

## ADELL CENTER ROAD AND UTILITIES JSP 18-27

## ADELL CENTER ROADS AND UTILITIES JSP 18-27

Public hearing at the request of Orville Properties, LLC for Adell Center JSP 18-27 for Planning Commission's recommendation to City Council for approval of a Site Plan for Roads and Utilities, a Wetland Permit, a Woodland Permit and a Site Condominium Plan. The subject property is approximately 22.48-acres and is located at 43700 Expo Center Drive, north of Grand River Avenue and south of I-96 in Section 15. The applicant is proposing to develop the property as a multi-unit commercial development consisting of nine units accessed by a proposed private drive. The existing water tower on site will remain on a separate unit.

The property is the subject of a *pending* rezoning request, using the Planned Rezoning Overlay (PRO) process. That rezoning process is not complete. A public hearing has been held before the Planning Commission, which has recommended approval to the City Council. However, the City Council has not yet reviewed the PRO request for tentative approval, and there is no PRO Agreement proposed or entered into as required by the PRO ordinance. Despite the fact that the PRO rezoning process is not complete, the applicant has requested preliminary site plan review as to its roads and utilities. The City has indicated that it will review the preliminary site plan, at the applicant's request, but that any review and approval will necessarily be subject to the rezoning of the property, and that the applicant bears any and all risk that the rezoning may not occur and that any review and approval of the preliminary site plan(s) would be for naught.

## **Required Action**

Recommendation to the City Council for approval or denial for Preliminary Site Plan for Roads and Utilities, a Wetland Permit, a Woodland Permit and a Site Condominium Plan

REVIEW	RESULT	DATE	COMMENTS
Planning	Recommends approval <i>c</i> ontingent upon City Council's approval of the PRO plan and PRO Agreement.	08-16-18	<ul> <li>Deviations requested from the following standards:         <ul> <li>Frontage on public road</li> <li>Lots in floodplain</li> <li>Side lot lines</li> <li>Open space</li> <li>Lighting and photometric</li> </ul> </li> </ul>
Engineering	Approval recommended	08-16-18	<ul> <li>Deviation for stub street, length of cul-de-sac, gravel surface for secondary access required</li> <li>Additional items to be addressed with Final Site Plan</li> </ul>
Landscaping	Approval recommended	08-08-18	Additional items to be addressed with Final Site Plan
Wetlands	Approval contingent on restoration plan	08-13-18	<ul> <li>A City of Novi non-minor Wetland permit would be required at the time of site plan approval</li> <li>A Wetlands restoration plan is provided</li> </ul>
Restoration Plan	Approval recommended	09-05-18	Additional items to be addressed with Final Site Plan
Woodlands	Approval	08-13-18	A City of Novi Woodland permit is required

	contingent on restoration plan		
Traffic	Approval recommended	08-17-18	<ul> <li>Lack of traffic study due to City's comprehensive traffic study</li> <li>Three lanes required for proposed Adell Drive</li> <li>Additional items to be addressed with Final Site Plan</li> </ul>
Fire	Approval recommended with Conditions	07-27-18	<ul> <li>Additional items to be addressed with Final Site Plan</li> </ul>

## Motion sheet

## Approval

In the matter of the request of Orville Properties, LLC, for the Adell Center JSP 18-27, motion to **recommend approval** to the City Council for Preliminary Site Plan for Roads and Utilities with a site condominium, based on and subject to the following:

- 1. The-is review and recommendation with respect to approval of the Preliminary Site Plan is being conducted at the applicant's request before the PRO rezoning process has been completed by the City Council. The applicant has acknowledged as part of its submission of this request that the City Council has not yet reviewed its PRO concept Plan and proposal and that there is no PRO Agreement between the City and the applicant. The City Council might or might not approve the rezoning. The following provisions are therefore completely contingent on approval by the City Council of the PRO rezoning through the PRO Concept Plan and PRO Agreement at the City Council as required by the ordinance, and if those approvals do not occur, then any approval of the preliminary site plan is null and void, and of no force or effect whatsoever, as the applicant has been approval, might not occur, and has determined to bear the risk that such approval might not occur, including but not limited to all of the costs incurred in the preparation of the preliminary plans before rezoning is even granted.
- 2. This recommendation for Preliminary Site Plan approval is therefore granted subject to completion of the of the PRO Concept Plan and PRO Agreement process, and any and all requirements that result from such approval, if it is granted; at a minimum, the Planning Commission the following deviations would need to be granted as part of the City Council's PRO rezoning process in order for the preliminary site plan to be approved as prepared:
  - a. Planning deviation from Section 5.12 to allow lack of required frontage on public road for Units 1 through 8. Frontage is proposed a proposed private drive, built to City standards;
  - b. Planning deviation to allow lack of required frontage on public road as listed in section 5.12 for Unit 9. Frontage is proposed on a private access/secondary emergency access drive;
  - c. Traffic deviation from Section 11-194(a)(7)of Design and Constructions Standards Manual to allow exceeding the maximum allowable length of the proposed cul-de-sac street length of 800 feet, from the centerline intersection of Crescent Boulevard to the center of the bulb of the Adell Center Drive cul-de-sac. A maximum of 1,540 feet is proposed;
  - d. Planning deviation from Section 3.1.25.B& C to allow the water tower is to remain on its own separate site (Unit 9). This is not a principal permitted use of a site. It is also not considered an accessory use, since its proposed use is not detailed; provided that the creation of a new, separate legal parcel of limited size for the purpose of housing the tower on its own shall be addressed in the PRO Agreement including, but not limited to, the prohibition of future uses in the event the tower is removed and requirements relating to maintenance obligations;
  - e. Planning deviation to allow partial rear yards for Units 3, 4 and 5 to be located within the floodplain, as listed in section 4.03A of Subdivision Ordinance, provided there is no danger to health, life or property are proposed. There appears to be no impacts proposed for Units 3 and 5. A pedestrian bridge is proposed on Unit 4;
  - f. Planning deviation to allow proposing the minimum required Open Space for each Unit as Common element spread within the development boundaries as shown in the Open Space Plan, provided the applicant restores the wetland/woodland on the southerly portion of the site pursuant to a plan meeting City ordinance requirements is submitted

and approved at the time of Wetland permit/preliminary site plan approval, and provides the pedestrian walkway through the open space as proposed. (A minimum of 15% of total site area designed as permanently landscaped open areas and pedestrian plazas is required per section 3.27.1.F.);

- g. Traffic deviation from section 7.13.1.D.to waive the requirement for required Traffic Impact Study as the site falls under the study boundaries for the ongoing Comprehensive Traffic study by the City;
- h. Planning deviation from Section 5.7.3.K. to allow exceeding the maximum spillover of 1 foot candle along interior side property lines provided the applicant submits a photometric plan that demonstrates that the average to minimum light level ratio is kept the maximum allowable 4:1;
- i. Planning deviation to allow exceeding the maximum spillover of 1 foot candle and approvable increase of the average to minimum light level ration from 4:1 within the Adell Drive pavement areas as listed in Section 5.7.3.K. along access easements along Adell Drive, at the time of or Preliminary Site Plan review for the individual units;
- j. Engineering deviation from Section 4.04, Article IV, Appendix C-Subdivision ordinance of City Code of Ordinances for absence of a stub street required at 1,300 feet interval along the property boundary to provide connection to the adjacent property boundary;
- k. Engineering deviation from Section 11-194(a)19 of the Design and Construction Standards for allowing gravel surface for the secondary emergency access road within Unit 2 lot boundaries until construction of Unit 2 site improvements or until an agreed upon timeline provided in the PRO agreement;
- 3. This recommendation for Preliminary Site Plan approval is also subject to following conditions being made part of any PRO rezoning through the PRO Concept Plan and PRO Agreement approval if granted by the City Council
  - a. The creation of a new, separate legal parcel of limited size for the purpose of housing the water tower on its own is a required deviation that will need to be addressed in the PRO Agreement. No other use than the existing tower shall be permitted, maintenance of this Unit must be addressed in the PRO agreement;
  - b. A irrigation plan and any necessary easements that demonstrates the applicant's intent will be required at the time of the approval of the Roads and Utilities plan;
  - c. The applicant shall develop the road with a three-lane cross-section to further accommodate left-turning activities and provide a wider "buffer zone" for large vehicles entering/exiting the various facilities without entering into the opposing traffic through lane, at the time of Preliminary Site Plan approval;
  - d. The applicant shall confirm understanding that they may be subject to certain off-site and/or on-site mitigation measures as a result of the region-wide traffic impact study. Any mitigation measures that are determined as part of the region-wide traffic impact study shall consider existing congestion and network deficiencies absent this project, as well as the proportion of existing versus future traffic, in evaluation and determination of responsibility of such measures;
  - e. The applicant has provided a preliminary restoration plan which is recommended for approval. The applicant shall provide additional information at the time of Final Site Plan approval for Roads and Utilities;
  - f. The applicant shall stake the trail proposed on the south part of the site prior to construction to allow for the City of Novi's staff and consultants to approve the alignment prior to the applicant's construction of the trail;
  - g. The timeline for paving the temporary gravel secondary access in the event Unit 2 is not completed within a certain period of time shall be addressed in the PRO agreement;
  - h. The applicant shall obtain all necessary off-site easements for connecting secondary emergency access to the west prior to Final Site Plan approval for Roads and Utilities;

## [Insert any additional conditions]

(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.)

## Approval - Wetland Permit

In the matter of the request of Orville Properties, LLC, for the Adell Center JSP 18-27, motion to **recommend approval** to the City Council for <u>Wetland Permit</u> based on and subject to the following:

- a. 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; and
- b. This recommendation is subject to completion of the of the PRO Concept Plan and PRO Agreement process at the City Council, and any and all requirements that result from such approval, if it is granted; and if those approvals do not occur, then this recommendation is null and void, and of no force or effect whatsoever, as the applicant has been apprised of the fact that the PRO rezoning, which is required in order to allow site plan and other approvals, might not occur, and has determined to bear the risk that such approval might not occur, including but not limited to all of the costs incurred in the preparation of the preliminary plans before rezoning is even granted.
- c. (additional conditions here if any)

(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.)

## -AND-

## Approval - Woodland Permit

In the matter of the request of Orville Properties, LLC, for the Adell Center JSP 18-27, motion to **recommend approval** to the City Council for <u>Woodland Permit</u> based on and subject to the following:

- a. 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; and
- b. This recommendation is subject to completion of the of the PRO Concept Plan and PRO Agreement process at the City Council, and any and all requirements that result from such approval, if it is granted; and if those approvals do not occur, then this recommendation is null and void, and of no force or effect whatsoever, as the applicant has been apprised of the fact that the PRO rezoning, which is required in order to allow site plan and other approvals, might not occur, and has determined to bear the risk that such approval might not occur, including but not limited to all of the costs incurred in the preparation of the preliminary plans before rezoning is even granted.

## c. (additional conditions here if any)

(This motion is made because the plan is otherwise in compliance with Chapter 37 of the Code of Ordinances and all other applicable provisions of the Ordinance.)

-AND-

## Approval - Stormwater Management Plan

In the matter of the request of Orville Properties, LLC, for the Adell Center JSP 18-27, motion to **recommend approval** to the City Council for <u>Stormwater Management Plan</u> based on and subject to the following:

- a. 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; and
- b. This recommendation is subject to completion of the of the PRO Concept Plan and PRO Agreement process at the City Council, and any and all requirements that result from such approval, if it is granted; and if those approvals do not occur, then this recommendation is null and void, and of no force or effect whatsoever, as the applicant has been apprised of the fact that the PRO rezoning, which is required in order to allow site plan and other approvals, might not occur, and has determined to bear the risk that such approval might not occur, including but not limited to all of the costs incurred in the preparation of the preliminary plans before rezoning is even granted.
- c. (additional conditions here if any)

(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.)

## - OR -

## Denial - Preliminary Site Plan

In the matter of the request of Orville Properties, LLC, for the Adell Center JSP 18-27, motion to **recommend denial** to the City Council for Preliminary site plan for Roads and Utilities with a site condominium, based on and subject to the following:...(because the plan is not in compliance with Article 3, Article 4, and Article 5 of the Zoning Ordinance and all other applicable provisions of the Ordinance.)

## -AND-

## **Denial- Wetland Permit**

In the matter of the request of Orville Properties, LLC, for the Adell Center JSP 18-27, motion to **recommend denial** to the City Council for <u>Wetland Permit</u> ... (because the plan is not in compliance with Chapter 12, Article V of the Code of Ordinances and all other applicable provisions of the Ordinance.)

## -AND-

## **Denial- Woodland Permit**

In the matter of the request of Orville Properties, LLC, for the Adell Center JSP 18-27, motion to **recommend denial** to the City Council for Woodland Permit ... (because the plan is not in compliance with Chapter 37 of the Code of Ordinances and all other applicable provisions of the Ordinance.)

## -AND-

## Denial - Stormwater Management Plan

In the matter of the request of Orville Properties, LLC, for the Adell Center JSP 18-27, motion to **recommend denial** to the City Council for <u>Stormwater Management Plan</u> ... (because the plan is not in compliance with Chapter 11 of the Code of Ordinances and all other applicable provisions of the Ordinance.

## MAPS

Location Zoning Future Landuse Natural Features

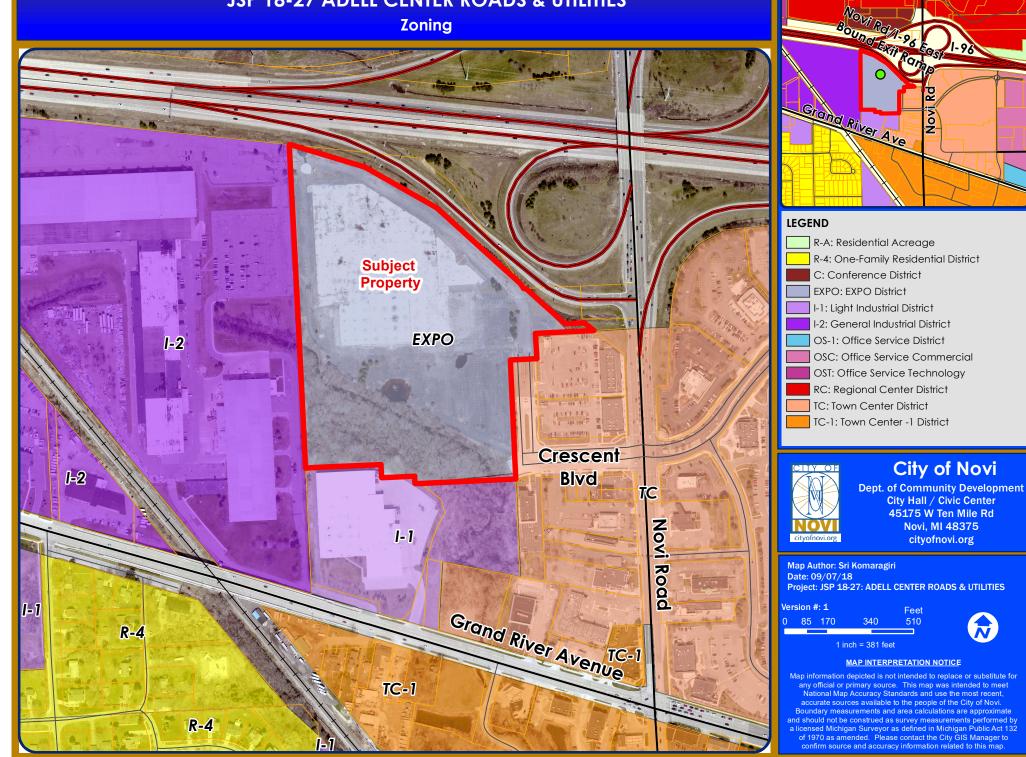
# JSP 18-27 ADELL CENTER ROADS & UTILITIES

