for these natural resources in the interest of health, safety and general welfare of the residents of the city.

What follows is a summary of our review of the woodland information provided on the Plan.

### On-Site Woodland Evaluation

ECT has reviewed the City of Novi Official Woodlands Map and previously completed an on site Woodland Evaluation on November 23, 2016. As noted above, ECT will conduct a woodland field evaluation at the time of Preliminary Site Plan submittal in order to verify the existing on-site wetland boundaries and any changes to the available woodland information (tree sizes, species, conditions, etc.). ECT's in-office review of available materials included the City of Novi Regulated Woodland map and other available mapping. The subject property includes area that is indicated as City-regulated woodland on the official City of Novi Regulated Wetland and Watercourse Map (see Figure 1). The areas designated as City Regulated Woodlands are located in the southwest section of the site.

An existing tree survey has been completed for the site and a *Tree Preservation List* is included as Sheet T-1.1. This sheet identifies tree tag numbers, diameter-at-breast-height (DBH), common/botanical name, condition, and removal status. The applicant should include a column for woodland replacements required for the proposed tree removals in this list. In general, the on-site trees consist of eastern cottonwood (*Populus deltoides*), black locust (*Robinia pseudoacacia*), box elder (*Acer negundo*), black walnut (*Juglans nigra*), white willow (*Salix alba*), American elm (*Ulmus americana*), green ash (*Fraxinus pennsylvanica*), and silver maple (*Acer saccharinum*).

In terms of habitat quality and diversity of tree species, the overall subject site consists of trees in good condition. In terms of a scenic asset, wildlife habitat, windblock, noise buffer or other environmental asset, the forested areas located on the subject site appear to be considered to be of fair to good quality. There are a significant number of trees to be removed for the proposed development.

### Proposed Woodland Impacts and Replacements

A review of the Plan (Tree Preservation Plan & Tree Preservation List) indicates the following:

• Total Trees Surveyed: 310

• Total Trees Removed: 149 (48% of total trees surveyed)

The *Tree Preservation Plan* (Sheet T-1.0) notes that **172** Woodland Replacement Tree credits are required and that a total of **172** on-site Woodland Replacement Tree credits are proposed with a mix of canopy (deciduous) trees and evergreen trees.

The Plan includes a *Tree Plant List* on Sheet T-1.0, that lists the species of the proposed Woodland Replacement Trees; however it does not currently appear to specify the quantity of each species that will be used as Woodland Replacement tree credits. The applicant should, for example, specify how many of the 28 hophornbeam listed in the list are Woodland Replacement Trees as opposed to Perimeter Parking Lot or Landscape trees, etc. All of the tree species proposed as Woodland Replacement Tree material appears to be acceptable per the City's Woodland Tree Replacement Chart, however, the applicant shall specify the thornless honeylocust (*Gleditsia triacanthos inermis*) on the Plan.

It is recommended that the applicant provide a table that specifically describes the species and quantities of proposed Woodland Replacement trees. It should also be noted that all deciduous replacement trees shall



Jaguar/Land Rover (JSP17-0065) Woodland Review of the SDO Concept Plan (PSP18-0125) August 29, 2018 Page 4 of 9

be two and one-half (2 ½) inches caliper or greater and count at a 1-to-1 replacement ratio. All coniferous replacement trees shall be 6-feet in height (minimum) and provide 1.5 trees-to-1 replacement credit replacement ratio (i.e., each coniferous tree planted provides for 0.67 credits). The "upsizing" of Woodland Replacement trees for additional Woodland Replacement credit is not supported by the City of Novi. Finally, all proposed Woodland Replacement tree material shall meet the species requirements in the *Woodland Tree Replacement Chart* (attached).

The Woodland Replacement trees are proposed around the stormwater detention basin, along the west edge of the property, near the loading zone, and within several parking lot islands. The location of the trees in the parking lot islands and perhaps near the loading zone is not consistent with the intent of the Woodland Ordinance in mitigating for the loss of woodland tree canopy. In addition, it is not clear how these replacement trees will be protected in perpetuity through a landscape or woodland easement. ECT suggests that these proposed Woodland Replacement Trees be relocated to another area of the site that can more easily be placed into such an easement. The Ordinance states that the location of replacement trees shall be such as to provide the optimum enhancement, preservation and protection of woodland areas. Where woodland densities permit, tree relocation or replacement shall be within the same woodland areas as the removed trees. Such woodland replanting shall not be used for the landscaping requirements of the subdivision ordinance or the zoning landscaping, Section 2509. Where replacements are installed in a currently non-regulated woodland area on the project property, appropriate provision shall be made to guarantee that the replacement trees shall be preserved as planted, such as through a conservation or landscape easement to be granted to the city. Such easement or other provision shall be in a form acceptable to the city attorney and provide for the perpetual preservation of the replacement trees and related vegetation. The applicant shall demonstrate that all proposed Woodland Replacement Trees will be guaranteed to be preserved as planted within a conservation easement or landscape easement to be granted to the City.

### City of Novi Woodland Review Standards and Woodland Permit Requirements

Based on Section 37-29 (*Application Review Standards*) of the City of Novi Woodland Ordinance, the following standards shall govern the grant or denial of an application for a use permit required by this article:

No application shall be denied solely on the basis that some trees are growing on the property under consideration. However, the protection and conservation of irreplaceable natural resources from pollution, impairment, or destruction is of paramount concern. Therefore, the preservation of woodlands, trees, similar woody vegetation, and related natural resources shall have priority over development when there are location alternatives.

In addition,

"The removal or relocation of trees shall be limited to those instances when necessary for the location of a structure or site improvements and when no feasible and prudent alternative location for the structure or improvements can be had without causing undue hardship".

A Woodland Permit from the City of Novi would be required for proposed impacts to any trees 8-inch diameter-at-breast-height (DBH) or greater located within those areas designated as Regulated Woodland Areas or impacts to any tree 36" DBH or greater regardless of location. Such trees shall be relocated or replaced by the permit grantee.



Jaguar/Land Rover (JSP17-0065) Woodland Review of the SDO Concept Plan (PSP18-0125) August 29, 2018 Page 5 of 9

### Woodland Comments

Please consider the following comments when preparing subsequent site plan submittals:

- 1. ECT encourages the Applicant to minimize impacts to on-site woodlands to the greatest extent practicable. Currently, the Plan proposes to remove **149** of the **310** surveyed trees (48% of the on-site regulated trees). The current required Woodland Replacement Credit quantity is **172** Woodland Replacement Credits.
- 2. The Plan includes a *Tree Plant List* on Sheet T-1.0, that lists the species of the proposed Woodland Replacement Trees; however it does not currently appear to specify the quantity of each species that will be used as Woodland Replacement tree credits. The applicant should, for example, specify how many of the 28 hophornbeam listed in the list are Woodland Replacement Trees as opposed to Perimeter Parking Lot or Landscape trees, etc.
- 3. For trees proposed for removal, the Tree Plant List should include a column indicating the number of Woodland Replacement Credits Required.
- 4. All of the tree species proposed as Woodland Replacement Tree material appears to be acceptable per the City's Woodland Tree Replacement Chart, however, the applicant shall specify the thornless honeylocust (*Gleditsia triacanthos inermis*) on the Plan.
- 5. A Woodland Permit from the City of Novi would be required for proposed impacts to any trees 8-inch diameter-at-breast-height (DBH) or greater and located within an area designated as City Regulated Woodland, or any tree 36-inches DBH regardless of location on the site. Such trees shall be relocated or replaced by the permit grantee. All deciduous replacement trees shall be two and one-half (2 ½) inches caliper or greater and count at a 1-to-1 replacement ratio and all coniferous replacement trees shall be six (6) feet in height (minimum) and count at a 1.5-to-1 replacement ratio. All Woodland Replacement trees shall be species that are listed on the City's Woodland Tree Replacement Chart (attached).
- 6. A Woodland Replacement Performance financial guarantee for the planting of replacement trees will be required. This financial guarantee will be based on the number of on-site woodland replacement trees (credits) being provided at a per tree value of \$400. In this case, the Woodland Replacement Performance Guarantee would be \$68,800 (172 Woodland Replacement Credits Required x \$400/Credit). Based on a successful inspection of the installed on-site Woodland Replacement trees, the original Woodland Financial Guarantee shall be returned to the Applicant. Twenty-five percent (25%) of the value of the Woodland Replacement material shall be kept for a period of 2-years after the successful inspection of the tree replacement installation as a Woodland Maintenance and Guarantee Bond. This Woodland Maintenance and Guarantee Bond value is to be \$17,200.
- 7. If applicable, Woodland Replacement material should not be located 1) within 10' of built structures or the edges of utility easements and 2) over underground structures/utilities or within their associated easements. In addition, replacement tree spacing should follow the *Plant Material Spacing Relationship Chart for Landscape Purposes* found in the City of Novi Landscape Design Manual.



Jaguar/Land Rover (JSP17-0065) Woodland Review of the SDO Concept Plan (PSP18-0125) August 29, 2018 Page 6 of 9

- 8. If applicable, the Applicant will be required to pay the City of Novi Tree Fund at a value of \$400/credit for any Woodland Replacement tree credits that are proposed on-site that cannot be placed on-site at the time of landscaping.
- 9. The applicant currently proposes to provide 172 Woodland Replacement Credits on site. The Applicant shall provide preservation/conservation easements as directed by the City of Novi Community Development Department for any areas of woodland replacement trees. The applicant shall demonstrate that the all proposed woodland replacement trees will be guaranteed to be preserved as planted with a conservation easement or landscape easement to be granted to the city. This language shall be submitted to the City Attorney for review. The executed easement must be returned to the City Attorney within 60 days of the issuance of the City of Novi Woodland permit. The applicant shall clearly indicate the proposed conservation easement boundaries on the Plan.
- 10. As noted, some of the proposed Woodland Replacement trees are within the parking lot or close to the proposed loading zone. The location of these trees is not consistent with the intent of the Woodland Ordinance in mitigating for the loss of woodland tree canopy. ECT suggests that these proposed Woodland Replacement Trees be relocated to another area of the site that can more easily be placed into a conservation easement.

### Woodland Recommendation

ECT recommends approval of the SDO Concept Plan for Woodlands; however, the Applicant should address the items noted in the *Woodland Comments* Section of this letter prior to receiving Woodland approval of the Final Site Plan.

If you have any questions regarding the contents of this letter, please contact us.

Respectfully submitted,

ENVIRONMENTAL CONSULTING & TECHNOLOGY, INC.

Pete Hill, P.E.

Senior Associate Engineer

the Hell

cc: Lindsay Bell, City of Novi Planner

Sri Komaragiri, City of Novi Planner Rick Meader, City of Novi Landscape Architect

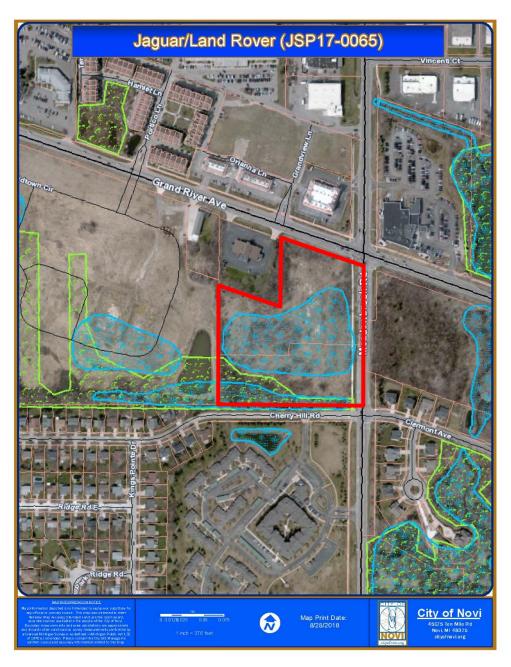
Hannah Smith, City of Novi Planning Assistant

Attachments: Figure 1 – City of Novi Regulated Wetland & Woodland Map

Woodland Tree Replacement Chart

Site Photos





**Figure 1**. City of Novi Regulated Wetland & Woodland Map (approximate project boundary shown in red). Regulated Woodland areas are shown in green and Regulated Wetland areas are shown in blue.



Jaguar/Land Rover (JSP17-0065) Woodland Review of the SDO Concept Plan (PSP18-0125) August 29, 2018 Page 8 of 9

Woodland Tree Replacement Chart (from Chapter 37 Woodlands Protection)
(All canopy trees to be 2.5" cal or larger, evergreens as listed)

Common Name	Botanical Name	
Black Maple	Acer nigrum	
Striped Maple	Acer pennsylvanicum	
Red Maple	Acer rubrum	
Sugar Maple	Acer saccharum	
Mountain Maple	Acer spicatum	
Ohio Buckeye	Aesculus glabra	
Downy Serviceberry	Amelanchier arborea	
Smooth Shadbush	Amelanchier laevis	
Yellow Birch	Betula alleghaniensis	
Paper Birch	Betula papyrifera	
American Hornbeam	Carpinus caroliniana	
Bitternut Hickory	Carya cordiformis	
Pignut Hickory	Carya glabra	
Shagbark Hickory	Carya ovata	
Northern Hackberry	Celtis occidentalis	
Eastern Redbud	Cercis canadensis	
Pagoda Dogwood	Cornus alternifolia	
Flowering Dogwood	Cornus florida	
American Beech	Fagus grandifolia	
Thornless Honeylocust	Gleditsia triacanthos inermis	
Kentucky Coffeetree	Gymnocladus diocus	
Walnut	Juglans nigra or Juglans cinerea	
Eastern Larch	Larix laricina	
Tuliptree	Liriodendron tulipfera	
Tupelo	Nyssa sylvatica	
American Hophornbeam	Ostrya virginiana	
White Spruce_(1.5:1 ratio) (6' ht.)	Picea glauca	
Black Spruce_(1.5:1 ratio) (6' ht.)	Picea mariana	
Red Pine_(1.5:1 ration) (6' ht.)	Pinus resinosa	
White Pine_(1.5:1 ratio) (6' ht.)	Pinus strobus	
American Sycamore	Platanus occidentalis	
Black Cherry	Prunus serotina	
White Oak	Quercus alba	
Swamp White Oak	Quercus bicolor	
Scarlet Oak	Quercus coccinea	
Shingle Oak	Quercus imbricaria	
Burr Oak	Quercus macrocarpa	
Chinkapin Oak	Quercus muehlenbergii	
Red Oak	Quercus rubra	
Black Oak	Quercus velutina	
American Basswood	Tilia americana	



### Site Photos

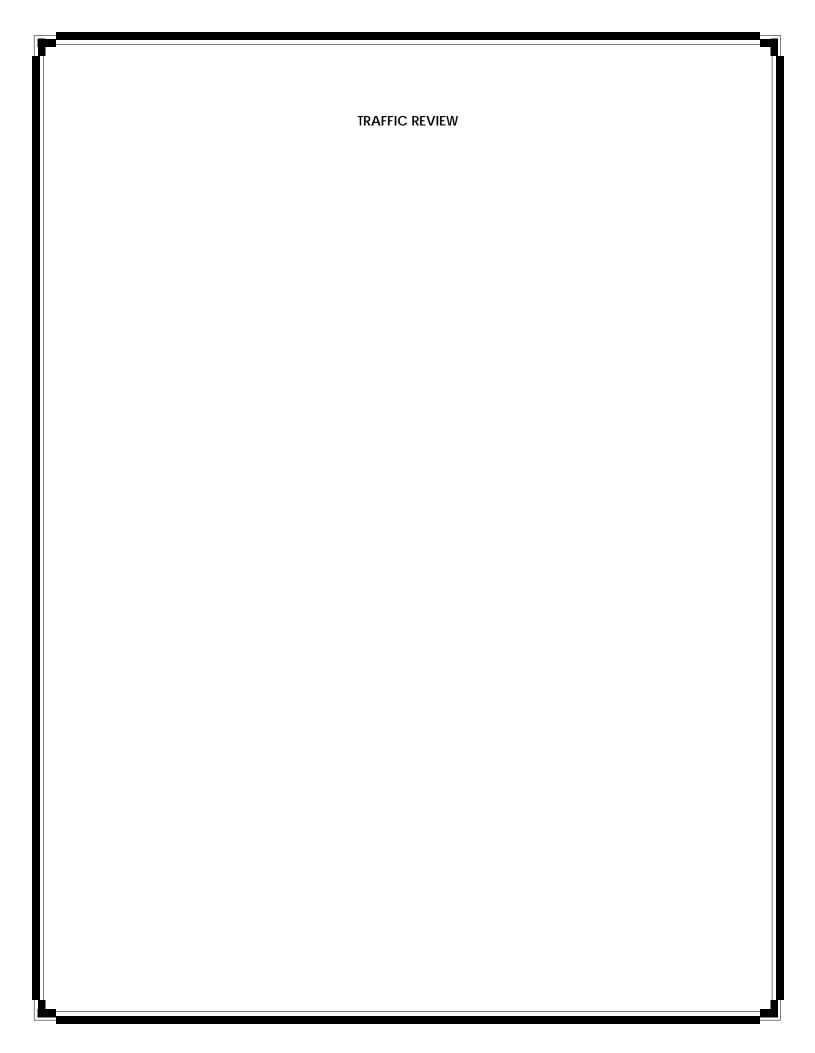


**Photo 1**. Looking south at project site. Area of mapped Regulated Woodland is located along the southwest portion of the site (ECT, November 23, 2016).



**Photo 2**. Looking north at area of un-mapped woodland along the western portion of the project site (ECT, November 23, 2016).







To:

Barbara McBeth, AICP City of Novi 45175 10 Mile Road Novi, Michigan 48375

CC:

Sri Komaragiri, Lindsay Bell, George Melistas, Darcy Rechtien, Hannah Smith

AECOM 27777 Franklin Road Southfield MI, 48034 USA aecom.com

Project name:

JSP17-0065 Jaguar/Land Rover SDO Concept Traffic Review

From: AECOM

Date:

August 30, 2018

# Memo

Subject: Jaguar/Land Rover SDO Concept Traffic Review

The SDO concept site plan was reviewed to the level of detail provided and AECOM **recommends approval** for the applicant to move forward with the condition that the comments provided below are adequately addressed to the satisfaction of the City.

## **GENERAL COMMENTS**

- 1. The applicant, Erhard Motor Sales Inc., is proposing a Jaguar/Land Rover motor sales facility on the southwest corner of Meadowbrook Road and Grand River Avenue. The applicant is proposing a 58,663 square foot building that will include both sales and service areas.
- 2. Meadowbrook Road is under the jurisdiction of the City of Novi and Grand River Avenue is under the jurisdiction of the Road Commission for Oakland County.
- 3. The parcel is currently under NCC (Non-Center Commercial) and OS-1 (Office Service) Zoning. The applicant is proposing to re-zone the parcel to GE (Gateway East) zoning via a special development overlay (SDO).
- Summary of waivers/variances:
  - a. The applicant has requested a waiver for driveway spacing along Grand River Avenue.
  - b. The applicant may choose to submit the required full TIS or may elect to request a City Council variance for lack of a TIS since the City and AECOM are studying the area simultaneously.

# TRAFFIC IMPACTS

1. AECOM performed an initial trip generation estimate based on the ITE Trip Generation Manual, 10<sup>th</sup> Edition, as follows:

ITE Code: 840 (Automobile Sales)

Development-specific Quantity: 58,663 square feet gross floor area

Zoning Change: NCC/OS-1 to GE

Trip Generation Summary					
	City of Novi Threshold	Estimated Trips	Method	Above Threshold?	

