

CITY COUNCIL AGENDA ITEM

Date: March 8, 2023

To: Mark F. Miller, City Manager

From: Robert J. Bruner, Assistant City Manager

R. Brent Savidant, Community Development Director

Subject: PUBLIC HEARING – LONG LAKE AND CROOKS PLANNED UNIT DEVELOPMENT

(File Number PUD2020-0018) - Revised Concept Development Plan, Northwest corner

of Long Lake and Crooks, Section 8, Currently Zoned O Office.

The applicant Gensler submitted a Concept Development Plan (CDP) application for a Planned Unit Development (PUD) for the subject property. The site is currently vacant and is 24.88 acres in size. The applicant proposes a mixed-use project comprised of residential, office, lodging, restaurants, parking deck, and a range of outdoor amenities.

A PUD is a development option that provides flexibility in the design and use of mixed-use projects. It is a multi-step process. The first step in the process is the CDP. For this step, the applicant seeks the following: (1) Approval of the overall concept; (2) Approval of the PUD Agreement; and, (3) Rezoning of the parcel to PUD. The next step in the process will be the Preliminary Development Plan (PDP). During the PDP step, detailed site plans are submitted for each phase of the project. For this project, we can expect numerous PDP's to be submitted over several years. The Planning Commission is a recommending body for PUD's; City Council is responsible for approving the CDP and PDP.

The Planning Commission considered this application at numerous meetings and the concept has evolved based on discussion and feedback. A comparison of the original concept and revised concepts is summarized in the attached report.

The Planning Commission considered this application at a public meeting on January 24, 2023 and recommended approval of the PUD by a 9-0 vote. A City Council public hearing has been scheduled for March 13, 2023.

Legal Review

This item was submitted to the City Attorney for review pursuant to City Charter Section 3.17.



CITY COUNCIL AGENDA ITEM

Attachments:

- 1. Maps.
- 2. Report prepared by Carlisle/Wortman Associates, Inc.
- 3. Concept Development Plan with attachments.
- 4. PUD Agreement (final version).
- 5. Minutes from January 12, 2021 Planning Commission Regular meeting (excerpt).
- 6. Minutes from February 8, 2022 Planning Commission Regular meeting (excerpt).
- 7. Minutes from August 9, 2022 Planning Commission Regular meeting (excerpt).
- 8. Minutes from September 27, 2022 Planning Commission Regular meeting (excerpt).
- 9. Minutes from January 24, 2023 Planning Commission Regular meeting (excerpt).
- 10. Public comment.

RBS,G:\PUDs\PUD 017 JPLN2020-0018 LONG LAKE & CROOKS DEVELOPMENT\20230313 Long Lake and Crooks PUD City Council Public Hearing.docx

TROY

GIS Online



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Note: The information provided by this application has been compiled from recorded deeds, plats, tax maps, surveys, and other public records and data. It is not a legally recorded map survey. Users of this data are hereby notified that the source information represented should be consulted for verification.

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GIS Online



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117 NORTH FIRST STREET SUITE 70 ANN ARBOR, MI 48104 734.662.2200 734.662.1935 FAX

Date: January 16, 2023

Planned Unit Development Concept Review For City of Troy, Michigan

Project Name: Long Lake and Crooks Planned Unit Development

Plan Date: November 2022

Location: Northwest Corner of Long Lake and Crooks

Current Zoning: O, Office

Proposed Zoning: Planned Unit Development (PUD)

Action Requested: Planned Unit Development (PUD) Concept Plan Approval

PROJECT AND SITE DESCRIPTION

A Planned Unit Development (PUD) application has been submitted to the City for the development of a mixed-use development at the northwest corner of Long Lake Road and Crooks Road. The 24-acre site is currently vacant with significant tree cover and wetlands.

<u>Proposed Development</u>

Though conceptual and subject to change, the applicant is proposing the following mix of uses:

- 1. Four to ten-story office complexes in two buildings
- 2. Parking surface and deck
- 3. Three to seven-story residential apartment building
- 4. Three to seven-story hotel/residential building
- 5. Three restaurant/retail buildings

Long Lake – Crooks PUD Concept Review January 16, 2023

- 6. Wetland preservation
- 7. Site amenities: Outdoor activity areas, pedestrian amenities, natural feature preservation, and programed outdoor space



Location of Subject Property:

Northwest Corner of Long Lake and Crooks

Proposed Use of Subject Parcel:

Mixed Use Development

Current Zoning:

O, Office

Proposed Zoning:

Planned Unit Development (PUD)

Surrounding Property Details

Direction	Zoning	Use
North	O, Office	Office
South	O, Office	Office/Commercial
East	RC, Research Center	Office
West	O, Office	Office

PUD PROCESS

A Planned Unit Development project is viewed as an integrated development concept. To that end, the provisions of this Article are not intended to be used as a device for avoiding the zoning requirements that would otherwise apply, but rather to allow flexibility and mixture of uses, and to improve the design, character and quality of new development. The use of a Planned Unit Development to permit variations from other requirements of this Ordinance shall only be approved when such approval results in improvements to the public health, safety and welfare in the area affected, and in accordance with the intent of this Article.

The approval of a Planned Unit Development (PUD) is a three-step process:

Step 1-Concept Plan: The first step shall be application for and approval of a Concept Development Plan, which requires a legislative enactment amending the zoning district map so as to reclassify the property as a Planned Unit Development. A proposed Development Agreement shall be included and incorporated with the Concept Development Plan, to be agreed upon and approved coincident with said Plan. The Concept Development Plan and Development Agreement shall be approved by the City Council following the recommendation of the Planning Commission. Such action, if and when approved, shall confer upon the applicant approval of the Concept Development Plan and shall rezone the property to PUD in accordance with the terms and conditions of the Concept Development Plan approval.

Step 2- Preliminary Development Plan Approval: The second step of the review and approval process shall be the application for and approval of a Preliminary Development Plan (preliminary site plan) for the entire project, or for any one or more phases of the project. City Council shall have the final authority to approve and grant Preliminary Development Plan approvals, following a recommendation by the Planning Commission.

Step 3- Final Development Plan Approval: The third step of the review and approval process shall be the review and approval of a Final Development Plan (final site plan) for the entire project, or for any one or more phases of the project, and the issuance of building permits. Final Development Plans for Planned Unit Developments shall be submitted to the Zoning Administrator for administrative review, and the Zoning Administrator, with the recommendation of other appropriate City Departments, shall have final authority for approval of such Final Development Plans.

The applicant is seeking a recommendation of approval for their Concept Plan.

PUD INTENT

As set forth in Section 11.01, the intent of the Planned Unit Development option is to permit flexibility in the design and use of residential and non-residential land which, through the implementation of an overall development plan, when applicable to the site, will:

- 1. Encourage developments that will result in a long-term contribution to social, environmental and economic sustainability in the City of Troy.
- 2. Permit development patterns that respond to changing public and private needs.
- 3. Encourage flexibility in design and use that will result in a higher quality of development and a better overall project than would be accomplished under conventional zoning, and which can be accommodated without sacrificing established community values.
- 4. Provide for the long-term protection and/or preservation of natural resources, natural features, and/or historic and cultural resources.
- 5. Promote the efficient use and conservation of energy.
- 6. Encourage the use, redevelopment and improvement of existing sites where current ordinances do not provide adequate protection and safeguards for the site or its surrounding areas, or where current ordinances do not provide the flexibility to consider redevelopment, replacement, or adaptive re-use of existing structures and sites.
- 7. Provide for enhanced housing, employment, recreation, and shopping opportunities for the citizens of Troy.
- 8. Ensure the compatibility of design and use between various components within the PUD and with neighboring properties and uses. 9. Ensure development that is consistent with the intent of the Master Plan.

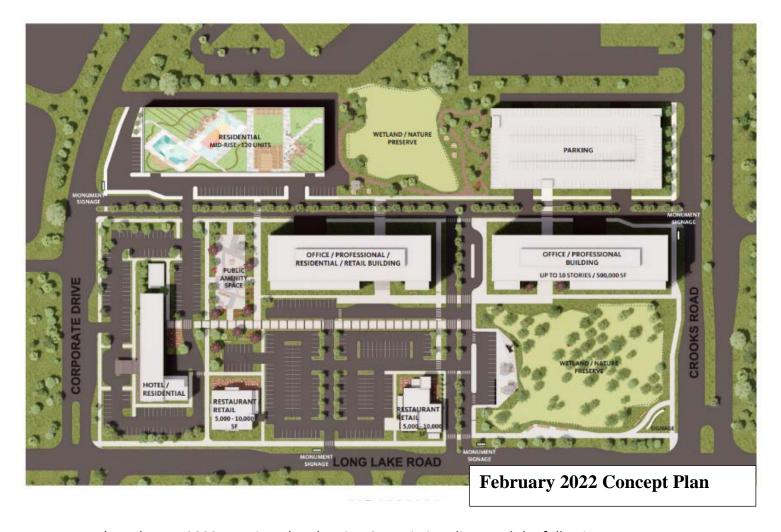
PREVIOUS CONCEPT PLANS

The design concept has evolved from January 2021 to January 2023.



At the January 2021 meeting, the Planning Commission discussed the following:

- More integration of mix of uses
- More activation of uses along Long Lake Road
- Water feature; location, vocal point, community attraction.
- Residential key component; multi-family, live/work
- Density and massing of project; building height
- Preservation of existing green space
- Applicant request for flexibility as relates to market demand and City vision
- Viability of office space and hotel
- Outdoor activities and attractions to engage residents and community
- Destination point for family and community gatherings
- Parking; expand parking structure, reduce surface parking, charging stations for electric vehicles
- Limited available land in City for development of this size
- Potential to attract large office headquarters



At the February 2022 meeting, the Planning Commission discussed the following:

- Create a destination point to attract people from within the complex and throughout the City
- Integrate a plaza, pedestrian path, promenade, village-like characteristics
- Reduce surface parking
- Provide more walkability
- Centrally relocate parking deck
- Reconfigure placement of buildings to connect to public amenity space
- Expand and centrally relocate public amenity space
- Be bold and creative with expanse of property
- Provide a visual illustration of project, such as a three-dimensional model



At the July 2022 meeting, the Planning Commission discussed the following:

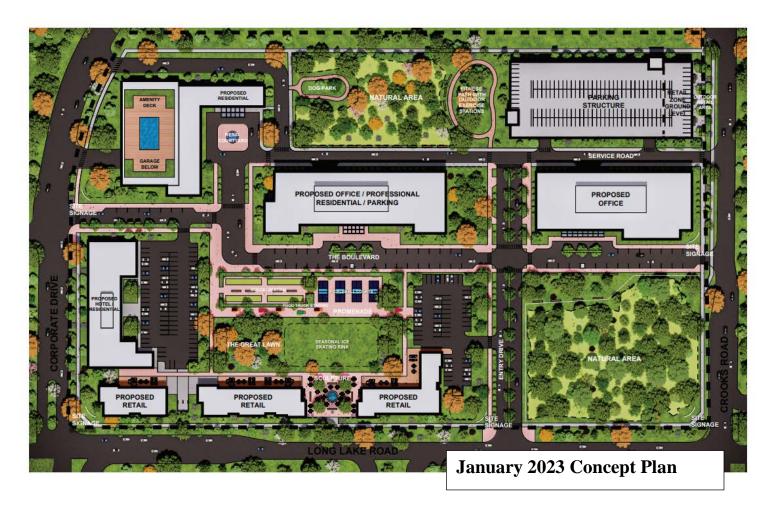
- Flexibility in terms of what gets built, timing and location as proposed by applicant
- Significance in determining appropriate uses and building heights
- Gateway to North Troy and wayfinding signage
- PUD Development Agreement
- Urban Residential (UR) zoning district; high density residential district in line with Master Plan
- Preservation of State-regulated wetlands
- Tree survey and mitigation; determined at each development phase, must meet site plan requirements
- Green space/open space must be generally consistent with approved concept plan; what, where, size, whether for public use determined at each development phase and must meet site plan requirements
- Housing types must be generally consistent with approved concept plan and must meet site plan requirements



At the September 2022 meeting, the Planning Commission discussed the following:

- Prepare a brochure/pamphlet to illustrate the community gathering space
- Food trucks; parking, competition with on-site restaurants
- Seasonal gathering space; functionality
- Add gardens, play structure
- Location of pickleball courts and outdoor exercise stations
- Parking
 - Applicant advised boulevard offers on-street parallel parking.
 - o Parking deck and office tower; levels of parking.
 - Shared parking.
 - o Review of parking at each development phase.
- Retail/restaurant buildings; facilitation of loading/unloading and waste management.
- Provide a 'grand' and 'eye-catching' entrance to development
- Hub for public transportation

CONCEPT PLAN- JANUARY 2023



After the September 2022 Planning Commission review, the applicant resubmitted a revised concept plan. Major changes since last Planning Commission review:

- Added trees to the "Great Lawn"
- Added internal pedestrian cross walks
- Added food truck staging area in "promenade"
- Converted "fitness center" in north natural area to "dog park"
- Added pedestrian area around retail/restaurant area that fronts on Long Lake Road
- Reconfigured parking around retail/restaurant area
- Removed parking from natural area that is located at southeast corner of site

DEVELOPMENT AREAS, and AMENITY AREAS

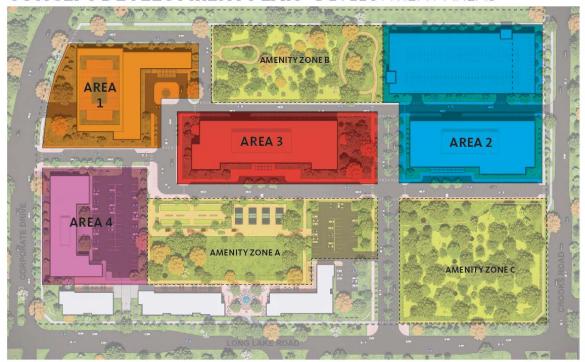
The applicant is proposing four (4) separate development areas and associated amenities areas. The numbering of the development areas is not reflective of the phasing as the applicant seeks flexibility on phasing based on market conditions.

Development Areas

The applicant has outlined the use parameters of the development areas in Section 2.2 (page 3) of the PUD Agreement:

- Development Area 1: Residential uses permitted as of right or requiring special approval, and their accessory uses, consistent with such uses in the UR – Urban Residential District and all associated surface parking.
- Development Area 2: Office uses permitted as of right or requiring special approval, and their accessory uses, consistent with such uses in the OM - Office Mixed Use District, the O - Office District, or the GB-General Business District, as referenced in the Zoning Ordinance, and a multistory parking structure and surface parking features.
- Development Area 3: Residential uses permitted as of right or requiring special approval, and their accessory uses, consistent such uses in the UR Urban Residential District as referenced in the Zoning Ordinance and all associated surface parking; Office uses permitted as of right or requiring special approval, and their accessory uses, consistent with such uses in the OM Office Mixed Use District, the O Office District, or the GB-General Business District, as referenced in the Zoning Ordinance; "Restaurant" and/or "Retail Business or Retail Sales" uses as defined by the Zoning Ordinance; Conference, meeting, and banquet facility uses permitted as of right or requiring special approval, and their accessory uses consistent with such uses the GB General Business District in the Zoning Ordinance; and, all associated surface parking.
- Development Area 4: Lodging or extended stay facility uses permitted as of right or requiring special approval, and their accessory uses, consistent with such uses in the GB General Business District identified in the Zoning Ordinance; and, Residential uses permitted as of right or requiring special approval, and their accessory uses, consistent such uses in the UR Urban Residential District as referenced in the Zoning Ordinance and all associated surface parking.
- Restaurant/Retail Areas: "Restaurant" and/ or "Retail Business or Retail Sales" uses as
 defined by the Zoning Ordinance, and their accessory uses, and all associated surface
 parking. At the discretion of the Developer, any or all of the Restaurant/Retail Areas)
 may be: (i) constructed at any time without being part of any Phase after the Developer
 has commenced construction of the first Phase; or, (ii) constructed at any time as part of
 any Phase.

CONCEPT DEVELOPMENT PLAN - DEVELOPMENT AREAS







Long Lake & Crooks Concept Development Plan

November 28, 2022 A-6

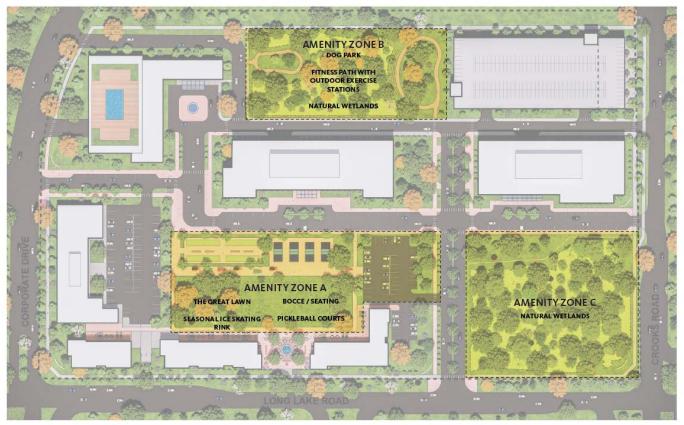
Amenity Areas

The applicant has outlined the use parameters of the amenity areas in Section 2.2 (page 3) of the PUD Agreement:

- Amenity Zone A "Open Space" as defined by the Zoning Ordinance for use as an open field activity area, including bocce ball court, pickleball courts, seasonal ice-skating rink, and associated surface parking.
- Amenity Zone B "Open Space" as defined by the Zoning Ordinance for use as a fitness
 path with outdoor exercise stations. A portion of Amenity Zone B is a regulated wetland
 area, will be restricted from development, and will remain in an "Undeveloped State" as
 defined in the Zoning Ordinance.
- Amenity Zone C Is a regulated wetland area, will be restricted from development, and shall remain in an "Undeveloped State" as defined in the Zoning Ordinance.

Amenity Zone A shall be developed as part of the first Phase. Amenity Zone B shall be developed as part of the second Phase, except for the regulated wetland area within Amenity Zone B which shall remain undeveloped. Amenity Zone C shall not be developed because it is a regulated wetland area.

DEVELOPMENT PLAN - AMENITY ZONES







Long Lake & Crooks Concept Development Plan

DEVELOPMENT GUIDELINES

The applicant proposes the following development parameters:

District	General Uses	Max Square	Min #	Min	Max #	Max
		Footage	Floors	Building Height	Floors	Building Height
Development Area 1	Residential	350,000 s.f	3	40'	7	90'
Development Area 2	Office / Parking Structure	500,000 s.f	4	60'	10	150'
Development Area 3	Office / residential / retail /	350,000 s.f	4	60'	10	150'
	parking structures					
Development Area 4	Hotel/residential	105,000 s.f	3	40'	7	90'
Retail / Restaurant Areas	Retail/restaurant	18,000 per	1	17.5′	2	35'
		building				

Minimum setbacks:

District	Front	Side	Rear
	Setback	Setbacks	Setbacks
Development Area 1	10'	20'	30'
Development Area 2	10'	20'	30'
Development Area 3	10'	20'	30'
Development Area 4	10'	20'	30'
Retail / Restaurant Areas	10'	20'	30'

CONCEPT DEVELOPMENT PLAN - MASSING

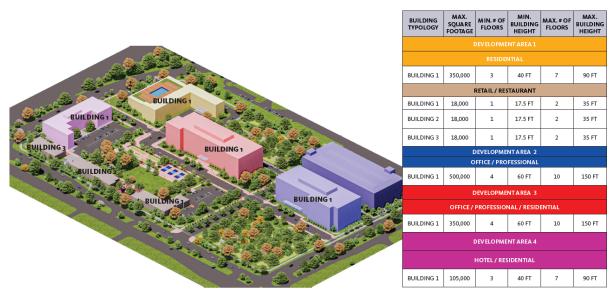


Illustration is a representation of a potential future maximum buildout based on buildout of each Development Area.



Long Lake & Crooks Concept Development Plan

November 28, 2022 A-13

USES

The applicant notes the allowance for all uses (permitted and special) in the OM - Office Mixed Use District, the O – Office District, or the GB-General Business District. There are uses in those districts which the Planning Commission should consider if they are appropriate. Permitted or special uses listed in the OM, O, and GB districts that the Planning Commission may want to discuss:

- Primary and secondary schools
- Convalescent center
- Post-secondary school
- Bus/transit passenger dispatching center
- Hospital
- Day Care and preschool
- Golf course
- Swimming pool club
- Fast food restaurant
- Restaurant drive-in
- Drive-through
- Retail, large format
- Shopping center
- Building and lumber supply
- Garden centers/nursery
- Commercial greenhouse
- Outdoor commercial recreation
- Dry cleaners/laundry
- Open air business , as a principal use
- Private clubs, fraternal organization, and lodge halls

- Commercial kennels
- Adult use business
- Mortuary/funeral home
- Prototype or experimental product design
- Basic research, design, pilot or experimental product development
- Laboratory
- Mini warehouse and self-storage
- Vehicle, recreational vehicles sales
- Vehicle repair station
- Vehicle fueling/multiuse station
- Oil change facility
- Vehicle washes
- Vehicle auctions
- Antique and classic vehicle sales
- Ambulance facilities
- Vehicle rental
- Commercial wind energy conversion system
- Wireless communication facility (Tower)

Based on the adopted City Master Plan goals and intent of the area and the applicant's vision for the site, there are uses in the OM, O, and GB districts that are not consistent with the intent of the area and not appropriate for future development of the site.

Items to be Addressed: Planning Commission should consider if certain listed uses are not appropriate.

PHASING

The applicant seeks flexibility in phasing, however, Section 2.3 (page 5) of the PUD Agreement notes a Phasing Plan. The applicant should clarify if they are proposing a set phasing schedule, for example Development Area 1 is the first phase, or if they seek greater phasing flexibility.

Items to be Addressed: Applicant shall clarify phasing and Planning Commission should consider proposed phasing.

TRAFFIC IMPACT STUDY

The applicant has submitted Traffic Impact Study, which will be reviewed by the OHM, the Road Commission, and MDOT. The traffic study identifies significant traffic impacts as a result of the development and identifies roadway improvements based on full build out. The applicant has provided a table of proposed associated roadway improvements.

MASTER PLAN

This site is located in the North Troy Special Area Plan. Located at the intersection of two main arterial roads with a direct access ramp to I-75, North strategically Trov is located to serve as a major employment hub Oakland County. North Troy currently is home to over 5,000 primarily daytime employees; in addition, there are over 2,000 households within one mile of the area. However, the area is dominated by single-use buildings office limited interconnections, and few amenities for these workers and nearby



residents. Preparing North Troy for the next generation of growth will require a broader and more creative real estate strategy that will tap into regional trends and market opportunities in order to create a more vibrant, attractive, and flexible work environment. A compatible and vibrant mix of uses will create a life and vibrancy, provide interconnections and a relationship with the adjacent neighborhoods, reduce automobile trips, and enhance walkability by providing destinations.

Priority 1 of the Special Area Plan was to provide a compatible and vibrant mix of uses. Applicable strategies to fulfill this priority includes:

- Promote service infill through property repurposing;
- Promote residential infill through property repurposing;

Long Lake – Crooks PUD Concept Review January 16, 2023

- Develop and strengthen the core; and
- Create a community gathering space.

Priority 2 is to improve multi-modal circulation and safety. Applicable strategies to fulfill this priority includes:

- Introduce pedestrian mid-block crossing; and
- Establish consistent landscape buffer and setbacks.

Priority 3 is to implement tactical placemaking. Applicable strategies to fulfill this priority includes:

- Create an identity through gateways and wayfinding;
- Facilitate health and wellness initiatives; and
- Encourage creative programming.

This specific site was identified in the Master Plan as an opportunity to define North Troy:

Building off the surrounding employment base and the highly trafficked Northfield Point Marketplace, the vacant parcel on the northwest corner of Long Lake and Crooks Road offers an opportunity to establish a core for North Troy. This core will provide a compatible mix of uses and should be the starting place of other strategies in the Plan, including pedestrian circulation improvements, landscaping, wayfinding, and creative programming. At the heart of the core is the community gathering space. -Page 192

Specifically for this site, the Master Plan identified residential infill, service infill, and a community gathering space. A vibrant mix of uses is supported by the Master Plan. However, there are some elements that the applicant should consider strengthening consistency with the Master Plan:

- 1. Work with City to establish midblock crossing across Crooks and Corporate Drive.
- 2. Clarify if central gathering areas are open for public activities and use.
- 3. Develop pilot gateway features and wayfinding signage to be implemented in rest of North Troy.

PUD AGREEMENT

The applicant has submitted a PUD Agreement, which is being reviewed by the City Attorneys office.

STANDARDS

When reviewing the PUD, the Planning Commission shall consider the following standards as set forth in Section 11.03:

1. A mixture of land uses that would otherwise not be permitted without the use of the PUD provided that other objectives of this Article are also met.

- 2. A public improvement or public facility (e.g. recreational, transportation, safety and security) which will enhance, add to or replace those provided by public entities, thereby furthering the public health, safety and welfare.
- A recognizable and material benefit to the ultimate users of the project and to the community, where such benefit would otherwise be infeasible or unlikely to be achieved absent these regulations.
- 4. Long-term protection and preservation of natural resources, natural features, and historic and cultural resources, of a significant quantity and/or quality in need of protection or preservation, and which would otherwise be unfeasible or unlikely to be achieved absent these regulations.
- A compatible mixture of open space, landscaped areas, and/or pedestrian amenities.
- 6. Appropriate land use transitions between the PUD and surrounding properties.
- 7. Design features and techniques, such as green building and low impact design, which will promote and encourage energy conservation and sustainable development.
- 8. Innovative and creative site and building designs, solutions and materials.
- 9. The desirable qualities of a dynamic urban environment that is compact, designed to human scale, and exhibits contextual integration of buildings and city spaces.
- 10. The PUD will reasonably mitigate impacts to the transportation system and enhance non-motorized facilities and amenities.
- 11. For the appropriate assembly, use, redevelopment, replacement and/or improvement of existing sites that are occupied by obsolete uses and/or structures.
- 12. A complementary variety of housing types that is in harmony with adjacent uses.
- 13. A reduction of the impact of a non-conformity or removal of an obsolete building or structure.
- 14. A development consistent with and meeting the intent of this Article, which will promote the intent of the Master Plan or the intent of any applicable corridor or sub-area plans. If conditions have changed since the Plan, or any applicable corridor or sub-area plans were adopted, the uses shall be consistent with recent development trends in the area.
- 15. Includes all necessary information and specifications with respect to structures, heights, setbacks, density, parking, circulation, landscaping, amenities and other design and layout features, exhibiting a due regard for the relationship of the development to the surrounding properties and uses thereon, as well as to the relationship between the various elements within the proposed Planned Unit Development. In determining whether these relationships have been appropriately addressed, consideration shall be given to the following:
 - i. The bulk, placement, and materials of construction of the proposed structures and other site improvements.
 - ii. The location and screening of vehicular circulation and parking areas in relation to surrounding properties and the other elements of the development.
 - iii. The location and screening of outdoor storage, loading areas, outdoor activity or work areas, and mechanical equipment.
 - iv. The hours of operation of the proposed uses.
 - v. The location, amount, type and intensity of landscaping, and other site amenities.
- 16. Parking shall be provided in order to properly serve the total range of uses within the Planned Unit Development. The sharing of parking among the various uses within a Planned Unit Development may be permitted. The applicant shall provide justification to the satisfaction of the City that the shared parking proposed is sufficient for the development and will not impair the functioning of the development, and will not have a negative effect on traffic flow within the development and/or on properties adjacent to the development.
- 17. Innovative methods of stormwater management that enhance water quality shall be considered in the design of the stormwater system.

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18. The proposed Planned Unit Development shall be in compliance with all applicable Federal, State and local laws and ordinances, and shall coordinate with existing public facilities.

The Planning Commission should review the application considering the standards.

BENEFITS

The applicant has noted the following benefits:

- Horizontal mixed-use development consisted with Master Plan
- Development of an undeveloped and prominent site
- Outdoor plazas
- Outdoor dining areas
- Pedestrian circulation paths and activities around site
- Public art

The Planning Commission should consider the noted benefits.

SUMMARY

The Planning Commission should deliberate:

- 1. The proposed development guidelines (height/setbacks, etc);
- 2. The proposed allowable and special uses;
- 3. The proposed phasing;
- 4. If the proposed benefits are commensurate with the requested relief/development flexibility; and
- 5. If the PUD standards have been met.

CARLISLE/WORTMAN ASSOC., INC. Benjamin R. Carlisle, LEED AP, AICP

City of Troy Planned Unit Development Concept Development Plan (CDP) Application And Application To Amend The Zoning District Map

Long Lake and Crooks Masterplan DevelopmentRe-Issuance: 11.28.22

CITY OF TROY PLANNED UNIT DEVELOPMENT CONCEPT DEVELOPMENT PLAN (CDP) APPLICATION AND APPLICATION TO AMEND THE ZONING DISTRICT MAP

CITY OF TROY PLANNING DEPARTMENT

TO THIS REQUEST FOR PLANNED UNIT DEVELOPMENT.

500 W. BIG BEAVER TROY, MICHIGAN 48084 PHONE: 248-524-3364

E-MAIL: planning@troymi.gov



CONCEPT DEVELOPMENT PLAN FEE \$3,000.00

\$5,000.00

PRIOR TO THE SUBMISSION OF AN APPLICATION-FOR APPROVAL OF A PLANNED UNIT DEVELOPMENT, THE APPLICANT SHALL HOLD A PRE-APPLICATION MEETING WITH THE PLANNING DEPARTMENT OF THE CITY AND ANY CITY STAFF AND OUTSIDE CONSULTANTS AS DEEMED APPROPRIATE BY THE CITY.

DA	ATE OF PRE-APPLICATION MEETING: September 25, 2020			
	EGULAR MEETINGS OF THE CITY PLANNING COMMISSION ARE DNTH AT 7:00 P.M. AT CITY HALL.	HELD ON THE SECOND AND FOURTH TUESDAYS OF EACH		
1.	NAME OF THE PROPOSED DEVELOPMENT: Long Lake	e & Crooks Masterplan Development		
2.	LOCATION OF THE SUBJECT PROPERTY: Northwest corner - Long Lake & Crooks			
3.	ZONING CLASSIFICATION(S) OF THE SUBJECT PROPER	Current Zoning - Office		
4.	TAX IDENTIFICATION NUMBER(S) OF SUBJECT PROPER	RTY:		
5.	APPLICANT:	PROPERTY OWNER:		
	NAME Chris Beck	NAME Tony Antone		
	COMPANY Gensler	COMPANY Long Lake Crooks Development Associates		
		ADDRESS 39400 Woodward Ave, Suite 250		
	CITY Detroit STATE MI ZIP 48226			
	TELEPHONE313.496.8966	TELEPHONE 248.644.7600		
	E-MAILchris_beck@gensler.com	E-MAIL tantone@Kojaian.com		
6.	THE APPLICANT BEARS THE FOLLOWING RELATIONSH Owner's Architect	IP TO THE OWNER OF THE SUBJECT PROPERTY:		
7.	ATTACHED HERETO IS A SIGNED STATEMENT BY TH AUTHORITY TO EXECUTE A BINDING ACRES AT COMMENT OF THE PROPERTY OF			
8.	SIGNATURE OF APPLICANT	DATE 11.18.20		
9.	SIGNATURE OF PROPERTY OWNER	1 Cabo DATE 11 117 /2020		
	BY THIS SIGNATURE, THE PROPERTY OWNER AUTHORIZES PLACE	MENT OF A SIGN ON THE PROPERTY TO INFORM THE PUBLIC AS		

Rev. Aug 2018

PLANNED UNIT DEVELOPMENT CONCEPT DEVELOPMENT PLAN (CDP) PRE-APPLICATION MEETING CHECKLIST

THE APPLICANT SHALL PROVIDE A MINIMUM OF THREE (3) COPIES OF THE FOLLOWING ITEMS, PLUS ONE (1) CD CONTAINING AN ELECTRONIC VERSION OF THE APPLICATION, TO THE PLANNING DEPARTMENT AT OR BEFORE THE PRE-APPLICATION MEETING. SEE SECTION 11.06(A).

- A SKETCH PLAN OF THE PROPOSED PLANNED UNIT DEVELOPMENT
- LEGAL DESCRIPTION OF THE PROPERTY, SCALE DRAWING AND THE TOTAL NUMBER OF ACRES IN THE PROJECT
- TOPOGRAPHICAL MAP OF THE PROJECT SITE
- A STATEMENT OF ALL PROPOSED USES IN THE PROJECT.
- THE KNOWN DEVIATIONS SOUGHT FROM THE ORDINANCE REGULATIONS OTHERWISE APPLICABLE
- THE NUMBER OF ACRES TO BE PRESERVED AS OPEN OR RECREATIONAL SPACE AND THE INTENDED USES OF SUCH SPACE
- ALL KNOWN NATURAL RESOURCES, NATURAL FEATURES, HISTORIC RESOURCES AND HISTORIC FEATURES; WHICH ARE TO BE PRESERVED
- A LISTING AND SPECIFICATION OF ALL SITE DEVELOPMENT CONSTRAINTS

PLANNED UNIT DEVELOPMENT CONCEPT DEVELOPMENT PLAN (CDP) CHECKLIST

THE FOLLOWING INFORMATION AND MATERIALS ARE NECESSARY FOR SUBMISSION. FOR A DETAILED DESCRIPTION OF REQUIRED ITEMS, SEE SECTION 11.06(C) OF THE ZONING ORDINANCE.

REQUIRED FEE
ONE (1) CD CONTAINING AN ELECTRONIC VERSION OF THE APPLICATION AND ONE (1) COPY OF THE DRAFT DEVELOPMENT AGREEMENT (PDF Format)
application shall include TWO (2) hard copies of the following information and materials, which shall be in an format together with a narrative explanation.
Date(s) and location of all meetings with representatives of adjoining neighborhoods, minutes and attendance record(s) of such meeting(s).
Certified boundary survey including legal description of the property, scale drawing and the total number of acres in the project.
Development concept: A summary explanation of the development concept shall describe the project and explain how the project will meet the intent of the PUD option as set forth in Section 11.01 and the criteria for consideration as a PUD as set forth in Section 11.03 hereof, as those sections reasonably apply to the site.
Density: The maximum density of the overall project and the maximum density for each proposed use and phase.
Road system: A general description of the road system and circulation pattern; the location of roads, entrances, exits and pedestrian walkways; a statement whether roads are intended to be public or private. Efforts shall be made to ensure that multiple transportation modes are safely and effectively accommodated in an effort to provide alternate modes of access and alleviate vehicle traffic congestion particularly as it pertains to the improvements along major roads.
<i>Utilities:</i> A general description and location of both on-site and off-site utilities including proposed water, sanitary sewer, storm sewer systems and utility lines; a general indication of the size and location of stormwater detention and retention ponds, and a map and text showing off-site utilities, existing and proposed, which will provide services to the project.
Open space/common areas: A general description of proposed open space and common areas; the total area of open space; the total area of open space in each proposed phase; the proposed uses of open space and common areas.
Uses: A list of all proposed uses; the location, type and land area to be devoted to each use, both overall and in each phase; a demonstration that all of the proposed uses are permitted under this Article.
Development guidelines: A plan of the site organization, including typical setback and lot dimensions; the minimum lot sizes for each use; typical minimum and maximum building height and size; massing models; conceptual building design; and the general character and arrangement of parking; fencing; lighting; berming; and building materials.
Parking and Traffic: A study of the parking requirements and needs; a traffic impact study and analysis.
Landscaping: A general landscaping plan; a landscape plan for entrances; a landscape plan for overall property perimeters; any theme/streetscape design; any proposed irrigation.
Natural resources and features: Floodway/floodplain locations and elevations; wetlands and watercourses; woodlands; location and description of other natural resources and natural features.

PLANNED UNIT DEVELOPMENT **CONCEPT DEVELOPMENT PLAN (CDP) CHECKLIST** (page 2)

Phasing information: The approximate location, area and boundaries of each phase; the proposed sequence of

development, including phasing areas and improvements; and the projected timing for commencement and completion of each phase.
Public services and facilities: A description of the anticipated demand to be generated by the development for public sewer, water, off-site roads, schools, solid waste disposal, off-site drainage, police and fire; a description of the sufficiency of each service and facility to accommodate such demands; the anticipated means by which any insufficient services and facilities will be addressed and provided.
Historical resources and structures: Their location, description and proposed preservation plan.
Site topography.
Signage: General character and location of entrance and internal road system signage; project identification signage; and temporary or permanent signage proposed for any other locations.
Amenities.
Zoning classification: Existing zoning classifications on and surrounding the site.
Specification of deviations: A specification of all deviations proposed from the regulations which would otherwise be applicable to the underlying zoning and to the proposed uses, which are proposed and sought for any phase or

Community impact statement: A community impact statement, which shall provide an assessment of the developmental, ecological, social, economic and physical impacts of the project on the natural environmental and physical improvements on and surrounding the development site. Information required for compliance with other ordinance provisions need not be duplicated in the community impact statement.

component of the Planned Unit Development; the safeguards, features and/or planning mechanisms proposed to achieve the objectives intended to be accomplished by any regulation from which a deviation is being sought.

ALL HARD COPY DRAWINGS SHALL BE FOLDED, STAPLED, SEALED AND SIGNED BY A STATE OF MICHIGAN PROFESSIONAL ENGINEER, REGISTERED ARCHITECT, REGISTERED LANDSCAPE ARCHITECT, OR PROFESSIONAL COMMUNITY PLANNER

PLANNING COMMISSION AGENDAS ARE ELECTRONIC

PLANNED UNIT DEVELOPMENT CONCEPT DEVELOPMENT PLAN (CDP) CHECKLIST

Neighborhood meeting:

Communication to immediate neighbors of the property was issued March 11, 2021 to solicit neighborhood comments regarding the proposed masterplan. The communication offered neighbors the opportunity to participate in either a virtual zoom meeting, or comment individually via written response. Neighbors included those to the west, along Corporate Drive, to the south, along Long Lake, and to the east, across Crooks. The developer of this proposed property owns the immediate property to the north. The masterplan graphic, along with contact information for responses to be submitted were included in the mailed communication to each of the neighbors.

No responses were received from any of the neighbors and as such no virtual meeting occurred.

See following page for copy of letter submitted.

Fax 313.965.8060

Gensler

03.11.21

Dear Mr. Dugan:

Re: 1175 W. Long Lake Rd

Troy, Michigan

You are being sent this letter as the owner of the above referenced property based on a review of publicly available information. Long Lake Crooks Development Associates, L.L.C. (the "Developer") intends to develop the vacant 24.08 property located at the northwest corner of the intersection of Crooks Road and Long Lake Road. It is planned to be a mixed-use development.

The Developer is required to notify nearby landowners of the proposed development and ask for comments. A proposed concept masterplan is enclosed for your reference. If you wish to verbally comment, please email Chris Beck no later than March 29th, 2021. A virtual Zoom meeting will be set up for you to provide verbal comments. Alternatively, you may also provide written comments to the undersigned no later than April 5th, 2021 by sending an email to chris_beck@gensler.com.

Before this development will occur, it must be thoroughly reviewed and approved by the City of Troy. The City will likely be in contact with you to advise you of the time and place of any public hearing that may be required for this development.

Thank you.

Chris Beck, AIA, LEED-AP BD&C Senior Associate

Gensler

Attachment: Crooks & Long Lake Masterplan

C: Brent Savidant (via email)

CROOKS & LONG LAKE // MASTER PLAN



LONG LAKE & CROOKS CONCEPT DEVELOPMENT PLAN

KOJAIAN + GENSLER + PEA GROUP + FLEIS & VANDENBRINK | NOVEMBER 28, 2022 | CDP

Planned Unit Development – Concept Development (CDP) Submittal

Project: Long Lake & Crooks Masterplan Development Original Submission Date: April 22, 2022 Revised Submission Date: November 28, 2022

City of Troy, Planning Department City of Troy, 500 W. Big Beaver Rd., Troy, MI 48084



Kojaian
Long Lake Crooks Development Associates, LLC
tantone@kojaian.com
39400 Woodward Avenue, Suite 250
Bloomfield Hills, MI 48304
(248) 644-7600
Contact: Anthony G. Antone, Vice President

Gensler

Gensler 150 West Jefferson, Suite 1700 Detroit, MI 48226 (313) 496-8966 Contact: Chris Beck, Project Manager



Fleis & Vandenbrink 27725 Stansbury Blvd., Suite 195 Farmington Hills, MI 48334 (248) 342-5786 Contact: Julie Kroll, PE, PTOE

PEA GROUP

PEA Group 2430 Rochester Court, Suite 100 Troy, MI 48083 (248) 528-7369 Contact: James Butler, PE



Dawda, Mann, Mulcahy, & Sadler 39533 Woodward, Suite 200 Bloomfield Hills, MI 48304 (248) 642-4248 Contact: Tyler D. Tennent

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A. Certified Boundary Survey – Refer to Appendix: Sheet C-1

Legal Description of Property

A parcel of land in a part of the southeast quarter of Section 8, T.02N., R.11 E., City of Troy, County of Oakland, State of Michigan described as follows:

Commencing at the Southeast corner of Section 8, T.02N., R.11 E., City of Troy, County of Oakland, State of Michigan, thence South 87 degrees 15 minutes 31 seconds West 130.00 feet; thence North 02 degrees 37 minutes 54 seconds West 100.00 feet to the north line of Long Lake Road (width varies) and the POINT OF BEGINNING: thence along the said north line the following three (3) courses and distances 1) South 87 degrees 15 minutes 31 seconds West 894. 70 feet; 2) North 02 degrees 30 minutes 26 seconds West 10.00 feet; 3) South 87 degrees 15 minutes 31 seconds West 364.00 feet; thence North 47 degrees 37 minutes 28 Seconds West 42.26 feet to the easterly line of Corporate Drive (120' wide); thence North 02 degrees 30 minutes 26 seconds West 424.81 feet to a point of curvature; thence 353.35 feet along a curve to right, said curve having a radius 710.00 feet, a central angle of 28 degrees 30 minutes 52 seconds, and a chord that bears North 11 degrees 45 minutes 00 seconds East 349.71 feet; thence North 87 degrees 15 minutes 31 seconds East 1240. 77 feet to the west line of Crooks Road (width varies); thence along said west line the following three (3) courses and distances: 1) South 02 degrees 37 minutes 54 seconds East 463.36 feet; 2) South 87 degrees 22 minutes 06 seconds West 10.00 feet; 3) South 02 degrees 37 minutes 54 seconds East 310.00 feet; thence South 42 degrees 18 minutes 48 seconds West 42.47 feet to the POINT OF BEGINNING.

Parcel 20-08-477-001 Vacant Land

B. Development Concept:

Long Lake Crooks Development Associates, L.L.C. (the "Developer") proposes a mixed-use development within the approximate 24.08-acre site bound by Long Lake Road to the south, Crooks Road to the east and Corporate Drive to the west (the "Site"). In concept, this development is envisioned to offer various needed services to the Long Lake corridor and surrounding community and create a development of mixed horizontal and vertical forms. The Site has the potential to be comprised of workplace / medical office space, retail, commercial, residential, and hospitality uses, with the desired overall potential of maximizing the developmental area and providing interconnectivity for vehicles and pedestrians.

The overall phasing of the development will be dependent on the market and the Developer's success and cadence in acquiring prospective users. Final Site configurations will be contingent on such cadence and specific user requirements, both of which will influence final building massing, location, and overall Site character. Final development solutions for each use will be individually issued for approval as part of the preliminary and final development approval process during future timeframes.

The basis of the documentation included within this Concept Development Plan and the PUD application is to demonstrate the desired intent of the overall Site development over a period of time. It is conceptual in nature, however, demonstrates a thoughtful and desired solution to the Site for which a planned unit development zoning status is needed. The descriptions and illustrations within this application form the basis of the development concept.

Development Areas:

The Concept Development Plan envisions several Site components identified as development areas (refer to appendix sheet A-6). Although sequentially numbered, these development areas are not intended to reflect a specific order of cadence, but to identify separate areas within the overall Site that will be developed through a phased approach.

<u>Development Area 1</u>: A residential component is intended for the northwest corner of the Site that will foster a permanent population and enhance further development of the remaining development areas. This residential component will support the increasing demands of the City's housing needs and satisfy a key component in the intended live / work / play environment the Site is focused to achieve.