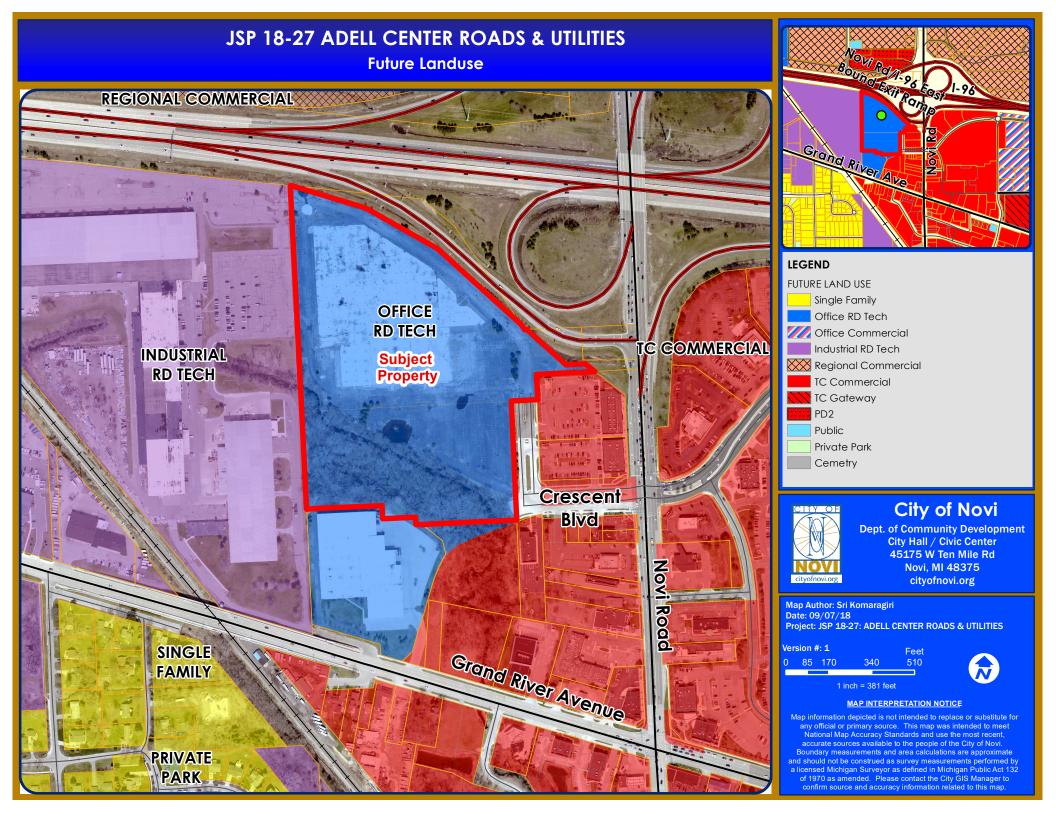
Location

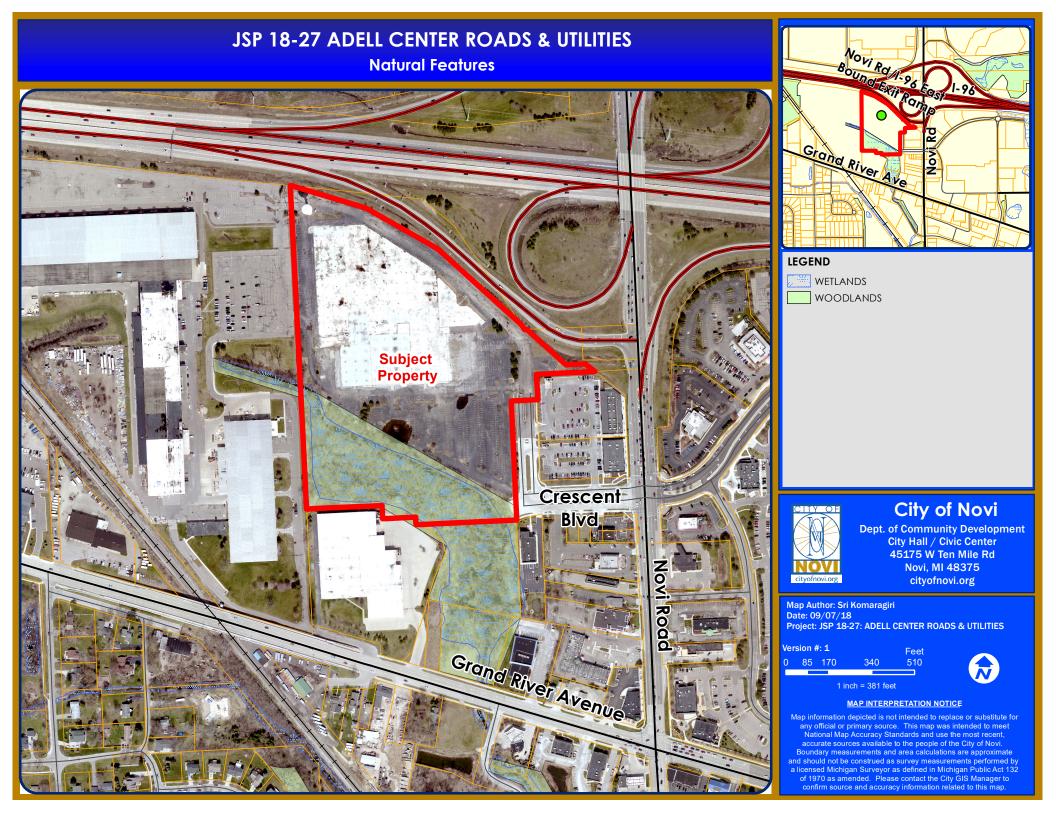


## JSP 18-27 ADELL CENTER ROADS & UTILITIES

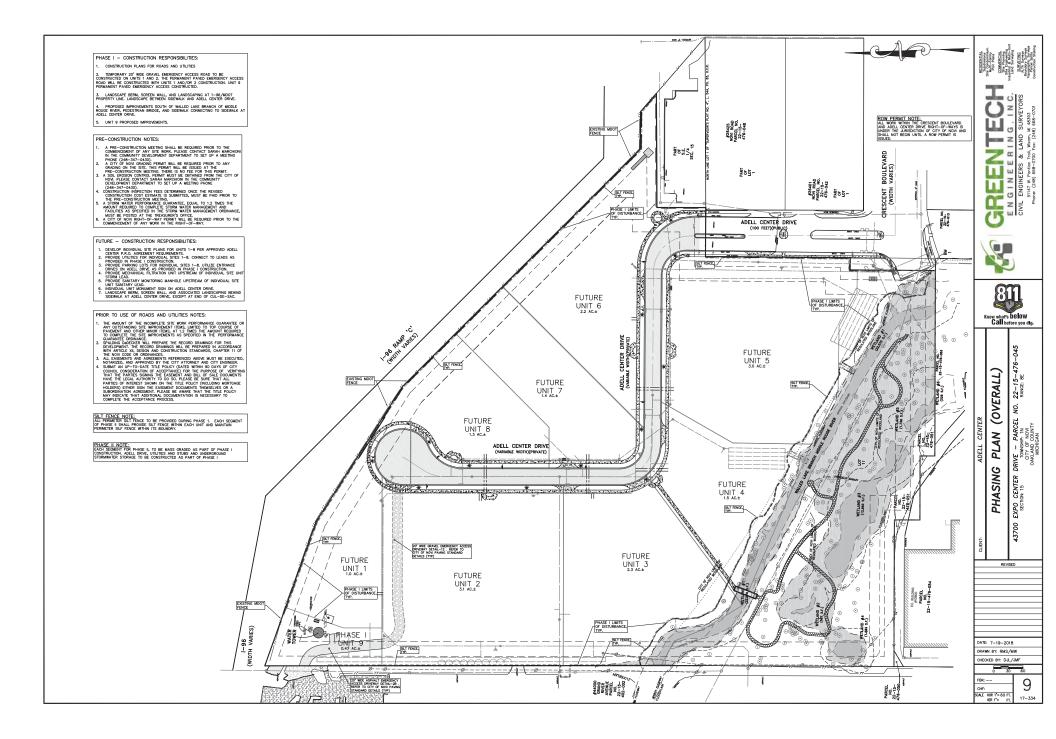
Zoning

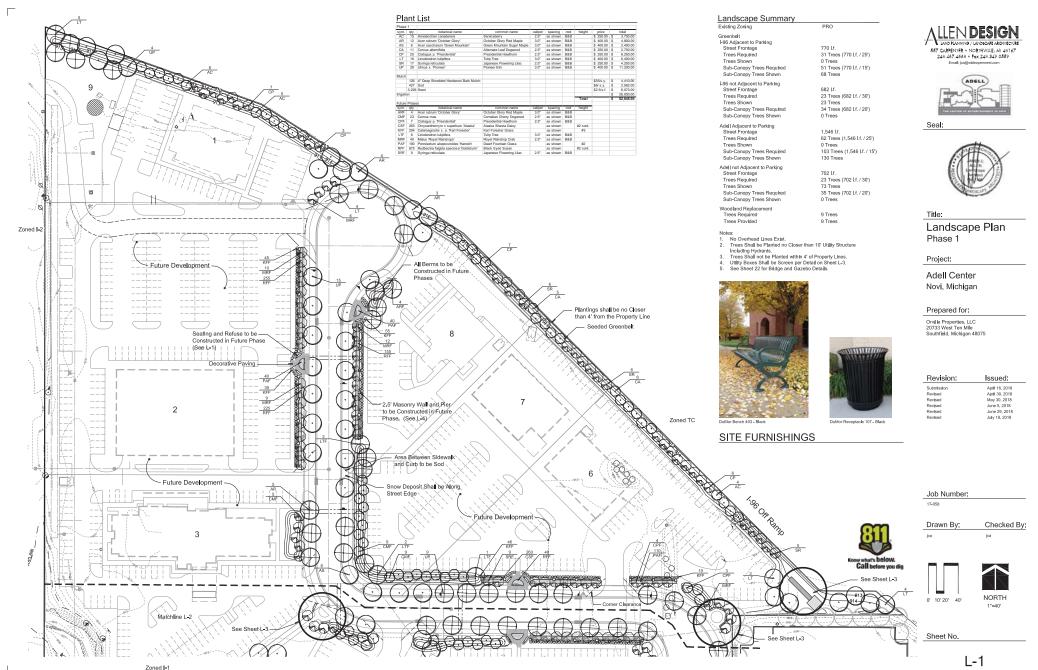


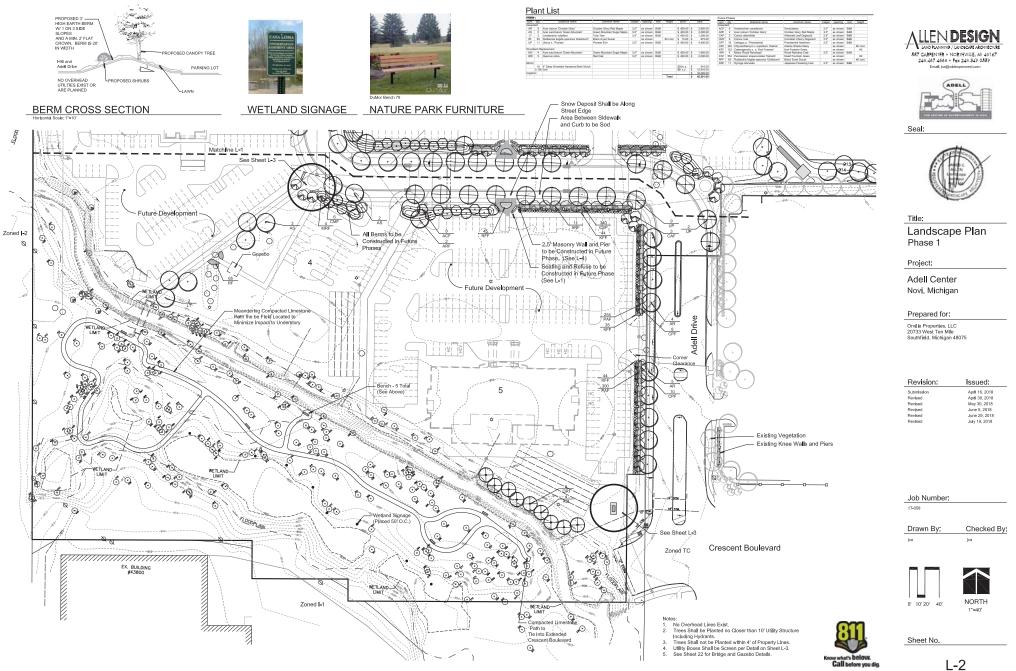




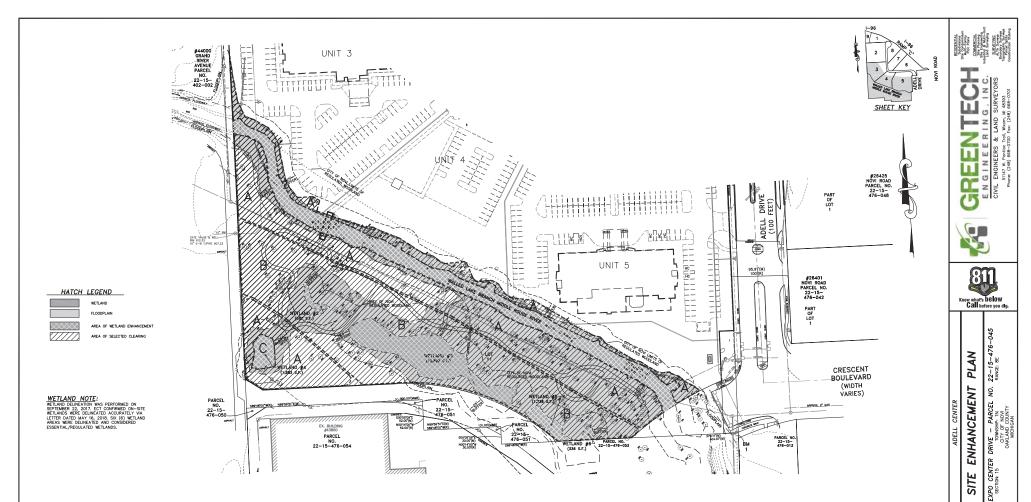
**SITE PLAN** (Full size plans are available at Community Development Department for review)







**RESTORATION PLAN** 



#### SEQUENCE OF REMOVAL FOR WOODY INVASIVE SPECIES

- THE LANDSCAPE ARCHITECT WILL FIELD VISIT THE SITE AND FIELD MARK ALL PRESERVATION AREAS. ONCE THIS IS COMPLETED, THE LANDSCAPE ARCHITECT WILL CONDUCT AN OR-SITE MEETING WITH CITY OF NOVI STAFF AND CONTRACTOR TO VEREY PRESERVATION/CLEARING UNITS AND REMOVAL PROCESS.
- 2. MARKED PLANT MATERIAL SHALL BE CUT BY HAND OR AS APPROVED BY THE LANDSCAPE ARCHITECT AND CITY OF NOVI STAFF. LIMBS AND BRANCHES SHALL BE REMOVED FROM THE PRESERVATION AREAS AND CHIPPED.
- 3. VEHICLES SHALL REMAIN SHALL REMAIN OUTSIDE OF THE 25' WETLAND SETBACK. STUMPS SHALL REMAIN IN PLACE AND BE TREATED WITHIN 15 MINUTES OF CUTTING WITH DYE COLORED TRICLOPYR.
- 4. NO STUMP OR ROOT REMOVAL SHALL OCCUR WITHIN THE WETLAND AREA OR THE 25' WETLAND SETBACK.
- 5. ALL DEAD STANDING TREES THAT ARE TO BE REMOVED.
- 5. ALLOBO STANDING THES THIN ARE TO BE REMOVED. A CHIEF OR ANY ADDRESS THAT ANY ADDRESS ADD
- 7. AFTER A DURATION OF 20 DAYS FROM THE FIRST APPLICATION, THE LANDSCAPE ARCHITECT AND CONTRACTOR SHALL VISIT THE SITE AN ASSESS THE EFFECTIVENESS OF THE FIRST HERISTICE APPLICATION. APPLY ADDITIONAL GUTHOSATE BASED HERISCIDE ON ANY PLANT EXHIBITING UTF. THIS PROCESS SHALL BE REPARTED UNTIL ALL OF THE INVANYE SPECES ARE DRAD.

#### SECOND YEAR MAINTENANCE

1. IN MID TO LATE SPRING THE LANDSCAPE ARCHITECT SHALL CONDUCT A VISUAL SURVEY OF INVASIVE SPECIES AND SUBMIT A REPORT TO THE CITY OF NOV. THE REPORT VIUL CONTAIN WRITEN, GRAPHIC AND PHOTOGRAPHIC DOCUMENTATION OF SITE CONDITIONS. IF INVASIVE SPECIES BRAINARY, THE LANDSCAPE ARCHITECT VIUL HONPYTHE CONTRACTOR OF REPART STRES S AND 7 AS OUTLINED ABOVE. 2. THE INVASIVE SPECIES REMOVAL PROGRAM WILL BE DEEMED COMPLETE WHEN 90% OF THE SITE IS FREE FROM INVASIVE PLANTS. A FINAL REPORT SHALL BE SUBMITTED TO THE CITY WHEN THE PROGRAM IS COMPLETE.

#### SEQUENCE OF REMOVAL FOR PHRAGMITES

- 1. PHRAGMITES SHOULD BE TREATED IN EARLY TO LATE SUMMER JUNE-SETPEMBERI. USING GLYPHOSATE, OR LATE SUMMER (AUGUST-
- PHIMAMENTS SHOULD BE TRAFTIDE IN ARRY TO LATE SUMMERLIUME SUFFICIENT UNDER UNTERDATING, ON LE SAMMERLIPUNCAT: SPETIDEREU UNDE OFFICIENT DE ALTRUET TECTICATO CONTON. APPLICATION OF HERRICOLS SHOULD BE HAND SWIPHING FOR SCATTERED FLAMTS AND HAND SPRAYING ON DEDERS TRANGS. THE USE OF A LERENSE DI CRETTREPORTICATION S REQUERTO DI NOMINARE DAMANE DI NAME MARTINI AND TRANSISTICATIONES DE ALTRUET AL ALTRUET DI CRETTREPORTICATION S REQUERTO DI NOMINARE DAMANE DI NAME MARTINI AND TRANSISTICATIONES DE ALTRUETA ALTRUETO DI CRETTREPORTICATIONES DE ALTRUETA DI NOMINARE DAMANE DI NAME DI ALTRUETA ALTRUETA DI CRETTREPORTICATIONES DE ALTRUETA DI NOMINARE DI NAME DI ALTRUETA ALTRUETA DI CRETTRE DI CRETTRE DI ALTRUETA DI ALTRUETA DI ALTRUETA DI ALTRUETA ALTRUETA DI CRETTRE DI ALTRUETA DI ALTRUETA DI ALTRUETA DI ALTRUETA ALTRUETA DI CRETTRE DI ALTRUETA DI ALTRUETA DI ALTRUETA DI ALTRUETA ALTRUETA DI CRETTRE DI ALTRUETA DI ALTRUETA DI ALTRUETA DI ALTRUETA ALTRUETA DI CRETTRE DI ALTRUETA DI ALTRUETA DI ALTRUETA DI ALTRUETA ALTRUETA DI ALTRUETA DI ALTRUETA DI ALTRUETA DI ALTRUETA ALTRUETA DI ALTRUETA DI ALTRUETA DI ALTRUETA DI ALTRUETA DI ALTRUETA ALTRUETA DI ALTRUETA DI ALTRUETA DI ALTRUETA DI ALTRUETA ALTRUETA DI ALTRUETA DI ALTRUETA DI ALTRUETA DI ALTRUETA ALTRUETA DI ALTRUETA DI ALTRUETA DI ALTRUETA DI ALTRUETA ALTRUETA DI ALTRUETA DI ALTRUETA DI ALTRUETA DI ALTRUETA ALTRUETA DI ALTRUETA DI ALTRUETA DI ALTRUETA DI ALTRUETA ALTRUETA DI ALTRUETA DI ALTRUETA DI ALTRUETA DI ALTRUETA ALTRUETA DI ALTRUETA DI ALTRUETA DI ALTRUETA DI ALTRUETA ALTRUETA DI ALTRUETA DI ALTRUETA DI ALTRUETA DI ALTRUETA DI ALTRUETA ALTRUETA DI ALTRUETA DI ALTRUETA DI ALTRUETA DI ALTRUETA DI ALTRUETA ALTRUETA DI ALTRUETA ALTRUETA DI ALTRUETA ALTRUETA DI ALTRUETA DI

SECOND YEAR MAINTENANCE

1. A VISUAL INSPECTION WILL BE MADE DURING JUNE - JULY. IF PHRAGMITES IS PRESENT, STEPS 1-3 ABOVE WILL BE REPEATED

#### SEQUENCE OF TRIMMING REGULATED TREES

1. EXISTING REGULATED TREES ARE PROPOSED TO REMAIN BUT MAY BE TRIMMED AFTER INVASIVE SPECIES REMOVAL. ANY TREES PROPOSED TO BE TRIMMED WILL BE MARKED AND REQUIRE CITY STAFF INSPECTION PRIOR TO TRIMMING.





- NOTICE: CONSTRUCTION SITE SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR NETHER THE OWNER NOR THE ENGAGES SHALL BE EXPECTED TO ASSAME ANY RESPONSIBILITY FOR SAFETY OF THE WORK, OF PERSONS ENGAGES IN THE WORK, OF ANTI NEARBY STRUCTURES, OR OF ANY OTHER PERSONS. NOTE:
- LINE LIAI ALTONIC OF EXSTING UNDERGROUND UTLITES ARE SHOWN IN AN APPROXIMATE WAY ONLY AS DISCURDED DY ANALAREA UTLITY CONVERTIGATION ON HAVE NOT BEEN INSPECTIONITY VERICES OF ACCURACY DISCURDED DY ANALAREA UTLITY CONVERTIGATION OF HAVE NOT BEEN INSPECTIONITY VERICES OF ACCURACY HEREFORM THE CONFINCE OF BALLY CERTIFIEST REF. EXCLUDING CONTINUES THE CONFIDENTIAL VERICES OF ACCURACY DETECTION OF A CONFINICATION OF A CONFIDENCE OF A CONFIDENCIAL VERICES OF ACCURACY DISCURDED BY THE CONFINCTOR'S FAULURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTLITES. THE CONFIRCTOR'S FAULURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND AND APPRILIMENT OF ACCURACIONS FAULURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND AND APPRILIMENT OF ACCURACIONS FAULURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND AND APPRILIMENT. THE CONFIRCTOR'S FAULURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND AND APPRILIMENT. THE CONFIRCTOR'S FAULURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL APPRENT.

#### RESTORATION NOTE:

THE CONTRACTOR SHALL RESTORE AREAS DISTURDED FROM WIS CONSTRUCTION OPERATIONS TO THER ORIGINAL CONSTRUM AT AN ADDITIONAL COST OT HE CONRER, AND TO THE SATISACTION OF THE CONRER, LANDSCAPE AREAS REQUIRING RESTORATION SHALL INCLUDE MIN. 3<sup>+</sup> TOPSOL, AND SOL. PAVENENT AREAS SHALL BE RESTORED TO THER ORIGINAL CONTONIN, WITH THE APPLICABLE CORSOS-SECTION TO MATCH EXISTING.

PLANNING REVIEW



## PLAN REVIEW CENTER REPORT <u>Planning Review</u> ADELL CENTER Roads and Utilities with a Site Condominium JSP 18-27

## PETITIONER

**Orville Properties, LLC** 

## **REVIEW TYPE**

Preliminary and Final Site Plan for Roads and Utilities with a Site Condominium

## **PROPERTY CHARACTERISTICS**

Section	15	15				
Site Location		43700 Expo Center Drive; Parcel Id: 50-22-15-476-045 Grand River Avenue and south of I-96 in Section 15				
Site School District	Novi Co	mmunity School District				
<b>Current Site Zoning</b>	Expo: Ex	00				
Proposed Site Zoning	TC: Towr	n Center				
Adjoining Zoning	North C: Conference (across I-96)					
	East	East TC: Town Center				
	West	I-2: General Industrial				
	South I-1: Light Industrial					
Current Site Use	Vacant;	Existing unused parking lot				
	North	Novi Oaks Hotels				
Adjoining Uses	East	Retail/Restaurants				
Aujoining uses	West	Industrial Office				
	South	Industrial Office				
Site Size	Approximately 21.8 Acres (950,073 SF)					
Plan Date	Revised:	July 19, 2018				

## PROJECT SUMMARY

The applicant is proposing to develop a multi-unit commercial Site Condominium with nine units accessed by a proposed private drive. The current proposed improvements include the construction of the road and utilities, along with certain landscaping, stormwater management, and lighting in preparation for future development. The planned improvements are all proposed to be completed in one phase except the paving for the secondary emergency access, from the proposed private drive to a location west of existing water tower. The applicant is proposing to use a gravel surface for the secondary emergency access drive at this time until Unit 2 is developed. The existing water tower on site is proposed remain, but be located on a separate condominium unit.

The site is currently zoned Expo. The applicant has requested to rezone it to Town Center (TC) district with a Planned Rezoning Overlay (PRO). The PRO Concept plan is currently under review. The current site plan is reviewed against TC standards where applicable. The current plan does not conform to the code for certain requirements as listed in this chart. Typically, it would have required City Council/Zoning Board of Appeals approval. However, those deviations are currently being reviewed as part of the PRO plan concurrently.

## RECOMMENDATION

Approval of the **Preliminary Site Plan and Final Site Plan is recommended contingent upon City Council's approval of the PRO plan and PRO Agreement**. The plan mostly does <u>not</u> conform to the requirements of the Zoning Ordinance and Subdivision Ordinance as noted in the items listed in the chart and the letter. If the rezoning and PRO Agreement are approved by the City Council, the site will be subject to ordinance deviations and conditions listed in PRO agreement. The plan also requires approval of wetland permit, woodland permit and storm water management plan.

## **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 and Appendix C - Subdivision Ordinance of City Code of Ordinances. Items in **bold** below must be addressed and incorporated as part of the Preliminary/Final Site Plan:

- <u>Site Plans Approval (Sec.3.27.1):</u> For all uses permitted in the TC and TC-1 districts, site plans shall be submitted for preliminary approval by the Planning Commission, in accordance with the provisions of this ordinance and other applicable ordinances. In those instances where the site under development is five (5) acres or more in area, Preliminary Site Plan approval shall be by the City Council after review and recommendation by the Planning Commission. The current request would require City Council's approval based on Planning Commission recommendation. Approval of the Roads and Utilities Site Plan would be contingent upon City Council's approval of the PRO plan and agreement.
- Illustrative Plan (Sec 6.1.E.i): An illustrative plan is required that shows future buildings, parking and landscaped areas, future lot lines, required building setbacks, public or private parks, open spaces, utility locations and storm water detention basins. The applicant should include Overall PRO Concept plan in this set. Please refer to the set as 'Illustrative Plan' and include it with the next submittal.
- 3. <u>Written Statement (Sec 6.1.E.ii)</u>: A written statement reinforcing the illustrative plan explaining in detail the full intent of the applicant, indicating type of structures contemplated, expected uses of property and scheduling of development is required. A narrative was provided as part of the rezoning request. The applicant should revise it for the current request and include it with the next submittal.
- 4. <u>Boundary Survey (Sec 6.1.E.iv):</u> A boundary survey prepared by a registered land surveyor or civil engineer is required. Sheet 3 provides ALTA/NSPS Land Title survey. The applicant should update the future Right-of-way information and related legal description on this sheet.
- 5. <u>Site Condominium (Sec 6.1.E.vi</u>): If development is proposed as a site condominium, compliance with Section 6.3 is required, including the provision for Master Deed review. Refer to Plan review chart for more comments with regards to compliance with Section 6.3. A Master Deed draft should be submitted for City legal review prior to approval of Final stamping sets.
- 6. <u>Concurrent Road and Utilities / Rezoning (PRO) review:</u> The site is currently zoned Expo. The applicant has requested to rezone it to Town Center (TC) district with a Planned Rezoning Overlay (PRO). The PRO Concept plan is currently under review, but not yet approved by the City Council. The current site plan is reviewed against TC standards where applicable. The current plan does **not** conform to the code for certain requirements as listed in the Planning Review chart. Typically, it would have required City Council/Zoning Board of Appeals approval. However, the following deviations are currently being reviewed as part of the PRO plan (concurrently with the Roads and Utilities site plan).
  - a. Lack of frontage on a Public Street for Units 1 through 8 (Sec. 5.12): Each of the proposed condominium units (units 1 through 8) has access from the proposed private drive. The applicant

has requested this deviation for Units 1 through 8. Staff supports the deviation as the proposed private drive is built to City standards.