AM Peak-Hour, Peak-Direction Trips	100	80	Average Rate	No
PM Peak-Hour, Peak-Direction Trips	100	86	Average Rate	No
Daily (One- Directional) Trips	750	1,633	Average Rate	Yes

- 1. Based on the City thresholds and the expected trips to be generated, the applicant is required to provide a full traffic impact study, as was indicated in the pre-application letter. The applicant has consulted Fleis & VandenBrink to complete the traffic analyses associated with this development. Fleis & VandenBrink previously submitted a rezoning traffic impact study and have indicated that they have prepared a full traffic impact study, which has not been submitted since the site plan is not finalized. The development is also included as part of the region-wide traffic impact study that AECOM and the City are completing. The applicant may choose to submit the required full TIS or may elect to request a City Council variance for lack of a TIS since the City and AECOM are studying the area simultaneously. It should be noted that the applicant may be subject to certain off-site and/or on-site mitigation measures as a result of the region-wide traffic impact study.
- 2. The number of trips does exceed the City's threshold of more than 750 trips per day or 100 trips per either the AM or PM peak hour. The applicant provided a rezoning traffic impact study (RTIS) prepared by Fleis & VandenBrink in October 2017. Fleis & VandenBrink have revised the study to include a comparison of trips generated under the previously proposed BMW dealership to the currently proposed Jaguar Land Rover dealership. AECOM reviewed the revised submittal and has the following comments:
  - a. It appears as though some trip generation calculations were completed using the ITE Trip Generation Manual, 9<sup>th</sup> Edition, while some were completed using the 10<sup>th</sup> Edition. All calculations should use the same edition for comparative purposes. The study should be updated accordingly.
  - b. The ITE Trip Generation Manual, 10<sup>th</sup> Edition, was updated to include Land Use Codes 840 Automobile Sales (New) and 841 Automobile Sales (Used), whereas the 9<sup>th</sup> Edition only had one Land Use Code 841 Automobile Sales. The study should use Land Use Code 840 from the 10<sup>th</sup> Edition for all car dealership trip generation calculations within this project.
  - c. In general, the trip generation impacts of the zoning change are expected to be less than what could be expected under the current zoning.

# **EXTERNAL SITE ACCESS AND OPERATIONS**

The following comments relate to the external interface between the proposed development and the surrounding roadway(s).

- 1. The applicant has proposed one entrance from Grand River Avenue and one entrance from Meadowbrook Road.
- 2. The Grand River Avenue driveway is a right-in/one-way-out driveway proposed to be within the existing right turn lane along eastbound Grand River Avenue.
  - a. The driveway dimensions for width are in compliance with the City standards for this particular type of driveway and meet fire department requirements.
  - b. The entering and exiting radii are within the allowable ranger per Figure IX.2 from the City's Code of Ordinances but could consider reducing to 20' to meet the standard. Alternatively, because of the right-in/right-out design, the entering and exiting radii may need to deviate from the standard dimensions.
  - c. The right-in/right-out island design should be modified to further emphasize the intended operation and discourage left turns.

- 3. The proposed Meadowbrook Road driveway is a two-way driveway. The applicant has reduced the width to 30 feet to meet City standards and although the turning radii dimensions are within the allowable range, the applicant should consider increasing to 20 feet.
- 4. The Meadowbrook Road driveway is proposed at the current location of a right turn lane taper. The applicant is extending the right turn lane north of the site driveway so that it also acts as a right turn lane for the development. The applicant provided dimensions for the taper and turn lane that are within range or Figure IX.11 in the City's Code of Ordinances. The applicant could consider reducing the right turn lane to be 25' instead of 150'. There is not an exiting taper due to the existing right turn lane for Cherry Hill Road.
- 5. The applicant provided sight lines at both driveways that appear to be in accordance with Figure VIII-E in the City's Code of Ordinances but dimensions shall be provided to ensure compliance.
- 6. The applicant should provide driveway spacing dimensions in accordance with Section 11-216.d.1.d and Figure IX.12 in the City's Code of Ordinances. The applicant is seeking a waiver for the driveway adjacent to the Grand River Avenue driveway.

# INTERNAL SITE OPERATIONS

The following comments relate to the on-site design and traffic flow operations.

- 1. General Traffic Flow
  - a. The applicant has provided large vehicle turning paths entering from Meadowbrook Road and exiting at Grand River Avenue. The applicant should also include large vehicle delivery truck patterns into and out of the proposed loading zone.
  - The City requires a loading zone totaling 10 square feet for each front foot of building. Reference section
     5.4 of the City's Zoning Ordinance for more information.
    - i. The applicant has provided a 2,465 S.F. loading zone located adjacent to the 10 visitor and ADA accessible parking at the main entrance to the building. There is a note stating that no long term delivery truck parking is allowed on site but the applicant should consider revising that to not allow deliveries during normal business hours so that the trucks do not block those 10 parking spaces. Per Section 5.4.2 the loading zone should "not have a disruptive effect on the safe and efficient flow of pedestrian and vehicular traffic within the site". Alternatively, the parking space access and/or loading zone access may be revised.
  - c. The proposed trash enclosure area is not expected to interfere with parking operations.
  - d. The applicant has indicated that the intent of the proposed 13 foot wide access pathway near the Grand River Avenue driveway is to facilitate the movement of vehicles in and out of the showroom.

#### 2. Parking Facilities

- a. As per the City's Zoning Ordinance, the applicant is required to provide one parking space for each 200 square feet of usable floor area of sales room and one for every one auto service stall in the service room. The building information listed on sheet SP-2.0 (and in the revised RTIS) is 58,663 S.F. where the label on the building plan on sheet SP-2.0 is 53,211 S.F. The applicant should updated the facility size to be consistent across all records.
  - i. The applicant has indicated that 138 spaces are required based on the criteria above; however, the amount of parking proposed is 136.
- b. The applicant has provided a total of 426 parking spaces.
  - i. It should be noted that the Novi City Council is currently reviewing an amendment to the Zoning Ordinance that limits the number of on-site parking spaces to 125 percent of the required parking. The amendment is expected to be approved prior to the Jaguar/Land Rover development being reviewed by the Planning Commission. Therefore, the applicant should accommodate for this amendment within their site plan or seek a special land use subject to Planning Commission approval.

- ii. The applicant has indicated, and should potentially designate, where customer, employee and new vehicle storage spaces will be provided throughout the site. The applicant should review the parking calculations to ensure they match what is shown on the plans. For example, there are 47 employee/visitor spaces in the parking calculations but only 44 are proposed on the plan.
- iii. Of the total 426 spaces provided, 136 of those are for visitor, employee and service bay parking. The requirement is 138 spaces so the applicant should designate (2) more spaces or a waiver may be required.
- iv. Five (5) barrier free parking spaces are required and five (5) are proposed with one (1) of those spaces being van accessible. The dimensions of these spaces are in compliance with ADA Standards for Accessible Design.
- c. The applicant has provided parking space lengths for parking spaces throughout the development. The applicant has proposed four inch curbs around the perimeter of the development, which require a parking space length of 17 feet. Please reference Section 5.3.2 of the City's Zoning Ordinance for further clarification.
  - i. It should also be noted that the note on sheet SP-3.0 indicates four inch curbs while the detail on sheet SP-6.2 indicates 6" curbs.
  - ii. The applicant should indicate that 6" curbs are required at the parking end islands as well as the four (4) 19' long parking spaces on the west side of the site.
- d. The applicant should provide the width of the maneuver aisle near the southwest corner of the site.
- e. The applicant should provide width dimensions for the proposed landscape islands, or indicate that the dimensions provided are typical throughout the site unless otherwise noted. The applicant has indicated that the landscape islands are 4.25' shorter than the adjacent parking space, which does not meet the 3' requirement. Also the 1.5' radii does not meet the 2' requirement. In some locations, the exterior radii is less than 15' and should be increased to 15'. Please reference Section 5.3.12 for more information and update the plans to meet City standards.
- f. The applicant is required to provide two (2) bicycle parking spaces for the service center section of the development and six (6) have been provided. A bicycle parking layout is shown on sheet SP-2.0 but a dimension for the width of the sidewalk should also be included.

### 3. Sidewalk Requirements

- a. The applicant has proposed an 8' sidewalk adjacent to Grand River Avenue in order to be in compliance with the City's Non-Motorized Master Plan.
- b. The proposed sidewalks throughout the site are generally in compliance with City standards; however, additional dimensions are required for the sidewalks on the southeast side of the building. The sidewalk near the trash receptacle area is labeled as 4.5' and does not meet the required 5 foot width.
- c. The applicant has provided sidewalk connections from the site to the required sidewalks along Grand River Avenue and Meadowbrook Road.
- d. The applicant has provided sidewalk ramp and detectable warning surface locations and details.
- e. The applicant should indicate the need for and intent of the proposed gray paver walkway on the site. The placement of such walkway is not ideal in that it is placed between the parking spaces and the end islands. The end islands should be relocated to be adjacent to the parking spaces.
- 4. All on-site signing and pavement markings shall be in compliance with the Michigan Manual on Uniform Traffic Control Devices (MMUTCD). The following is a discussion of the proposed signing and striping. Additional comments will be provided with the preliminary site plan.
  - a. The applicant has provided a signing layout, quantities table, and details.
  - b. The applicant could consider adding a Keep Right (R4-7) and a No Left Turn (R3-2) sign in the island of the Grand River Avenue entrance.
  - c. The applicant has provided pavement marking details for the ADA accessible parking but should also indicate pavement marking details including color, dimensions and location throughout the site and entrances in future submittals.

d. The applicant could consider signing and/or pavement markings for the pedestrian crossing at the Meadowbrook entrance.

Should the City or applicant have questions regarding this review, they should contact AECOM for further clarification.

Sincerely,

**AECOM** 

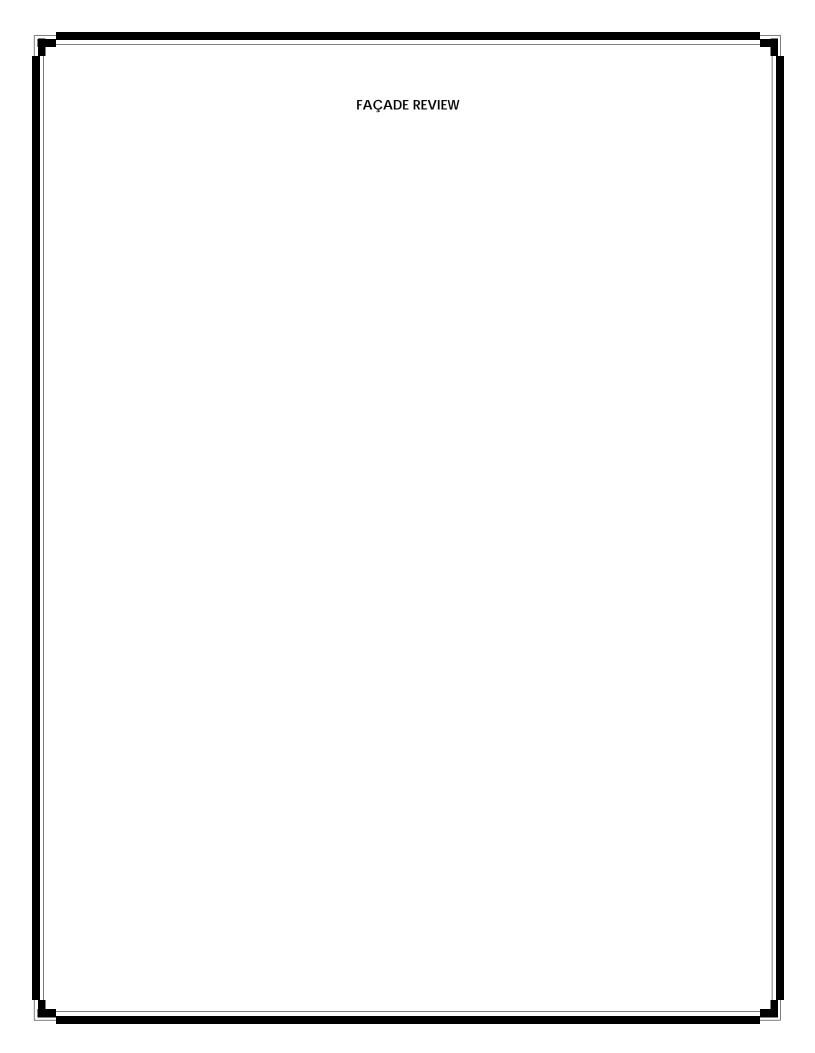
Maureen N. Peters, PE Senior Traffic/ITS Engineer

Maurer Deter

Paulo K. Johnson

Paula K. Johnson, PE

Senior Traffic Engineer







August 29, 2018

Façade Review Status Summary:

Approved, Section 9 Waivers recommended

City of Novi Planning Department 45175 W. 10 Mile Rd. Novi, MI 48375- 3024

Re: FACADE ORDINANCE REVIEW

Jaguar / Land Rover, SDO Concept Plan, JSP17-65, PSP18-0125

Façade Region: 1, Zoning District: B-3, GE

### Dear Ms. McBeth;

The following is the Facade Review for the proposed Jaguar / land Rover Building. This review is based on the drawings prepared by Rogvoy Architects, dated 8/8/18. The percentage of materials on each elevation is shown in the table below. Materials in non-compliance, if any, are highlighted in bold. A sample board was not available at the time of this review. The applicant provided photographs of the selected brick and metal panels via emailed and indicated that the sample board would be provided prior to the Planning Commission meeting.

	North (Grand River)	East (Meadowbrook)	South	West	Façade Ordinance Section 2520 Maximum
Brick (Endicott, Manganese Ironspot)	25%	28%	65%	65%	100% (30% Minimum)
Flat Metal Panels (Alubond, Champaign Metalic and Sunshine Grey)	58%	56%	23%	17%	50% (Footnote 9)
Horizontal Rib Metal Panels (Roof Screens)	17%	16%	12%	18%	0%

**Section 5.15** - As shown above the north and east facades have an underage of Brick and an overage of Flat Metal Panels. The material proposed for the roof equipment screens is not labeled on the drawings. Kristen Lark of Rogvoy Architects indicated that the roof screens will be Horizontal Ribbed Metal Panels of a complementary color. Ribbed Metal Panels are not allowed by the Façade Ordinance in Façade Region 1; however in this case the material is proposed only for roof equipment screening.

**Section 3.11.8** – Section 3.11.8 of the Ordinance states that buildings located at the corner of two streets within the Gateway East District "... shall contain two stories or incorporate architectural features that provide additional massing." The proposed building exhibits no additional massing near the intersection of Grand River and Meadowbrook Rd., and is generally inconsistent with this requirement.

The applicant should consider revising the design to add architectural features, specifically to the north east corner of the building that will meet the intent of this Section.

**Recommendation** – The design of the building exhibits simple geometric lines and is composed of high quality materials with carefully coordinated colors. The windows, although not regulated by the façade Ordinance, are proposed to be "Planar Glass". This glazing system, which features site lines without mullions and utilizes specialized fittings will add interest and enhance the overall design of the building. Therefore, it is our recommendation that the design is consistent with the intent and purpose of the Façade Ordinance and the a Section 9 Waiver be granted for the following deviations;

- 1. The underage of brick on the north and east facades.
- 2. The overage of Flat Metal Panels on the north and east facades.
- 3. The overage of Horizontal Rib Metal Panels on all facades only for the use of roof equipment screens.

Display Glass – The Façade Ordinance prohibits the use of intense colors and / or neon lighting. This applies to interior surfaces of the showroom that may be visible through the vision glass areas. We mention this in the off chance that such materials or lighting may be proposed but not indicated on the drawings.

### **Notes to the Applicant:**

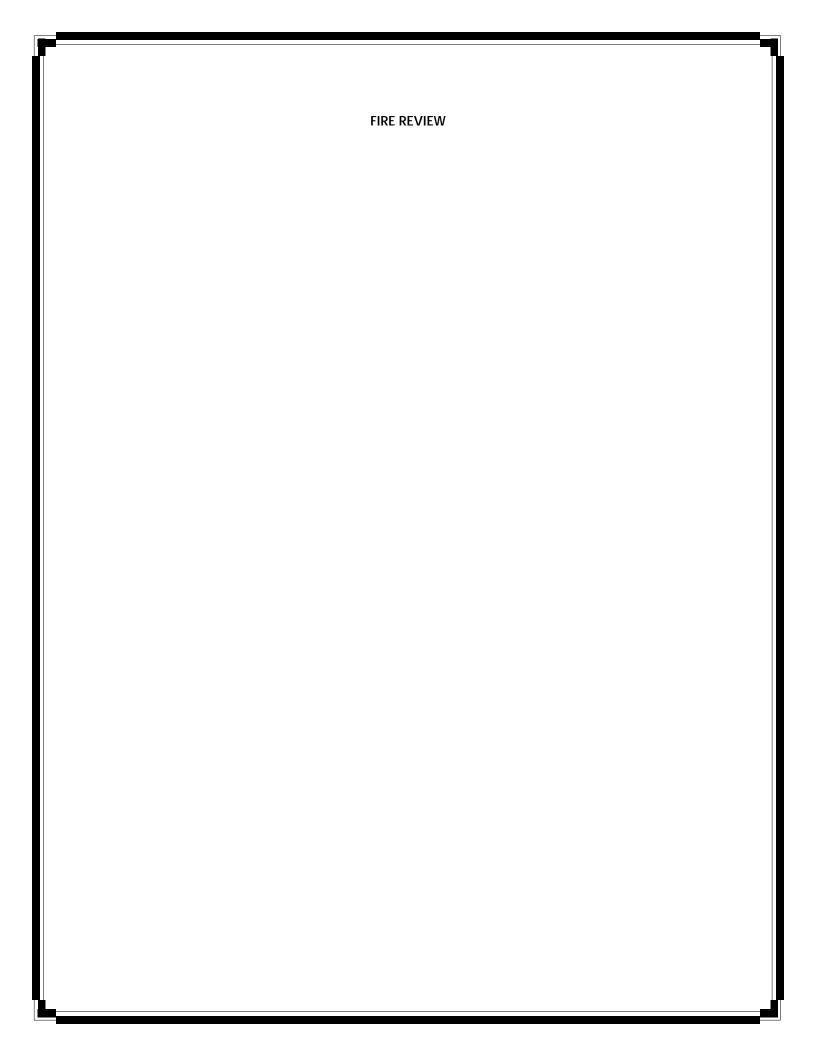
- 1. It should be noted that all proposed signs are not regulated by the Façade Ordinance and must comply with the City's Sign Ordinance.
- 2. Inspections The Façade Ordinance requires inspection(s) for all projects. Materials displayed on the approved sample board (in this case the adjacent existing material) will be compared to materials to be installed. It is the applicant's responsibility to request the inspection of each façade material at the appropriate time. Inspections may be requested using the Novi Building Department's Online Inspection Portal with the following link. Please click on "Click here to Request an Inspection" under "Contractors", then click "Façade". http://www.cityofnovi.org/Services/CommDev/OnlineInspectionPortal.asp.

If you have any questions regarding this review, please do not hesitate to call.

Sincerely,

DRN & Architects PC

Douglas R. Necci, AIA





August 16,2018

TO: Barbara McBeth- City Planner Sri Ravali Komaragiri- Plan Review Center Lindsay Bell-Plan Review Center Hannah Smith-Planning Assistant

RE: Jaguar/Land Rover

PSP# 18-0125

CITY COUNCIL

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Mayor Pro Tem

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Gwen Markham

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**Chief of Police**David E. Molloy

**Director of EMS/Fire Operations** 

Jeffery R. Johnson

**Assistant Chief of Police** 

Erick W. Zinser

**Assistant Chief of Police** 

Scott R. Baetens

**Project Description:** 

Build 53,211 S.Q.F.T. single story structure on the south west corner of Grand River and Meadowbrook.

### Comments:

- All fire hydrants MUST in installed and operational prior to any building construction begins.
- A hazardous chemical survey is required to be submitted to the Planning & Community Development Department for distribution to the Fire Department at the time any Preliminary Site Plan is submitted for review and approval. Definitions of chemical types can be obtained from the Fire Department at (248) 735-5674.
- All roads MUST meet City of Novi weight requirements of 35 ton. (Novi City Ordinance 15-17 503.2.3).