<u>Development Area 2</u>: The largest development area of the Site is proposed for workplace / medical office and is generally intended to be the anchor development within the overall Site. This development area will support the functional needs of prospective users of the Site and/or nearby residents, bringing significant growth opportunities for the City and further energizing the area. If developed for either single anchor or multi-tenant configurations, the buildings in this development area will support the flexible workplace environment tenants seek within Class-A office/flex-tech space.

<u>Development Area 3</u>: This development area reflects an additional opportunity for added workplace, office, retail, and residential use. Centered within the Site, this development area can act as either a standalone anchor development or as an expansion of use based on the success of either Development Areas 1 & 2. Supporting parking will be included within the development footprint.

<u>Development Area 4</u>: The development area is for lodging with an intended inclusion of an anchor hotel. The building will be designed so that it is easily convertible to residential, (apartment or condominium), use if desired in the future. Currently located on the southwestern corner of the Site, the final location of the hotel may adjust along Corporate Drive dependent on the final retail / restaurant configuration in other areas of the Site. As with the retail and residential components, the hotel is deemed as an asset to both the immediate Site as well as the broader community.

The remaining areas along Long Lake, as illustrated on the Concept Development Plan, offer retail / restaurant opportunities. These intended areas provide destinations for the surrounding community while also supporting other developments on the Site. They are smaller in scale and are intended to energize the Long Lake and Corporate Drive frontage for both vehicular and pedestrian foot traffic by becoming favorite 'go-to' locations. They are not considered a separate development area, but intended to be built either as part of any phase of the development or separately after 50% completion of the first phase.

A combination of surface and structured parking will support the development of the Site based on the expected development uses. Surface parking will support the needs of the short-term visitors of office, retail, and hotel uses, while structured parking, situated away from the high visibility of Long Lake and Crooks will support the daily occupants of the larger office and mixed-use buildings. Each development area will meet all parking requirements as mandated for its use within the City guidelines.

The Developer requests the flexibility to choose the locations of each permitted use within a development area, the sequence of development, and the specific features and boundaries of

each area depicted in the Concept Development Plan. Market forces and user requirements are constantly changing. As a result, the PUD zoning concept, together with an appropriate Development Agreement, will facilitate this flexibility and encourage development without adversely impacting the preliminary and final development plan approval processes required by the City under the Zoning Ordinance.

All development areas shall be integrated through design elements including but not limited to architecture, materials, landscaping, pedestrian connectivity, street connectivity, and shared parking and in accordance to all City requirements.

Landscaping shall meet or exceed required landscaping for similar projects as per Chapter 39, Section 13.02.

Temporary undeveloped portions of the Site shall be appropriately maintained including grass cutting, snow removal, keeping the Site free of refuse, etc.

Amenity Areas:

Various amenities will be required as part of the development areas as shown in the Concept Development Plan – Amenity Zones (refer to appendix sheet A-7). The overall configuration of amenity areas is flexible however they have been purposefully located and sized based on proximity and use of each development area as well as connectivity and access to each other and the local community. Overall, amenity areas account for approximately 135,000 SF, (3 acres), of the total Site area, or 12%.

The amenity areas as illustrated include the following:

Amenity Area 1A: Open green spaces for flexible use, community seating areas / built shelters and fire pits.

Amenity Area 1B: Dog park, walking path.

Amenity Area 2A: Landscape / public art - sculpture garden, walking paths and seating.

Amenity Area 2B: Fitness path, pickle ball courts.

Amenity Area 3: Open green space, bocce ball, food truck staging area.

Overall: Connecting pathways/sidewalks allow both internal and public pedestrian access and engagement across all amenity areas. Continuity of landscape, vegetation and site furnishings will provide a cohesive and connected aesthetic across all parts of the Site.

Natural Areas:

Approximately 3.6 acres of natural wetland will be preserved on the Site, located within two distinct areas, <u>Natural Area 1</u> and <u>Natural Area 2</u>, as illustrated in the Concept Development Plan (refer to appendix sheet A-7). No development will occur within the natural areas. Viewed as part of the overall Site amenities, the wetlands further enhance the natural landscape and create buffers between development areas that support a more open site environment and will helping to minimize the appearance of overall densification. Vegetation within these areas will remain

untouched, except as may be required by the permitting authorities or to facilitate opportunities to clear low lying scrub vegetation for visual access as well as physical approach along the wetland boundaries.

Amenity areas have strategically been placed adjacent to these natural wetlands to further increase the openness and outdoor offerings to users of the Site and public alike.

C. Location Map - Refer to Appendix: Sheet C-0

D. Land Use Map – Refer to Appendix: Sheet A-1

Properties adjacent to site are: Office, Retail/Restaurant and Cemetery

E. Certified Boundary Survey – Refer to Appendix: Sheet C-1 Topographic Survey

F. Density Analysis:

	Zoning	Proposed
District	Max. % of Building Coverage	
OM - Office Mixed Use	40%	37%
UR – Urban Residential	50%	N/A
GB – General Business	N/A	10%
Overall Site	N/A	27%

G. Road/Circulation System

- Private Roads within Site
- Entrances
 - Crooks Road Boulevard
 - Main Entry with deceleration lane / Exit
 - Long Lake Road Boulevard
 - Main Entry with deceleration lane / Exit
 - Retail / Restaurant entry with deceleration lane / Exit
 - Corporate Drive Boulevard
 - Main Entry with deceleration lane / Exit
 - Hotel entry with deceleration lane / Exit
- Circulation Pattern
 - o Main routes are East to West from Crooks Road to Corporate Drive
 - Intersecting route from Long Lake Road
- Pedestrian walkways throughout the Site to provide walkability and easy access to amenities

H. Utilities - Refer to Appendix: Sheet C-3 Conceptual Utility Plan

- Gas Connect to existing from Crooks Road
- Electric Connect to existing from Long Lake Road
- Water / Fire
 - Connect to existing watermain from Corporate Drive
 - Connect to existing watermain from Crooks Road
- Sanitary Sewer Connect to existing from Long Lake Road
- Communications Connect to existing from Long Lake Road
- Storm
 - o Connect to the existing structure at the corner of Crooks Road and Long Lake
 - Underground detention area in parking lot near Detention Pond
 - o Detention Area will feature a natural pond with walking path and landscaping

I. Open Space/Common Areas:

The Site is currently vacant and not accessible to the public. The Concept Development Plan envisions that a portion of the Site will provide a park like setting and access to the pedestrian boulevards and retail/restaurants, which can be used at the leisure of residents and visitors. This interconnectivity to the Site features and outdoor amenities is a recognizable public benefit.

Open space is incorporated to the greatest extent possible while balancing building, parking and circulation needs within the boundaries of the Site. Open, vegetated areas are located to minimize large scale hardscape zones. Public access is focused primarily to the southern end of the Site, along the Long Lake corridor.

Continuous paved walking paths wrap the development area, connecting open spaces, as well as the incorporation of a potential natural pathways and seating areas.

Native, high quality, vegetation replaces the current low value tree stock and is intended to be incorporated throughout the development areas within open/common spaces, softening the more formal approach of the buildings and balancing human scale to surrounding built environment.

Refer to Appendix: Sheet C-2.0 and Sheet A-7 for Conceptual Site Plan, natural area, and site amenity diagramming.

J. Uses: Refer to Appendix: Sheet A-6, A-8, A-9, A-10, A-11

- Lodging / Residential
- Retail / Restaurant
- Office / Medical / Residential
- Parking Surface / Deck

The proposed uses are to be a mixture of commercial, retail, residential, and office, (live / work / play) with both structured and surface parking. All uses are subject to Preliminary Development Plan Approval and described as follows:

<u>Development Area 1</u>: Residential uses permitted as of right or requiring special approval, and their accessory uses, consistent with such uses in the UR – Urban Residential District and all associated surface parking.

<u>Development Area 2</u>: Office uses permitted as of right or requiring special approval, and their accessory uses, consistent with such uses in the OM - Office Mixed Use District, the O - Office District, or the GB-General Business District, as referenced in the Zoning Ordinance, and a multistory parking structure and surface parking features.

<u>Development Area 3</u>: Residential uses permitted as of right or requiring special approval, and their accessory uses, consistent such uses in the UR – Urban Residential District as referenced in the Zoning Ordinance and all associated surface parking; Office uses permitted as of right or requiring special approval, and their accessory uses, consistent with such uses in the OM - Office Mixed Use District, the O - Office District, or the GB-General Business District, as referenced in the Zoning Ordinance; "Restaurant" and/ or "Retail Business or Retail Sales" uses as defined by the Zoning Ordinance; Conference, meeting, and banquet facility uses permitted as of right or requiring special approval, and their accessory uses consistent with such uses the GB - General Business District in the Zoning Ordinance; and, all associated surface parking.

<u>Development Area 4</u>: Lodging or extended stay facility uses permitted as of right or requiring special approval, and their accessory uses, consistent with such uses in the GB – General Business District identified in the Zoning Ordinance; and, Residential uses permitted as of right or requiring special approval, and their accessory uses, consistent such uses in the UR – Urban Residential District as referenced in the Zoning Ordinance and all associated surface parking.

Restaurant/Retail Areas: "Restaurant" and/ or "Retail Business or Retail Sales" uses as defined by the Zoning Ordinance, and their accessory uses, and all associated surface parking.

Amenity Area 1A: "Open Space" as defined by the Zoning Ordinance for use as an open field activity area.

Amenity Area 1B: "Open Space" as defined by the Zoning Ordinance for use as a dog park.

Amenity Area 2A: "Open Space" as defined by the Zoning Ordinance for use as a public art or sculpture garden.

<u>Amenity Area 2B</u>: "Open Space" as defined by the Zoning Ordinance for use as a fitness trail and pickle ball courts.

Amenity Area 3: "Open Space" as defined by the Zoning Ordinance for use as a bocce ball court and outdoor seating.

<u>Natural Areas A and B</u>: Restricted from development and shall remain in an "Undeveloped State" as defined in the Zoning Ordinance.

K. Development Guidelines:

DISTRICT	MAX SQUARE FOOTAGE	MIN # FLOORS	MIN BUILDING HEIGHT	MAX # FLOORS	MAX BUILDING HEIGHT
DEVELOPMENT AREA 1	350,000 sf	3	40'	7	90'
DEVELOPMENT AREA 2	500,000 sf	4	60'	10	150'
DEVELOPMENT AREA 3	350,000 sf	4	60'	10	150'
DEVELOPMENT AREA 4	105,000 sf	3	40'	7	90'
RETAIL/RESTAURANT AREAS	18,000 per building	1	17.5'	2	35'

See Sheet A-12 for massing

MINIMUM SETBACKS (measured from perimeter property lines or public rights of way)

DISTRICT	FRONT	SIDE	REAR
	SETBACK	SETBACK	SETBACK
DEVELOPMENT AREA 1	10'	20'	30'
DEVELOPMENT AREA 2	10'	20'	30'
DEVELOPMENT AREA 3	10'	20'	30'
DEVELOPMENT AREA 4	10'	20'	30'
RETAIL/RESTAURANT	10'	20'	30'
AREAS			

L. Traffic Impact Study:

Refer to Appendix: Sheet TR-1 - Traffic Impact Study and Shared Parking Study.

Executive Summary

This report presents the results of a Traffic Impact Study (TIS) for the proposed master plan development located generally in the northeast quadrant of the Long Lake Road and Corporate Drive intersection adjacent to the west side of Crooks Road in Troy, Michigan.

This analysis is based on the conceptual development plan included with the application. This study includes an evaluation of the highest trip generation for the potential uses of the Site, thereby providing a conservative analysis. The land uses included herein were assumed for analysis purposes and do not necessarily reflect the actual proposed land uses on this Site.

The proposed conceptual plan evaluated in this study includes the development of the approximately 24-acre parcel with office, hotel, and retail/restaurant land uses. Parking for the Site was assumed to be provided through a combination of parking structures and surface parking. The Site access will be finalized at the site plan phase of the project, however for this analysis access was assumed via seven (7) site driveways; two (2) on SB Crooks Road, two (2) on Long Lake Road, and three (3) on Corporate Drive. Long Lake Road and Crooks Road are under the jurisdiction of the Road Commission for Oakland County (RCOC), whereas Corporate Drive is under the jurisdiction of the City of Troy.

The scope of this study was developed based on Fleis & VandenBrink's (F&V) knowledge of the study area, understanding of the development program, accepted traffic engineering practice and information published by the Institute of Transportation Engineers (ITE), and pursuant to the requirements of the City of Troy and the RCOC. Additionally, F&V solicited input regarding the scope of work from the City of Troy's engineering consultant (OHM Advisors).

Background Data

Due to the impacts of COVID-19 and the subsequent closures of businesses and schools, current traffic volume data is not representative of "typical" operations. In addition, the on-going construction on I-75 has significant impacts on the traffic volumes throughout the study network. Therefore, the traffic volume data necessary for this study were obtained from multiple sources:

- SCATS volume data was obtained from RCOC at the signalized study intersections within the network for use in this study. The SCATS data utilized for this study was obtained for September 13, 2018, prior to COVID-19 and the I-75 construction impacts.
- F&V subconsultant Traffic Data Collection, Inc. (TDC) performed weekday AM (7:00 AM to 9:00 AM) and PM (4:00 PM to 6:00 PM) peak hour turning movement counts on Wednesday, October 6, 2020 at the unsignalized intersections.

A 0.5% annual background growth rate was applied to the 2018 signalized traffic volumes to calculate the baseline 'existing' 2020 traffic volumes. COIVD-19 adjustment factors were applied at the unsignalized intersections to calculate the baseline 'existing' 2020 traffic volumes. The traffic volumes were then balanced upwards through the study network. 'Dummy nodes' were added at locations to account for sink and source volumes between intersections.

Trip Generation

The number of weekday peak hour (AM and PM) and daily vehicle trips that would be generated by the proposed development was forecast based on data published by ITE in the *Trip Generation Manual*, 10th Edition. The site trip generation forecast is summarized in **Table 1**. The proposed trip generation included in this analysis was reviewed with the City Traffic Consultant (OHM) prior to use in the study. *Note: Internal trip capture and pass-by trip reductions were not included in this study to provide a conservative analysis*.

Table E1: Trip Generation Summary

Land Use	ITE Code Amount	Units	Average Daily Traffic	AM Peak Hour (vph)			PM Peak Hour (vph)			
		Amount	Ullits	(vpd)	ln	Out	Total	In	Out	Total
High Turnover (Sit-down) Restaurant	932	54,000	SF	6,058	295	242	537	327	201	528
Hotel	310	308	Rooms	3,050	88	61	149	105	100	205
Medical-Dental Office Building 720 1,000,000		GFA SF	38,332	1,353	381	1,734	950	2,442	3,392	
Total Trips				47,440	1,736	684	2,420	1,382	2,743	4,125

Site Trip Distribution

The site access for this analysis was assumed via seven (7) driveways: three (3) on Corporate Drive, two (2) on Long Lake Road, and two (2) on SB Crooks Road. The vehicular trips that would be generated by the proposed development were assigned to the study roads based on the proposed site access plan, the existing peak hour traffic patterns on the adjacent roadway network, and the methodologies published by ITE. The adjacent street traffic volumes were used to develop the trip distribution. In order to determine the projected site traffic distribution, it was assumed that the existing adjacent street traffic volumes in the AM are home-to-work based trips,

and in the PM are work-to-home based trips. Therefore, the trip distribution assumes trips are coming into the study network and entering the development for work in the AM peak hour, then leaving work and exiting the network towards home in the PM peak hour. The ITE trip distribution methodology assumes that new trips will return to their direction of origin. The site trip distribution used in the analysis is summarized in **Table E2**.

Table E2: Site Trip Distribution

From/To	Via	AM	PM
North	Crooks Road	28%	30%
South	Crooks Road	14%	19%
East	Long Lake Road	18%	17%
East	I-75 Ramp	28%	18%
West Long Lake Road		12%	16%
	Total	100%	100%

Conclusions

The conclusions of this TIS are as follows:

Masterplan Development Assumptions

- This analysis is based on the Conceptual Development Plan included with the application. This study includes an evaluation of the highest trip generation associated with the potential uses for this Site. Therefore, the traffic analysis included herein provides a conservative analysis for this development. The land uses included herein were assumed for analysis purposes and do not necessarily reflect the actual proposed land uses on this Site.
 - The proposed conceptual plan evaluated in this study includes the development of the approximately 24-acre parcel with office, hotel, and retail/restaurant land uses.
 - Parking for the Site was assumed to be provided through a combination of parking structures and surface parking.
 - The site access will be finalized at the site plan phase of the project, however for this analysis access was assumed via seven (7) site driveways; two (2) on SB Crooks Road, two (2) on Long Lake Road, and three (3) on Corporate Drive.

Trip Generation Comparison

 A trip generation comparison analysis was performed to show the potential trip generation associated with development permitted under the existing Office (O) zoning. The results of the analysis indicate that the proposed development plan will generate more trips throughout the day and during both peak hours, as compared to a potential development currently permitted by right under the existing zoning.

Existing Conditions

- All approaches and movements at the study intersections currently operate acceptably, at LOS D or better during both peak periods, with the exception of the following:
 - The overall intersection of Crooks Road & Corporate Drive/I-75 Ramp is currently operating at LOS E during the AM peak period with multiple approaches and movements operating at LOS E and LOS F during both AM and PM peak periods.

- The southbound left-turn movement at the intersection of Corporate Drive & New King Drive is currently operating at LOS E during the AM peak period.
- The southbound approach at the intersection of EB Long Lake Road and Investment Drive is currently operating at LOS E during the AM peak hour and LOS F during the PM peak hour.
- The westbound right turn movement at the intersection of WB Long Lake Road & Corporate Drive is currently operating at LOS E during the AM peak hour.
- Review of SimTraffic network simulations indicates long vehicles queues at the signalized intersection of Crooks Road & Corporate Drive/I-75 Ramp during both peak periods. Microsimulations indicate acceptable operations at all other study intersections.

Background Conditions (without the proposed development)

- A conservative annual growth rate of 0.5% per year was applied to the 2020 traffic volumes in order to determine the background 2025 traffic volumes.
- The results of the background conditions analysis show that the study intersections will
 continue to operate in a similar manner to existing conditions, with some increases in the
 delay.

Future Conditions (with the proposed development)

- The results of the future conditions analysis show that, with the addition of the sitegenerated traffic, all study intersection approaches and movements will operate in a manner similar to existing and background conditions, with the exception of the following:
 - The intersection of Crooks Road & Corporate Drive/I-75 Ramp is expected to operate at LOS F during both AM and PM peak periods with significant increases in delay for the westbound approach during the AM peak hour and the eastbound approach during the PM peak hour.
 - The southbound left-turn on Crooks Road at Tower Drive exceeds the available storage length and impacts the upstream operation at the intersection of Crooks Road & Corporate Drive/I-75 Ramp.
 - The northbound left turn movement at NB to SB Crooks Road crossover north of Long Lake Road is expected to operate at LOS E during both AM and PM peak hours.
 - The southbound left turn movement at the SB to NB Crooks Road crossover north of Long Lake Road is expected to operate at LOS F during PM peak hour.
 - The southbound left turn movement at SB to NB Crooks Road crossover south of Long Lake Road is expected to operate at LOS F during the PM peak hour.
 - The eastbound right turn movement on the E. Site Drive at Crooks Road is expected to operate at LOS F during the PM peak hour.
 - The southbound right turn movement at WB Long Lake Road and S.E. Site Dr. is expected to operate at LOS F during the PM peak hour.
 - The westbound left turn movement at the N. Site Drive at the Corporate Drive is expected to operate at LOS E during the PM peak hour.

- The westbound left turn movement at the N.E. Site Drive & SB Crooks Road intersection is expected to operate at LOS F during the PM peak hour.
- The westbound left turn movement at the N.W. Site Drive & Corporate Drive intersection is expected to operate at LOS E and LOS F during the AM and PM peak hour, respectively.
- Review of SimTraffic network simulations indicates long vehicles queues at the signalized intersection of Crooks Road & Corporate Drive/I-75 Ramp during both peak periods. Additionally, long vehicle queues exceeding the available storage length were observed at the Tower Drive Crossover, the SB-to-NB Crossover located north and south of Long Lake Road. Microsimulations indicate acceptable operations at all other study intersections.

Access Management

- The results of the analysis indicate that right-turn deceleration tapers are recommended at the site driveways on Corporate Drive and full-width right-turn lanes are recommended at the proposed site driveway locations on Crooks Road and Long Lake Road.
- There are no site access driveways proposed at this time with this PUD. Therefore, the site access driveways will be further reviewed for access management and auxiliary lanes during the development of site plan(s) for this PUD.

Parking Study

- The proposed PUD includes the addition both surface parking spaces and one or more parking structures.
- A minimum of 4,580 parking spaces is recommended for this Site.

Project Phasing

There is no identifiable phasing plan at this juncture of the proposed development. The
overall development is assumed to be phased over time, based on tenant opportunities
and economic viability. As various areas are developed, a phasing plan will be formulated
in a manner where all parking and building requirements are met throughout each phase.

Recommendations

The recommendations of this TIS are as follows:

Recommended Intersection Improvement (Future 2025)

10 Crooks Road & Corporate Drive / I-75 Ramp

Eliminate the EB and WB left-turn movements and the split phasing

- Operate as median U-turn on east and west approaches.
- Construct new SB to NB crossover south of Corporate Drive.
- Construct additional westbound right-turn lane
- Extend the southbound left-turn storage length (~200 feet)

#30 NB Crooks Road & Tower Drive

Eliminate direct left turns and operate intersection with indirect left-turns.

- Close existing crossover at intersection
- Construct new NB to SB crossover north of Tower Drive

40 NB to SB Crooks Road X/O north of Long Lake Road

Provide signalization

50 SB to NB Crooks Road X/O north of Long Lake Road

Provide dual lane crossover

130 WB to EB Long Lake Road X/O west of Investment Drive

• Provide signalization

#140 SB to NB Crooks Road X/O south of Long Lake Road

- Provide dual lane crossover
- Provide signalization

160 SB Crooks Road & E. Site Drive

- Provide dual right-turn egress
- Provide a right-turn deceleration lane on Crooks Road

170 Corporate Drive & N. Site Drive

- Provide a two-lane egress approach
- Provide a right-turn deceleration lane on Corporate Drive

180 Corporate Drive & W. Site Drive

Provide a right-turn deceleration lane on Corporate Drive

190 WB Long Lake Road & SW. Site Drive

Provide a right-turn deceleration lane on Long Lake Road

200 WB Long Lake Road & SE. Site Drive

- Provide a two-lane egress approach
- Provide a right-turn deceleration lane on Corporate Drive

210 NB to SB Crooks Road XO north of Corporate Drive

- Provide dual lane crossover
- Provide signalization

220 SB to NB Crooks Road XO south of Tower Drive (NEW)

- Provide dual lane crossover
- Provide signalization

230 NB to SB Crooks Road X/O north of Tower Drive

• Relocate crossover further south to accommodate a NB to SB X/O south of Corporate Drive

240 SB to NB Crooks Road X/O south of Tower Drive

- Provide dual lane crossover
- Provide signalization

250 SB Crooks Road & NE. Site Drive

- Provide dual right-turn egress
- Provide a right-turn deceleration lane on Crooks Road

260 Corporate Drive & NW. Site Drive

Provide a two-lane egress approach

M. Landscaping: Refer to Appendix: Sheets: L-1, T-1, T-2 and T-3

- Landscaping will be designed per Article 13 of the City of Troy Zoning Ordinance.
- Tree Survey Originally completed May 15, 2019
 - o 1179 trees 6" DBH or greater were identified and tagged (18 on adjacent property)
 - o One (1) tree on the property is in Good condition (Silver Maple)
 - o Remaining trees are noted as Fair, Poor or Very Poor

N. Natural Resources/Features:

The Site topography is gently sloping from the west to the east (elevation 800 to 774). Most of the Site drains to the southeast property corner and outlets into an existing culvert. Several areas of the property were shown to be disturbed with mounding, digging and evidence of earthwork/contour changes. No buildings or roads exist on the Site.

Wetlands – Refer to Appendix: Sheet A-2, C-1

Based upon the wetland delineation in March 2019, four (4) wetlands were found on the property. Two (2) wetlands were determined to be regulated by the Michigan Department of Environment, Energy & Great Lakes (EGLE). Wetland A and Wetland D is regulated by the City of Troy and EGLE and will need use permits for any impacts. Wetland A is dominantly scrub shrub with a dominance of common buckthorn (*Rhamnus cathartica*), riverbank grape (*Vitis riparia*) and silver maple (*Acer saccharinum*). Wetland D is primarily a scrub shrub wetland with a dominance of glossy buckthorn. The parcel did get processed through the State of Michigan's Wetland Assessment in June 2019. As determined by EGLE, a small stream was identified within the southern edge of Wetland A and drains directly into the existing storm end section. The on-site water travels within the storm pipe along Long Lake and discharges into the Sturgis Drain. It was this relationship to Sturgis Drain that EGLE determined the on-site water feature a stream and thus regulating Wetland A and D. Refer to Wetland Map below and review the included wetland report. Therefore, the City of Troy* and EGLE will require a use permit for Wetland A.

Refer to Wetlands Summary Report dated April 2, 2019 and Wetlands Identification Report from EGLE dated July 29, 2019

Woodlands – Refer to Appendix: Sheet A-4, T-1, T-2, T-3

Approximately, eighty-three percent (83%) of the 24-acre parcel is wooded. The woodland is split between upland and wetland. The table below provides a break-down of tree species counts and overall tree health condition. Based upon the 2019 tree survey, one thousand one hundred-eighty (1,180) trees were tagged based upon the City's tree ordinance of 6-inch diameter at breast height. Twenty-five (25) different tree species were identified on the parcel with 98.9% being deciduous and 1.1% being evergreen. A majority of the tagged trees showed signs of stress which lead to a poor to very poor overall health (82.8% trees were considered poor to very poor). Factors that contribute to a poor to very poor health condition include trunk rot, trunk alignment, pests/ disease, excessive vine coverings, lack of crown, major limb damage and limited twig growth. The higher quality trees which consists primarily of hardwoods are shown in the chart with bold text. They represent only approximately 20% of the woodland. Most of these trees were located within an old utility corridor in the western portion of the property. In addition, scrub shrub habitat was dominant on the parcel consisting mostly of common buckthorn (Rhamnus cathartica). Based upon the statistical data, the woodland represents a low-quality woodlot with a dominance of prohibited trees species as listed by the City (box elder, cottonwood, white and green ash, black locust, silver maple, white poplar, etc.). Tree replacements should focus on high-quality hardwood native and/or cultivars of native trees for re-establishment.

Table 1.0 – 2019 Tree Survey Health & Diversity Chart

Tree Type	Total Count	Poor/VP	Percentage of Total
American Beech	1	0	0.08%
American Elm	130	105	11.02%
Austrian Pine	5	5	0.42%
Basswood	60	38	5.08%
Black Locust	425	416	36.02%
Black Walnut	126	75	10.68%
Black Willow	1	1	0.08%
Blue Spruce	6	0	0.51%
Box elder	127	121	10.76%
Cottonwood	30	20	2.54%
Domestic Apple	8	8	0.68%
Green Ash	78	72	6.61%
Norway Maple	12	1	1.02%
Paper Birch	1	1	0.08%
Pear	1	1	0.08%
Red Maple	2	0	0.17%
Scotch Pine	2	2	0.17%
Shagbark Hickory	1	1	0.08%
Silver Maple	96	50	8.14%
Sugar Maple	8	2	0.68%
Thornapple/Hawthorne	25	25	2.12%
White Ash	1	1	0.08%
White Poplar	1	1	0.08%

Wild Black Cherry	23	22	1.95%
Yellow Birch	10	9	0.85%
TOTALS	1180	977 (82.80%)	100.00%
High Quality Tree Species	239	139 (58.16%)	20.25%
Deciduous Trees Evergreen Trees	1.10% 98.90%		

O. Parking Counts:

Refer to Appendix: Sheet TR-1 - Traffic Impact Study and Shared Parking Study, Section 10

P. Project Phasing:

There is no identifiable phasing plan at this juncture of the proposed development. The overall development is assumed to be phased over time, based on end-user opportunities and economic viability. As various areas are developed, a phasing plan will be formulated in a manner where all parking and building requirements are met throughout each phase.

Q. Public Services/Facilities:

Anticipated demand will be dependent upon the type of development and their uses. City of Troy has sufficient infrastructure to sufficiently support a development of this size and variety.

Much of the stormwater generated from the development will be collected and conveyed via an enclosed storm sewer network to an underground stormwater detention system. The underground detention system provides management of the stormwater rate and quality prior to its discharge into the Sturgis Drain.

R. Historical Resources and Structures:

Based upon available online resources and field observations, no known historic architecture, buildings, foundations and/or archeological features exist on the subject property. Historic aerial imagery suggests that the property was used primarily as agricultural property since 1940 to 1980.

From 1980, the site use changed to fallow field and developed into the wetlands and woodlands you see today. In 1963 – 1964, Interstate 75 was constructed, and Crooks Road entrance/ exit ramp was established. The introduction of the highway system energized the immediate surrounding area to develop into commercial and office/ mixed-use zoning.

Around 1999, the northern portion of the property was disturbed due to construction activity for the development of the office and mixed-use buildings and parking areas. In addition, the National Parks Services has only two sites listed on the historic register. The two listings are as follows:

- Brooks Farm: 3521 Big Beaver Road
- Caswell House: 60 West Wattles Road

Both historic sites are over 2.0 miles from the subject property. The proposed development will not adversely affect the listed historic parcels. The following figures show the progression of the subject parcel from 1940 through 1999. In summary, the parcel was heavily farmed for at least forty years with the last forty years being left to naturalized based upon its surroundings. Through

that time period, one house and accessory buildings have been shown to exist for approximately ten years.

Figure 4: 1940 B&W Aerial, Source: Oakland County Property Gateway. Property is utilized

as agricultural.

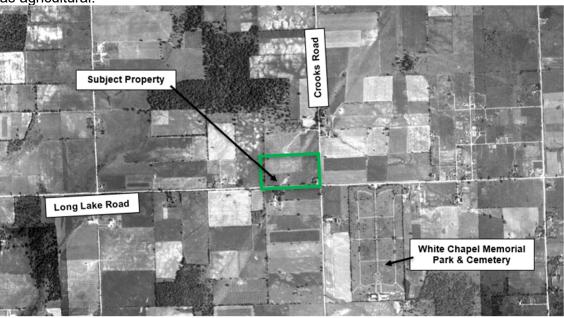


Figure 5: 1963 B&W Aerial, Source: Oakland County Property Gateway. Introduction of Interstate 75, house located in the southeast corner of property; overall property is utilized

as agricultural.



Figure 6: 1963 – Detail of house located at the southeast corner. House appears to be removed by 1974.

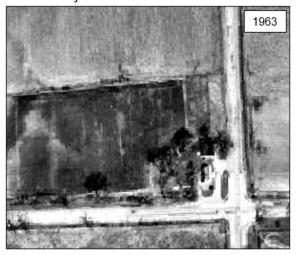




Figure 7: 1974 B&W Aerial, Source: Oakland County Property Gateway. Parcel continues as agricultural use



Figure 8: 1980 B&W Aerial, Source: Oakland County Property Gateway. It appears the parcel is not being farmed.



Figure 9: 1990 B&W Aerial, Source: Oakland County Property Gateway. Significant development surrounding the subject property with office and mix-use. From 1980 to 1990, Corporate Drive is constructed and Long Lake and Crooks Road becomes widen as a boulevard to address future traffic and growth.



Figure 10: 1999 B&W Aerial, Source - Google Earth. Parcel has developed wetlands and woodland area since approximately 1980 due to inactivity on the property (i.e. no farming, maintenance, etc.) Northern portion of the Site receives impacts from the construction activity to the north.



In summary, the Long Lake and Crooks Road 24-acre shares a similar history as most surrounding properties in Troy, Michigan. Once historically farmed, the Site was abandoned from farming and set aside for the future growth and development of the Detroit Metropolitan Area. As shown, this is one of the last large-scale pieces of property within the office and mixed-use zoning in the City of Troy. The resources on the Site are of poor quality due to the lack of land management or planning. As the surrounding properties were developed, this parcel received secondary impacts and disturbance which promotes pioneer plant and tree species to dominant.

S. Site Topography: Refer to Appendix: Sheet C-1

The Site topography is gently sloping from the west to the east (elevation 800 to 774). Most of the Site drains to the southeast property corner and outlets into an existing culvert. Several areas of the property were shown to be disturbed with mounding, digging and evidence of earthwork/contour changes. No buildings or roads were observed on the subject property.

T. Signage: Refer to Appendix: Sheet C-2

Final signage, based on individual area developments, will adhere to all city requirements / regulations as identified in City ordinances. In general, the following signage opportunities are assumed:

- Monument Signs Four (4) monument signs will be provided
 - Main Entrances on Crooks Road, Long Lake Road and Corporate Drive with tenant signage
 - Corner of Long Lake and Crooks with development signage
- Building Signs Signage will be provided for each of the structures within the property

• Directional Signs – Signage will be provided within the property related to parking, fire lanes, one-way traffic, etc.

U. Amenities:

Refer to Appendix: A-7 for locations and opportunities.

- Outdoor plazas to encourage interaction and engagement outside of the workplace.
- Outdoor dining areas opportunities within Retail / Entertainment locations as well as along 'pedestrian boulevard' where daily retail pop-ups can be incorporated.
- Pedestrian circulation paths and activity areas throughout the property for walkability, relaxation and encouragement of a healthy environment.
- Walking paths and activity areas for public and internal use.
- Public artwork

V. Existing Zoning Classification:

O - Office Building District Zoning

Development to support office uses and limited related retail and service uses which support an office environment.

Not supportive of prominent retail or other commercial components

Maximum height – 3 stories/ 36'
Density restrictions
Restaurants – not permitted
Hotel/Lodging – not permitted
Parking Decks – special approval only

W. Specification of Deviations:

The proposed re-zoning will shift from the current Site zoning of 'O' to the desired 'PUD', including variances of development use, maximum height and GSF.

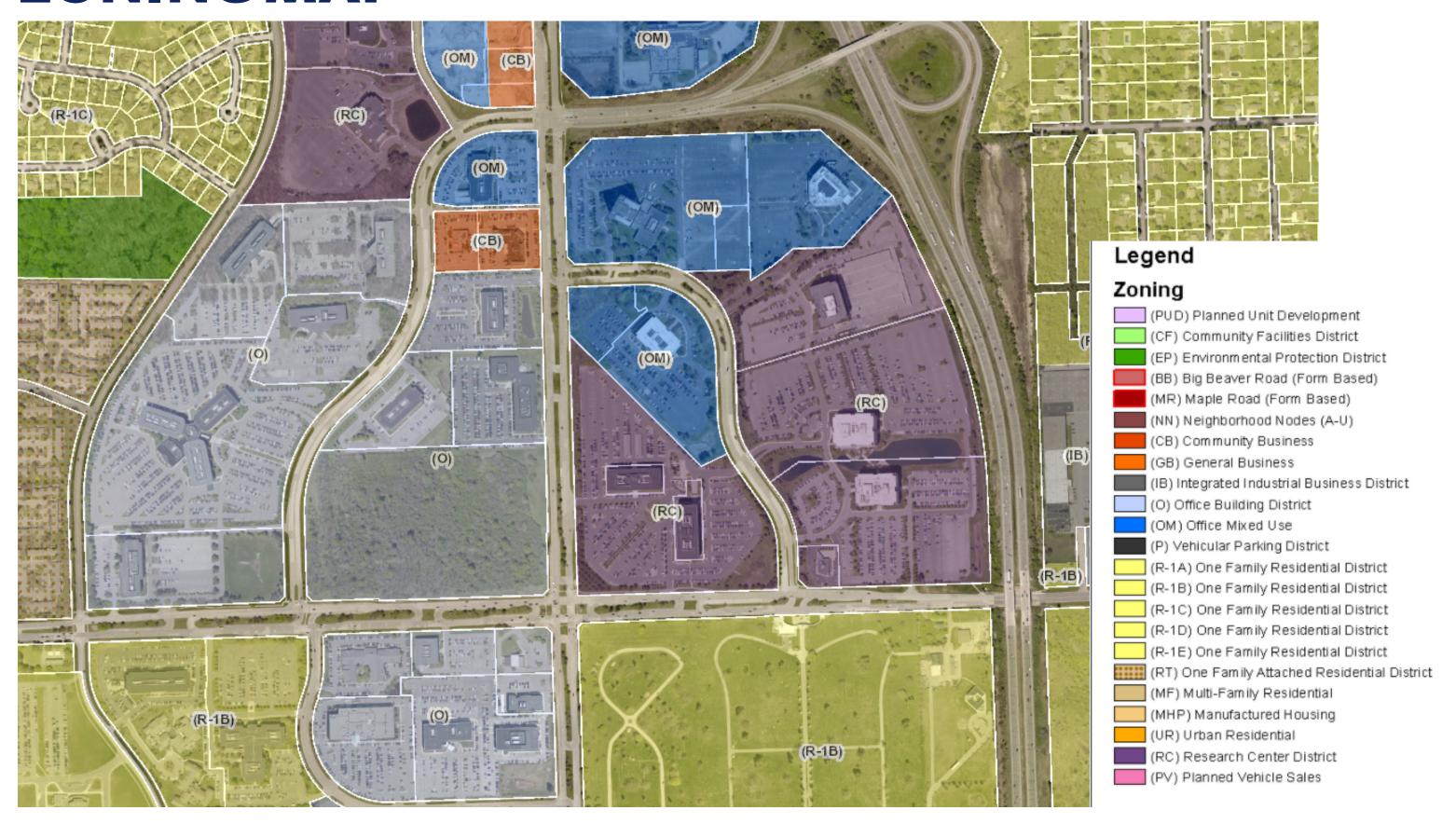
X. Community Impact Statement:

As part of the North Troy Master Plan, the integration of mixed-use developments will help encourage the public to remain in the area outside of the typical 9 to 5 office hours, which in turn will grow and strengthen the local economy and develop a larger presence for the Northfield district. Given the location of the Site, this development is intended to act as a gateway into the district, spearheading North Troy's positioning within the larger city context. It is hoped that the development of this vacant site will encourage further strategic redevelopment of properties within the surrounding area as the next generation of growth.

The development will be pedestrian-friendly and readily accessible, encouraging users to move from building to building in a campus / park-like setting. By enhancing site walkability and creating desirable public and private destinations, this gateway corner will be rejuvenated with new life and vibrancy that the district has currently been void of.

APPENDIX

ZONING MAP





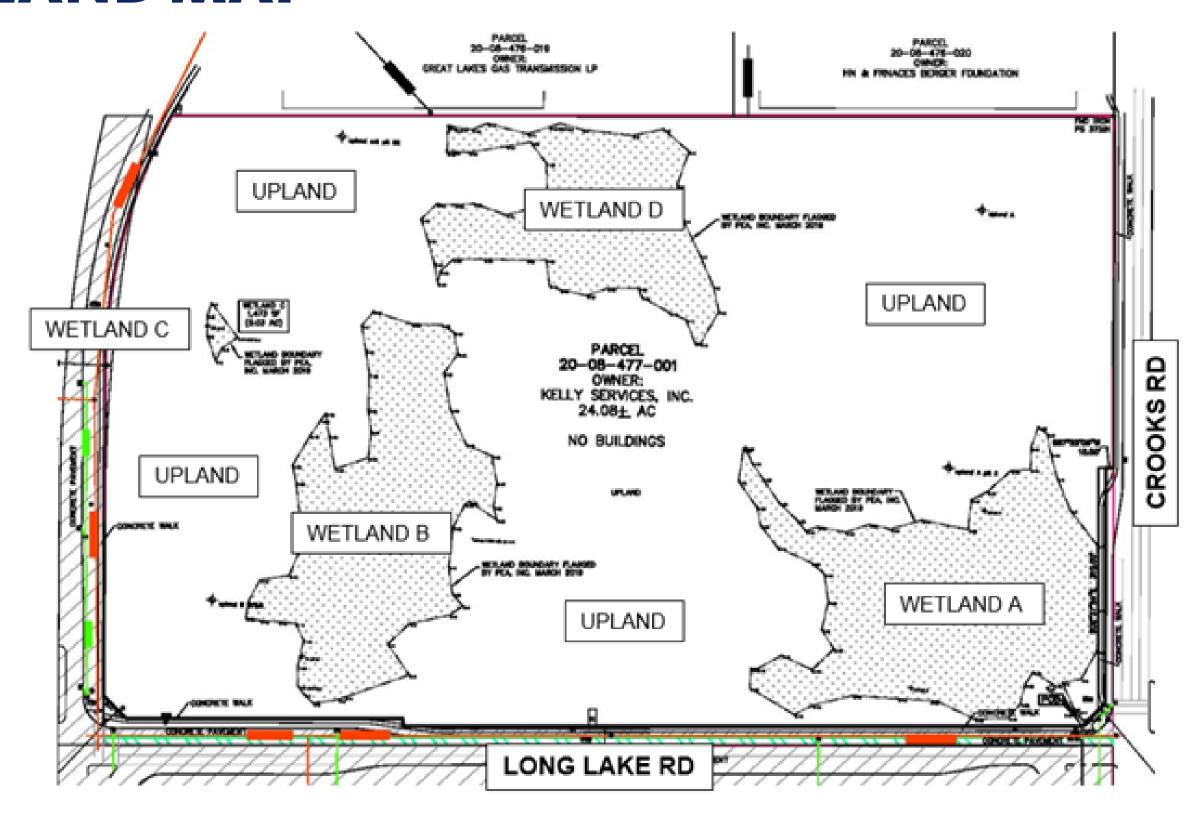
WETLANDS



FIGURE 1: SOURCE - OAKLAND COUNTY PROPERTY GATEWAY



WETLAND MAP



*City of Troy wetlands ordinance only regulates those wetlands regulated by the State of Michigan.



WOODLANDS





CONCEPT DEVELOPMENT PLAN - OVERALL

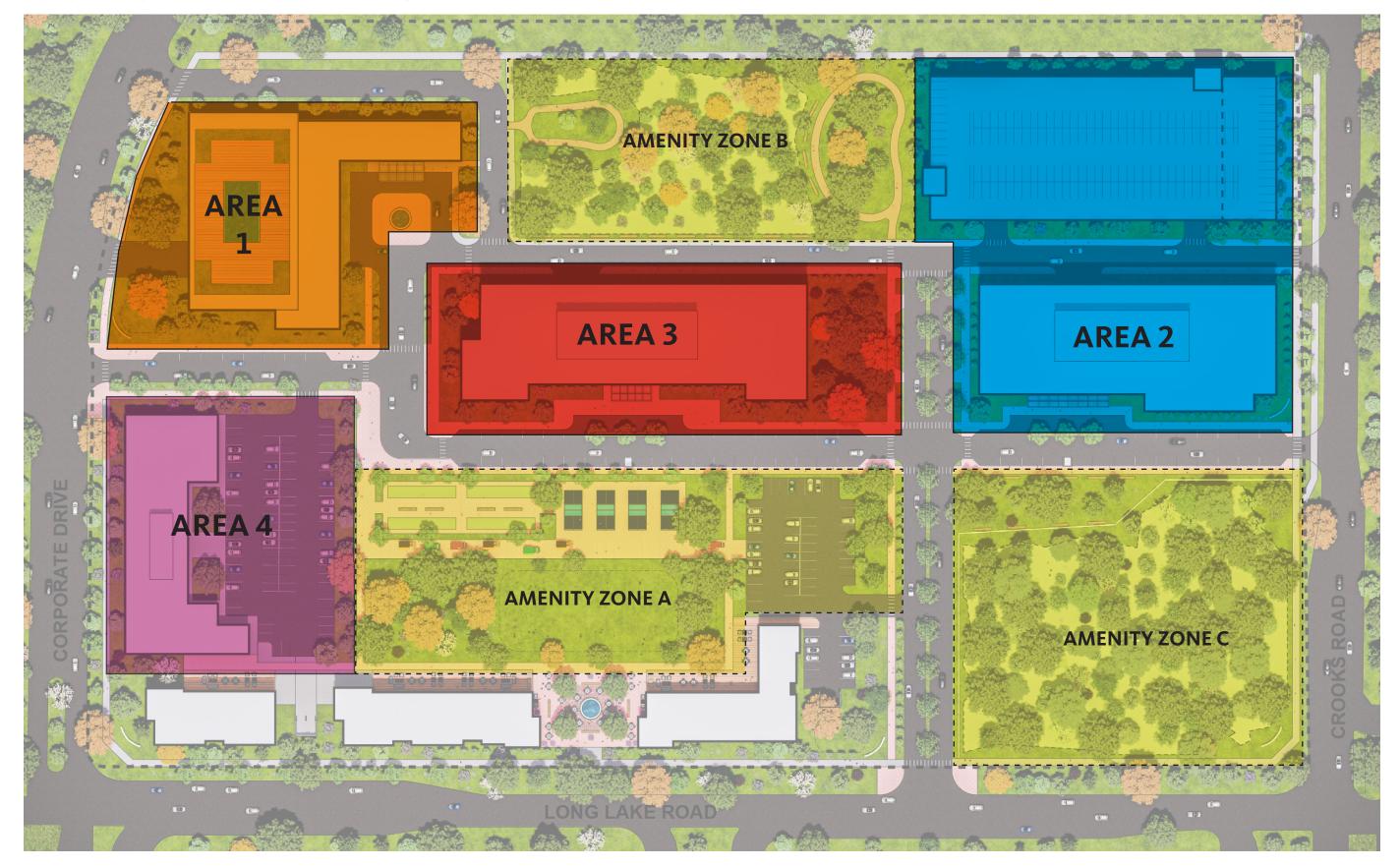




Illustration is a representation of a potential future maximum buildout based on buildout of each Development Area.