- b. Lack of frontage on a Public/Private Street for Unit 9 (Sec. 5.12): Unit 9 does not have any frontage on any drive. It is considered a landlocked parcel with no frontage. Access is proposed to be provided by a private access easement. This access easement also allows a secondary emergency access for the entire development. The applicant has requested this deviation. Off-site easements will be required at the time of Final Site Plan submittal.
- c. Exceeding Cul-de-sac street distance (11-194(a)(7)): Adell Drive exceeds the maximum allowable length of the proposed cul-de-sac street length of 800 (proposed 1,450 feet) from the centerline intersection of Crescent Boulevard to the center of the bulb of the Adell Center Drive cul-de-sac. The applicant has requested this deviation and is supported by staff.
- d. Water Tower (unit 9) (Sec. 3.1.25.B& C): The applicant is proposing that the water tower is to remain where it is currently located, but on its own separate site (Unit 9). This is not a principal permitted use of a site. It is also not considered an accessory use, since its proposed use is not detailed. The creation of a new, separate legal parcel of limited size for the purpose of housing the tower on its own is therefore a required deviation that will need to be addressed in the PRO Agreement (e.g., what happens to the property if the owner determines to remove it, access, etc). The future and current use and maintenance of this Unit must be addressed in the PRO agreement, at a minimum.
- e. Units in the floodplain (Sec. 4.03A): Condominium units cannot be created within floodplain that increases danger to health, life or property. Units 3, 4, and 5 lie partially within the floodplain. There appears to be no impacts to the floodplain proposed for Units 3 and 5. A pedestrian bridge is proposed on Unit 5. The applicant has made this request. Staff supports the request noting additional permits may be required for pedestrian bridge.
- f. Side Lot lines: The current unit layout does not conform to the Section 4.02.B of Subdivision Ordinance. Side lot (unit) lines between Units 6 and 7, 4 and 5, 1 and 2 do not meet the requirement. The applicant is requesting the deviation for lot lines for 1, 6, 7, and 8. It should be revised as listed above.
- g. Lighting spillover front property lines (Sec. 5.7.3.K.): Maximum illumination at the property line shall not exceed 1 foot candle. The intent of this requested deviation is unclear. The proposed access easement acts as a Right-of-way for the subject property. Staff can support a deviation to exceed 1 foot candle along access easements along Adell Drive, within reason, upon review of a Conceptual photometric plan.
- h. **Gravel Access Drive**: The applicant is proposing a gravel emergency access driveway, per sheet 12. The use of gravel, instead of hard surface such as concrete or asphalt, would require a variance. The timeline for paving the access in the event Unit 2 is not completed within a certain period of time should be addressed in the PRO agreement.
- i. **Stub Streets**: A stub street to the property boundary at intervals not to exceed 1,300 feet along the perimeter of the site is required by ordinance. Refer to Engineering review for more details.
- 7. <u>Wetland/Woodland Restoration Plan</u>: The applicant has identified 15 percent open space in various locations within the site, the majority of it being located along the southerly portion. This area contains about an acre of wetlands that account for about 25 percent of the open space area in the southerly portion. The Environmental consultant recommended that the applicant consider restoration efforts to existing wetlands and woodlands are in order to make it more usable and aesthetically pleasing. This was expected to be reviewed and approved as part of the Preliminary Site Plan/wetland permit approval. However, the current site plan was submitted prior to receiving the PRO comments. Staff recommends that the applicant submit the requested information prior to Planning Commission meeting for staff review.
- 8. <u>Proposed Trail:</u> The proposed trail is shown on the PRO Concept plan. It appears that there are no impacts to any regulated woodlands. The plan notes that path will be field located. **Staff recommends that field location staking of the path shall be inspected by staff prior to installation.**

Ideally, the applicant should attempt to locate the trail outside of regulated wetlands and 25-foot wetland buffers while preserving existing trees.

9. <u>Lighting and Photometric Plan (Sec. 5.7)</u>: The applicant has provided lighting and photometric plan for street lights along Adell Drive, landscape lighting for two Adell development signs and decorative lighting for the promenade in Unit 4. Additional information is requested to complete the review. Please refer to Plan review chart for more comments.

# 10. <u>Plan Review Chart:</u> Please refer to attached Plan Review Chart for additional comments and minor clarifications requested to be included in the revised submittal.

## 11. Other Reviews

- a. <u>Engineering Review</u>: Engineering is recommending approval for Preliminary Site Plan, but is requesting additional information for Final Site Plan approval.
- b. <u>Landscape Review</u>: Landscape has requested for additional information to verify conformance. Landscape recommends approval for Preliminary Site Plan, but requires a resubmittal for Final site plan approval.
- c. <u>Wetlands and Woodland Review</u>: Due to the deficiencies in the information included on the Plan related to proposed wetland impacts as well as lack of information with respect to restoration of the proposed Open Space area containing Regulated Wetland/Woodland areas, ECT recommends that the applicant address the items noted in the Wetland Comments Section of their review letter in a Revised Plan.
- d. <u>Traffic Review (08-13-18)</u>: Traffic has requested for additional information to verify conformance. Traffic recommends approval for Preliminary Site Plan, but requires a resubmittal for Final site plan approval based on several undetermined site items including driveway spacing, pavement markings and/or other missing site elements, as detailed in their review letter.
- e. Fire Review: No additional comments. Fire does not recommend approval.

## NEXT STEP: PLANNING COMMISSION MEETING

It is staff's opinion that the applicant should submit revised site plans prior to Planning Commission's recommendation to the City for items noted in review letters, especially with regards to Wetlands/Woodlands restoration plan, and the Fire Marshal's concerns. Staff recommends a Planning Commission meeting at a later date after giving time for staff to review the revised submittal. However, the site plan with site condominium is scheduled to go before Planning Commission for public hearing on September 12, 2018 based on applicant's request. Please provide the following by 10 am on <u>August 24, 2018</u>. Staff reserves the right to make additional comments as this expedited review continues.

- 1. Site plan submittal in PDF format. Staff has received this item with the initial submittal
- 2. A response letter addressing ALL the comments from ALL the review letters
- 3. A color rendering of the Site Plan, if any to be used for presentation purposes.
- 4. A wetland/woodland restoration plan

## **CITY COUNCIL MEETING**

When the site under development is five (5) acres or more in area, Preliminary Site Plan approval shall be by the City Council after review and recommendation by the Planning Commission.

## **REVISED FINAL SITE PLAN SUBMITTAL**

Engineering, Landscape and Traffic are recommending approval of Preliminary Site Plan, but not the Final site plan. Wetlands, Woodlands, Traffic and Fire are not recommending approval of either the Preliminary or the Final Site Plan. Please address all the concerns raised in the review letters and resubmit for final site plan approval. The resubmittal should include the following

- 1. A Site Plan Revision Application
- 2. Six copies of revised site plan.

3. A response letter addressing all concerns from review letters and the sheet numbers where the comment is addressed.

## ELECTRONIC STAMPING SET SUBMITTAL AND RESPONSE LETTER

After receiving Final Site Plan approval from all concerned reviews, please submit the following for Electronic stamping set approval:

- 1. Plans addressing the comments in all of the staff and consultant review letters in PDF format.
- 2. Response letter addressing all comments in ALL letters and ALL charts and refer to sheet numbers where the change is reflected.

## STAMPING SET APPROVAL

Stamping sets are still required for this project. After having received all of the review letters from City staff the applicant should make the appropriate changes on the plans and submit <u>10 size 24" x 36"</u> copies with original signature and original seals, to the Community Development Department for final Stamping Set approval.

## PRE-CONSTRUCTION MEETING

A Pre-Construction meeting is required for this project. Prior to the start of any work on the site, Pre-Construction (Pre-Con) meetings must be held with the applicant's contractor and the City's consulting engineer. Pre-Con meetings are generally held after Stamping Sets have been issued and prior to the start of any work on the site. There are a variety of requirements, fees and permits that must be issued before a Pre-Con can be scheduled. If you have questions regarding the checklist or the Pre-Con itself, please contact Sarah Marchioni [248.347.0430 or smarchioni@cityofnovi.org] in the Community Development Department.

## CHAPTER 26.5

Chapter 26.5 of the City of Novi Code of Ordinances generally requires all projects be completed within two years of the issuance of any starting permit. Please contact Sarah Marchioni at 248-347-0430 for additional information on starting permits. The applicant should review and be aware of the requirements of Chapter 26.5 before starting construction.

If the applicant has any questions concerning the above review or the process in general, do not hesitate to contact me at 248.735.5607 or <a href="mailto:skomaragiri@cityofnovi.org">skomaragiri@cityofnovi.org</a>.

Sri Ravali Komaragiri – Planner



## PLANNING REVIEW CHART

Review Date:	August 15, 2018
Review Type:	Preliminary Site Plan
Project Name:	JSP 18-27 Adell Center: Roads and Utilities
Plan Date:	July 19, 2018
Prepared by:	Sri Komaragiri, Planner
	E-mail: skomaragiri@cityofnovi.org; Phone: (248) 735-5607

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

<u>NOTE:</u> The site is currently zoned Expo. The applicant has requested to rezone it to Town Center (TC) district with a Planned Rezoning Overlay (PRO). The PRO Concept plan is currently under review. The current site plan is reviewed against TC standards where applicable. The current plan does not conform to the code for certain requirements as listed in this chart. Typically, it would have required City Council/Zoning Board of Appeals approval. However, those deviations are currently being reviewed as part of the PRO plan concurrently.

Approval of Roads and Utilities site plan with the site condominium is contingent upon City Council's approval of the PRO plan and agreement. At that time, it will be subject to conditions listed in PRO agreement.

Item	Required Code	Proposed	Meets Code	Comments
Zoning and Use Red	quirements			
Master Plan (adopted July 26, 2017)	Office Research Development Technology	The applicant is requesting to rezone to TC under a separate application which is currently under review	No?	
Area Study	The site does not fall under any special category	NA	No?	
<b>Zoning</b> (Effective December 25, 2013)	ΕΧΡΟ	The applicant is requesting to rezone to TC under a separate application which is	No?	
Uses Permitted	Sec 3.1.25.B Principal Uses Permitted. Sec 3.1.25.C Special Land Uses	approved, uses are regulated by the approved PRO agreement	No?	
Roads and Utilities	Site Plan	L		
Site Plan (Sec 6.1.E)	<ul> <li>Site plans shall be submitted to the City for review of all plans that propose construction of new public and/or private roads, regardless of whether any buildings or other structures are proposed.</li> </ul>	- A site plan is provided.	No?	Refer to rest of the chart and letter for more comments

Item	Required Code	Proposed	Meets Code	Comments
	<ul> <li>Demonstrate the engineering feasibility if utilities are proposed</li> </ul>			
<b>Illustrative Plan</b> (Sec 6.1.E.i)	Submittal of an illustrative plan required to show: future buildings, parking and landscaped areas, future lot lines, required building setbacks, public or private parks, open spaces, utility locations and storm water detention basins.	<ul> <li>Staff is currently reviewing the applicant's request for rezoning with a Planned Rezoning Overlay which includes the elements listed for an illustrative plan</li> </ul>	No	Detailed comments are provided to the illustrative plan under separate cover as part of the PRO Concept review plan (JZ 18-24) The applicant should include Overall PRO Concept Plan in this set. Please refer to the set as 'Illustrative Plan' and include it with the next submittal.
Written Statement (Sec 6.1.E.ii)	A written statement reinforcing the illustrative plan explaining in detail the full intent of the applicant, indicating type of structures contemplated, expected uses of property and scheduling of development is required.	A written statement is not submitted.	No	Provide a written statement explaining the full intent of the proposal. A narrative was provided as part of the rezoning request. The applicant should revise it for the current request and include it with the next submittal.
Topographic Map (Sec 6.1.E.iii)	A topographic map at a contour interval of not more than 2 feet is required.	Sheet 06 and 07 provide the information requested	Yes	
Preliminary wetland Assessment (Sec 6.1.E.iii)	Drainage patterns and hydrologic character of the wetlands.	Wetlands consultant completed wetland boundary assessment	Yes	Refer to wetland review comments for more detail
Preliminary Woodland Assessment (Sec 6.1.E.iii)	For woodlots up to 5 acres, three woodland assessment samples per acre are required	Woodlands consultant completed woodland boundary assessment	Yes	See woodlands for additional information pertaining to the Woodland Assessments.
Boundary Survey (Sec 6.1.E.iv)	A boundary survey prepared by a registered land surveyor or civil engineer is required.	Sheet 3 provides ALTA/NSPS Land Title survey	No?	The applicant should update the future Right- of-way information and related legal description on this sheet
Aerial Photograph (Sec 6.1.E.v)	Submittal of a recent aerial photo in a scale not smaller than 1"=200' is required.	Aerial photo provided, no scale indicated.	No	Provide a scaled, recent aerial photograph.

Item	Required Code	Proposed	Meets Code	Comments
Contemplated Storm and Sanitary Sewer design (Sec 6.1.E.vi)	If utilities are not proposed to be constructed at the same time roads are constructed, the applicant shall submit a plan with an indication of the contemplated storm and sanitary sewer design with preliminary engineering calculations, and a preliminary topographic map indicating how the land area is proposed to be shaped.	Sheets 16, 17 and 18 refer to that information	Yes?	Refer to Engineering review for related comments Please correct the sheet numbers under sheet index
Site Condominium (Sec 6.1.E.vi)	If development is proposed as a site condominium, compliance with Section 6.3 is required, including the provision for Master Deed review.	9 Units; The existing water tower which is proposed to remain in its own unit as a non-conforming structure and/or use.	Yes	A request to allow this deviation is currently under review as part of the PRO Concept plan review, which is ongoing.
Exterior Lighting (Sec. 5.7.2.N)	All residential developments shall provide lighting at each entrance intersecting with a major thoroughfare sufficient to illuminate the entrance of the development. - Minimum illumination shall be 0.2 fc - Fixtures shall not exceed 25 ft. - Lighting shall be subject to the requirements of this Section of the Zoning Ordinance.	Light fixtures are indicated along the proposed private Road, in front of development monument sign (Two of them) and in Unit 4	No?	Additional comments provided later in the chart
Height, bulk, densit	y and area limitations			

Item	Required Code	Proposed	Meets Code	Comments
Frontage on a Public Street. (Sec. 5.12)	No lot or parcel of land shall be used for any purpose permitted by this Ordinance unless said lot or parcel shall front directly upon a public street, unless otherwise provided for in this Ordinance.	Each of the proposed lots has access from the proposed private drive. Unit 9 does not have any frontage on any drive.	No	A request to allow this deviation is currently under review as part of the PRO Concept plan review, which is ongoing.
Minimum Zoning Lot Size for each Unit in Ac	Except where otherwise provided in this Ordinance, the minimum lot area and width, and the	Lot sizes are not listed on the Sheet 10	No?	List Unit sizes and approximate lot coverage on Sheet 10 for each unit
<b>Minimum Zoning</b> <b>Lot Size</b> for each Unit: Width in Feet	maximum percent of lot coverage shall be determined on the basis of off-street parking, loading, groepholt screening			The subject property is currently zoned Expo and the applicant is requesting to be rezoned to TC.
Maximum % of Lot Area Covered (By All Buildings)	greenbelt screening, yard setback or usable open space requirements as set forth in this Ordinance.			Height, bulk and density limitations should conform to Town Center standards, if the rezoning is approved; They would be subject to EXPO standards if the rezoning is not approved;
Building Height	65 ft. or 5 stories, whichever is less	Information not provided.	No	A request to allow this deviation is currently under review as part of the PRO Concept plan review, which is ongoing
Building Setbacks				
Setbacks are to be Front /Exterior Side Yard	50 feet minimum from all lot lines for exterior lot 15 feet minimum for front side, for interior lot lines	Difect access proposed acc Unit 1 is requesting a reduction up to 35 ft. All other units are conforming	ess ease No?	A request of certain deviations from setbacks is currently under review as part of the PRO Concept plan review, which is ongoing
Side	15 feet between separate buildings on same side		No?	Setbacks should conform to Town Center standards, if the rezoning is approved; They would be subject to EXPO standards
	50 feet exterior 15 feet interior Exterior: lot lines located abutting non- TC district lots.	All units appear to conform; No deviations requested	NO ?	if the rezoning is not approved; An illustrative plan is not provided with this

Item	Required Code	Proposed	Meets Code	Comments
	Interior: lot lines abutting TC district lots.			submittal, information is from the parallel PRO review
Rear	50 feet exterior 15 feet interior Exterior: lot lines located abutting non- TC district lots. Interior: lot lines abutting TC district lots.	All units appear to conform; No deviations requested	No?	
Note To District Star				
Exterior Side Yard Abutting a Street (Sec 3.6.2.C)	All exterior side yards abutting a street shall be provided with a setback equal to front yard.	Units 1, 5, 6, 7 and 8 have an exterior side yard	No?	
Minimum lot area and width (Sec 3.6.2.D)	Except where otherwise provided in this ordinance, the minimum lot area and width, maximum percentage of lot coverage shall be determined by the requirements set forth.	It is unclear whether each unit meets ordinance standards for setback, landscaping, parking, loading and open space etc. Refer to all reviews for other notes	No?	Unit 9 does not have any frontage on proposed private drive A request to allow this deviation is currently under review as part of the PRO Concept plan review, which is ongoing.
Yard setbacks (Sec 3.6.2.H&L)	If site abuts a residential zone, buildings must be set back at least 3' for each 1' of building height, but in no case can be less than 20' setback	Does not abut residential zoning	NA	
Wetland/Waterco urse Setback (Sec 3.6.2.M)	A setback of 25 ft. from wetlands and from high watermark course shall be maintained	Wetland setbacks are shown on Sheet 4. It appears that there may be disturbance to the buffer; A wetland crossing is proposed from a pathway from Unit 4. Additional information such as type of construction, etc. is not provided	No?	Refer to wetlands review letter for more detail.

Item	Required Code	Proposed	Meets Code	Comments
Parking setback screening (Sec 3.6.2.P)	Required parking setback area shall be landscaped per sec 5.5.3.	Unable to determine. Information indicated to be provided with Preliminary site plan for individual units	No?	Refer to Landscape review for more details. Parking lot screening should conform to the code as deviations are not currently requested.
Modification of parking setback requirements (Sec 3.6.2.Q)	The Planning Commission may modify parking setback requirements based on its determination according to Sec 3.6.2.Q.	Site plan does not conform with front and side yard parking setback requirements	No?	An illustrative plan is not provided with this submittal, information is from the parallel PRO review
Subdivision Ordina	nce (Subdivision Ordinanc	e Appendix C, Article IV)		
Blocks (Subdivision Ordinance: Sec. 4.01)	<ul> <li>Maximum length for all blocks shall not exceed 1,400 ft.</li> <li>Widths of blocks shall be determined by the conditions of the layout.</li> </ul>	It is not designed as typical residential block layout	NA	Street blocks do not apply as a cul de sac is proposed for a non- residential development.
Lot Depth Abutting a Secondary Thoroughfare (Subdivision Ordinance: Sec. 4.02.A5)	Lots abutting a major or secondary thoroughfare must have a depth of at least 140'	Not applicable	NA	
Depth to Width Ratio (Subdivision Ordinance: Sec. 4.02.A6)	Lots shall not exceed a 3:1 depth to width ratio	They appear to be in conformance	Yes?	Provide the depth to width ratio for each lot
Arrangement (Subdivision Ordinance: Sec. 4.02.B)	<ul> <li>Every lot shall front or abut on a street.</li> <li>Side lot lines shall be at right angles or radial to the street lines, or as nearly as possible thereto.</li> <li>Residential lots abutting major thoroughfares shall include an approved screen planting and/or a raised berm, as determined by the Planning Board, contained in a non-</li> </ul>	<ul> <li>Unit 9 does not abut on any street</li> <li>Units 1, 7 and 9 do not meet the code</li> </ul>	No?	A request for this deviation is currently under review as part of the PRO Concept plan review, which is ongoing

Item	Required Code	Proposed	Meets Code	Comments
	access greenbelt easement having a minimum width of fifteen (15) feet. Where power lines exist or are planned for such areas, the easement shall be at least twenty (20) feet wide. The screen plantings shall be installed at the time of construction of the subdivision.			
Streets (Subdivision Ordinance: Sec. 4.04)	Extend streets to boundary to provide access intervals not to exceed 1,300 ft. unless one of the following exists: - practical difficulties because of topographic conditions or natural features - Would create undesirable traffic patterns	Stub streets are not proposed	No	<u>This deviation is not</u> <u>requested at this time.</u>
Secondary Access Sec. 4.04.A. 1.h	A secondary access is required	One is provided for entire development from Unit 9 to parking lot to the west.	No	Refer to Engineering review for more details All individual Units should have a second point of access
Topographic Cond	itions (Subdivision Ordinar	nce Appendix C, Article IV, S	ec 4.03)	
A. Flood plain	Compliance with applicable state laws and City Code Areas in a floodplain cannot be platted	Units 3, 4 and have flood plain in part of their rear yards	No	A request to allow this deviation is currently under review as part of the PRO Concept plan review, which is ongoing.
B. Trees and Landscaping	Compliance with Chapter 37 and Article 5 of City Zoning Code	Landscape Plan is provided.	NA	Refer to Landscape review for more comments
C. Natural Features	To be preserved Lots cannot extend into a wetland or watercourse	There are wetlands and woodlands that exist on site	Yes?	Refer to woodland and Wetland review letter for more details.
D. Man-made Features	To be built according to City standards	Not Applicable. None proposed	NA	

Item	Required Code	Proposed	Meets Code	Comments
E. Open Space Areas	<ul> <li>Any Open Space Area shall meet the following:</li> <li>Require performance guarantee</li> <li>Shall be brought to a suitable grade</li> <li>Compliance with zoning ordinance</li> <li>Except for wooded areas, all ground area should be top dressed with a minimum of 25% of red fescue and a maximum of 20% perennial rye.</li> </ul>	Applicant is proposing to use the southerly part of the site (south of Middle Rouge river) as open space	No?	As part of the PRO Concept plan review, a restoration plan is recommended for the southerly area, which was expected to be reviewed and to be approved as part of the Preliminary site plan/wetland permit approval. However, the current site plan submittal was submitted prior to receiving the PRO comments. Staff recommends to submit the following information prior to Planning Commission meeting
F. Non-Access Greenbelt Easements	The non-access greenbelt easements along rear or side property lines of those lots arranged according to Section 4.02.B.3. of this Ordinance, shall be developed in the following manner: - Easements shall be at least fifteen (15) feet wide and shall extend along all lots abutting major thoroughfares. Where power lines exist or are planned for such areas, the easement shall be at least twenty (20) feet wide. - Easements shall contain suitable ground cover and a screen planting including such elements as earth berms, shrubs, coniferous and deciduous trees, as approved by the City. - The grading of these	The lot lines does not abut major thoroughfares	No	

Item	Required Code	Proposed	Meets Code	Comments
	easements shall be approved by the City Engineer and other City Departments.			
G. Zoning Boundary Screening	A non-residential development abutting a residential development would need screening	Does not abut residential district	NA	
TC District Required	Conditions (Sec 3.27)			
Planned Rezoning against TC standar	Overlay. The PRO Concept ds, contingent upon PRO a	t has requested to rezone it t plan is currently under revie pproval. At that time, it will b slow. Rest is reviewed as par	ew. The c be subjec	urrent site plan is reviewed t to PRO agreement.
Site Plans (Sec. 3.27.1.A.)	Site area under 5 acres: Requires Planning Commission approval; Site area over 5 acres: Requires City Council approval upon Planning Commission recommendation	The parent parcel is over 5 acres. Individual lots are less than 5 acres	No?	Site plan for roads and utilities plan and site condominium, requires City Council approval upon Planning Commission recommendation. Site plan approval for individual lots less than require Planning Commission approval, unless Council reserves the right to approval of site plans as part of PRO approval
Bicycle Paths (Sec. 3.27.1 J)	Bike paths required to connect to adjacent residential & non- residential areas.	None provided	NA?	
Development amenities (Sec. 3.27.1 L)	All sites must incorporate amenities such as exterior lighting, outdoor furniture, and safety paths in accordance with Town Center Study Area.	Minimal amenities are proposed ; Four focal areas are provided with enhanced landscaping. Five areas including the area to the south are identified as open space areas, but details such as benches, plazas, lighting, safety path etc. are not provided. Refer to sheet 19	No?	The applicant is asked to consider providing more amenities to meet the intent of destination entertainment center as indicated in the narrative. The design has more potential for providing more defined public gathering spaces, especially with Unit 4.
Street and Roadway Rights-	Nonresidential collector and local streets shall	Roadway width: 36 feet Access Easement: 70	Yes	Traffic recommends a center turn lane. Refer to

Item	Required Code	Proposed	Meets Code	Comments
<b>Of-Way</b> (Sec. 3.27.1 N)	provide ROWs consistent with DCS standards	feet		Traffic and Engineering comments for more information
	Roadway width: 36 feet ROW/Access			
	Easement: 70 feet			
Sidewalk Require	•		Vee	
Sidewalks Article XII Sec. 11-276(b)& Sec. 11-279 Town Center Area Study	<ul> <li>A 6' -10' wide sidewalk shall be constructed along all arterial and collector roads except in industrial districts</li> <li>All pedestrian safety paths shall be concrete and four (4) in. thick except residential driveway crossings which shall be six (6) in. thick, and industrial/commercial driveway crossings which shall be eight (8) in. thick.</li> </ul>	All proposed sidewalks along proposed Private Road and Adell drive are 6 feet wide	Yes	
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	This will be reviewed at the time of site plan review.	NA	The applicant should consider crosswalks to connect northerly and southerly part of development
Building Code and	other design standard Rec	uirements		
Building Code	Building exits must be connected to sidewalk system or parking lot.	Not Applicable.	NA	
Design and Construction Standards Manual (DSM)	Land description, Sidwell number (metes and bounds for acreage parcel, lot number(s), Liber, and page for subdivisions).	Incorrect description included, since it does not include the land proposed for Future ROW.	No	Existing ALTA survey (Sheet 6) shall be updated to include Future ROW.
General layout and dimension of proposed	Location of all existing and proposed buildings, proposed	Some dimensions are missing.	No	Please refer to review comments for additional details.