### Recommendation:

APPROVED WITH CONDITIONS

Sincerely,

CC:

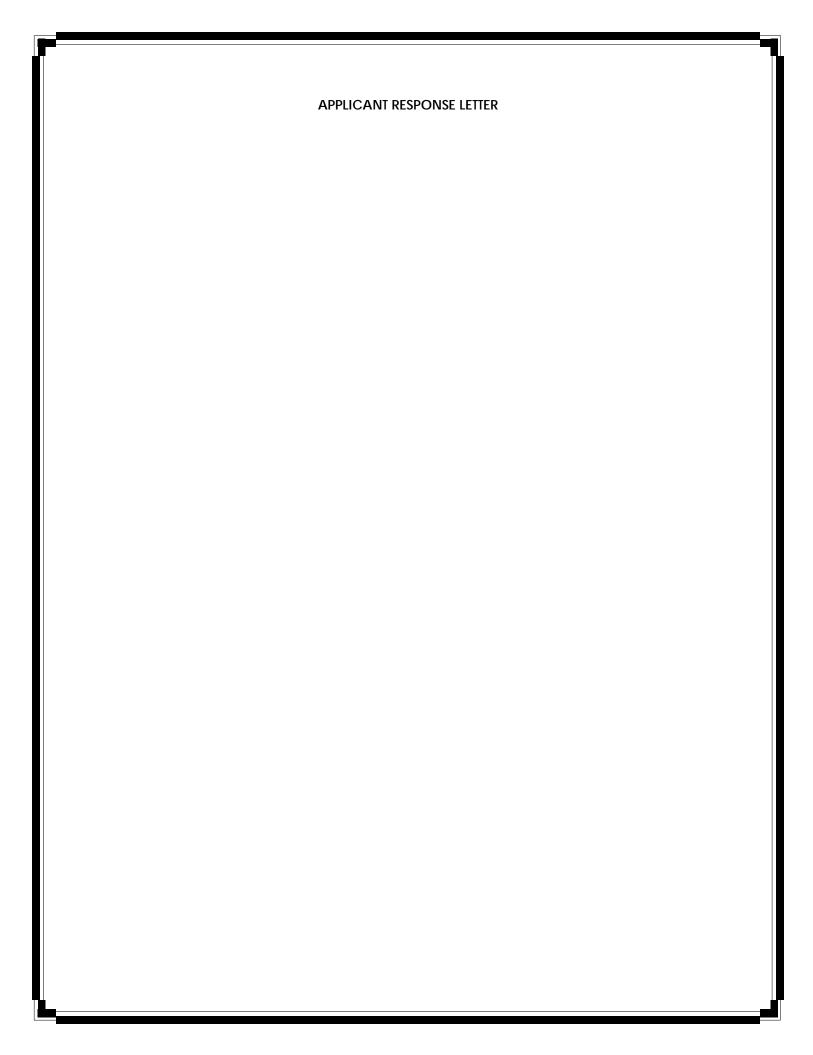
file

Kevin S. Pierce-Fire Marshal City of Novi – Fire Dept.

Novi Public Safety Administration 45125 Ten Mile Road Novi, Michigan 48375 248 348 7100

248.348.7100 248.347.0590 fax

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September 18, 2018

PEA Project No: 2017-176

Ms. Sri Ravi Komaragiri, Planner City of Novi 45175 Ten Mile Road Novi, MI 48375

**RE:** Planning Review Report

Jaguar Land Rover of Novi

South of Grand River Avenue, East of Meadowbrook Road

**Novi Project Number: JSP 17-65** 

### Dear Ms. Komaragiri:

This office is in receipt of your review letter dated September 7, 2018, regarding the subject development. We have reviewed the plans in accordance with Staff comments and provided our responses below, for Preliminary Site Plan submittal. We are including the following:

- Preliminary Site Plan Package with no changes made
- This response letter addressing all comments
- Color Landscape Plan
- Community Impact Statement

### ORDINANCE DEVIATIONS

Per Section 3.12.6, consistent with the Special Development Option concept, and toward encouraging flexibility and creativity in development, departures from compliance with the standards provided for an SDO project, may be granted in the discretion of the City Council as part of the approval of an SDO project in a GE District. Such departures may be authorized on the condition that there are recognized and specific features or planning mechanisms deemed adequate by the City Council designed into the project for the purpose of achieving the objectives intended to be accomplished with respect to each of the regulations from which a departure is sought. The following are deviations from the Zoning Ordinance and other applicable ordinances shown on the concept plan and to be included in the draft SDO Agreement:

### **Planning Deviations:**

a. For not meeting the minimum requirements for usable open space (25% of gross area of the site required); The applicant is asked to meet the minimum ordinance standards, and provide the updated calculations with an exhibit that included spaces designed as useable space. Additional revisions may be required for the proposed pedestrian plaza at the corner of Meadowbrook Road and Grand River Avenue.

September 18, 2018 PEA Project: 2016-176 Page 2

Updated calculations demonstrating compliance with the Open Space requirements will be added to sheet SP-2.0.

Enhancements for the Pedestrian Plaza on Grand River and Meadowbrook will be provided.

b. Per Section 3.11.8, street corner building should have greater massing and height. Proposed building refers to two stories, but the second story only includes a small mezzanine. It is not conforming to this requirement. The applicant may want to contact the City's Façade Consultant to determine alternatives that will meet the ordinance standards.

The building height at the corner is 35 feet. It should be noted that 2-story buildings can be as low 24-28 feet. It would not be aesthetically appealing to add a higher vertical element that would disrupt the design and character of the JLR building architecture. A deviation is requested for this requirement.

c. Per section 5.16, When 4 or more spaces are required for a building with multiple entrances, the spaces shall be provided in multiple locations. The applicant is proposing all six spaces in one location. The applicant can consider relocating couple of locations at the pedestrian plaza.

Bike racks will be relocated to limit the number of racks at any one entrance on sheet SP-2.0.

d. Per Section 3.11.8, sidewalks are required for all developments which abut any street and shall comply with the City of Novi Design and Construction Standards. The concept plan is not proposing a sidewalk along Cherry Hill Road. The applicant is asked to demonstrate whether a sidewalk and/or boardwalk can be provided with minimal impact to the existing natural features, or consider an alternative to the strict requirements of the City Code.

Per landscaping review "Absence of sidewalk is considered a deviation and can be supported due to existing natural features." Per discussions during preliminary meeting with City, Cherry Hill is adequately served by existing walkway on the south side, and adding a Boardwalk along the north side would disrupt the wetland habitat without real benefit to the community. A deviation is requirement.

### **Facade Deviations:**

- **e.** Underage of brick (30% minimum required, 25% on north façade and 28% on east façade proposed);
- **f.** Overage of flat metal panels (50% maximum allowed, 58% on north façade and 56% on east façade proposed);
- **g.** Overage of horizontal rib metal panels for roof top screening (0% allowed,17% on north, 16% on east, 12% on south and 18% on west proposed);

Section 3.11.8 of the Ordinance states that buildings located at the corner of two streets within the Gateway East District "... shall contain two stories or incorporate architectural features that provide additional massing." The proposed building exhibits no additional massing near the intersection of Grand River and Meadowbrook Rd., and is generally inconsistent with this requirement.

The applicant should consider revising the design to add architectural features, specifically to the north-east corner of the building that will meet the intent of this Section.

September 18, 2018 PEA Project: 2016-176 Page 3

The building is aesthetically pleasing, having simple, modern lines, per Jaguar design standards. Adding an added architectural corner element would be a detraction. A deviation is requested for this requirement.

Note: The Façade Ordinance prohibits the use of intense colors and / or neon lighting. This applies to interior surfaces of the showroom that may be visible through the vision glass areas. We mention this in the off chance that such materials or lighting may be proposed but not indicated on the drawings.

No intense colors or neon lighting will be used on the interior or exterior of the proposed building.

### **Traffic Deviations:**

- h. Traffic deviation to waive the requirement for required Traffic Impact Study or defer it to the time of Preliminary Site Plan review, as the site falls under the study boundaries for the ongoing Comprehensive Traffic study by the City;
- i. Traffic deviation for variance from Design and Construction Standards Section 11-216(d) for not meeting the minimum distance required for same-side commercial driveways; please provide an exhibit indicating the required distance and proposed to identify the deviation.

The required and proposed distances between drives will be shown on SP-2.0 in the next resubmittal.

### **Landscape Deviations:**

- **j.** Landscape deviation from Section. 5.5.3.E.i.c for lack of street trees along Grand River Road frontage due to lack of space (8 trees)
- **k.** Landscape deviation from Section. 5.5.3.E.i.c for lack of street trees along Cherry Hill Road frontage due to lack of space (11trees)
- **I.** Landscape deviation from Section 5.5.3.B.ii and iii for not providing greenbelt berm or plantings in area of wetland in order to preserve wetland
- m. Landscape deviation from Section 5.5.3.B.ii and iii for not providing greenbelt berm or plantings between Cherry Hill and the parking lot area not behind the wetland. This is currently not supported by staff.

Installing a berm along Cherry hill would require work in the 25-foot wetland setback and removal of existing trees that are currently slated to be preserved. A deviation from this requirement is requested.

### **SDO ELIGIBILITY (SEC. 3.12.3)**

The Planning Commission and City Council were asked to consider the following when evaluating the proposed SDO concept plan. Staff comments are in bold.

i. The project will result in a recognizable and substantial benefit to the ultimate users of the project and to the community, where such benefit would otherwise be unfeasible or unlikely to be achieved by a traditional development. The applicant has proposed a pedestrian plaza for bicyclers or pedestrians to stop and rest. Additional information such as bike racks and seating etc. are not provided at this time.

Additional details for the pedestrian plaza will be provided in the resubmittal.

ii. In relation to a development otherwise permissible as a Principal Permitted Use under Section 3.1.16.B, the proposed type and density of development shall not result in an unreasonable increase in the use of public services, facilities and utilities, and shall not place an unreasonable burden upon the subject and/or surrounding land and/or property owners and occupants and/or

the natural environment. A community impact statement or a narrative that would address this item is not included in the submittal. A noise impact statement was provided which indicates the noise levels for all uses will be kept under Ordinance minimum.

See attached Community Impact Statement.

iii. Based upon proposed uses, layout and design of the overall project, the proposed building facade treatment, the proposed landscaping treatment and the proposed signage, the Special Development Option project will result in a material enhancement to the area of the City in which it is situated. Proposed building is not consistent with massing requirement for corner buildings. See the façade and landscape review letters for additional information.

A deviation is requested for this requirement.

iv. The proposed development shall not have a materially adverse impact upon the Master Plan for Land Use of the City, and shall be consistent with the intent and spirit of this Section. The plan is consistent with the Master Plan recommendations for the subject property.

Noted.

v. In relation to a development otherwise permissible as a Principal Permitted Use under Section 3.1.16.B, the proposed development shall not result in an unreasonable negative economic impact upon surrounding properties. The proposed car dealership is similar to the existing car dealership located in the north-eastern corner of Grand River Avenue and Meadowbrook Road. The plan proposes a storm water pond on the south side to act as buffer to existing residential uses.

Noted.

vi. The proposed development shall contain at least as much useable open space as would be required in this Ordinance in relation to the most dominant use in the development. Substantially all of the total open space area must be designed as useable space. Additional information is required to verify conformance.

Additional calculations will be added to SP-2.0 to demonstrate conformance with open space requirements.

vii. Each particular proposed use in the development, as well as the size and location of such use, shall result in and contribute to a reasonable and mutually supportive mix of uses on the site, and a compatibility of uses in harmony with the surrounding area and other downtown areas of the City. A single use is proposed.

Noted.

viii. The proposed development shall be under single ownership and/or control such that there is a single person or entity having responsibility for completing the project in conformity with this Ordinance. A single entity currently owns the site.

Noted.

## SITE ADDRESSING

A new address is required for this project. The applicant should contact the Building Division for an address prior to applying for a building permit. Building permit applications cannot be processed without a correct address.

An address will be obtained from the Building Division for the site, prior to application for a Building permit.

#### PLANNING REVIEW CHART

## **Zoning and Use Requirements**

Note: The subject property is located at the "entry" area of the Gateway East District, since it is located on one of the four properties at the intersection of Grand River and Meadowbrook. Following a recommendation of the Planning Commission, Council may approve an SDO project which consists of a non-residential use permitted elsewhere in the ordinance, but not otherwise permitted in the GE district for these properties, subject to conditions listed in Section 3.12.2.A.ii. **Provide a narrative that responds to the requirements of Section 3.12.2.A.ii** 

The proposed Erhard JLR dealership is consistent with the intent of the GE district, it is compatible with the existing Cadillac dealership on the opposite corner and will feature a distinctive, upscale architecture with high quality materials, and a 2-story building height. Pedestrian access and safety will be improved by adding connecting walkways and bike racks. A unique entry focal point at the corner will include 2-story building façade, decorative paving, walls, bench seating, bike racks and landscaping which will provide interest to the Gateway East District entry.

Notes to District Standards for GE/SDO Option (Sec 3.6.2)

Parking setback screening (Sec 3.6.2.P): Refer to Landscape review for additional comments.

See landscape section for responses.

**District Required Conditions for GE (Sec. 3.11)** 

Parking Lot Screening (Sec. 3.11.6.B): Refer to Landscape review for additional comments.

See landscape section for responses

Open Space (Sec. 3.11.7): Is 8.51 acres after ROW dedication? Indicate how open space is calculated? Areas less than 20 ft. wide shall not be considered. This is considered a deviation as required useable open space is not provided.

The 8.51-acre site size is post-dedication. This and the Open space calculations will be clarified on SP-2.0 in the resubmittal.

Building Façade: Current elevations do not meet the massing requirement. This is considered a deviation and can be supported if there are enhanced site elements proposed, as required by the corner sites in GE district. Refer to Façade review letter for more comments.

Additional amenities such as benches and bike racks will be added at the corner. A deviation is requested for the massing requirement.

Streetscape Amenities (Sec. 3.11.10): Additional details are not provided such as landscape or hardscape amenities.

Page 6

Additional details for the pedestrian plaza will be provided in the resubmittal.

Special Development Option (SDO) for the GE District (Sec. 3.12)

Intent (Sec. 3.12.1): There is potential for making it "unique" development.

Noted. Additional information will be provided in the resubmittal.

Eligibility Criteria (Sec. 3.12.3.B): Refer to Planning Review letter for more details. Please provide a narrative description as how the proposed use fits the criteria listed in Section 3.12.3.B

The proposed Erhard JLR dealership will benefit the community and building users in many ways: abundance of open space, pedestrian connections, bicycle parking, high quality building materials & landscape features focused at the 'entry' corner at Grand River and Meadowbrook. There will not be excessive or unreasonable use of existing public utilities or storm water facilities and will therefore not add burden to adjacent properties. This project is consistent with the Master Plan & GE district, and will be compatible with the existing dealership at the opposite corner. The proposed development will remain under one single ownership entity.

Project Design Standards: Non-Residential (Sec. 3.12.4.B): There is an opportunity to provide attractive streetscape by proposing creative building foundation landscape. Refer to landscape review for more details. Please provide a narrative description and/or supporting exhibits as how the proposed use fits the criteria listed in Section 3.12.4.B.

Additional foundation landscaping details will be provided for the next submittal. A narrative will be provided showing how the site meets the criteria in 3.12.4.B.

General Design Standards (Sec. 3.12.4.C)

Sidewalk connection to proposed pathway on Grand River Avenue should be proposed.

The customer entrance is at the rear of the building, and a connection to Cherry Hill provides pedestrian connectivity. Due to steep grade differentials, it is not possible to provide a walkway between the parking area and the west property line. Creating a marked walkway through the asphalt and encouraging pedestrians past the service bay doors would create unsafe conditions. A waiver is requested for this requirement.

The City's Grand River Corridor Plan and reasonably shall be incorporated in terms of design features and concepts applicable to the subject property. Street lights, streetscape etc. Provide additional amenities as required.

Additional streetscape elements will be provided in the resubmittal package.

Reduce driveways and curb cuts along Grand River Avenue. Additional conditions apply. The applicant indicated in the response letter that discussion with the neighbor to have shared access weren't successful.

A shared access drive with the funeral home is not feasible for the project. A waiver is requested on the driveway spacing requirement.

Plan Information (Sec. 3.12.7.C.i.u): Community impact statement is required. Abbreviated community impact statement is provided which address Traffic and Noise.

A Community Impact Statement is attached to this letter.

End Islands (Sec. 5.3.12): Refer to Traffic for more comments.

See traffic comments for response.

Site Standards: Bicycle Parking

Bicycle Parking General requirements (Sec. 5.16): This is considered a deviation for having more than 4 spaces I none location. The applicant can consider relocating couple of locations at the pedestrian plaza.

Bicycle racks will be redistributed per requirements in the next submittal.

Site Standards: Loading and Dumpsters

Loading Spaces (Sec. 5.4.2): Provide the required and proposed loading area calculation.

Loading space calculations will be provided on SP-2.0 in the next resubmittal.

Dumpster (Sec 4.19.2.F): Label dumpster location on plans

The trash compactor will be labeled on SP-2.0 in the next resubmittal.

Site Standards: Streets & Sidewalks

Off-Road Non- Motorized Facilities City Ordinance Ch. 11, Sec. 11-256: None proposed along Cherry Hill Road. Absence of sidewalk is considered a deviation and can be supported due to existing natural features.

Per landscaping review "Absence of sidewalk is considered a deviation and can be supported due to existing natural features." Per discussions during preliminary meeting with City, Cherry Hill is adequately served by existing walkway on the south side, and adding a Boardwalk along the north side would disrupt the wetland habitat without real benefit to the community. A deviation is requested from this requirement.

Pedestrian Connectivity: Provide the required connections to public sidewalk along Grand River Avenue.

The customer entrance is at the rear of the building, and a connection to Cherry Hill provides pedestrian connectivity. Due to steep grade differentials, it is not possible to provide a walkway between the parking area and the west property line. Creating a marked walkway through the asphalt and encouraging pedestrians past the service bay doors would create unsafe conditions. A waiver is requested for this requirement.

**Building Code and other design standard Requirements** 

General layout and dimension of proposed physical improvements: Refer to all review letters for additional dimensions requested.

Noted. See review letter sections for response.

Development/Business Sign: Given the nature of business, staff recommends to indicate the location on the site plan to verify corner clearance etc. Façade proposes clear glass. Any display inside the building that can be seen through can be perceived as signage as well.

Corner clearance zones will be added to SP-2.0 to the next resubmittal.

Legal Documents: Special Development Agreement-- Work with planner to execute them as needed.

The required legal documents will be prepared and submitted.

Lighting and Photometric Plan (Sec. 5.7)

Intent (Sec. 5.7.1): Some information is missing.

Missing information will be added for the next submittal.

Standard Notes (Sec. 5.7.3.B): Please add the notes to the sheet:

- Electrical service to light fixtures shall be placed underground
- Flashing light shall not be permitted
- Only necessary lighting for security purposes & limited operations shall be permitted after a site's hours of operation

The required notes will be added to the photometric for the next submittal.

Security Lighting (Sec. 5.7.3.H): The applicant should consider having reduced lighting for security purposes after hours due to proximity to residential uses.

A note specifying minimal lighting will be added for the next submittal.

Max. Illumination adjacent to Non-Residential (Sec. 5.7.3.K): Spillover exceeds 1 along Grand River and Meadowbrook frontage near the entry drive. Spillover should be calculated at the future ROW line.

The future property line will be used as the photometric boundary. Plan will be updated to correct spillover on Grand River Avenue for future submittals.

### **Engineering Review**

#### General

 A full engineering review was not performed due to the limited information provided in this submittal. Further information related to the utilities, easements, etc. will be required to provide a more detailed review.

Noted. Additional information will be provided in the resubmittal.

2. Revise the plan set to tie in at least one city established benchmark. An interactive map of the City's established survey benchmarks can be found under the 'Map Gallery' tab on www.cityofnovi.org. City benchmark number 2411 is located southeast of the Grand River and Meadowbrook intersection.

The required benchmark will be added to the topographic survey.

3. Provide a note on the plans that all work shall conform to the current City of Novi standards and specifications.

The required note will be added to the plans.

4. A same-side/opposite-side driveway spacing waiver, granted by the Planning Commission, would be required for the proposed location of the entrance drive off Grand River Avenue with respect to the adjacent drive to the west. Consider a shared driveway with cross access easement to avoid the need for another curb cut and the spacing waiver.

A shared access drive with the funeral home is not feasible for the project. A waiver is requested on the driveway spacing requirement.

5. A right-of-way permit will be required from the City of Novi for work in the Meadowbrook Road and Grand River Avenue rights-of-way.

Noted.

6. A right-of-way permit will be required from the Road Commission for Oakland County for work in the Grand River Avenue right-of-way.

Noted.

7. An 8-foot wide asphalt wide pathway along the frontage of Grand River is shown on the plans, in accordance with the Bicycle and Pedestrian Master Plan.

Noted.

8. A 5-foot sidewalk may be required along the Cherry Hill frontage in accordance with the Zoning Ordinance. Refer to Planning review for additional discussion.

Per landscaping review "Absence of sidewalk is considered a deviation and can be supported due to existing natural features." Per discussions during preliminary meeting with City, Cherry Hill is adequately served by existing walkway on the south side, and adding a Boardwalk along the north side would disrupt the wetland habitat without real benefit to the community. A deviation is requested from this requirement.

9. The dedication of the master-planned half width right-of-way of sixty (60) feet is requested with the project. The right-of-way width to be dedicated along Meadowbrook Road is labeled as "proposed" right-of-way on the plans.

Noted.

10. The dedication of the additional right-of-way up to the master-planned 60-foot half-width is requested for the project. The additional right-of-way width to be dedicated along Grand River Avenue is labeled as "proposed" right-of- way on the plans.

Noted.