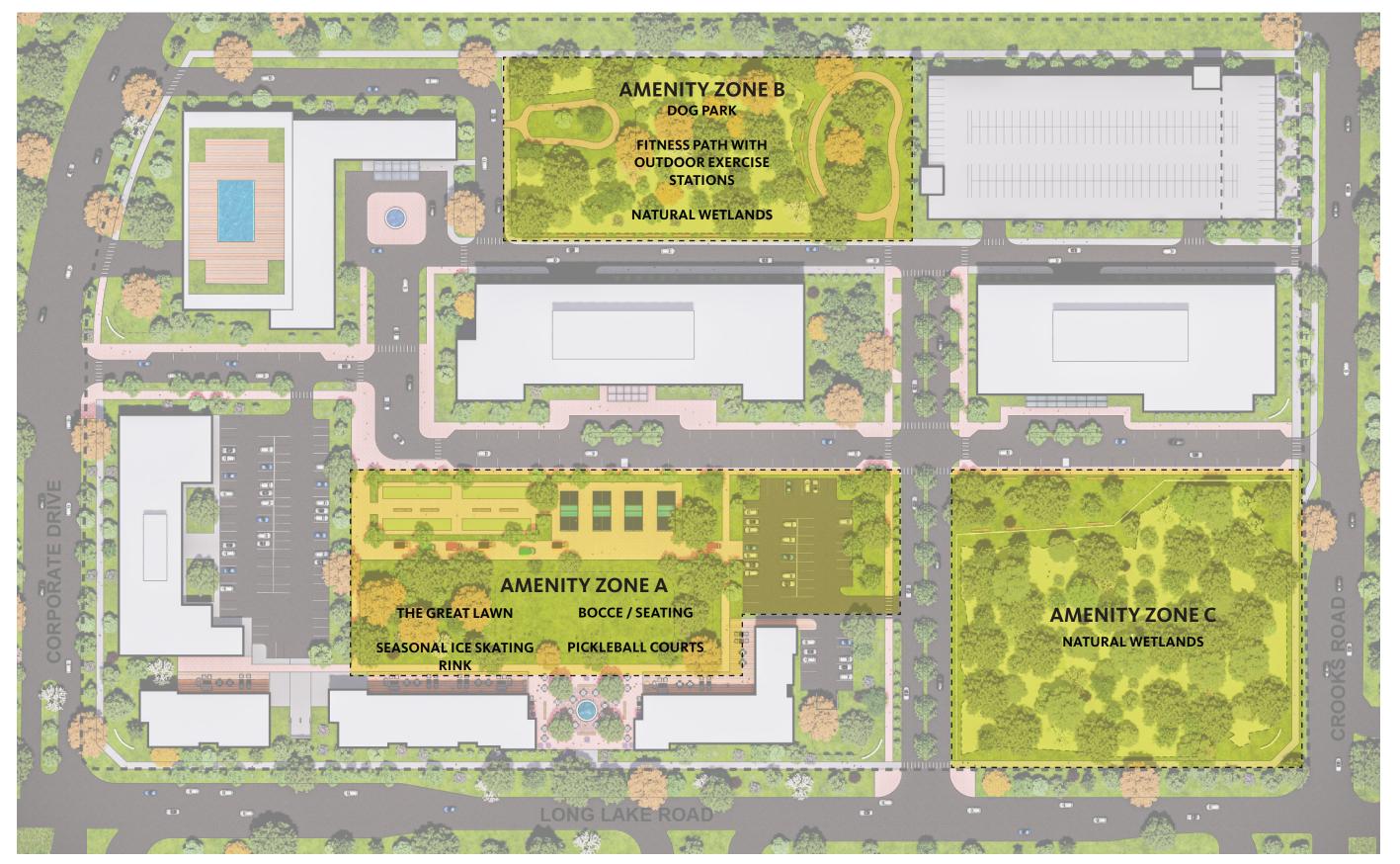
CONCEPT DEVELOPMENT PLAN - DEVELOPMENT AREAS







DEVELOPMENT PLAN - AMENITY ZONES







DEVELOPMENT AREA 1 - RESIDENTIAL

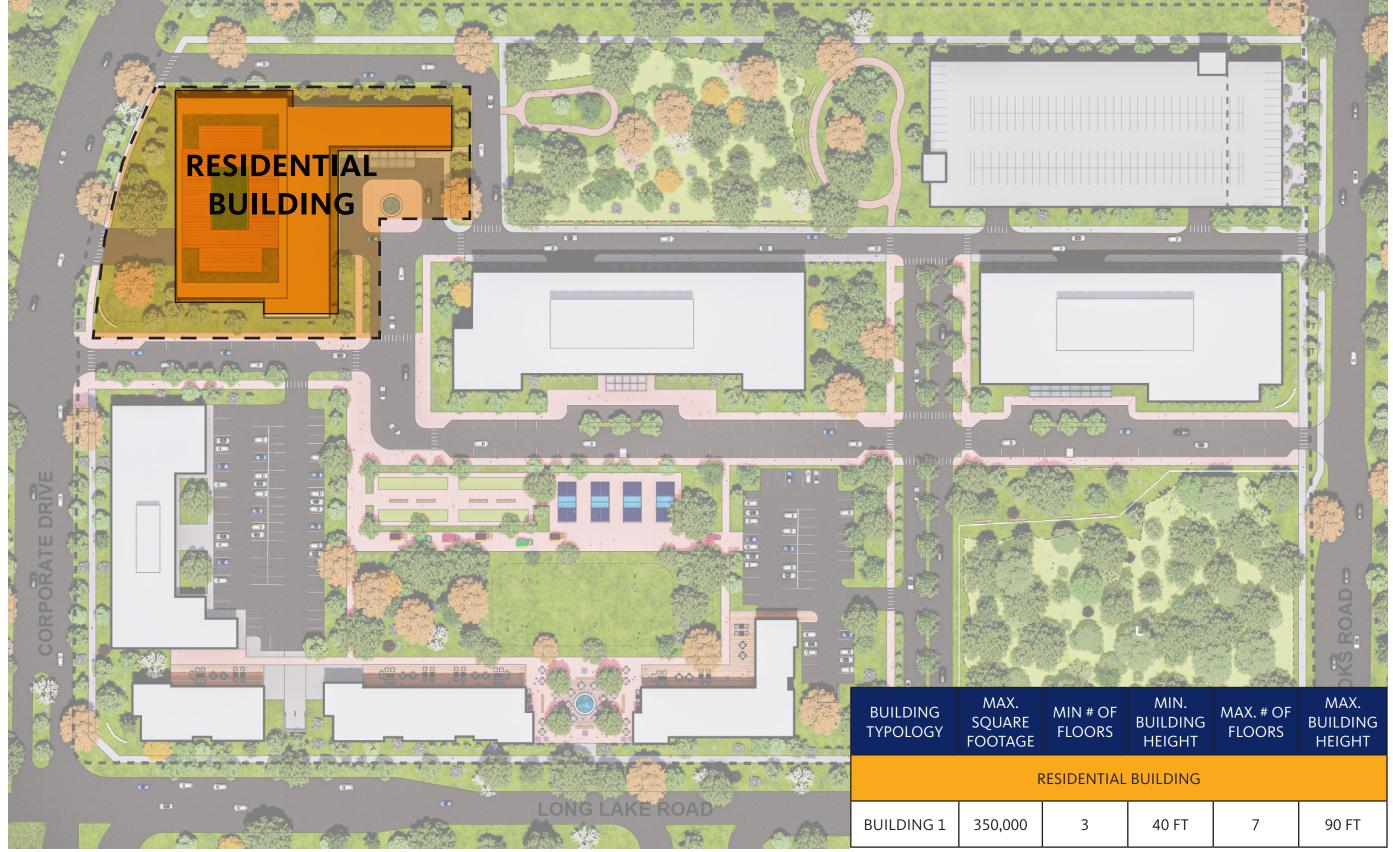




Illustration is a representation of a potential area buildout.



DEVELOPMENT AREA 2 - OFFICE / PROFESSIONAL

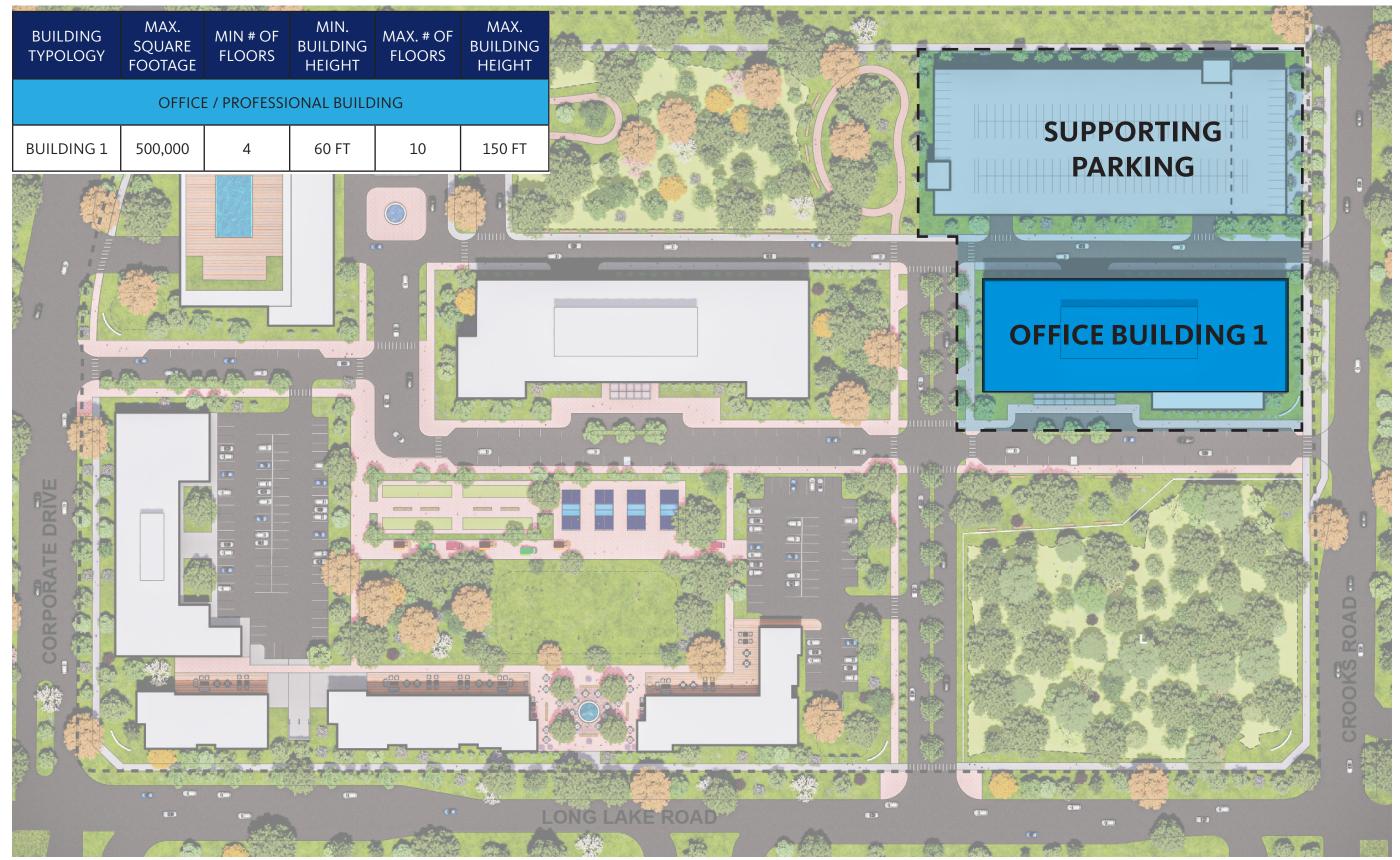




Illustration is a representation of a potential area buildout.



DEVELOPMENT AREA 3 - OFFICE / PROFESSIONAL / RESIDENTIAL

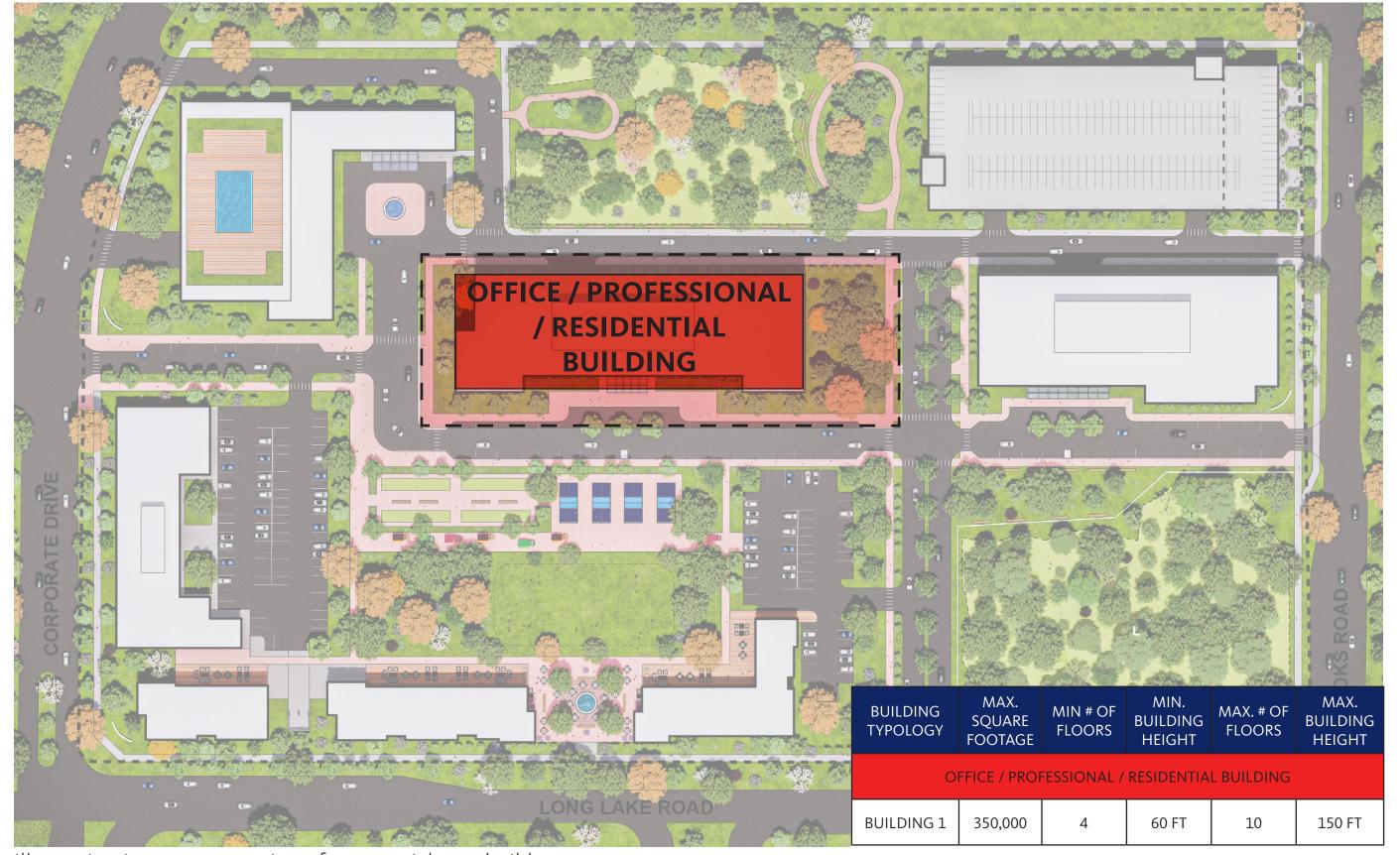




Illustration is a representation of a potential area buildout.



DEVELOPMENT AREA 4 - HOTEL / RESIDENTIAL

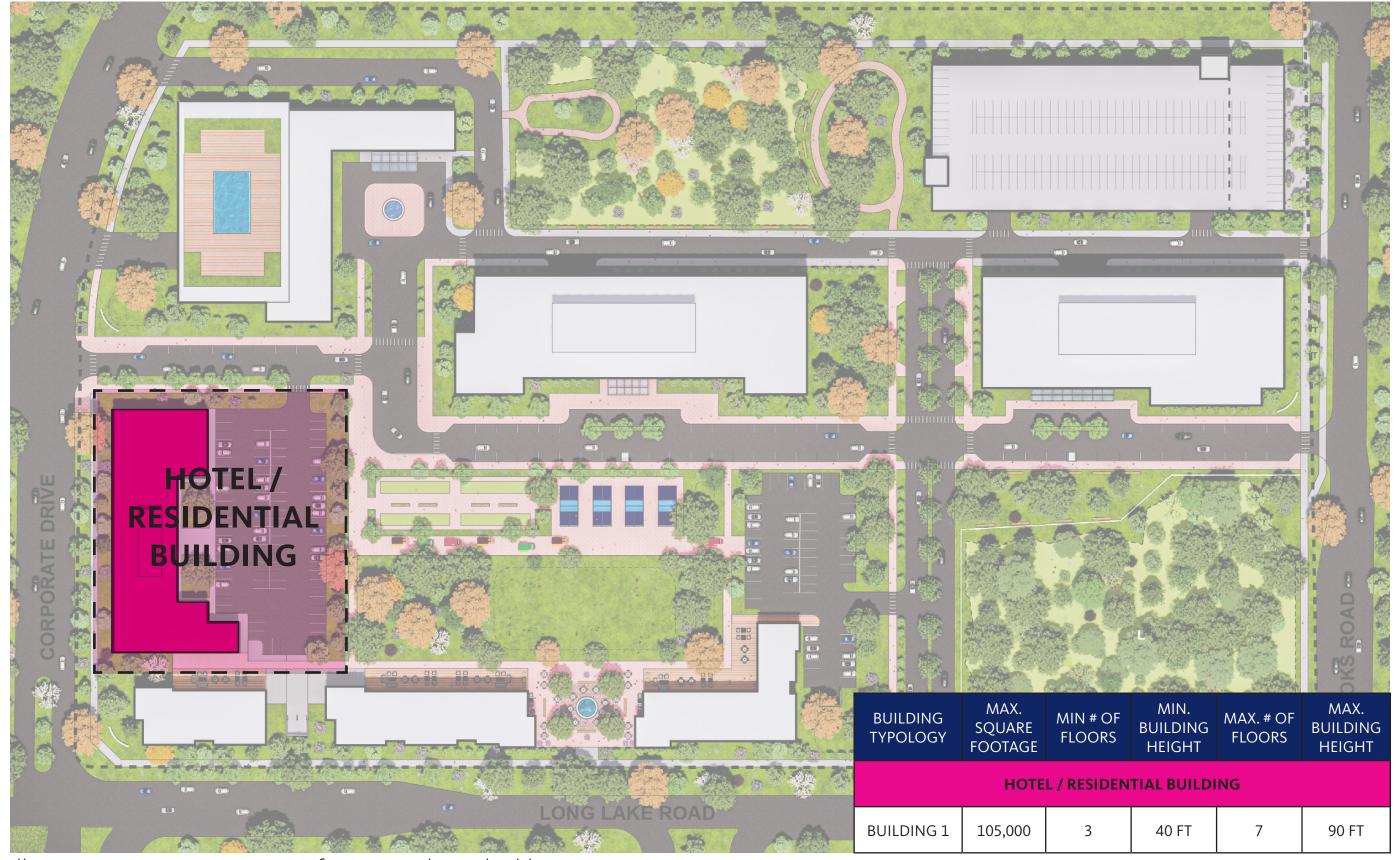
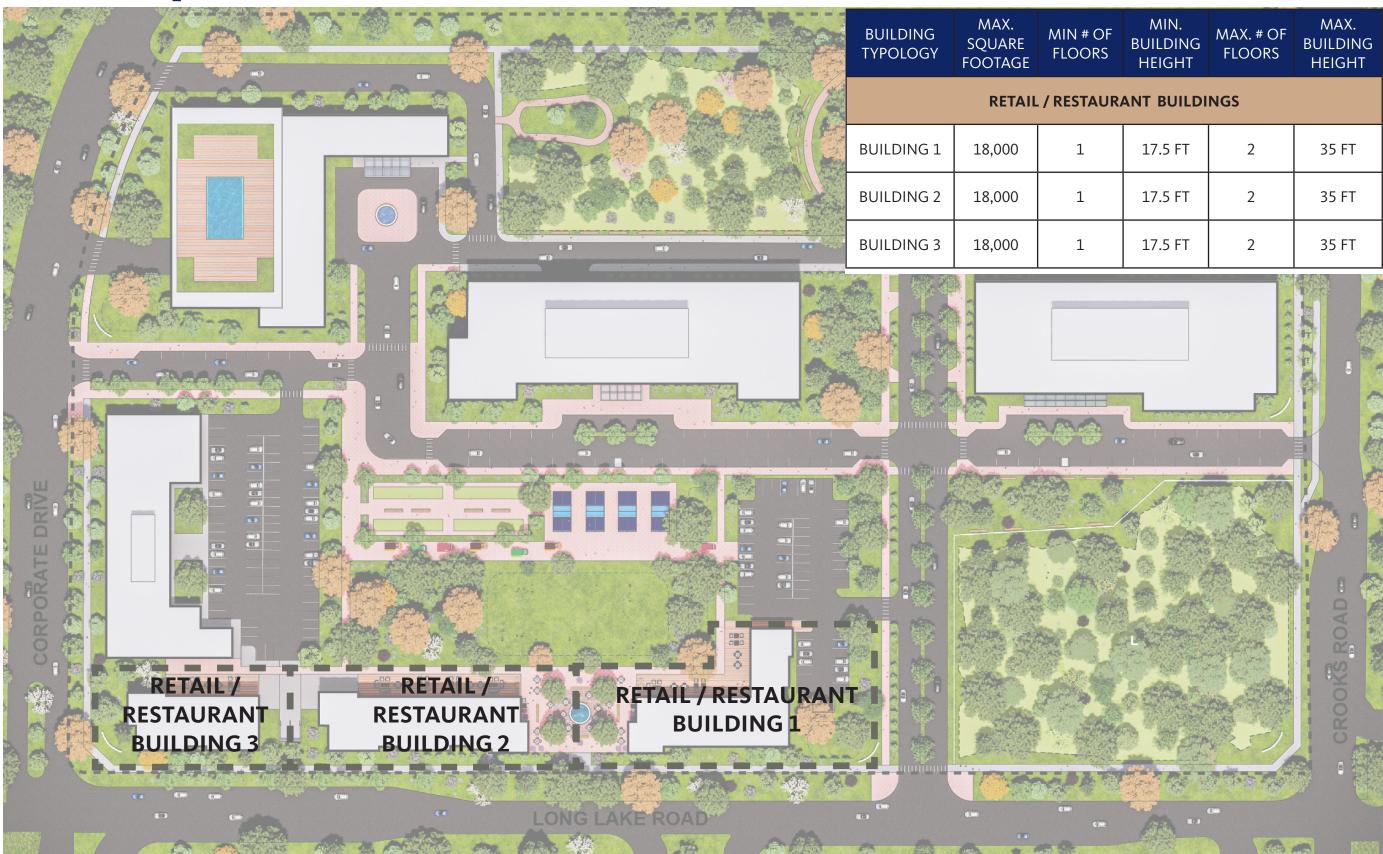




Illustration is a representation of a potential area buildout.

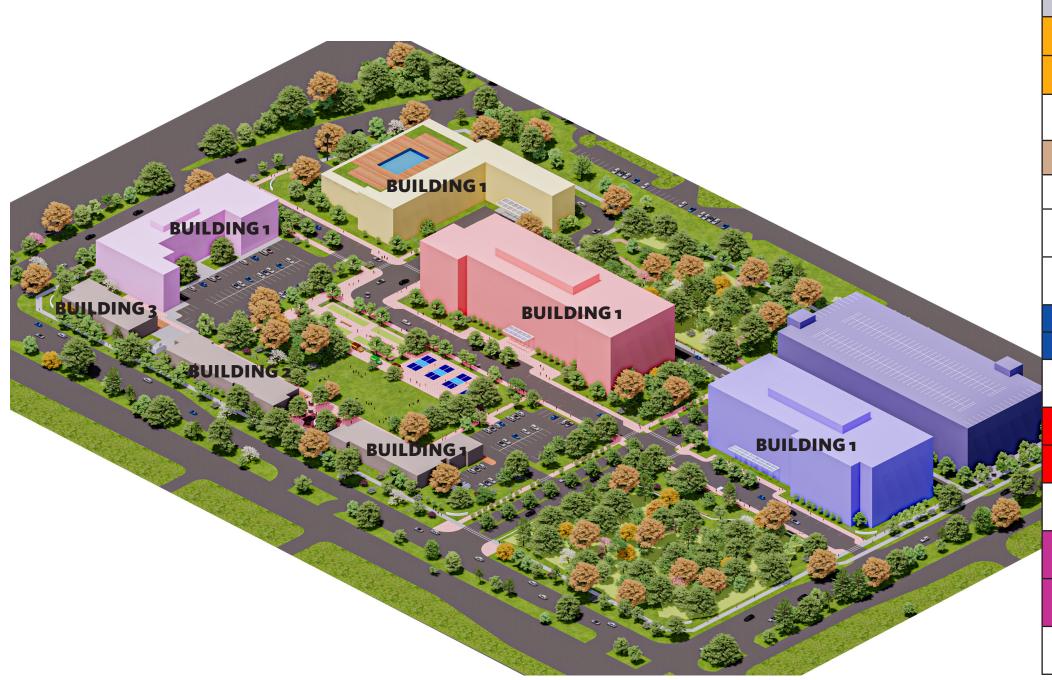


RETAIL / RESTAURANT





CONCEPT DEVELOPMENT PLAN - MASSING



	BUILDING TYPOLOGY	MAX. SQUARE FOOTAGE	MIN. # OF FLOORS	MIN. BUILDING HEIGHT	MAX. # OF FLOORS	MAX. BUILDING HEIGHT			
	DEVELOPMENT AREA 1								
	RESIDENTIAL								
	BUILDING 1	350,000	3	40 FT	7	90 FT			
		ı	RETAIL / RES	TAURANT					
	BUILDING 1	18,000	1	17.5 FT	2	35 FT			
	BUILDING 2	18,000	1	17.5 FT	2	35 FT			
	BUILDING 3	18,000	1	17.5 FT	2	35 FT			
		D	EVELOPME	NT AREA 2					
		0	FFICE / PRO	FESSIONAL					
	BUILDING 1	500,000	4	60 FT	10	150 FT			
A STATE OF THE PARTY OF THE PAR		D	EVELOPME	NT AREA 3					
		OFFICE /	PROFESSION	NAL / RESID	ENTIAL				
	BUILDING 1	350,000	4	60 FT	10	150 FT			
	DEVELOPMENT AREA 4								
		ا	HOTEL / RES	IDENTIAL					
	BUILDING 1	105,000	3	40 FT	7	90 FT			

Illustration is a representation of a potential future maximum buildout based on buildout of each Development Area.





































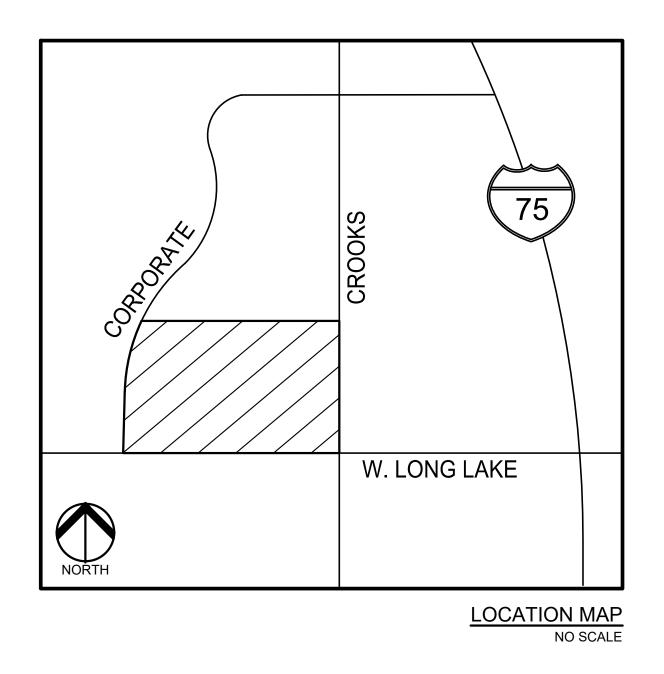




UL OBO

LONG LAKE & CROOKS MASTERPLAN DEVELOPMENT

LONG LAKE AND CROOKS ROAD CITY OF TROY, OAKLAND COUNTY, MICHIGAN



	INDEX OF DRAWINGS
NUMBER	TITLE
	COVER SHEET
C-1.0	TOPOGRAPHIC SURVEY
C-3.0	PRELIMINARY SITE PLAN
C-5.0	PRELIMINARY UTILITY PLAN
L-1.0	PRELIMINARY LANDSCAPE PLAN

DESIGN TEAM

CLIENT

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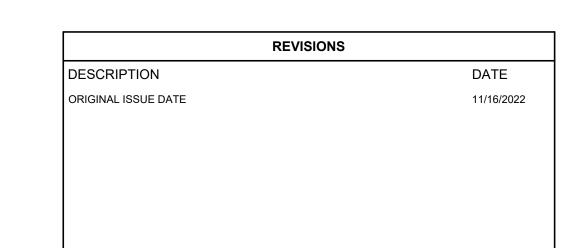
CIVIL ENGINEER

PEA GROUP 1849 POND RUN AUBURN HILLS, MI 48326 CONTACT: GREG BONO, PE PHONE: 844.813.2949 EMAIL: GBONO@PEAGROUP.COM

LANDSCAPE ARCHITECT

PEA GROUP
7927 NEMCO WAY, STE. 115
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PHONE: 844.813.2949
EMAIL: JEVANS@PEAGROUP.COM







wide); thence North 02 degrees 30 minutes 26 seconds West 424.81 feet to a point of curvature; thence 353.35 feet along a curve to the right, said curve having a radius 710.00 feet, a central angel of 28 degrees 30 minutes 52 seconds, and a chord that bears North 11 degrees 45 minutes 00 seconds East 349.71 feet; thence North 87 degrees 15 minutes 31 seconds East 1240.77 feet to the west line of Crooks Road (width varies); thence along said west line the following three (3) courses and distances: 1) South 02 degrees 37 minutes 54 seconds East 463.36 feet; 2) South 87 degrees 22 minutes 06 seconds West 10.00 feet; 3) South 02 degrees 37 minutes 54 seconds East 310.00 feet; thence South 42 degrees 18 minutes 48 seconds West 42.47 feet to the POINT OF BEGINNING and containing 24.08 Acres. -X-X-X- FENCE EAST 1/4 CORNER SECTION 8 5225 CROOKS ROAD 5250 CORPORATE DRIVE **BM** 304 PARCEL NO. 20-08-476-020 PARCEL NO. 20-08-476-019 REFERENCE DRAWINGS ALTA/NSPS LAND TITLE SURVEY, PEA JOB NO. 2019-096, DATED APRIL 9, 2019, REVISED 5/17/2019 WATER MAIN CITY OF TROY GIS MAP SANITARY SEWER CITY OF TROY GIS MAP CITY OF TROY GIS MAP ARC = 353/35'RADIUS = /710.00' 3 DELTA = 28°30'52" FLOODPLAIN NOTE: BY GRAPHICAL PLOTTING, SITE IS WITHIN ZONE 'X', AREA DETERMINED TO BE OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOODPLAIN PER FLOOD INSURANCE RATE MAP NUMBER 26125C0531F, DATED SEPTEMBER 29, 2006. CHORD = 349.71 CH. BRG/ = $N11^{\circ}45'00^{\circ}$ BENCHMARKS BM #300
PUNCH AN ARROW ON A HYDRANT LOCATED ON THE WEST SIDE OF CROOKS ROAD, AT THE SOUTH ENTRANCE TO 5225 CROOKS RD. BM #301
PUNCH AN ARROW ON A HYDRANT LOCATED IN AN ISLAND IN W. LONG
LAKE ROAD JUST WEST OF CROOKS ROAD.
ELEV. — 776.93 NON-EGLE REGULATED 736 BM #302 PUNCH AN ARROW ON A HYDRANT LOCATED IN AN ISLAND IN W. LONG 3,206 SF2(0.07 AC) PUNCH AN ARROW ON A HYDRANT LOCATED IN AN ISLAND IN W. LONG PARCEL ELEV. - 795.26 WETLAND LINE FLAGGED BY 20-08-477-001 PEA, INC. MARCH 2019 OWNER: 12 S 593.71 12"SW 593.96 12"RCP ST LONG LAKE CROOKS DEV ASSOE., LLC 24.08<u>+</u> AC 12"RCP ST LONG LAKE ROAD

(VARIABLE WIDTH)

SOUTH 1/4 CORNER SECTION 8

T02N, R11E

LEGAL DESCRIPTION

of Michigan described as follows:

(Per Seaver Title Agency Commitment File No. 63-15403143-SCM, Revision 6, Commitment Date May 06, 2019.)

A parcel of land in a part of the southeast quarter of Section 8, T.02N., R.11E., City of Troy, County of Oakland, State

Commencing at the Southeast corner of Section 8, T.02N., R.11E., City of Troy, County of Oakland, State of Michigan, thence South 87 degrees 15 minutes 31 seconds West 130.00 feet; thence North 02 degrees 37 minutes 54 seconds

West 100.00 feet to the north line of Long Lake Road (width varies) and the POINT OF BEGINNING; thence along said

féet; thence North 47 degrees 37 minutes 28 Seconds West 42.26 feet to the easterly line of Corporate Drive (120'

north line the following three (3) courses and distances 1) South 87 degrees 15 minutes 31 seconds West 894.70 feet;

2) North 02 degrees 30 minutes 26 seconds West 10.00 feet; 3) South 87 degrees 15 minutes 31 seconds West 364.00

LEGEND

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-OH-ELEC-VV-O--- ELEC., PHONE OR CABLE TV O.H. LINE, POLE & GUY WIRE

GAS MAIN, VALVE & GAS LINE MARKER

— Ç _____ W— WATERMAIN, HYD., GATE VALVE, TAPPING SLEEVE & VALVE

COMBINED SEWER & MANHOLE

POST INDICATOR VALVE

UNIDENTIFIED STRUCTURE

SPOT ELEVATION CONTOUR LINE

GRAVEL SHOULDER

LAKE ROAD, APPROX. 650'± WEST OF CROOKS ROAD.

LAKE ROAD, APPROX. 350'± EAST OF CORPORATE DRIVE.

ENTRANCE TO 5250 CORPORATE DRIVE.

SOUTHEAST CORNER SECTION 8 TO2N, R11E

PUNCH AN ARROW ON A HYDRANT LOCATED ON THE WEST SIDE OF

CORPORATE DRIVE, APPROX. 290'± SOUTHWEST FROM THE SOUTH

☆ STREET LIGHT

ELECTRIC U.G. CABLE, MANHOLE, METER & HANDHOLE

SQUARE, ROUND & BEEHIVE CATCH BASIN, YARD DRAIN

MAILBOX, TRANSFORMER, IRRIGATION CONTROL VALVE

WATER VALVE BOX/HYDRANT VALVE BOX, SERVICE SHUTOFF

-UG-CATV-TV- UNDERGROUND CABLE TV, CATV PEDESTAL

SANITARY SEWER, CLEANOUT & MANHOLE

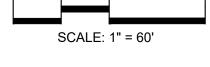
-⊠-UG-PHONE-①--- TELEPHONE U.G. CABLE, PEDESTAL & MANHOLE

SEC. CORNER FOUND R RECORDED M MEASURED C CALCULATED

GROUP

t: 844.813.2949 www.peagroup.com







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LOCATION MAP

. LONG LAKE

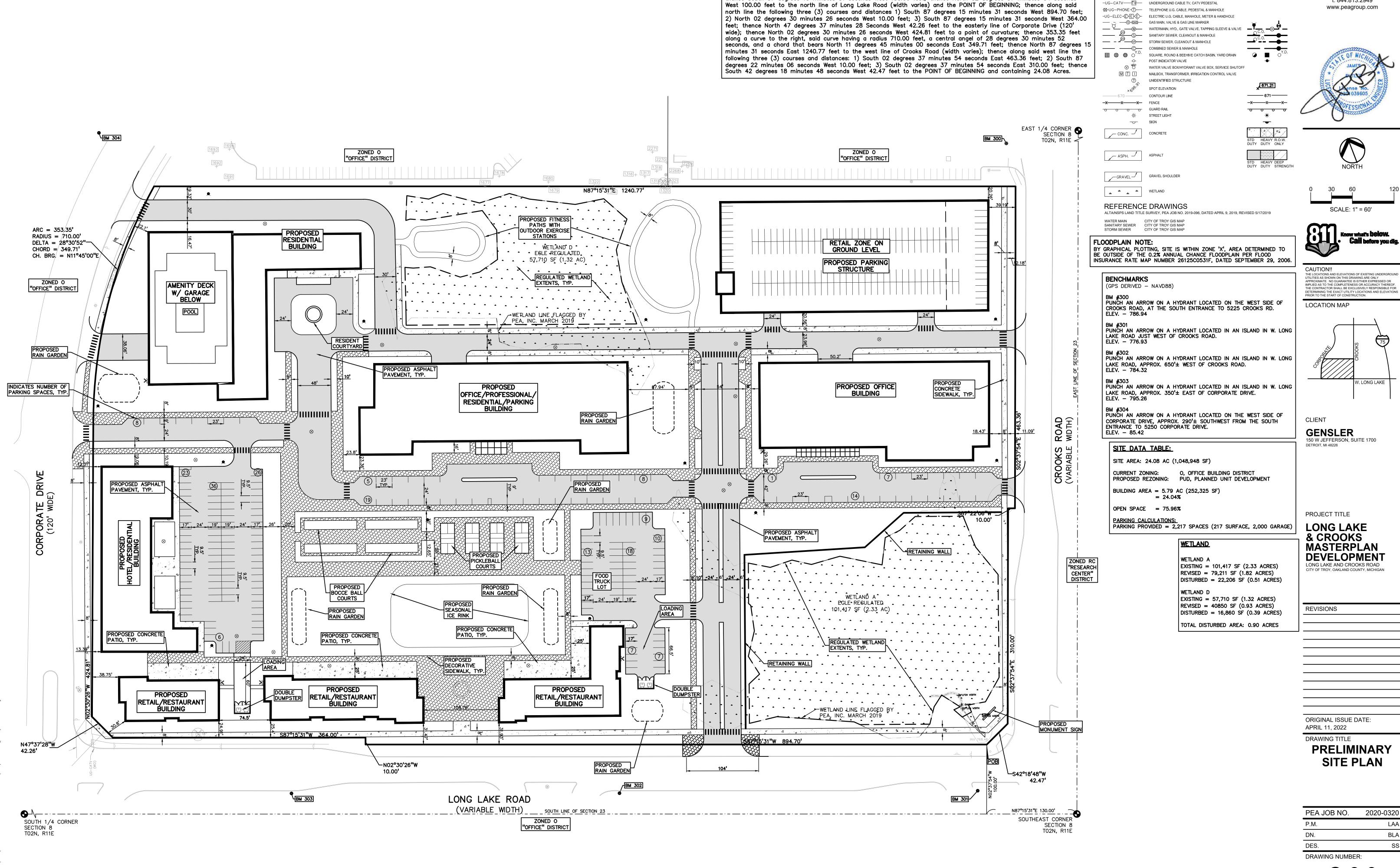
GENSLER
150 W JEFFERSON, SUITE 1700
DETROIT, MI 48226

PROJECT TITLE **LONG LAKE** & CROOKS **MASTERPLAN** DEVELOPMENT
LONG LAKE AND CROOKS ROAD
CITY OF TROY, OAKLAND COUNTY, MICHIGAN

ORIGINAL ISSUE DATE: APRIL 11, 2022

TOPOGRAPHIC SURVEY

2020-0320 PEA JOB NO.



LEGAL DESCRIPTION

of Michigan described as follows:

(Per Seaver Title Agency Commitment File No. 63-15403143-SCM, Revision 6, Commitment Date May 06, 2019.)

A parcel of land in a part of the southeast quarter of Section 8, T.O2N., R.11E., City of Troy, County of Oakland, State

Commencing at the Southeast corner of Section 8, T.02N., R.11E., City of Troy, County of Oakland, State of Michigan, thence South 87 degrees 15 minutes 31 seconds West 130.00 feet; thence North 02 degrees 37 minutes 54 seconds

SEC. CORNER FOUND R RECORDED M MEASURED GROUP C CALCULATED

LEGEND

BRASS PLUG SET

MONUMENT SET

-OH-ELEC-W-O- ELEC., PHONE OR CABLE TV O.H. LINE, POLE & GUY WIRE

MONUMENT FOUND

IRON FOUND

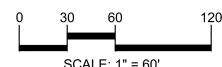
Ø NAIL & CAP SET



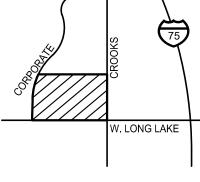
t: 844.813.2949



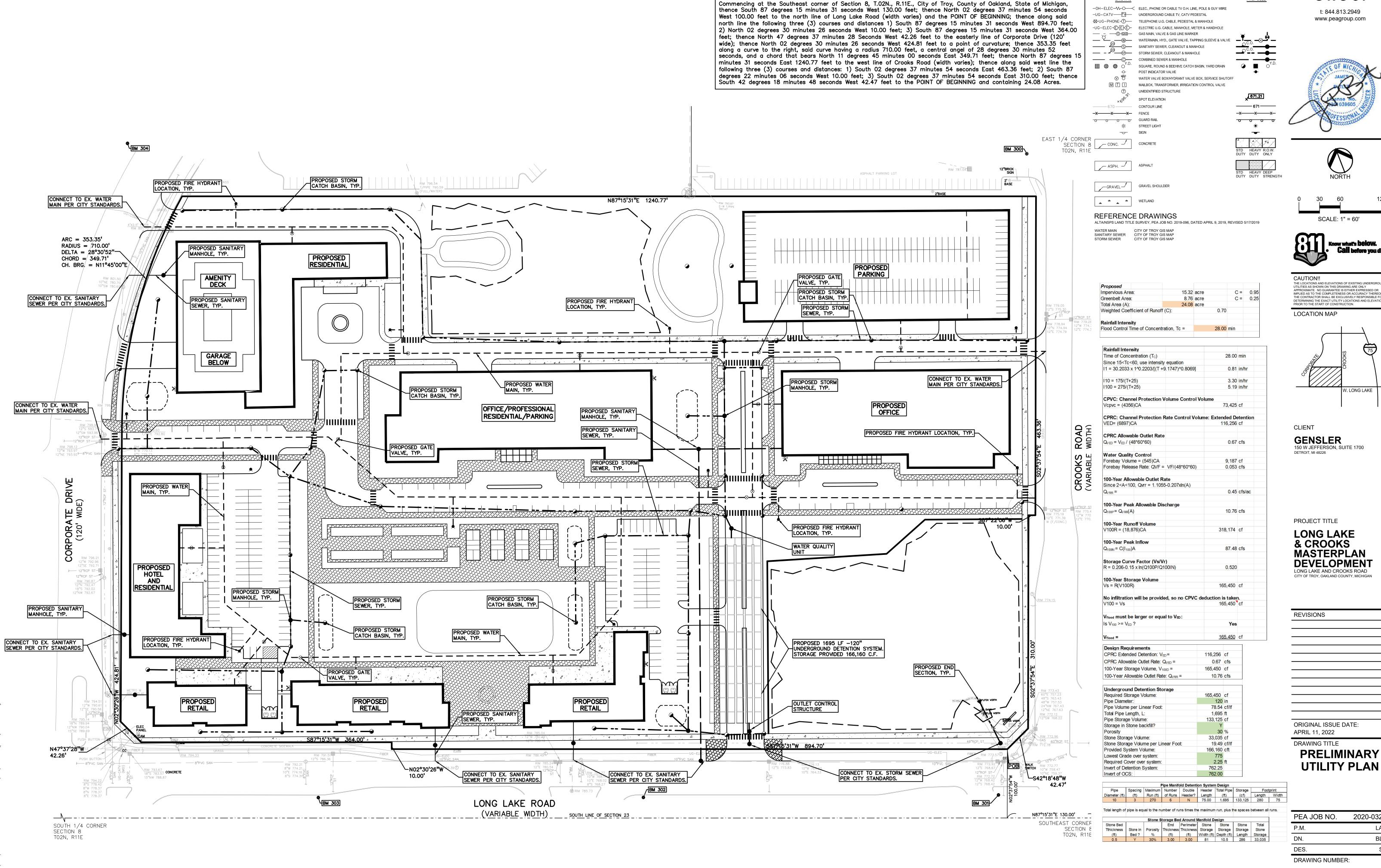








2020-0320 LAA BLA



LEGAL DESCRIPTION

of Michigan described as follows:

(Per Seaver Title Agency Commitment File No. 63-15403143-SCM, Revision 6, Commitment Date May 06, 2019.)