Item	Required Code	Proposed	Meets Code	Comments	
physical improvements	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).				
Other Requirements			1		
Property Split or Combination	Property combination or split shall be reviewed and approved by the Community Development Department.	A Master deed is required for the proposed condominium		<u>Drafts should be</u> <u>submitted prior to final</u> <u>stamping set approval for</u> <u>review</u>	
Development and Street Names	Development and street names must be approved by the Street Naming Committee before Preliminary Site Plan approval	Development Name is approved by the Project Naming Committee	Yes		
Development/ Business Sign	Signage if proposed requires a permit.	Sign information provided	NA	Signage is not reviewed as part of this application	
Lighting	A lighting and photometric plan is provided	Street lights along Adell Drive are proposed; Landscape up lights are proposed near the two Adell development signs Pedestrian lighting is proposed along the promenade in Unit 5	No?	The plan does not clearly indicate the lot linesAll luminaires shall be full cut off.Light poles cannot conflict with utility easements or landscapeAverage to Minimum ratio for Adell Drive is exceeding the maximum allowed 4:1	
Lighting and Photometric Plan (Sec. 5.7)					
<u>STAFF COMMENT:</u> Photometric plan and additional information is typically required at the time of Final Site Plan when the site is not abutting a residential district.					
			T	[	

minimum levels, prevent unnecessary glare,	A plan is provided which indicates street lighting along Adell Drive, but does not include lighting	Photometric Plans will be required with Preliminary Site Plan submittal for each
reduce spill-over onto	does not include lighting for each unit.	unit.

Item	Required Code	Proposed	Meets Code	Comments
	reduce unnecessary transmission of light into the night sky			
Lighting Plan (Sec. 5.7.2 A.i)	Site plan showing location of all existing & proposed buildings, landscaping, streets, drives, parking areas & exterior lighting fixtures			
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.			
Lighting Plan (Sec.5.7.2 A.ii)	Specifications for all proposed & existing lighting fixtures	Provided	Yes?	Street lights conform to the requirement. However, staff recommends considering decorative lights as recommended in Town Center area study.
	Photometric data	Provided	Yes?	Road layout is not visible on the plan. Please provide a revised plan that indicates the site layout.
	Fixture height	Not indicated		
	Mounting & design	Indicated		
	Glare control devices	Indicated		
	Type & color rendition of lamps	Indicated		
	Hours of operation	Not indicated		
	Photometric plan illustrating all light sources that impact the subject site, including spill-over information from neighboring properties			
Required Conditions (Sec. 5.7.3.A)	Light pole height not to exceed maximum height of zoning district (65 ft. for TC)	Appears to be		

Item	Required Code	Proposed	Meets Code	Comments
Required Conditions (Sec. 5.7.3.B&G)	<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>			
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>			
Required Conditions (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	Unable to determine		The applicant has not demonstrated if this can be achieved. This can be demonstrated by providing a lighting plan with assumed light pole locations for an estimated calculation.
Required Conditions (Sec. 5.7.3.F)	Use of true color rendering lamps such as metal halide is preferred over high & low pressure sodium lamps			
Min. Illumination (Sec. 5.7.3.K)	Parking areas: 0.2 min			
(SEC. J.7.3.K)	Loading & unloading areas: 0.4 min			
	Walkways: 0.2 min			
	Building entrances, frequent use: 1.0 min			
	Building entrances, infrequent use: 0.2 min			
Max. Illumination adjacent to Non- Residential (Sec. 5.7.3.K)	0BWhen site abuts a non-residential district, maximum illumination at the property line shall not exceed 1 foot			The applicant has requested a deviation to allow spillover to exceed 1 fc along unit lines. Staff recommends to limit the

Item	Required Code	Proposed	Meets Code	Comments
	candle			deviation to interior side lot lines one.
Cut off Angles (Sec. 5.7.3.L)	<ul> <li>When adjacent to residential districts:</li> <li>All cut off angles of fixtures must be 90°</li> <li>maximum illumination at the property line shall not exceed 0.5 foot candle</li> </ul>	Site does not abut residential districts	No	The applicant could still consider full off fixtures instead of antique street lamps along the promenade in Unit 4

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.

**ENGINEERING REVIEW** 



## PLAN REVIEW CENTER REPORT

August 16, 2018

## **Engineering Review**

Adell Center – Roads and Utilities JSP18-0027

## **Applicant**

Orville Properties

## Review Type

Preliminary/Final Site Plan

## Property Characteristics

- Site Location: West of Novi Road, North of Crescent Drive
- Site Size: 22.48 acres
- Plan Date: 07/19/2018
- Design Engineer: Greentech Engineering, Inc.

### Project Summary

- Construction of roads and utilities to serve multiple commercial developments on the site.
- Water service would be provided by two connections to existing City water main south of site at Crescent Boulevard, and west of the development for a looped system.
- Sanitary sewer service would be provided extension of sanitary sewer from existing 15-inch sanitary sewer southwest of the site.
- Storm water would be collected by a single storm sewer collection system. The site is located within the drainage area for the C&O Regional detention basin. Restricted discharge via the Walled Lake Branch of the Middle Rouge is proposed with bankfull storage provided in a proposed underground detention system.

### **Recommendation**

Approval of the Preliminary Site Plan and storm water management is recommended; approval of the Final Site Plan is NOT recommended.

### Comments:

The Preliminary Site Plan meets the general requirements of Chapter 11 of the Code of Ordinances, the Storm Water Management Ordinance and the Engineering Design

Manual. Additional detail and information is required for Final Site Plan approval, as described in the following comments.

### General

JSP18-0027

- 1. A right-of-way permit will be required from the City of Novi for work in the Crescent Boulevard and Expo Center Drive right-of-way.
- 2. Provide the City's standard detail sheets for water main (5 sheets-rev. 02/16/2018), sanitary sewer (3 sheets- rev. 02/16/2018), storm sewer (2 sheets-rev. 02/16/2018), and paving (2 sheets-rev. 03/05/2018) at the time of the Stamping Set submittal. These details can be found on the City's website at this location: <a href="http://cityofnovi.org/Government/City-Services/Public-Services/Engineering-Division/Engineering-Standards-and-Construction-Details.aspx">http://cityofnovi.org/Government/City-Services/Public-Services/Engineering-Division/Engineering-Standards-and-Construction-Details.aspx</a>Non-domestic user survey forms will be required from each occupant with the site plan submittals for development of each unit.
- 3. The demolition plan indicates site benchmarks 2 and 3 will be removed. Additional benchmarks may need to be referenced to City established benchmark(s). An interactive map of the City's established survey benchmarks can be found under the 'Map Gallery' tab on www.cityofnovi.org.
- 4. A stub street to the property boundary at intervals not to exceed 1,300 feet along the perimeter is required by ordinance. A request for variance from Appendix C Section 4.04(A)(1) of the Novi City Code can be requested. City staff supports this request, and this is being considered with the PRO review process, concurrent with this site plan review.
- 5. The length of Adell Drive exceeds the maximum cul-de-sac street length of eight hundred (800) feet. A variance from Section 11-194(a)7 of the Design and Construction Standards can be requested. Staff can support this request, and this is being considered with the PRO review process, concurrent with this site plan review.
- 6. Provide a table listing the quantities of each sign type proposed for the development. Provide a note along with the table stating all traffic signage will comply with the current MMUTCD standards.
- 7. Provide a traffic control plan for the proposed road work activity (City roads).
- 8. Provide a utility crossing table indicating that at least 18-inch vertical clearance will be provided, or that additional bedding measures will be utilized at points of conflict where adequate clearance cannot be maintained.
- 9. Provide a note stating if dewatering is anticipated or encountered during construction a dewatering plan must be submitted to the Engineering Division for review.
- 10. Generally, all proposed trees shall remain outside utility easements. Where proposed trees are required within a utility easement, the trees shall maintain a minimum 5-foot horizontal separation distance from any existing or proposed utility. <u>All utilities shall be shown on the landscape plan</u>, or other

appropriate sheet, to confirm the separation distance.

- 11. Show the locations of all light poles on the utility plan and indicate the typical foundation depth for the pole to verify that no conflicts with utilities will occur. Light poles in a utility easement will require a License Agreement.
- 12. Per Section 26.5-35(h), a statement is required on any plan containing a private street with the following language: "City of Novi has no responsibility to improve or maintain the private streets contained within or private streets providing access to the property described in this plan".

### <u>Water Main</u>

- 13. Fire hydrants shall be provided as required by the Fire Marshal, generally at no more than five hundred (500) foot intervals and such that no part of a building is more than three hundred (300) feet of hose length from a hydrant.
- 14. Place the hydrants at least 7 feet off back of curb (allowing 3-foot clearance from sidewalk).
- 15. A tapping sleeve, valve and well is required at the connection to the existing water main.
- 16. Shut off valves are required at the main for each domestic and fire lead.
- 17. Provide additional valves to limit pipe runs to a maximum of 800 feet between valves.
- 18. Include the location and length of jack and bore segment on water main profile.
- 19. Call out vertical bends where required on water main profile.
- 20. Three (3) sealed sets of revised utility plans along with the MDEQ permit application (06/12 rev.) for water main construction and the Streamlined Water Main Permit Checklist should be submitted to the Engineering Division for review, assuming no further design changes are anticipated. Utility plan sets shall include only the cover sheet, any applicable utility sheets and the standard detail sheets.

### Sanitary Sewer

- 21. Revise the sanitary sewer alignment to outside the sidewalk. Water main and sewer main can be placed along the same or opposite sides Adell Drive to minimize utility crossings and conflicts.
- 22. Confirm size and location of sanitary sewer and sewer easement to the southwest to determine if any off site easements are needed for proposed sanitary sewer extension.
- 23. Each building is required to have a unique sanitary sewer monitoring manhole, within a dedicated 20-foot wide access easement to the monitoring manhole from the public right-of-way (rather than a public sanitary sewer easement).

- 24. On sheet 17, show the estimated capacity of the 10-inch sanitary sewer proposed to connect to existing sanitary sewer west of the site.
- 25. Note on the construction materials table that 6-inch sanitary leads shall be a minimum SDR 23.5, and mains shall be SDR 26.
- 26. Provide a note on the Utility Plan and sanitary profile stating the sanitary lead will be buried at least 5 feet deep where under the influence of pavement.
- 27. Provide a testing bulkhead immediately upstream of the sanitary connection point. Additionally, provide a temporary 1-foot deep sump in the first sanitary structure proposed upstream of the connection point, and provide a secondary watertight bulkhead in the downstream side of this structure.
- 28. Provide a drop of one-tenth (0.1) foot in downstream sewer invert at direction changes greater than thirty (30) degrees.
- 29. Seven (7) sealed sets of revised utility plans along with the MDEQ permit application (01/18 rev.) for sanitary sewer construction and the Streamlined Sanitary Sewer Permit Certification Checklist should be submitted to the Engineering Division for review, assuming no further design changes are anticipated. Utility plan sets shall include only the cover sheet, any applicable utility sheets and the standard detail sheets. Also, the MDEQ can be contacted for an expedited review by their office.

### Storm Sewer

- 30. A minimum cover depth of 3 feet shall be maintained over all storm sewers. In situations where the minimum cover <u>cannot</u> be achieved, Class V pipe must be used with an absolute minimum cover depth of 2 feet. An explanation shall be provided where the cover depth cannot be provided.
- 31. Provide all storm sewer sizing calculations.
- 32. Provide a 0.1-foot drop in the downstream invert of all storm structures where a change in direction of 30 degrees or greater occurs.
- 33. Match the 0.80 diameter depth above invert for pipe size increases.
- 34. Storm manholes with differences in invert elevations exceeding two feet shall contain a 2-foot deep plunge pool.
- 35. Label all inlet storm structures on the profiles. Inlets are only permitted in paved areas and when followed by a catch basin within 50 feet.
- 36. Label the 10-year HGL on the storm sewer profiles, and ensure the HGL remains at least 1-foot below the rim of each structure.
- 37. Illustrate all pipes intersecting storm structures on the storm profiles.
- 38. An easement is required over the storm sewer accepting and conveying offsite drainage.
- 39. Provide a schedule listing the casting type and other relevant information for each proposed storm structure on the utility plan. Round castings shall be provided on all catch basins except curb inlet structures.

### Storm Water Management Plan

- 40. 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.).
- 41. The conceptual storm water management plan indicates underground storage in three locations sized for bankfull volume. Indicate the proposed location of each first flush storm water quality treatment unit for each building unit and the roadway. Each unit will require its own Storm Drain Facility Maintenance Easement Agreement.
- 42. Provide supporting calculations for runoff coefficient determination. A runoff coefficient of 0.35 shall be used for all turf grass lawns (mowed lawns).
- 43. Identify the location of each underground detention outlet control structure and indicate the invert elevation where discharging to the Walled Lake Branch of the Middle Rouge. MDEQ permitting will be required for any new outlet locations.
- 44. An adequate maintenance access route to the outlet structures and any other pretreatment structures shall be provided (15 feet wide, maximum slope of 1V:5H, and able to withstand the passage of heavy equipment). The access route(s) must not conflict with proposed landscaping.
- 45. A Storm Drain Facility Maintenance Easement Agreement and access easement the outlet structures will be required for the underground detention units.
- 46. Indicate the overland routing or storm sewer bypass designed for the event that the underground system cannot accept flow.
- 47. Provide a soil boring in the vicinity of the proposed underground detention system to determine bearing capacity and the high water elevation of the groundwater table.
- 48. Provide a cross-section of each underground detention system showing critical elevations (low water, and bankfull high water, and pavement elevation). Ensure at least 1 ft. of freeboard between the high water elevation and the subgrade elevation under the pavement.
- 49. The underground detention system(s) shall be kept outside the influence of any planting areas.
- 50. The plans show two alternatives for underground detention systems. One type should be selected and shown on a revised final site plan for full review.
- 51. Provide release rate calculations for the design storm events (first flush, bankfull).

### Paving & Grading

- 52. No more than ¼" vertical obstacle shall be allowed at each transition between the pathway and the drive approach.
- 53. Provide existing topography and 2-foot contours extending at least 100 feet past the site boundary. Any off-site drainage entering this site shall be identified.

- 54. Site grading shall be limited to 1V:4H (25-percent), excluding landscaping berms.
- 55. Provide spot grades along property lines adjacent to perimeter curb line to demonstrate that site drainage is self-contained.
- 56. Show the limits of the 100-year floodplain and floodway and Base Flood Elevations for the Walled Lake Branch of the Middle Rouge River.
- 57. A City of Novi floodplain use permit may be required for any proposed floodplain impact. An MDEQ floodplain use permit may also be required for discharge to the Middle Rouge. The applicant will need to confirm any required MDEQ permitting.
- 58. The secondary access road to the west is proposed with a temporary gravel surface within the limits of the Unit 2 lot. A request for variance from Section 11-194(a)19 of the Design and Construction Standards can be requested for gravel surface for the secondary emergency access road. This request may be supported for a short-term, temporary solution only. The developer may be responsible for paving of the access route depending on the timing of the build out of Unit 2. This variance is being considered with the PRO concept plan review, concurrent with this site plan review.
- 59. An emergency access easement is required on Units 2 and 9 for the 20 foot secondary emergency access route shown on the plans.
- 60. Off-site emergency access agreement is required for the secondary access route shown to the west.
- 61. Vertical curves of on the proposed road profile should be designed in accordance with Figure VIII-D of the Design & Construction Standards.

### <u>Flood Plain</u>

- 62. A City of Novi floodplain use permit will be required for the proposed floodplain impact. This should be submitted as soon as possible. Contact the Building Department for submittal information. An MDEQ floodplain use permit may also be required prior to site plan approval.
- 63. Show the limits of the 100-year flood plain and floodway, if applicable, per the current FIRM maps (2006).

## Soil Erosion and Sediment Control

64. A SESC permit is required and has been applied for under separate cover.

## Off-Site Easements

65. Any off-site easements anticipated must be executed **prior to final approval** of the plans. Drafts of the easements and a recent title search shall be submitted to the Community Development Department as soon as possible for review, and shall be approved by the Engineering Division and the City Attorney prior to executing the easements.

### The following must be submitted with the Revised Final Site Plan:

- 66. A letter from either the applicant or the applicant's engineer must be submitted with the Stamping Set highlighting the changes made to the plans addressing each of the comments listed above <u>and indicating the revised sheets involved</u>. Additionally, a statement must be provided stating that all changes to the plan have been discussed in the applicant's response letter.
- 67. A revised itemized construction cost estimate must be submitted to the Community Development Department for the determination of plan review and construction inspection fees. This estimate should only include the civil site work and not any costs associated with construction of the building or any demolition work. <u>The estimate must be itemized</u> for each utility (water, sanitary, storm sewer), on-site paving (square yardage), right-of-way paving (including proposed right-of-way), grading, and the storm water basin (basin construction, control structure, pretreatment structure and restoration).
- 68. A draft copy of the off-site emergency access easement must be submitted to the Community Development Department. This document is available on our website.

### The following must be submitted with the Stamping Set:

(Please note that all documents must be submitted together as a package with the Stamping Set submittal with a legal review transmittal form that can be found on the City's website. Partial submittals will <u>not</u> be accepted.)

- 69. A draft copy of the Storm Drainage Facility Maintenance Easement Agreement, as outlined in the Storm Water Management Ordinance, must be submitted to the Community Development Department. Once the form of the agreement is approved, this agreement must be approved by City Council and shall be recorded in the office of the Oakland County Register of Deeds. This document is available on our website.
- 70. A draft copy of the 20-foot wide easement for the water main to be constructed on the site must be submitted to the Community Development Department. This document is available on our website.
- 71. A draft copy of the 20-foot wide easement for the sanitary sewer to be constructed on the site must be submitted to the Community Development Department. This document is available on our website.
- 72. A 20-foot wide easement where storm sewer or surface drainage crosses lot boundaries must be shown on the Exhibit B drawings of the Master Deed.
- 73. Executed copies of approved off-site easements.

### The following must be addressed prior to construction:

74. A pre-construction meeting shall be required prior to any site work being started. Please contact Sarah Marchioni in the Community Development Department to setup a meeting (248-347-0430).

- 75. A City of Novi Grading Permit will be required prior to any grading on the site. This permit will be issued at the pre-construction meeting (no application required). No fee is required for this permit.
- 76. Material certifications must be submitted to Spalding DeDecker for review prior to the construction of any utilities on the site. Contact Ted Meadows at 248-844-5400 for more information.
- 77. Construction inspection fees in an amount to be determined must be paid to the Community Development Department.
- 78. Legal escrow fees must be deposited with the Community Development Department. Unused escrow will be returned to the payee at the end of the project. This amount includes engineering legal fees only. There may be additional legal fees for planning legal documents.
- 79. A storm water performance guarantee in an amount of equal to 120% of the cost required to complete the storm water management facilities as specified in the Storm Water Management Ordinance must be posted at the Community Development Department.
- 80. Water and Sanitary Sewer Fees must be paid prior to the pre-construction meeting. Contact the Water & Sewer Division at 248-347-0498 to determine the amount of these fees.
- 81. A street sign financial guarantee in the amount of \$400 per traffic control sign proposed must be posted at the Community Development Department. Signs must be installed in accordance with MMUTCD standards.
- 82. A Soil Erosion Control Permit must be obtained from the City of Novi. Contact Sarah Marchioni in the Community Development Department, Building Division (248-347-0430) for forms and information. The financial guarantee and inspection fees will be determined during the SESC review.
- 83. A permit for work within the right-of-way must be obtained from the City of Novi. The application is available from the City Engineering Division or on the City website and may be filed once the Final Site Plan has been submitted. Please contact the Engineering Division at 248-347-0454 for further information. Only submit the cover sheet, standard details and plan sheets applicable to the permit.
- 84. A permit for water main construction must be obtained from the MDEQ. This permit application must be submitted through the City Engineer after the water main plans have been approved. Only submit the cover sheet, overall utility sheet, standard details and plan/profile sheets applicable to the permit.
- 85. A permit for sanitary sewer construction must be obtained from the MDEQ. This permit application must be submitted through the City Engineer after the sanitary sewer plans have been approved. Only submit the cover sheet, overall utility sheet, standard details and plan/profile sheets applicable to the permit.

- 86. An NPDES permit must be obtained from the MDEQ because the site is over 5 acres in size. The MDEQ may require an approved SESC plan to be submitted with the Notice of Coverage.
- 87. An inspection permit for the sanitary sewer tap must be obtained from the Oakland County Water Resource Commissioner.