11. Soil borings shall be provided for a preliminary review of the constructability of the proposed development (roads, basin, etc.). Borings identifying soil types, and groundwater elevation should be provided at the time of Preliminary Site plan.

Geotechnical information will be provided with the next submittal.

12. A letter from either the applicant or the applicant's engineer must be submitted with the Preliminary Site Plan submittal highlighting the changes made to the plans addressing each of the comments in this review.

A response letter will be provided with the resubmittal set, detailing all changes.

#### **Utilities**

13. The existing water main on the site is not considered acceptable for service. All existing water main should be removed and replaced as needed.

The existing water main on the site will be completely removed. New water main will be installed to service the project.

14. Note that a tapping sleeve, valve and well will be provided at the connections to the existing water main.

Notes will be added to indication the TSV at the connections to the existing main.

15. Confirm location of existing 8-inch sanitary crossing Grand River.

The location of the existing sanitary will be confirmed with the next submittal.

16. Provide a sanitary sewer monitoring manhole, unique to this site, within a dedicated access easement or within the road right-of-way or public sanitary sewer easement. If not in the right-of-way or public sewer main easement, provide a 20-foot wide access easement to the monitoring manhole from the right-of-way (rather than a public sanitary sewer easement).

An access easement will be provided to the sanitary monitoring manhole.

#### **Paving & Grading**

17. Site grading shall be limited to 1V:4H (25-percent), excluding landscaping berms.

Noted. All onsite grading will be compliant with Novi requirements.

18. The end islands shall conform to the City standard island design, or variations of the standard design, while still conforming to the standards given in Section 2506 of Appendix A of the Zoning ordinance (i.e. 2' minor radius, 15' major radius, minimum 8' wide, 3' shorter than adjacent 19' stall).

End islands will be dimensioned to demonstrate compliance with requirements in the resubmittal set.

19. Revise the entrance driveway from Meadowbrook to be consistent with the standard dimensions shown in Figure IX.1 and Section 11-216 of the Design and Construction Standards.

Compliance with Figure IX.1 and Section 11-216 will be demonstrated in the resubmittal set.

20. Curbing and walks adjacent to the end of 17-foot stalls shall be reduced to 4- inches high, rather than the standard 6-inch height to be provided adjacent to 19-foot stalls. Provide additional details as appropriate.

Curb will be revised to be in compliance with City of Novi Standards.

## **Storm Sewer & Storm Water Management Plan**

21. Provide a four-foot deep sump and an oil/gas separator in the last storm structure prior to the storm water quality basin.

The required sump and separator will be provided in the resubmittal set.

22. Storm sewer pipe material shall be Class IV RCP, or ADS-HP high performance polypropylene storm sewer. Plastic pipe is not permitted within the public right-of-way.

Storm pipe will comply with City of Novi standards.

23. The Storm Water Management Plan (SWMP) shall comply with the Storm Water Ordinance and Chapter 5 of the Engineering Design Manual (refer to the runoff coefficients, 1V:4H allowable basin slopes, etc.).

The storm water management plan will comply with City of Novi Standards.

24. Unrestricted discharge to an off-site regional storm water basin is proposed. Applicable storm sewer tap fees will be determined prior to final site plan approval.

Required tap fees will be paid.

#### **Off-Site Easements**

25. Off-site utility easements and agreements must be executed prior to final approval of the plans. Drafts shall be submitted at the time of the Preliminary Site Plan submittal.

Draft easements will be provided with the resubmittal set.

## Landscaping Review

#### LANDSCAPE DEVIATIONS:

1. Deviation to not provide street trees along Grand River (8 trees) – supported by staff because there is no room for the trees.

Noted.

1. Deviation to not provide street trees along Cherry Hill (11 trees) – supported by staff because there is no room for the trees.

Noted.

2. Deviation to not provide greenbelt berm or plantings in area of wetland in order to preserve wetland – supported by staff.

Noted.

3. Deviation to not provide greenbelt berm in greenbelt between Cherry Hill and the parking lot area not behind the wetland – not supported by staff.

A landscape buffer along Cherry Hill would require removal of trees that are currently being saved as well as impacting the existing wetland area and wetland buffer. Due to the density of the existing trees and the existing wetland, a waiver is requested.

## Adjacent to Residential - Buffer (Zoning Sec. 5.5.3.B.ii and iii)

1. While the property is not adjacent to residentially zoned property, the property to the west is a multi-family project under construction.

Noted. Proposed berm will be extended to wetland buffer.

2. The 5-foot-tall berm provided meets the requirement for parking adjacent to residential and the west property line is heavily landscaped with a mix of woodland replacement deciduous canopy trees.

Noted.

3. Please extend the berm south to the edge of the critical root zone of tree #1573. If the applicant is willing to plant or pay for one more woodland replacement tree, it would be preferable to extend the berm to the edge of the wetland buffer.

Trees 1573 and 1574 will be removed, and the berm along the west property line will be extended to the edge of the natural features buffer.

## Adjacent to Public Rights-of-Way – Berm (Wall) & Buffer (Zoning Sec. 5.5.3.B.ii and iii)

1. The required greenbelt width is provided along both frontages.

Noted.

2. There are some minor shortages in landscaping provided along the frontages that area outlined on the landscape chart, and should be corrected with Preliminary Site Plans.

One more deciduous tree will be added along Meadowbrook and the parking lot tree locations will be adjusted as requested.

3. No berms are provided as required. Evergreen hedges are proposed along Meadowbrook and a small section of Grand River frontage, but three-foot-tall berms or masonry walls are preferred as they provide more permanent screening than hedges do.

Berms will be provided along Meadowbrook to screen the parking area.

4. Please provide berms or walls in place of the hedges. If the hedges are kept, please provide justification for the hedge in place of berms or walls.

Berms will be provided along Meadowbrook to screen the parking area.

5. The applicant is not providing a berm or landscaping in the area of the wetland along Cherry Hill Road. This deviation is supported by staff because adding those elements would damage the wetland.

Noted.

6. The applicant is not providing a berm or landscaping in the Cherry Hill Road greenbelt. This deviation is not supported by staff at this time. Please provide justification for not providing the required 3-foot-tall berm in that area.

Installing a berm along Cherry hill would require work in the 25-foot wetland setback and removal of existing trees that are currently slated to be preserved. A waiver from this requirement is requested.

## Street Tree Requirements (Zoning Sec. 5.5.3.E.i.c and LDM 1.d.)

1. Street trees are provided along Meadowbrook as required.

Noted.

2. Street trees are not provided along either Grand River or Cherry Hill. These deviations are supported by staff because a drainage ditch and utility lines do not provide room for the trees along Grand River, and a deep ditch along Cherry Hill does not allow room for street trees there.

Noted.

## Parking Lot Landscaping (Zoning Sec. 5.5.3.C.)

1. Based on the vehicular use areas, 4,775 sf of islands and 24 trees are required. 11,612 sf of islands and 24 trees are provided.

Noted.

2. Each interior island and endcap island must have at least one tree planted in it. There are 6 islands that do not have the required tree.

Utility locations will be adjusted as needed to provide for trees in the required islands.

3. Please add trees in those islands.

Utility locations will be adjusted as needed to provide for trees in the required islands.

4. Woodland replacement trees should not be planted in parking lot islands. Please remove them.

Noted. Trees will be relocated as needed.

5. There must be at least 200sf of green space per tree planted in interior islands. Many of the islands with less than 400sf of area have 2 trees planted in them. Please do not plant trees in situations with less than the required area.

Islands will be evaluated to ensure that they have sufficient area for the proposed trees.

### Parking Lot Perimeter Canopy Trees (Zoning Sec. 5.5.3.C.(3) Chart footnote)

1. Based on the 2,099lf of perimeter, 60 trees are required. 46 new trees, 7 greenbelt trees within 15 feet of the parking lot are being double-counted as perimeter trees, as is allowed, and 7 existing trees being preserved that are within 15 feet of the parking lot are provided.

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Noted.

2. Please move the western greenbelt tree along the Meadowbrook entry drive to the greenbelt.

This will be done for resubmittal.

## Loading Zone screening (Zoning Sec. 3.14, 3.15, 4.55, 4.56, 5.5)

1. Please provide more solid screening between Meadowbrook Road and the loading area.

A 3-foot berm will be added along the Meadowbrook frontage in front of the parking area and loading zone. The roadway along Meadowbrook is 5 feet lower than the planned elevation of the loading area. Together with the 3-foot berm, this will provide an effective 8-foot opaque screen between the roadway and the loading zone.

## **Building Foundation Landscape (Zoning Sec 5.5.3.D.)**

1. Based on the hatched areas and calculations it appears that sufficient building foundation landscaping will be provided.

Noted. Detailed foundation plans will be provided with next submittal.

2. Please provide detailed foundation planting plans for the building frontages along Grand River and Meadowbrook to help assess how well the project meets the goals of the Gateway SDO.

Noted. Detailed foundation plans and Gateway feature plan will be provided with next submittal.

3. The remaining foundation planting detail drawings can be provided with Final Site Plans.

Noted.

#### **Woodland Replacement Trees**

1. Please do not locate woodland replacement trees in areas where they cannot be protected, such as in the greenbelt where utilities are nearby, in parking lot islands, etc.

Noted. Trees will be relocated as required.

#### Irrigation (LDM 1.a.(1)(e) and 2.s)

1. The proposed landscaping must be provided with sufficient water to become established and survive over the long term.

Noted.

2. Please note how this will be accomplished if an irrigation plan is not provided.

An irrigation plan will be submitted with the resubmittal set.

#### LANDSCAPE REVIEW SUMMARY CHART

Landscape Plan (Zoning Sec 5.5.2, LDM 2.e.): When building foundation planting designs are provided, please use a scale no less than 1" = 20'.

Noted.

Zoning (LDM 2.f.): Please show zoning of adjacent parcels on landscape plan.

Noted.

Existing plant material Existing woodlands or wetlands (LDM 2.e.(2)):

1. See ECT review for full analysis of Wetlands & Woodlands.

Noted.

2. Please move the note stating "Provide Tree Protection Fence Around Existing Trees to Remain, Typ." At the brick plaza area, down to point at preserved trees.

The note will be relocated.

3. Please remove trees #1573 and #1574 so the berm can be extended further southward.

Trees 1573 and 1574 will be removed, and the berm along the west property line will be extended to the edge of the natural features buffer.

Proposed grading. 2' contour minimum (LDM 2.e.(1)):

- 1. Please provide required berms in greenbelts adjacent to parking.
- 2. See below for berm requirements.

A berm will be added along Meadowbrook where it does not interfere with the existing wetland. A waiver is requested for the berm at Cherry Hill as this would require work within the 25' wetland setback and removal of existing trees that are currently slated to be preserved.

Parking Area Landscape Requirements LDM 1.c. & Calculations (LDM 2.o.)

General requirements (LDM 1.c):

- Please show RCOC sight clearance for Grand River entry.
- Remove any shrubs taller than 30" or trees from the zone.

The RCOC sight clearance will be added for the Grand River entry, and no plantings taller than 30" will be placed in the zone.

Name, type and number of ground cover (LDM 1.c.(5)): Please make seed/sod hatches more different for easier interpretation.

Seed and sod hatches will be updated to provide greater contrast in future submittals.

General (Zoning Sec 5.5.3.C.ii)

Parking lot Islands (a, b. i):

1. It is difficult to determine where backs of curb are on plans. Please dimension widths of islands at back of curb.

Dimensions will be clarified to be to back of curb.

2. Please increase widths or areas of islands as necessary.

Islands will be sized appropriately to support the planned trees in future submittals.

## Contiguous space limit (i):

- 1. All endcap islands and islands used to break up bays must be landscaped with a deciduous canopy tree.
- 2. There are 6 interior or endcap islands that need to have trees.
- 3. Please add trees as necessary and enlarge island planting area(s) if necessary to accommodate them.

Islands will be sized appropriately to support the planned trees in future submittals.

Clear Zones (LDM 2.3.(5)): Please indicate clear vision zone per RCOC regulations for Haggerty Road entry and all entries to interior road.

The RCOC sight clearance will be added for the Grand River entry, and no plantings taller than 30" will be placed in the zone.

#### **All Categories**

## D = C/200 Number of canopy trees required:

- 1. Woodland replacement trees should not be planted in parking lot islands.
- 2. Woodland replacement trees should also not be placed in the greenbelt or other areas where they cannot be protected with an easement.
- 3. Please move replacement trees out of those areas. If they cannot fit on the site in acceptable locations, a deposit for the trees that can't be planted can be made to the city's tree fund.

Noted. Woodland replacement trees will be relocated as specified.

## **Perimeter Green space**

- 1. Please move the perimeter tree furthest in the Meadowbrook entry out to between the parking lot and Meadowbrook if it is to count as a greenbelt tree.
- 2. If fewer replacement trees were placed in the greenbelt, there would be plenty of room for all of the required greenbelt trees.

The tree will be relocated as specified.

### Residential Adjacent to Non-residential (Sec 5.5.3.A) & (LDM 1.a)

Berm requirements (Zoning Sec 5.5.A): 5-6-foot-tall landscaped berm is provided along west property line. Please extend the berm further south, preferably to end at the wetland buffer but at least to the edge of the critical root zone of Tree #1573, to provide better screening of the parking lot from the residences southwest of the project.

Trees 1573 and 1574 will be removed, and the berm along the west property line will be extended to the edge of the natural features buffer.

Adjacent to Public Rights-of-Way (Sec 5.5.B) and (LDM 1.b)

Berm requirements (Zoning Sec 5.5.3.A.(5)): An undulating berm a minimum of 3 feet high with a 3-foot-wide crest is required between parking and right-of-way:

1. Please provide the required berms along Grand River and Meadowbrook.

Berms will be provided as required along Grand River and Meadowbrook.

2. Due to the preservation of the wetland, a landscape waiver to not provide the required berm in that area of the Cherry Hill greenbelt is supported by staff.

Noted.

3. Please provide the required berm along the eastern 350lf of Cherry Hill frontage. Currently, the deviation is not supported by staff. Please provide justification for this deviation.

Installing a berm along Cherry hill would require work in the 25-foot wetland setback and removal of existing trees that are currently slated to be preserved. A deviation from this requirement is requested.

Cross-Section of Berms (LDM 2.j)

Slope, height and width: Please provide berm cross section that includes loam and topsoil callouts

Cross section details of the berms will be provided in the next submittal.

Walls (LDM 2.k & Zoning Sec 5.5.3.vi)

Material, height and type of construction footing: Please indicate wall elevations and provide construction details.

Wall details will be provided in the next submittal.

Walls greater than 3\( \frac{1}{2} \) ft. should be designed and sealed by an Engineer

Any wall larger than 3.5 feet will have design and seal from a structural engineer.

**ROW Landscape Screening Requirements (Sec 5.5.3.B. ii)** 

Greenbelt width (2)(3) (5): Min. berm crest width:

- 1. An evergreen hedge is provided in lieu of berm along Meadowbrook and a small part of the Grand River frontage. Masonry walls are an allowed substitution for the berm, but hedges are the least preferred option as they don't provide the same permanent blockage as berms or walls do.
- 2. Please provide justification for this alternative.

A 3-foot berm will be added along the Meadowbrook frontage in front of the parking area and loading zone. The roadway along Meadowbrook is 5 feet lower than the planned elevation of the loading area. Together with the 3-foot berm, this will provide an effective 8-foot opaque screen between the roadway and the loading zone.

3. No berm is provided along the Cherry Hill frontage. This deviation is supported for the section in the wetland/wetland buffer to preserve them, but is currently not supported for the eastern 350 feet of frontage.

4. Please provide the required berm or provide justification for not providing it.

Installing a berm along Cherry hill would require work in the 25-foot wetland setback and removal of existing trees that are currently slated to be preserved. A waiver from this requirement is requested.

## Minimum berm height (9)

- 1. See above.
- 2. If hedge along Meadowbrook is permitted, it must be maintained in a continuous condition, at a height of at least 36".

A 3-foot berm will be added along the Meadowbrook frontage in front of the parking area and loading zone. The roadway along Meadowbrook is 5 feet lower than the planned elevation of the loading area. Together with the 3-foot berm, this will provide an effective 8-foot opaque screen between the roadway and the loading zone.

## Canopy deciduous or large evergreen trees Notes (1) (10):

1. Please provide 1 more deciduous canopy or large evergreen tree along the Meadowbrook greenbelt.

An additional tree will be provided for the next resubmittal.

2. Please move the western greenbelt/ perimeter tree on the Meadowbrook entry out to between the parking lot and Meadowbrook.

The tree will be relocated as specified.

3. Please replace the Bowhall Maple with a variety that has a minimum mature canopy width of at least 20 feet.

The Bowhall Maples will be replaced with sub canopy trees at a ratio of 1.5 canopy trees to 1 large deciduous or evergreen tree due to their proximity to powerlines.

## Sub-canopy deciduous trees Notes (2)(10):

1. Please provide 2 more sub canopy trees along Meadowbrook

Trees will be added for the next submittal.

2. Please provide 2 more sub canopy trees along Grand River

Trees will be added for the next submittal.

Non-Residential Zoning Sec 5.5.3.E.iii & LDM 1.d (2) Refer to Planting in ROW, building foundation landscape, parking lot landscaping and LDM

Screening of outdoor storage, loading/unloading (Zoning Sec. 3.14, 3.15, 4.55, 4.56, 5.5): Better screening of the loading zone from Meadowbrook should be provided.

A 3-foot berm will be added along the Meadowbrook frontage in front of the parking area and loading zone. The roadway along Meadowbrook is 5 feet lower than the planned elevation of the loading area. Together

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with the 3-foot berm, this will provide an effective 8-foot opaque screen between the roadway and the loading zone.

Transformers/Utility boxes (LDM 1.e from 1 through 5): When transformer locations are finalized, screening shrubs per standard detail are required.

Screening will be provided around transformers in the resubmittal.

**Detention/Retention Basin Requirements (Sec. 5.5.3.E.iv)** 

Planting requirements (Sec. 5.5.3.E.iv):

1. Please use straight species Rhus aromatica, not Grow Low.

Noted. Variety will be updated for next submittal.

2. Please use a more equal split between the 3 species.

Noted. Quantities will be updated for next submittal.

## Phragmites Control (Sec 5.5.6.C):

1. Please survey the site for any populations of Phragmites australis and submit plans for its removal.

A Phragmites survey will be conducted, and appropriate remediation plan prepared as required.

2. If none is found, please indicate that on the survey.

Appropriate notes will be added as to the existence, or lack thereof.

#### LANDSCAPING NOTES, DETAILS AND GENERAL REQUIREMENTS

Other information (LDM 2.u): Please change note #13 from one (1) year to three (3) months.

Noted. Planting notes will be updated for next submittal.

Plant List (LDM 2.h.) – Include all cost estimates: Please use hatches that are easier to differentiate from each other.

Hatches will be updated for next submittal.

#### **Wetland Comments**

Please consider the following comments when preparing subsequent site plan submittals:

1. It does not appear as though a MDEQ Wetland Permit or City of Novi Wetland Use Permit would be required as there do not appear to be proposed wetland impacts.

No wetland impacts are planned for this project.

2. A City of Novi Authorization to Encroach the 25-Foot Natural Features Setback would be required for any proposed impacts to on-site 25-foot wetland buffers. There appear to be

wetland buffer impacts proposed for the construction of the outlet from the proposed storm water detention basin.

Noted. Authorization will be obtained for work in the natural features setback.

3. ECT encourages the Applicant to minimize impacts to on-site wetlands and 25-foot wetland setbacks to the greatest extent practicable. The Applicant should consider modification of the proposed site design to preserve all wetland and wetland buffer areas. Specifically, the applicant shall work to avoid any proposed encroachment into the 25-foot wetland buffer for the purpose constructing the proposed storm water detention basin. The City regulates wetland buffers/setbacks. Article 24, Schedule of Regulations, of the Zoning Ordinance states that:

"There shall be maintained in all districts a wetland and watercourse setback, as provided herein, unless and to the extent, it is determined to be in the public interest not to maintain such a setback. The intent of this provision is to require a minimum setback from wetlands and watercourses".

Construction practices will minimize intrusion into the wetland buffer.

4. The applicant should clearly show and label any wetland and 25-foot natural features setback (buffer) boundaries on all future plan submittals. In addition, please provide on the Plan, the date that the original wetland delineation was conducted.

The 25' natural features setback will be labeled on future submittals.

5. The on-site acreages for all existing wetland areas and associated 25-foot wetland setback areas should be indicated on the Plan.

The areas for the wetland and natural features setback will be labeled on future submittals.