A parcel of land in a part of the southeast quarter of Section 8, T.02N., R.11E., City of Troy, County of Oakland, State

GROUP

LEGEND

SEC. CORNER FOUND

R RECORDED

M MEASURED

C CALCULATED

BRASS PLUG SET

MONUMENT SET

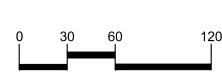
MONUMENT FOUND

IRON FOUND

Ø NAIL & CAP SET

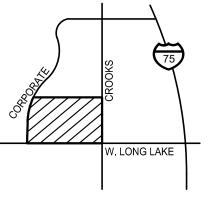






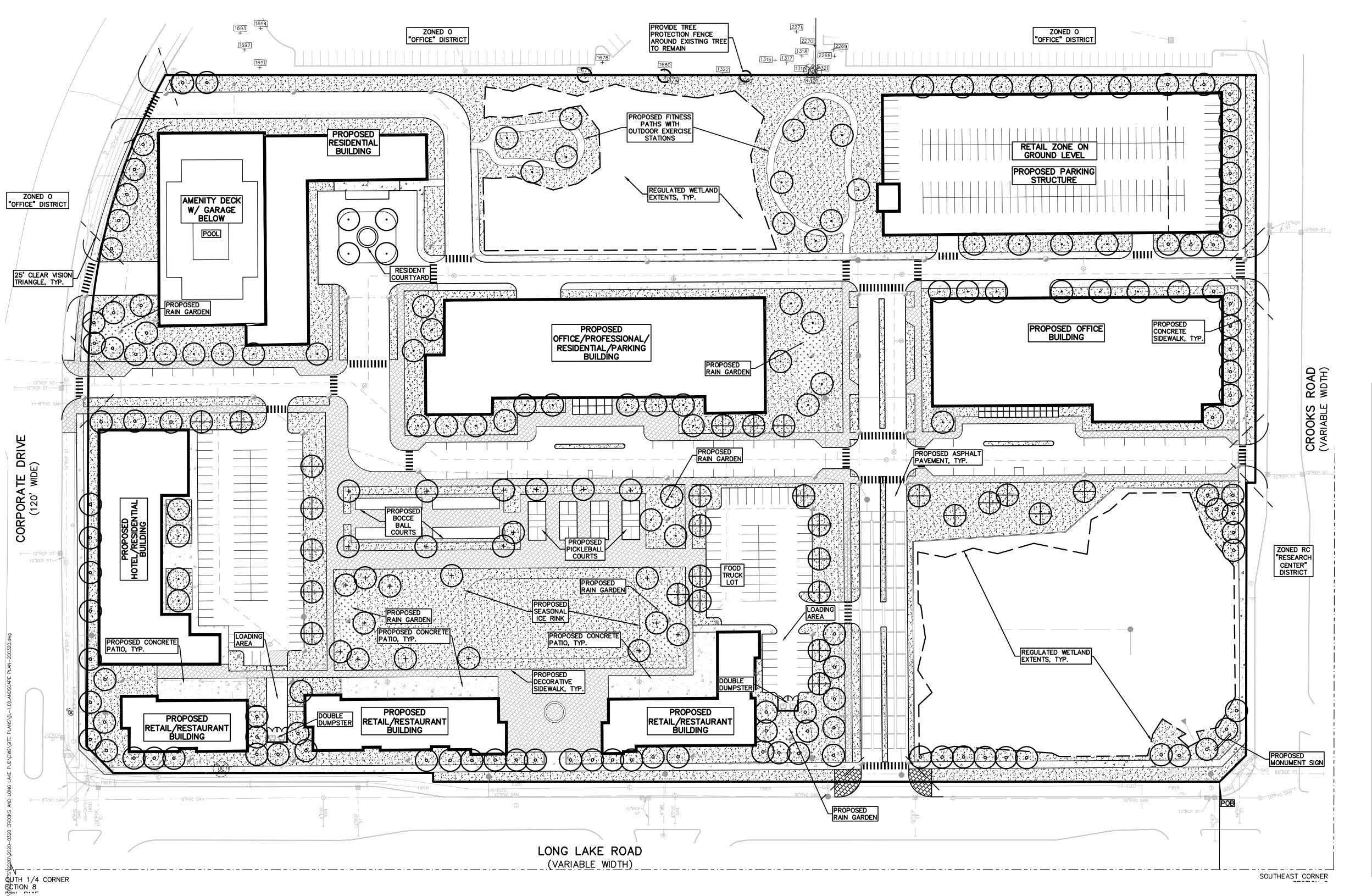


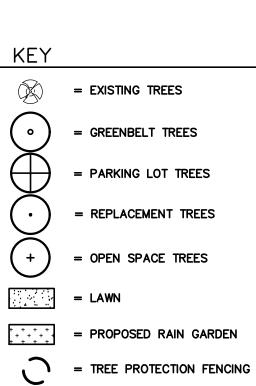
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REVISIONS			
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uns.		
	PEA JOB NO.	2020-0320
	P.M.	LAA
	DN.	BLA
	DES.	SS
		D.





LANDSCAPE CALCULATIONS:

PER CITY OF TROY ZONING ORDINANCE: PROPOSED PUD GREENBELT (13.02.D)

REQUIRED: MIN. 10 FEET IN WIDTH, ONE DECIDUOUS TREE

PER 30 LINEAL FEET, MIN. CALIPER OF 2.5" CROOKS RD: 773.36 LF/30 = 26 TREESLONG LAKE RD: 1258.7 LF/30 = 42 TREESCORPORATE DR: 774.52 LF/30 = 26 TREES

CROOKS RD: 26 TREES LONG LAKE RD: 42 TREES CORPORATE DR: 26 TREES

PARKING LOT SCREENING (13.02.C.3)

REQUIRED: PARKING LOTS THAT FRONT ON A PUBLIC ROADWAY SHALL BE SCREENED BY A LANDSCAPED BERM AT LEAST THREE (3) FEET IN HEIGHT ALONG THE PERIMETER OF THE ROAD RIGHT-OF-WAY. ALTERNATIVE LANDSCAPE PLANTINGS OR A SOLID WALL THAT DOES NOT EXCEED THREE (3) FEET IN HEIGHT MAY BE APPROVED.

PARKING LOT LANDSCAPE (13.02C.2)

REQUIRED: ONE TREE PER 8 SPACES, MIN. OF 3' FROM BACK OF CURB OR 5' WHERE THERE IS A CAR OVERHANG.

217 SURFACE PARKING SPACES/8 = 27 TREES PROVIDED:

BUFFER ZONE (13.02.B)

REQUIRED: A LANDSCAPE BUFFER SHALL BE CONSTRUCTED TO CREATE A VISUAL SCREEN AT LEAST SIX (6) FEET IN HEIGHT ALONG ALL ADJOINING BOUNDARIES WHEN A PROPOSED USE IS EITHER MORE INTENSE OR INCOMPATIBLE WITH AN ADJOINING PROPERTY, AS SET FORTH IN TABLE

TREE REPLACEMENT: TO BE DETERMINED

WOODLAND: 30 CALIPER INCHES LANDMARK: 131.5 CALIPER INCHES

TOTAL: 161.5 CALIPER INCHES OR (65) 2.5" TREES PROVIDED: 65 REPLACEMENT TREES ESTIMATED

65 REPLACEMENT TREES AND 23 ADDITIONAL OPEN SPACE TREES PROVIDED

GENERAL PLANTING NOTES:

SYMMETRICAL CROWNS.

CROWNS SHALL NOT BE ACCEPTED.

- LANDSCAPE CONTRACTOR SHALL VISIT SITE, INSPECT EXISTING SITE CONDITIONS AND REVIEW PROPOSED PLANTING AND RELATED WORK. IN CASE OF DISCREPANCY BETWEEN PLAN AND PLANT LIST, PLAN SHALL GOVERN QUANTITIES. CONTACT LANDSCAPE ARCHITECT WITH ANY
- CONTRACTOR SHALL VERIFY LOCATIONS OF ALL ON SITE UTILITIES PRIOR TO BEGINNING CONSTRUCTION ON HIS/HER PHASE OF WORK. ELECTRIC, GAS, TELEPHONE, CABLE TELEVISION MAY BE LOCATED BY CALLING MISS DIG 1-800-482-7171. ANY DAMAGE OR INTERRUPTION OF SERVICES SHALL BE THE RESPONSIBILITY OF CONTRACTOR. CONTRACTOR SHALL COORDINATE ALL RELATED ACTIVITIES WITH OTHER TRADES ON THE JOB AND SHALL REPORT ANY UNACCEPTABLE JOB CONDITIONS TO OWNER'S REPRESENTATIVE PRIOR TO COMMENCING.
- ALL PLANT MATERIAL TO BE PREMIUM GRADE NURSERY STOCK AND SHALL SATISFY AMERICAN ASSOCIATION OF NURSERYMEN STANDARD FOR NURSERY STOCK. ALL LANDSCAPE MATERIAL SHALL BE NORTHERN GROWN, NO. 1.
- CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL QUANTITIES SHOWN ON LANDSCAPE PLAN PRIOR TO PRICING THE WORK.
- THE OWNER'S REPRESENTATIVE RESERVES THE RIGHT TO REJECT ANY PLANT MATERIAL NOT MEETING SPECIFICATIONS.
- ALL SINGLE STEM SHADE TREES TO HAVE STRAIGHT TRUNKS AND
- . ALL SINGLE TRUNK SHADE TREES TO HAVE A CENTRAL LEADER; TREES WITH FORKED OR IRREGULAR TRUNKS WILL NOT BE ACCEPTED.
- ALL MULTI STEM TREES SHALL BE HEAVILY BRANCHED AND HAVE
- ALL EVERGREEN TREES SHALL BE HEAVILY BRANCHED AND FULL TO THE GROUND, SYMMETRICAL IN SHAPE AND NOT SHEARED FOR THE LAST FIVE
- 10. ALL TREES TO HAVE CLAY OR CLAY LOAM BALLS, TREES WITH SAND BALLS WILL BE REJECTED.

SYMMETRICAL CROWNS. ONE SIDED TREES OR THOSE WITH THIN OR OPEN

- 11. NO MACHINERY IS TO BE USED WITHIN THE DRIP LINE OF EXISTING TREES; HAND GRADE ALL LAWN AREAS WITHIN THE DRIP LINE OF EXISTING TREES.
- 12. ALL TREE LOCATIONS SHALL BE STAKED BY LANDSCAPE CONTRACTOR AND
- ARE SUBJECT TO THE APPROVAL OF THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION OF THE PLANT MATERIAL.
- 13. IT IS MANDATORY THAT POSITIVE DRAINAGE IS PROVIDED AWAY FROM ALL BUILDINGS.
- 14. ALL PLANTING BEDS SHALL RECEIVE 3" SHREDDED HARDWOOD BARK MULCH WITH PRE EMERGENT, SEE SPECIFICATIONS. SHREDDED PALETTE AND DYED MULCH WILL NOT BE ACCEPTED.
- 15. ALL LANDSCAPED AREAS SHALL RECEIVE 3" COMPACTED TOPSOIL.
- 16. SEE SPECIFICATIONS FOR ADDITIONAL COMMENTS, REQUIREMENTS, PLANTING PROCEDURES AND WARRANTY STANDARDS.
- 17. CONTRACTOR SHALL NOT INSTALL PLANTS UNDER BUILDING OVERHANG AND SHALL NOTIFY LANDSCAPE ARCHITECT IF DRAWINGS CONFLICT WITH BUILDING OVERHANGS.

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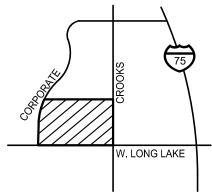






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LOCATION MAP



GENSLER 150 W JEFFERSON, SUITE 1700 DETROIT, MI 48226

PROJECT TITLE

LONG LAKE & CROOKS **MASTERPLAN DEVELOPMENT** LONG LAKE AND CROOKS ROAD

CITY OF TROY, OAKLAND COUNTY, MICHIGAN

REVISIONS	

ORIGINAL ISSUE DATE: APRIL 11, 2022

DRAWING TITLE **PRELIMINARY** LANDSCAPE **PLAN**

2020-0320 PEA JOB NO. AEH JLE DRAWING NUMBER:



t: 844.813.2949		Very Poor	Acer negundo	Box elder	10	BX	1322		Poor	Ulmus americana
www.peagroup.com	x2	Fair	Acer saccharinum	Silver Maple	21	SM	1323		Very Poor	Fraxinus pennsylvanica
		Fair	Acer saccharum	Sugar Maple	6	SU	1324		Very Poor	Fraxinus pennsylvanica
		Poor	Acer negundo	Box elder	6	BX	1325	x1	Fair	Ulmus americana
	x1	Fair	Ulmus americana	American Elm	25	Е	1326	x2	Fair	Acer saccharinum
	I							The state of the s		

		BX	10	Box elder	Acer negundo	Very Poor	
	1323	SM	21	Silver Maple	Acer saccharinum	Fair	x2
	1324	SU	6	Sugar Maple	Acer saccharum	Fair	
	1325	ВХ	6	Box elder	Acer negundo	Poor	
	1326	E	25	American Elm	Ulmus americana	Fair	x1
	1327	ВС	12	Wild Black Cherry	Prunus serotina	Very Poor	
_	1328	BX	8	Box elder	Acer negundo	Poor	
_	1329	BX	19	Box elder	Acer negundo	Poor	
_	1330	BX E	9	Box elder	Acer negundo	Poor	
	1331 1332	BX	24	American Elm Box elder	Ulmus americana Acer negundo	Poor Poor	
	1333	BX	19	Box elder	Acer negundo Acer negundo	Poor	
	1334	BX	6	Box elder	Acer negundo	Poor	
	1335	BX	6	Box elder	Acer negundo	Poor	
	1336	BX	9	Box elder	Acer negundo	Poor	
	1337	ВХ	12	Box elder	Acer negundo	Poor	х3
	1338	GA	6	Green Ash	Fraxinus pennsylvanica	Poor	
	1339	ВХ	8	Box elder	Acer negundo	Poor	x2
_	1340	SM	22	Silver Maple	Acer saccharinum	Fair	
_	1341	SM	22	Silver Maple	Acer saccharinum	Fair	
_	1342 1343	BX BX	6 8	Box elder Box elder	Acer negundo Acer negundo	Poor Poor	
	1344	BC	9	Wild Black Cherry	Prunus serotina	Very Poor	x2
_	1345	E	12	American Elm	Ulmus americana	Fair	AZ
	1346	BL	8	Black Locust	Robinia pseudoacacia	Poor	
	1347	BW	18	Black Walnut	Juglans nigra	Fair	
	1348	BL	9	Black Locust	Robinia pseudoacacia	Poor	
	1349	BL	12	Black Locust	Robinia pseudoacacia	Poor	
	1350	ВХ	9	Box elder	Acer negundo	Poor	
	1351	BX	15	Box elder	Acer negundo	Poor	
-	1352	BL	15	Black Locust	Robinia pseudoacacia	Poor	
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-	1354	BL	12	Black Locust	Robinia pseudoacacia Robinia pseudoacacia	Poor	
}	1356	BL	12	Black Locust	Robinia pseudoacacia	Poor	
	1357	BX	13	Box elder	Acer negundo	Poor	
	1358	BL	13	Black Locust	Robinia pseudoacacia	Poor	
	1359	BL	8	Black Locust	Robinia pseudoacacia	Poor	
	1360	BL	7	Black Locust	Robinia pseudoacacia	Very Poor	
	1361	ВХ	35	Box elder	Acer negundo	Poor	
	1362	BX	16	Box elder	Acer negundo	Poor	
_	1363	BX	28	Box elder	Acer negundo	Poor	
_	1364	E B\M	15 9	American Elm	Ulmus americana	Poor	
-	1365 1366	BW E	19	Black Walnut American Elm	Juglans nigra Ulmus americana	Poor Poor	
	1367	BX	16	Box elder	Acer negundo	Fair	
	1368	BW	16	Black Walnut	Juglans nigra	Poor	
	1369	ВС	21	Wild Black Cherry	Prunus serotina	Poor	
	1370	ВХ	10	Box elder	Acer negundo	Poor	
	1371	BL	10	Black Locust	Robinia pseudoacacia	Poor	
	1372	BL	14	Black Locust	Robinia pseudoacacia	Poor	
_	1373	BX	35	Box elder	Acer negundo	Poor	
	1374 1375	BX BC	13 17	Box elder Wild Black Cherry	Acer negundo Prunus serotina	Poor Poor	
	1376	BX	12	Box elder	Acer negundo	Poor	
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					-		
-	1378	ВХ	6	Box elder	Acer negundo	Poor	
	1378 1379	BX BX BW E	6 8	Box elder Box elder Black Walnut American Elm	Acer negundo Acer negundo	Poor Poor	
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1323				Acer negunao	Very Poor	
	SM	21	Silver Maple	Acer saccharinum	Fair	x2
1324	SU	6	Sugar Maple	Acer saccharum	Fair	
1325	BX	6	Box elder	Acer negundo	Poor	
1326	E	25	American Elm	Ulmus americana	Fair	x1
1327	вс	12	Wild Black Cherry	Prunus serotina	Very Poor	
1328	BX	8	Box elder	Acer negundo	Poor	
1329	BX	19	Box elder	Acer negundo	Poor	
1330	BX	9	Box elder	Acer negundo	Poor	
1331	E	18	American Elm	Ulmus americana	Poor	
1332	BX	24	Box elder	Acer negundo	Poor	
1333	BX	19	Box elder	Acer negundo	Poor	
1334	BX	6	Box elder	Acer negundo	Poor	
1335	BX	6	Box elder	Acer negundo	Poor	
1336	BX	9	Box elder	Acer negundo	Poor	
1337	BX	12	Box elder	Acer negundo	Poor	x3
1338	GA	6	Green Ash	Fraxinus pennsylvanica	Poor	Λ0
1339	BX	8	Box elder	Acer negundo	Poor	x2
1340	SM	22		Acer negundo Acer saccharinum	Fair	X2
		22	Silver Maple			
1341	SM		Silver Maple	Acer saccharinum	Fair	
1342	BX	6	Box elder	Acer negundo	Poor	
1343	BX	8	Box elder	Acer negundo	Poor	_
1344	BC	9	Wild Black Cherry	Prunus serotina	Very Poor	x2
1345	E	12	American Elm	Ulmus americana	Fair	
1346	BL	8	Black Locust	Robinia pseudoacacia	Poor	
1347	BW	18	Black Walnut	Juglans nigra	Fair	
1348	BL	9	Black Locust	Robinia pseudoacacia	Poor	
1349	BL	12	Black Locust	Robinia pseudoacacia	Poor	
1350	BX	9	Box elder	Acer negundo	Poor	
1351	BX	15	Box elder	Acer negundo	Poor	
1352	BL	15	Black Locust	Robinia pseudoacacia	Poor	
1353	BL	17	Black Locust	Robinia pseudoacacia	Poor	
1354	BL	9	Black Locust	Robinia pseudoacacia	Very Poor	
1355	BL	12	Black Locust	· · · · · · · · · · · · · · · · · · ·	Poor	
1355	BL BL	12 12		Robinia pseudoacacia	Poor	
-			Black Locust	Robinia pseudoacacia		
1357	BX	13	Box elder	Acer negundo	Poor	
1358	BL	13	Black Locust	Robinia pseudoacacia	Poor	
1359	BL	8	Black Locust	Robinia pseudoacacia	Poor	
1360	BL	7	Black Locust	Robinia pseudoacacia	Very Poor	
1361	BX	35	Box elder	Acer negundo	Poor	
1362	вх	16	Box elder	Acer negundo	Poor	
1363	BX	28	Box elder	Acer negundo	Poor	
1364	E	15	American Elm	Ulmus americana	Poor	
1365	BW	9	Black Walnut	Juglans nigra	Poor	
1366	E	19	American Elm	Ulmus americana	Poor	
1367	BX	16	Box elder	Acer negundo	Fair	
1368	BW	16	Black Walnut	Juglans nigra	Poor	
1369	BC	21	Wild Black Cherry	Prunus serotina	Poor	
1370	BX	10	Box elder		Poor	
				Acer negundo		
1371	BL	10	Black Locust	Robinia pseudoacacia	Poor	
1372	BL	14	Black Locust	Robinia pseudoacacia	Poor	
1373	BX	35	Box elder	Acer negundo	Poor	
1374	BX	13	Box elder	Acer negundo	Poor	
1375	ВС	17	Wild Black Cherry	Prunus serotina	Poor	
1376	BX	12	Box elder	Acer negundo	Poor	
1377	BX	15	Box elder	Acer negundo	Fair	
1378	BX	6	Box elder	Acer negundo	Poor	
1379	BX	8	Box elder	Acer negundo	Poor	
1380	BW	16	Black Walnut	Juglans nigra	Poor	
1381	Е	8	American Elm	Ulmus americana	Poor	
1382	ВХ	6	Box elder	Acer negundo	Poor	
1383	BW	21	Black Walnut	Juglans nigra	Fair	
1384	GA	8	Green Ash	Fraxinus pennsylvanica	Poor	
1385	BX	15	Box elder	Acer negundo	Poor	
1386	BX	23	Box elder	Acer negundo	Poor	
1387	E		American Elm	Ulmus americana	Poor	
	_ ,	31			1 (7.7)	
-	RY	31 26		Acer negundo		
1388	BX BI	26	Box elder	Acer negundo Robinia pseudoacacia	Poor	
1388 1389	BL	26 6	Box elder Black Locust	Robinia pseudoacacia	Poor Poor	
1388 1389 1390	BL BL	26 6 6	Box elder Black Locust Black Locust	Robinia pseudoacacia Robinia pseudoacacia	Poor Poor Very Poor	
1388 1389 1390 1391	BL BL BL	26 6 6 7	Box elder Black Locust Black Locust Black Locust	Robinia pseudoacacia Robinia pseudoacacia Robinia pseudoacacia	Poor Poor Very Poor Very Poor	
1388 1389 1390 1391 1392	BL BL BL BL	26 6 6 7 14	Box elder Black Locust Black Locust Black Locust Black Locust	Robinia pseudoacacia Robinia pseudoacacia Robinia pseudoacacia Robinia pseudoacacia	Poor Poor Very Poor Very Poor Poor	
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1388 1389 1390 1391 1392 1393 1394 1394 1395 1396	BL BL BL BL BL BL GA	26 6 6 7 14 8 8 14	Box elder Black Locust Green Ash	Robinia pseudoacacia Fraxinus pennsylvanica	Poor Poor Very Poor Very Poor Poor Poor Poor Very Poor Very Poor	
1388 1389 1390 1391 1392 1393 1394 1395 1396 1397	BL	26 6 6 7 14 8 8 14 8	Box elder Black Locust Green Ash Black Walnut	Robinia pseudoacacia Fraxinus pennsylvanica Juglans nigra	Poor Poor Very Poor Poor Poor Poor Poor Poor Poor Poor	
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1388 1389 1390 1391 1392 1393 1394 1395 1396 1397 1398 1399	BL BN BW	26 6 6 7 14 8 8 8 14 8 8	Box elder Black Locust Black Walnut Box elder Black Walnut	Robinia pseudoacacia Fraxinus pennsylvanica Juglans nigra Acer negundo Juglans nigra	Poor Poor Very Poor Poor Poor Poor Poor Poor Poor Poor	
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Black Walnut

 1427
 BW
 7

 1428
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 9

Ulmus americana

Juglans nigra

Poor Fair Fair

GROUP	
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CAUTION!!

THE LOCATIONS AND ELEVATIONS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THIS DRAWING ARE ONLY APPROXIMATE. NO GUARANTEE IS EITHER EXPRESSED OR IMPLIED AS TO THE COMPLETENESS OR ACCURACY THEREOF. THE CONTRACTOR SHALL BE EXCLUSIVELY RESPONSIBLE FOR DETERMINING THE EXACT UTILITY LOCATIONS AND ELEVATIONS PRIOR TO THE START OF CONSTRUCTION.

LOCATION MAP

CLIENT

GENSLER
150 W JEFFERSON, SUITE 1700
DETROIT, MI 48226

PROJECT TITLE

LONG LAKE & CROOKS MASTERPLAN DEVELOPMENT LONG LAKE AND CROOKS ROAD CITY OF TROY, OAKLAND COUNTY, MICHIGAN

REVISIONS

ORIGINAL ISSUE DATE: OCTOBER 20, 2020

TREE LIST SHEET 1

PEA JOB NO.	2020-0320
P.M.	LAA
DN.	KRD
DES.	GMB
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NO.	CODE	DBH	COMMON NAME	LATIN NAME	COND	COMMENTS
001 002	BL BL	6	Black Locust Black Locust	Robinia pseudoacacia Robinia pseudoacacia	Poor Poor	
003	BL	7	Black Locust	Robinia pseudoacacia	Very Poor	
004	CT BL	28 16	Cottonwood Black Locust	Populus deltoides Robinia pseudoacacia	Fair Very Poor	dead
006	BL	16	Black Locust	Robinia pseudoacacia	Poor	x2
007	BL SM	15 20	Black Locust Silver Maple	Robinia pseudoacacia Acer saccharinum	Poor Very Poor	x1
009	SM	17	Silver Maple	Acer saccharinum	Poor	
)10	CT BX	37 8	Cottonwood Box elder	Populus deltoides Acer negundo	Fair Poor	
)12	BX	21	Box elder	Acer negundo	Poor	
)13	BX CT	6 17	Box elder Cottonwood	Acer negundo Populus deltoides	Poor Fair	
015	CT	18	Cottonwood	Populus deltoides Populus deltoides	Poor	x1
)16	BX	6	Box elder	Acer negundo	Poor	
)17	BX SM	36 15	Box elder Silver Maple	Acer negundo Acer saccharinum	Poor Poor	
)19	вх	17	Box elder	Acer negundo	Poor	
020	BX SM	10 38	Box elder Silver Maple	Acer negundo Acer saccharinum	Poor Poor	
)22	SM	23	Silver Maple	Acer saccharinum	Fair	
)23	GA BX	9	Green Ash Box elder	Fraxinus pennsylvanica Acer negundo	Poor Poor	
)25	SM	27	Silver Maple	Acer saccharinum	Fair	
26	SM	29	Silver Maple	Acer saccharinum	Fair	
)27	SM BX	9 8	Silver Maple Box elder	Acer saccharinum Acer negundo	Poor Poor	
)29	вх	17	Box elder	Acer negundo	Very Poor	
)30	E SM	8 24	American Elm Silver Maple	Ulmus americana Acer saccharinum	Poor Poor	x1
32	GA	12	Green Ash	Fraxinus pennsylvanica	Poor	<u></u>
)33	SM GA	21 7	Silver Maple Green Ash	Acer saccharinum Fraxinus pennsylvanica	Fair Poor	
)35	GA E	6	American Elm	Fraxinus pennsylvanica Ulmus americana	Poor	x1
)36	SM	34	Silver Maple	Acer saccharinum	Fair	
)37	SM E	14 12	Silver Maple American Elm	Acer saccharinum Ulmus americana	Poor Poor	
)39	E	8	American Elm	Ulmus americana	Poor	
)40)41	BX CT	9 33	Box elder Cottonwood	Acer negundo Populus deltoides	Very Poor Poor	
)42	CT	18	Cottonwood	Populus deltoides	Poor	
)43	CT CT	28 23	Cottonwood Cottonwood	Populus deltoides Populus deltoides	Poor Poor	
)45	E	13	American Elm	Ulmus americana	Poor	
)46	СТ	17	Cottonwood	Populus deltoides	Poor	
)47)48	E E	7 8	American Elm American Elm	Ulmus americana Ulmus americana	Poor Fair	
)49	E	8	American Elm	Ulmus americana	Poor	
)50)51	SM SM	13 17	Silver Maple Silver Maple	Acer saccharinum Acer saccharinum	Fair Poor	
)52	E	8	American Elm	Ulmus americana	Fair	
)53)54	E CT	14 15	American Elm Cottonwood	Ulmus americana Populus deltoides	Poor Poor	
)55	CT	13	Cottonwood	Populus deltoides	Poor	
)56	SM	9	Silver Maple	Acer saccharinum	Poor	
)57)58	CT E	31 12	Cottonwood American Elm	Populus deltoides Ulmus americana	Poor Poor	
)59	СТ	29	Cottonwood	Populus deltoides	Poor	
)60)61	E CT	9 27	American Elm Cottonwood	Ulmus americana Populus deltoides	Very Poor Fair	
062	SM	9	Silver Maple	Acer saccharinum	Very Poor	
)63)64	SM E	8 6	Silver Maple American Elm	Acer saccharinum Ulmus americana	Poor Poor	
)65	SM	13	Silver Maple	Acer saccharinum	Poor	
)66)67	E SM	6	American Elm Silver Maple	Ulmus americana Acer saccharinum	Poor Poor	x1
068	SM	17	Silver Maple	Acer saccharinum Acer saccharinum	Poor	X I
069	BWW	25	Black Willow	Salix nigra	Very Poor	
)70)71	CT CT	7 8	Cottonwood Cottonwood	Populus deltoides Populus deltoides	Poor Fair	
72	СТ	12	Cottonwood	Populus deltoides	Poor	x1
073	CT CT	6 10	Cottonwood Cottonwood	Populus deltoides Populus deltoides	Fair Poor	
75	СТ	14	Cottonwood	Populus deltoides	Poor	
)76)77	CT CT	16 10	Cottonwood Cottonwood	Populus deltoides Populus deltoides	Fair Fair	
778	E	10	American Elm	Ulmus americana	Fair	
79	GA	6	Green Ash	Fraxinus pennsylvanica	Poor	
)80)81	E SM	7 16	American Elm Silver Maple	Ulmus americana Acer saccharinum	Fair Fair	
)82	SM	27	Silver Maple	Acer saccharinum	Poor	
)83)84	SM SM	14 8	Silver Maple Silver Maple	Acer saccharinum Acer saccharinum	Poor Poor	
085	SM	13	Silver Maple	Acer saccharinum	Fair	
)86)87	GA E	6 10	Green Ash American Elm	Fraxinus pennsylvanica Ulmus americana	Poor Poor	
)88	SM	15	Silver Maple	Acer saccharinum	Fair	
)89	SM	19	Silver Maple	Acer saccharinum	Poor	
)90)91	SM E	18 6	Silver Maple American Elm	Acer saccharinum Ulmus americana	Fair Poor	
92	SM	20	Silver Maple	Acer saccharinum	Fair	
)93)94	SM E	17 12	Silver Maple American Elm	Acer saccharinum Ulmus americana	Poor Poor	
)95	SM	13	Silver Maple	Acer saccharinum	Poor	
)96	SM	7	Silver Maple	Acer saccharinum	Poor	
)97)98	TH E	7 6	Thornapple/Hawthorne American Elm	Cragaegus spp. Ulmus americana	Poor Poor	
99	SM	17	Silver Maple	Acer saccharinum	Fair	x1
100	E GA	12 10	American Elm Green Ash	Ulmus americana Fraxinus pennsylvanica	Fair Poor	
102	E	9	American Elm	Ulmus americana	Poor	
103	AP	9	Domestic Apple	Malus sylvestris	Poor	x4
104	SM	24	Silver Maple	Acer saccharinum	Poor	

1107	SM	13	Silver Maple	Acer saccharinum	Fair	
1108	GA	7	Green Ash	Fraxinus pennsylvanica	Poor	
1109	SM	14	Silver Maple	Acer saccharinum	Fair	
1110 1111	GA SM	13 23	Green Ash Silver Maple	Fraxinus pennsylvanica Acer saccharinum	Fair Poor	
1112	SM	13	Silver Maple	Acer saccharinum	Poor	
1113 1114	RM BX	10 12	Red Maple Box elder	Acer rubrum Acer negundo	Fair Poor	
1115	SM	24	Silver Maple	Acer negando Acer saccharinum	Fair	x2
1116	SM	28	Silver Maple	Acer saccharinum	Fair	
1117 1118	RM GA	8	Red Maple Green Ash	Acer rubrum Fraxinus pennsylvanica	Fair Poor	
1119	BX	21	Box elder	Acer negundo	Poor	x1
1120	BX	28	Box elder	Acer negundo	Poor	
1121 1122	BX BC	9 18	Box elder Wild Black Cherry	Acer negundo Prunus serotina	Poor Poor	
1123	BX	10	Box elder	Acer negundo	Poor	
1124	BX	21	Box elder	Acer negundo	Poor	
1125 1126	BX BX	7 8	Box elder Box elder	Acer negundo Acer negundo	Poor Poor	
1127	BX	8	Box elder	Acer negundo	Poor	х3
1128	BX	7	Box elder	Acer negundo	Poor	2
1129 1130	BX BX	9	Box elder Box elder	Acer negundo Acer negundo	Poor Poor	x2
1131	BX	10	Box elder	Acer negundo	Poor	
1132	BX	7	Box elder	Acer negundo	Poor	x1
1133 1134	BX AP	9 10	Box elder Domestic Apple	Acer negundo Malus sylvestris	Poor Poor	x1
1135	AP	7	Domestic Apple	Malus sylvestris	Poor	
1136 1137	AP AP	7	Domestic Apple	Malus sylvestris	Poor	
1137 1138	AP AP	9	Domestic Apple Domestic Apple	Malus sylvestris Malus sylvestris	Poor Poor	
1139	AP	6	Domestic Apple	Malus sylvestris	Poor	x1
1140 1141	AP BC	7	Domestic Apple	Malus sylvestris	Poor Poor	x1
1141	E BC	21 8	Wild Black Cherry American Elm	Prunus serotina Ulmus americana	Poor	
1143	Е	7	American Elm	Ulmus americana	Fair	
1144	BX	23	Box elder	Acer negundo	Poor	
1145 1146	SU BX	12 6	Sugar Maple Box elder	Acer saccharum Acer negundo	Fair Fair	
1147	BX	8	Box elder	Acer negundo	Poor	
1148	BX	6	Box elder	Acer negundo	Poor	
1149 1150	BX BX	10 6	Box elder Box elder	Acer negundo Acer negundo	Poor Poor	
1151	BX	6	Box elder	Acer negundo	Poor	
1152	BX	6	Box elder	Acer negundo	Poor	
1153 1154	BX BX	8	Box elder Box elder	Acer negundo Acer negundo	Poor Poor	
1155	BX	8	Box elder	Acer negundo	Poor	
1156	BX	7	Box elder	Acer negundo	Poor	
1157 1158	E BC	22 24	American Elm Wild Black Cherry	Ulmus americana Prunus serotina	Poor Very Poor	x1
1159	BX	8	Box elder	Acer negundo	Poor	XI
1160	BX	10	Box elder	Acer negundo	Poor	
1161 1162	BX BX	7 8	Box elder Box elder	Acer negundo Acer negundo	Poor Poor	
1163	BX	8	Box elder	Acer negundo	Poor	
1164	BX	6	Box elder	Acer negundo	Poor	
					l Door	
1165 1166	BX	9	Box elder	Acer negundo	Poor	x2
1165 1166 1167				Acer negundo Acer negundo Acer negundo	Poor	x2
1166 1167 1168	BX BX BX BX	9 12 6 18	Box elder Box elder Box elder Box elder	Acer negundo Acer negundo Acer negundo	Poor Poor Poor	x2
1166 1167 1168 1169	BX BX BX BX GA	9 12 6 18 12	Box elder Box elder Box elder Box elder Green Ash	Acer negundo Acer negundo Acer negundo Fraxinus pennsylvanica	Poor Poor Poor	x2
1166 1167 1168	BX BX BX BX	9 12 6 18	Box elder Box elder Box elder Box elder	Acer negundo Acer negundo Acer negundo	Poor Poor Poor	x2
1166 1167 1168 1169 1170 1171 1172	BX BX BX BX GA GA BX BL	9 12 6 18 12 6 6 6	Box elder Box elder Box elder Box elder Green Ash Green Ash Box elder Black Locust	Acer negundo Acer negundo Acer negundo Fraxinus pennsylvanica Fraxinus pennsylvanica Acer negundo Robinia pseudoacacia	Poor Poor Poor Very Poor Poor Poor	
1166 1167 1168 1169 1170	BX BX BX BX GA GA GA BX	9 12 6 18 12 6	Box elder Box elder Box elder Box elder Green Ash Green Ash Box elder	Acer negundo Acer negundo Acer negundo Fraxinus pennsylvanica Fraxinus pennsylvanica Acer negundo	Poor Poor Poor Very Poor Poor	x2 x3 x1
1166 1167 1168 1169 1170 1171 1172 1173	BX BX BX BX GA GA BX BL TH	9 12 6 18 12 6 6 9	Box elder Box elder Box elder Box elder Green Ash Green Ash Box elder Black Locust Thornapple/Hawthorne	Acer negundo Acer negundo Acer negundo Acer negundo Fraxinus pennsylvanica Fraxinus pennsylvanica Acer negundo Robinia pseudoacacia Cragaegus spp.	Poor Poor Poor Very Poor Poor Poor Poor	х3
1166 1167 1168 1169 1170 1171 1172 1173 1174 1175 1176	BX BX BX BX GA GA TH BL BL BX	9 12 6 18 12 6 6 9 14 8 8	Box elder Box elder Box elder Box elder Box elder Green Ash Green Ash Box elder Black Locust Thornapple/Hawthorne Black Locust Black Locust Black Locust Black Locust Black Locust	Acer negundo Acer negundo Acer negundo Acer negundo Fraxinus pennsylvanica Fraxinus pennsylvanica Acer negundo Robinia pseudoacacia Cragaegus spp. Robinia pseudoacacia Robinia pseudoacacia Acer negundo	Poor Poor Poor Poor Poor Poor Poor Poor	х3
1166 1167 1168 1169 1170 1171 1172 1173 1174 1175	BX BX BX BX GA GA TH BL BL	9 12 6 18 12 6 6 9 14 8	Box elder Box elder Box elder Box elder Box elder Green Ash Green Ash Box elder Black Locust Thornapple/Hawthorne Black Locust Black Locust	Acer negundo Acer negundo Acer negundo Acer negundo Fraxinus pennsylvanica Fraxinus pennsylvanica Acer negundo Robinia pseudoacacia Cragaegus spp. Robinia pseudoacacia Robinia pseudoacacia	Poor Poor Poor Very Poor Poor Poor Poor Poor Poor Poor Poor	х3
1166 1167 1168 1169 1170 1171 1172 1173 1174 1175 1176 1177 1178	BX BX BX BX GA GA BX BL TH BL BL BX	9 12 6 18 12 6 6 6 9 14 8 8 10 10	Box elder Box elder Box elder Box elder Box elder Green Ash Green Ash Box elder Black Locust Thornapple/Hawthorne Black Locust Black Locust Box elder Black Locust Box elder Black Locust Box elder Black Locust	Acer negundo Acer negundo Acer negundo Acer negundo Fraxinus pennsylvanica Fraxinus pennsylvanica Acer negundo Robinia pseudoacacia Cragaegus spp. Robinia pseudoacacia Robinia pseudoacacia Acer negundo Robinia pseudoacacia Acer negundo Acer negundo Acer negundo	Poor Poor Poor Poor Poor Poor Poor Poor	х3
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1166 1167 1168 1169 1170 1171 1172 1173 1174 1175 1176 1177 1178 1179 1180 1181 1182 1183 1184 1185 1186 1187 1188 1189 1190 1191 1192 1193 1194 1195 1196 1197 1198 1199 1200 1201 1202 1203 1204 1205 1206 1207 1208 1209	BX BX BX BX BX BA BA BA BA BA BA BB BB BA BB BA BB BA BB BC SM BC	9 12 6 18 12 6 6 9 14 8 8 10 10 10 12 10 13 17 9 14 6 13 12 12 7 15 21 10 14 12 17 20 12 14 16 14 8 10 6 27 8 7 7 17 13 10	Box elder Box elder Box elder Box elder Green Ash Green Ash Box elder Black Locust Thornapple/Hawthorne Black Locust Box elder Black Locust Box elder Black Locust Box elder Black Locust Box elder Box elder Box elder Black Locust Box elder Black Locust Box elder Box elder Green Ash Silver Maple Box elder Thornapple/Hawthorne Silver Maple Cottonwood American Elm American Elm Green Ash Wild Black Cherry Silver Maple Black Locust Silver Maple Cottonwood American Elm Green Ash Wild Black Cherry Silver Maple Black Locust Silver Maple Black Cherry American Elm Green Ash American Elm American Elm American Elm Sugar Maple Green Ash Green Ash Wild Black Cherry American Elm	Acer negundo Acer negundo Acer negundo Fraxinus pennsylvanica Fraxinus pennsylvanica Acer negundo Robinia pseudoacacia Cragaegus spp. Robinia pseudoacacia Robinia pseudoacacia Acer negundo Robinia pseudoacacia Acer negundo Robinia pseudoacacia Acer negundo Acer negundo Acer negundo Robinia pseudoacacia Robinia pseudoacacia Robinia pseudoacacia Robinia pseudoacacia Acer negundo Fraxinus pennsylvanica Acer saccharinum Acer negundo Cragaegus spp. Acer saccharinum Populus deltoides Ulmus americana Ulmus americana Fraxinus pennsylvanica Acer saccharinum Robinia pseudoacacia Acer saccharinum Fraxinus pennsylvanica Prunus serotina Acer saccharinum Robinia pseudoacacia Acer saccharinum Fraxinus pennsylvanica Fraxinus pennsylvanica Ulmus americana Fraxinus pennsylvanica	Poor Poor Poor Poor Poor Poor Poor Poor	x3 x1