### <u>The following must be addressed prior to issuance of a Temporary Certificate of</u> <u>Occupancy approval for the development:</u>

- 88. The amount of the incomplete site work performance guarantee for any outstanding site improvement items, limited to top course of pavement and other minor items, at 1.2 times the amount required to complete the site improvements as specified in the Performance Guarantee Ordinance.
- 89. All easements and agreements referenced above must be executed, notarized and approved by the City Attorney and City Engineer.
- 90. A Bill of Sale for the utilities conveying the improvements to the City of Novi must be submitted to the Community Development Department. This document is available on our website.
- 91. Spalding DeDecker will prepare the record drawings for this development. The record drawings will be prepared in accordance with Article XII, Design and Construction Standards, Chapter 11 of the Novi Code of Ordinances.
- 92. Submit to the Community Development Department, Waivers of Lien from any parties involved with the installation of each utility as well as a Sworn Statement listing those parties and stating that all labor and material expenses incurred in connection with the subject construction improvements have been paid.
- 93. Submit a Maintenance Bond to the Community Development Department in the amount to be determined (equal to 25 percent of the cost of the construction of the utilities to be accepted). This bond must be for a period of two years from the date that the Utility Acceptance Permit is issued by the City of Novi Engineering Division. This document is available on our website.
- 94. Submit an up-to-date Title Policy (dated within 90 days of City Council consideration of acceptance) for the purpose of verifying that the parties signing the Easement and Bill of Sale documents have the legal authority to do so. Please be sure that all parties of interest shown on the title policy (including mortgage holders) either sign the easement documents themselves or a Subordination Agreement. Please be aware that the title policy may indicate that additional documentation is necessary to complete the acceptance process.

To the extent this review letter addresses items and requirements that require the approval of or a permit from an agency or entity other than the City, this review shall not be considered an indication or statement that such approvals or permits will be issued.

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

Dary N. Rechtien Darcy N. Rechtien, P.E.

Sri Komaragiri, Community Development CC: Kristin Pace, Treasurers Ben Croy, Water and Sewer Theresa Bridges, Engineering George Melistas, Engineering

LANDSCAPE REVIEW



# PLAN REVIEW CENTER REPORT

August 8, 2018 <u>Combined Preliminary/Final Site Plan</u> Adell Center Roads & Utilities

<u>Review Type</u> Combined Preliminary/Final Roads & Utilities Plan Landscape Review <u>Job #</u> JSP18-0027

## Property Characteristics:

- Site Location: Northwest of Novi Road/Crescent Drive.
- Site Zoning: E
- Expo Proposed rezoning to TC with PRO ing: North: I-96, East: TC, South: TC/I-1, West: I-2
- Adjacent Zoning: North: I-96, Ea
  Plan Date: July 19, 2018

## Recommendation:

This plan, which only covers landscaping for the internal drive and I-96 frontage, is **recommended for approval for Preliminary Site Plan**, **but not for Final Site Plan**. Some revisions are necessary to meet all ordinance requirements, but there are no additional requirements for a landscape deviation. The changes required can be handled as part of the revised Final Site Plan process.

### **GENERAL NOTE:**

- 1. Please add call-outs on Sheets L-1 and L-2, labeling each Focus area with the area label shown on L-3 and making clear that they will be constructed as Part of Phase I.
- 2. Please remove the landscaping that is not part of the Road & Utilities Construction from these plans.

### 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 and on the accompanying Landscape Chart must be addressed as part of the revised Final Site Plan submittal. 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.

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. Please add all proposed lighting fixtures to the landscape plans to help avoid conflicts.

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

- 1. A tree survey is provided.
- 2. It appears that all but two non-regulated trees, north of the stream, will be removed. Two trees within the regulated woodland are shown as being removed and will be replaced with nine trees.

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

- 1. Conceptual berms along Adell Drive are shown on the landscape plans, outside of the Adell Drive's access easement. They are noted as being constructed in future phases.
- 2. A berm is also proposed along the I-96 frontage. That berm should undulate in height, with a minimum height of 36". No berm is required for Unit 1, where the building will front directly on the I-96 right-of-way or in front of the sign at the east end of the site.
- 3. Please clearly note that the I-96 berm and landscaping will be built as part of the Roads & Utilities phase of construction.

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

- 1. Street trees are not required along I-96, or in the TC district.
- 2. 57 of the required greenbelt trees along Adell Drive are proposed as street trees. This is acceptable and appreciated.
- 3. Please clearly note that the street trees will be installed as part of the Roads & Utilities Construction Phase.

Adjacent to Public Rights-of-Way – Berm (Wall) & Buffer (Zoning Sec. 5.5.3.B.ii and iii) I-96.

- 1. A 36" berm is proposed for all of the frontage except between the cul-de-sac and the l-96 right-of-way, where a wall is proposed
- 2. The berm should have undulations with a minimum height of 36".
- 3. The wall should be at least 36" high to screen headlights from reaching I-96.
- 4. Some of the subcanopy trees along the I-96 berm should be changed to canopy trees to meet the parking lot perimeter tree requirements.
- 5. The canopy trees should be provided at a rate of 1/35lf of parking areas and be spaced evenly along the berm.

Adell Drive.

- 1. A mix of berm, 2.5' tall brick wall and 2.5' brick pilasters and ornamental fencing, as requested in the Town Center Study, is provided along both sides of Adell Drive. They are noted as being built in future phases.
- 2. The 20 foot greenbelt starts at the back edge of the sidewalk. The unit lines are drawn to the back of curb, not 1' behind the sidewalk as is typically the case.

### Corner Clearance (Zoning Sec 5.9)

- 1. Provided.
- 2. Please adjust the trees at the new Unit 7 entrance to take them out of the corner clearance zones.

Parking Lot Landscaping – interior and perimeter (Zoning Sec. 5.5.3.C.) Not applicable for this phase of construction.

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

- 1. Snow deposit areas are shown on the site, along with a note that snow will be deposited along the edge of the road.
- 2. Please add at least one snow deposit area along Adell Drive for snow that can't be handled along the side of the road.

<u>Building Foundation Landscape Requirements (Sect 5.5.3.D)</u> Not applicable for this phase of construction.

<u>Transformer/Utility Box Screening (Zoning Sec 5.5.3.D.)</u> Not applicable for this phase of construction.

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

- 1. As only underground storm water detention is proposed, no detention landscaping is required.
- 2. If any surface level detention is required or proposed, the required detention basin landscaping must be provided.

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

- 1. Plant lists for the I-96 and Adell Drive greenbelts, and the focus areas, are provided.
- 2. Please adjust each plant list as necessary to provide species native to Michigan for at least 50% of the species used.
- 3. Please remove the plants and plant lists for future phases of construction to avoid confusion with this phase of construction.

### Planting Notations and Details (LDM)

Provided

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

Irrigation plan for landscaped areas or an alternative plan for ensuring that plants get the water required for establishment and long-term survival is required for Final Site Plans.

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 <u>rmeader@cityofnovi.org</u>.

Rick Meader – Landscape Architect

## LANDSCAPE REVIEW SUMMARY CHART - Roads & Utilities Plan

<b>Review Date:</b>	August 8, 2018
Project Name:	JSP18 – 0027: Adell Center Roads & Utilities Plan
Plan Date:	July 19, 2018
Prepared by:	Rick Meader, Landscape Architect E-mail: <u>rmeader@cityofnovi.org;</u> 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. *Italicized* comments need to be addressed on individual units' plans.

### **GENERAL NOTES:**

- 1.Please add call-outs on Sheets L-1 and L-2, labeling each Focus area with the area label shown on L-3 and making clear that they will be constructed as Part of Phase I.
- 2. Please remove all future plantings from these Landscape Plans to avoid confusion.

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>	Landscape plans: 1″=40′ Focal areas: 1″=20′	Yes	
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 (LDM.3.a.(8))	Show on all plan sheets	Yes	Yes	
Zoning (LDM 2.f.)	Include all adjacent zoning	Parcel: EXPO Rezone to TC w/PRO	Yes	

ltem	Required	Proposed	Meets Code	Comments
		<u>North:</u> I-96 <u>East:</u> TC <u>South:</u> TC/I-1 <u>West:</u> I-2		
<b>Survey information</b> (LDM 2.c.)	<ul> <li>Legal description or boundary line survey</li> <li>Existing topography</li> </ul>	Sheets 6-9	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>	Sheets 28-29	Yes	See ECT review for detailed discussion of woodland replacement requirements.
Soil types (LDM.2.r.)	<ul> <li>As determined by Soils survey of Oakland county</li> <li>Show types, boundaries</li> </ul>	Sheet 2	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 all light posts on landscape plan</li> </ul>	Proposed storm sewer, water and sanitary are provided.	Yes	Please add all lighting fixtures to the landscape plan to avoid conflicts.
Proposed grading. 2' contour minimum (LDM 2.e.(1))	Provide proposed contours at 2' interval	<ul> <li>Contours showing a 3' berm along parts of Adell Drive, in the greenbelt are provided, which will be built in future phases.</li> <li>Contours showing a 3' berm along I-96 frontage are provided.</li> </ul>	Yes	The berm along I-96 needs to undulate in height, with a 36" minimum height to screen the vehicles from view of I-96.
Snow deposit (LDM.2.q.)	Show snow deposit areas on plan	A note indicates that the snow will be deposited along the drive.	Yes/No	Please indicate at least one area for deposit of excess snow that won't fit along the road (such as for the cul-de-sac).
LANDSCAPING REQUIREMENTS				
•	e Requirements LDM 1.c. &	Calculations (LDM 2.0	.)	
General requirements (LDM 1.c)	<ul> <li>Clear sight distance within parking islands</li> </ul>	NA		

Item	Required	Proposed	Meets Code	Comments
	<ul> <li>No evergreen trees</li> </ul>			
Name, type and number of ground cover (LDM 1.c.(5))	As proposed on planting islands	Sod is indicated to cover the area between sidewalk and curb for Phase 1	Yes	
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>	NA		
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.	NA		
Contiguous space limit (i)	Maximum of 15 contiguous spaces	NA		
Plantings around Fire Hydrant (d)	No plantings with matured height greater than 12' within 10 ft. of fire hydrants or utility structures, or 5' from underground utility lines.	Proper spacing is provided.	Yes	
Landscaped area (g)	Areas not dedicated to parking use or driveways exceeding 100 sq. ft. shall be landscaped	Notes indicate that the area between the sidewalk and the curb will be sodded.	Yes	
<b>Clear Zones</b> (LDM 2.3.(5))	25 ft corner clearance required. Refer to Zoning Section 5.5.9	Clear zones are provided and trees are not located within them for all but the new entry to Unit 7	Yes/No	<ol> <li>Please add clear zones for Unit 7's new entry and adjust trees as necessary.</li> <li>Please provide clear zones as necessary.</li> </ol>
	OS-2, OSC, OST, B-1, B-2, B-3 district (Zoning Sec 5.5.3.C.		C-1, RC, Sp	pecial 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>x * 7.5% = A sf</li> </ul>	NA		
B = Total square footage of additional paved vehicular use areas (not including	<ul> <li>B = x sf * 1% = B sf</li> <li>(xxx - 50000) * 1% = B sf</li> </ul>	NA		

Item	Required	Proposed	Meets Code	Comments
A or B) over 50,000 SF) x 1 %				
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	xxx + xxx = xx SF	NA		
D = C/200 Number of canopy trees required	xx/200 = xx Trees	NA		
Perimeter Green space	1 Canopy tree per 35 lf	No deciduous canopy perimeter trees are proposed	No	<ol> <li>Please clearly indicate that the I-96 berm and landscaping will be part of the Road &amp; Utilities phase of construction.</li> <li>Please add required deciduous canopy trees (minimum mature height of 30 feet and canopy width of 20 feet) along I-96 berm where it abuts vehicular use areas at a rate of 1/35lf, spaced evenly along the vehicular use areas. They can replace some of the subcanopy trees used there.</li> </ol>
Parking land banked	NA	None		
Berms, Walls and ROW	Planting Requirements			
Berms				

Berm should be located on lot line except in conflict with utilities.

Berms should be constructed with 6" of top soil.

Item	Required	Proposed	Meets Code	Comments			
Residential Adjacent to	Residential Adjacent to Non-residential (Sec 5.5.3.A) & (LDM 1.a)						
Berm requirements (Zoning Sec 5.5.A)	Site does not abut residential so no berm is required for this purpose.	None	Yes				
Planting requirements (LDM 1.a.)	LDM Novi Street Tree List	NA					
Adjacent to Public Righ	ts-of-Way (Sec 5.5.B) and (	LDM 1.b)					
<b>Berm requirements</b> (Zoning Sec 3.27.1.D and 5.5.3.B.(5), LDM 1.b)	<ul> <li>Surface parking lots within the TC-1 district need to be screened from the right-of-way line by either:         <ul> <li>a 2.5' ornamental brick wall OR</li> <li>semi-transparent screening such as a brick pilaster with metal decorative fence,OR</li> <li>a landscaped berm.</li> </ul> </li> <li>In addition, the Landscape Design Manual 1.b (2)(c) requires that sites adjacent to freeways achieve substantial aesthetic enhancement and diminution of paving and parking views along these corridors.</li> </ul>	A wall is proposed north of the cul-de- sac.	Yes	<ol> <li>Please add a call-out for the retaining wall north of the cul-de- sac, and note that it will be built as part of the Roads &amp; Utilities Phase. Also, please indicate whether the wall will match the other walls along Adell or be some other design.</li> <li>The wall should be at least 3 feet tall to block headlights from shining toward I-96.</li> </ol>			
Cross-Section of Berms	<u>`</u>	<b>I</b>	1				
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>	Detail for I-96 berm is provided on Sheet L-2.	Yes/No	Please add callouts that berms are to be built of loam, with a 6" top layer of topsoil.			
Type of Ground Cover		NA					
Setbacks from Utilities	Overhead utility lines and 15 ft. setback from edge of utility or 20 ft. setback from closest pole	A note indicates that there are no overhead utility lines on the site.					

ltem	Required	Proposed	Meets Code	Comments
Walls (LDM 2.k & Zoning	y 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	A standard wall detail is provided on L-4.	Yes	
Walls greater than 3 ½ ft. should be designed and sealed by an Engineer		No details provided	TBD	If walls taller than 3.5' are proposed, detailed construction drawings will need to be reviewed for building permits.
ROW Landscape Scree	ning Requirements (Sec 5.5.	3.B. ii) – USE TC Require	ments	
Greenbelt width (2)(3) (5)	Adjacent to Pkg: 20 ft. Not adjacent to Pkg: 0 ft	NA		
Min. berm crest width	3 ft along I-96	Approx. 5 feet	Yes	
Minimum berm ht (9)	3 ft along I-96	Approx 3. – no undulations	Yes/No	Minimum height of undulating berm should be 36".
3' wall	(4)(7)	Sign walls		
<b>Canopy deciduous or large evergreen trees</b> Notes (1) (10)	<ul> <li>Parking: 1 tree per 25 lf</li> <li>Not adj to Pkg: 1 per 30 ft</li> <li>I-96: Adj to pkg: 770 lf/25 = 31 trees Not adj to pkg: 682 lf/30 = 23 trees Total: 54 trees</li> <li>Adj to pkg: 1546 lf/25 = 62 trees Not adj to pkg: 702 lf/30 = 23 trees Total: 85 trees</li> <li>In the TC district, either the large tree or subcanopy tree requirement must be met but not both.</li> </ul>	<mark>I-96:</mark> 15 canopy trees <u>Adell Dr:</u> NA	In total with subcano py trees, the I-96 frontage exceeds the require ments.	The screening along I- 96 may have to be denser to achieve the objective of screening the parking from the ROW.
Sub-canopy deciduous trees Notes (2)(10)	I-96:         Adj to pkg: 770 lf/15 = 51         trees         Not adj to pkg: 682 lf/20         = 34 trees         Total: 85 trees         Adell Drive:         Adj to pkg: 1546 lf/15 =	<u>I-96:</u> 68 subcanopy trees <u>Adell Dr:</u> NA	See above	The screening along I- 96 may have to be denser to achieve the objective of screening the parking from the ROW.

Item	Required	Proposed	Meets Code	Comments
	103 trees Not adj to pkg: 702 lf/20 = 35 trees Total: 138 trees			
Canopy deciduous trees in area between sidewalk and curb (Novi Street Tree List) (Zoning Sec 6.3 Site Condominiums, LDM2.)	In the TC district, street trees are not required.	57 greenbelt trees are located along Adell Drive as street trees.	Yes	
	Sec 5.5.3.E.iii & LDM 1.d (2) N, building foundation land		dscaning a	nd I DM
Screening of outdoor storage, loading/unloading (Zoning Sec. 3.14, 3.15, 4.55, 4.56, 5.5)		NA		
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>	NA		
<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>At least 75% of building should be landscaped – ideally all but paved points of entry will be landscaped.</li> <li>Patios are to be landscaped.</li> </ul>	NA		
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 facing Adell Drive and/or I-96 should be covered in green space.	NA		
Detention/Retention Ba	sin Requirements (Sec. 5.5.3	3.E.iv)		
Planting requirements (Sec. 5.5.3.E.iv)	<ul> <li>Clusters of large native shrubs shall cover 70-</li> </ul>	None – only underground		If any above-ground detention is required, it

Item	Required	Proposed	Meets Code	Comments
	<ul> <li>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>	detention is proposed.		shall be landscaped per the requirement.
<b>Phragmites Control</b> (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 requirements to eradicate the weed from the site.</li> </ul>	None indicated	TBD	<ol> <li>Please survey the site for any populations of <i>Phragmites</i> <i>australis</i> and submit plans for its complete removal.</li> <li>If none is found, please indicate that on the survey.</li> </ol>
LANDSCAPING NOTES,	DETAILS AND GENERAL REQU	JIREMENTS		
_	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, 2019	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		<ol> <li><u>Please add irrigation</u> <u>plan or information</u> <u>as to how plants will</u> <u>be watered</u> <u>sufficiently for</u> <u>establishment and</u> <u>long- term survival.</u></li> <li><u>If xeriscaping is used,</u> <u>please provide</u> <u>information about</u> <u>plantings included.</u></li> </ol>
Other information (LDM 2.u)	Required by Planning Commission	NA		
Establishment period (Zoning Sec 5.5.6.B)	2 yr. Guarantee	Yes	Yes	
Approval of substitutions.	City must approve any substitutions in writing	Yes	Yes	

ltem	Required	Proposed	Meets Code	Comments
(Zoning Sec 5.5.5.E)	prior to installation.			
Plant List (LDM 2.h.) - In	clude all cost estimates		<u> </u>	
Quantities and sizes	Refer to LDM suggested plant list as well as requirements for planting diversity and	Plant list is provided for all Phase I plantings and Future Phase greenbelt plantings.	Yes	<ol> <li>Please revise plant lists to include species native to Michigan for at least 50% of the species on each list.</li> <li>Please remove future phase plantings from these plans.</li> </ol>
Root type	prohibited species.	Yes	Yes	
Botanical and common names		Yes	Yes	
Type and amount of lawn		Sod quantities provided for each plant list	Yes	
Cost estimate (LDM 2.t)	For all new plantings, mulch and sod as listed on the plan	Costs are included on plant lists, including costs for sod, seed and mulch.	Yes	
Planting Details/Info (LI	OM 2.i) – Utilize City of Novi	Standard Details		
Canopy Deciduous Tree		Yes	Yes	
Evergreen Tree		Yes	Yes	
Multi-stem Tree		Yes	Yes	
Shrub	Refer to LDM for detail drawings	Yes	Yes	
Perennial/ Ground Cover		No	No	
Tree stakes and guys. (Wood stakes, fabric guys)		Yes	Yes	
Tree protection fencing	Located at Critical Root Zone (1' outside of dripline)	No	No	Please show tree fencing line on Demolition Plans drawn outside of trees' driplines.
Other Plant Material Re		1		
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.	Sheets 10 and 11	Yes	
Landscape tree credit (LDM3.b.(d))	Substitutions to landscape standards for	Credit for 2 trees being preserved		If ECT determines that the trees being saved

Item	Required	Proposed	Meets Code	Comments
	preserved canopy trees outside woodlands/ wetlands should be approved by LA. Refer to Landscape tree Credit Chart in LDM	north of stream is being taken.		are in fact within the regulated woodland, then the credits can't be taken. Please see their review.
Plant Sizes for ROW, Woodland replacement and others (LDM 3.c)	<ul><li>2.5" canopy trees</li><li>6' evergreen trees</li></ul>			
Plant size credit (LDM3.c.(2))	NA	No		
Prohibited Plants (LDM 3.d)	No plants on City Invasive Species List	None are proposed on plant lists.	Yes	
Recommended trees for planting under overhead utilities (LDM 3.e)	Label the distance from the overhead utilities	A note indicating that there are no overhead lines on the site has been provided.	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	Please revise Landscape Note #8 to use compost instead of peat.

## 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.

WETLANDS REVIEW



ECT Project No. 180481-0100

August 13, 2018

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

Re: Adell Center Roads & Utilities (JSP18-0027) Wetland Review of the Combined Preliminary & Final Site Plan (PSP18-0110)

Dear Ms. McBeth:

Environmental Consulting & Technology, Inc. (ECT) has reviewed the Combined Preliminary & Final Site Plan for the proposed Adell Center Roads & Utilities project prepared by Greentech Engineering, Inc. dated and stamped "Received" by the City of Novi Community Development Department on July 19, 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.

Due to the deficiencies in the information included on the Plan related to proposed wetland impacts as well as lack of information with respect to restoration of the proposed Open Space area containing Regulated Wetland areas, ECT recommends that the applicant address the items noted in the *Wetland Comments* Section of this letter in a Revised Plan.

Item	Required/Not Required/Not Applicable		
Wetland Permit (specify Non-Minor or Minor)	Required (Non-Minor)		
Wetland Mitigation	Not Required		
Wetland Buffer Authorization	Required		
MDEQ Permit	To Be Determined. It is the applicant's responsibility to contact the MDEQ in order to determine the need for a wetland use permit.		
Wetland Conservation Easement	Required		

The Plan includes the construction of a mixed-use district with several proposed building sites, associated parking, utilities and underground stormwater detention systems. The current Plan indicates a total of nine (9) building units, with Unit 4 being a parking lot and gazebo. The Plan notes that this unit is planned to be a temporary use by the developer and is subject to future development in accordance with the PRO agreement for the Adell Center.

Wetland Evaluation

ECT conducted a wetland evaluation for the proposed Adell Center project (hotel and entertainment center) at 43700 Expo Center Drive (Parcel ID 50-22-15-476-045) on May 15, 2018. ECT met with the applicant's current wetland consultant, King & MacGregor Environmental, Inc. for the wetland boundary verification.

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

> (734) 769-3004

FAX (734) 769-3164 Adell Center Roads and Utilities (JSP18-0027) Wetland Review of the Combined Preliminary & Final Site Plan (PSP18-0110) August 13, 2018 Page 2 of 12

The subject site is located south of I-96 and north of Grand River Avenue, west of Novi Road in Section 15. (Parcel ID number 50-22-15-476-045). ECT also reviewed the *Old Novi Expo: Wetland Delineation and Determination of Jurisdiction* report prepared by BWA Consulting dated October 5, 2017 (i.e., Report). This Report was received by the City by the applicant on May 1, 2018 as part of a wetland boundary verification request for the property.