6. The areas (square feet or acres) of all proposed impacts to the 25-foot wetland buffer (both permanent and/or temporary) shall be clearly indicated on the Plan.

Areas of impact will be delineated and labeled on the plans for future submittals.

7. The Plan should address how any temporary impacts to wetland buffers shall be restored, if applicable. A proposed seed mix should be provided on the Plan for restoration of these wetland buffer areas. Sod or common grass seed will not be authorized in these areas.

There is a 5' lawn buffer around the parking lot on the west and south sides. Between the 5' lawn strip and the wetland buffer and the west property line, a native prairie mix is specified. Restoration notes for impacted buffer areas will be clarified for the next resubmittal.

8. The Applicant is encouraged to provide wetland conservation easements for any areas of remaining wetland or 25-foot wetland buffer. The Applicant shall provide wetland conservation easements as directed by the City of Novi Community Development Department for any areas of remaining wetland as well as for any proposed wetland mitigation areas (if necessary). A Conservation Easement shall be executed covering all remaining wetland areas on site as shown on the approved plans. This language shall be submitted to the City Attorney for review. The executed easement must be returned to the City Attorney within 60 days of the issuance of the City of Novi Wetland and Watercourse permit.

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A conservation easement will be provided for the existing wetland area.

9. Should impacts to the wetland area be proposed, the applicant shall provide correspondence from the MDEQ clarifying the regulatory status of Wetland A. A City of Novi Wetland Permit cannot be issued prior to receiving this information.

A copy of any MDEQ permit will be provided as required.

#### **Woodland Comments**

Please consider the following comments when preparing subsequent site plan submittals:

 ECT encourages the Applicant to minimize impacts to on-site woodlands to the greatest extent practicable. Currently, the Plan proposes to remove 149 of the 310 surveyed trees (48% of the on-site regulated trees). The current required Woodland Replacement Credit quantity is 172 Woodland Replacement Credits.

Noted.

2. The Plan includes a Tree Plant List on Sheet T-1.0, that lists the species of the proposed Woodland Replacement Trees; however, it does not currently appear to specify the quantity of each species that will be used as Woodland Replacement tree credits. The applicant should, for example, specify how many of the 28 hophornbeam listed in the list are Woodland Replacement Trees as opposed to Perimeter Parking Lot or Landscape trees, etc.

Noted. Tree list will be broken into two separate lists for the next submittal.

3. For trees proposed for removal, the Tree Plant List should include a column indicating the number of Woodland Replacement Credits Required.

Noted. The Woodland Replacement Credits will be tabulated on future resubmittals.

4. All of the tree species proposed as Woodland Replacement Tree material appears to be acceptable per the City's Woodland Tree Replacement Chart, however, the applicant shall specify the thornless honeylocust (Gleditsia triacanthos inermis) on the Plan.

Tree variety will be updated for next submittal.

5. A Woodland Permit from the City of Novi would be required for proposed impacts to any trees 8- inch diameter-at-breast-height (DBH) or greater and located within an area designated as City Regulated Woodland, or any tree 36-inches DBH regardless of location on the site. Such trees shall be relocated or replaced by the permit grantee. All deciduous replacement trees shall be two and one-half (2 ½) inches caliper or greater and count at a 1-to-1 replacement ratio and all coniferous replacement trees shall be six (6) feet in height (minimum) and count at a 1.5-to-1 replacement ratio. All Woodland Replacement trees shall be species that are listed on the City's Woodland Tree Replacement Chart (attached).

Noted. Permits will be obtained as required, and all woodland replacement trees will meet the City requirements.

6. A Woodland Replacement Performance financial guarantee for the planting of replacement trees will be required. This financial guarantee will be based on the number of on-site woodland replacement trees (credits) being provided at a per tree value of \$400. In this case,

the Woodland Replacement Performance Guarantee would be \$68,800 (172 Woodland Replacement Credits Required x \$400/Credit). Based on a successful inspection of the installed on-site Woodland Replacement trees, the original Woodland Financial Guarantee shall be returned to the Applicant. Twenty-five percent (25%) of the value of the Woodland Replacement material shall be kept for a period of 2-years after the successful inspection of the tree replacement installation as a Woodland Maintenance and Guarantee Bond. This Woodland Maintenance and Guarantee Bond value is to be \$17,200.

Noted.

7. If applicable, Woodland Replacement material should not be located 1) within 10' of built structures or the edges of utility easements and 2) over underground structures/utilities or within their associated easements. In addition, replacement tree spacing should follow the Plant Material Spacing Relationship Chart for Landscape Purposes found in the City of Novi Landscape Design Manual.

Noted.

8. If applicable, the Applicant will be required to pay the City of Novi Tree Fund at a value of \$400/credit for any Woodland Replacement tree credits that are proposed on-site that cannot be placed on-site at the time of landscaping.

Noted.

9. The applicant currently proposes to provide 172 Woodland Replacement Credits on site. The Applicant shall provide preservation/conservation easements as directed by the City of Novi Community Development Department for any areas of woodland replacement trees. The applicant shall demonstrate that the all proposed woodland replacement trees will be guaranteed to be preserved as planted with a conservation easement or landscape easement to be granted to the city. This language shall be submitted to the City Attorney for review. The executed easement must be returned to the City Attorney within 60 days of the issuance of the City of Novi Woodland permit. The applicant shall clearly indicate the proposed conservation easement boundaries on the Plan.

The conservation easement will be delineated on the plan, and submitted as required for review to the City.

10. As noted, some of the proposed Woodland Replacement trees are within the parking lot or close to the proposed loading zone. The location of these trees is not consistent with the intent of the Woodland Ordinance in mitigating for the loss of woodland tree canopy. ECT suggests that these proposed Woodland Replacement Trees be relocated to another area of the site that can more easily be placed into a conservation easement.

Woodland Replacement Trees will be relocated out of the parking lot for future resubmittal.

# **Traffic Review Comments**

## **EXTERNAL SITE ACCESS AND OPERATIONS**

The following comments relate to the external interface between the proposed development and the surrounding roadway(s).

1. The applicant has proposed one entrance from Grand River Avenue and one entrance from Meadowbrook Road.

Noted.

2. The Grand River Avenue driveway is a right-in/one-way-out driveway proposed to be within the existing right turn lane along eastbound Grand River Avenue.

a. The driveway dimensions for width are in compliance with the City standards for this particular type of driveway and meet fire department requirements.

Noted.

b. The entering and exiting radii are within the allowable ranger per Figure IX.2 from the City's Code of Ordinances but could consider reducing to 20' to meet the standard. Alternatively, because of the right- in/right-out design, the entering and exiting radii may need to deviate from the standard dimensions.

The radii are per the instructions received from the Fire Marshall as minimums to allow fire truck access to the site.

c. The right-in/right-out island design should be modified to further emphasize the intended operation and discourage left turns.

The divided island design will be detailed in future resubmittals.

3. The proposed Meadowbrook Road driveway is a two-way driveway. The applicant has reduced the width to 30 feet to meet City standards and although the turning radii dimensions are within the allowable range, the applicant should consider increasing to 20 feet.

The radii will be adjusted to 20 feet in the resubmittal.

4. The Meadowbrook Road driveway is proposed at the current location of a right turn lane taper. The applicant is extending the right turn lane north of the site driveway so that it also acts as a right turn lane for the development. The applicant provided dimensions for the taper and turn lane that are within range or Figure IX.11 in the City's Code of Ordinances. The applicant could consider reducing the right turn lane to be 25' instead of 150'. There is not an existing taper due to the existing right turn lane for Cherry Hill Road.

The taper lane will be adjusted to 25' in the resubmittal.

5. The applicant provided sight lines at both driveways that appear to be in accordance with Figure VIII-E in the City's Code of Ordinances but dimensions shall be provided to ensure compliance.

Dimensions will be added to all sight lines.

6. The applicant should provide driveway spacing dimensions in accordance with Section 11-216.d.1.d and Figure IX.12 in the City's Code of Ordinances. The applicant is seeking a waiver for the driveway adjacent to the Grand River Avenue driveway.

Dimensions will be added to clarify driveway spacing along Grand River.

## **INTERNAL SITE OPERATIONS**

The following comments relate to the on-site design and traffic flow operations.

#### 1. General Traffic Flow

a. The applicant has provided large vehicle turning paths entering from Meadowbrook Road and exiting at Grand River Avenue. The applicant should also include large vehicle delivery truck patterns into and out of the proposed loading zone.

Truck turn models will be added to show access to the loading zone.

- b. The City requires a loading zone totaling 10 square feet for each front foot of building. Reference section of the City's Zoning Ordinance for more information.
  - i. The applicant has provided a 2,465 S.F. loading zone located adjacent to the 10 visitor and ADA accessible parking at the main entrance to the building. There is a note stating that no long-term delivery truck parking is allowed on site but the applicant should consider revising that to not allow deliveries during normal business hours so that the trucks do not block those 10 parking spaces. Per Section 5.4.2 the loading zone should "not have a disruptive effect on the safe and efficient flow of pedestrian and vehicular traffic within the site". Alternatively, the parking space access and/or loading zone access may be revised.

The required note will be added to the plan set for future resubmittals.

c. The proposed trash enclosure area is not expected to interfere with parking operations.

Noted.

d. The applicant has indicated that the intent of the proposed 13-foot-wide access pathway near the Grand River Avenue driveway is to facilitate the movement of vehicles in and out of the showroom.

Noted.

#### 2. Parking Facilities

a. As per the City's Zoning Ordinance, the applicant is required to provide one parking space for each 200 square feet of usable floor area of sales room and one for every one auto service stall in the service room. The building information listed on sheet SP-2.0 (and in the revised RTIS) is 58,663 S.F. where the label on the building plan on sheet SP-2.0 is 53,211 S.F. The applicant should update the facility size to be consistent across all records.

The building areas will be updated to be consistent on all plans for future submittals.

i. The applicant has indicated that 138 spaces are required based on the criteria above; however, the amount of parking proposed is 136.

Parking counts will be verified and updated to be in compliance with requirements for future resubmittals.

- b. The applicant has provided a total of 426 parking spaces.
  - i. It should be noted that the Novi City Council is currently reviewing an amendment to the Zoning Ordinance that limits the number of on-site parking spaces to 125 percent of the required parking. The amendment is expected to be approved prior to the Jaguar/Land Rover development being reviewed by the Planning Commission. Therefore, the applicant should accommodate for this

Page 25

amendment within their site plan or seek a special land use subject to Planning Commission approval.

Per conversation with Planning, the Zoning Amendment should not be passed prior to approval of this project. If for some reason, the Amendment is implemented prior to approval, a Special Land Use application will be made.

ii. The applicant has indicated, and should potentially designate, where customer, employee and new vehicle storage spaces will be provided throughout the site. The applicant should review the parking calculations to ensure they match what is shown on the plans. For example, there are 47 employee/visitor spaces in the parking calculations but only 44 are proposed on the plan.

Parking counts will be verified and updated to be in compliance with requirements for future resubmittals.

iii. Of the total 426 spaces provided, 136 of those are for visitor, employee and service bay parking. The requirement is 138 spaces so the applicant should designate (2) more spaces or a waiver may be required.

Parking counts will be verified and updated to be in compliance with requirements for future resubmittals.

iv. Five (5) barrier free parking spaces are required and five (5) are proposed with one (1) of those spaces being van accessible. The dimensions of these spaces are in compliance with ADA Standards for Accessible Design.

Noted.

c. The applicant has provided parking space lengths for parking spaces throughout the development. The applicant has proposed four-inch curbs around the perimeter of the development, which require a parking space length of 17 feet. Please reference Section 5.3.2 of the City's Zoning Ordinance for further clarification.

Curb heights and parking space dimensions will be revised to be in compliance with Novi standards.

i. It should also be noted that the note on sheet SP-3.0 indicates four-inch curbs while the detail on sheet SP-6.2 indicates 6" curbs.

Details will be revised to be in compliance with plan notes.

ii. The applicant should indicate that 6" curbs are required at the parking end islands as well as the four (4) 19' long parking spaces on the west side of the site.

Curb heights and parking space dimensions will be revised to be in compliance with Novi standards.

d. The applicant should provide the width of the maneuver aisle near the southwest corner of the site.

Dimensions will be added to clarify aisle widths.

e. The applicant should provide width dimensions for the proposed landscape islands, or indicate that the dimensions provided are typical throughout the site unless otherwise noted. The applicant has indicated that the landscape islands are 4.25' shorter than the adjacent parking space, which does not meet the 3' requirement. Also, the 1.5' radii do not meet the 2' requirement. In some locations, the exterior radii are less than 15' and should be increased to 15'. Please reference Section 5.3.12 for more information and update the plans to meet City standards.

Islands will be revised to be in compliance with City Standards.

f. The applicant is required to provide two (2) bicycle parking spaces for the service center section of the development and six (6) have been provided. A bicycle parking layout is shown on sheet SP-2.0 but a dimension for the width of the sidewalk should also be included.

Bicycle spaces will be revised and dimensions added as required in future submittals.

## 3. Sidewalk Requirements

a. The applicant has proposed an 8' sidewalk adjacent to Grand River Avenue in order to be in compliance with the City's Non-Motorized Master Plan.

Noted.

b. The proposed sidewalks throughout the site are generally in compliance with City standards; however, additional dimensions are required for the sidewalks on the southeast side of the building. The sidewalk near the trash receptacle area is labeled as 4.5' and does not meet the required 5-foot width.

Dimensions will be added throughout the site. Sidewalks will be revised to be in compliance with Novi standards.

c. The applicant has provided sidewalk connections from the site to the required sidewalks along Grand River Avenue and Meadowbrook Road.

Noted.

d. The applicant has provided sidewalk ramp and detectable warning surface locations and details.

Noted.

e. The applicant should indicate the need for and intent of the proposed gray paver walkway on the site. The placement of such walkway is not ideal in that it is placed between the parking spaces and the end islands. The end islands should be relocated to be adjacent to the parking spaces.

The gray paver walkway is intended to provide connectivity between the extended visitor parking area and the building entry. Placing it behind the end islands provides separation and safety between traffic in the drive aisles and pedestrians.

- 4. All on-site signing and pavement markings shall be in compliance with the Michigan Manual on Uniform Traffic Control Devices (MMUTCD). The following is a discussion of the proposed signing and striping. Additional comments will be provided with the preliminary site plan.
  - a. The applicant has provided a signing layout, quantities table, and details.

Noted.

b. The applicant could consider adding a Keep Right (R4-7) and a No Left Turn (R3-2) sign in the island of the Grand River Avenue entrance.

The requested signage will be added to the island.

c. The applicant has provided pavement marking details for the ADA accessible parking but should also indicate pavement marking details including color, dimensions and location throughout the site and entrances in future submittals.

Notes and dimensions will be added to clarify pavement striping in future submittals

d. The applicant could consider signing and/or pavement markings for the pedestrian crossing at the Meadowbrook entrance.

Signage will be added for the pedestrian crossing.

#### Façade Review

Section 5.15 - As shown above the north and east facades have an underage of Brick and an overage of Flat Metal Panels. The material proposed for the roof equipment screens is not labeled on the drawings. Kristen Lark of Rogvoy Architects indicated that the roof screens will be Horizontal Ribbed Metal Panels of a complementary color. Ribbed Metal Panels are not allowed by the Façade Ordinance in Façade Region 1; however, in this case the material is proposed only for roof equipment screening.

A deviation is requested to allow for the use of decorative, horizontal, ribbed metal panels to be used for rooftop equipment screening only.

Section 3.11.8 – Section 3.11.8 of the Ordinance states that buildings located at the corner of two streets within the Gateway East District "... shall contain two stories or incorporate architectural features that provide additional massing." The proposed building exhibits no additional massing near the intersection of Grand River and Meadowbrook Rd., and is generally inconsistent with this requirement. The applicant should consider revising the design to add architectural features, specifically to the north-east corner of the building that will meet the intent of this Section.

The proposed building is already 35 feet at the corner. It would not be aesthetically appealing to add a higher vertical element that would disrupt the design and character of the JLR building architecture. A deviation is requested from this requirement.

#### **Fire Review**

All fire hydrants MUST in installed and operational prior to any building construction begins.

All hydrants will be installed and operational prior to building construction.

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A hazardous chemical survey is required to be submitted to the Planning & Community Development Department for distribution to the Fire Department at the time any Preliminary Site Plan is submitted for review and approval. Definitions of chemical types can be obtained from the Fire Department at (248) 735-5674.

A hazardous chemical survey will be provided with the next submittal.

All roads MUST meet City of Novi weight requirements of 35 ton. (Novi City Ordinance 15-17 503.2.3).

Pavement will meet the City of Novi requirements.

We trust these revisions meet requirements. If you should have any questions or require any additional information, please feel free to contact this office.

Sincerely,

PEA, Inc.

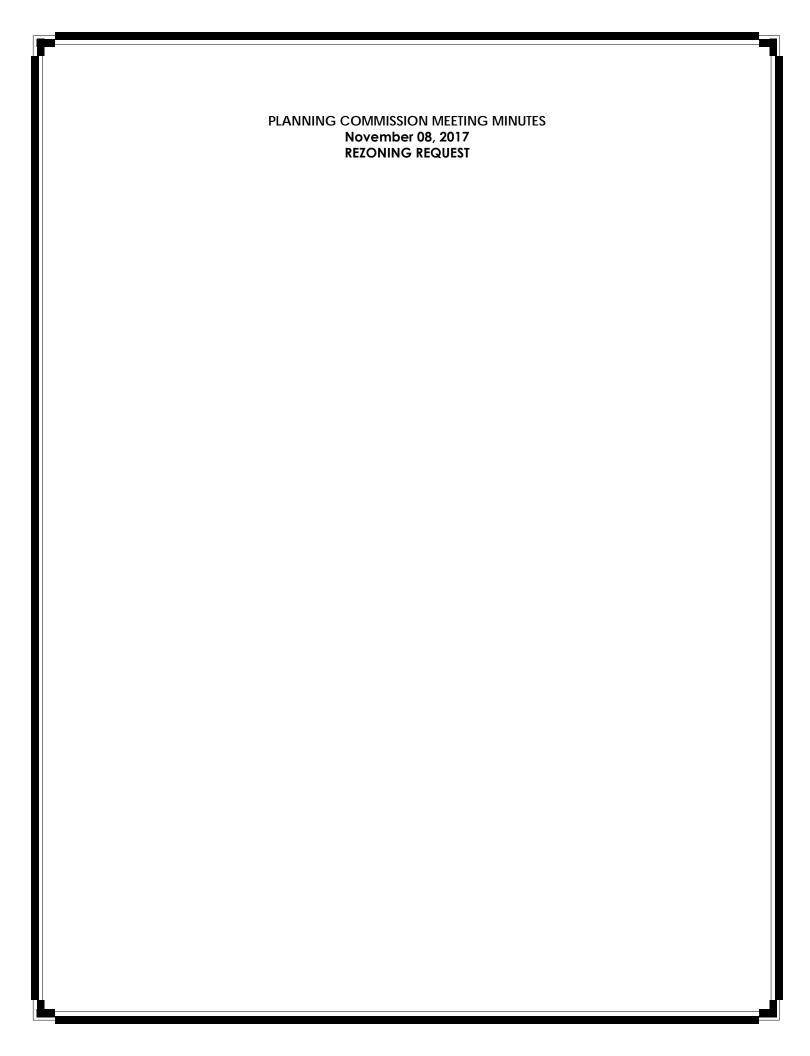
Becky Klein, PE, LEED AP BD+C

Bay DL

**Project Manager** 

Attachment:

Сс



### REGULAR MEETING - PLANNING COMMISSION

#### CITY OF NOVI

November 8, 2017

Proceedings taken in the matter of the PLANNING COMMISSION, at City of Novi, 45175 West Ten Mile Road, Novi, Michigan, on Wednesday, November 8, 2017.