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1214	Е	6	American Elm	Ulmus americana	Poor	
1215	GA	7	Green Ash	Fraxinus pennsylvanica	Very Poor	
1216	GA	10	Green Ash	Fraxinus pennsylvanica	Very Poor	
1217	E	14	American Elm	Ulmus americana	Fair	x1
1218	SM	14	Silver Maple	Acer saccharinum	Fair	x2
1219	GA	15	Green Ash	Fraxinus pennsylvanica	Poor	
1220	GA	9	Green Ash	Fraxinus pennsylvanica	Poor	
1221	GA	8	Green Ash	Fraxinus pennsylvanica	Very Poor	
1222	Е	8	American Elm	Ulmus americana	Poor	
1223	E	9	American Elm	Ulmus americana	Poor	
1224	E	8	American Elm	Ulmus americana	Poor	
1225	E	9	American Elm	Ulmus americana	Poor	
1226	SM	8	Silver Maple	Acer saccharinum	Fair	
1227	SM	13	Silver Maple	Acer saccharinum	Fair	
1228	GA	8	Green Ash	Fraxinus pennsylvanica	Very Poor	x1
1229	SM	10	Silver Maple	Acer saccharinum	Fair	X1
1230	GA	8	Green Ash		Fair	
			Green Ash	Fraxinus pennsylvanica		
1231	GA	6		Fraxinus pennsylvanica	Poor	
1232	BL	10	Black Locust	Robinia pseudoacacia	Poor	
1233	GA	6	Green Ash	Fraxinus pennsylvanica	Poor	
1234	E	15	American Elm	Ulmus americana	Very Poor	
1235	GA	6	Green Ash	Fraxinus pennsylvanica	Poor	
1236	GA	9	Green Ash	Fraxinus pennsylvanica	Poor	
1237	GA	6	Green Ash	Fraxinus pennsylvanica	Poor	
1238	SM	12	Silver Maple	Acer saccharinum	Poor	
1239	Е	15	American Elm	Ulmus americana	Fair	
1240	SC	13	Scotch Pine	Pinus sylvestris	Poor	
1241	BL	17	Black Locust	Robinia pseudoacacia	Poor	
1242	BL	16	Black Locust	Robinia pseudoacacia	Poor	
1243	BL	14	Black Locust	Robinia pseudoacacia	Poor	
1243	BL	6	Black Locust	Robinia pseudoacacia	Poor	
1244	BL	8	Black Locust Black Locust	Robinia pseudoacacia Robinia pseudoacacia	Poor	
1245	BL	8		· '	Poor	
			Black Locust	Robinia pseudoacacia		
1247	BL	6	Black Locust	Robinia pseudoacacia	Very Poor	
1248	BL	14	Black Locust	Robinia pseudoacacia	Poor	
1249	BL	12	Black Locust	Robinia pseudoacacia	Poor	
1250	BL	15	Black Locust	Robinia pseudoacacia	Poor	
1251	BL	14	Black Locust	Robinia pseudoacacia	Poor	
1252	BL	8	Black Locust	Robinia pseudoacacia	Poor	
1253	BL	7	Black Locust	Robinia pseudoacacia	Poor	
1254	BW	15	Black Walnut	Juglans nigra	Poor	
1255	Е	15	American Elm	Ulmus americana	Poor	
1256	BL	8	Black Locust	Robinia pseudoacacia	Poor	
1257	BL	12	Black Locust	Robinia pseudoacacia	Poor	
1258	BL	12	Black Locust	Robinia pseudoacacia	Poor	
1259	BL	12	Black Locust	Robinia pseudoacacia	Poor	
1260	BL	13	Black Locust	Robinia pseudoacacia	Poor	
1261	E	15	American Elm	Ulmus americana	Fair	
1262	BX	15	Box elder	Acer negundo	Poor	
				Robinia pseudoacacia	Poor	
1263		13	Black Locust		1 001	
1263 1264	BL	13 17	Black Locust Box elder	· ·		
1264	BL BX	17	Box elder	Acer negundo	Poor	
1264 1265	BL BX BL	17 13	Box elder Black Locust	Acer negundo Robinia pseudoacacia	Poor Poor	v1
1264 1265 1266	BL BX BL BL	17 13 15	Box elder Black Locust Black Locust	Acer negundo Robinia pseudoacacia Robinia pseudoacacia	Poor Poor Poor	x1
1264 1265 1266 1267	BL BX BL BL BX	17 13 15 18	Box elder Black Locust Black Locust Box elder	Acer negundo Robinia pseudoacacia Robinia pseudoacacia Acer negundo	Poor Poor Poor	x1
1264 1265 1266 1267 1268	BL BX BL BL BX BL	17 13 15 18 8	Box elder Black Locust Black Locust Box elder Black Locust	Acer negundo Robinia pseudoacacia Robinia pseudoacacia Acer negundo Robinia pseudoacacia	Poor Poor Poor Poor	
1264 1265 1266 1267 1268 1269	BL BX BL BL BX BL BC	17 13 15 18 8 20	Box elder Black Locust Black Locust Box elder Black Locust Wild Black Cherry	Acer negundo Robinia pseudoacacia Robinia pseudoacacia Acer negundo Robinia pseudoacacia Prunus serotina	Poor Poor Poor Poor Poor Poor	x2
1264 1265 1266 1267 1268 1269 1270	BL BX BL BL BX BL BC BC	17 13 15 18 8 20 9	Box elder Black Locust Black Locust Box elder Black Locust Wild Black Cherry Wild Black Cherry	Acer negundo Robinia pseudoacacia Robinia pseudoacacia Acer negundo Robinia pseudoacacia Prunus serotina Prunus serotina	Poor Poor Poor Poor Poor Poor	
1264 1265 1266 1267 1268 1269 1270 1271	BL BX BL BL BX BL BC BC BC	17 13 15 18 8 20 9	Box elder Black Locust Black Locust Box elder Black Locust Wild Black Cherry Wild Black Cherry Wild Black Cherry	Acer negundo Robinia pseudoacacia Robinia pseudoacacia Acer negundo Robinia pseudoacacia Prunus serotina Prunus serotina Prunus serotina	Poor Poor Poor Poor Poor Poor Poor Poor	x2
1264 1265 1266 1267 1268 1269 1270 1271 1272	BL BX BL BX BL BX BC BC BC BC	17 13 15 18 8 20 9 19	Box elder Black Locust Black Locust Box elder Black Locust Wild Black Cherry	Acer negundo Robinia pseudoacacia Robinia pseudoacacia Acer negundo Robinia pseudoacacia Prunus serotina Prunus serotina Prunus serotina Prunus serotina Prunus serotina	Poor Poor Poor Poor Poor Poor Poor Poor	x2
1264 1265 1266 1267 1268 1269 1270 1271 1272 1273	BL BX BL BL BX BL BC BC BC BC	17 13 15 18 8 20 9 19 13	Box elder Black Locust Black Locust Box elder Black Locust Wild Black Cherry Wild Black Cherry Wild Black Cherry	Acer negundo Robinia pseudoacacia Robinia pseudoacacia Acer negundo Robinia pseudoacacia Prunus serotina Prunus serotina Prunus serotina	Poor Poor Poor Poor Poor Poor Poor Poor	x2
1264 1265 1266 1267 1268 1269 1270 1271 1272	BL BX BL BX BL BX BC BC BC BC	17 13 15 18 8 20 9 19 13 13	Box elder Black Locust Black Locust Box elder Black Locust Wild Black Cherry	Acer negundo Robinia pseudoacacia Robinia pseudoacacia Acer negundo Robinia pseudoacacia Prunus serotina Prunus serotina Prunus serotina Prunus serotina Prunus serotina	Poor Poor Poor Poor Poor Poor Poor Poor	x2
1264 1265 1266 1267 1268 1269 1270 1271 1272 1273	BL BX BL BL BX BL BC BC BC BC	17 13 15 18 8 20 9 19 13	Box elder Black Locust Black Locust Box elder Black Locust Wild Black Cherry	Acer negundo Robinia pseudoacacia Robinia pseudoacacia Acer negundo Robinia pseudoacacia Prunus serotina Prunus serotina Prunus serotina Prunus serotina Prunus serotina Prunus serotina	Poor Poor Poor Poor Poor Poor Poor Very Poor	x2
1264 1265 1266 1267 1268 1269 1270 1271 1272 1273 1274	BL BX BL BL BX BL BC BC BC BC BC BC	17 13 15 18 8 20 9 19 13 13	Box elder Black Locust Black Locust Box elder Black Locust Wild Black Cherry	Acer negundo Robinia pseudoacacia Robinia pseudoacacia Acer negundo Robinia pseudoacacia Prunus serotina	Poor Poor Poor Poor Poor Poor Poor Very Poor Very Poor	x2
1264 1265 1266 1267 1268 1269 1270 1271 1272 1273 1274 1275	BL BX BL BX BL BC BC BC BC BC BC BC BC BC	17 13 15 18 8 20 9 19 13 13 12	Box elder Black Locust Black Locust Box elder Black Locust Wild Black Cherry Black Locust	Acer negundo Robinia pseudoacacia Robinia pseudoacacia Acer negundo Robinia pseudoacacia Prunus serotina Robinia pseudoacacia	Poor Poor Poor Poor Poor Poor Poor Very Poor Poor	x2
1264 1265 1266 1267 1268 1269 1270 1271 1272 1273 1274 1275 1276	BL BX BL BL BC	17 13 15 18 8 20 9 19 13 13 12 17	Box elder Black Locust Black Locust Box elder Black Locust Wild Black Cherry Black Locust Black Locust	Acer negundo Robinia pseudoacacia Robinia pseudoacacia Acer negundo Robinia pseudoacacia Prunus serotina Robinia pseudoacacia Robinia pseudoacacia	Poor Poor Poor Poor Poor Poor Poor Poor	x2
1264 1265 1266 1267 1268 1269 1270 1271 1272 1273 1274 1275 1276 1277	BL BX BL BL BC	17 13 15 18 8 20 9 19 13 13 12 17 19	Box elder Black Locust Black Locust Box elder Black Locust Wild Black Cherry Black Cherry Black Locust Black Locust	Acer negundo Robinia pseudoacacia Robinia pseudoacacia Acer negundo Robinia pseudoacacia Prunus serotina Robinia pseudoacacia Robinia pseudoacacia	Poor Poor Poor Poor Poor Poor Poor Poor	x2
1264 1265 1266 1267 1268 1269 1270 1271 1272 1273 1274 1275 1276 1277 1278	BL BX BL BX BL BC	17 13 15 18 8 20 9 19 13 13 12 17 19 19	Box elder Black Locust Black Locust Box elder Black Locust Wild Black Cherry Black Locust Black Locust Black Locust Black Locust	Acer negundo Robinia pseudoacacia Robinia pseudoacacia Acer negundo Robinia pseudoacacia Prunus serotina Prunus serotina Prunus serotina Prunus serotina Prunus serotina Prunus serotina Robinia pseudoacacia Robinia pseudoacacia Robinia pseudoacacia Robinia pseudoacacia	Poor Poor Poor Poor Poor Poor Poor Poor	x2 x1
1264 1265 1266 1267 1268 1269 1270 1271 1272 1273 1274 1275 1276 1277 1278 1279 1280	BL BX BL BL BC	17 13 15 18 8 20 9 19 13 13 12 17 19 6 15 18	Box elder Black Locust Black Locust Box elder Black Locust Wild Black Cherry Black Cherry Black Locust	Acer negundo Robinia pseudoacacia Robinia pseudoacacia Acer negundo Robinia pseudoacacia Prunus serotina Prunus serotina Prunus serotina Prunus serotina Prunus serotina Prunus serotina Robinia pseudoacacia Robinia pseudoacacia Robinia pseudoacacia Robinia pseudoacacia Robinia pseudoacacia	Poor Poor Poor Poor Poor Poor Poor Poor	x2 x1
1264 1265 1266 1267 1268 1269 1270 1271 1272 1273 1274 1275 1276 1277 1278 1279 1280 1281	BL BX BL BX BL BX BL BC	17 13 15 18 8 20 9 19 13 13 12 17 19 6 15 18 12	Box elder Black Locust Black Locust Box elder Black Locust Wild Black Cherry Black Cherry Black Locust	Acer negundo Robinia pseudoacacia Robinia pseudoacacia Acer negundo Robinia pseudoacacia Prunus serotina Robinia pseudoacacia	Poor Poor Poor Poor Poor Poor Poor Poor	x2 x1 x1 x1 x1
1264 1265 1266 1267 1268 1269 1270 1271 1272 1273 1274 1275 1276 1277 1278 1279 1280 1281 1282	BL BX BL BL BC	17 13 15 18 8 20 9 19 13 13 12 17 19 6 15 18	Box elder Black Locust Black Locust Box elder Black Locust Wild Black Cherry Black Locust	Acer negundo Robinia pseudoacacia Robinia pseudoacacia Acer negundo Robinia pseudoacacia Prunus serotina Prunus serotina Prunus serotina Prunus serotina Prunus serotina Prunus serotina Robinia pseudoacacia	Poor Poor Poor Poor Poor Poor Poor Poor	x2 x1
1264 1265 1266 1267 1268 1269 1270 1271 1272 1273 1274 1275 1276 1277 1278 1279 1280 1281 1282 1283	BL BX BL BX BL BX BL BC	17 13 15 18 8 20 9 19 13 13 12 17 19 19 6 15 18 12 12 8	Box elder Black Locust Black Locust Box elder Black Locust Wild Black Cherry Black Cherry Black Locust	Acer negundo Robinia pseudoacacia Robinia pseudoacacia Acer negundo Robinia pseudoacacia Prunus serotina Prunus serotina Prunus serotina Prunus serotina Prunus serotina Prunus serotina Robinia pseudoacacia	Poor Poor Poor Poor Poor Poor Poor Poor	x2 x1 x1 x1 x1
1264 1265 1266 1267 1268 1269 1270 1271 1272 1273 1274 1275 1276 1277 1278 1279 1280 1281 1282 1283 1284	BL BX BL BX BL BC	17 13 15 18 8 20 9 19 13 13 12 17 19 6 15 18 12 12 12 8 9	Box elder Black Locust Black Locust Box elder Black Locust Wild Black Cherry Black Cherry Black Locust	Acer negundo Robinia pseudoacacia Robinia pseudoacacia Acer negundo Robinia pseudoacacia Prunus serotina Robinia pseudoacacia Acer negundo Robinia pseudoacacia Juglans nigra	Poor Poor Poor Poor Poor Poor Poor Poor	x2 x1 x1 x1 x1
1264 1265 1266 1267 1268 1269 1270 1271 1272 1273 1274 1275 1276 1277 1278 1279 1280 1281 1282 1283 1284 1285	BL BX BL BX BL BC	17 13 15 18 8 20 9 19 13 13 12 17 19 6 15 18 12 12 12 8 9 9	Box elder Black Locust Black Locust Box elder Black Locust Wild Black Cherry Black Locust	Acer negundo Robinia pseudoacacia Robinia pseudoacacia Acer negundo Robinia pseudoacacia Prunus serotina Robinia pseudoacacia Acer negundo Acer negundo Robinia pseudoacacia Juglans nigra Juglans nigra	Poor Poor Poor Poor Poor Poor Poor Poor	x2 x1 x1 x1 x1
1264 1265 1266 1267 1268 1269 1270 1271 1272 1273 1274 1275 1276 1277 1278 1279 1280 1281 1282 1283 1284 1285 1286	BL BX BL BX BL BX BL BC	17 13 15 18 8 20 9 19 13 13 12 17 19 19 6 15 18 12 12 8 9 9 12	Box elder Black Locust Black Locust Box elder Black Locust Wild Black Cherry Black Locust Black Walnut Black Walnut	Acer negundo Robinia pseudoacacia Robinia pseudoacacia Acer negundo Robinia pseudoacacia Prunus serotina Prunus serotina Prunus serotina Prunus serotina Prunus serotina Prunus serotina Robinia pseudoacacia Acer negundo Acer negundo Robinia pseudoacacia Juglans nigra Juglans nigra Juglans nigra	Poor Poor Poor Poor Poor Poor Poor Poor	x2 x1 x1 x1 x1
1264 1265 1266 1267 1268 1269 1270 1271 1272 1273 1274 1275 1276 1277 1278 1279 1280 1281 1282 1283 1284 1285 1286 1287	BL BX BL BL BX BL BC	17 13 15 18 8 20 9 19 13 13 13 12 17 19 6 15 18 12 12 12 8 9 9 12 9	Box elder Black Locust Black Locust Box elder Black Locust Wild Black Cherry Black Locust Black Walnut Black Walnut Black Walnut Black Locust	Acer negundo Robinia pseudoacacia Robinia pseudoacacia Acer negundo Robinia pseudoacacia Prunus serotina Robinia pseudoacacia Acer negundo Acer negundo Robinia pseudoacacia Juglans nigra Juglans nigra Robinia pseudoacacia	Poor Poor Poor Poor Poor Poor Poor Poor	x2 x1 x1 x1 x1
1264 1265 1266 1267 1268 1269 1270 1271 1272 1273 1274 1275 1276 1277 1278 1279 1280 1281 1282 1283 1284 1285 1286 1287 1288	BL BX BL BX BL BX BL BC BC BC BC BC BC BC BL	17 13 15 18 8 20 9 19 13 13 13 12 17 19 6 15 18 12 12 12 8 9 9 12 9	Box elder Black Locust Black Locust Box elder Black Locust Wild Black Cherry Black Locust Black Valnut Black Walnut Black Walnut Black Locust	Acer negundo Robinia pseudoacacia Robinia pseudoacacia Acer negundo Robinia pseudoacacia Prunus serotina Robinia pseudoacacia Acer negundo Acer negundo Robinia pseudoacacia Juglans nigra Juglans nigra Robinia pseudoacacia Robinia pseudoacacia	Poor Poor Poor Poor Poor Poor Poor Poor	x2 x1 x1 x1 x1
1264 1265 1266 1267 1268 1269 1270 1271 1272 1273 1274 1275 1276 1277 1278 1279 1280 1281 1282 1283 1284 1285 1286 1287 1288 1289	BL BX BL BX BL BC	17 13 15 18 8 20 9 19 13 13 12 17 19 19 6 15 18 12 12 8 9 9 12 9 9 13	Box elder Black Locust Black Locust Box elder Black Locust Wild Black Cherry Black Locust Black Walnut Black Walnut Black Locust Black Locust Black Locust	Acer negundo Robinia pseudoacacia Robinia pseudoacacia Acer negundo Robinia pseudoacacia Prunus serotina Prunus serotina Prunus serotina Prunus serotina Prunus serotina Prunus serotina Robinia pseudoacacia Acer negundo Acer negundo Robinia pseudoacacia Juglans nigra Juglans nigra Robinia pseudoacacia Robinia pseudoacacia Robinia pseudoacacia	Poor Poor Poor Poor Poor Poor Poor Poor	x2 x1 x1 x1 x1
1264 1265 1266 1267 1268 1269 1270 1271 1272 1273 1274 1275 1276 1277 1278 1279 1280 1281 1282 1283 1284 1285 1286 1287 1288 1289 1290	BL BX BL BX BL BC	17 13 15 18 8 20 9 19 13 13 13 12 17 19 19 6 15 18 12 12 8 9 9 12 9 9 13 8	Box elder Black Locust Black Locust Box elder Black Locust Wild Black Cherry Black Locust Black Valnut Black Walnut Black Locust Black Locust Black Locust Black Locust	Acer negundo Robinia pseudoacacia Robinia pseudoacacia Acer negundo Robinia pseudoacacia Prunus serotina Robinia pseudoacacia Acer negundo Acer negundo Robinia pseudoacacia Juglans nigra Juglans nigra Juglans nigra Robinia pseudoacacia Robinia pseudoacacia Robinia pseudoacacia Robinia pseudoacacia Robinia pseudoacacia Robinia pseudoacacia	Poor Poor Poor Poor Poor Poor Poor Poor	x2 x1 x1 x1 x1
1264 1265 1266 1267 1268 1269 1270 1271 1272 1273 1274 1275 1276 1277 1278 1279 1280 1281 1282 1283 1284 1285 1285 1286 1287 1288 1289 1290 1291	BL BX BL BX BL BX BL BC BC BC BC BC BC BC BC BC BL	17 13 15 18 8 20 9 19 13 13 13 12 17 19 6 15 18 12 12 12 8 9 9 12 9 9 13 8 9	Box elder Black Locust Black Locust Box elder Black Locust Wild Black Cherry Black Locust Black Walnut Black Walnut Black Locust Black Locust Black Locust Black Locust Black Locust Black Locust	Acer negundo Robinia pseudoacacia Robinia pseudoacacia Acer negundo Robinia pseudoacacia Prunus serotina Robinia pseudoacacia Acer negundo Acer negundo Acer negundo Robinia pseudoacacia Juglans nigra Juglans nigra Juglans nigra Robinia pseudoacacia Robinia pseudoacacia Robinia pseudoacacia Robinia pseudoacacia Robinia pseudoacacia Robinia pseudoacacia	Poor Poor Poor Poor Poor Poor Poor Poor	x2 x1 x1 x1 x1
1264 1265 1266 1267 1268 1269 1270 1271 1272 1273 1274 1275 1276 1277 1278 1279 1280 1281 1282 1283 1284 1285 1286 1287 1288 1289 1290 1291 1292	BL BX BL BX BL BC BC BC BC BC BC BC BL BW BW BW BW BL	17 13 15 18 8 20 9 19 13 13 13 12 17 19 6 15 18 12 12 12 8 9 9 12 9 9 13 8 9 8	Box elder Black Locust Black Locust Box elder Black Locust Wild Black Cherry Black Locust Black Walnut Black Walnut Black Walnut Black Walnut Black Locust Black Locust Black Locust Black Locust Black Walnut Black Walnut Black Locust Black Locust Black Locust Black Locust Black Locust Black Locust	Acer negundo Robinia pseudoacacia Robinia pseudoacacia Acer negundo Robinia pseudoacacia Prunus serotina Robinia pseudoacacia Acer negundo Acer negundo Robinia pseudoacacia Juglans nigra Juglans nigra Robinia pseudoacacia	Poor Poor Poor Poor Poor Poor Poor Poor	x2 x1 x1 x1 x1
1264 1265 1266 1267 1268 1269 1270 1271 1272 1273 1274 1275 1276 1277 1278 1279 1280 1281 1282 1283 1284 1285 1286 1287 1288 1289 1290 1291 1292 1293	BL BX BL BX BL BC BC BC BC BC BC BC BL	17 13 15 18 8 20 9 19 13 13 13 12 17 19 19 6 15 18 12 12 8 9 9 12 9 9 13 8 9 9 11 13 8 9 9 11 13 13 14 15 15 18 16 17 17 19 19 19 19 19 19 10 10 10 10 10 10 10 10 10 10 10 10 10	Box elder Black Locust Black Locust Box elder Black Locust Wild Black Cherry Black Locust Black Cherry Black Locust Black Locust Black Locust Black Locust Black Locust Black Walnut Black Walnut Black Locust	Acer negundo Robinia pseudoacacia Robinia pseudoacacia Acer negundo Robinia pseudoacacia Prunus serotina Robinia pseudoacacia Acer negundo Acer negundo Robinia pseudoacacia Juglans nigra Juglans nigra Juglans nigra Robinia pseudoacacia	Poor Poor Poor Poor Poor Poor Poor Poor	x2 x1 x1 x1 x1
1264 1265 1266 1267 1268 1269 1270 1271 1272 1273 1274 1275 1276 1277 1278 1279 1280 1281 1282 1283 1284 1285 1285 1286 1287 1288 1289 1290 1291 1292 1293 1294	BL BX BL BX BL BX BL BC BC BC BC BC BC BC BL BW BW BW BW BW BW BL	17 13 15 18 8 20 9 19 13 13 13 12 17 19 6 15 18 12 12 17 19 9 6 15 18 12 12 8 9 9 12 9 9 13 8 9 10 11	Box elder Black Locust Black Locust Box elder Black Locust Wild Black Cherry Black Locust Black Walnut Black Walnut Black Cocust Black Locust	Acer negundo Robinia pseudoacacia Robinia pseudoacacia Acer negundo Robinia pseudoacacia Prunus serotina Robinia pseudoacacia Acer negundo Acer negundo Acer negundo Robinia pseudoacacia Juglans nigra Juglans nigra Juglans nigra Robinia pseudoacacia	Poor Poor Poor Poor Poor Poor Poor Poor	x2 x1 x1 x1 x1
1264 1265 1266 1267 1268 1269 1270 1271 1272 1273 1274 1275 1276 1277 1278 1279 1280 1281 1282 1283 1284 1285 1286 1287 1288 1289 1290 1291 1292 1293 1294 1295	BL BX BL BX BL BC BC BC BC BC BC BC BL BW BW BW BW BW BL	17 13 15 18 8 20 9 19 13 13 13 12 17 19 6 15 18 12 12 12 8 9 9 12 9 9 13 8 9 10 11 10	Box elder Black Locust Black Locust Box elder Black Locust Wild Black Cherry Black Locust Black Cherry Wild Black Locust Black Locust Black Locust Black Locust Black Locust Black Cocust Black Locust	Acer negundo Robinia pseudoacacia Robinia pseudoacacia Acer negundo Robinia pseudoacacia Prunus serotina Robinia pseudoacacia Juglans nigra Juglans nigra Juglans nigra Robinia pseudoacacia	Poor Poor Poor Poor Poor Poor Poor Poor	x2 x1 x1 x1 x1
1264 1265 1266 1267 1268 1269 1270 1271 1272 1273 1274 1275 1276 1277 1278 1279 1280 1281 1282 1283 1284 1285 1286 1287 1288 1289 1290 1291 1292 1293 1294 1296	BL BX BL BX BL BC BC BC BC BC BC BC BC BL BW BW BW BW BW BW BW BU	17 13 15 18 8 20 9 19 13 13 13 12 17 19 19 6 15 18 12 12 8 9 9 12 9 9 13 8 9 9 11 10 10	Box elder Black Locust Black Locust Box elder Black Locust Wild Black Cherry Black Locust Black Cherry Black Locust Black Locust Black Locust Black Locust Black Locust Black Walnut Black Walnut Black Locust	Acer negundo Robinia pseudoacacia Robinia pseudoacacia Acer negundo Robinia pseudoacacia Prunus serotina Robinia pseudoacacia Juglans nigra Juglans nigra Juglans nigra Robinia pseudoacacia	Poor Poor Poor Poor Poor Poor Poor Poor	x2 x1 x1 x1 x1
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1430	BL	7	Black Locust	Robinia pseudoacacia	Poor	1
1431	СТ	30	Cottonwood	Populus deltoides	Poor	
1432 1433	CT CT	39 23	Cottonwood Cottonwood	Populus deltoides Populus deltoides	Fair Poor	
1434	CT	23	Cottonwood	Populus deltoides	Poor	
1435 1436	BC BL	8	Wild Black Cherry Black Locust	Prunus serotina Robinia pseudoacacia	Poor Poor	
1437	BL	8	Black Locust	Robinia pseudoacacia	Poor	
1438 1439	BL BX	9	Black Locust Box elder	Robinia pseudoacacia Acer negundo	Poor Poor	
1440	BW	9	Black Walnut	Juglans nigra	Poor	
1441 1442	E BW	8 18	American Elm Black Walnut	Ulmus americana Juglans nigra	Poor Fair	
1443	BL	7	Black Locust	Robinia pseudoacacia	Poor	
1444 1445	TH BL	7 8	Thornapple/Hawthorne Black Locust	Cragaegus spp. Robinia pseudoacacia	Poor Poor	
1446	BX	6	Box elder	Acer negundo	Poor	
1447 1448	BL E	16 9	Black Locust American Elm	Robinia pseudoacacia Ulmus americana	Very Poor Poor	
1449	Шι	16	American Elm	Ulmus americana	Poor	no tag in h20, move E
1450 1451	E BL	9 10	American Elm Black Locust	Ulmus americana Robinia pseudoacacia	Poor Poor	x1
1452	BC	6	Wild Black Cherry	Prunus serotina	Poor	
1453 1454	BL BL	8	Black Locust Black Locust	Robinia pseudoacacia Robinia pseudoacacia	Poor Poor	
1455	В	8	Basswood	Tilia americana	Poor	
1456 1457	BW BL	22 7	Black Walnut Black Locust	Juglans nigra Robinia pseudoacacia	Fair Poor	
1458	BL	8	Black Locust	Robinia pseudoacacia	Poor	4
1459 1460	BL B	10 7	Black Locust Basswood	Robinia pseudoacacia Tilia americana	Poor Poor	x1
1461	BL	6	Black Locust	Robinia pseudoacacia	Poor	
1462 1463	BL B	8	Black Locust Basswood	Robinia pseudoacacia Tilia americana	Poor Fair	
1464	BL	9	Black Locust	Robinia pseudoacacia	Poor	
1465 1466	BL BL	6 9	Black Locust Black Locust	Robinia pseudoacacia Robinia pseudoacacia	Poor Poor	
1467	BL	8	Black Locust	Robinia pseudoacacia	Poor	
1468 1469	BL BL	6 8	Black Locust Black Locust	Robinia pseudoacacia Robinia pseudoacacia	Poor Poor	
1470	BL	7	Black Locust	Robinia pseudoacacia	Poor	
1471 1472	BL BL	10 12	Black Locust Black Locust	Robinia pseudoacacia Robinia pseudoacacia	Poor Poor	
1473	BL	6	Black Locust	Robinia pseudoacacia	Poor	
1474 1475	BL BL	8 10	Black Locust Black Locust	Robinia pseudoacacia Robinia pseudoacacia	Poor Poor	
1476	BL	13	Black Locust	Robinia pseudoacacia	Poor	
1477 1478	BL BL	8 15	Black Locust Black Locust	Robinia pseudoacacia Robinia pseudoacacia	Poor Fair	
1479	BL	8	Black Locust	Robinia pseudoacacia	Poor	
1480 1481	BL BL	9	Black Locust Black Locust	Robinia pseudoacacia Robinia pseudoacacia	Poor Poor	
1482	BL	13	Black Locust	Robinia pseudoacacia	Poor	
1483 1484	BL BL	6 6	Black Locust Black Locust	Robinia pseudoacacia Robinia pseudoacacia	Poor Poor	
1485	BL	13	Black Locust	Robinia pseudoacacia	Poor	x1
1486 1487	BL BL	6 15	Black Locust Black Locust	Robinia pseudoacacia Robinia pseudoacacia	Poor Poor	
1488	BC	8	Wild Black Cherry	Prunus serotina	Poor	
1489 1490	BL BL	8 6	Black Locust Black Locust	Robinia pseudoacacia Robinia pseudoacacia	Poor Poor	
1491	BL	12	Black Locust	Robinia pseudoacacia	Poor	
1492 1493	BL BL	6 6	Black Locust Black Locust	Robinia pseudoacacia Robinia pseudoacacia	Poor Poor	
1494	BL	9	Black Locust	Robinia pseudoacacia	Poor	
1495 1496	BL YB	9 10	Black Locust Yellow Birch	Robinia pseudoacacia Betula alleghaniensis	Poor Fair	
1497	BL	7	Black Locust	Robinia pseudoacacia	Poor	
1498 1499	BL BL	15 12	Black Locust Black Locust	Robinia pseudoacacia Robinia pseudoacacia	Poor Poor	
1500	В	12	Basswood	Tilia americana	Poor	
1501 1502	BC BL	15 9	Wild Black Cherry Black Locust	Prunus serotina	Poor Poor	
1502	BL	9	Black Locust	Robinia pseudoacacia Robinia pseudoacacia	Poor	
1504 1505	BL BL	12 12	Black Locust	Robinia pseudoacacia	Poor Poor	
1505 1506	BL	12 16	Black Locust Black Locust	Robinia pseudoacacia Robinia pseudoacacia	Poor Poor	
1507 1508	BL BL	14 14	Black Locust	Robinia pseudoacacia	Poor Poor	
1508 1509	BL BL	14 12	Black Locust Black Locust	Robinia pseudoacacia Robinia pseudoacacia	Poor	
1510 1511	BL	9	Black Locust	Robinia pseudoacacia	Poor	
1511 1512	BL BL	6 10	Black Locust Black Locust	Robinia pseudoacacia Robinia pseudoacacia	Poor Poor	
1513	BL	14	Black Locust	Robinia pseudoacacia	Poor	
1514 1515	BL BL	10 9	Black Locust Black Locust	Robinia pseudoacacia Robinia pseudoacacia	Poor Very Poor	
1516	BL	13	Black Locust	Robinia pseudoacacia	Poor	
1517 1518	BL BL	12 7	Black Locust Black Locust	Robinia pseudoacacia Robinia pseudoacacia	Poor Poor	
1519	BL	9	Black Locust	Robinia pseudoacacia	Poor	
1520 1521	BL BL	6 7	Black Locust Black Locust	Robinia pseudoacacia Robinia pseudoacacia	Poor Poor	
1522	E	8	American Elm	Ulmus americana	Poor	
1523 1524	BL BL	8 10	Black Locust Black Locust	Robinia pseudoacacia Robinia pseudoacacia	Poor Poor	
1525	E	13	American Elm	Ulmus americana	Poor	
1526 1527	BL BL	13 12	Black Locust Black Locust	Robinia pseudoacacia Robinia pseudoacacia	Poor Poor	
1528	BL	15	Black Locust	Robinia pseudoacacia	Poor	
1529 1530	BX BL	7 17	Box elder Black Locust	Acer negundo Robinia pseudoacacia	Poor Poor	
1531	BL	13	Black Locust	Robinia pseudoacacia	Poor	
1532 1533	E BL	9	American Elm Black Locust	Ulmus americana Robinia pseudoacacia	Fair Poor	
1534	BL	12	Black Locust	Robinia pseudoacacia	Poor	
1535 1536	BL BL	8 13	Black Locust Black Locust	Robinia pseudoacacia Robinia pseudoacacia	Poor Poor	
1537	BL	9	Black Locust	Robinia pseudoacacia	Poor	
1538 1539	BL E	6 13	Black Locust American Elm	Robinia pseudoacacia Ulmus americana	Poor Poor	
1539 1540	BL	13 13	American Eim Black Locust	Robinia pseudoacacia	Poor	
1541	BL	16 18	Black Locust	Robinia pseudoacacia	Poor	x1
1542	BL	18	Black Locust	Robinia pseudoacacia	Poor	
1543	BL	14	Black Locust	Robinia pseudoacacia	Very Poor	

Robinia pseudoacacia

1544 BL 17

1545	BL	12	Black Locust	Robinia pseudoacacia	Poor	
1546 1547	BL BL	10 9	Black Locust Black Locust	Robinia pseudoacacia Robinia pseudoacacia	Poor Poor	
1548	BL	8	Black Locust	Robinia pseudoacacia	Poor	
1549	BL	12	Black Locust	Robinia pseudoacacia	Poor	
1550 1551	BL BL	6 7	Black Locust Black Locust	Robinia pseudoacacia	Poor Poor	
1552	BL	6	Black Locust	Robinia pseudoacacia Robinia pseudoacacia	Poor	
1553	BL	12	Black Locust	Robinia pseudoacacia	Poor	x2
1554	BL	8	Black Locust	Robinia pseudoacacia	Poor	
1555 1556	BL E	13 13	Black Locust American Elm	Robinia pseudoacacia Ulmus americana	Poor Poor	
1557	BL	14	Black Locust	Robinia pseudoacacia	Poor	
1558	BL	13	Black Locust	Robinia pseudoacacia	Poor	
559	BL	15	Black Locust	Robinia pseudoacacia	Poor	
1560 1561	BL BL	17 9	Black Locust Black Locust	Robinia pseudoacacia Robinia pseudoacacia	Poor Poor	
1562	BL	7	Black Locust	Robinia pseudoacacia	Poor	
563	BL	19	Black Locust	Robinia pseudoacacia	Poor	
564 565	BL BL	9 17	Black Locust Black Locust	Robinia pseudoacacia	Poor Poor	
566	E	8	American Elm	Robinia pseudoacacia Ulmus americana	Poor	
567	BL	16	Black Locust	Robinia pseudoacacia	Poor	
568	BL	8	Black Locust	Robinia pseudoacacia	Poor	
569 570	BL BL	6 8	Black Locust Black Locust	Robinia pseudoacacia Robinia pseudoacacia	Poor Poor	
571	BL	8	Black Locust	Robinia pseudoacacia	Poor	
572	BX	6	Box elder	Acer negundo	Poor	
573	BL	9	Black Locust	Robinia pseudoacacia	Poor	
574 575	BL BL	12 13	Black Locust Black Locust	Robinia pseudoacacia Robinia pseudoacacia	Poor Poor	
576	BL	14	Black Locust	Robinia pseudoacacia	Poor	
577	BX	12	Box elder	Acer negundo	Poor	
578 579	BL SM	7	Black Locust	Robinia pseudoacacia Acer saccharinum	Poor Fair	
579 580	SM BL	14	Silver Maple Black Locust	Robinia pseudoacacia	Poor	
581	BL	15	Black Locust	Robinia pseudoacacia	Poor	
582	BL	12	Black Locust	Robinia pseudoacacia	Poor	
583 584	BL BW	7 16	Black Locust Black Walnut	Robinia pseudoacacia Juglans nigra	Poor Fair	
585	BL	8	Black Locust	Robinia pseudoacacia	Poor	
586	BL	8	Black Locust	Robinia pseudoacacia	Poor	
587	BL	13	Black Locust	Robinia pseudoacacia	Poor	
588 589	BL BL	13 8	Black Locust Black Locust	Robinia pseudoacacia Robinia pseudoacacia	Poor Poor	
590	BL	10	Black Locust	Robinia pseudoacacia	Poor	
591	BL	6	Black Locust	Robinia pseudoacacia	Poor	
592	BL	9	Black Locust	Robinia pseudoacacia	Poor	
593 594	BL E	10 8	Black Locust American Elm	Robinia pseudoacacia Ulmus americana	Poor Poor	
595	SM	14	Silver Maple	Acer saccharinum	Fair	
596	E	16	American Elm	Ulmus americana	Very Poor	
597	BL	16	Black Locust	Robinia pseudoacacia	Poor	
598 599	E BX	21 10	American Elm Box elder	Ulmus americana Acer negundo	Poor Poor	x1
600	BW	7	Black Walnut	Juglans nigra	Poor	
601	BW	10	Black Walnut	Juglans nigra	Fair	
602	SM	12 15	Silver Maple	Acer saccharinum	Poor	
604	E BL	17	American Elm Black Locust	Ulmus americana Robinia pseudoacacia	Fair Poor	
1605	BL	16	Black Locust	Robinia pseudoacacia	Poor	
1606	BL	8	Black Locust	Robinia pseudoacacia	Very Poor	
607 608	BL BL	9 8	Black Locust Black Locust	Robinia pseudoacacia Robinia pseudoacacia	Poor Poor	
609	E	16	American Elm	Ulmus americana	Poor	
610	SM	16	Silver Maple	Acer saccharinum	Fair	
611	BL	6	Black Locust	Robinia pseudoacacia	Poor	
612 613	SM BX	16 6	Silver Maple Box elder	Acer saccharinum Acer negundo	Fair Poor	
614	SM	16	Silver Maple	Acer saccharinum	Fair	
615	SM	6	Silver Maple	Acer saccharinum	Fair	
616	TH	10	Thornapple/Hawthorne	Crataegus spp.	Poor	7
617 618	TH BW	<u>8</u> 21	Thornapple/Hawthorne Black Walnut	Crataegus spp. Juglans nigra	Poor Fair	x7
619	BW	18	Black Walnut	Juglans nigra		
620	BW		Diack Walliat	Jugians nigra	Fair	
621		22	Black Walnut	Juglans nigra	Fair	
n ,	E B\//	16	Black Walnut American Elm	Juglans nigra Ulmus americana	Fair Fair	
	BW BW		Black Walnut	Juglans nigra Ulmus americana Juglans nigra	Fair	
623 624	BW	16 22	Black Walnut American Elm Black Walnut	Juglans nigra Ulmus americana	Fair Fair Fair	
623 624 625	BW BW BW	16 22 19 19 9	Black Walnut American Elm Black Walnut Black Walnut Black Walnut Black Walnut	Juglans nigra Ulmus americana Juglans nigra Juglans nigra Juglans nigra Juglans nigra Juglans nigra	Fair Fair Fair Fair Fair	
623 624 625 626	BW BW BW BW	16 22 19 19 9 18	Black Walnut American Elm Black Walnut Black Walnut Black Walnut Black Walnut Black Walnut	Juglans nigra Ulmus americana Juglans nigra Juglans nigra Juglans nigra Juglans nigra Juglans nigra Juglans nigra	Fair Fair Fair Fair Fair Fair	
623 624 625 626 627	BW BW BW	16 22 19 19 9	Black Walnut American Elm Black Walnut Black Walnut Black Walnut Black Walnut	Juglans nigra Ulmus americana Juglans nigra Juglans nigra Juglans nigra Juglans nigra Juglans nigra	Fair Fair Fair Fair Fair	
623 624 625 626 627 628	BW BW BW BW BW	16 22 19 19 9 18 15	Black Walnut American Elm Black Walnut	Juglans nigra Ulmus americana Juglans nigra	Fair Fair Fair Fair Fair Fair Fair Fair	
623 624 625 626 627 628 629	BW BW BW BW BW BW BW BW BW	16 22 19 19 9 18 15 9 26	Black Walnut American Elm Black Walnut	Juglans nigra Ulmus americana Juglans nigra	Fair Fair Fair Fair Fair Fair Fair Pair Fair Fair Fair Fair Fair Fair	
623 624 625 626 627 628 629 630 631	BW BW BW BW BW BW BW BW	16 22 19 19 9 18 15 9	Black Walnut American Elm Black Walnut	Juglans nigra Ulmus americana Juglans nigra Robinia pseudoacacia	Fair Fair Fair Fair Fair Fair Fair Foor Poor	
623 624 625 626 627 628 629 630 631 632	BW	16 22 19 19 9 18 15 9 26 16 8	Black Walnut American Elm Black Walnut	Juglans nigra Ulmus americana Juglans nigra	Fair Fair Fair Fair Fair Fair Fair Foor Poor Fair Very Poor	
623 624 625 626 627 628 629 630 631 632 633 634	BW B	16 22 19 19 9 18 15 9 26 16 8 6	Black Walnut American Elm Black Walnut Black Locust Black Locust Black Locust Black Walnut	Juglans nigra Ulmus americana Juglans nigra Robinia pseudoacacia Robinia pseudoacacia Juglans nigra	Fair Fair Fair Fair Fair Fair Fair Fair	
623 624 625 626 627 628 629 630 631 632 633 634 635	BW B	16 22 19 19 9 18 15 9 26 16 8 6 8	Black Walnut American Elm Black Walnut Black Locust Black Locust Black Locust Black Walnut Black Walnut	Juglans nigra Ulmus americana Juglans nigra Robinia pseudoacacia Robinia pseudoacacia Robinia pseudoacacia Juglans nigra Juglans nigra Juglans nigra	Fair Fair Fair Fair Fair Fair Fair Fair	
623 624 625 626 627 628 629 630 631 632 633 634 635 636	BW B	16 22 19 19 9 18 15 9 26 16 8 6	Black Walnut American Elm Black Walnut Black Locust Black Locust Black Locust Black Walnut	Juglans nigra Ulmus americana Juglans nigra Robinia pseudoacacia Robinia pseudoacacia Juglans nigra	Fair Fair Fair Fair Fair Fair Fair Fair	
623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638	BW BU BL BL BL BU	16 22 19 19 9 18 15 9 26 16 8 6 8 14 17 9	Black Walnut American Elm Black Walnut Black Locust Black Locust Black Locust Black Walnut Black Locust Black Walnut Black Locust Black Locust Black Locust Black Walnut Black Walnut Black Walnut	Juglans nigra Ulmus americana Juglans nigra Robinia pseudoacacia Robinia pseudoacacia Juglans nigra Juglans nigra Robinia pseudoacacia Robinia pseudoacacia Robinia pseudoacacia Juglans nigra Juglans nigra Robinia pseudoacacia	Fair Fair Fair Fair Fair Fair Fair Fair	
623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639	BW BU BL BL BL BL BL BL BL BL BL	16 22 19 19 9 18 15 9 26 16 8 6 8 14 17 9 9	Black Walnut American Elm Black Walnut Black Woust Black Locust Black Locust Black Locust Black Locust Black Coust Black Walnut Black Walnut Black Locust Black Locust Black Locust Black Locust Black Locust	Juglans nigra Ulmus americana Juglans nigra Robinia pseudoacacia Robinia pseudoacacia Juglans nigra Juglans nigra Robinia pseudoacacia	Fair Fair Fair Fair Fair Fair Fair Fair	
623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640	BW BW BW BW BW BW BW BW BW BU BL	16 22 19 19 9 18 15 9 26 16 8 6 8 14 17 9 9 15 16 13	Black Walnut American Elm Black Walnut Black Wolnut Black Locust Black Locust Black Locust Black Locust Black Cocust Black Walnut Black Walnut Black Locust	Juglans nigra Ulmus americana Juglans nigra Robinia pseudoacacia Robinia pseudoacacia Juglans nigra Juglans nigra Robinia pseudoacacia	Fair Fair Fair Fair Fair Fair Fair Fair	
623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641	BW BU BL BL BL BL BL BL BL BL BL	16 22 19 19 9 18 15 9 26 16 8 6 8 14 17 9 9	Black Walnut American Elm Black Walnut Black Woust Black Locust Black Locust Black Locust Black Locust Black Coust Black Walnut Black Walnut Black Locust Black Locust Black Locust Black Locust Black Locust	Juglans nigra Ulmus americana Juglans nigra Robinia pseudoacacia Robinia pseudoacacia Juglans nigra Juglans nigra Robinia pseudoacacia	Fair Fair Fair Fair Fair Fair Fair Fair	
623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643	BW BL	16 22 19 19 9 18 15 9 26 16 8 6 8 14 17 9 9 15 16 13 9 17 23	Black Walnut American Elm Black Walnut Black Locust Black Locust Black Locust Black Locust Black Cocust Black Locust	Juglans nigra Ulmus americana Juglans nigra Robinia pseudoacacia Robinia pseudoacacia Juglans nigra Juglans nigra Robinia pseudoacacia	Fair Fair Fair Fair Fair Fair Fair Fair	
623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644	BW BL	16 22 19 19 9 18 15 9 26 16 8 6 8 14 17 9 9 15 16 13 9 17 23 8	Black Walnut American Elm Black Walnut Black Locust Black Locust Black Locust Black Locust Black Cocust Black Locust	Juglans nigra Ulmus americana Juglans nigra Robinia pseudoacacia Robinia pseudoacacia Juglans nigra Juglans nigra Robinia pseudoacacia	Fair Fair Fair Fair Fair Fair Fair Fair	
623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645	BW BL	16 22 19 19 9 18 15 9 26 16 8 6 8 14 17 9 9 15 16 13 9 17 23 8 12	Black Walnut American Elm Black Walnut Black Locust Black Locust Black Locust Black Locust Black Cocust Black Locust	Juglans nigra Ulmus americana Juglans nigra Robinia pseudoacacia Robinia pseudoacacia Juglans nigra Juglans nigra Robinia pseudoacacia	Fair Fair Fair Fair Fair Fair Fair Fair	
623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646	BW BL	16 22 19 19 9 18 15 9 26 16 8 6 8 14 17 9 9 15 16 13 9 17 23 8	Black Walnut American Elm Black Walnut Black Locust Black Locust Black Locust Black Locust Black Cocust Black Locust	Juglans nigra Ulmus americana Juglans nigra Robinia pseudoacacia Robinia pseudoacacia Juglans nigra Juglans nigra Robinia pseudoacacia	Fair Fair Fair Fair Fair Fair Fair Fair	
623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 640 641 642 643 644 645 646 647 648	BW BL	16 22 19 19 9 18 15 9 26 16 8 6 8 14 17 9 9 15 16 13 9 17 23 8 12 14 14 14	Black Walnut American Elm Black Walnut Black Locust Black Locust Black Locust Black Locust Black Cocust Black Locust	Juglans nigra Ulmus americana Juglans nigra Robinia pseudoacacia	Fair Fair Fair Fair Fair Fair Fair Fair	
623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 640 641 642 643 644 645 646 647 648 649	BW BL	16 22 19 19 9 18 15 9 26 16 8 6 8 14 17 9 9 15 16 13 9 17 23 8 12 14 14 18 17	Black Walnut American Elm Black Walnut Black Locust Black Locust Black Locust Black Locust Black Locust Black Cocust Black Locust	Juglans nigra Ulmus americana Juglans nigra Robinia pseudoacacia	Fair Fair Fair Fair Fair Fair Fair Fair	x1
623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 640 641 642 643 644 645 646 647 648 649 649 649	BW BW BW BW BW BW BW BW BW BU BL	16 22 19 19 9 18 15 9 26 16 8 6 8 14 17 9 15 16 13 9 17 23 8 12 14 14 18 17 22	Black Walnut American Elm Black Walnut Black Locust Black Locust Black Locust Black Locust Black Locust Black Cocust Black Locust	Juglans nigra Ulmus americana Juglans nigra Robinia pseudoacacia	Fair Fair Fair Fair Fair Fair Fair Fair	x1
623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 640 641 642 643 644 645 646 647 648 649 650 650 651	BW BL	16 22 19 19 9 18 15 9 26 16 8 6 8 14 17 9 9 15 16 13 9 17 23 8 12 14 14 18 17	Black Walnut American Elm Black Walnut Black Locust Black Locust Black Locust Black Locust Black Locust Black Cocust Black Locust	Juglans nigra Ulmus americana Juglans nigra Robinia pseudoacacia	Fair Fair Fair Fair Fair Fair Fair Fair	x1
623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653	BW BL	16 22 19 19 9 18 15 9 26 16 8 6 8 14 17 9 9 15 16 13 9 17 23 8 12 14 14 18 17 22 9	Black Walnut American Elm Black Walnut Black Locust	Juglans nigra Ulmus americana Juglans nigra Robinia pseudoacacia	Fair Fair Fair Fair Fair Fair Fair Fair	x1
623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654	BW BL	16 22 19 19 9 18 15 9 26 16 8 6 8 14 17 9 9 15 16 13 9 17 23 8 12 14 14 18 17 22 9 13 8 8	Black Walnut American Elm Black Walnut Black Locust	Juglans nigra Ulmus americana Juglans nigra Robinia pseudoacacia	Fair Fair Fair Fair Fair Fair Fair Fair	x1
623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655	BW BL	16 22 19 19 9 18 15 9 26 16 8 6 8 14 17 9 9 15 16 13 9 17 23 8 12 14 14 14 18 17 22 9 13 8 7	Black Walnut American Elm Black Walnut Black Locust	Juglans nigra Ulmus americana Juglans nigra Robinia pseudoacacia	Fair Fair Fair Fair Fair Fair Fair Fair	x1
1622	BW BL	16 22 19 19 9 18 15 9 26 16 8 6 8 14 17 9 9 15 16 13 9 17 23 8 12 14 14 18 17 22 9 13 8 8	Black Walnut American Elm Black Walnut Black Locust	Juglans nigra Ulmus americana Juglans nigra Robinia pseudoacacia	Fair Fair Fair Fair Fair Fair Fair Fair	x1
623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656	BW BL	16 22 19 19 9 18 15 9 26 16 8 6 8 14 17 9 15 16 13 9 17 23 8 12 14 14 18 17 22 9	Black Walnut American Elm Black Walnut Black Locust	Juglans nigra Ulmus americana Juglans nigra Robinia pseudoacacia	Fair Fair Fair Fair Fair Fair Fair Fair	x1