The site is the home of the Novi Expo Center which closed and the building was demolished in 2012. Currently, the only structure on the property is the existing water tower in the northwest corner of the site. Remnants of the former Novi Expo Center remain including the concrete building slab and the asphalt parking lot. The southern portion of the site (south of the existing asphalt parking lot) contains the Walled Lake Branch of the Middle Rouge River, wetlands, floodplains and trees. This area (approximately 7 acres), contains the areas of City-regulated wetlands as mentioned above.

ECT's in-office review of available materials included the City of Novi Regulated Wetland and Watercourse map (see Figure 1), USGS topographic quadrangle map, NRCS soils map, USFWS National Wetland Inventory map, and historical aerial photographs (from Oakland County). Based on our review of this information the overall proposed project parcel contains areas mapped as City-Regulated Wetlands/Watercourses. The site appears to contain wetland/watercourse areas that are regulated by the City of Novi as well as the Michigan Department of Environmental Quality (MDEQ).

The focus of the site inspection was to review site conditions in order to determine whether City-regulated wetlands are found on-site. BWA completed a wetland delineation on the site on September 22, 2017. Pink wetland boundary flagging was in place at the time of this site inspection. ECT reviewed the flagging and agrees that the wetland boundaries were accurately flagged in the field. It should be noted that the applicant has provided a wetland flagging map that indicates the approximate locations of the wetland flagging/staking on site (see Figure 2). Based on the existing vegetation and topography, it is ECT's assessment that the on-site wetlands have been accurately delineated at this time.

The BWA Report notes that a total of six (6) wetlands were identified. The following is a brief description of the on-site wetland features (see Figure 2 provided by BWA):

Wetland 1 – Forested, scrub shrub, and emergent wetland contiguous to the Creek (Walled Lake Branch of the Middle Rouge River). BWA notes that the dominant wetland vegetation includes reed canary grass (*Phalaris arundinancea*), American elm (*Ulmus americana*), and orange jewelweed (*Impatiens capensis*). Wetland hydrology is indicated by saturated soils adjacent to the stream. Hydric (i.e., wetland) soils were identified within the wetland boundaries. This wetland area is essentially confined to the upper banks of the Creek.

Wetlands 2, 3, and 5 – These are isolated emergent depressions within the floodplain (according to FEMA FIRM Panel #0626) of the Walled Lake Branch of the Middle Rouge River. Dominant wetland vegetation includes reed canary grass, orange jewelweed, and wood nettle (*Laportea canadensis*). Wetland hydrology is indicated by water stained leaves and drift lines. Hydric soils were identified within the wetland boundaries. These wetland areas are located south of Wetland 1.

Wetland 4 – This is an area of isolated, forested and emergent depression. Dominant wetland vegetation includes common reed (*Phragmites australis*), American elm, and wood nettle. Wetland hydrology is indicated by water stained leaves. Hydric soils were identified within the wetland boundaries. This wetland area is located in the southwest corner of the site.



Adell Center Roads and Utilities (JSP18-0027) Wetland Review of the Combined Preliminary & Final Site Plan (PSP18-0110) August 13, 2018 Page 3 of 12

Wetland 6 – This area is an emergent swale associated with the Walled Lake Branch of the Middle Rouge River. Dominant vegetation includes reed canary grass, wood nettle, and orange jewelweed. Wetland hydrology is indicated by saturated soils near the surface. Hydric soils were identified within the wetland boundaries. This wetland is located in the southeast corner of the site.

BWA noted in the Report that in their opinion all six (6) on-site wetlands are subject to regulation by the City of Novi as well as MDEQ and that permits would be required for any work proposed within these wetlands.

### Wetland Impact Review

As noted above, several areas of wetland have been confirmed on the subject property by the applicant's wetland consultant and ECT. Currently, the Plan indicates two (2) direct impacts to on-site wetlands. The Plan quantifies the areas of the proposed wetland impacts on Sheet 27 (*Wetland Plan*). The total amount of direct (i.e., fill or excavation) impact to on-site wetlands currently indicated is 0.030-acre (1,307 square feet). The current impacts are to Wetland 1 for the purpose of constructing stormwater outfalls from proposed underground stormwater storage systems on Units 4 and 5.

The following table summarizes the proposed wetland impacts as listed on the Wetland Plan:

Wetland Impact Area	City Regulated?	MDEQ Regulated?	Impact Area (acre)	Estimated Impact Volume (cubic yards)
А	Yes City Regulated /Essential	Likely	786 Sq. Ft. (0.018-acre)	Not Indicated
В	Yes City Regulated /Essential	Likely	521 Sq. Ft. (0.012-acre)	Not Indicated
TOTAL			1,307 Sq. Ft. (0.030-acre)	Not Indicated

Table 1. Proposed Wetland Impacts

It is unclear if the proposed pedestrian bridge that will cross the Walled Lake Branch of the Middle Rouge River from the area near the Unit 3/Unit 4 boundary will involve additional impacts to Wetland 1. This information should be provided/clarified on subsequent site plan submittals. This proposed bridge crossing will likely require a permit from MDEQ (Part 301 – Inland Lakes and Streams and/or Part 303 – Wetlands Protection).

In addition to the proposed wetland impacts, the Plan proposes disturbance to on-site 25-foot wetland buffer areas. These impacts are associated with the stormwater outfalls and proposed pedestrian bridge noted above, as well as the crushed limestone pedestrian path that is to be located south of the Walled Lake Branch of the Middle Rouge River.

The existing area of the 25-foot wetland buffers and the proposed impacts to 25-foot wetland buffers have yet to be quantified on the Plan. The applicant shall provide information on subsequent plans that clearly indicates the areas of all existing wetland buffers as well as the area (square feet or acreage) of the proposed impacts to the 25-foot wetland buffers (both permanent and temporary, if applicable). This information is



Adell Center Roads and Utilities (JSP18-0027) Wetland Review of the Combined Preliminary & Final Site Plan (PSP18-0110) August 13, 2018 Page 4 of 12

required before any necessary City of Novi Wetland and Watercourse Permits or Authorization to Encroach Upon the 25-Foot Natural Features Setback letters can be issued.

The applicant is urged to minimize impacts to all wetlands and 25-foot wetland setback areas to the greatest extent practicable. The City regulates wetland and watercourse 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".

Finally, the Plan proposes a compacted limestone pedestrian path to be located south of the Walled Lake Branch of the Middle Rouge River. Detailed information with regard to this trail shall be provided on subsequent site plan submittals in order to ensure that any proposed impacts to wetlands, wetland buffers or regulated trees are minimized to the greatest extent practicable. It seems as if some of the apparent impacts to 25-foot wetland setbacks can be avoided through slight revisions to the proposed trail alignment. Ideally, the applicant should attempt to locate the trail outside of regulated wetlands and 25-foot wetland buffers while preserving existing trees. The *Landscape Plan Phase 1* (Sheet L-2) notes that the limestone path is to be field located in order to minimize the impact to the existing understory. ECT suggests that applicant have the limits of the proposed trail staked prior to construction so that the City's Landscape Architect or Forestry Asset Manager (or ECT) can review the alignment prior to site work.

### **Regulatory Status - MDEQ**

ECT has evaluated the on-site wetlands and believes that they are all 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 and regulated by the MDEQ. As noted, the wetlands appear to accurately flagged in the field and appear to be generally indicated accurately on the *Wetland Sketch* provided by BWA (Figure 2, attached).

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". BWA states that in their opinion, all six (6) of the on-site wetland areas are subject to regulation by the MDEQ, as they are either contiguous to, or are within 500 feet of the on-site stream. It is the applicant's responsibility to contact MDEQ in order to confirm the regulatory authority with respect to the on-site wetland areas.

#### 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.



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All six (6) of the on-site wetlands appear to be located within the area depicted as regulated wetland on the City of Novi Regulated Wetland and Watercourse Map (Figure 2). ECT has evaluated each wetland and believes that each wetland is regulated by the City's Wetland and Watercourse Protection Ordinance because all on-site wetlands are located within 500-feet of the Walled Lake Branch of the Middle Rouge River.

Our previous plan review letter requested that the applicant provide information on subsequent plans that clearly indicates the areas (square feet and/or acres) of all of the existing on-site wetlands and their 25-foot setbacks/buffers. The areas of the existing wetlands have now been provided on the Plan (i.e., on the *Wetland Plan*). The Plan shall also clearly indicate the area (square feet or acres) of all wetland/watercourse buffer (i.e., 25-foot setback) areas. The Plan currently appears to indicate the proposed impacts to wetlands (shown on the *Wetland Plan*) but does not appear to quantify the impact areas to the 25-foot setbacks. The Plan shall indicate and quantify the wetland buffer impacts (both permanent and temporary, if applicable) and the volume (cubic yards) of all wetland impacts.

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. Wetland mitigation does not appear to be a requirement of the current Plan.

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".

Finally, as proposed, the project will require a City of Novi Non-Minor Use wetland permit. The granting or denying of nonresidential minor use permits shall be the responsibility of the Community Development Department. A nonresidential minor use permit is a permit for activities consisting of no more than one (1) of the following activities which have a minimal environmental effect:

- a. Minor fills of three hundred (300) cubic yards or less and not exceeding ten thousand (10,000) square feet in a wetland area, providing the fill consists of clean, nonpolluting materials which will not cause siltation and do not contain soluble chemicals or organic matter which is biodegradable, and providing that any upland on the property is utilized to the greatest degree possible. All fills shall be stabilized with sod, or seeded, fertilized and mulched, or planted with other native vegetation, or riprapped as necessary to prevent soil erosion.
- b. Installation of a single water outfall provided that the outlet is riprapped or otherwise stabilized to prevent soil erosion.



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- c. Watercourse crossings by utilities, pipelines, cables and sewer lines which meet all of the following design criteria:
  - i. The method of construction proposed is the least disturbing to the environment employable at the given site;
  - ii. The diameter of pipe, cable or encasement does not exceed twenty (20) inches;
  - iii. A minimum of thirty (30) inches of cover will be maintained between the top of the cable or pipe and the bed of the stream or other watercourse on buried crossings; and
  - iv. Any necessary backfilling will be of washed gravel.
- d. Extension of a wetland/watercourse permit previously approved by the Planning Commission.
- e. Replacement of a culvert of an identical length and size, and at the same elevation. If the proposed culvert is of a greater length or size than the existing culvert, or is a new culvert altogether, it must meet the conditions of subpart c., above, to qualify for a nonresidential minor use permit.
- f. Temporary impacts where the encroachment into protected areas is less than five hundred (500) feet.

Because the project contains more than one (1) proposed stormwater outfall, a Non-Minor Wetland Permit (and approval of Planning Commission) shall be required.

### Wetland and Watercourse Comments

ECT recommends that the Applicant address the items noted below in subsequent site plan submittals:

- 1. ECT encourages the Applicant to minimize impacts to on-site wetlands and 25-foot wetland setbacks to the greatest extent practicable. The applicant should clarify what (if any) work/grading will be required within Wetland 1/Walled Lake Branch of the Middle Rouge River for the proposed pedestrian bridge.
- The applicant shall provide a detail of the proposed pedestrian bridge that will cross the Walled Lake Branch of the Middle Rouge River. It is unclear if the bridge crossing will involve impacts to Wetland
   This information should be provided/clarified on subsequent site plan submittals. This proposed bridge crossing will likely require a permit from MDEQ (Part 301 – Inland Lakes and Streams and/or Part 303 – Wetlands Protection).
- 3. The applicant shall clarify what impacts are required to construct the proposed compacted limestone pedestrian path to be located south of the Walled Lake Branch of the Middle Rouge River. Detailed information with regard to this trail shall be provided on subsequent site plan submittals in order to ensure that any proposed impacts to wetlands, wetland buffers or regulated trees are minimized to the greatest extent practicable. It seems as if some of the apparent impacts to 25-foot wetland setbacks can be avoided through slight revisions to the proposed trail alignment. Ideally, the applicant should attempt to locate the trail outside of regulated wetlands and 25-foot wetland buffers while preserving existing trees. ECT suggests that applicant have the limits of the proposed trail staked prior to construction so that the City's Landscape Architect or Forestry Asset Manager (or ECT) can review the alignment prior to site work.



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- 4. The applicant shall indicate, quantify and label all proposed impacts to the wetlands including proposed volume of cut/fill (cubic feet or cubic yards).
- 5. The applicant shall indicate, quantify and label all areas of existing 25-foot wetland buffers (square feet or acres).
- 6. The applicant shall indicate, quantify and label all proposed impacts to the 25-foot wetland setbacks (square feet or acres). Any proposed buffer impacts to the 25-foot wetland buffers for the purpose of constructing the pedestrian pathway shall be indicated on the Plan.
- 7. It appears as though a MDEQ Wetland Permit and a City of Novi Non-Minor *Wetland Use Permit* would be required for any proposed impacts to on-site wetlands, if applicable. 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 or watercourse buffers.
- 8. It should be noted that it is the Applicant's responsibility to confirm the need for a Permit from the MDEQ for any proposed wetland or floodplain impacts. Final determination as to the regulatory status of any on-site wetlands (if applicable) shall be made by MDEQ. The Applicant should provide a copy of the MDEQ Wetland Use Permit application to the City (and our office) for review and a copy of the approved permit upon issuance. A City of Novi Wetland Permit cannot be issued prior to receiving this information.
- 9. The Plan should address how any temporary impacts to wetland or 25-foot wetland buffers shall be restored, if applicable. Subsequent Plan submittals shall include specifications for any proposed seed mixes proposed for use within these areas. Sod or common grass seed is not acceptable in areas of temporary wetland or 25-foot wetland buffer restoration.
- 10. The applicant should ensure that any proposed snow storage areas are located such that any runoff will not directly affect any on-site wetlands, or the Walled Lake Branch of the Middle Rouge River (if applicable).
- 11. The *Landscape Plan Phase 1* (Sheet L-2) notes that wetland signage shall be placed around some of the existing wetland areas at a spacing of 50-feet on-center. The Plan currently indicates that proposed signage will be provided along the northern boundary of Wetland 3 and 5. The applicant should revise the Plan to indicate that conservation easement signage will be provided along all of the existing wetland areas. ECT suggest that the signage be placed at the edge of the 25-foot wetland buffers.

Sheet L-2 includes an example of signage used at a different development within the City of Novi. Subsequent site plan submittals shall provide a signage detail that is specific to the proposed site so that the proposed language can be reviewed/approved.

- 12. Sheet L-2 (*Landscape Plan Phase 1*) notes that the compacted limestone pedestrian path is to be field located in order to minimize the impact to the regulated woodland area and the understory plants. The path should also be located such that impacts to the existing 25-wetland buffer areas area minimized/avoided.
- 13. ECT suggests that any proposed stormwater management plan be reviewed by the City of Novi Engineering Department to ensure that they meet the City of Novi design requirements. Specifically, the Plan appears to propose underground stormwater detention systems. It is not immediately clear if these systems will include stormwater pre-treatment structures in conjunction with the storage. The stormwater shall receive pre-treatment prior to being outlet to wetlands.
- 14. The majority of the area south of the Walled Lake Branch of the Middle Rouge River that contains Regulated Wetland and Regulated Woodland areas is being included in the calculation of total Open Space being provided for the development. Currently, this area of the site contains a large quantity of undesirable, invasive plant and shrub species located in both the wetlands and woodland areas as well as refuse and debris generally located along the banks of the Walled Lake Branch. ECT recommends



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that the applicant provide a proposed restoration/site enhancement plan that addresses these items in order to provide for a more usable and aesthetic Open Space area for the development. Specifically, the plan should provide a proposed approach to address the following:

- a. List of invasive species to be targeted for removal;
- b. Sequence of removal for invasive species of woody vegetation including buckthorn, honeysuckle, and/or autumn olive;
- c. Sequence of removal for invasive common reed (*Phragmites australis*) and or purple loosestrife (*Lythrum salicaria*);
- d. Identify what herbicide chemicals and application strategies will be used to treat invasive species of vegetation,
- e. Description of chemical treatment schedule;
- f. Description of proposed method for assessment of treatment effectiveness;
- g. Description of follow-up treatments depending on assessment of treatment effectiveness;
- h. Description of removal approach for refuse/debris.

### Wetland Conclusion

The project site appears to contain wetlands/watercourse that are regulated by both the City of Novi and the MDEQ. Any proposed impacts to on-site wetlands will require a permit from the MDEQ, a City of Novi *Wetland and Watercourse Use Permit*, and an *Authorization to Encroach the 25-Foot Natural Features Setback* for any proposed impacts to the 25-foot wetland buffers. Subsequent site plan submittals shall clearly indicate all proposed impacts (permanent or temporary) to the existing wetlands/watercourse and associated 25-foot wetland setbacks.

### **Recommendation**

Due to the deficiencies in the information included on the Plan related to proposed wetland impacts as well as lack of information with respect to restoration of the proposed Open Space area containing Regulated Wetland areas, ECT recommends that the applicant address the items noted in the *Wetland Comments* Section of this letter in a Revised Plan.

Respectfully submitted, ENVIRONMENTAL CONSULTING & TECHNOLOGY, INC.

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Pete 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 and Woodland Map Figure 2 – Wetland Sketch Site Photos



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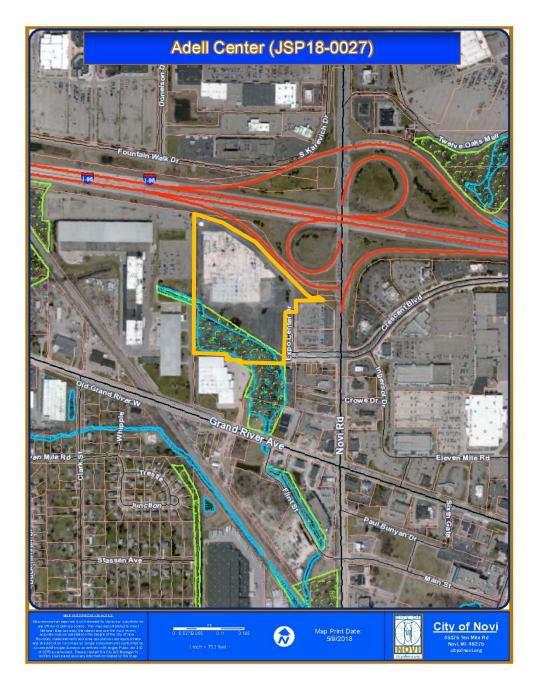


Figure 1. City of Novi Regulated Wetland & Woodland Map (approximate parcel boundary shown in orange). Regulated Woodland areas are shown in green and Regulated Wetland areas are shown in blue.



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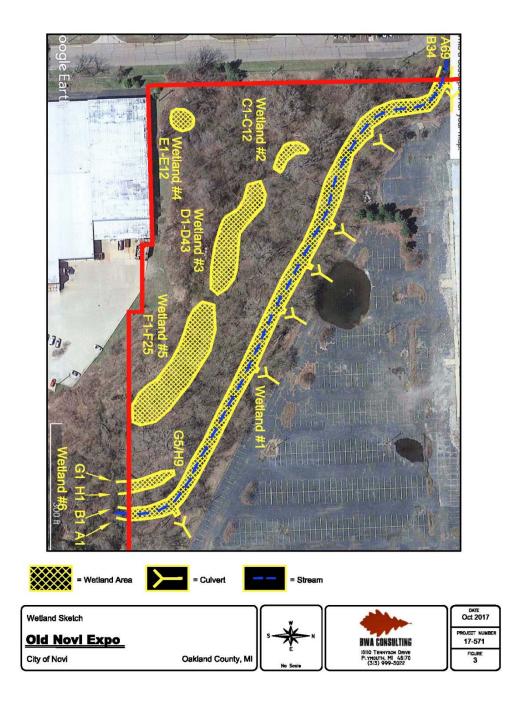


Figure 2. Wetland Sketch (provided by BWA).



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### Site Photos



Photo 1. Looking northeast along the Walled Lake Branch of the Middle Rouge River (ECT June 19, 2018).



Photo 2. Looking west at Wetland D in the southern portion of the project property (ECT, June 19, 2018).



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**Photo 3.** Refuse/debris located along the Walled Lake Branch of the Middle Rouge River (ECT, June 19, 2018).



**Photo 4**. Southern portion of site currently contains species of invasive vegetation that should be addressed by the applicant in order to provide for a more usable and aesthetic Open Space area for the development (ECT, June 19, 2018)



WOODLANDS REVIEW



ECT Project No. 180481-0200

August 13, 2018

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

Re: Adell Center Roads & Utilities (JSP18-0027) Woodland Review of the Combined Preliminary & Final Site Plan (PSP18-0110)

Dear Ms. McBeth:

Environmental Consulting & Technology, Inc. (ECT) has reviewed the Combined Preliminary & Final Site Plan for the proposed Adell Center Roads & Utilities project prepared by Greentech Engineering, Inc. dated and stamped "Received" by the City of Novi Community Development Department on July 19, 2018 (Plan). The Plan was reviewed for conformance with the City of Novi Woodland Protection Ordinance Chapter 37.

Due to the deficiencies in the information included on the Plan related to potential impacts to the Regulated Woodland area for the construction of the proposed walking path as well as lack of information with respect to restoration of the proposed Open Space area containing Regulated Woodlands, ECT recommends that the applicant address the items noted in the *Woodland Comments* Section of this letter in a Revised Plan.

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

The following woodland related items are required for this project:

contains the areas of City-regulated wetlands and City-regulated woodlands.

The proposed development is located north of Grand River Avenue and west of Novi Road in Section 15. The Plan includes the construction of a mixed-use district with several proposed building sites, associated parking, utilities and underground stormwater detention systems. The current Plan indicates a total of nine (9) building units, with Unit 4 being a parking lot and gazebo. The Plan notes that this unit is planned to be a temporary use by the developer and is subject to future development in accordance with the PRO agreement for the Adell Center.

The site is the home of the Novi Expo Center which closed and the building was demolished in 2012. Currently, the only structure on the property is the existing water tower in the northwest corner of the site. Remnants of the former Novi Expo Center remain including the concrete building slab and the asphalt

parking lot. The southern portion of the site (south of the existing asphalt parking lot) contains the Walled

Lake Branch of the Middle Rouge River, wetlands, floodplains and trees. This area (approximately 7 acres),

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

> (734) 769-3004

FAX (734) 769-3164 Adell Center Roads & Utilities (JSP18-0027) Woodland Review of the Combined Preliminary & Final Site Plan (PSP18-0110) August 13, 2018 Page 2 of 9

Based on our review of the Plan, Novi aerial photos, Novi GIS, City of Novi Official Wetlands and Woodlands Map (see Figure 1), and on-site evaluation this proposed project site contains areas indicated as Regulated Woodlands as well as Regulated Wetlands. The area of regulated woodland is located in the southern portion of the property (south of the Walled Lake Branch of the Middle Rouge River).

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

- 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;
- 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 bistorical significance; and
- 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.