BOARD MEMBERS

Mark Pehrson, Chairperson

David Greco

Tony Anthony

John Avdoulos

Michael Lynch

Ted Zuchlewski

#### ALSO PRESENT:

Barbara, McBeth, City Planner

Elizabeth Saarela, City Attorney

Rick Meader, Landscape Architect

Sri Komaragiri, Planner

Darcy Rechtien, Plan Review Engineer

Certified Shorthand Reporter, Diane Szach

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1	Novi, Michigan.
2	Wednesday, November 8, 2017
3	7:00 p.m.
4	** **
5	CHAIRPERSON PEHRSON: I'd like to
6	call to order the regular Planning Commission meeting
7	of November 8th 2017. Sri, can you call the roll,
8	please.
9	MS. KOMARAGIRI: Good evening.
10	Member Anthony?
11	MR. ANTHONY: Here.
12	MS. KOMARAGIRI: Member Avdoulos?
13	MR. AVDOULOS: Here.
14	MS. KOMARAGIRI: Member Greco?
15	MR. GRECO: Here.
16	MS. KOMARAGIRI: Member Lynch?
17	MR. LYNCH: Here.
18	MS. KOMARAGIRI: Chair Pehrson?
19	CHAIR PEHRSON: Here.
20	MS. KOMARAGIRI: Member Zuchlewski?
21	MR. ZUCHLEWSKI: Here.
22	CHAIR PEHRSON: With that, if we
23	could rise for the Pledge of Allegiance.
24	(Pledge recited.)
25	CHAIR PEHRSON: Thank you. Look

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for a motion to approve or amend the agenda.

MR. LYNCH: Motion to approve.

MR. ANTHONY: Second.

CHAIR PEHRSON: A motion and a

second. All those in favor?

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THE BOARD: Aye.

CHAIR PEHRSON: Anyone opposed?

We have an agenda.

We have several audience

participations on the agenda today. We've come to the first one. If you're here and wish to speak to the Planning Commission on something other than one of the matters for public hearing, please step forward at this time.

Please come to the podium, state your name and address, and you'll have three minutes to be heard.

MR. MIGRIN: Good evening. My name is Karl, K-a-r-l, last name Migrin, M-i-g-r-i-n. I live at 49450 West Nine Mile Road, Novi, Michigan. I just have a question more than anything. I noticed in past public hearings when the residents submit their comment sheets, the secretary doesn't always have the time to read all the comments, and I can understand for time sake that would take a lot of your time to

Page 4 read all the comments. They are public records once 1 2 they are mailed to the Planning Commission and the 3 City. I'm wondering if there's any way that they could be -- that the staff could scan in those 4 5 documents and put them as an attachment to the meeting 6 minutes, because when you read the meeting minutes, 7 there is no comments or no -- from any of the 8 residents on the response form, and it's pretty easy 9 just to scan them all in and put them as an attachment 10 to the meeting minutes. 11 CHAIR PEHRSON: Okay. 12 MR. MIGRIN: Thank you. 13 CHAIR PEHRSON: Ms. McBeth, can you 14 maybe enlighten us? Is that --15 MS. McBETH: We will look into 16 that. There are certain protocols for the minutes, 17 and so we will see what we can do to share that 18 information. 19 CHAIR PEHRSON: Thank you. Anyone 20 else? With that we'll close the first 21 22 audience participation. 23 Correspondence? 24 MR. LYNCH: Just for the public hearings. 25

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1 CHAIR PEHRSON: Committee reports?

2 City Planner Report? Ms. McBeth.

MS. McBETH: Thank you. Good

Evening. Nothing to report.

CHAIR PEHRSON: Very well. We'll go to our first public hearing. Item Number 1 is Erhard BMW of Novi Zoning Map Amendment 18.719. It's a public hearing at the request of Rogvoy Architect, P.C., for Planning Commission's recommendation to City Council for a Zoning Map amendment from NCC (Non-Center Commercial) and OS-1 (Office Service) to GE (Gateway East). The subject property is comprised of two parcels totaling 9.48 acres and it is located on the southwest corner of Grand River Avenue and Meadowbrook Road in Section 23.

Sri, good evening.

MS. KOMARAGIRI: Thank you. The subject property is located at the southwest corner of Grand River Avenue and Meadowbrook Road. The development area is comprised of two parcels as mentioned earlier. The northern parcel is zoned NCC (Non-Center Commercial), and the southern parcel is zoned OS-1 (Office Service.) The property is identified as TC Gateway on our Future Land Use Map. The applicant is requesting to rezone the property to

Page 6

Gateway East, which is supported by the future land use map recommendation.

A pre-application meeting was held for the proposed development on October 3, 2017. At that time staff recommended the applicant to apply for a straight rezoning. If the rezoning is approved, the applicant intends to propose an auto car dealership and a service center for BMW at that location, which could be considered as a Special Development Option in the GE District. As this is not a PRO (Planned Rezoning Overlay), the applicant is not bound to develop a specific plan until after the rezoning has been approved.

The property consists of some regulated wetlands and woodlands. The wetland is associated with a drain that runs from west to east along the south side of the site and appears to drain to Bishop Creek located east of Meadowbrook Road. The mapped regulated woodland areas are indicated along the southern section of the site. The applicant is working with the City staff to determine the exact boundaries for wetlands and provide an accurate tree survey at the time of preliminary site plan.

The City's traffic consultants reviewed rezoning traffic steady provided by the

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applicant and indicated that the proposed use of an auto dealership is projected to produce 2,638 fewer trips than the existing zoning would allow per day. It also produces 11 and 15 additional peak-hour trips, respectively for A.M/P.M, than the maximum allowable density for land-uses under the existing zoning. Traffic requested that the applicant should perform a full-scale Traffic Impact Study at the time of Preliminary Site Plan submittal due to the projected increase in peak hour trips.

Staff recommends approval of the rezoning request for reasons stated in the review letter and also as it is consistent with Future Land Use map recommendations. Our traffic consultant Sterling Frazier and our wetland consultant Pete Hill are here if you have any questions in that regard. The Planning Commission is asked tonight to hold a public hearing and make a recommendation to City Council.

The applicant Ken Widerstedt is here with his architect Mark Drane if you have any questions for them. Thank you.

CHAIR PEHRSON: Thank you. Does the applicant wish to address the Planning Commission at this time?

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MR. DRANE: Good evening. My name is Mark Drane. I'm with Rogvoy Architects. My address is 32500 Telegraph Road, Suite 250, Bingham Farms, Michigan. And I think Sri did a very nice job outlining our proposal and I'm here with Ken to answer any questions.

CHAIR PEHRSON: Very good. This is a public hearing. If there's anyone in the audience that wishes to address the Planning Commission at this time, please step forward on this matter.

Seeing no one, I think we have some correspondence.

MR. LYNCH: Yes, we do. I summarized all three of the objections, and they're primarily concerned about traffic and de-valuation of the property values. The first one is an objection from Jimmie Cranford, Jr., 24963 Bloomfield Court, Novi. Jacob C. Oommen, 41336 Clermont Avenue, Novi. And then Kristie J. Block, 41252 Clermont Avenue in Novi. I have one support from a Joe Haddad, 41490 Grand River Avenue in Novi.

CHAIR PEHRSON: Thank you. With that we'll close the public hearing on this matter and turn it over to the Planning Commission for your consideration.

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You know,

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Member Anthony.

Thank you.

MR. ANTHONY:

this is really two parcels when you look at this, and the top parcel, which is the corner of Grand River and Meadowbrook, you know, it makes sense being consistent with the Future Land Use Plan and there being a type of commercial or retail there. That portion of the property I really don't have a problem with this request on the rezoning. Where I really start to question it and I struggle with a little bit is on the portion that's the OS-1. And part of why I question that is when you take a look at that neighborhood, for instance the neighborhood for Cherryhill, you can see that -- you know, and we've run into this in some other projects as well, is that whenever we look at single-family neighborhoods, we like to have a buffer around us, and that buffer being a multi-family, being office, single-story office with similar roofs. so when I look at this area and I see that we have on Cherryhill single family, and I look at how the buffer has been working, other than what really pre-existed quite a while ago over towards the railroad tracks where you have some industrial, we've done a good job of doing a buffering zone. If you were able to look at an aerial, you'd see towards the north of that

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neighborhood we have multi-family, and we see that behind the main street area, again followed by multi-family, condo, apartments. We just approved another multi-family right on Grand River, which is a nice apartment complex, roofs are matching the theme, they're going with that. But now you take the next step over, and that OS-1 really provides a buffer and it continues that buffer for those neighborhoods, both the neighborhoods on the Cherryhill side and on the Clermont side. And with an office space, if you look at some of the single nearby offices that were approved near there, you know, they have similar roofs, they really do look like they conform.

When we look at -- when we look at a dealership, I think when we look at the front of it we think of it from Grand River and we think, okay, you know, from the front of, Grand River, it fits, it conforms with what we have on Grand River. But if you now go to the back side and you look at that, dealerships are traditionally a large parking lot that is filled with cars. That really seems to be a dramatic departure from what we're seeing. Even in Meadowbrook Commons you have common roof patterns that match the residential neighborhoods. The parking lot areas, and they're substantial parking lot, but yet

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they're low intensity, they're integrated with a park like setting. It's not this high density area. And so you really see more of a -- you get the feeling of a mixed use that is walkable. And now when you integrate the high density parking lot that occurs on the OS-1 portion of the property, it really seems to be a dramatic departure and nonconforming from that area.

And I also think back to about a month ago we were looking at trying to help a transition between industrial-zoned property and single-family residential, and we really looked at trying to grab on to what ordinances that the zoning allowed us to use when we created that buffer, and I think we did the best we could considering that. that was because we were absent of any zoning buffer that would have been between a higher intense use and neighborhoods. And here my reluctance is that in removing the OS-1, we are removing that buffer and we're removing that transition zone. And when we do that, we're always talk about property rights. And we talk about property rights that we have to function within that. My concern is that if we remove that OS-1, we're not considering the rights and reasonable expectations of all of the people, whether they're the

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people that live there in the multi-family or in the single-family. So I'm very hesitant in approving the change on the OS-1 portion.

CHAIR PEHRSON: Thank you. Anyone else?

Member Avdoulos.

MR. AVDOULOS: I had similar concerns, especially that piece of the property, the rear piece let's say, the OS-1, and then across the street where the residential, if you took that property line and you line it up, you know, it's at the halfway point. And I'm looking at an aerial I guess that a little better depicted. It's on one of the write-ups, I think it's Page 4 of 5, and it's right next to where it says Natural Features. But you could see the R-2 development below that.

And if I could ask a question of the architect. I know that there is no concept plan, but if you were to do a layout of this, would we basically have a building up front on Grand River, and the rear would be parking, and then do we know like that corner piece as it shows here, I don't know if that's a wetland that would also act as a buffer to the residential.

MR. DRANE: I think the answer to

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all of those questions are yes. And we do have a concept plan. But I think the answer is that there is a wetland and a buffer, a natural buffer there already. The grade slopes down from high to low from Grand River down to, I'm sorry, I don't know what the back street there is.

CHAIR PEHRSON: Cherryhill.

MR. DRANE: Cherryhill. And our plan, our concept plan doesn't have any development within from the Cherryhill property line going north 125 feet. We have all open area. It's going to be stormwater management, wetlands and landscape buffering.

MR. AVDOULOS: Okay.

MR. DRANE: So the land itself really has its own natural buffer. And I do understand about having that zoning buffer, but our plan doesn't have any buildings back there. Like you said, it's low intensity parking.

MR. AVDOULOS: And I thank you for that. I had the same concerns. I drove by there and then I saw that when I was there and then looking at the plan. And then transitioning from that piece of property to the, you know, multi-use property, you know, I don't feel it's going to be that detrimental.

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I think it follows with the master plan, you know, for land use for the concept of what we're trying to do for that Gateway East area of the city.

So I do have the same concerns, but I think it's appropriate rezoning, and for the fact that when it comes in, we could look if the buffer there is going to be appropriate or if we need to enhance anything.

MR. DRANE: Yes. And I apologize, I didn't answer all of your questions. The building is at the corner with zero lot lines and landscape buffering, but it's very similar frontage as the Cadillac dealership.

MR. AVDOULOS: Right. Okay. Those are my questions.

CHAIR PEHRSON: Thank you, sir.

Member Lynch.

MR. LYNCH: Something very quick.

You know, before we -- if we were to change this from

OS-1 to what you're requesting, what guarantee do we

have that, you know, you're going to maintain. I do

agree that there really has to be a transition there,

and since we're taking the office transition off,

there has to be some sort of buffer to block the

lights, block the view of the parking lot, things like

Page 15 125 feet, you know, sounds like a lot as long 1 as it has foliage in it. I mean, I don't know that we 2 3 have -- I mean, what right --4 CHAIR PEHRSON: We would have a 5 plan to review and approve at that point in time. 6 MR. LYNCH: So we would -- we're 7 not under any --8 CHAIR PEHRSON: No. 9 MR. ANTHONY: Is there a way to put in there an expectation so that it's known that 10 11 when --12 CHAIR PEHRSON: We're doing that 13 right now. Absolutely. 14 MR. LYNCH: Okay. So by approving 15 this, we're putting in the expectation that there is 16 going to be a significant transition? 17 CHAIR PEHRSON: They still have to 18 come before us for the plan. 19 MR. LYNCH: Thank you. 20 CHAIR PEHRSON: Member Zuchlewski. 21 MR. ZUCHLEWSKI: I have a question 22 for Barb. Barb, the OS-1 that we're discussing now, 23 what has been the development community? What kind of interest has there been in this property for the last 24 30 years? 25

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MS. McBETH: So through the chair.

MR. ZUCHLEWSKI: I mean, has

anybody come to us and said, well, we want that piece, that OS-1, and if it stays OS-1, and, you know, somehow Cadillac says, well, we can make or BMW says we can make this work just for conversation, doesn't that OS-1 property, doesn't that become more of a secondary site, and isn't that going to be kind of like the Peachtree site that we're struggling with now not having any exposure, you know, just being buried in effect? And the chance of us having anything else go there, you know, is the chance that great that we have people that want to go on a secondary site like Is that going to stay like that for -- I mean, that? in your opinion? Well, is there any interest in it? MS. McBETH: So through the chair.

In my 16 years as being with the City of Novi, I've known the property owner who owns both parcels who has expressed various interest over the years, but never really taken any action. When the Huntley Manor project came in, at the beginning there was thought they might join forces and do a development together, and that didn't happen for whatever reason.

So I think with the property with the split zoning like that doesn't really offer a

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substantial area for any particular development, and you're right, with the frontage on Meadowbrook Road it wouldn't be as attractive as something on Grand River.

MR. ZUCHLEWSKI: Thank you.

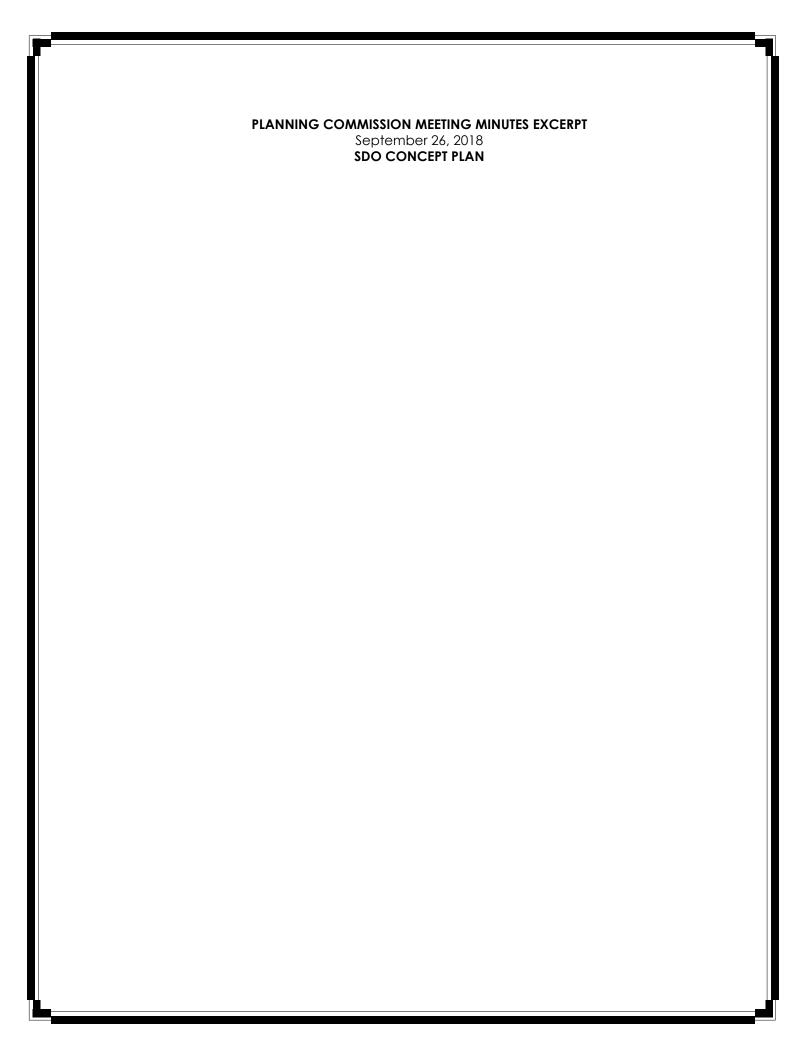
CHAIR PEHRSON: Just my two cents. I agree with everyone's thoughts, and I hope you get the sense of where we're leaning to. I have no issue taking both lots and changing the zoning, because it does fit exactly what I think the master plan was looking for. And I think the expectation of anything that comes back to us would be scrutinized very diligently relative to that buffer that's trying to be between Cherryhill and the dealership. So that's my

Member Greco.

MR. GRECO: Very good. With all of those comments, which I agree with for the most part, I would like to make a motion. In the matter of the request of Erhard BMW of Novi for Zoning Map Amendment 18.719, motion to recommend approval to City Council to rezone the subject property from NCC, Non-Center Commercial, and OS-1, Office Service, to GE, Gateway East, for the reasons set forth on the motion sheet, with the understanding that the applicant will be submitting plans and will be going through a review

two cents.

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1	for what the Planning Commission will be expecting at
2	that time.
3	MR. AVDOULOS: Second.
4	CHAIR PEHRSON: We have a motion by
5	Member Greco, second by Member Avdoulos. Any other
6	comments?
7	Sri, can you call the roll, please.
8	MS. KOMARAGIRI: Member Lynch?
9	MR. LYNCH: Yes.
10	MS. KOMARAGIRI: Chair Pehrson?
11	CHAIR PEHRSON: Yes.
12	MS. KOMARAGIRI: Member Zuchlewski?
13	MR. ZUCHLEWSKI: Yes.
14	MS. KOMARAGIRI: Member Anthony?
15	MR. ANTHONY: No.
16	MS. KOMARAGIRI: Member Avdoulos?
17	MR. AVDOULOS: Yes.
18	MS. KOMARAGIRI: Motion passes 4 to
19	1.
20	CHAIR PEHRSON: Thank you.
21	MS. KOMARAGIRI: Oh, Member Greco.
22	MR. GRECO: Yes.
23	CHAIR PEHRSON: Don't want to leave
24	him out. He made a wonderful motion.
25	MS. KOMARAGIRI: Motion passes 5 to





## PLANNING COMMISSION MINUTES

CITY OF NOVI Regular Meeting

## September 26, 2018 7:00 PM

Council Chambers | Novi Civic Center 45175 W. Ten Mile (248) 347-0475

#### **CALL TO ORDER**

The meeting was called to order at 7:00 PM.

**ROLL CALL** 

Present: Member Avdoulos, Member Greco, Member Lynch, Member Maday,

Chair Pehrson

Absent: Member Anthony (excused)

Also Present: Barbara McBeth, City Planner; Sri Komaragiri, Planner; Lindsay Bell,

Planner; Darcy Rechtien, Staff Engineer; Rick Meader, Landscape Architect; Thomas Schultz, City Attorney; Peter Hill, Environmental Consultant; Maureen Peters, Traffic Consultant; Doug Necci, Façade

Consultant

#### PLEDGE OF ALLEGIANCE

Member Avdoulos led the meeting attendees in the recitation of the Pledge of Allegiance.

#### APPROVAL OF AGENDA

Moved by Member Lynch and seconded by Member Avdoulos.

VOICE VOTE TO APPROVE THE SEPTEMBER 26, 2018 AGENDA MOTION MADE BY MEMBER LYNCH AND SECONDED BY MEMBER AVDOULOS.

Motion to approve the September 26, 2018 Planning Commission Agenda. *Motion carried 5-0.* 

#### **AUDIENCE PARTICIPATION**

Nobody in the audience wished to speak.

#### **CORRESPONDENCE**

There was no correspondence.

#### **COMMITTEE REPORTS**

There were no Committee Reports.

#### **CITY PLANNER REPORT**

City Planner McBeth said there were a couple of items that City Council considered on Monday. The City Council granted tentative approval for the Zoning Map Amendment and Planned Rezoning Overlay agreement for the Adell Center, which is proposed for 21 acres located south of I-96 and west of Novi Road. We expect that that matter will return to

- d. Waiver for driveway spacing of 140 feet from the driveway to the east, where 230 feet is required, which is hereby granted because of constraints on the site and in the Twelve Mile right-of-way;
- e. The conditions and items listed in the staff and consultant review letters being addressed on the Final Site Plan.