4000			I			
1660 1661	SM SM	6 17	Silver Maple Silver Maple	Acer saccharinum Acer saccharinum	Fair Fair	
1662	E	12	American Elm	Ulmus americana	Poor	
1663 1664	SM GA	15 13	Silver Maple Green Ash	Acer saccharinum	Fair	
1665	E	8	American Elm	Fraxinus pennsylvanica Ulmus americana	Poor Poor	
1666	E	17	American Elm	Ulmus americana	Poor	
1667 1668	TH GA	6 7	Thornapple/Hawthorne Green Ash	Crataegus spp. Fraxinus pennsylvanica	Poor Poor	
1669	SM	17	Silver Maple	Acer saccharinum	Poor	
1670	SM	18	Silver Maple	Acer saccharinum	Poor	
1671 1672	SM SM	18 17	Silver Maple Silver Maple	Acer saccharinum Acer saccharinum	Poor Poor	
1673	SM	25	Silver Maple	Acer saccharinum	Poor	
1674 1675	BX GA	8	Box elder Green Ash	Acer negundo	Poor Very Poor	
1676	GA GA	6	Green Ash	Fraxinus pennsylvanica Fraxinus pennsylvanica	Fair	
1677	NM	8	Norway Maple	Acer platanoides	Fair	
1678 1679	BS BX	10	Blue Spruce Box elder	Picea pungens Acer negundo	Fair Poor	
1680	BX	9	Box elder	Acer negundo	Poor	
1681	BX	12	Box elder	Acer negundo	Poor	
1682 1683	BX BX	15 8	Box elder Box elder	Acer negundo Acer negundo	Poor Very Poor	
1684	BX	14	Box elder	Acer negundo	Very Poor	
1685 1686	BX CT	6 24	Box elder Cottonwood	Acer negundo Populus deltoides	Poor Poor	
1687	SM	16	Silver Maple	Acer saccharinum	Fair	x3
1688	GA	6	Green Ash	Fraxinus pennsylvanica	Very Poor	
1689 1690	BW BW	8	Black Walnut Black Walnut	Juglans nigra Juglans nigra	Fair Fair	
1691	BS	14	Blue Spruce	Picea pungens	Good	
1692	BS	13	Blue Spruce	Picea pungens	Good	
1693 1694	BS BS	14	Blue Spruce Blue Spruce	Picea pungens Picea pungens	Good Good	
1695	BW	9	Black Walnut	Juglans nigra	Poor	
1696	BL	23	Black Locust	Robinia pseudoacacia	Fair	
1697 1698	BL BL	15 22	Black Locust Black Locust	Robinia pseudoacacia Robinia pseudoacacia	Fair Poor	
1699	BL	9	Black Locust	Robinia pseudoacacia	Fair	
1700 1701	BW BL	24 8	Black Valnut	Juglans nigra	Fair	
1701	BW	15	Black Locust Black Walnut	Robinia pseudoacacia Juglans nigra	Poor Fair	
1703	BW	26	Black Walnut	Juglans nigra	Fair	
1704 1705	BW TH	10	Black Walnut Thornapple/Hawthorne	Juglans nigra Crataegus spp.	Very Poor Poor	x1
1706	BW	12	Black Walnut	Juglans nigra	Poor	
1707	BW	25	Black Walnut	Juglans nigra	Fair	
1708 1709	BW BW	9	Black Walnut Black Walnut	Juglans nigra Juglans nigra	Poor Poor	
1710	BW	15	Black Walnut	Juglans nigra	Poor	
1711 1712	BW BW	30 25	Black Walnut Black Walnut	Juglans nigra Juglans nigra	Fair Fair	
1713	BL	19	Black Locust	Robinia pseudoacacia	Poor	
1714	BL	16	Black Locust	Robinia pseudoacacia	Poor	
1715 1716	BL BL	26 15	Black Locust Black Locust	Robinia pseudoacacia Robinia pseudoacacia	Poor Fair	
1717	BL	24	Black Locust	Robinia pseudoacacia	Poor	
1718	В	13	Basswood	Tilia americana	Poor	
1719 1720	BL BL	36 14	Black Locust Black Locust	Robinia pseudoacacia Robinia pseudoacacia	Poor Poor	
1721	BW	7	Black Walnut	Juglans nigra	Poor	
1722 1723	BW BW	9	Black Walnut Black Walnut	Juglans nigra Juglans nigra	Poor Poor	
1724	BW	12	Black Walnut	Juglans nigra	Poor	x1
1725	BX	6	Box elder	Acer negundo	Poor	
1726 1727	BW BW	19	Black Walnut Black Walnut	Juglans nigra Juglans nigra	Poor Poor	
1728	BW	12	Black Walnut	Juglans nigra	Poor	
1729	BW	14	Black Walnut	Juglans nigra	Poor	
1730 1731	BX BW	8 18	Box elder Black Walnut	Acer negundo Juglans nigra	Fair Poor	
1732	BL	16	Black Locust	Robinia pseudoacacia	Poor	
1733 1734	BW BW	13 6	Black Walnut Black Walnut	Juglans nigra	Poor Poor	
1734	BW	12	Black Walnut	Juglans nigra Juglans nigra	Poor	
1736	BW	8	Black Walnut	Juglans nigra	Poor	
1737 1738	BW BW	13 14	Black Walnut Black Walnut	Juglans nigra Juglans nigra	Poor Poor	
1739	BL	8	Black Locust	Robinia pseudoacacia	Poor	
1740	BL	14	Black Locust	Robinia pseudoacacia	Poor	
1741 1742	BW BW	9	Black Walnut Black Walnut	Juglans nigra Juglans nigra	Poor Poor	
1743	BW	7	Black Walnut	Juglans nigra	Poor	
1744 1745	BW BW	15 6	Black Walnut Black Walnut	Juglans nigra Juglans nigra	Poor Poor	
1745	BC	12	Wild Black Cherry	Prunus serotina	Poor	x1
1747	BW	8	Black Walnut	Juglans nigra	Poor	
1748 1749	BX TH	7	Box elder Thornapple/Hawthorne	Acer negundo Crataegus spp.	Very Poor Poor	x1
1750	BW	16	Black Walnut	Juglans nigra	Poor	
1751	BW	10	Black Walnut	Juglans nigra	Poor	
1752 1753	BW BW	9 12	Black Walnut Black Walnut	Juglans nigra Juglans nigra	Poor Very Poor	
1754	BW	9	Black Walnut	Juglans nigra	Poor	
1755 1756	BW	10	Black Walnut	Juglans nigra	Poor	
1756 1757	BW BW	6 9	Black Walnut Black Walnut	Juglans nigra Juglans nigra	Poor Poor	
1758	BW	8	Black Walnut	Juglans nigra	Fair	
1759 1760	GA BX	12 14	Green Ash Box elder	Fraxinus pennsylvanica Acer negundo	Poor Fair	
1761	BL	18	Black Locust	Robinia pseudoacacia	Poor	
1762	BL	19	Black Locust	Robinia pseudoacacia	Poor	
1763 1764	E BW	13	American Elm Black Walnut	Ulmus americana Juglans nigra	Poor Fair	
1765	BL	7	Black Locust	Robinia pseudoacacia	Poor	
1766 1767	GA BY	7	Green Ash	Fraxinus pennsylvanica	Very Poor	x2
1767 1768	BX SM	10 13	Box elder Silver Maple	Acer negundo Acer saccharinum	Poor Poor	x4
1769	SH	12	Shagbark Hickory	Carya ovata	Poor	
1770 1771	BW BL	16 24	Black Walnut Black Locust	Juglans nigra Robinia pseudoacacia	Fair Poor	
1771	TH	9	Thornapple/Hawthorne	Crataegus spp.	Poor	
1773	BW	14	Black Walnut	Juglans nigra	Poor	
1774	BL	9	Black Locust	Robinia pseudoacacia	Poor	

1775 1776	BL BW	10 12	Black Locust Black Walnut	Robinia pseudoacacia Juglans nigra	Poor Fair	
1777	BL	10	Black Locust	Robinia pseudoacacia	Poor	
1778	В	13	Basswood	Tilia americana	Fair	
1779 1780	B BL	12 8	Basswood Black Locust	Tilia americana Robinia pseudoacacia	Fair Poor	
1781	BL	6	Black Locust	Robinia pseudoacacia	Poor	
1782	TH	6	Thornapple/Hawthorne	Crataegus spp.	Poor	
1783 1784	BL B	16 16	Black Locust Basswood	Robinia pseudoacacia Tilia americana	Fair Fair	x1
1785	BL	18	Black Locust	Robinia pseudoacacia	Poor	X I
1786	Е	15	American Elm	Ulmus americana	Poor	
1787	BL	28	Black Locust	Robinia pseudoacacia	Poor	0
1788 1789	B BL	14 10	Basswood Black Locust	Tilia americana Robinia pseudoacacia	Fair Poor	x2
1790	В	15	Basswood	Tilia americana	Poor	x1
1791	TH	7	Thornapple/Hawthorne	Crataegus spp.	Poor	
1792 1793	SU BL	13 19	Sugar Maple Black Locust	Acer saccharum Robinia pseudoacacia	Fair Fair	
1794	BL	17	Black Locust	Robinia pseudoacacia	Very Poor	dead
1795	E	17	American Elm	Ulmus americana	Poor	
1796 1797	BW BL	18 18	Black Walnut Black Locust	Juglans nigra Robinia pseudoacacia	Fair Fair	
1798	В	7	Basswood	Tilia americana	Poor	
1799	BL	10	Black Locust	Robinia pseudoacacia	Poor	
1800 1801	BL SU	6 7	Black Locust	Robinia pseudoacacia Acer saccharum	Poor Poor	
1802	BL	13	Sugar Maple Black Locust	Robinia pseudoacacia	Poor	
1803	BL	17	Black Locust	Robinia pseudoacacia	Poor	
1804	BL	1	Black Locust	Robinia pseudoacacia	Poor	
1805 1806	BW BL	9 16	Black Walnut Black Locust	Juglans nigra Robinia pseudoacacia	Fair Poor	
1807	WA	6	White Ash	Fraxinus americana	Poor	
1808	BL	8	Black Locust	Robinia pseudoacacia	Poor	
1809 1810	BL BL	10 8	Black Locust Black Locust	Robinia pseudoacacia Robinia pseudoacacia	Poor Poor	
1811	BL	27	Black Locust	Robinia pseudoacacia Robinia pseudoacacia	Poor	x1
1812	SM	18	Silver Maple	Acer saccharinum	Poor	
1813 1814	SM GA	16 9	Silver Maple Green Ash	Acer saccharinum	Poor	
1814 1815	GA GA	13	Green Ash Green Ash	Fraxinus pennsylvanica Fraxinus pennsylvanica	Poor Very Poor	
1816	GA	8	Green Ash	Fraxinus pennsylvanica	Poor	
1817	GA	9	Green Ash	Fraxinus pennsylvanica	Poor	
1818 1819	GA GA	13 14	Green Ash Green Ash	Fraxinus pennsylvanica Fraxinus pennsylvanica	Poor Poor	
1820	GA	8	Green Ash	Fraxinus pennsylvanica	Very Poor	
1821	GA	10	Green Ash	Fraxinus pennsylvanica	Poor	x1
1822 1823	BL BL	6 16	Black Locust Black Locust	Robinia pseudoacacia Robinia pseudoacacia	Poor Poor	
1824	BL	13	Black Locust	Robinia pseudoacacia	Poor	
1825	TH	7	Thornapple/Hawthorne	Crataegus spp.	Poor	x3
1826 1827	BL BL	7 8	Black Locust Black Locust	Robinia pseudoacacia Robinia pseudoacacia	Poor Poor	
1828	BL	12	Black Locust	Robinia pseudoacacia	Poor	
1829	BL	13	Black Locust	Robinia pseudoacacia	Poor	
1830 1831	GA BW	15 16	Green Ash Black Walnut	Fraxinus pennsylvanica	Poor Poor	
1832	BL	13	Black Locust	Juglans nigra Robinia pseudoacacia	Poor	
1833	BW	14	Black Walnut	Juglans nigra	Poor	
1834	BL	12	Black Locust	Robinia pseudoacacia	Poor	
1835 1836	BL BW	13 13	Black Locust Black Walnut	Robinia pseudoacacia Juglans nigra	Poor Fair	
1837	BW	8	Black Walnut	Juglans nigra	Poor	
1838	В	16	Basswood	Tilia americana	Poor	x1
1839 1840	B BL	6 9	Basswood Black Locust	Tilia americana Robinia pseudoacacia	Poor Poor	x1
1841	BL	13	Black Locust	Robinia pseudoacacia	Poor	χ.
1842	BL	13	Black Locust	Robinia pseudoacacia	Poor	
1843 1844	BL BL	14 6	Black Locust Black Locust	Robinia pseudoacacia Robinia pseudoacacia	Poor Poor	
1845	BL	7	Black Locust	Robinia pseudoacacia	Very Poor	
1846	BL	13	Black Locust	Robinia pseudoacacia	Poor	
1847 1848	BL BL	10 8	Black Locust Black Locust	Robinia pseudoacacia Robinia pseudoacacia	Poor Poor	
1849	BL	16	Black Locust Black Locust	Robinia pseudoacacia Robinia pseudoacacia	Poor	
1850	BL	10	Black Locust	Robinia pseudoacacia	Poor	
1851 1852	TH BL	8 16	Thornapple/Hawthorne Black Locust	Crataegus spp.	Poor Poor	x2
1852 1853	BL BL	16 13	Black Locust Black Locust	Robinia pseudoacacia Robinia pseudoacacia	Poor	
1854	BL	13	Black Locust	Robinia pseudoacacia	Poor	
1855	BL	9	Black Locust	Robinia pseudoacacia	Poor	
1856 1857	BL B	12 10	Black Locust Basswood	Robinia pseudoacacia Tilia americana	Poor Poor	
1858	BW	14	Black Walnut	Juglans nigra	Fair	
1859	GA B\A/	7	Green Ash	Fraxinus pennsylvanica	Poor	_
1860 1861	BW BL	14 7	Black Walnut Black Locust	Juglans nigra Robinia pseudoacacia	Poor Poor	
1862	BW	14	Black Walnut	Juglans nigra	Poor	
1863	BL	6	Black Locust	Robinia pseudoacacia	Poor	<u> </u>
1864 1865	BL BL	17 15	Black Locust Black Locust	Robinia pseudoacacia Robinia pseudoacacia	Very Poor Poor	
1866	BL	26	Black Locust	Robinia pseudoacacia	Poor	
1867	BL	6	Black Locust	Robinia pseudoacacia	Poor	
1868 1869	BL SM	13 19	Black Locust Silver Maple	Robinia pseudoacacia Acer saccharinum	Poor Fair	x2
1870	BL	12	Black Locust	Robinia pseudoacacia	Poor	^_
1871	BL	29	Black Locust	Robinia pseudoacacia	Poor	_
1872 1873	BL BL	10 13	Black Locust	Robinia pseudoacacia	Poor Poor	
1873 1874	BL	13 8	Black Locust Black Locust	Robinia pseudoacacia Robinia pseudoacacia	Poor	
1875	BL	12	Black Locust	Robinia pseudoacacia	Poor	
1876	В	12	Basswood	Tilia americana	Poor	x1
1877 1878	B BL	10 17	Basswood Black Locust	Tilia americana Robinia pseudoacacia	Poor Poor	x1
1879	BL	16	Black Locust	Robinia pseudoacacia	Poor	
1880	BL	16	Black Locust	Robinia pseudoacacia	Poor	
1881 1882	BW B	19 7	Black Walnut Basswood	Juglans nigra Tilia americana	Fair Poor	
	GA GA	14	Green Ash	Fraxinus pennsylvanica	Poor	
1883	BL	14	Black Locust	Robinia pseudoacacia	Poor	
1884				Juglans nigra	Fair	
1884 1885	BW	21	Black Walnut	+		
1884		21 9 8	Black Walnut Basswood Black Locust	Tilia americana Robinia pseudoacacia	Poor Very Poor	





CAUTION!!

THE LOCATIONS AND ELEVATIONS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THIS DRAWING ARE ONLY APPROXIMATE. NO GUARANTEE IS EITHER EXPRESSED OR IMPLIED AS TO THE COMPLETENESS OR ACCURACY THEREOF. THE CONTRACTOR SHALL BE EXCLUSIVELY RESPONSIBLE FOR DETERMINING THE EXACT UTILITY LOCATIONS AND ELEVATIONS PRIOR TO THE START OF CONSTRUCTION. **LOCATION MAP**

CLIENT GENSLER
150 W JEFFERSON, SUITE 1700
DETROIT, MI 48226

PROJECT TITLE

LONG LAKE & CROOKS MASTERPLAN DEVELOPMENT LONG LAKE AND CROOKS ROAD CITY OF TROY, OAKLAND COUNTY, MICHIGAN

ORIGINAL ISSUE DATE: OCTOBER 20, 2020

TREE LIST SHEET 2

2020-0320 PEA JOB NO. LAA KRD GMB DES. DRAWING NUMBER:

1891	BL	13	Black Locust	Robinia pseudoacacia	Poor	
1691	GA	9	Green Ash	Fraxinus pennsylvanica	Poor	
1892	В	6 15	Basswood	Tilia americana	Poor	
1893 1894	GA B	16	Green Ash Basswood	Fraxinus pennsylvanica Tilia americana	Poor Poor	
1895	В	6	Basswood	Tilia americana	Poor	
1896 1897	B BL	28 6	Basswood Black Locust	Tilia americana Robinia pseudoacacia	Fair Poor	
1898	В	6	Basswood	Tilia americana	Poor	
1899	В	16	Basswood	Tilia americana	Fair	x1
1900 1901	BL B	13 8	Black Locust Basswood	Robinia pseudoacacia Tilia americana	Poor Poor	
1902	В	15	Basswood	Tilia americana	Poor	
1903	SU	17	Sugar Maple	Acer saccharum	Fair	
1904 1905	BL BL	12 13	Black Locust Black Locust	Robinia pseudoacacia Robinia pseudoacacia	Poor Poor	
1906	SM	17	Silver Maple	Acer saccharinum	Poor	
1907 1908	BL BW	13 7	Black Locust Black Walnut	Robinia pseudoacacia Juglans nigra	Poor Poor	
1909	BW	8	Black Walnut	Juglans nigra	Poor	
1910	BL	14	Black Locust	Robinia pseudoacacia	Poor	
1911 1912	SM BL	12 15	Silver Maple Black Locust	Acer saccharinum Robinia pseudoacacia	Poor Poor	
1913	SM	25	Silver Maple	Acer saccharinum	Fair	x2
1914	E	8	American Elm	Ulmus americana	Very Poor	
1915 1916	BL BL	13 14	Black Locust Black Locust	Robinia pseudoacacia Robinia pseudoacacia	Poor Poor	
1917	SM	9	Silver Maple	Acer saccharinum	Poor	x4
1918	SM	28	Silver Maple	Acer saccharinum	Fair	
1919 1920	BL BL	7 13	Black Locust Black Locust	Robinia pseudoacacia Robinia pseudoacacia	Poor Poor	
1921	BL	7	Black Locust	Robinia pseudoacacia	Poor	
1922 1923	BL TH	7 8	Black Locust Thomapple/Hawthome	Robinia pseudoacacia Crataegus spp.	Very Poor Poor	
1923	В	14	Basswood	Tilia americana	Poor	
1925	BL	9	Black Locust	Robinia pseudoacacia	Poor	
1926 1927	B B	13 6	Basswood Basswood	Tilia americana Tilia americana	Fair Fair	
1928	BL	8	Black Locust	Robinia pseudoacacia	Poor	
1929	SU	22	Sugar Maple	Acer saccharum	Fair	
1930 1931	B BL	6 15	Basswood Black Locust	Tilia americana Robinia pseudoacacia	Poor Poor	
1932	В	6	Basswood	Tilia americana	Poor	
1933 1934	BL B	9	Black Locust Basswood	Robinia pseudoacacia Tilia americana	Poor Fair	x1
1935	В	15	Basswood	Tilia americana	Fair	×1
1936	BW	24	Black Walnut	Juglans nigra	Fair	
1937 1938	BW BL	7 10	Black Walnut Black Locust	Juglans nigra Robinia pseudoacacia	Poor Poor	
1939	BL	21	Black Locust	Robinia pseudoacacia	Poor	
1940	BL	13	Black Locust	Robinia pseudoacacia	Poor	
1941 1942	SM BW	16 14	Silver Maple Black Walnut	Acer saccharinum Juglans nigra	Fair Fair	
1943	BL	15	Black Locust	Robinia pseudoacacia	Poor	
1944 1945	B E	14 17	Basswood American Elm	Tilia americana Ulmus americana	Poor Very Poor	
1946	E	6	American Elm	Ulmus americana	Poor	
1947	BL	13	Black Locust	Robinia pseudoacacia	Poor	
1948 1949	BL TH	14 8	Black Locust Thornapple/Hawthorne	Robinia pseudoacacia Crataegus spp.	Poor Poor	x4
1950	BW	12	Black Walnut	Juglans nigra	Fair	X-1
1951	BW	16	Black Walnut	Juglans nigra	Poor	
1952 1953	BL BW	14 17	Black Locust Black Walnut	Robinia pseudoacacia Juglans nigra	Poor Poor	
1954	NM	8	Norway Maple	Acer platanoides	Poor	
1955 1956	BW BW	17 19	Black Walnut Black Walnut	Juglans nigra Juglans nigra	Poor Poor	x1
1957	BL	14	Black Locust	Robinia pseudoacacia	Poor	XI
1958	TH	6	Thornapple/Hawthorne	Crataegus spp.	Poor	
1959 1960	B BL	21 12	Basswood Black Locust	Tilia americana Robinia pseudoacacia	Poor Poor	x1
1961	TH	10	Thornapple/Hawthorne	Crataegus spp.	Poor	x1
1962	В	10	Basswood	Tilia americana	Fair	
1963 1964	BW BL	15 15	Black Walnut Black Locust	Juglans nigra Robinia pseudoacacia	Fair Poor	
1965	В	8	Basswood	Tilia americana	Poor	
1966	BL	18	Black Locust	Robinia pseudoacacia	Poor	
1967 1968	BL BL	10 15	Black Locust Black Locust	Robinia pseudoacacia Robinia pseudoacacia	Poor Poor	
1969	BL	20	Black Locust	Robinia pseudoacacia	Poor	
1970	BL B	15 8	Black Locust Basswood	Robinia pseudoacacia Tilia americana	Poor Poor	
1071 '		0	Dasswood	тша атпепсапа		
1971 1972	BW	16	Black Walnut	Juglans nigra	Poor	
1972 1973	BL	9	Black Locust	Robinia pseudoacacia	Poor	
1972 1973 1974	BL BL	9 16	Black Locust Black Locust	Robinia pseudoacacia Robinia pseudoacacia	Poor Poor	
1972 1973	BL	9	Black Locust	Robinia pseudoacacia	Poor	
1972 1973 1974 1975 1976	BL BL E GA BL	9 16 17 12 12	Black Locust Black Locust American Elm Green Ash Black Locust	Robinia pseudoacacia Robinia pseudoacacia Ulmus americana Fraxinus pennsylvanica Robinia pseudoacacia	Poor Poor Very Poor Very Poor Poor	
1972 1973 1974 1975 1976	BL BL E GA	9 16 17 12	Black Locust Black Locust American Elm Green Ash	Robinia pseudoacacia Robinia pseudoacacia Ulmus americana Fraxinus pennsylvanica	Poor Poor Very Poor Very Poor	
1972 1973 1974 1975 1976 1977	BL BL E GA BL BL	9 16 17 12 12 13	Black Locust Black Locust American Elm Green Ash Black Locust Black Locust	Robinia pseudoacacia Robinia pseudoacacia Ulmus americana Fraxinus pennsylvanica Robinia pseudoacacia	Poor Poor Very Poor Very Poor Poor Poor	
1972 1973 1974 1975 1976 1977 1978 1979 1980	BL BL GA BL BL BL BL BL	9 16 17 12 12 13 6 8	Black Locust Black Locust American Elm Green Ash Black Locust Black Locust Black Locust Black Locust Black Locust Black Locust	Robinia pseudoacacia Robinia pseudoacacia Ulmus americana Fraxinus pennsylvanica Robinia pseudoacacia Robinia pseudoacacia Robinia pseudoacacia Robinia pseudoacacia Robinia pseudoacacia	Poor Poor Very Poor Very Poor Poor Poor Poor Poor Poor Poor	
1972 1973 1974 1975 1976 1977 1978 1979 1980 1981	BL BL E GA BL BL BL	9 16 17 12 12 13 6	Black Locust Black Locust American Elm Green Ash Black Locust Black Locust Black Locust Black Locust	Robinia pseudoacacia Robinia pseudoacacia Ulmus americana Fraxinus pennsylvanica Robinia pseudoacacia Robinia pseudoacacia Robinia pseudoacacia Robinia pseudoacacia	Poor Poor Very Poor Very Poor Poor Poor Poor Poor	
1972 1973 1974 1975 1976 1977 1978 1979 1980 1981 1982 1983 1984	BL BL GA BL BL BL BL BL BL BL BL BL	9 16 17 12 12 13 6 8 18 12 8	Black Locust Black Locust American Elm Green Ash Black Locust American Elm	Robinia pseudoacacia Robinia pseudoacacia Ulmus americana Fraxinus pennsylvanica Robinia pseudoacacia Juglans nigra Robinia pseudoacacia Ulmus americana	Poor Poor Very Poor Very Poor Poor Poor Poor Poor Poor Poor Poor	
1972 1973 1974 1975 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985	BL BL GA BL	9 16 17 12 12 13 6 8 18 12 8 8	Black Locust Black Locust American Elm Green Ash Black Locust Black Locust Black Locust Black Locust Black Locust Black Locust American Elm Black Locust	Robinia pseudoacacia Robinia pseudoacacia Ulmus americana Fraxinus pennsylvanica Robinia pseudoacacia Robinia pseudoacacia Robinia pseudoacacia Robinia pseudoacacia Robinia pseudoacacia Robinia pseudoacacia Juglans nigra Robinia pseudoacacia Ulmus americana Robinia pseudoacacia	Poor Poor Very Poor Very Poor Poor Poor Poor Poor Poor Poor Poor	
1972 1973 1974 1975 1976 1977 1978 1979 1980 1981 1982 1983 1984	BL BL GA BL BL BL BL BL BL BL BL BL	9 16 17 12 12 13 6 8 18 12 8	Black Locust Black Locust American Elm Green Ash Black Locust American Elm	Robinia pseudoacacia Robinia pseudoacacia Ulmus americana Fraxinus pennsylvanica Robinia pseudoacacia Juglans nigra Robinia pseudoacacia Ulmus americana	Poor Poor Very Poor Very Poor Poor Poor Poor Poor Poor Poor Poor	
1972 1973 1974 1975 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985 1986 1987	BL BL GA BL	9 16 17 12 12 13 6 8 18 12 8 8 10 16 12 15	Black Locust Black Locust American Elm Green Ash Black Locust American Elm Black Locust Black Locust Black Locust Black Locust Black Locust	Robinia pseudoacacia Robinia pseudoacacia Ulmus americana Fraxinus pennsylvanica Robinia pseudoacacia Robinia pseudoacacia Robinia pseudoacacia Robinia pseudoacacia Robinia pseudoacacia Robinia pseudoacacia Juglans nigra Robinia pseudoacacia Ulmus americana Robinia pseudoacacia Robinia pseudoacacia Robinia pseudoacacia Robinia pseudoacacia	Poor Poor Very Poor Very Poor Poor Poor Poor Poor Poor Poor Poor	
1972 1973 1974 1975 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985 1986 1987 1988	BL BL GA BL	9 16 17 12 12 13 6 8 18 12 8 8 10 16 12 15 6	Black Locust Black Locust American Elm Green Ash Black Locust Black Cocust Black Locust American Elm Black Locust	Robinia pseudoacacia Robinia pseudoacacia Ulmus americana Fraxinus pennsylvanica Robinia pseudoacacia Robinia pseudoacacia Robinia pseudoacacia Robinia pseudoacacia Robinia pseudoacacia Robinia pseudoacacia Juglans nigra Robinia pseudoacacia Ulmus americana Robinia pseudoacacia Robinia pseudoacacia Robinia pseudoacacia Robinia pseudoacacia Robinia pseudoacacia	Poor Poor Very Poor Very Poor Poor Poor Poor Poor Poor Poor Poor	
1972 1973 1974 1975 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985 1986 1987	BL BL GA BL	9 16 17 12 12 13 6 8 18 12 8 8 10 16 12 15	Black Locust Black Locust American Elm Green Ash Black Locust American Elm Black Locust Black Locust Black Locust Black Locust Black Locust	Robinia pseudoacacia Robinia pseudoacacia Ulmus americana Fraxinus pennsylvanica Robinia pseudoacacia Robinia pseudoacacia Robinia pseudoacacia Robinia pseudoacacia Robinia pseudoacacia Robinia pseudoacacia Juglans nigra Robinia pseudoacacia Ulmus americana Robinia pseudoacacia Robinia pseudoacacia Robinia pseudoacacia Robinia pseudoacacia	Poor Poor Very Poor Very Poor Poor Poor Poor Poor Poor Poor Poor	
1972 1973 1974 1975 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985 1986 1987 1988 1989 1990	BL BL GA BL	9 16 17 12 12 13 6 8 18 12 8 8 10 16 12 15 6 8	Black Locust Black Locust American Elm Green Ash Black Locust American Elm Black Locust	Robinia pseudoacacia Robinia pseudoacacia Ulmus americana Fraxinus pennsylvanica Robinia pseudoacacia Robinia pseudoacacia Robinia pseudoacacia Robinia pseudoacacia Robinia pseudoacacia Robinia pseudoacacia Juglans nigra Robinia pseudoacacia Ulmus americana Robinia pseudoacacia	Poor Poor Very Poor Very Poor Poor Poor Poor Poor Poor Poor Poor	
1972 1973 1974 1975 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993	BL BL GA BL	9 16 17 12 12 13 6 8 18 12 8 8 10 16 12 15 6 8 9	Black Locust Black Locust American Elm Green Ash Black Locust American Elm Black Locust	Robinia pseudoacacia Robinia pseudoacacia Ulmus americana Fraxinus pennsylvanica Robinia pseudoacacia Robinia pseudoacacia Robinia pseudoacacia Robinia pseudoacacia Robinia pseudoacacia Robinia pseudoacacia Ulmus americana Robinia pseudoacacia	Poor Poor Very Poor Very Poor Poor Poor Poor Poor Poor Poor Poor	
1972 1973 1974 1975 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985 1986 1987 1988 1989 1990	BL BL GA BL	9 16 17 12 12 13 6 8 18 12 8 8 10 16 12 15 6 8	Black Locust Black Locust American Elm Green Ash Black Locust American Elm Black Locust	Robinia pseudoacacia Robinia pseudoacacia Ulmus americana Fraxinus pennsylvanica Robinia pseudoacacia Robinia pseudoacacia Robinia pseudoacacia Robinia pseudoacacia Robinia pseudoacacia Robinia pseudoacacia Juglans nigra Robinia pseudoacacia Ulmus americana Robinia pseudoacacia	Poor Poor Very Poor Very Poor Poor Poor Poor Poor Poor Poor Poor	
1972 1973 1974 1975 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996	BL BL GA BL	9 16 17 12 12 13 6 8 18 12 8 8 10 16 12 15 6 8 9 11 9	Black Locust Black Locust American Elm Green Ash Black Locust American Elm Black Locust	Robinia pseudoacacia Robinia pseudoacacia Ulmus americana Fraxinus pennsylvanica Robinia pseudoacacia Robinia pseudoacacia Robinia pseudoacacia Robinia pseudoacacia Robinia pseudoacacia Robinia pseudoacacia Ulmus americana Robinia pseudoacacia Ulmus americana	Poor Poor Very Poor Very Poor Poor Poor Poor Poor Poor Poor Poor	
1972 1973 1974 1975 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995	BL BL GA BL	9 16 17 12 12 13 6 8 18 12 8 8 10 16 12 15 6 8 9 11 9	Black Locust Black Locust American Elm Green Ash Black Locust American Elm Black Locust	Robinia pseudoacacia Robinia pseudoacacia Ulmus americana Fraxinus pennsylvanica Robinia pseudoacacia Robinia pseudoacacia Robinia pseudoacacia Robinia pseudoacacia Robinia pseudoacacia Robinia pseudoacacia Juglans nigra Robinia pseudoacacia Ulmus americana Robinia pseudoacacia	Poor Poor Very Poor Very Poor Poor Poor Poor Poor Poor Poor Poor	
1972 1973 1974 1975 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985 1986 1987 1988 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999	BL BL GA BL	9 16 17 12 12 13 6 8 18 12 8 8 10 16 12 15 6 8 9 11 9 13 8 13 14 13 8	Black Locust Black Locust American Elm Green Ash Black Locust American Elm Black Locust American Elm Black Locust Black Locust Black Locust	Robinia pseudoacacia Robinia pseudoacacia Ulmus americana Fraxinus pennsylvanica Robinia pseudoacacia Ulmus americana Robinia pseudoacacia	Poor Poor Very Poor Very Poor Poor Poor Poor Poor Poor Poor Poor	
1972 1973 1974 1975 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985 1986 1987 1988 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000	BL B	9 16 17 12 12 13 6 8 18 12 8 8 10 16 12 15 6 8 9 11 9 13 8 13 14 13 8	Black Locust Black Locust American Elm Green Ash Black Locust American Elm Black Locust	Robinia pseudoacacia Robinia pseudoacacia Ulmus americana Fraxinus pennsylvanica Robinia pseudoacacia Ulmus americana Robinia pseudoacacia	Poor Poor Very Poor Very Poor Poor Poor Poor Poor Poor Poor Poor	
1972 1973 1974 1975 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998	BL BL GA BL	9 16 17 12 12 13 6 8 18 12 8 8 10 16 12 15 6 8 9 11 9 13 8 13 14 13 8	Black Locust Black Locust American Elm Green Ash Black Locust American Elm Black Locust American Elm Black Locust Black Locust Black Locust	Robinia pseudoacacia Robinia pseudoacacia Ulmus americana Fraxinus pennsylvanica Robinia pseudoacacia Ulmus americana Robinia pseudoacacia	Poor Poor Very Poor Very Poor Poor Poor Poor Poor Poor Poor Poor	

2005 2006	BL BW	15 10	Black Locust Black Walnut	Robinia pseudoacacia Juglans nigra	Poor Fair	
2007	BL	13	Black Locust	Robinia pseudoacacia	Poor	
2008	BL SM	17 16	Black Locust Silver Maple	Robinia pseudoacacia Acer saccharinum	Poor Fair	
2010 2011	BL BL	13 13	Black Locust Black Locust	Robinia pseudoacacia Robinia pseudoacacia	Poor Poor	
2012	BL	14	Black Locust	Robinia pseudoacacia	Poor	
2013 2014	BL E	16 15	Black Locust American Elm	Robinia pseudoacacia Ulmus americana	Poor Poor	
2015	E	6	American Elm	Ulmus americana	Poor	
2016 2017	E BL	24 8	American Elm Black Locust	Ulmus americana Robinia pseudoacacia	Fair Poor	
2018 2019	BL BW	10 8	Black Locust Black Walnut	Robinia pseudoacacia Juglans nigra	Poor Poor	
2020	BL	8	Black Locust	Robinia pseudoacacia	Poor	
2021	BL BL	10 11	Black Locust Black Locust	Robinia pseudoacacia Robinia pseudoacacia	Poor Poor	
2023 2024	BL E	22 13	Black Locust American Elm	Robinia pseudoacacia Ulmus americana	Poor Poor	
2024	BL	7	Black Locust	Robinia pseudoacacia	Poor	
2026 2027	BL SM	6 15	Black Locust Silver Maple	Robinia pseudoacacia Acer saccharinum	Poor Fair	x1
2028	SM	20	Silver Maple	Acer saccharinum	Fair	x2
2029 2030	BL BL	16 6	Black Locust Black Locust	Robinia pseudoacacia Robinia pseudoacacia	Poor Poor	
2031 2032	BW BL	14 15	Black Walnut Black Locust	Juglans nigra	Fair Poor	
2032	BL	7	Black Locust	Robinia pseudoacacia Robinia pseudoacacia	Poor	
2034 2035	BL BL	16 19	Black Locust Black Locust	Robinia pseudoacacia Robinia pseudoacacia	Poor Poor	
2036	Е	7	American Elm	Ulmus americana	Poor	
2037 2038	BL GA	13 16	Black Locust Green Ash	Robinia pseudoacacia Fraxinus pennsylvanica	Poor Fair	
2039	E	27	American Elm	Ulmus americana	Poor	
2040 2041	E NM	25 12	American Elm Norway Maple	Ulmus americana Acer platanoides	Fair Fair	
2042 2043	E BL	7 12	American Elm Black Locust	Ulmus americana Robinia pseudoacacia	Poor Poor	
2044	BL	10	Black Locust	Robinia pseudoacacia	Poor	
2045 2046	E E	28 9	American Elm American Elm	Ulmus americana Ulmus americana	Poor Fair	
2047	В	12	Basswood	Tilia americana	Poor	x1
2048 2049	E BL	19 18	American Elm Black Locust	Ulmus americana Robinia pseudoacacia	Very Poor Poor	
2050 2051	BL NM	10 10	Black Locust Norway Maple	Robinia pseudoacacia Acer platanoides	Poor Fair	
2052	NM	8	Norway Maple	Acer platanoides	Fair	
2053 2054	NM E	6 23	Norway Maple American Elm	Acer platanoides Ulmus americana	Fair Poor	
2055	NM	6	Norway Maple	Acer platanoides	Fair	
2056 2057	BW E	18 13	Black Walnut American Elm	Juglans nigra Ulmus americana	Poor Poor	
2058 2059	E BL	10 8	American Elm	Ulmus americana	Poor Poor	
2060	BL	17	Black Locust Black Locust	Robinia pseudoacacia Robinia pseudoacacia	Poor	
2061 2062	BW BL	16 6	Black Walnut Black Locust	Juglans nigra Robinia pseudoacacia	Poor Poor	
2063	BL	6	Black Locust	Robinia pseudoacacia	Poor	
2064 2065	B B	16 16	Basswood Basswood	Tilia americana Tilia americana	Fair Fair	
2066 2067	B B	6 16	Basswood Basswood	Tilia americana Tilia americana	Poor Fair	
2068	В	13	Basswood	Tilia americana	Fair	
2069 2070	B B	12 17	Basswood Basswood	Tilia americana Tilia americana	Poor Poor	
2071	В	17	Basswood	Tilia americana	Fair	
2072 2073	B NM	12 14	Basswood Norway Maple	Tilia americana Acer platanoides	Poor Fair	
2074	NM	14	Norway Maple	Acer platanoides	Fair	
2075 2076	GA NM	14 6	Green Ash Norway Maple	Fraxinus pennsylvanica Acer platanoides	Poor Fair	
2077 2078	BL BL	19 18	Black Locust Black Locust	Robinia pseudoacacia Robinia pseudoacacia	Poor Poor	
2079	BL	14	Black Locust	Robinia pseudoacacia	Poor	
2080 2081	E BL	18 19	American Elm Black Locust	Ulmus americana Robinia pseudoacacia	Poor Poor	
2082	В	14	Basswood	Tilia americana	Poor	
2083 2084	BL B	13 12	Black Locust Basswood	Robinia pseudoacacia Tilia americana	Poor Poor	
2085 2086	GA BL	15 15	Green Ash Black Locust	Fraxinus pennsylvanica Robinia pseudoacacia	Fair Poor	
2087	В	16	Basswood	Tilia americana	Poor	
2088 2089	PB B	6 15	Paper Birch Basswood	Betula papyrifera Tilia americana	Poor Poor	
2090	В	17	Basswood	Tilia americana	Poor	
2091 2092	B BL	16 16	Basswood Black Locust	Tilia americana Robinia pseudoacacia	Poor Very Poor	
2093	NM	12	Norway Maple	Acer platanoides	Fair	
2094 2095	B GA	10 12	Basswood Green Ash	Tilia americana Fraxinus pennsylvanica	Fair Poor	
2096 2097	E BW	6 23	American Elm Black Walnut	Ulmus americana Juglans nigra	Poor Fair	
2098	E	12	American Elm	Ulmus americana	Poor	
2099 2100	BW E	21 6	Black Walnut American Elm	Juglans nigra Ulmus americana	Poor Poor	
2004		40	Jump in sequence	77.0	5	
2201 2202	B B	13 14	Basswood Basswood	Tilia americana Tilia americana	Poor Fair	x1
2203 2204	E BW	9	American Elm Black Walnut	Ulmus americana	Poor	_
2205	BW	19	Black Walnut	Juglans nigra Juglans nigra	Fair Poor	
2206 2207	TH TH	9	Thornapple/Hawthorne Thornapple/Hawthorne	Crataegus spp. Crataegus spp.	Poor Poor	
2208	NM	13	Norway Maple	Acer platanoides	Fair	
2209 2210	BW PW	6	Black Walnut White Poplar	Juglans nigra Populus alba	Poor Poor	
2211	E	7	American Elm	Ulmus americana	Poor	
2212 2213	E E	6 15	American Elm American Elm	Ulmus americana Ulmus americana	Poor Very Poor	
2214 2215	E TH	6 19	American Elm Thornapple/Hawthorne	Ulmus americana Crataegus spp.	Poor Poor	x1
2216	BL	16	Black Locust	Robinia pseudoacacia	Poor	^1
2217	BL	8	Black Locust	Robinia pseudoacacia	Poor	

American Elm

Ulmus americana

Poor







CAUTION!! THE LOCATIONS AND ELEVATIONS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THIS DRAWING ARE ONLY APPROXIMATE. NO GUARANTEE IS EITHER EXPRESSED OR IMPLIED AS TO THE COMPLETENESS OR ACCURACY THEREOF. THE CONTRACTOR SHALL BE EXCLUSIVELY RESPONSIBLE FOR DETERMINING THE EXACT UTILITY LOCATIONS AND ELEVATIONS PRIOR TO THE START OF CONSTRUCTION.