### **On-Site Woodland Evaluation**

ECT has reviewed the City of Novi Official Woodlands Map and completed an onsite Woodland Evaluation on June 19, 2018. ECT's in-office review of available materials included the City of Novi Regulated Woodland map and other available mapping. As noted above, a portion of the southern end of the subject property is mapped as City of Novi Regulated Woodlands on the official City of Novi Regulated Wetland and Watercourse Map (see Figure 1). The proposed limits of disturbance for the main portion of the proposed project do not include areas mapped as City-Regulated Woodlands. Some proposed site improvements are however proposed within the area of City-Regulated Woodlands, including a compacted limestone pedestrian path to be located south of the Walled Lake Branch of the Middle Rouge River.

An existing tree list is included on Sheet 29 (*Tree Inventory Plan*). This Plan identifies tree tag numbers, diameter-at-breast-height (DBH), common name, condition, and removal status. The tree survey for the area designated as City-Regulated Woodland is included on Sheet 28 (*Woodland Plan*). The surveyed trees have been marked with aluminum tree tags allowing ECT to compare the tree diameters reported on the Plan with the existing trees in the field. ECT found that the Plan appears to accurately depict the location, species composition and the size of the existing trees. ECT took a sample of diameter-at-breast-height (DBH) measurements and found that the data provided on the Plan was consistent with the field measurements.

As noted above, the area north of the Walled Lake Branch of the Middle Rouge River is not mapped as City of Novi Regulated Woodland. In general, the majority of the on-site trees are box elder (*Acer negundo*) and eastern cottonwood (*Populus deltoides*). The site also includes Austrian pine (*Pinus nigra*), green spruce (*Picea pungens*), sugar maple (*Acer saccharum*), black walnut (*Juglans nigra*), American elm (*Ulmus americana*), and several other species. In terms of habitat quality and diversity of tree species, the overall subject site consists of fair to good quality trees. In terms of a scenic asset, wildlife habitat, windblock, noise buffer or other environmental asset, the forested area located on the subject site is considered to be of fair quality.



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### City of Novi Woodland Review Standards & 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".

The City of Novi regulates all trees 8-inches diameter-at-breast-height (DBH) and greater that are located within the areas delineated as regulated woodlands on the City-Regulated Woodlands Map. The City also regulates any individual tree greater than or equal to 36-inches DBH, irrespective of whether such tree is within a regulated woodland. Proposed woodland impacts will require a Woodland Permit and the regulated trees shall be relocated or replaced by the permit grantee.

### Proposed Woodland Impacts and Replacements

Based on the *Woodland Summary* information provided on the *Tree Inventory Plan*, there appear to be a total of 312 surveyed trees on the subject property. Of these, 32 of the trees are not located within the Regulated Woodland Boundary leaving a total of 280 Regulated Woodland Trees.

A total of two (2) City-Regulated Trees are proposed for removal. These trees are located in the southwestern portion of the site and the removal appears to be associated with proposed utility installation. The proposed trees to be removed are the following:

- Tree No. 409 9"/10"/12"/13" multi-stemmed eastern cottonwood Requires 6 Woodland Replacement Credits;
- Tree No. 410 11"/13" two-stemmed eastern cottonwood Requires 3 Woodland Replacement Credits.

The Plan also notes that two (2) Woodland Replacement Credits for the preservation of non-Woodland trees is requested (i.e., for Tree No. 168, 12" box elder and Tree No. 169, 9" box elder). The Landscape Tree Credit Chart (Table 7.b.(1)(f) in the City of Novi Landscape Design Manual notes that a total of two (2) Replacement Tree Credits are provided for trees between 7" and 12" DBH. This project therefore requires a total of five (5) Woodland Replacement Credits.

The Plan proposes a compacted limestone pedestrian path to be located south of the Walled Lake Branch of the Middle Rouge River. The *Landscape Plan Phase 1* (Sheet L-2) notes that the limestone path is to be field located in order to minimize the impact to the existing understory. ECT suggests that applicant have the limits of the proposed trail staked prior to construction so that the City's Landscape Architect or Forestry Asset Manager (or ECT) can review the alignment prior to site work. Ideally, the applicant should



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attempt to locate the trail outside of regulated wetlands and 25-foot wetland buffers while preserving existing trees.

Currently, the Plan proposes to provide required Woodland Replacement Tree Credits on-site through the planting of nine (9) deciduous trees (for a total of 9 Woodland Replacement Credits). It should be noted that with the proposed preservation of the two (2) non-woodland trees, the applicant has noted that seven (7) Woodland Replacement Credits are required. These trees are proposed south of prosed Unit 5 along the north edge of the Walled Lake Branch of the Middle Rouge River. The Plan proposes four (4) Green Mountain sugar maples and five (5) red oaks. These are acceptable Woodland Replacement trees per the City's *Woodland Tree Replacement Chart.* The *Tree Inventory Plan* (Sheet 18) notes that these replacement trees are to be provided in a conservation easement. The applicant shall clearly indicate the proposed conservation easement boundaries on the Plan. As noted above the proposed removal of regulated trees and the preservation of two (2) non-woodland trees results in a total of five (5) required Woodland Replacement Tree Credits.

### 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 a total of two (2) regulated trees and the preservation of two (2) non-woodland trees for preservation credit. The current required Woodland Replacement Credit quantity is five (5) Woodland Replacement Credits. The applicant currently proposes to provide nine (9) Woodland Replacement Credits on site, within a Conservation Easement. The applicant shall clearly indicate the proposed conservation easement boundaries on the Plan.
- 2. The discrepancy between Woodland Replacement Credits Required and Woodland Replacement Credits provided in the *Woodland Summary Table* and on the *Landscape Plan* should be reviewed and revised.
- 3. The Plan proposes a compacted limestone pedestrian path to be located south of the Walled Lake Branch of the Middle Rouge River. The *Landscape Plan Phase 1* (Sheet L-2) notes that the limestone path is to be field located in order to minimize the impact to the existing understory. ECT suggests that applicant have the limits of the proposed trail staked prior to construction so that the City's Landscape Architect or Forestry Asset Manager (or ECT) can review the alignment prior to site work. Ideally, the applicant should attempt to locate the trail outside of regulated wetlands and 25foot wetland buffers while preserving existing trees.
- 4. A Woodland Permit from the City of Novi would be required for proposed impacts to any trees 8inch 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.
- 5. 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 \$2,000 (5 Woodland Replacement Credits Required x \$400/Credit). Based on a successful inspection of the installed on-site Woodland Replacement



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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*. The City Regulations state that the minimum *Woodland Maintenance and Guarantee Bond* value is to be \$1,000.

- 6. 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*.
- 7. 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 cannot be placed on-site. If no Woodland Replacement Trees are proposed on-site, the required payment to the City of Novi Tree Fund will be \$3,600 (9 Credits Required x \$400/Credit).
- 8. The Applicant shall provide preservation/conservation easements as directed by the City of Novi Community Development Department for any areas of woodland replacement trees (if applicable). 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. As noted in Comment #1, the applicant shall clearly indicate the proposed conservation easement boundaries on the Plan.
- 9. The majority of the area south of the Walled Lake Branch of the Middle Rouge River that contains Regulated Wetland and Regulated Woodland areas is being included in the calculation of total Open Space being provided for the development. Currently, this area of the site contains a large quantity of undesirable, invasive plant and shrub species located in both the wetlands and woodland areas as well as refuse and debris generally located along the banks of the Walled Lake Branch. ECT recommends that the applicant provide a proposed restoration/site enhancement plan that addresses these items in order to provide for a more usable and aesthetic Open Space area for the development. Specifically, the plan should provide a proposed approach to address the following:
  - a. List of invasive species to be targeted for removal;
  - b. Sequence of removal for invasive species of woody vegetation including buckthorn, honeysuckle, and/or autumn olive;
  - c. Sequence of removal for invasive common reed (*Phragmites australis*) and or purple loosestrife (*Lythrum salicaria*);
  - d. Identify what herbicide chemicals and application strategies will be used to treat invasive species of vegetation,
  - e. Description of chemical treatment schedule;
  - f. Description of proposed method for assessment of treatment effectiveness;
  - g. Description of follow-up treatments depending on assessment of treatment effectiveness;
  - h. Description of removal approach for refuse/debris.



Adell Center Roads & Utilities (JSP18-0027) Woodland Review of the Combined Preliminary & Final Site Plan (PSP18-0110) August 13, 2018 Page 6 of 9

### **Recommendation**

Due to the deficiencies in the information included on the Plan related to potential impacts to the Regulated Woodland area for the construction of the proposed walking path as well as lack of information with respect to restoration of the proposed Open Space area containing Regulated Woodlands, ECT recommends that the applicant address the items noted in the *Woodland Comments* Section of this letter in a Revised Plan.

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

Respectfully submitted,

### ENVIRONMENTAL CONSULTING & TECHNOLOGY, INC.

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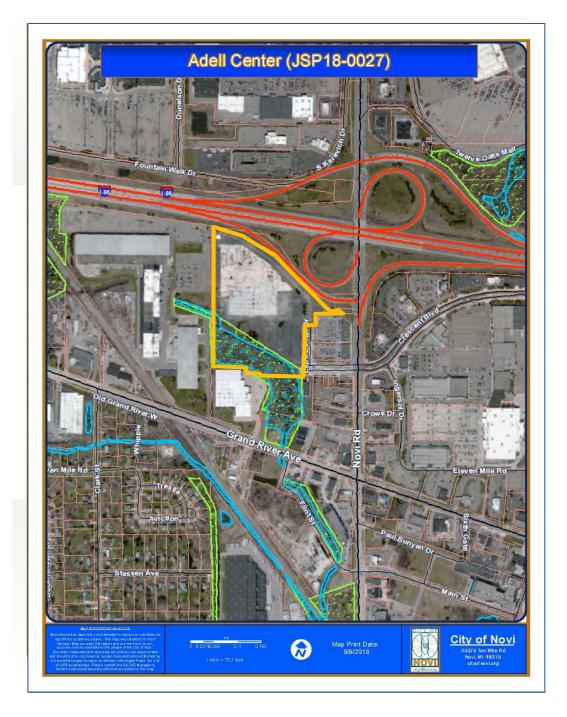
Pete Hill, P.E. Senior Associate Engineer

cc: Lindsay Bell, City of Novi Planner (<u>lbell@cityofnovi.org</u>)
 Sri Komaragiri, City of Novi Planner (<u>skomaragiri@cityofnovi.org</u>)
 Rick Meader, City of Novi Landscape Architect (<u>rmeader@cityofnovi.org</u>)
 Hannah Smith, City of Novi Planning Assistant (<u>hsmith@cityofnovi.org</u>)

Attachments: Figure 1 – City of Novi Regulated Wetland and Woodland Map Woodland Tree Replacement Chart Site Photos



Adell Center Roads & Utilities (JSP18-0027) Woodland Review of the Combined Preliminary & Final Site Plan (PSP18-0110) August 13, 2018 Page 7 of 9



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



Adell Center Roads & Utilities (JSP18-0027) Woodland Review of the Combined Preliminary & Final Site Plan (PSP18-0110) August 13, 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	



Adell Center Roads & Utilities (JSP18-0027) Woodland Review of the Combined Preliminary & Final Site Plan (PSP18-0110) August 13, 2018 Page 9 of 9



Photo 1. Looking northwest across the north end of the proposed development site. This section of the



**Photo 2**. Looking east at area of City-Regulated Woodland located south of the Walled Lake Branch of the Middle Rouge River (ECT, June 19, 2018).



Site Photos

### **RESTORATION PLAN REVIEW**



ECT Project No. 180481

September 5, 2018

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

Re: Adell Center Roads & Utilities (JSP18-0027) Review of the Site Enhancement Plan

Dear Ms. McBeth:

Environmental Consulting & Technology, Inc. (ECT) has completed a review of the Site Enhancement Plan (Sheet 35) for the proposed Adell Center Roads & Utilities project prepared by Greentech Engineering, Inc. dated August 31, 2018 (Plan) ahead of the proposed site development project. The project is located at 43700 Expo Center Drive (Parcel ID 50-22-15-476-045), south of I-96 and north of Grand River Avenue, west of Novi Road in Section 15. The site development plan includes the construction of a mixed-use district with several proposed building sites, associated parking, utilities and underground stormwater detention systems. The current Plan indicates a total of nine (9) building units, with Unit 4 being a parking lot and gazebo.

The Site Enhancement Plan includes proposed activity within areas mapped City-Regulated Wetlands/Watercourses and City-Regulated Woodlands on the City's Wetlands and Woodlands Maps (see Figure 1). Six (6) wetland areas and a section of the Walled Lake Branch of the Middle Rouge River as well as City-Regulated woodland are located on the southern section of the subject site. The wetlands appear to be regulated by the City of Novi as well as by the Michigan Department of Environmental Quality (MDEQ).

The work associated with this Site Enhancement Plan consists of the following activity:

- Removal of invasive species of woody vegetation, including:
  - o Buckthorn
  - o Honeysuckle
- Removal of invasive common reed (Phragmites australis)
- Trimming of City of Novi Regulated Trees

#### Wetland Evaluation

ECT previously met on-site on May 15, 2018 with the applicant's current wetland consultant, King & MacGregor Environmental, Inc. for a wetland boundary verification. ECT also reviewed the *Old Novi Expo: Wetland Delineation and Determination of Jurisdiction* report prepared by BWA Consulting dated October 5, 2017 (i.e., Report). This Report was received by the City by the applicant on May 1, 2018 as part of a wetland boundary verification request for the property.

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

> (734) 769-3004

FAX (734) 769-3164 Adell Center Roads and Utilities (JSP18-0027) Review of the Site Enhancement Plan September 5, 2018 Page 2 of 7

The site is the former home of the Novi Expo Center which closed and the building was demolished in 2012. Currently, the only structure on the property is the existing water tower in the northwest corner of the site. Remnants of the former Novi Expo Center remain including the concrete building slab and the asphalt parking lot. The southern portion of the site (south of the existing asphalt parking lot) contains the Walled Lake Branch of the Middle Rouge River, wetlands, floodplains and trees. This area (approximately 7 acres), contains areas of City-regulated and MDEQ-regulated wetlands.

The focus of the previous site inspection was to review site conditions in order to determine whether Cityregulated wetlands have been accurately located/indicated on-site. BWA completed a wetland delineation on the site on September 22, 2017. Pink wetland boundary flagging was in place at the time of this site inspection. ECT reviewed the flagging and agrees that the wetland boundaries were accurately flagged in the field. Based on the existing vegetation and topography, it is ECT's assessment that the on-site wetlands have been accurately delineated at this time. The BWA Report notes that a total of six (6) wetlands were identified. The following is a brief description of the on-site wetland features.

Wetland 1 – Forested, scrub shrub, and emergent wetland contiguous to the Creek (Walled Lake Branch of the Middle Rouge River). BWA notes that the dominant wetland vegetation includes reed canary grass (*Phalaris arundinancea*), American elm (*Ulmus americana*), and orange jewelweed (*Impatiens capensis*). Wetland hydrology is indicated by saturated soils adjacent to the stream. Hydric (i.e., wetland) soils were identified within the wetland boundaries. This wetland area is essentially confined to the upper banks of the Creek.

Wetlands 2, 3, and 5 – These are isolated emergent depressions within the floodplain (according to FEMA FIRM Panel #0626) of the Walled Lake Branch of the Middle Rouge River. Dominant wetland vegetation includes reed canary grass, orange jewelweed, and wood nettle (*Laportea canadensis*). Wetland hydrology is indicated by water stained leaves and drift lines. Hydric soils were identified within the wetland boundaries. These wetland areas are located south of Wetland 1.

Wetland 4 – This is an area of isolated, forested and emergent depression. Dominant wetland vegetation includes common reed (*Phragmites australis*), American elm, and wood nettle. Wetland hydrology is indicated by water stained leaves. Hydric soils were identified within the wetland boundaries. This wetland area is located in the southwest corner of the site.

Wetland 6 – This area is an emergent swale associated with the Walled Lake Branch of the Middle Rouge River. Dominant vegetation includes reed canary grass, wood nettle, and orange jewelweed. Wetland hydrology is indicated by saturated soils near the surface. Hydric soils were identified within the wetland boundaries. This wetland is located in the southeast corner of the site.

BWA noted in the Report that in their opinion all six (6) on-site wetlands are subject to regulation by the City of Novi as well as MDEQ and that permits would be required for any work proposed within these wetlands.

#### City of Novi Wetland/Watercourse Ordinance Requirements

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



Adell Center Roads and Utilities (JSP18-0027) Review of the Site Enhancement Plan September 5, 2018 Page 3 of 7

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.

Any proposed use of on-site wetlands (if applicable) will require a permit from MDEQ, a City of Novi *Wetland and Watercourse Permit* as well as an *Authorization to Encroach the 25-Foot Natural Features Setback* for any proposed impacts to the 25-foot wetland/watercourse buffers. The Plan does not currently appear to propose direct impacts (i.e., cut, fill, etc.) to wetlands or 25-foot natural features setback buffers and no wetland permits or buffer authorization appears to be necessary.

#### Woodland Evaluation

ECT has reviewed the City of Novi Official Woodlands Map and completed an onsite Woodland Evaluation on June 19, 2018. ECT's in-office review of available materials included the City of Novi Regulated Woodland map and other available mapping. As noted above, a portion of the southern end of the subject property is mapped as City of Novi Regulated Woodlands on the official City of Novi Regulated Wetland and Watercourse Map (see Figure 1). The proposed limits of disturbance for the main portion of the proposed project do not include areas mapped as City-Regulated Woodlands. Some proposed site improvements and the proposed Site Enhancement Plan are however proposed within the area of City-Regulated Woodlands. A compacted limestone pedestrian path has been proposed to be located south of the Walled Lake Branch of the Middle Rouge River.

Previously submitted site plans included an existing tree list (*Tree Inventory Plan*, Sheet 29). This Plan identifies tree tag numbers, diameter-at-breast-height (DBH), common name, condition, and removal status. The tree survey for the area designated as City-Regulated Woodland was included on Sheet 28 (*Woodland Plan*). The surveyed trees have been marked with aluminum tree tags allowing ECT to compare the tree diameters reported on the Plan with the existing trees in the field. ECT found that the Plan appears to accurately depict the location, species composition and the size of the existing trees. ECT took a sample of diameter-at-breast-height (DBH) measurements and found that the data provided on the Plan was consistent with the field measurements.

As noted above, the area north of the Walled Lake Branch of the Middle Rouge River is not mapped as City of Novi Regulated Woodland. In general, the majority of the on-site trees are box elder (*Acer negundo*) and eastern cottonwood (*Populus deltoides*). The site also includes Austrian pine (*Pinus nigra*), green spruce (*Picea pungens*), sugar maple (*Acer saccharum*), black walnut (*Juglans nigra*), American elm (*Ulmus americana*), and several other species. In terms of habitat quality and diversity of tree species, the overall subject site consists of fair to good quality trees. In terms of a scenic asset, wildlife habitat, windblock, noise buffer or other environmental asset, the forested area located on the subject site is considered to be of fair quality.

#### Woodland Requirements

As noted above, the site does contain City of Novi Regulated Woodlands. This mapped regulated woodland area is located south of the Walled Lake Branch of the Middle Rouge River. <u>The Site Enhancement Plan</u> does not propose impacts to any of the on-site, surveyed trees, only the removal of invasive woody <u>vegetation</u>. It should be noted that the existing understory consists mainly of undesirable, invasive plant species such as buckthorn and honeysuckle. The proposed site enhancement work would not be significantly disturbing any existing desirable vegetation that provides beneficial wildlife habitat.



Adell Center Roads and Utilities (JSP18-0027) Review of the Site Enhancement Plan September 5, 2018 Page 4 of 7

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

- 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;
- 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
- 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.

### Site Enhancement Plan Comments

# ECT recommends that the Applicant address the items noted below prior to approval of the Final Site Enhancement Plan:

- 1. In the *Sequence of Removal of Woody Invasive Species* section of the Plan, ECT recommends:
  - a. The Plan shall include information related to the proposed site access locations to be used for getting tools and equipment to the Site Enhancement Area. Crossing the Walled Lake Branch of the Middle Rouge River with a bridge may require a permit from the MDEQ. Perhaps site access authorization from an adjacent property can be obtained.
  - b. The Plan shall include a list of all mechanical equipment that is proposed to be used in order to implement the Site Enhancement Plan. Disturbance of the ground surface shall be minimized and avoided through the use of small, rubber tracked equipment. ECT recommends that all work be done with hand-held equipment where possible and that any vehicles be kept out of the wetland and 25-foot wetland buffer thereby avoiding unauthorized soil disturbance.
  - c. No clearing or cutting of existing vegetation shall commence without the City of Novi Landscape Architect or City Environmental Consultant being present on-site. 48-hour notification shall be given by the applicant prior to the start of such work.
  - d. Treating with chemicals in areas where water is visibly-present requires an Aquatic Nuisance Control Permit from the Michigan Department of Environmental Quality (MDEQ). This permit should not be required in order to complete the treatment of the invasive woody vegetation as proposed.
  - e. Item No. 1: All preservation areas, or plants to be preserved, shall be marked in the field with survey flagging and/or stakes.



Adell Center Roads and Utilities (JSP18-0027) Review of the Site Enhancement Plan September 5, 2018 Page 5 of 7

- f. Item No. 3: Vehicles shall remain outside of the delineated wetland boundaries and the 25-foot wetland setbacks.
- g. Item No. 5: Any dead standing trees that are 14" diameter-at-breast height (DBH) or larger shall be preserved and left standing as wildlife habitat. If desired, these trees can be cut 12-feet or higher off of the ground and left as habitat for bats and or birds, etc.
- h. Items No. 6: All herbicide chemicals shall be applied by a licensed, certified herbicide applicator.
- 2. In the *Sequence of Removal of Woody Invasive Species (Second Year Maintenance)* section of the Plan, ECT recommends:
  - a. Item No. 1: In mid to late spring the Landscape Architect shall conduct a visual survey of invasive species and submit a report to the City of Novi. The report will contain written, graphic and photographic documentation of site conditions. All invasive species that have resprouted shall be re-treated (as outlined in No. 6 and No. 7 of the *Sequence of Removal for Woody Invasive Species*) i.e., a 2<sup>nd</sup> year of invasive species treatment for woody plant species shall be required.
- 3. In the *Sequence of Removal for Phragmites* section of the Plan, ECT recommends:
  - a. Item No. 1: Phragmites shall be treated in late summer (August to September) using Glyphosate-based herbicide applied by a licensed, certified herbicide applicator to achieve effective control.
- 4. In the *Sequence of Removal for Phragmites (Second Year Maintenance)* section of the Plan, ECT recommends:
  - a. Add Item No. 2:

The Phragmites removal program will be deemed complete when the site is free from the invasive Phragmites plants (i.e., Phragmites is eradicated from the site).

5. The Site Enhancement Plan does not currently include a proposal to re-plant/landscape the area of site enhancement after the removal of invasive species has been accomplished. A plan (landscape plan) for restoration planting of appropriate native forbs (plants or seed mixes), shrubs and/or trees shall be provided as part of the Adell Center Roads and Utilities Final Site Plan.