This motion is made because the plan is otherwise in compliance with the Article 3, Article 4 and Article 5 of the Zoning Ordinance and all other applicable provisions of the Ordinance. *Motion carried 5-0.* 

ROLL CALL VOTE TO APPROVE WETLAND PERMIT MOTION MADE BY MEMBER LYNCH AND SECONDED BY MEMBER AVDOULOS.

In the matter of Fountain View AKA Stoneridge West II, JSP 18-30, motion to approve the Wetland Permit based on and subject to the findings of compliance with Ordinance standards in the staff and consultant review letters, and the conditions and items listed in those letters being addressed on the Final Site Plan. This motion is made because the plan is otherwise in compliance with Chapter 12, Article V of the Code of Ordinances and all other applicable provisions of the Ordinance. *Motion carried 5-0*.

ROLL CALL VOTE TO APPROVE STORMWATER MANAGEMENT PLAN MOTION MADE BY MEMBER LYNCH AND SECONDED BY MEMBER AVDOULOS.

In the matter of Fountain View AKA Stoneridge West II, JSP 18-30, motion to approve the Stormwater Management Plan based on and subject to the findings of compliance with Ordinance standards in the staff and consultant review letters, and the conditions and items listed in those letters being addressed on the Final Site Plan. This motion is made because the plan is otherwise in compliance with Chapter 11 of the Code of Ordinances and all other applicable provisions of the Ordinance. *Motion carried 5-0*.

#### 3. JAGUAR LAND ROVER JSP17-65

Public Hearing at the request of Erhard Motor Sales, Inc. for Planning Commission's recommendation to City Council for consideration of a Special Development Option Concept Plan in the GE, Gateway East zoning district. The subject property is comprised of two parcels totaling 9.48 acres. It is located on the southwest corner of Grand River Avenue and Meadowbrook Road in section 23. The applicant is proposing to build a 58,663 square feet car sales facility for Jaguar Land Rover. The concept plan proposes 138 parking spaces and 287 parking spaces for storing cars for sale.

Planner Komaragiri said as some of you may be aware, the subject property was rezoned from Non-Center Commercial, NCC, and Office Service, OS-1, districts to Gateway East, GE, at the December 4, 2017 City Council meeting. The applicant is now proposing to use the Special Development Option available under Gateway East zoning to propose an auto car dealership.

The subject property is located at the "entry" area of the Gateway East District, since it is located on one of the four properties at the intersection of Grand River and Meadowbrook. The SDO option allows a non-residential use permitted elsewhere in the Ordinance, but not otherwise permitted in the GE District for one of these properties,

subject to City Council's approval based on Planning Commission's recommendation.

The property is now currently zoned to Gateway East and is bordered by Gateway East to the west, Multiple Family RM-2 to the south, Single Family Residential and OS-1 Office service to the east and Non-Center Commercial to the west and north across Grand River Avenue. Except for the property to the east, all other properties are currently developed or under construction. The Future Land Use map recommends residential land uses to the south and Town Center Gateway district on all other sides.

The Plan indicates one area of wetland on this site located along the southern boundary of the subject site. The current plan is not proposing any impacts to the existing wetlands on site. Regulated woodlands are located in the southwest section of the site. This map is slightly misleading – it shows wetlands in the middle of the property, but they are essentially located to the south.

The subject property is comprised of two parcels totaling 9.48 acres. The applicant is proposing to build a 58,663 square feet car sales facility for Jaguar Land Rover. The proposed facility includes sales and service area located in the southwest corner of the building and also proposes 138 parking spaces for employee and visitors, and 287 parking spaces for storing cars for sale.

At the time of consideration of the rezoning request, the Planning Commission noted that the applicant should maintain a reasonable buffer between the parking lot and the residential uses to the south. A storm water pond is proposed on the south side that also acts a buffer from the residential use on south side of Cherry Hill Road. The site has access from both Meadowbrook Road and Grand River Avenue.

As mentioned before, there are no impacts proposed to the wetlands but there are some impacts proposed within the 25 foot buffer. A total of 149 regulated trees are proposed to be removed, which accounts for up to 48 percent of trees on site. About 172 replacements trees are required, which are proposed to be planted on site at this moment. The Woodland Replacement trees are proposed around the stormwater detention basin, along the west edge of the property, near the loading zone, and within several parking lot islands. The location of the trees in the parking lot islands and perhaps near the loading zone is not consistent with the intent of the Woodland Ordinance; they are hard to be preserved in a conservation easement. The applicant agreed to relocate the trees out of the parking lot.

Traffic review recommends approval with additional comments to be addressed with the Preliminary Site Plan. A Traffic Impact Study would be required based on the trip generation for this site; however, item e. in the motion refers to two options – either to waive the requirement or defer it to the time of Preliminary Site Plan review, as the site falls under the study boundaries for the ongoing study by the City. Staff supports either of those options.

As indicated in the motion sheet, the Concept Plan requires multiple deviations. Staff is in support of all the deviations except for first two items listed in the motion sheet.

The first item refers to the Open Space requirement. 25% of the gross area of each development within the GE District shall be comprised of open space. Substantially all of

the total open space area must be designed as useable space. The plans provided, which were included in the packet, did not provide enough information to make that determination. However, since we uploaded the packets online, the applicant has been actively working with Staff to find alternate options. The revised plans show additional details for the pocket park at the northeast corner shown in the red boundary here and added a trail around the stormwater pond with possible seating around it for employees. The total space provided is now approximately 11.5%. The applicant is suggested to work with staff to find other options to provide more usable open space. However, only a part of the requirement appears to be met. They may require a deviation for not meeting the total percentage.

Façade requires deviations for underage of brick, overage of flat metal panels and overage of horizontal rib metal panels for rooftop screening, all supported by Staff. Façade boards and colored renderings are included in the packet and are available in front of the podium.

Per Section 3.11.8, street corner building should have greater massing and height. The proposed façade did not meet the intent at the time of review. However, as mentioned, the applicant has proposed some changes since then. They propose to drop the grade level at the corner of Grand River and Meadowbrook, and propose to use landscaping design to create interest at the corner instead of using building materials to create the massing. Staff is in agreement with the concept of it, but we still feel like we need to address some details prior to the approval of the SDO Concept Plan.

The applicant has submitted a Noise Impact Statement to address the possible noise concerns, due to the proximity to the residential neighborhood. The report was very well detailed and demonstrates that the noise levels will be kept under the Ordinance minimum. Site lighting is proposed to be turned on all day and night for security reasons. The applicant is suggested to consider reduced lighting for security purposes after hours due to proximity to residential uses. The Planning Commission may consider adding this as an additional condition if the suggestion seems reasonable.

All reviews are recommending approval with additional information to be addressed as noted in the review letters and tonight's presentation.

The Planning Commission is asked tonight to hold the public hearing and make a recommendation to City Council for approval of SDO Concept Plan.

The applicants and staff are here tonight to answer any questions you may have.

Mark Drane, with Rogvoy Architects, said I am the architect for the project and I am representing their group. I'm here to answer questions, it sounded like a mouthful what Sri had but they are very small, minor items. We're here to do a good job.

Chair Pehrson asked if there was anyone in the audience that wished to address the Planning Commission regarding this project. Seeing no one, he asked if there was any correspondence.

Member Lynch said there are two. Jimmie Cranford, 24693 Bloomfield Court, is concerned about the residential neighborhoods on all four sides of the development. If the

development is approved, a berm or wall is suggested at the south and east boundary to provide some separation. And another objection from Jacob Oomen, 41336 Clermont Avenue, said the construction of Jaguar Land Rover will decrease the property value of my home and homes in this area, and he objects to this construction.

Chair Pehrson closed the public hearing and turned it over to the Planning Commission for their consideration.

Member Avdoulos said I have a couple of questions. One to Sri – in the report, you had indicated that right now, you're not recommending approval because of a lot of deviations and things that need to be done. Is that where you are still landing?

Planner Komaragiri said the two major items why we are recommending that is the Open Space requirement, and the Façade and massing. But like I mentioned, the applicant has been working with us. They seem to be moving in the right direction, just a few details need to be worked out.

Member Avdoulos said and then related to Landscaping and buffer with the adjacent residential area, we had some concerns that what they have provided will provide buffering throughout all four seasons. Where are with that?

Landscape Architect Meader said in my opinion, there is sufficient buffering. Along the southern edge along Cherry Hill, there's a ditch with heavy natural – I'm not going to call it native – but natural vegetation there that's going to stay. And then in addition, they're adding two or three more layers of plantings at various heights and types through there. So I think that any view from there is going to extremely screened, I mean if you really look you might be able to see some but I don't think it's anything that's major. They're also extending the berm along the left side down to the wetland buffer and we don't want them to go further, and that's heavily planted with a lot of woodland replacement trees. So in my opinion, they have enough screening. You can always add a few more plants to it, but I'm not sure that's really necessary.

Member Avdoulos said thank you, I just wanted to make sure we had that. Those were my only questions.

Member Greco said before I make a motion, I have a question. On the motion sheet, 1b. Would the Planning Commission prefer that, as we discussed the architectural standards, that the applicant work with the Façade consultant?

Chair Pehrson said I think that's best, in my opinion.

Member Greco said and 1e. the traffic deviation to waive the requirement for the Traffic Impact Study or defer it to the time of Preliminary Site Plan review – are there comments on that?

Member Maday said can we just defer it to the time of Preliminary Site Plan?

Member Avdoulos said I'm okay with that.

Chair Pehrson said that's fine.

Member Greco said okay. With that, I'd like to make a motion.

Motion made by Member Greco and seconded by Member Lynch.

ROLL CALL VOTE TO RECOMMEND APPROVAL OF SDO CONCEPT PLAN MOTION MADE BY MEMBER GRECO AND SECONDED BY MEMBER LYNCH.

- 1. The recommendation shall include the following ordinance deviations:
  - a. The applicant shall work with staff to provide acceptable amount of Open Space as defined in Section 3.11.7 GE District required conditions, prior to City Council's consideration of SDO Concept Plan;
  - b. The applicant shall work with City's Façade consultant to provide alternate design elements to meet the intent of Section 3.11.8;
  - Planning deviation from Section 3.11.8 for absence of required sidewalk along Cherry Hill Road due to existing wetlands;
  - d. Deviations from Section 5.15. Exterior Building Wall Façade Materials for the following:
    - i.Underage of brick (30% minimum required, 25% on north façade and 28% on east façade proposed);
    - ii.Overage of flat metal panels (50% maximum allowed, 58% on north façade and 56% on east façade proposed);
    - iii.Overage of horizontal rib metal panels for roof top screening (0% allowed,17% on north, 16% on east, 12% on south and 18% on west proposed);
  - Defer the Traffic Impact Study to the time of Preliminary Site Plan review, as the site falls under the study boundaries for the ongoing Comprehensive Traffic study by the City;
  - f. Traffic deviation for variance from Design and Construction Standards Section 11-216(d) for not meeting the minimum distance required for same-side commercial driveways along Grand River Avenue;
  - g. Landscape deviation from Section. 5.5.3.E.i.c for lack of street trees along Grand River Road frontage due to lack of space (8 trees required);
  - h. Landscape deviation from Section. 5.5.3.E.i.c for lack of street trees along Cherry Hill Road frontage due to lack of space (8 trees required);
  - Landscape deviation from Section 5.5.3.B.ii and iii for not providing greenbelt berm or plantings in area of wetland in order to preserve wetland along Cheery Hill Road frontage;
  - j. Landscape deviation from Section 5.5.3.B.ii and iii for not providing greenbelt berm or plantings between Cherry Hill and the parking lot area not behind the wetland;
- 2. The Applicant shall comply with the conditions and items listed in the staff and consultant review letters as a requirement noted in the Special Development Option Agreement.

This motion is made based on the following findings:

- a. The project results in a recognizable and substantial benefit to the ultimate users of the project and to the community, where such benefit would otherwise be unfeasible or unlikely to be achieved by a traditional development;
- b. In relation to a development otherwise permissible as a Principal Permitted Use under Section 3.1.16.B the proposed type and density of development does not result in an

- unreasonable increase in the use of public services, facilities and utilities, and does not place an unreasonable burden upon the subject and/or surrounding land and/or property owners and occupants and/or the natural environment;
- c. Based upon proposed uses, layout and design of the overall project, the proposed building facade treatment, the proposed landscaping treatment and the proposed signage, the Special Development Option project will result in a material enhancement to the area of the City in which it is situated;
- d. The proposed development does not have a materially adverse impact upon the Master Plan for Land Use of the City, and is consistent with the intent and spirit of this Section:
- e. In relation to a development otherwise permissible as a Principal Permitted Use under Section 3.1.16.B, the proposed development does not result in an unreasonable negative economic impact upon surrounding properties;
- f. The proposed development contains at least as much usable open space as would be required in this Ordinance in relation to the most dominant use in the development (provided the applicant makes the required revisions);
- g. Each particular proposed use in the development, as well as the size and location of such use, results in and contributes to a reasonable and mutually supportive mix of uses on the site, and a compatibility of uses in harmony with the surrounding area and other downtown areas of the City;
- h. The proposed development is under single ownership and/or control such that there is a single person or entity having responsibility for completing the project in conformity with this Ordinance;
- i. Relative to other feasible uses of the site, the proposed use will not cause any detrimental impact on existing thoroughfares in terms of overall volumes, capacity, safety, vehicular turning patterns, intersections, view obstructions, line of sight, ingress and egress, acceleration/deceleration lanes, off-street parking, off-street loading/unloading, travel times and thoroughfare level of service;
- j. Relative to other feasible uses of the site, the proposed use will not cause any detrimental impact on the capabilities of public services and facilities, including water service, sanitary sewer service, storm water disposal and police and fire protection to service existing and planned uses in the area;
- k. Relative to other feasible uses of the site, the proposed use is compatible with the natural features and characteristics of the land, including existing woodlands, wetlands, watercourses and wildlife habitats;
- Relative to other feasible uses of the site, the proposed use is compatible with adjacent uses of land in terms of location, size, character, and impact on adjacent property or the surrounding neighborhood;
- m. Relative to other feasible uses of the site, the proposed use is consistent with the goals, objectives and recommendations of the City's Master Plan for Land Use.
- n. Relative to other feasible uses of the site, the proposed use will promote the use of land in a socially and economically desirable manner; and
- o. Relative to other feasible uses of the site, the proposed use is (1) listed among the provision of uses requiring special land use review as set forth in the various zoning districts of this Ordinance, and (2) is in harmony with the purposes and conforms to the applicable site design regulations of the zoning district in which it is located.

Motion carried 5-0.

#### 4. KEFORD COLLISION AND TOWING JZ18-32 with REZONING 18.725

Public hearing at the request of Keford Collision and Towing for Planning

- j. City Council variance from Sec. 11-239(b)(1),(2)of Novi City Code for absence of hard surface for parking lot and driveway;
- k. City Council variance from Sec. 11-239(b)(1),(2)of Novi City Code for absence of curb and gutter for parking lot and driveway;
- I. City Council variance from Sec. 11-239(b)(3) of Novi City Code for absence of pavement markings and layout including end islands;
- m. City Council approval for lack of required Traffic Impact study based on existing conditions and proposed mitigation measures near Beck Road and Eleven Mile Road entrances;
- n. The findings of compliance with Ordinance standards in the staff and consultant review letters, and the conditions and items listed in those letters being addressed on the Final Site Plan.

This motion is made because the plan is otherwise in compliance with Article 3, Article 4 and Article 5 of the Zoning Ordinance and all other applicable provisions of the Ordinance. *Motion carried 4-1 (Lynch)*.

ROLL CALL VOTE TO APPROVE STORMWATER MANAGEMENT PLAN MOTION MADE BY MEMBER GRECO AND SECONDED BY MEMBER AVDOULOS.

In the matter of City of Novi Bosco Park, JSP 18-42, motion to approve the Stormwater Management Plan, based on and subject to the findings of compliance with Ordinance standards in the staff and consultant review letters, and the conditions and items listed in those letters being addressed on the Final Site Plan. This motion is made because it otherwise in compliance with Chapter 11 of the Code of Ordinances and all other applicable provisions of the Ordinance. *Motion carried 4-1 (Lynch)*.

#### SUPPLEMENTAL ISSUES

City Planner McBeth said because of the Planning Commission calendar for the year, we have another meeting next week. So we look forward to seeing you here again next week.

#### **AUDIENCE PARTICIPATION**

Nobody in the audience wished to speak.

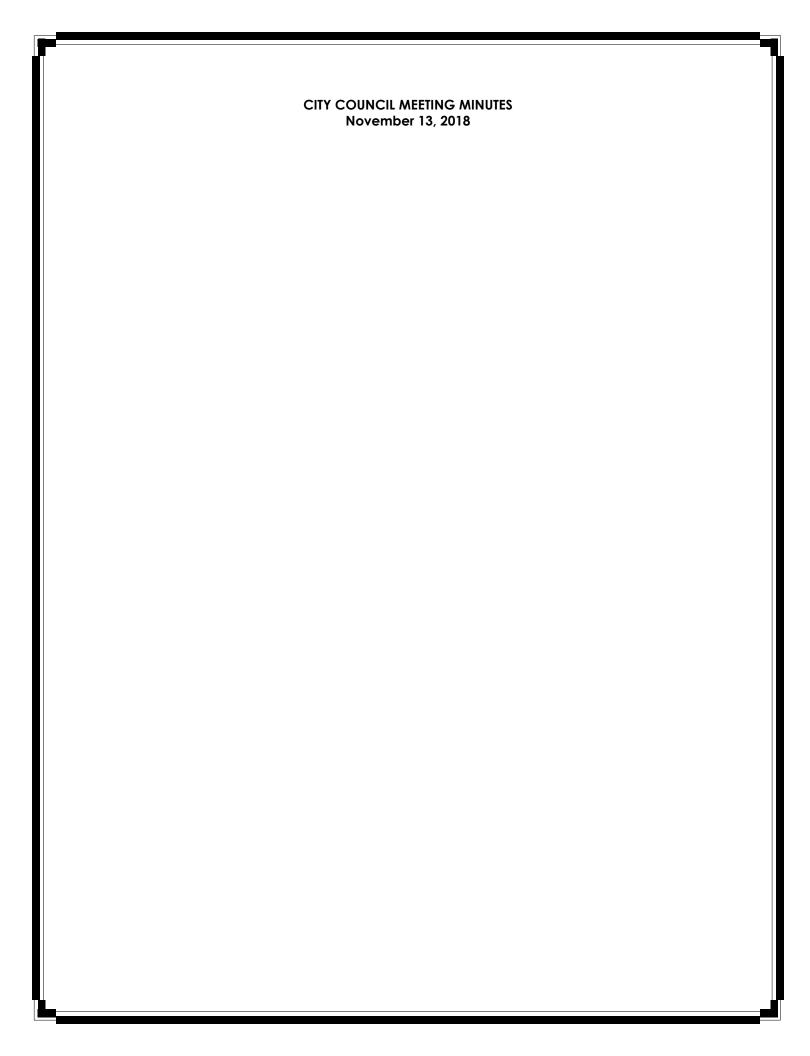
#### **ADJOURNMENT**

Moved by Member Lynch and seconded by Member Avdoulos.

VOICE VOTE ON THE MOTION TO ADJOURN MADE BY MEMBER LYNCH AND SECONDED BY MEMBER AVDOULOS.

Motion to adjourn the September 26, 2018 Planning Commission meeting. *Motion carried 5-0.* 

The meeting was adjourned at 9:16 PM.



# REGULAR MEETING OF THE COUNCIL OF THE CITY OF NOVI MONDAY, NOVEMBER 13, 2018 AT 7:00 P.M. COUNCIL CHAMBERS – NOVI CIVIC CENTER – 45175 TEN MILE ROAD

Mayor Gatt called the meeting to order at 7:00 P.M.

#### PLEDGE OF ALLEGIANCE

**ROLL CALL:** Mayor Gatt, Mayor Pro Tem Staudt, Council Members Breen,

Casey, Markham, Mutch (absent, excused)

**ALSO PRESENT:** Pete Auger, City Manager

Victor Cardenas, Assistant City Manager

Thomas Schultz, City Attorney Barb McBeth, City Planner

#### **APPROVAL OF AGENDA:**

Mayor Gatt added Committee Assignments to Mayor and Council Issues.