LOCATION MAP

CLIENT

GENSLER
150 W JEFFERSON, SUITE 1700
DETROIT, MI 48226

PROJECT TITLE

LONG LAKE & CROOKS MASTERPLAN DEVELOPMENT
LONG LAKE AND CROOKS ROAD
CITY OF TROY, OAKLAND COUNTY, MICHIGAN

REVISIONS		
-		

ORIGINAL ISSUE DATE: OCTOBER 20, 2020

DRAWING TITLE TREE LIST -

SHEET 3

PEA JOB NO.	2020-0320
P.M.	LAA
DN.	KRD
DES.	GMB
DRAWING NUMBER	₹:

LONG LAKE & CROOKS MASTERPLAN DEVELOPMENT STATE OF MICHIGAN COUNTY OF OAKLAND CITY OF TROY

DEVELOPMENT AGREEMENT FOR "LONG LAKE & CROOKS MASTERPLAN DEVELOPMENT" PLANNED UNIT DEVELOPMENT

This Development Agreement ("Agreement") dated ________, 2023, is entered into by and between LONG LAKE CROOKS DEVELOPMENT ASSOCIATES, L.L.C., a Michigan limited liability company, the address of which is 39400 Woodward Avenue, Suite 250, Bloomfield Hills, Michigan 48304, referred to herein as the "Developer", and the CITY OF TROY, a Michigan municipal corporation, having its principal offices at 500 West Big Beaver Road, Troy, Michigan 48084 (the "City").

RECITALS

- A. Developer is the owner of certain real property located at the northwest corner of Long Lake and Crooks Roads in the City of Troy, Oakland County, Michigan, consisting of one (1) parcel and containing approximately 24.08 acres, as more particularly described on attached **Exhibit A** (the "Property").
- B. Developer has petitioned for an Amendment to Chapter 39 of the Troy City Code, (the "Zoning Ordinance") for the rezoning of the Property to Planned Unit Development ("PUD"), pursuant to Article 11 of the Zoning Ordinance, for the development to be known as "Long Lake & Crooks Masterplan Development", sometimes also referred to herein as the "Development" or the "Planned Unit Development".
- C. Developer has demonstrated that the zoning of the Property as a PUD is consistent with the intent of Section 11.03 of the Zoning Ordinance. The Development accomplishes a

sufficient number of objectives, including among other benefits and features, the Developer proposes: (i) a mixture of land uses that would otherwise not be permitted without the use of the PUD; (ii) a recognizable and material benefit to the ultimate users of the project and to the community, where such benefit would otherwise be infeasible or unlikely to be achieved absent the PUD designation; (iii) compatible mixture of open space, landscaped areas, and pedestrian amenities; (iv) to use appropriate land use transitions between the PUD and surrounding properties; (v) innovative and creative site and building designs, solutions and materials; (vi) desirable qualities of a dynamic urban environment that is compact, designed to human scale, and exhibits contextual integration of buildings and city spaces; (vii) appropriate assembly, use, redevelopment, replacement, and improvement of an existing vacant site; (viii) consistency with the intent of the City's Master Plan and the intent of any applicable corridor or sub-area plans and consistent with recent development trends in the area; and, (ix) includes all necessary information and specifications with respect to structures, heights, setbacks, density, parking, circulation, landscaping, amenities, and other design and layout features, exhibiting a due regard for the relationship of the Development to the surrounding properties and uses thereon, as well as to the relationship between the various elements within the proposed Development.

- D. Developer submitted the Concept Development Plan ("Concept Development Plan"), a copy of which is attached as part of **Exhibit B** (PUD Application (including Concept Development Plan and supporting materials)) pursuant to Section 11.06 of the Zoning Ordinance subject to the terms of this Agreement.
- E. Troy Planning Commission held a public hearing on August 9, 2022 concerning the Planned Unit Development followed by meetings on September 27, 2022 and January 24, 2023 where approval of the Development, including the Concept Development Plan, was recommended. (See **Exhibit C**, Planning Commission Minutes and Resolution of January 24, 2023).
- F. Troy City Council held a public hearing on ________, 2023 the Minutes and Resolution from are attached to this Agreement as **Exhibit D** (City Council Minutes and Resolution of ______, 2023).

NOW, THEREFORE, as an integral part of the grant of rezoning of the Property to PUD known as the "Long Lake & Crooks Masterplan Development" and its development, and for other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the parties agree as follows:

ARTICLE I

GENERAL TERMS

1.1 <u>Binding Effect</u>. This Agreement incorporates all PUD Documents, as defined below, and shall run with the land. References in this Agreement or in any PUD Documents to "Developer" shall include Developer's successors and assigns. It is the intent of the City and Developer to put all future owners of the Property, and parties in interest, on notice of the rights, obligations, and restrictions contained herein, by recording this Agreement and its attached Exhibits with the Oakland County Register of Deeds. The terms and conditions of this Agreement

shall be considered "Deed Restrictions" binding upon all developers and any successors or assigns of the Property.

- 1.2 <u>PUD Documents</u>. The Property shall be developed and improved in accordance with the following, which shall be referred to collectively as the "PUD Documents":
 - A. Article 11 of the Zoning Ordinance, and amendments, if any, as of the Effective Date;
 - B. This Agreement;
 - C. The initial PUD Application, including the Concept Development Plan and supporting materials, received by the City of Troy Planning Department on November 18, 2020, and as revised and submitted on November 28, 2022 (**Exhibit B**) ("PUD Application (including Concept Development Plan and supporting materials)");
 - D. The following documents attached as **Exhibit E** ("Preliminary Site Plan Documents"):

General Description of Document	Date of Document	Drafter or Preparer
Topographic Survey Sheet C-1.0	April 11, 2022	PEA Group James P. Butler
Preliminary Site Plan Sheet C-3.0	April 11, 2022	PEA Group James P. Butler
Preliminary Utility Plan Sheet C-5.0	April 11, 2022	PEA Group James P. Butler
Preliminary Landscape Plan Sheet L-1.0	April 11, 2022	PEA Group Janet L. Evans

- E. The Resolution and the official minutes of the meeting at which the City Council approved the PUD, including any and all conditions of the approval contained therein, an Affidavit of Property Ownership to be recorded with the Oakland County Register of Deeds prior to commencement of construction and prior to the sale, lease, rental, or occupancy by tenants of any portion of the Property, contain the legal description of the entire Property, specifying the date of the Concept Development Plan approval, and rezoning of the Property to PUD by the City Council, and declaring that all future development of the Property has been authorized, restricted, and required to be carried out in accordance with this Agreement, and the amendment to the Zoning Ordinance granting rezoning to PUD; (See **Exhibit D**).
- F. All Preliminary Development Plans, as defined in Section 11.07 of the Zoning Ordinance, approved by City Council; and,
- G. All Final Development Plans, as defined in Section 11.08 of the Zoning Ordinance, approved by the Zoning Administrator or by the Community Development Director of the City.

1.3 Amendment to Zoning Ordinance. Troy City Council Resolution #______ (the "Resolution") and this Agreement shall be considered an amendment to the Zoning Ordinance and the Zoning Map, reclassifying the zoning of the Property, which was not previously rezoned to PUD, and the Resolution constitutes the land authorization for the Property in accordance with the Zoning Ordinance. All uses and improvements completed on the Property shall be in substantial conformity with Article 11 of the Zoning Ordinance and the PUD Documents.

ARTICLE II

DEVELOPER'S RIGHTS, OBLIGATIONS, AND PROPERTY RESTRICTIONS

- 2.1 <u>Development Rights</u>. Developer shall have the right to develop and use the Property, and make improvements and modifications to the Property, in accordance with the PUD Documents identified in Section 1.2 above. Any changes to the Development shall be approved in accordance with the PUD Documents in effect at the time of the proposed changes.
- 2.2 <u>Permitted Uses</u>. The City acknowledges and approves that the Development shall consist of separate areas within which there will be separate permitted uses, but which together will relate to each other in an acceptable and cohesive development. The separate areas are depicted on the Concept Development Plan (included within <u>Exhibit B</u>) as development areas, amenity zones, retail/restaurant areas, and natural areas and are more fully defined in this Agreement. The permitted uses of the Development described below are consistent with the intent of the City's Master Plan or the intent of any applicable corridor or sub-area plans, and otherwise consistent with Section 11.02 of the Zoning Ordinance, and are to be a mixture of commercial, retail, residential, and office uses, and identified as follows:
 - A. <u>Development Area 1</u> Residential uses including multiple-family dwellings (2-8 stories), live/work units, accessory uses related to such uses, and all associated surface parking.
 - B. <u>Development Area 2</u> Office uses including offices (general), professional and medical offices, business services, a multi-story parking structure, accessory uses related to such uses, and all associated surface parking.
 - C. <u>Development Area 3</u> Office uses including offices (general), professional and medical offices, business services; and residential uses including multiple-family dwellings (2-8 stories), multiple-family dwellings (9+ stories), Multiple-family dwellings (on upper floors only in a mixed-use building), live/work units; and restaurant, retail sales or business uses including restaurants (standard), restaurants (fast food), bar/lounge, outdoor dining areas, retail (general), health fitness centers, athletic clubs, martial arts studios, dance studios, music studios, art studios, dry cleaners and laundry, pharmacies (durable medical goods sales/rental), conference meeting uses, banquet facility uses, personal services; and a multi-story parking structure; and accessory uses related to such uses, and all associated surface parking.

- D. <u>Development Area 4</u> Lodging uses; and extended stay uses; and residential uses including multiple-family dwellings (2-8 stories), live/work units; and accessory uses related to such uses, and all associated surface parking.
- E. <u>Restaurant/Retail Areas</u> "Restaurant" and/ or "Retail Business or Retail Sales" uses as defined by the Zoning Ordinance, and their accessory uses, and all associated surface parking.
- F. <u>Amenity Zone A</u> "Open Space" as defined by the Zoning Ordinance for use as an open field activity area, including bocce ball court, pickleball courts, seasonal ice-skating rink, and associated surface parking.
- G. <u>Amenity Zone B</u> "Open Space" as defined by the Zoning Ordinance for use as a fitness path with outdoor exercise stations. A portion of Amenity Zone B is a regulated wetland area, will be restricted from development, and will remain in an "Undeveloped State" as defined in the Zoning Ordinance, except as provided for in this Agreement, and is designated as "Wetland D" within **Exhibit E**, specifically sheet C-3.0.
- H. <u>Amenity Zone C</u> Amenity Zone C is a mostly a regulated wetland area, will be restricted from development, and shall remain in an "Undeveloped State" as defined in the Zoning Ordinance, except as provided for in this Agreement, and is designated as "Wetland A" within <u>Exhibit E</u>, specifically on sheet C-3.0.

The parties intend that the uses listed above shall have the same meaning as referenced in the Zoning Ordinance, including the uses listed in the Table in Section 4.21 of the Zoning Ordinance. The uses listed above from Table 4.21 which identify the number of stories in Development Areas 1, 3, and 4 are not intended to permit the Developer to deviate from the number of stories identified on the Concept Development Plan and as identified in Section 2.3 below. Such permitted uses within each of the above areas shall be selected by the Developer, in its sole discretion, recognizing the uses are subject to market demand, end-user requirements, development patterns, and other factors outside of the control of the Developer. Developer shall be provided with flexibility in selecting such permitted uses, and any combination of the permitted uses, to provide Developer the opportunity to construct and use a higher quality development and a better overall project than would be accomplished under conventional zoning, and which will be accommodated without sacrificing established community values. An amendment to this Agreement shall be required if any use not listed above is proposed; provided, however, that the Zoning Administrator shall have the authority to allow similar or accessory uses to those listed above within each development area. For purposes of this Agreement and consistent with the Zoning Ordinance, the term "accessory uses" shall mean uses that are supplemental or subordinate to the principal building on a parcel of land or development area; and shall be on the same parcel of land or development area as the principal building, structure, or use they serve. It is also recognized that Developer shall be provided with flexibility in altering the uses within the Amenity Zones referenced above so long as such uses are consistent with the "Open Space" definition in the Zoning Ordinance.

Sequencing and Phasing of Development. Due to the unique nature and scale of the Development, the City recognizes that the Developer shall be afforded maximum flexibility in the sequencing and phasing of the Development to attract investment and end users consistent with the Phasing Plan, as described below. Any phase described below shall be generally referenced alone as a "Phase" and together as "Phases" for purposes of this Agreement. Developer shall be permitted to apply for all approvals, including Preliminary Development Plan approval and Final Development Plan approval, for any portion of the Development, including the Phases or Restaurant/Retail Areas, at any time consistent with the Phasing Plan, within the sole discretion of the Developer, and the City shall be obligated to review and promptly process such requests for approval as provided for under the Zoning Ordinance. Developer shall be permitted, but not required, to commence construction and development of any Phase or Restaurant/Retail Area at any time consistent with the Phasing Plan, within the sole discretion of the Developer, and the City shall be obligated to review and process such requests for construction and development approvals as provided for under the Zoning Ordinance; provided, however, that once construction is commenced in any Phase or Restaurant/Retail Area, the Developer shall complete the development and construction of such Phase or Restaurant/Retail Area. Undeveloped Phases or Restaurant/Retail Areas shall be appropriately maintained by Developer, including grass cutting and refuse removal. Developer shall not clear-cut trees within any unapproved and undeveloped Phase or Restaurant/Retail Area without the approval of the Community Development Director.

The Development is planned as a multiple phase development, each of which shall include the associated infrastructure improvements within and necessary to serve such Phase or Restaurant/Retail Area. The Phases of the Development (the "Phasing Plan") are set forth below.

RESIDENTIAL MID-RISE PHASE: The Residential Mid-Rise Phase is depicted on the Concept Development Plan as **Development Area 1**. This Phase includes one residential mid-rise building with associated accessory uses, parking, driveways, and sidewalks. The building shall be a minimum number of three (3) stories, with a building height not to exceed 40 feet, and a maximum of seven stories, with a building height not to exceed 90 feet. The maximum square footage of this building is 150,000 square feet.

OFFICE/PROFESSIONAL PHASE: The Office/Professional Phase is depicted on the Concept Development Plan as **Development Area 2** and includes one building that is intended to be primarily an office and/or professional building with accessory uses supported by a parking structure and associated surface parking, driveways, and sidewalks. The building shall be a minimum of four (4) stories, with a building height not to exceed 60 feet, and a maximum of ten (10) stories, with a building height not to exceed 150 feet. The maximum square footage of this building is 500,000 square feet.

OFFICE/PROFESSIONAL/RESIDENTIAL/RETAIL/PARKING PHASE: The Office/Professional/Residential/Retail/Parking Phase is depicted on the Concept Development Plan as **Development Area 3** and includes one building that is primarily intended to be office and/or professional and/or residential building with accessory uses and will be supported by an associated parking deck contained within the building along with associated surface parking, driveways, and sidewalks. This building shall be a minimum of four (4) stories, with a maximum height of 60 feet, and maximum of ten (10) stories, with a maximum height of 150 feet. The maximum square footage of this building is 350,000 square feet.

LODGING/EXTENDED STAY/RESIDENTIAL PHASE: The Lodging/Extended Stay/ Residential Phase is depicted on the Concept Development Plan as **Development Area 4** and includes one building that will be supported by associated surface parking, driveways, and sidewalks. This building shall be a minimum of three (3) stories, with a building height not to exceed 40 feet, and a maximum of seven (7) stories, with a maximum height of 90 feet.

The Developer and the City recognize that development of the amenity zones is important to the success of the Development. Amenity Zone A shall be developed as part of the first Phase. Amenity Zone B shall be developed as part of the second Phase, except for the regulated wetland area within Amenity Zone B which shall remain undeveloped except as permitted by EGLE. Amenity Zone C shall remain undisturbed except to the extent permitted by EGLE and only then for such uses as shown on the Concept Development Plan, such as foot trails and retaining walls, because it is primarily a regulated wetland area. Amenity Zone C may be developed, if at all, at any time in association with any Phase.

At the discretion of the Developer, any or all of the Restaurant/Retail Areas (depicted as Restaurant/Retail Building #1, Restaurant/Retail Building #2, and Restaurant/Retail Building #3 on the Concept Development Plan) may be: (i) constructed at any time without being part of any Phase after the Developer has commenced construction of the first Phase; or, (ii) constructed at any time as part of any Phase. The Restaurant/Retail Area shall be comprised of a total of three separate buildings. Each building may be one (1) or two (2) stories with a maximum height of 35 feet for each building.

Upon commencement of the first Phase, all regulated wetland areas shall be restricted from any development and shall remain in an "Undeveloped State" as defined in the Zoning Ordinance and as depicted within **Exhibit E** containing the Preliminary Site Plan Documents, specifically sheet C-3.0.

- 2.4 <u>Duration</u>. The parties recognize and agree that there is no formal development schedule for the Development. This Agreement and the Concept Development Plan shall remain in full force and effect so long as Developer requests Preliminary Development Plan approval for the first Phase within five (5) years from the Effective Date. Developer must commence construction of the first Phase within two (2) years of Final Development Plan approval of the first Phase and shall thereafter, in its sole discretion, commence construction of any other Phase or Restaurant/Retail Area no later than twenty (20) years from the commencement of construction of the first Phase. Developer may request an extension for good cause from the City not less than 90 days prior to the expiration date of any deadlines so long as Developer has acted in good faith to commence and complete construction of the Phases.
- 2.5 Relationship of Phases and Areas. Each Phase or Restaurant/Retail Area developed shall be capable of standing on its own in terms of the presence of Improvements, as defined below, to serve such Phase or Restaurant/Retail Area. Developer shall not be required to construct Improvements outside of a particular Phase or Restaurant/Retail Area and shall not be required to connect any such Improvements between any non-contiguous Phase or Restaurant/Retail Area, until the last of the Phases and Restaurant/Retail Areas described above is completed.

- 2.6 <u>Vesting</u>. To the extent construction has commenced on a particular Phase or Restaurant/Retail Area, Developer shall be deemed to have obtained vested rights with respect to that Phase or Restaurant/Retail Area and shall be permitted to complete that Phase or Restaurant/Retail Area in accordance with applicable approvals.
- 2.7 <u>Preliminary Development Plan Submittal</u>. Preliminary Development Plans for each Phase, Amenity Zone, or Restaurant/Retail Area shall be consistent with the Concept Development Plans and this Agreement, and each Preliminary Development Plan shall be submitted for approval to the City with corresponding traffic and parking studies to be reviewed and approved administratively by the City Engineer, the Road Commission for Oakland County, and the Michigan Department of Transportation as may be required by applicable law. The scope of the traffic and parking studies shall be approved by the City Engineer consistent with the Zoning Ordinance and this Agreement.
- 2.8 <u>Statement of Conditions</u>. As part of the PUD and as a condition of said approval and to satisfy the PUD zoning standards, Developer's obligations shall include the following, plus any other requirements set forth in the PUD Documents, this Agreement and Exhibits, attached hereto and made a part hereof, which are designated as the obligations of the Developer:
 - A. The Development will facilitate the interconnectivity of vehicular and pedestrian access through a network of sidewalks and internal roads.
 - B. The Developer will preserve in perpetuity certain natural wetland areas on the Property.
 - C. The Development will include amenity zones with bocce ball courts pickleball courts, seasonal ice-skating rink, fitness path with outdoor exercise stations, outdoor activity areas, and a pedestrian loop and boulevard throughout the Property, each accessible to the public and as shown on the Concept Development Plan.
 - D. The Development will provide large open spaces and landscaped areas which exceed the requirements of the City in a workable integrated design.

The City acknowledges that the Development will have numerous community benefits and, among them, the Development will: (a) eliminate existing under-development of the Property as well as encourage the assemblage and division of parcels within the Property to create a consistent development that provides a logical transition with the surrounding properties; (b) promote and be consistent with the redevelopment goals of the City's Master Plan; (c) incorporate and implement numerous goals and strategies of the City's Master Plan; and, (d) provide a higher quality of development than could be achieved under conventional zoning.

2.9 <u>Development Standards</u>. The Property shall be developed, if at all, consistent with the City of Troy development standards, the Zoning Ordinance, and other City ordinances, or any amendments thereto, and consistent with the PUD Documents (the "Approved Standards"),

without the need for any additional approvals from the City for such standards, because the City has determined that the Approved Standards are a reasonable approach for the PUD as listed in Article 11 of the Zoning Ordinance for the Development including but not limited to the following purposes:

- A. To encourage developments that will result in a long-term contribution to social, environmental, and economic sustainability in the City;
- B. To permit development patterns that respond to changing public and private needs;
- C. To encourage flexibility in design and use that will result in a higher quality of development and a better overall project than would be accomplished under conventional zoning, and which can be accommodated without sacrificing established community values;
- D. To encourage the use, redevelopment, and improvement of existing sites where current ordinances do not provide the flexibility to consider redevelopment of sites;
- E. To ensure the compatibility of design and use among various components within the PUD and with neighboring properties and uses;
- F. To ensure development that is consistent with the intent of the City's Master Plan; and,
- G. To encourage an integrated development.

The Approved Standards, as well as other approved features of the Development contained in this Agreement, are not intended to avoid the zoning requirements that would otherwise apply, but rather to allow flexibility and mixture of uses, and to improve the design, character, and quality of Development and any variations from the requirements of the Zoning Ordinance, because they are improvements to the public health, safety, and welfare in the area affected and in accordance with the intent of Article 11 of the Zoning Ordinance.

The City recognizes that the boundaries of each of the Phases, Amenity Zones, and Restaurant/Retail Areas shown on the Concept Development Plan may need to change in light of market demand, end-user requirements, development patterns, and other factors outside of the control of the Developer. Therefore, to provide Developer with flexibility in design and use that will result in a higher quality of development and a better overall project than would be accomplished under conventional zoning, and which will be accommodated without sacrificing established community values, the boundaries of such Phases, Amenity Zones, or Restaurant/Retail Areas shown on the Concept Development Plan may be enlarged or reduced, at the sole discretion of the Developer, so long as the Developer complies with the Approved Standards as specified herein.

Modifications regarding the density, mix of types of buildings, number of units per building, and location of buildings shall be permitted under this Agreement to allow the Developer

flexibility and as may be reasonably necessary to comply with applicable laws or regulations, subject to this Section. Developer shall have the right, in its sole discretion, to modify interior floor plans subject to compliance with all other City ordinances. Minor modifications to the PUD Documents resulting from engineering considerations, site conditions, or other governmental requirements may be administratively approved by the Zoning Administrator or Community Development Director.

Landscaping shall meet or exceed required landscaping for similar projects pursuant to Chapter 39, Section 13.02 of the Zoning Ordinance.

- 2.10 <u>General Maintenance</u>. Developer shall maintain all common areas, storm water drainage and retention facilities, landscaped areas, parking areas, and sidewalks in good working order and appearance. Developer may establish an Association or Associations to assume the maintenance obligations set forth in this Agreement in which event the Association or Associations shall succeed to the Developer's obligations for those portions of the Property defined in the instrument establishing each Association, and Developer shall be relieved of all obligations and liability with respect thereto.
- 2.11 <u>Conveyance by Developer</u>. In the event Developer conveys all or any portion of the Property, it shall establish easements over and across the Property providing that all portions of the Property shall have full egress and ingress for both vehicular and pedestrian use and for egress and ingress to a public road, and access over, under, and across portions of the common areas necessary for installation, construction, repair, and maintenance of utilities affecting and placed upon the Property, which may provide for shared participation in the cost of maintenance and repair. Developer may, however, designate specific parking areas for use by specific areas of the Development.
- 2.12 <u>Construction Trailers</u>. Developer shall comply with the City Code and Ordinances, make any necessary application for permits, and obtain any necessary permits for the use of construction trailers, and for rental, occupancy, and advertising signs.

ARTICLE III

PUBLIC IMPROVEMENTS

3.1 <u>Water and Sanitary Sewer Systems.</u> Developer shall construct and install improvements and/or connections tying into the municipal water and sanitary sewer systems, including any required fire hydrant, consistent with the Phasing Plan. Such improvements shall be designed and constructed in accordance with any Final Development Plan approved under Section 11.08 of the Zoning Ordinance, approved engineering construction plans, and all applicable City, County, and State standards, codes, regulations, ordinances, and laws. Such water and sanitary sewer service facilities, including any on-site and off-site facilities, extensions, and easements to reach the area to be served, shall be completed, approved, and dedicated to the City to the extent necessary to fully service all proposed and existing facilities, structures, and uses for such Phase or Restaurant/Retail Area. Consistent with the Phasing Plan, all water and sanitary system improvements required shall be completed before construction of the buildings to be erected in the applicable Phase or Restaurant/Retail Areas and shall be completed, approved and dedicated to

and accepted by the City, if required, to the extent necessary to fully service all proposed and existing facilities, structures and uses, within such Phase or Restaurant/Retail Area to be served thereby, prior to issuance of any building permits within such Phase or Restaurant/Retail Area. The water and sanitary sewer improvements within each Phase or Restaurant/Retail Area must be completed such that, upon completion and any dedication of such improvements, they are fully sufficient to provide the required capacity for water and sewer services to such buildings to be erected within such Phase or Restaurant/Retail Area according to the applicable laws, ordinances, codes, regulations, and standards at the time of construction of buildings to be erected within such Phase or Restaurant/Retail Area. The Developer shall post security in the form of cash or check or certificate of deposit, irrevocable letter of credit, or a performance bond (the "Security"), as specified in a separate agreement approved by the City for any water and sanitary sewer systems undergoing construction. The Security shall be in an amount equal to the estimated cost of installation, or a performance bond in an amount equal to the cost of construction plus ten percent (10%), as specified in a bona fide contract for installation of such improvements approved by the City Engineer. The agreement shall also authorize the City, at its option, to complete these improvements as required by the City Engineer, if Developer fails to complete the water and sanitary sewer improvements in a timely fashion, once construction has commenced. All performance bonds shall be issued by institutions licensed and admitted to do business in the State of Michigan. Building permits for the buildings to be erected on the Property within the Development to be served by the water and sanitary sewer improvements in question shall be issued upon the posting of such Security and execution of such agreement, which shall be approved by the City Attorney in the exercise of reasonable discretion.

Storm Water Drainage. Developer shall, at its sole expense, construct and install storm water and retention and/or detention systems consistent with the Phasing Plan. Such improvements shall be designed and constructed in accordance with any Final Development Plan approved under Section 11.08 of the Zoning Ordinance, approved engineering construction plans, and all applicable City, County and State standards, codes, regulations, ordinances, and laws. All storm water and retention and/or detention system improvements required shall be completed before construction of the buildings to be erected within a Phase or Restaurant/Retail Area and shall be completed and approved to the extent necessary to fully service all proposed and existing facilities, structures and uses, within such Phase or Restaurant/Retail Area, prior to issuance of any building permits. The Developer shall post Security, as specified in a separate agreement approved by the City, for any storm water and retention and/or detention system systems undergoing construction. The Security shall be in an amount equal to the estimated cost of installation, or a performance bond in an amount equal to the cost of construction plus ten percent (10%), as specified in a bona fide contract for installation of such improvements approved by the City Engineer. The agreement shall also authorize the City, at its option, to complete these improvements as required by the City Engineer, if Developer fails to complete the storm water and retention and/or detention system improvements in a timely fashion, once construction has commenced. All performance bonds shall be issued by institutions licensed and admitted to do business in the State of Michigan. Building permits for the buildings to be erected within the Development to be served by the storm water and retention and/or detention system improvements in question shall be issued upon the posting of such Security and execution of such agreement, which shall be approved by the City Attorney in the exercise of reasonable discretion. During the development of the Property, the Developer or its successors or assigns shall be obligated to

maintain the storm water and retention and/or detention system and facilities for such applicable Phase or Restaurant/Retail Area in a fully operational condition.

- Streets, Boulevards, Sidewalks, Non-Motorized Paths, Drives, Entryways and Parking Areas. Developer shall, at its sole expense, construct and install streets, boulevards, sidewalks, non-motorized paths, drives, entryways, and parking areas consistent with the Phasing Plan. All internal streets, boulevards, sidewalks, non-motorized paths, drives, entryways, and parking areas will be private. Such improvements shall be designed and constructed in accordance with any Final Development Plan approved under Section 11.08 of the Zoning Ordinance, approved engineering construction plans, and all applicable City, County, and State standards, codes, regulations, ordinances, and laws. The Developer shall post Security, as specified in a separate agreement approved by the City, for any streets, boulevards, sidewalks, non-motorized paths, drives, entryways, and parking areas undergoing construction. The Security shall be in an amount equal to the estimated cost of installation, or a performance bond in an amount equal to the cost of construction plus ten percent (10%), as specified in a bona fide contract for installation of such improvements approved by the City Engineer. The agreement shall also authorize the City, at its option, to complete these improvements as required by the City Engineer, if Developer fails to complete the streets, boulevards, sidewalks, non-motorized paths, drives, entryways, and parking areas in a timely fashion, once construction has commenced. All performance bonds shall be issued by institutions licensed and admitted to do business in the State of Michigan. Building permits for the buildings to be erected within the Development to be served by the streets, boulevards, sidewalks, non-motorized paths, drives, entryways, and parking areas in question shall be issued upon the posting of such Security and execution of such agreement, which shall be approved by the City Attorney in the exercise of reasonable discretion. At all times, during and after completion of construction, Developer, its successor and assigns, shall cause all internal streets, boulevards, sidewalks, non-motorized paths, drives, entryways, and parking areas to be maintained, repaired and kept in an unimpeded, unobstructed, safe and passable condition at all times to allow for the free flow and circulation of traffic throughout the Development when completed, and within each Phase Restaurant/Retail Area prior to completion of the Development, except for temporary closures or obstruction due to repairs or snow. Developer shall install and maintain an adequate gravel surface base as determined by the City Engineer for all entrance ways and internal drive areas to provide for access for construction traffic, City personnel, emergency and firefighting equipment for such specific site and prior to construction of a final base course. The aforementioned agreement for completion shall provide that the paving of all areas referenced in this Section within an applicable Phase or Restaurant/Retail Area shall be completed and approved (including topcoat and parking lot striping) prior to the issuance of more than ninetyfive percent (95%) of any certificates of occupancy for buildings within a Phase or Restaurant/Retail Area, but in any event such paving shall be completed within two (2) years of issuance of the first building permit for a building within such Phase or Restaurant/Retail Area.
- 3.4 <u>Improvements</u>. The City acknowledges that any Phase or Restaurant/Retail Area as may be shown on the Concept Development Plan may be constructed, and operated, at different times consistent with the Phasing Plan, at the discretion of the Developer, depending on market forces and the feasibility of doing so, and that the Developer should be afforded flexibility in its approach to develop the Property in a reasonable and efficient manner. Therefore, notwithstanding anything to the contrary contained in Sections 3.1, 3.2, and 3.3 above: (a) the City shall permit the Developer to construct and operate upon any Phase or Restaurant/Retail Area so long as the

improvements referenced in Sections 3.1, 3.2, and 3.3 above (the "Improvements") adequately service all proposed and existing facilities, structures, and uses within such Phase or Restaurant/Retail Area and shall issue all permits, approvals, and consents accordingly; (b) it shall not be a condition of this Agreement that Developer must complete all of the Improvements on the entire Property before any Phase or Restaurant/Retail Area on the Concept Development Plan is commenced or completed, including the streets, boulevards, sidewalks, non-motorized paths, drives, entryways, and parking areas; and, (c) the City shall not withhold certificates of occupancy, or any other approval, for any buildings in a specific Phase or Restaurant/Retail Area shown on the Concept Development Plan solely because Improvements are not completed within other Phases or Restaurant/Retail Areas.

- 3.5 <u>Assignment of Maintenance Obligations</u>. Developer shall have the right to assign its maintenance obligations under this Agreement to an Association or Associations and to any successors and assigns including any successor developer or owner of a portion of the Development. Upon the assignment to and assumption by an Association or any successor developer or owner of any of Developer's maintenance obligations, as set out in this Agreement and otherwise, Developer shall have no further obligations or liability with respect thereto. All successors and assigns of Developer shall agree to be bound by the obligations for common area maintenance contained in this Agreement.
- 3.6 <u>Regular Inspections</u>. For purposes of maintenance obligations set forth in this Article, the term "maintenance," "maintain" and "maintained" shall mean and include regular inspections.
- 3.7 <u>Reduction of Security</u>. At the Developer's request, but not more frequently than once a month, the Security may be reduced by the same percentage as the percentage of completion of each component of the Improvements as determined by the City's engineer in the exercise of reasonable discretion. The balance of any Security shall be returned to Developer within thirty (30) days following the determination of the City that any particular portion of the Improvements have been completed consistent with the approved engineering plans. A minimum of ten percent (10%) of the Security shall be maintained by the City until such time as final approval has been issued for all Improvements commenced.

ARTICLE IV

THE CITY'S RIGHTS AND OBLIGATIONS

4.1 <u>Notice of Deficiencies and Cure Period.</u> The City, in each instance, shall provide by written thirty (30) days' notice to Developer documentation of any and all deficiencies and shall provide Developer with an adequate time period in which to cure any deficiencies under this Agreement, which shall be enough time for Developer, its successors, or assigns, to cure the deficiency, taking into consideration applicable weather and related conditions. Subject to Force Majeure, as defined below, if following the expiration of the period set forth to cure any deficiencies, such deficiencies have not been cured, the City shall thereupon have the power and authority, but not the obligation, to take any of the following actions, in addition to any actions authorized under City ordinance and/or State law:

- (a) Demand that the non-performance, deficiency, or obligation be fulfilled, performed, or completed before Developer assigns its obligations to another owner of the Property and set a specific date to complete the performance, fulfill the obligation, or correct the deficiency. If Developer has not completed the performance, fulfilled the obligation, or corrected the deficiency by the date specified, the Developer shall not assign its obligations to a subsequent owner of the applicable portion of the Property to which the non-performance, deficiency, or obligation pertains and the City may proceed under Section 4.1(b).
- (b) Enter upon the Property or cause its agents or contractors to enter upon the Property and perform such obligation or take such corrective measures as reasonably found by the City Administration to be appropriate. In addition to any financial assurance given to ensure completion of the improvements, the additional costs and expense of making and financing such action by the City, including without limitation notices by the City, upon written documentation of such additional costs and expenses, and reasonable legal fees incurred by the City, plus an administrative fee in the amount of ten percent (10%) of the total of all such costs and expenses incurred, shall be paid by Developer within thirty (30) days of City's invoicing to Developer.
- (c) The City may initiate legal action for the enforcement of any of the provisions, requirements, and obligations set forth in the PUD Documents.
- (d) The City may issue a stop work order as to any or all aspects of then uncompleted portions of the Development to which the non-performance, deficiency, or obligation pertains detailing in writing the uncompleted portions of the Development, may deny the issuance of any requested building permit or certificate of occupancy within any part or all of the Development, regardless of whether the Developer is the named applicant for such permit or certificate of occupancy, and may suspend further inspections of any or all aspects of the Development until such issues have been satisfactorily resolved.
- (e) The City may, until as such non-performance, deficiency, or obligation has been cured: (i) initiate proceedings to rezone any part of the undeveloped portions of the Property in control of the Developer for which such non-performance, deficiency, or obligation pertains to its former zoning designation, or (ii) in the event that such non-performance, deficiency, or obligation is a material default of this Agreement by such Developer, terminate this Agreement with respect to the portion of the Property to which the deficiency pertains, which termination shall only be effective if the deficiency remains uncured for a period of sixty (60) days from receipt by Developer of the notice of termination.
- 4.2 <u>Right of Entry</u>. At any time throughout the period of development and construction of any part of the Development, the City, its contractors, representatives, consultants, and agents, shall be permitted and are hereby granted authority to enter upon such portion of the Property being developed or constructed for the purpose of inspecting and/or completing the respective improvements, and for the purposes of inspecting for compliance with and enforcement of the PUD Documents.
- 4.3 <u>Deviations Permitted</u>. To the extent the PUD Documents deviate from or conflict with the City of Troy development standards, the Zoning Ordinance, or other City ordinances, or any amendments thereto, the PUD Documents shall control, and the City shall not require any

additional approvals, waivers, or variances with respect to such deviations. All improvements constructed in accordance with the PUD Documents shall be deemed to be conforming under the Zoning Ordinance and in compliance with all ordinances of the City.

4.4 <u>Permits and Approvals</u>. Other than provided for in this Agreement or as required by Article 11 of the Zoning Ordinance, the City shall not require any additional land use related permits or approvals for the Development such as site plan approval under Article 8 of the Zoning Ordinance, special land use approval under Article 9 of the Zoning Ordinance, and variances under Article 15 of the Zoning Ordinance.

ARTICLE V

MISCELLANEOUS PROVISIONS

- 5.1 <u>Amendments</u>. This Agreement may not be modified, replaced, amended, or terminated without the prior written consent of the parties to this Agreement. Developer shall have the right to delegate its rights and obligations under this Agreement to a successor owner of all of the Property or to one or more successor owners of portions of the Property in accordance with this Agreement. Until the rights and responsibilities under this Agreement are transferred to a third party under this Agreement, Developer and the City shall be entitled to modify, replace, amend, or terminate this Agreement, without requiring the consent of any other person or entity whatsoever, regardless of whether such person has any interest in the Property, including mortgagees and others.
- 5.2 <u>Governing Law</u>. This Agreement shall be governed by and construed in accordance with the laws of the State of Michigan.
- 5.3 Interpretation in the Event of Conflict. If there is a conflict among the terms of any of the PUD Documents, such documents shall control in the following order: (a) this Agreement and the attached Exhibits which are made a part hereof; (b) Article 11 of the Zoning Ordinance and amendments, if any; (c) Final Development Plans, and (d) the Concept Development or Preliminary Development Plans. Where there is a question with regard to applicable regulations for a particular aspect of the Development, or with regard to clarification, interpretation, or definition of terms or regulations, and there are no apparent express provisions of the PUD Documents which apply, the City in the reasonable exercise of its discretion shall determine the regulations of the City's Ordinances that are applicable, provided such determination is not inconsistent with the nature and intent of the PUD Documents or in violation of applicable Federal or Michigan law; and, provided that Developer, its successors or assigns, shall have the right to challenge or contest the determination of the City in any court having jurisdiction.
- 5.4 <u>General Interpretation and Findings</u>. The terms of the PUD Documents, including this Agreement, have been negotiated by the undersigned parties and such documentation represents the product of the joint efforts and agreement of the Developer and the City. Developer and the City fully accept and agree to the final terms, conditions, requirements, and obligations of the PUD Documents, and shall not be permitted in the future to claim that the effect of these PUD Documents results in an unreasonable limitation upon uses of all or a portion of the Property or claim that enforcement of any of the PUD Documents causes an inverse condemnation or taking

of all or a portion of the Property. Furthermore, it is agreed that the improvements and undertakings set forth in the PUD Documents are necessary and roughly proportional to the burden imposed in order to ensure that services and facilities affected by the Development will be capable of accommodating increased services and facility loads, traffic, and storm water drainage caused by the development thereof, to protect the natural environment and conserve natural resources, to ensure compatibility with adjacent uses of land, to promote use of the Property in a socially and economically desirable manner, and to achieve other legitimate objectives authorized under the Michigan Zoning Enabling Act, MCL 125.3101, *et seq.* It is further agreed and acknowledged hereby that all of such improvements are substantially related to the burdens to be created by the Development contemplated hereby, and all such improvements and the requirements and regulations of the Development under the PUD Documents and the Zoning Ordinance, without exception, are clearly and substantially related to the legitimate interests in protecting the public health, safety and general welfare. All Exhibits attached to this Agreement are made a part hereof and are incorporated herein by reference.