Adell Center Roads and Utilities (JSP18-0027) Review of the Site Enhancement Plan September 5, 2018 Page 6 of 7

### **Recommendation**

ECT recommends that the Applicant address the items noted in the *Site Enhancement Plan Comments* section of this letter prior to approval of the Final Site Enhancement Plan and provide a restoration planting plan as part of the Adell Center Roads and Utilities Final Site Plan.

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

#### Sincerely,

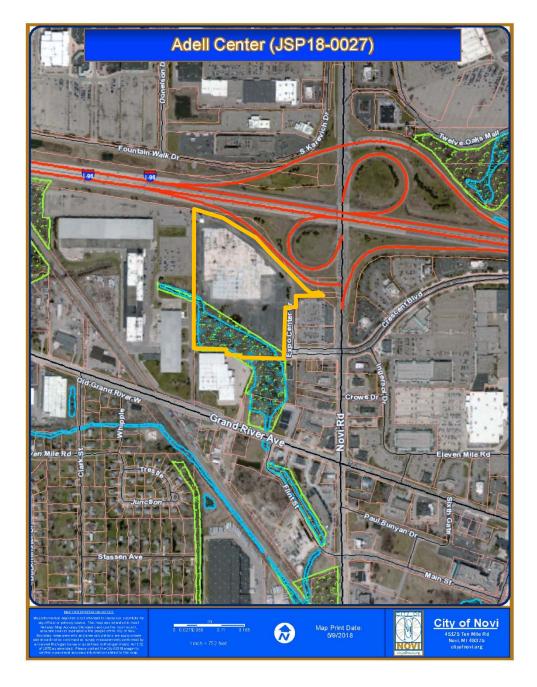
### ENVIRONMENTAL CONSULTING & TECHNOLOGY, INC.

cc: Lindsay Bell, City of Novi Planner (<u>lbell@cityofnovi.org</u>)
 Sri Komaragiri, City of Novi Planner (<u>skomaragiri@cityofnovi.org</u>)
 Rick Meader, City of Novi Landscape Architect (<u>rmeader@cityofnovi.org</u>)
 Hannah Smith, City of Novi Planning Assistant (<u>hsmith@cityofnovi.org</u>)

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



Adell Center Roads and Utilities (JSP18-0027) Review of the Site Enhancement Plan September 5, 2018 Page 7 of 7



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



**TRAFFIC REVIEW** 

# ΑΞϹΟΜ

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

Project name: JSP18-0027 – Adell Center Roads and Utilities PSP/FSP Traffic Review

From: AECOM

Date: August 17, 2018

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

CC:

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

# Memo

Subject: JSP18-0027 Adell Center Roads and Utilities PSP/FSP Traffic Review

The roads and utilities preliminary / final site plan was reviewed to the level of detail provided and AECOM recommends approval of the preliminary site plan and denial for the applicant to move forward on the final site plan based on several undetermined site items including driveway spacing, pavement markings and/or other missing site elements, as detailed below.

# **GENERAL COMMENTS**

- 1. The applicant, Orville Properties, LLC, is proposing a multi-use development located on the west side of Novi Road, south of I-96, with one point of access to Crescent Blvd. The applicant is proposing eight (8) individual units within the project:
  - a. IFLY indoor skydiving
  - b. Planet Fitness
  - c. Fairfield hotel
  - d. Off-street parking
  - e. Drury hotel
  - f. Sit-down restaurant
  - g. Sit-down restaurant
  - h. Carvana
- 2. Crescent Blvd is under the jurisdiction of the City of Novi.
- 3. The parcel is currently zoned EXPO, and the applicant is proposing to rezone to TC (Town Center District) with a Planned Rezoning Overlay (PRO).
- 4. All traffic review comments on the proposed internal site operations are discussed in the revised PRO concept submittal under a separate cover letter.
- 5. Summary of traffic-related waivers/variances related to Adell Center Drive only:
  - a. At the time of the preliminary/final site plan, the applicant is requesting the following traffic-related waivers or variances related to Adell Center Drive. Notes (*in italics*) following each proposed deviation include AECOM's agreement or disagreement with the deviation.
    - i. City Council Variance (11-194(a)(7)) for the maximum length of the proposed cul-de-sac street length of 1450 feet from the centerline intersection of Crescent Boulevard to the center of the bulb of the Adell Center Drive cul-de-sac. *AECOM would support this variance*.
    - ii. City Council variance for lack of a traffic impact study due to the city is currently undertaking a traffic study for this area. The applicant has provided trip generation information for the development that

will be incorporated into the region-wide traffic impact study. AECOM supports the variance for lack of a full traffic impact study as part of the plan review process such that the applicant understands that they may be requested to provide additional traffic-related data and information during the review at the City's discretion. The applicant should also confirm understanding that they may be subject to certain off-site and/or on-site mitigation measures as a result of the region-wide traffic impact study.

- b. Once additional information is received from the applicant, further review will be performed and additional required deviations may be identified. Items that may require additional deviations include:
  - i. Should the minimum same side driveway spacing requirements not be met, the applicant may be required to seek a deviation.
  - ii. Should the proposed number of drive approaches and/or the drive approach system not comply with the guidance in the ordinance, the applicant may be requested/required to provide justification and/or apply for deviations.

# **TRAFFIC IMPACTS**

- The applicant provided a trip generation analysis, prepared by Bergmann, which outlines the anticipated number of daily, AM peak and PM peak trips that each of the various land uses may be expected to generate. AECOM reviewed the trips generation estimates and accepts the calculations as provided.
- 2. The number of new trips expected to be generated by the entire development are as follows:

Trip Generation Summary					
	Estimated Trips	Estimated Peak- Direction Trips	City of Novi Threshold	Above Threshold?	
AM Peak-Hour Trips	188	102	100	Yes	
PM Peak-Hour Trips	334	186	100	Yes	
Daily (One- Directional) Trips	3,988	N/A	750	Yes	

- a. The development trip generation estimates 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 has requested a variance for the completion of a traffic impact study because the development will be included in the region-wide TIS that is underway by AECOM. Reference item 4.a.vi under General Comments for further potential conditions related to a traffic impact study and/or mitigation measures that may be required.
- b. Additionally, AECOM performed a preliminary analysis to assess roadway capacity impacts of the proposed Adell Center development. The initial results of that analysis indicate that the intersection of Novi Road and Crescent Boulevard is expected to be able to accommodate the additional traffic during the AM and PM peak periods. The intersection of Novi Road and Grand River operates under existing congested conditions and may worsen with the added traffic demand of the development, specifically the eastbound and southbound left turn movements.

# **EXTERNAL SITE ACCESS AND OPERATIONS**

The following comments relate to the external interface between the proposed development and the surrounding roadway(s). It should be noted that each commercial driveway interface with Adell Center Drive is also considered an external access point for purposes of this review letter.

- 1. The applicant has proposed the site roadway to be a private street with a width of 36 feet B/B. and a 70 foot access easement.
  - a. While it is not anticipated that any of the currently proposed sites would warrant left turn passing lanes, the inclusion of a center left turn lane would likely have positive impacts on traffic flow throughout the development. It is recommended that the developer develop the road with a three-lane cross-section to further accommodate left-turning activities and provide a wider "buffer zone" for large vehicles entering/exiting the various facilities without entering into the opposing traffic thru lane.
  - b. The applicant should update the note near Unit 2 on sheet 10 to indicate 36' B/B instead of 30' B/B for Adell Center Drive.
- The applicant has indicated a length of 1,540 feet for Adell Center Drive. Section 11-194(a)(7) indicates a maximum cul-de-sac street length of 800 feet for all developments except for R-A zoned properties. The applicant is seeking a City Council variance for exceeding the maximum street length.
  - a. Additionally, Section 11-194(a)(7) states a required outside pavement radius of 54 feet for the cul-de-sac. The developer is proposing back-of-curb radius of 58 feet.
- 3. The applicant has proposed a secondary point of access to the site at the water tower with a gate per the Fire Department.
  - a. The applicant has indicated that a gate will be provided but does not show the specific gate location(s) on the site plan.
    - i. The applicant should provide the proposed location for the gate(s).
    - ii. Additionally, note that, per Figure VIII-K, an "EMERGENCY ACCESS ONLY" sign is required if the gate is more than 100; from the beginning of the access drive.
- 4. The applicant has proposed a 20 foot wide emergency access drive at the end of the cul-de-sac. This width does not match the 16 foot width on sheet 2 of the Paving Standard Details.
  - a. Sheet 10 indicates it is a gravel driveway, however, the detail on sheet 2 of the standard paving details indicates HMA.
  - b. The applicant should include the appropriate signing and emergency access gate per Figure VIII-K of the City's Code of Ordinances.
- 5. The applicant has indicated a 25 MPH proposed speed along Adell Center Drive.
- 6. The applicant should review the two (2) proposed (90 degree) curves along Adell Center Drive and provide calculations for the proposed radius given the 25 MPH design speed, OR may be requested to incorporate additional traffic calming/control measures (e.g., signing) near these turns to improve maneuverability and safety for motorists.
- 7. The applicant shall provide a clear vision area for all drive approaches to Adell Center Drive in accordance with Section 216(b).
- 8. The applicant is encouraged to provide a joint drive approach system throughout the development. If each parcel within the development will be independently owned, the applicant may be required to execute ingress/egress easements, as applicable.
- 9. The applicant shall indicate same side driveway spacing for commercial driveways proposed along Adell Center Drive. Commercial drive approaches must be spaced according to the minimum requirements indicated in Section 11-216(d)(1)d for a speed limit of 25 MPH, thereby indicating a required driveway spacing of 105 feet. Should the minimum driveway spacing requirements not be met, the applicant may be required to seek a deviation.
- 10. The applicant should review the driveway placement with relation to the sharp horizontal curves along Adell Center Drive and consider alternative placement for purposes of creating safe and effective traffic operations throughout the development.
- 11. The applicant should review Section 216(d)(1)a-c to review driveway spacing and number of driveways provided per parcel. Should the proposed drive approach system not comply with the guidance in the ordinance, the applicant may be requested/required to provide justification and/or apply for deviations.
- 12. The driveway approach designs will be reviewed as part of each unit's individual site plan review.
- 13. The applicant should consider pedestrian activity and connections across Adell Center Drive and to the various parcels throughout the site in an effort to provide a more walkable district. Any such pedestrian facilities shall be designed in accordance with City standards and the requirements of the American Disability Act. Example locations where connections (e.g., crosswalks) could be considered would be in front of Units 5 and 6 and Units 3 and 7.

# **INTERNAL SITE OPERATIONS**

The following comments relate to the on-site design and traffic flow operations of Adell Center Drive. The applicant should refer to the revised PRO traffic review letter for additional comments regarding on-site topics such as general traffic flow and parking facilities.

# **Sidewalk Requirements**

- 1. The applicant is proposing sidewalk along both sides of Adell Center Drive.
- 2. The location of the sidewalk along Adell Center Drive is proposed to be located such that the outside edge is 15 feet from the back of curb, which meets City standards.
- 3. The applicant is proposing a sidewalk width of six (6) feet along Adell Center Drive which is in accordance with the City's Master Plan for Bicycle and Pedestrian Paths.
- 4. The applicant should include any sidewalk ramp/detectable warning surface locations and details in future submittals.
- 5. The applicant should review the walkability of the development and provide additional non-motorized connections as applicable including crossings across Adell Center Drive. The only proposed crossing for pedestrians is located at Adell Center Drive and Crescent Boulevard.

# **SIGNING AND STRIPING**

- 1. 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.
  - a. The applicant should provide a signing quantities table and additional details (MMUTCD designation and proposed size) in future submittals.
  - b. The applicant should include proposed signing locations throughout the development.
    - i. The applicant should consider including keep right (R4-7) signs in the medians of the boulevard section of Adell Center Drive.
  - c. The applicant should refer to the City of Novi Traffic Control Sign Standards for any proposed street name signs.
  - d. The applicant provided the following notes and details on sheet 10.
    - i. All roadside signs should be installed two feet from the face of the curb to the near edge of the sign.
    - Single signs with nominal dimensions of 12" x 18" or smaller in size shall be mounted on a galvanized 2 lb. U-channel post. Multiple signs and/or signs with nominal dimension greater than 12" x 18" shall be mounted on a galvanized 3 lb. or greater U-channel post as dictated by the weight of the proposed signs.
    - iii. Traffic control signs shall use the Federal Highway Administration (FHWA) Standard Alphabet series.
    - iv. Traffic control signs shall have High Intensity Prismatic (HIP) sheeting to meet FHWA retroreflectivity requirements.
  - e. The applicant should provide notes and details related to proposed pavement markings.
    - i. Provide details for pavement markings along Adell Center Drive including a left center turn lane, which is the preferred layout, and any crosswalk markings.
    - ii. Provide details for any proposed pavement marking arrows.

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

Sincerely,

AECOM

Memo

Marres Detos

Maureen N. Peters, PE Senior Traffic/ITS Engineer

Paulo K. Johnson

Paula K. Johnson, PE Senior Transportation Engineer

FIRE REVIEW



**CITY COUNCIL** 

Mayor Bob Gatt

Mayor Pro Tem Dave Staudt

Andrew Mutch

Wayne Wrobel

Laura Marie Casey

Gwen Markham

Kelly Breen

**City Manager** Peter E. Auger

#### Director of Public Safety 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 July 27, 2018

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

RE: Adell Center Roads and Utilities

PSP# 18-0110

## Project Description:

Roads and Utilities for the Adell Center project.

Comments:

- All fire hydrants MUST in installed and operational prior to any building construction begins.
- Water flow hydraulic calculations for units 1, 2, 4, 6, 7 & 8 **MUST** be turned into the Fire Marshal's office for review. (For the 4" fire services leads).
- MUST add water-main sizes on plans for review.
- Hydrant spacing is <300' from fire hydrant to fire hydrant.</li>
   Novi City Ordinance 11-68(F)(1)c.
- **MUST** provide documentation to the Fire Marshal's office the agreement from the neighboring business for the secondary access point.
- Fire access roads **MUST** designed and maintained to support a 35 ton weigh requirements. **IFC 503.2.3**.

# Recommendation:

NOT APPROVED

Sincerely,

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

cc: file

Novi Public Safety Administration 45125 Ten Mile Road Novi, Michigan 48375 248.348.7100 248.347.0590 fax

cityofnovi.org

APPLICANTS RESPONSE LETTER



September 4, 2018

Ms. Sri Ravali Komaragiri Planner City of Novi Planning Department 45175 10 Mile Road Novi, Michigan 48375

## Re: ADELL CENTER Roads and Utilities with a Site Condominium Submittal Project #JSP 18-27 Greentech Job No. #17-334

Ms. Komaragiri and consultants,

The following is our response to the Plan Review Center Report, dated August 16th, 2018, relating to the above referenced project:

Planning Review Chart: (addressing applicable comments in bold)

- Overall PRO plan will be included as "Illustrative Plan" in the next submittal.
- Narrative will be revised as requested.
- ROW information will be revised.
- Master Deed draft will be provided prior to final stamping sets.
- Applicant has requested deviations as suggested.
- A detailed Wetland/Woodland plan has been work through in great detail the past two weeks and plan sheets are attached with this response letter for reference. This plan has been developed in coordination with the Applicant, GreenTech, Novi consultants, and GreenTech consultants. (Prior to Planning Commission Meeting)
- Will provide staking for path as requested.
- Additional Lighting information will be provided as requested.
- Will refer to plan review chart for additional comments.
- A recent, scaled, aerial photograph plan will be provided.
- Sheet index will be corrected.
- Unit size and coverage will be added for each unit.
- Depth to Width ratio will be provided for each lot.
- Units will provide a secondary point of access.

- Noted that these plans will need to be approved by City Council as well.
- Noted that site plan approval will be required for each individual lot.
- Additional amenities provided per PRO agreement.
- Center turn lane provided as requested.
- Crosswalks added as requested.
- Noted that photometric plans will be required for each unit.
- Decorative lights will be considered, will work with Novi for a solution.
- Lighting for streets will be provided per Novi and PRO agreement requirements.

# Engineering Review: (dated 08-16-2018)

Darcy Rechtien, P.E. City of Novi

- All items (1-61) will be provided at the time of Final Site Plan submittal.
- All items (62-94) will be provided as required.

# Landscaping Review (dated 08-08-2016)

Rick Meader, City of Novi

- General Notes Call outs for each focus area will be provided at the time of Final Site Plan submittal.
- The landscaping that is not part of the Road and Utilities Construction is removed from the plans.
- All street lighting will be provided at the time of Final Site Plan submittal.
- The I-96 berm will be revised to undulate between 36" and 42" height.
- All comments in the Street tree requirements, Adjacent to Public Rights-of-Way, Corner Clearance, Snow Deposit and Plant List sections will be addressed and additional information will be provided at the time of Final Site Plan submittal.

## Wetlands Review (dated 08-13-2018)

Pete Hill, P.E., Environmental Consulting and Technology, Inc.

The following responses address those comments listed in the ECT Wetland and Water Course comments section of their review letter dated August 13, 2018.

- 1. No grading will take place within the wetland #1 as part of this project. The proposed pedestrian bridge will completely span wetland #1.
- 2. The details of the proposed pedestrian bridge are indicated on sheet XX of the submittal package. The pedestrian bridge will span the entire wetland #1. The only impacts to wetland #1 will include the removal and replacement of the existing storm sewer end sections that will be replaced at the same invert elevations as the existing.
- 3. Further details of the compacted aggregate walking path will be provided as part of the final site plan submittal. As indicated on the site enhancement plan sheet

35, we note that the proposed walking path will be staked and the proposed trail location will be reviewed with ECT and city staff prior to construction.

- 4. There is no proposed wetland fill as part of this project.
- 5. The 25' wetland buffer area quantities have been added and tabulated on sheet 34 of the plan set.
- 6. All proposed 25' wetland buffer impacts have been quantified and tabulated on sheet 34 of the plan set.
- 7. We are currently preparing a MDEQ application of all of the proposed MDEQ regulated wetland impacts.
- 8. Comment noted.
- 9. The proposed wetland setback restoration seed mixtures will be provided as part of the final site plan submittal.
- 10. No snow storage from the proposed Adell Center drive will be located directly adjacent to the wetland areas, therefore we do not anticipate any direct runoff from snow storage areas into the existing wetlands.
- 11. The final site plan will be revised to include conservation easement signage along all of the existing wetland areas. The signage indicated on the landscape plan is a picture of an existing sign from another project in the city. The signs installed for this project will be labeled Adell Center.
- 12. The plans have been revised to note that the proposed pathway will be staked and field reviewed with the wetland consultant prior to installation. The pathway location may be revised in the field as required to minimize impacts to the wetland and buffer areas.
- 13. All proposed plans will be reviewed by the City of Novi engineering department. All individual sites within the development will provide pre-treatment structures.
- 14. A site enhancement plan has been added to the plan set. See sheet 35

# Woodlands Review (dated 08-13-2018)

Pete Hill, P.E., Environmental Consulting and Technology, Inc.

The following responses address those comments listed in the ECT Woodland review letter dated August 13, 2018.

- 1. The proposed woodland conservation easement will be indicated around the proposed replacement trees as part of the final site plan.
- 2. The discrepancy will be clarified as part of the final site plan.
- 3. Further details of the compacted aggregate walking path will be provided as part of the final site plan submittal. As indicated on the site enhancement plan sheet 35, we note that the proposed walking path will be staked and the proposed trail location will be reviewed with ECT and city staff prior to construction.
- 4. Comment Noted.
- 5. Comment Noted.
- 6. Comment Noted.
- 7. We anticipate planting all replacement trees on-site, therefore payment to the City of Novi tree fund is not anticipated.

- 8. A conservation easement will be granted over the woodland replacement tree area.
- 9. A site enhancement plan has been added to the plan set. See sheet 35

**Traffic Review** (dated 08-17-2018) Maureen Peters, P.E., AECOM

# GENERAL COMMENTS

• All items (1-5) noted.

# TRAFFIC IMPACTS

• All items (1-2) noted.

# EXTERNAL SITE ACCESS AND OPERATIONS

- 1. Will revise as requested.
- 2. Noted.
- 3. Gates and signs will be provided per Novi requirements and clearly shown on the plans.
- 4. Dimension of 20' wide and temporary gravel will be provided.
- 5. Noted.
- 6. Noted.
- 7. Will provide as required.
- 8. Noted.
- 9. Noted.
- 10. Noted.
- 11.Noted.
- 12. Noted.
- 13. Provided per PRO plan approved by planning commission.

## INTERNAL SITE OPERATIONS

• Noted.

## SIDEWALK REQUIREMENTS

- 1. Noted.
- 2. Noted.
- 3. Noted.
- 4. Will provide as requested.
- 5. Provided per PRO plan approved by planning commission.

## SIGNING AND STRIPING

1. Will provide as requested.

### Fire Department Review (dated 07-27-2018)

Kevin S. Pierce, City of Novi

- All fire hydrants will be installed prior to building construction beginning. There will be a hydrant located within 100' feet of the building FDC. Stubs for additional hydrants will be provided (coordinated) as needed on the Roads and Utilities package to ensure not having to cut in tees in the future.
- Individual unit representatives have been contacted for this information and informed to provide it this upcoming week.
- Will add additional water main sizes per request.
- Hydrant spacing will be less than 300'.
- An agreement with the neighboring parcel to provide a secondary access point is currently being worked on.
- Fire access roads in the Roads and Utilities package will meet the 35 ton requirement. GreenTech also informed individual unit representatives that this comment also applies to their individual sites.

Please feel free to contact our office with any questions or concerns, regarding the Roads and Utilities response letter, Woodland/Wetland Restoration Plans.

Sincerely,

Jason Fleis. P.E. GreenTech Engineering, Inc.



September 7, 2018

Ms. Sri Ravali Komaragiri Planner City of Novi Planning Department 45175 10 Mile Road Novi, Michigan 48375

### Re: ADELL CENTER Roads and Utilities Site Enhancement Plan (Wetland & Woodland) Project #JSP 18-27 Greentech Job No. #17-334

Ms. Komaragiri and consultants,

The following is our response to the Review of the Site Enhancement Plan, dated September 5th, 2018, relating to the above referenced project:

## Pete Hill, P.E., Environmental Consulting and Technology, Inc.

The following responses address those comments listed in the ECT Wetland and Water Course comments section of their review letter dated August 13, 2018.

- 1. Noted.
  - a) Noted, will obtain authorization as required.
  - b) Will comply, use of hand held equipment within 25' buffer and wetland areas.
  - c) Will comply.
  - d) Noted.
  - e) Will comply.
  - f) Will comply.
  - g) Will comply.
  - h) Will comply.
- 2. Will comply.
- 3. Will comply.
- 4. Will comply.
- 5. Will work with staff/consultants to provide the appropriate seed mixes for the site enhancement area. Will provide a restoration planting plan.

Please feel free to contact our office with any questions or concerns, regarding the Site Enhancement response letter.

Sincerely,

eis

Jason Fleis. P.E. GreenTech Engineering, Inc.