CM 18-11-173 Moved by Casey, seconded by Breen; MOTION CARRIED: 5-0

Roll call vote on CM 18-11-173 Yeas: Staudt, Breen, Casey, Markham, Gatt

Nays: None Absent: Mutch

#### **PUBLIC HEARING:**

 Erhard Motor Sales, Inc., Special Development Option Concept Plan: The subject property is 9.48 acres in Section 23 of the City of Novi and located at the southwest corner of Grand River Avenue and Meadowbrook Road in the GE, Gateway East District. The applicant is proposing a 58,663 square foot car sales facility for Jaguar Land Rover.

Public hearing opened at 7:01PM

Becky Staab, 41887 Cherry Hill, Novi said she has lived on Cherry Hill more than 30 years. She said that she had been notified when this property was going to be a bowling alley. They were also notified when it was going to be a medical center. They were not notified about this until the public hearing was published on the back page of the Novi News. She believed there would be residents from Meadowbrook Glens if they knew this was happening. She was shocked to find that this was approved as a BMW dealership a year ago, they never heard about that either. They had several concerns. They are concerned about traffic. Because of 10 Mile congestion, Cherry Hill has become the primary entrance and exit for Meadowbrook Glens. She said if you want to go east you cannot get out on the other two streets. When they looked at plans, they saw something about a pedestrian connectivity. When they looked at the plans it had something about a pathway from the service department to Cherry Hill. She was concerned about that. Unless they live in Meadowbrook Glens or live in the Senior Citizen Center, there is no reason to have a pathway into the Meadowbrook Glens

Subdivision. She said she was glad they are preserving wetlands. She said when the City built the Senior Center; they got everyone in Meadowbrook Glens together and discussed concerns. At that time in the plan, the entrance onto Cherry Hill was going to be a driveway with a break-away gate for emergency only. The driveway is there, but there is no break-away gate. Because of that, the City decided they needed a light at Cherry Hill and Meadowbrook Rd. She said they are concerned however this is approved, they will put a driveway onto Cherry Hill. Lastly the plan calls for a right turn lane off Meadowbrook onto Cherry Hill. There is a right hand turn lane onto Cherry Hill and they will put their entrance which will encroach on that turn lane. Exactly where the turn lane starts, there is a fire hydrant. The plan says they are going to elongate and taper the right hand turn lane. If you extend that any farther north, you will be on Grand River. So you will go from the right hand turn lane on Grand River, to the right hand turn lane on Meadowbrook that will either lead you into the dealership or onto Cherry Hill. She thought that was way too much. We do agree when they looked at the plan, it said it will not have a berm. That's great, leave wetlands alone. No sidewalk is ok. There is a sidewalk on the other side of the road. She said she was concerned that it is the letter of the law and what is common sense. The three letters that you have in your packet that have a problem with this are people who live in the subdivision across the street of Meadowbrook. They will be less affected. We on Cherry Hill closes to this and on Kings Pointe didn't receive anything because we are not within the area of "what they had to do". Sometimes you need to use common sense and send things to people who will be affected. She said she hoped they would some of her concerns into account when approving it as it is drawn the way it is now.

Public hearing closed at 7:06 PM

#### **PRESENTATIONS:**

 Novi Road and Grand River Avenue Area Multi-Development Traffic Impact Study -AECOM

Maureen Peters, representative from AECOM highlighted the presentation on the traffic study. Earlier this year as development started to boom in that area, they embarked on multi-development traffic study. As part of that, the City contacted AECOM. She said the general study area included Novi Road/Grand River between 10 Mile and 12 Oaks Mall and generally between Novi Road and Meadowbrook. The first analysis looked at existing conditions. As part of that it was discovered Novi Road and Grand River intersection was over-capacity under existing conditions. Several other turning movements were seeing poor operations as well. From there the City and AECOM determined which developments should be incorporated into the study that might have an impact on this general area. They were further defined into two general categories considered as background developments or those that had already been approved or were expected to be approved in the near term. The other category would be future developments not within few months month. She said moving into the background conditions analysis the team decided to project traffic out to the year to 2028 with the assumption that they would be built by then. In order to get to the year

as a part of the Emerson Park development, located on the west side of Novi Road, north of Ten Mile Road, in Section 22 of the City.

- H. Approval to award a unit price contract for Street Sweeping Services to G&M Enterprises, Ltd, the low bidder, for a one-year term with two one-year renewal options at an estimated annual cost of \$78,168.
- I. Approval of a Street Light Purchase Agreement with The Detroit Edison Company for the installation and operating cost of seven (7) street lights; one (1) at the entrance of Manchester on Novi Road, and six (6) along the Manchester development frontage on Novi Road, and approval of an agreement with Manchester 13 Mile Road, LLC, for the sharing of installation and ongoing operation costs per the City's Street Lighting Policy.
- J. Approval of a Quit Claim Deed for a parcel located on the southwest corner of 12 Mile Road and Taft Road to dedicate the 60-foot master planned right-of-way along 12 Mile Road to the Road Commission for Oakland County (parcel 50-22-16-226-019).
- K. Approval of Claims and Accounts Warrant No. 1023

CM 18-11-174 Moved by Staudt, seconded by Markham; MOTION CARRIED: 5-0

To approve the Consent Agenda as amended.

Roll call vote on CM 18-11-174 Yeas: Breen, Casey, Markham, Gatt, Staudt

Nays: None Absent: Mutch

#### MATTERS FOR COUNCIL ACTION

 Consideration for tentative approval of the request of Erhard Motor Sales, Inc., for a Special Development Option (SDO) Concept Plan in the GE, Gateway East District. The subject property is 9.48 acres of land located at the southwest corner of Grand River Avenue and Meadowbrook Road, in Section 23. The applicant is proposing a 58,663 square foot car sales facility for Jaguar Land Rover.

Mark Drane said he was there representing Rogvoy Architects and he would answer any questions.

Member Casey stated that this issue was in front of Council as a rezoning request for an auto dealership back in November 2017. At that time she identified that the dealership in question was a competitor to the dealership across the street who sells vehicles that are made by her employer General Motors. She stated at that time the she did not think she could be objective on the questions and her colleagues allowed her recusal.

This issue is before us again, the only difference is the dealership has changed but the segment has not and this dealership in questions is still a competitor for the dealership across the street that sells vehicles from her employer. She requested that her colleagues grant her a recusal from her.

CM 18-11-175 Moved by Staudt, seconded by Gatt; MOTION CARRIED: 5-0

To approve Member Casey's request for recusal.

Roll call votes on CM 18-11-175 Yeas: Casey, Markham, Gatt, Staudt, Breen

Nays: None Absent: Mutch

Member Casey abstained from voting, left Council Chambers during the discussion, and returned after the vote had been taken.

Mayor Pro Tem Staudt asked if somebody took notes of the audience participation regarding this particular subject. He asked City Planner McBeth to step up and address some of the issues that had been brought up during the public hearing.

City Planner McBeth said she did take a few notes, but she didn't think she would have to answer them directly, she said she would do her best. She recalled there was one question specifically about the pedestrian access. She said that believed it was the walkway that went around pond in the open space, not a direct access from Cherry Hill. It was part of the required open space. The walkway enhances open space in pedestrian areas. She mentioned the question about the taper along Grand River and that has been analyzed in terms of concept plan. It was generally acceptable as a concept plan, but would be reviewed in more detail when preliminary site plan comes forward. She said there was reference to a fire hydrant and she said they would have to take a look at that in more detail as well. Mayor Pro Tem Staudt wondered if this property was part of the old landfill. He stated that this property has been sitting empty as long as he has lived in Novi. There have been challenges in developing it. What's changed without having remediation to property? City Planner McBeth said there has been extensive review of this by the applicant, they did a community impact statement as well as soil borings to find out what's there. The Applicant has strong interest in locating in this spot. It was rezoned consistent to the Master Plan and it is one of the uses that Council could consider as a permitted use because of this location. Mayor Pro Tem Staudt asked the architect for his comment on traffic. He asked for a comment on the traffic study, because basically between 4 PM and 6 PM it's gridlock. This will be directly in front of the dealership and people will need access to it. What is your clients view? Mr. Drane said the client thought it was a nice site, perfect size and location. He said they understood there will be some challenges at certain points of day for access. He said the way it is currently zoned it would have generated more traffic than what they anticipated creating with this project. It is an auto dealer, drop off in morning and pick up in evening. Mayor Pro Tem Staudt wondered if there would there be carriers in the off hours. His experience when approaching the Suburban Collection is that auto carrier's like to park there in afternoon which causes greater traffic. He wondered if there has been any discussion that will help remediate traffic around the dealership, like delivery of vehicles. Mr. Drane said they will be able to handle the delivery of the vehicle within the site, not on Grand River. He said generally they are done at non-peak hours. Mayor Pro Tem Staudt said he wanted to hear in the non-peak hours. He stated that this has been tough site to develop. When they heard about car dealership there they asked why. He said on the flip side its great location and city to be in.

Member Markham said she was interested if there were efforts towards sustainability in the design of this. She wondered specifically are you using permeable pavements, renewal energy, native plants, and capture runoff from pavement. Mr. Drane said that they are meeting or exceeding all of the City's wetland and woodlands, and stormwater management ordinance requirements. He said they can take efforts to do interior finishes with low VOC's and low light levels. They have high insulation and state of the art HVAC equipment.

Member Breen said originally when this came to Council it was BMW dealership proposal. Why now has it changed? Mr. Drane said Earhart's BMW is down the street. They wanted to relocate, but BMW of North America wouldn't let them use the Earhart name. That would be a huge brand killer for them. They will remodel existing facility and move Land Rover and Jaquar dealerships and combine them where they can use the Earhart name. Member Breen wondered if the Jaguar facility was relocating. Mr. Drane said it was Farmington Hills dealership and it will relocate here. Member Breen had questions for staff. She asked if the residents had been notified for other developments, but not this one and she wondered why? City Planner McBeth said the notification procedures are set by ordinance and they followed ordinance. Member Breen wondered if they were notified before about rezoning, why didn't they receive it now? City Planner McBeth said they could look into it. It occurred many years ago and ordinance may have been different. When property was rezoned last year, there were signs on property that would have notified public. Member Breen stated this is a recurring theme whenever we rezone something. We have certain perimeter that we notify and people who live close don't get notified. The City needs to think about this and notify people beyond what current ordinance calls for so nearby residents are notified. They went through traffic study and there will be impact above threshold. She was concerned we keep changing Master Plan for a single parcel. Coupled with lack of notice, it troubles her. She would like to see if colleagues have comments.

### CM 18-11-176 Moved by Staudt, seconded by Gatt; MOTION CARRIED: 3-1

In the matter of Jaguar JSP17-65 motion to approve the Special Development Option Concept Plan, and direction to the City Attorney to prepare a Special Development Option (SDO) Agreement to return to the City Council for consideration and approval.

- 1. This motion is based on following conditions and deviations:
  - a. The applicant shall work with staff to provide acceptable amount of Open Space as defined in Section 3.11.7 GE District required conditions, prior to City Council's consideration of SDO Concept Plan;
  - b. The applicant shall work with City's Façade consultant to provide alternate design elements to meet the intent of Section 3.11.8;
  - Planning deviation from Section 3.11.8 for absence of required sidewalk along Cherry Hill Road due to existing wetlands;
  - d. Deviations from Section 5.15. Exterior Building Wall Façade Materials for the following:
    - i.Underage of brick (30% minimum required, 25% on north façade and 28% on east façade proposed);
    - ii.Overage of flat metal panels (50% maximum allowed, 58% on north façade and 56% on east façade proposed);
    - iii.Overage of horizontal rib metal panels for roof top screening (0% allowed,17% on north, 16% on east, 12% on south and 18% on west proposed);
  - e. Defer the Traffic Impact Study to the time of Preliminary Site Plan review, as the site falls under the study boundaries for the ongoing Comprehensive Traffic study by the City;
  - f. Traffic deviation for variance from Design and Construction Standards Section 11-216(d) for not meeting the minimum distance required for same-side commercial driveways along Grand River Avenue;
  - g. Landscape deviation from Section. 5.5.3.E.i.c for lack of street trees along Grand River Road frontage due to lack of space (8 trees required);
  - Landscape deviation from Section. 5.5.3.E.i.c for lack of street trees along Cherry Hill Road frontage due to lack of space (8 trees required);
  - Landscape deviation from Section 5.5.3.B.ii and iii for not providing greenbelt berm or plantings in area of wetland in order to preserve wetland along Cherry Hill Road frontage;
  - j. Landscape deviation from Section 5.5.3.B.ii and iii for not providing greenbelt berm or plantings between Cherry Hill and the parking lot area not behind the wetland;
  - k. The Applicant shall comply with the conditions and items listed in the staff and consultant review letters as a requirement noted in the Special Development Option Agreement.

- The applicant's compliance with the conditions and items listed in the staff and consultant review letters shall be noted in the Special Development Option Agreement.
- 3. The City Council authorizes the approval of the SDO Concept Plan which consists of a non-residential use permitted elsewhere in this Zoning Ordinance but not otherwise permitted in the GE district, on the condition that such use meets all of the following criteria, as determined by the City Council:
  - a. The proposed use exemplifies the intent of the GE district as stated in Section 3.1.16.A, and the intent of the SDO as stated in Section 3.1.16. (since the proposed plan provides for a high-quality and distinctive development that will complement and support the City's Main Street/Town Center area.)
  - b. The proposed use incorporates as a predominant physical component of the development that provides a unique entry feature along Grand River Avenue for the GE district, characterized by a distinct, high-profile appearance (since, in the opinion of the City's Façade consultant and Landscape Architect, the rendering provided by the applicant after the preparation of the review letters, provides a unique entry feature including a small park and attractive landscaping).
  - c. The proposed use is compatible with, and will promote, the uses permitted with the GE district and SDO.
  - d. The proposed use will not create an inconsistency with the City's Master Plan for Land Use in terms of the general activities on the site and the impacts upon the surrounding area (since the area is developed with commercial and multiple family uses, and landscape buffering is being provided to the extent possible).
  - e. The proposed use is designed in a manner that will result in traffic and pedestrian safely, consistent with the adjoining pedestrian and vehicular thoroughfares (as noted in the Traffic Engineer's Review letter).
  - f. The proposed use is designed with exceptional aesthetic quality, including building design, building materials and landscaping design, not likely to be achieved except based upon this authorization (since, in the opinion of the City's Façade consultant and Landscape Architect, the rendering provided by the applicant after the preparation of the review letters, provides a unique entry feature including a small park and attractive landscaping).

#### 4. This motion is made based on the following findings:

- a. The project results in a recognizable and substantial benefit to the ultimate users of the project and to the community, where such benefit would otherwise be unfeasible or unlikely to be achieved by a traditional development;
- b. In relation to a development otherwise permissible as a Principal Permitted Use under Section 3.1.16.B the proposed type and density of development does not result in an unreasonable increase in the use of public services, facilities and utilities, and does not place an unreasonable burden upon the subject and/or surrounding land and/or property owners and occupants and/or the natural environment (as noted in the Community Impact Statement);
- c. Based upon proposed uses, layout and design of the overall project, the proposed building facade treatment, the proposed landscaping treatment and the proposed signage, the Special Development Option project will result in a material enhancement to the area of the City in which it is situated (as the proposed corner park and building facade are designed to enhance the gateway to Town Center);
- d. The proposed development does not have a materially adverse impact upon the Master Plan for Land Use of the City, and is consistent with the intent and spirit of the Zoning Ordinance (as the development is consistent with the standards provided for the Special Development Option, particularly related to the four corners of the intersection of Grand River and Meadowbrook Road);
- e. In relation to a development otherwise permissible as a Principal Permitted Use under Section 3.1.16.B, the proposed development does not result in an unreasonable negative economic impact upon surrounding properties (as the proposed use is comparable to the vehicle dealership on the opposite corner, and the proposed placement of the building near Grand River Avenue and Meadowbrook Road Right of Way, along with the proposed landscaping provide buffers to the nearby residential uses);
- f. The proposed development contains at least as much usable open space as would be required in this Ordinance in relation to the most dominant use in the development (as the applicant has provided two usable open space areas for public use as part of the development);
- g. Each particular proposed use in the development, as well as the size and location of such use, results in and contributes to a reasonable and mutually supportive mix of uses on the

site, and a compatibility of uses in harmony with the surrounding area and other downtown areas of the City (as the use is compatible with an existing car dealership use on the northeast corner of Grand River Avenue and Meadowbrook Road, and other commercial uses along Grand River;

- h. The proposed development is under single ownership and/or control such that there is a single person or entity having responsibility for completing the project in conformity with this Ordinance (as the proposed development is owned and operated by Erhard Motor Sales, Inc.);
- i. Relative to other feasible uses of the site, the proposed use will not cause any detrimental impact on existing thoroughfares in terms of overall volumes, capacity, safety, vehicular turning patterns, intersections, view obstructions, line of sight, ingress and egress, acceleration/deceleration lanes, off-street parking, off-street loading/unloading, travel times and thoroughfare level of service (as noted in Traffic Engineering review letter);
- j. Relative to other feasible uses of the site, the proposed use will not cause any detrimental impact on the capabilities of public services and facilities, including water service, sanitary sewer service, storm water disposal and police and fire protection to service existing and planned uses in the area (as noted in the Community Impact Statement);
- k. Relative to other feasible uses of the site, the proposed use is compatible with the natural features and characteristics of the land, including existing woodlands, wetlands, watercourses and wildlife habitats (as the plan does not propose any impacts to wetlands and acceptable impacts to woodlands and wetlands buffers);
- Relative to other feasible uses of the site, the proposed use is compatible with adjacent uses of land in terms of location, size, character, and impact on adjacent property or the surrounding neighborhood (as noted in the Community Impact Statement);
- m. Relative to other feasible uses of the site, the proposed use is consistent with the goals, objectives and recommendations of the City's Master Plan for Land Use (as the development fosters economic growth);
- Relative to other feasible uses of the site, the proposed use will promote the use of land in a socially and economically desirable manner; and
- Relative to other feasible uses of the site, the proposed use is
   (1) listed among the provision of uses requiring special land use review as set forth in the various zoning districts of this

Ordinance, and (2) is in harmony with the purposes and conforms to the applicable site design regulations of the zoning district in which it is located.

Roll call vote on CM 18-11-176 Yeas: Markham, Gatt, Staudt

Nays: Breen Absent: Mutch Abstain: Casey

Member Casey returned to the Council Chambers at 8:11 PM.

2. Consideration for tentative approval of the request of Keford Collision and Towing, JSP 18-31, with Zoning Map Amendment 18.725, to rezone property in Section 15, located on the south side of Grand River Avenue, east of Taft Road, from I-1 (Light Industrial) to I-2 (General Industrial) with a Planned Rezoning Overlay (PRO) and corresponding Concept Plan. The property totals 7.61 acres and contains two existing buildings. The applicant is proposing to reuse the existing larger building (23,493 square feet) for an auto body collision repair shop and related offices, with accessory car rental services, and use the rear portion of the property as a vehicle tow yard.

David Landry addressed City Council on behalf of Keford Collision and Towing. Mr. Landry said they were there on behalf of an application for rezoning with PRO overlay. He said it was 7.6 acres which is currently Zoned I-1, Light Industrial and they want to rezone it to Zoned I-2 simply and to limit the I-2 uses to the auto engine and body repair and outdoor storage. He said the reason is that they are losing their lease. Keford Collision and Towing has been in Novi over 30 years. The property is owned by Mercedes Benz. They received notice a year ago that Mercedes Benz received notice from Germany that they want to move into our building. They have been wonderful landlords, and they have had a great relationship them. They said unfortunately Germany wants them to expand. They don't want to leave Novi. Keford is a reputable company. The City has done business with them for years. The simply need a place to stay in Novi. This site is perfect. This particular site is moving to a less congested place. He said it is surrounded on three sides by industrial property. The south is residential, but no residents will ever live there because it's a regional stormwater detention area. All property is owned by City of Novi. It never will be populated as residence. The rear is completely screened by existing building which covers north end of this. You won't see cars being stored from Grand River because of screening. He said that the existing use is Industrial which it has been since the 1940's. It has been operated by a company called Amcorp since 1987. They manufacture and assemble large machinery. They did a Phase 1 Report and it was reported that the interior was loaded with solvents, oils, petroleum projects, with concerns about leaking onto ground. He said then they did a Phase 2 Report and luckily it came up that there were no volatiles on this property and no reason why it has to be remediated. They did find some soil there is arsenic and chromium. When the City built the stormwater detention, they added dirt which now contains arsenic and chromium. That will not require anything more than baseline