- 5.5 <u>Counterparts</u>. This Agreement may be executed in multiple counterparts, each of which shall be deemed an original and all of which together shall constitute one and the same agreement. The signature of any party to any counterpart shall be deemed to be a signature to, and may be appended to, any other counterpart.
- 5.6 <u>Successors and Assigns</u>. This Agreement shall be binding on and shall inure to the benefit of the parties and their respective successors and assigns, as more particularly provided herein.
- 5.7 Force Majeure. Provided that the Developer is proceeding in good faith and with reasonable diligence to develop the Development in light of existing economic conditions, and is otherwise in compliance with this Agreement, the City will not unreasonably refuse to extend any time periods under this Agreement for a reasonable time to enable the Developer to complete the Development or any portion of it. Any delay or failure of Developer to perform its obligations in this Agreement shall be excused to the extent that it is caused by an unforeseen, unpreventable event or occurrence beyond its reasonable control such as, by way of example and not by way of limitation, an order of the State of Michigan, United States of America or local governmental body, an outbreak and/or the spread of an epidemic, pandemic (including, without limitation, COVID-19), or other disease causing local, regional, or national emergency, acts of God, actions by governmental authority (whether valid or invalid), fires, floods, riot, natural disasters, wars, economic downturn, loss of funding, diminished funding, terroristic threat or action, or sabotage (collectively, a "Force Majeure"); provided the Developer promptly notifies the City of the event of a Force Majeure, the anticipated duration of the event of Force Majeure, and the steps taken to remedy the failure; and provided further that commercially reasonable efforts shall be used to minimize the extent and effect of the Force Majeure event.
- 5.8 <u>Effective Date</u>. For the purpose of confirming the rights, obligations, and restrictions in connection with the Development to be undertaken on the Property, once the City Council has enacted an Amendment to the Zoning Ordinance rezoning the Property to PUD as approved this Agreement, the effective date of the rezoning and this Agreement shall be the date on which City Council approves this Agreement (the "Effective Date"). After this Agreement granting rezoning is effective, the Planning Director of the City shall take what actions are

necessary to correct the Zoning Map to show the rezoning of the Property, and this Agreement shall be binding upon the City and the Developer.

DEVELOPER:

	ASSO	G LAKE CROOKS DEVELOPMENT OCIATES, L.L.C., chigan limited liability company
	Ву:	Long Lake Crooks Development-MM, Inc., a Michigan corporation Its: Manager
		By: Anthony G. Antone Its: Vice-President
STATE OF MICHIGAN)		
) SS. COUNTY OF OAKLAND)		
by Anthony G. Antone, the Vice-Pres	sident of I Long Lal	te me this day of, 2023, Long Lake Crooks Development-MM, Inc., a see Crooks Development Associates, L.L.C., a he Company.
		, Notary Public County, Michigan
		County, Michigan
		My Commission Expires: Acting in the County of
		, <u> </u>

[Signatures for the City appear on the following page]

	CITY:
	CITY OF TROY, a Michigan municipal corporation
	By: Ethan Baker Its: Mayor
	By:
STATE OF MICHIGAN)) SS. COUNTY OF OAKLAND)	
	dged before me this day of, 2023, son, City Clerk of the City of Troy, a Michigan municipal n.
	, Notary Public

COOPERATIVELY DRAFTED BY:

Tyler D. Tennent
Dawda Mann, PLC
Dawda Mann Building
39533 Woodward Avenue, Suite 200
Bloomfield Hills, Michigan 48304
AND
Julie Q. Dufrane
Assistant City Attorney
City of Troy
500 W. Big Beaver Road
Troy, Michigan 48084

WHEN RECORDED RETURN TO:

_____ County, Michigan

My Commission Expires:

Acting in the County of

City Clerk City of Troy 500 W. Big Beaver Road Troy, MI 48084

Aileen Dickson

INDEX OF EXHIBITS

- EXHIBIT A Legal Description of Property.
- <u>EXHIBIT B</u> PUD Application (including Concept Development Plan and supporting materials).
- EXHIBIT C Planning Commission Minutes and Resolution of January 24, 2023
- <u>EXHIBIT D</u> City Council Meeting Minutes and Resolution of March ___, 2023
- **EXHIBIT E** Preliminary Site Plan Documents

EXHIBIT A

LEGAL DESCRIPTION OF PROPERTY

Land situated in the City of Troy, County of Oakland, and State of Michigan, being more particularly described as follows:

Part of the Southeast 1/4, Section 8, Town 2 North, Range 11 East, City of Troy, Oakland County, Michigan, beginning at point distant South 87 degrees 15 minutes 31 seconds West 90.00 feet and North 02 degrees 37 minutes 54 seconds West 75.00 feet from Southeast Section corner; thence South 87 degrees 15 minutes 31 seconds West 1328.70 feet along Northerly right of way line of Long Lake Road; thence North 02 degrees 30 minutes 26 seconds West 489.76 feet; thence along curve to right, radius 710.00 feet, chord bears North 11 degrees 45 minutes 00 seconds East 349.71 feet, distance of 353.35 feet; thence North 87 degrees 15 minutes 31 seconds East 1240.77 feet; thence South 02 degrees 37 minutes 54 seconds East 828.33 feet along Westerly right of way line of Crooks Road to beginning, EXCEPT that part lying Southerly and Southwesterly of line described as beginning at point distant South 87 degrees 15 minutes 31 seconds West 90 feet and North 02 degrees 37 minutes 54 seconds West 100 feet from Southeast Section corner; thence South 87 degrees 15 minutes 31 seconds West 934.70 feet; thence North 02 degrees 30 minutes 26 seconds West 10 feet; thence South 87 degrees 15 minutes 31 seconds West 364 feet; thence North 47 degrees 37 minutes 28 seconds West 43 feet to point of ending, also EXCEPT that part lying Easterly and Southeasterly of line described as beginning at point distant South 87 degrees 15 minutes 31 seconds West 130 feet and North 02 degrees 37 minutes 54 seconds West 100 feet from Southeast Section corner; thence North 42 degrees 18 minutes 48 seconds East 42.47 feet; thence North 02 degrees 37 minutes 54 seconds West 310 feet to the point of ending.

Tax Parcel No.: 20-08-477-001

Exhibit B

Application Materials

CITY OF TROY PLANNED UNIT DEVELOPMENT CONCEPT DEVELOPMENT PLAN (CDP) APPLICATION AND APPLICATION TO AMEND THE ZONING DISTRICT MAP

CITY OF TROY PLANNING DEPARTMENT

TO THIS REQUEST FOR PLANNED UNIT DEVELOPMENT.

500 W. BIG BEAVER TROY, MICHIGAN 48084 PHONE: 248-524-3364

E-MAIL: planning@troymi.gov



CONCEPT DEVELOPMENT PLAN FEE \$3,000.00

\$5,000.00

PRIOR TO THE SUBMISSION OF AN APPLICATION-FOR APPROVAL OF A PLANNED UNIT DEVELOPMENT, THE APPLICANT SHALL HOLD A PRE-APPLICATION MEETING WITH THE PLANNING DEPARTMENT OF THE CITY AND ANY CITY STAFF AND OUTSIDE CONSULTANTS AS DEEMED APPROPRIATE BY THE CITY.

DA	ATE OF PRE-APPLICATION MEETING: September 25, 2020	
	EGULAR MEETINGS OF THE CITY PLANNING COMMISSION ARE DNTH AT 7:00 P.M. AT CITY HALL.	HELD ON THE SECOND AND FOURTH TUESDAYS OF EACH
1.	NAME OF THE PROPOSED DEVELOPMENT: Long Lake	e & Crooks Masterplan Development
2.	2. LOCATION OF THE SUBJECT PROPERTY: Northwest corner - Long Lake & Crooks	
3.	ZONING CLASSIFICATION(S) OF THE SUBJECT PROPER	TY: Current Zoning - Office
4.	TAX IDENTIFICATION NUMBER(S) OF SUBJECT PROPER	RTY:
5.	APPLICANT:	PROPERTY OWNER:
	NAME Chris Beck	NAME Tony Antone
	COMPANY Gensler	COMPANY Long Lake Crooks Development Associates
		ADDRESS 39400 Woodward Ave, Suite 250
	CITY Detroit STATE MI ZIP 48226	
		TELEPHONE 248.644.7600
	E-MAIL_ chris_beck@gensler.com	E-MAIL tantone@Kojaian.com
6.	THE APPLICANT BEARS THE FOLLOWING RELATIONSHIP TO THE OWNER OF THE SUBJECT PROPERTY: Owner's Architect	
7.	ATTACHED HERETO IS A SIGNED STATEMENT BY THE APPLICANT INDICATING THE APPLICANT HAS THE AUTHORITY TO EXECUTE A BINDING ACRES TO COVERING ALL PARCELS IN THE PROPOSED P.U.D.	
8.	SIGNATURE OF APPLICANT	DATE 11.18.20
9.	SIGNATURE OF PROPERTY OWNER	1 Cabo DATE 11 117 /200
	BY THIS SIGNATURE, THE PROPERTY OWNER AUTHORIZES PLACE	MENT OF A SIGN ON THE PROPERTY TO INFORM THE PUBLIC AS

PLANNED UNIT DEVELOPMENT CONCEPT DEVELOPMENT PLAN (CDP) PRE-APPLICATION MEETING CHECKLIST

THE APPLICANT SHALL PROVIDE A MINIMUM OF THREE (3) COPIES OF THE FOLLOWING ITEMS, PLUS ONE (1) CD CONTAINING AN ELECTRONIC VERSION OF THE APPLICATION, TO THE PLANNING DEPARTMENT AT OR BEFORE THE PRE-APPLICATION MEETING. SEE SECTION 11.06(A).

- A SKETCH PLAN OF THE PROPOSED PLANNED UNIT DEVELOPMENT
- LEGAL DESCRIPTION OF THE PROPERTY, SCALE DRAWING AND THE TOTAL NUMBER OF ACRES IN THE PROJECT
- TOPOGRAPHICAL MAP OF THE PROJECT SITE
- A STATEMENT OF ALL PROPOSED USES IN THE PROJECT.
- THE KNOWN DEVIATIONS SOUGHT FROM THE ORDINANCE REGULATIONS OTHERWISE APPLICABLE
- THE NUMBER OF ACRES TO BE PRESERVED AS OPEN OR RECREATIONAL SPACE AND THE INTENDED USES OF SUCH SPACE
- ALL KNOWN NATURAL RESOURCES, NATURAL FEATURES, HISTORIC RESOURCES AND HISTORIC FEATURES; WHICH ARE TO BE PRESERVED
- A LISTING AND SPECIFICATION OF ALL SITE DEVELOPMENT CONSTRAINTS

PLANNED UNIT DEVELOPMENT CONCEPT DEVELOPMENT PLAN (CDP) CHECKLIST

THE FOLLOWING INFORMATION AND MATERIALS ARE NECESSARY FOR SUBMISSION. FOR A DETAILED DESCRIPTION OF REQUIRED ITEMS, SEE SECTION 11.06(C) OF THE ZONING ORDINANCE.

REQUIRED FEE
ONE (1) CD CONTAINING AN ELECTRONIC VERSION OF THE APPLICATION AND ONE (1) COPY OF THE DRAFT DEVELOPMENT AGREEMENT (PDF Format)
application shall include TWO (2) hard copies of the following information and materials, which shall be in an format together with a narrative explanation.
Date(s) and location of all meetings with representatives of adjoining neighborhoods, minutes and attendance record(s) of such meeting(s).
Certified boundary survey including legal description of the property, scale drawing and the total number of acres in the project.
Development concept: A summary explanation of the development concept shall describe the project and explain how the project will meet the intent of the PUD option as set forth in Section 11.01 and the criteria for consideration as a PUD as set forth in Section 11.03 hereof, as those sections reasonably apply to the site.
Density: The maximum density of the overall project and the maximum density for each proposed use and phase.
Road system: A general description of the road system and circulation pattern; the location of roads, entrances, exits and pedestrian walkways; a statement whether roads are intended to be public or private. Efforts shall be made to ensure that multiple transportation modes are safely and effectively accommodated in an effort to provide alternate modes of access and alleviate vehicle traffic congestion particularly as it pertains to the improvements along major roads.
Utilities: A general description and location of both on-site and off-site utilities including proposed water, sanitary sewer, storm sewer systems and utility lines; a general indication of the size and location of stormwater detention and retention ponds, and a map and text showing off-site utilities, existing and proposed, which will provide services to the project.
Open space/common areas: A general description of proposed open space and common areas; the total area of open space; the total area of open space in each proposed phase; the proposed uses of open space and common areas.
Uses: A list of all proposed uses; the location, type and land area to be devoted to each use, both overall and in each phase; a demonstration that all of the proposed uses are permitted under this Article.
Development guidelines: A plan of the site organization, including typical setback and lot dimensions; the minimum lot sizes for each use; typical minimum and maximum building height and size; massing models; conceptual building design; and the general character and arrangement of parking; fencing; lighting; berming; and building materials.
Parking and Traffic: A study of the parking requirements and needs; a traffic impact study and analysis.
Landscaping: A general landscaping plan; a landscape plan for entrances; a landscape plan for overall property perimeters; any theme/streetscape design; any proposed irrigation.
Natural resources and features: Floodway/floodplain locations and elevations; wetlands and watercourses;

PLANNED UNIT DEVELOPMENT CONCEPT DEVELOPMENT PLAN (CDP) CHECKLIST (page 2)

Phasing information: The approximate location, area and boundaries of each phase; the proposed sequence of
development, including phasing areas and improvements; and the projected timing for commencement and
completion of each phase.

- Public services and facilities: A description of the anticipated demand to be generated by the development for public sewer, water, off-site roads, schools, solid waste disposal, off-site drainage, police and fire; a description of the sufficiency of each service and facility to accommodate such demands; the anticipated means by which any insufficient services and facilities will be addressed and provided.
- Historical resources and structures: Their location, description and proposed preservation plan.
- Site topography.
- Signage: General character and location of entrance and internal road system signage; project identification signage; and temporary or permanent signage proposed for any other locations.
- Amenities.
- Zoning classification: Existing zoning classifications on and surrounding the site.
- Specification of deviations: A specification of all deviations proposed from the regulations which would otherwise be applicable to the underlying zoning and to the proposed uses, which are proposed and sought for any phase or component of the Planned Unit Development; the safeguards, features and/or planning mechanisms proposed to achieve the objectives intended to be accomplished by any regulation from which a deviation is being sought.
- Community impact statement: A community impact statement, which shall provide an assessment of the developmental, ecological, social, economic and physical impacts of the project on the natural environmental and physical improvements on and surrounding the development site. Information required for compliance with other ordinance provisions need not be duplicated in the community impact statement.

ALL HARD COPY DRAWINGS SHALL BE FOLDED, STAPLED, SEALED AND SIGNED BY A STATE OF MICHIGAN PROFESSIONAL ENGINEER, REGISTERED ARCHITECT, REGISTERED LANDSCAPE ARCHITECT, OR PROFESSIONAL COMMUNITY PLANNER

PLANNING COMMISSION AGENDAS ARE ELECTRONIC

PLANNED UNIT DEVELOPMENT CONCEPT DEVELOPMENT PLAN (CDP) CHECKLIST

Neighborhood meeting:

Communication to immediate neighbors of the property was issued March 11, 2021 to solicit neighborhood comments regarding the proposed masterplan. The communication offered neighbors the opportunity to participate in either a virtual zoom meeting, or comment individually via written response. Neighbors included those to the west, along Corporate Drive, to the south, along Long Lake, and to the east, across Crooks. The developer of this proposed property owns the immediate property to the north. The masterplan graphic, along with contact information for responses to be submitted were included in the mailed communication to each of the neighbors.

No responses were received from any of the neighbors and as such no virtual meeting occurred.

See following page for copy of letter submitted.

Fax 313.965.8060

Gensler

03.11.21

Dear Mr. Dugan:

Re: 1175 W. Long Lake Rd

Troy, Michigan

You are being sent this letter as the owner of the above referenced property based on a review of publicly available information. Long Lake Crooks Development Associates, L.L.C. (the "Developer") intends to develop the vacant 24.08 property located at the northwest corner of the intersection of Crooks Road and Long Lake Road. It is planned to be a mixed-use development.

The Developer is required to notify nearby landowners of the proposed development and ask for comments. A proposed concept masterplan is enclosed for your reference. If you wish to verbally comment, please email Chris Beck no later than March 29th, 2021. A virtual Zoom meeting will be set up for you to provide verbal comments. Alternatively, you may also provide written comments to the undersigned no later than April 5th, 2021 by sending an email to chris_beck@gensler.com.

Before this development will occur, it must be thoroughly reviewed and approved by the City of Troy. The City will likely be in contact with you to advise you of the time and place of any public hearing that may be required for this development.

Thank you.

Chris Beck, AIA, LEED-AP BD&C Senior Associate

Gensler

Attachment: Crooks & Long Lake Masterplan

C: Brent Savidant (via email)

CROOKS & LONG LAKE // MASTER PLAN



LONG LAKE & CROOKS CONCEPT DEVELOPMENT PLAN

KOJAIAN + GENSLER + PEA GROUP + FLEIS & VANDENBRINK | NOVEMBER 28, 2022 | CDP

Planned Unit Development – Concept Development (CDP) Submittal

Project: Long Lake & Crooks Masterplan Development Original Submission Date: April 22, 2022 Revised Submission Date: November 28, 2022

City of Troy, Planning Department City of Troy, 500 W. Big Beaver Rd., Troy, MI 48084



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(248) 644-7600
Contact: Anthony G. Antone, Vice President

Gensler

Gensler 150 West Jefferson, Suite 1700 Detroit, MI 48226 (313) 496-8966 Contact: Chris Beck, Project Manager



Fleis & Vandenbrink 27725 Stansbury Blvd., Suite 195 Farmington Hills, MI 48334 (248) 342-5786 Contact: Julie Kroll, PE, PTOE

PEA GROUP

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Dawda, Mann, Mulcahy, & Sadler 39533 Woodward, Suite 200 Bloomfield Hills, MI 48304 (248) 642-4248 Contact: Tyler D. Tennent

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A. Certified Boundary Survey – Refer to Appendix: Sheet C-1

Legal Description of Property

A parcel of land in a part of the southeast quarter of Section 8, T.02N., R.11 E., City of Troy, County of Oakland, State of Michigan described as follows:

Commencing at the Southeast corner of Section 8, T.02N., R.11 E., City of Troy, County of Oakland, State of Michigan, thence South 87 degrees 15 minutes 31 seconds West 130.00 feet; thence North 02 degrees 37 minutes 54 seconds West 100.00 feet to the north line of Long Lake Road (width varies) and the POINT OF BEGINNING: thence along the said north line the following three (3) courses and distances 1) South 87 degrees 15 minutes 31 seconds West 894. 70 feet; 2) North 02 degrees 30 minutes 26 seconds West 10.00 feet; 3) South 87 degrees 15 minutes 31 seconds West 364.00 feet; thence North 47 degrees 37 minutes 28 Seconds West 42.26 feet to the easterly line of Corporate Drive (120' wide); thence North 02 degrees 30 minutes 26 seconds West 424.81 feet to a point of curvature; thence 353.35 feet along a curve to right, said curve having a radius 710.00 feet, a central angle of 28 degrees 30 minutes 52 seconds, and a chord that bears North 11 degrees 45 minutes 00 seconds East 349.71 feet; thence North 87 degrees 15 minutes 31 seconds East 1240. 77 feet to the west line of Crooks Road (width varies); thence along said west line the following three (3) courses and distances: 1) South 02 degrees 37 minutes 54 seconds East 463.36 feet; 2) South 87 degrees 22 minutes 06 seconds West 10.00 feet; 3) South 02 degrees 37 minutes 54 seconds East 310.00 feet; thence South 42 degrees 18 minutes 48 seconds West 42.47 feet to the POINT OF BEGINNING.

Parcel 20-08-477-001 Vacant Land

B. Development Concept:

Long Lake Crooks Development Associates, L.L.C. (the "Developer") proposes a mixed-use development within the approximate 24.08-acre site bound by Long Lake Road to the south, Crooks Road to the east and Corporate Drive to the west (the "Site"). In concept, this development is envisioned to offer various needed services to the Long Lake corridor and surrounding community and create a development of mixed horizontal and vertical forms. The Site has the potential to be comprised of workplace / medical office space, retail, commercial, residential, and hospitality uses, with the desired overall potential of maximizing the developmental area and providing interconnectivity for vehicles and pedestrians.

The overall phasing of the development will be dependent on the market and the Developer's success and cadence in acquiring prospective users. Final Site configurations will be contingent on such cadence and specific user requirements, both of which will influence final building massing, location, and overall Site character. Final development solutions for each use will be individually issued for approval as part of the preliminary and final development approval process during future timeframes.

The basis of the documentation included within this Concept Development Plan and the PUD application is to demonstrate the desired intent of the overall Site development over a period of time. It is conceptual in nature, however, demonstrates a thoughtful and desired solution to the Site for which a planned unit development zoning status is needed. The descriptions and illustrations within this application form the basis of the development concept.

Development Areas:

The Concept Development Plan envisions several Site components identified as development areas (refer to appendix sheet A-6). Although sequentially numbered, these development areas are not intended to reflect a specific order of cadence, but to identify separate areas within the overall Site that will be developed through a phased approach.

<u>Development Area 1</u>: A residential component is intended for the northwest corner of the Site that will foster a permanent population and enhance further development of the remaining development areas. This residential component will support the increasing demands of the City's housing needs and satisfy a key component in the intended live / work / play environment the Site is focused to achieve.

<u>Development Area 2</u>: The largest development area of the Site is proposed for workplace / medical office and is generally intended to be the anchor development within the overall Site. This development area will support the functional needs of prospective users of the Site and/or nearby residents, bringing significant growth opportunities for the City and further energizing the area. If developed for either single anchor or multi-tenant configurations, the buildings in this development area will support the flexible workplace environment tenants seek within Class-A office/flex-tech space.

<u>Development Area 3</u>: This development area reflects an additional opportunity for added workplace, office, retail, and residential use. Centered within the Site, this development area can act as either a standalone anchor development or as an expansion of use based on the success of either Development Areas 1 & 2. Supporting parking will be included within the development footprint.

<u>Development Area 4</u>: The development area is for lodging with an intended inclusion of an anchor hotel. The building will be designed so that it is easily convertible to residential, (apartment or condominium), use if desired in the future. Currently located on the southwestern corner of the Site, the final location of the hotel may adjust along Corporate Drive dependent on the final retail / restaurant configuration in other areas of the Site. As with the retail and residential components, the hotel is deemed as an asset to both the immediate Site as well as the broader community.

The remaining areas along Long Lake, as illustrated on the Concept Development Plan, offer retail / restaurant opportunities. These intended areas provide destinations for the surrounding community while also supporting other developments on the Site. They are smaller in scale and are intended to energize the Long Lake and Corporate Drive frontage for both vehicular and pedestrian foot traffic by becoming favorite 'go-to' locations. They are not considered a separate development area, but intended to be built either as part of any phase of the development or separately after 50% completion of the first phase.

A combination of surface and structured parking will support the development of the Site based on the expected development uses. Surface parking will support the needs of the short-term visitors of office, retail, and hotel uses, while structured parking, situated away from the high visibility of Long Lake and Crooks will support the daily occupants of the larger office and mixed-use buildings. Each development area will meet all parking requirements as mandated for its use within the City guidelines.

The Developer requests the flexibility to choose the locations of each permitted use within a development area, the sequence of development, and the specific features and boundaries of

each area depicted in the Concept Development Plan. Market forces and user requirements are constantly changing. As a result, the PUD zoning concept, together with an appropriate Development Agreement, will facilitate this flexibility and encourage development without adversely impacting the preliminary and final development plan approval processes required by the City under the Zoning Ordinance.

All development areas shall be integrated through design elements including but not limited to architecture, materials, landscaping, pedestrian connectivity, street connectivity, and shared parking and in accordance to all City requirements.

Landscaping shall meet or exceed required landscaping for similar projects as per Chapter 39, Section 13.02.

Temporary undeveloped portions of the Site shall be appropriately maintained including grass cutting, snow removal, keeping the Site free of refuse, etc.

Amenity Areas:

Various amenities will be required as part of the development areas as shown in the Concept Development Plan – Amenity Zones (refer to appendix sheet A-7). The overall configuration of amenity areas is flexible however they have been purposefully located and sized based on proximity and use of each development area as well as connectivity and access to each other and the local community. Overall, amenity areas account for approximately 135,000 SF, (3 acres), of the total Site area, or 12%.

The amenity areas as illustrated include the following:

Amenity Area 1A: Open green spaces for flexible use, community seating areas / built shelters and fire pits.

Amenity Area 1B: Dog park, walking path.

Amenity Area 2A: Landscape / public art - sculpture garden, walking paths and seating.

Amenity Area 2B: Fitness path, pickle ball courts.

Amenity Area 3: Open green space, bocce ball, food truck staging area.

Overall: Connecting pathways/sidewalks allow both internal and public pedestrian access and engagement across all amenity areas. Continuity of landscape, vegetation and site furnishings will provide a cohesive and connected aesthetic across all parts of the Site.

Natural Areas:

Approximately 3.6 acres of natural wetland will be preserved on the Site, located within two distinct areas, <u>Natural Area 1</u> and <u>Natural Area 2</u>, as illustrated in the Concept Development Plan (refer to appendix sheet A-7). No development will occur within the natural areas. Viewed as part of the overall Site amenities, the wetlands further enhance the natural landscape and create buffers between development areas that support a more open site environment and will helping to minimize the appearance of overall densification. Vegetation within these areas will remain

untouched, except as may be required by the permitting authorities or to facilitate opportunities to clear low lying scrub vegetation for visual access as well as physical approach along the wetland boundaries.

Amenity areas have strategically been placed adjacent to these natural wetlands to further increase the openness and outdoor offerings to users of the Site and public alike.

C. Location Map - Refer to Appendix: Sheet C-0

D. Land Use Map – Refer to Appendix: Sheet A-1

Properties adjacent to site are: Office, Retail/Restaurant and Cemetery

E. Certified Boundary Survey – Refer to Appendix: Sheet C-1 Topographic Survey

F. Density Analysis:

	Zoning	Proposed
District	Max. % of Building Coverage	
OM - Office Mixed Use	40%	37%
UR – Urban Residential	50%	N/A
GB – General Business	N/A	10%
Overall Site	N/A	27%

G. Road/Circulation System

- Private Roads within Site
- Entrances
 - Crooks Road Boulevard
 - Main Entry with deceleration lane / Exit
 - Long Lake Road Boulevard
 - Main Entry with deceleration lane / Exit
 - Retail / Restaurant entry with deceleration lane / Exit
 - Corporate Drive Boulevard
 - Main Entry with deceleration lane / Exit
 - Hotel entry with deceleration lane / Exit
- Circulation Pattern
 - o Main routes are East to West from Crooks Road to Corporate Drive
 - Intersecting route from Long Lake Road
- Pedestrian walkways throughout the Site to provide walkability and easy access to amenities

H. Utilities - Refer to Appendix: Sheet C-3 Conceptual Utility Plan

- Gas Connect to existing from Crooks Road
- Electric Connect to existing from Long Lake Road
- Water / Fire
 - Connect to existing watermain from Corporate Drive
 - Connect to existing watermain from Crooks Road
- Sanitary Sewer Connect to existing from Long Lake Road
- Communications Connect to existing from Long Lake Road
- Storm
 - o Connect to the existing structure at the corner of Crooks Road and Long Lake
 - Underground detention area in parking lot near Detention Pond
 - o Detention Area will feature a natural pond with walking path and landscaping

I. Open Space/Common Areas:

The Site is currently vacant and not accessible to the public. The Concept Development Plan envisions that a portion of the Site will provide a park like setting and access to the pedestrian boulevards and retail/restaurants, which can be used at the leisure of residents and visitors. This interconnectivity to the Site features and outdoor amenities is a recognizable public benefit.

Open space is incorporated to the greatest extent possible while balancing building, parking and circulation needs within the boundaries of the Site. Open, vegetated areas are located to minimize large scale hardscape zones. Public access is focused primarily to the southern end of the Site, along the Long Lake corridor.

Continuous paved walking paths wrap the development area, connecting open spaces, as well as the incorporation of a potential natural pathways and seating areas.

Native, high quality, vegetation replaces the current low value tree stock and is intended to be incorporated throughout the development areas within open/common spaces, softening the more formal approach of the buildings and balancing human scale to surrounding built environment.

Refer to Appendix: Sheet C-2.0 and Sheet A-7 for Conceptual Site Plan, natural area, and site amenity diagramming.

J. Uses: Refer to Appendix: Sheet A-6, A-8, A-9, A-10, A-11

- Lodging / Residential
- Retail / Restaurant
- Office / Medical / Residential
- Parking Surface / Deck

The proposed uses are to be a mixture of commercial, retail, residential, and office, (live / work / play) with both structured and surface parking. All uses are subject to Preliminary Development Plan Approval and described as follows:

<u>Development Area 1</u>: Residential uses permitted as of right or requiring special approval, and their accessory uses, consistent with such uses in the UR – Urban Residential District and all associated surface parking.

<u>Development Area 2</u>: Office uses permitted as of right or requiring special approval, and their accessory uses, consistent with such uses in the OM - Office Mixed Use District, the O - Office District, or the GB-General Business District, as referenced in the Zoning Ordinance, and a multistory parking structure and surface parking features.

<u>Development Area 3</u>: Residential uses permitted as of right or requiring special approval, and their accessory uses, consistent such uses in the UR – Urban Residential District as referenced in the Zoning Ordinance and all associated surface parking; Office uses permitted as of right or requiring special approval, and their accessory uses, consistent with such uses in the OM - Office Mixed Use District, the O - Office District, or the GB-General Business District, as referenced in the Zoning Ordinance; "Restaurant" and/ or "Retail Business or Retail Sales" uses as defined by the Zoning Ordinance; Conference, meeting, and banquet facility uses permitted as of right or requiring special approval, and their accessory uses consistent with such uses the GB - General Business District in the Zoning Ordinance; and, all associated surface parking.

<u>Development Area 4</u>: Lodging or extended stay facility uses permitted as of right or requiring special approval, and their accessory uses, consistent with such uses in the GB – General Business District identified in the Zoning Ordinance; and, Residential uses permitted as of right or requiring special approval, and their accessory uses, consistent such uses in the UR – Urban Residential District as referenced in the Zoning Ordinance and all associated surface parking.

Restaurant/Retail Areas: "Restaurant" and/ or "Retail Business or Retail Sales" uses as defined by the Zoning Ordinance, and their accessory uses, and all associated surface parking.

Amenity Area 1A: "Open Space" as defined by the Zoning Ordinance for use as an open field activity area.

Amenity Area 1B: "Open Space" as defined by the Zoning Ordinance for use as a dog park.

Amenity Area 2A: "Open Space" as defined by the Zoning Ordinance for use as a public art or sculpture garden.

Amenity Area 2B: "Open Space" as defined by the Zoning Ordinance for use as a fitness trail and pickle ball courts.

Amenity Area 3: "Open Space" as defined by the Zoning Ordinance for use as a bocce ball court and outdoor seating.

<u>Natural Areas A and B</u>: Restricted from development and shall remain in an "Undeveloped State" as defined in the Zoning Ordinance.

K. Development Guidelines:

DISTRICT	MAX SQUARE FOOTAGE	MIN # FLOORS	MIN BUILDING HEIGHT	MAX# FLOORS	MAX BUILDING HEIGHT
DEVELOPMENT AREA 1	350,000 sf	3	40'	7	90'
DEVELOPMENT AREA 2	500,000 sf	4	60'	10	150'
DEVELOPMENT AREA 3	350,000 sf	4	60'	10	150'
DEVELOPMENT AREA 4	105,000 sf	3	40'	7	90'
RETAIL/RESTAURANT AREAS	18,000 per building	1	17.5'	2	35'

See Sheet A-12 for massing

MINIMUM SETBACKS (measured from perimeter property lines or public rights of way)

DISTRICT	FRONT	SIDE	REAR
	SETBACK	SETBACK	SETBACK
DEVELOPMENT AREA 1	10'	20'	30'
DEVELOPMENT AREA 2	10'	20'	30'
DEVELOPMENT AREA 3	10'	20'	30'
DEVELOPMENT AREA 4	10'	20'	30'
RETAIL/RESTAURANT	10'	20'	30'
AREAS			

L. Traffic Impact Study:

Refer to Appendix: Sheet TR-1 - Traffic Impact Study and Shared Parking Study.

Executive Summary

This report presents the results of a Traffic Impact Study (TIS) for the proposed master plan development located generally in the northeast quadrant of the Long Lake Road and Corporate Drive intersection adjacent to the west side of Crooks Road in Troy, Michigan.

This analysis is based on the conceptual development plan included with the application. This study includes an evaluation of the highest trip generation for the potential uses of the Site, thereby providing a conservative analysis. The land uses included herein were assumed for analysis purposes and do not necessarily reflect the actual proposed land uses on this Site.

The proposed conceptual plan evaluated in this study includes the development of the approximately 24-acre parcel with office, hotel, and retail/restaurant land uses. Parking for the Site was assumed to be provided through a combination of parking structures and surface parking. The Site access will be finalized at the site plan phase of the project, however for this analysis access was assumed via seven (7) site driveways; two (2) on SB Crooks Road, two (2) on Long Lake Road, and three (3) on Corporate Drive. Long Lake Road and Crooks Road are under the jurisdiction of the Road Commission for Oakland County (RCOC), whereas Corporate Drive is under the jurisdiction of the City of Troy.

The scope of this study was developed based on Fleis & VandenBrink's (F&V) knowledge of the study area, understanding of the development program, accepted traffic engineering practice and information published by the Institute of Transportation Engineers (ITE), and pursuant to the requirements of the City of Troy and the RCOC. Additionally, F&V solicited input regarding the scope of work from the City of Troy's engineering consultant (OHM Advisors).

Background Data

Due to the impacts of COVID-19 and the subsequent closures of businesses and schools, current traffic volume data is not representative of "typical" operations. In addition, the on-going construction on I-75 has significant impacts on the traffic volumes throughout the study network. Therefore, the traffic volume data necessary for this study were obtained from multiple sources:

- SCATS volume data was obtained from RCOC at the signalized study intersections within the network for use in this study. The SCATS data utilized for this study was obtained for September 13, 2018, prior to COVID-19 and the I-75 construction impacts.
- F&V subconsultant Traffic Data Collection, Inc. (TDC) performed weekday AM (7:00 AM to 9:00 AM) and PM (4:00 PM to 6:00 PM) peak hour turning movement counts on Wednesday, October 6, 2020 at the unsignalized intersections.

A 0.5% annual background growth rate was applied to the 2018 signalized traffic volumes to calculate the baseline 'existing' 2020 traffic volumes. COIVD-19 adjustment factors were applied at the unsignalized intersections to calculate the baseline 'existing' 2020 traffic volumes. The traffic volumes were then balanced upwards through the study network. 'Dummy nodes' were added at locations to account for sink and source volumes between intersections.

Trip Generation

The number of weekday peak hour (AM and PM) and daily vehicle trips that would be generated by the proposed development was forecast based on data published by ITE in the *Trip Generation Manual*, 10th Edition. The site trip generation forecast is summarized in **Table 1**. The proposed trip generation included in this analysis was reviewed with the City Traffic Consultant (OHM) prior to use in the study. *Note: Internal trip capture and pass-by trip reductions were not included in this study to provide a conservative analysis*.

Table E1: Trip Generation Summary

Land Use	ITE Amount		Units	Average Daily Traffic	AM Peak Hour (vph)			PM Peak Hour (vph)		
Laliu USC	Code	Amount	Ullits	(vpd)	In	Out	Total	In	Out	Total
High Turnover (Sit-down) Restaurant	932	54,000	SF	6,058	295	242	537	327	201	528
Hotel	310	308	Rooms	3,050	88	61	149	105	100	205
Medical-Dental Office Building	720	1,000,000	GFA SF	38,332	1,353	381	1,734	950	2,442	3,392
Total Trips				47,440	1,736	684	2,420	1,382	2,743	4,125

Site Trip Distribution

The site access for this analysis was assumed via seven (7) driveways: three (3) on Corporate Drive, two (2) on Long Lake Road, and two (2) on SB Crooks Road. The vehicular trips that would be generated by the proposed development were assigned to the study roads based on the proposed site access plan, the existing peak hour traffic patterns on the adjacent roadway network, and the methodologies published by ITE. The adjacent street traffic volumes were used to develop the trip distribution. In order to determine the projected site traffic distribution, it was assumed that the existing adjacent street traffic volumes in the AM are home-to-work based trips,

and in the PM are work-to-home based trips. Therefore, the trip distribution assumes trips are coming into the study network and entering the development for work in the AM peak hour, then leaving work and exiting the network towards home in the PM peak hour. The ITE trip distribution methodology assumes that new trips will return to their direction of origin. The site trip distribution used in the analysis is summarized in **Table E2**.

Table E2: Site Trip Distribution

From/To	Via	AM	PM
North	Crooks Road	28%	30%
South	Crooks Road	14%	19%
East	Long Lake Road	18%	17%
East	I-75 Ramp	28%	18%
West	Long Lake Road	12%	16%
	Total	100%	100%

Conclusions

The conclusions of this TIS are as follows:

Masterplan Development Assumptions

- This analysis is based on the Conceptual Development Plan included with the application. This study includes an evaluation of the highest trip generation associated with the potential uses for this Site. Therefore, the traffic analysis included herein provides a conservative analysis for this development. The land uses included herein were assumed for analysis purposes and do not necessarily reflect the actual proposed land uses on this Site.
 - The proposed conceptual plan evaluated in this study includes the development of the approximately 24-acre parcel with office, hotel, and retail/restaurant land uses.
 - Parking for the Site was assumed to be provided through a combination of parking structures and surface parking.
 - The site access will be finalized at the site plan phase of the project, however for this analysis access was assumed via seven (7) site driveways; two (2) on SB Crooks Road, two (2) on Long Lake Road, and three (3) on Corporate Drive.

Trip Generation Comparison

 A trip generation comparison analysis was performed to show the potential trip generation associated with development permitted under the existing Office (O) zoning. The results of the analysis indicate that the proposed development plan will generate more trips throughout the day and during both peak hours, as compared to a potential development currently permitted by right under the existing zoning.

Existing Conditions

- All approaches and movements at the study intersections currently operate acceptably, at LOS D or better during both peak periods, with the exception of the following:
 - The overall intersection of Crooks Road & Corporate Drive/I-75 Ramp is currently operating at LOS E during the AM peak period with multiple approaches and movements operating at LOS E and LOS F during both AM and PM peak periods.

- The southbound left-turn movement at the intersection of Corporate Drive & New King Drive is currently operating at LOS E during the AM peak period.
- The southbound approach at the intersection of EB Long Lake Road and Investment Drive is currently operating at LOS E during the AM peak hour and LOS F during the PM peak hour.
- The westbound right turn movement at the intersection of WB Long Lake Road & Corporate Drive is currently operating at LOS E during the AM peak hour.
- Review of SimTraffic network simulations indicates long vehicles queues at the signalized intersection of Crooks Road & Corporate Drive/I-75 Ramp during both peak periods. Microsimulations indicate acceptable operations at all other study intersections.

Background Conditions (without the proposed development)

- A conservative annual growth rate of 0.5% per year was applied to the 2020 traffic volumes in order to determine the background 2025 traffic volumes.
- The results of the background conditions analysis show that the study intersections will
 continue to operate in a similar manner to existing conditions, with some increases in the
 delay.

Future Conditions (with the proposed development)

- The results of the future conditions analysis show that, with the addition of the sitegenerated traffic, all study intersection approaches and movements will operate in a manner similar to existing and background conditions, with the exception of the following:
 - The intersection of Crooks Road & Corporate Drive/I-75 Ramp is expected to operate at LOS F during both AM and PM peak periods with significant increases in delay for the westbound approach during the AM peak hour and the eastbound approach during the PM peak hour.
 - The southbound left-turn on Crooks Road at Tower Drive exceeds the available storage length and impacts the upstream operation at the intersection of Crooks Road & Corporate Drive/I-75 Ramp.
 - The northbound left turn movement at NB to SB Crooks Road crossover north of Long Lake Road is expected to operate at LOS E during both AM and PM peak hours.
 - The southbound left turn movement at the SB to NB Crooks Road crossover north of Long Lake Road is expected to operate at LOS F during PM peak hour.
 - The southbound left turn movement at SB to NB Crooks Road crossover south of Long Lake Road is expected to operate at LOS F during the PM peak hour.
 - The eastbound right turn movement on the E. Site Drive at Crooks Road is expected to operate at LOS F during the PM peak hour.
 - The southbound right turn movement at WB Long Lake Road and S.E. Site Dr. is expected to operate at LOS F during the PM peak hour.
 - The westbound left turn movement at the N. Site Drive at the Corporate Drive is expected to operate at LOS E during the PM peak hour.

- The westbound left turn movement at the N.E. Site Drive & SB Crooks Road intersection is expected to operate at LOS F during the PM peak hour.
- The westbound left turn movement at the N.W. Site Drive & Corporate Drive intersection is expected to operate at LOS E and LOS F during the AM and PM peak hour, respectively.
- Review of SimTraffic network simulations indicates long vehicles queues at the signalized intersection of Crooks Road & Corporate Drive/I-75 Ramp during both peak periods. Additionally, long vehicle queues exceeding the available storage length were observed at the Tower Drive Crossover, the SB-to-NB Crossover located north and south of Long Lake Road. Microsimulations indicate acceptable operations at all other study intersections.

Access Management

- The results of the analysis indicate that right-turn deceleration tapers are recommended at the site driveways on Corporate Drive and full-width right-turn lanes are recommended at the proposed site driveway locations on Crooks Road and Long Lake Road.
- There are no site access driveways proposed at this time with this PUD. Therefore, the site access driveways will be further reviewed for access management and auxiliary lanes during the development of site plan(s) for this PUD.

Parking Study

- The proposed PUD includes the addition both surface parking spaces and one or more parking structures.
- A minimum of 4,580 parking spaces is recommended for this Site.

Project Phasing

There is no identifiable phasing plan at this juncture of the proposed development. The
overall development is assumed to be phased over time, based on tenant opportunities
and economic viability. As various areas are developed, a phasing plan will be formulated
in a manner where all parking and building requirements are met throughout each phase.

Recommendations

The recommendations of this TIS are as follows:

Recommended Intersection Improvement (Future 2025)

10 Crooks Road & Corporate Drive / I-75 Ramp

Eliminate the EB and WB left-turn movements and the split phasing

- Operate as median U-turn on east and west approaches.
- Construct new SB to NB crossover south of Corporate Drive.
- Construct additional westbound right-turn lane
- Extend the southbound left-turn storage length (~200 feet)

#30 NB Crooks Road & Tower Drive

Eliminate direct left turns and operate intersection with indirect left-turns.

- Close existing crossover at intersection
- Construct new NB to SB crossover north of Tower Drive

40 NB to SB Crooks Road X/O north of Long Lake Road

Provide signalization

50 SB to NB Crooks Road X/O north of Long Lake Road

Provide dual lane crossover

130 WB to EB Long Lake Road X/O west of Investment Drive

Provide signalization

#140 SB to NB Crooks Road X/O south of Long Lake Road

- Provide dual lane crossover
- Provide signalization

160 SB Crooks Road & E. Site Drive

- Provide dual right-turn egress
- Provide a right-turn deceleration lane on Crooks Road

170 Corporate Drive & N. Site Drive

- Provide a two-lane egress approach
- Provide a right-turn deceleration lane on Corporate Drive

180 Corporate Drive & W. Site Drive

Provide a right-turn deceleration lane on Corporate Drive

190 WB Long Lake Road & SW. Site Drive

Provide a right-turn deceleration lane on Long Lake Road

200 WB Long Lake Road & SE. Site Drive

- Provide a two-lane egress approach
- Provide a right-turn deceleration lane on Corporate Drive

210 NB to SB Crooks Road XO north of Corporate Drive

- Provide dual lane crossover
- Provide signalization

220 SB to NB Crooks Road XO south of Tower Drive (NEW)

- Provide dual lane crossover
- Provide signalization

230 NB to SB Crooks Road X/O north of Tower Drive

• Relocate crossover further south to accommodate a NB to SB X/O south of Corporate Drive

240 SB to NB Crooks Road X/O south of Tower Drive

- Provide dual lane crossover
- Provide signalization

250 SB Crooks Road & NE. Site Drive

- Provide dual right-turn egress
- Provide a right-turn deceleration lane on Crooks Road

260 Corporate Drive & NW. Site Drive

• Provide a two-lane egress approach

M. Landscaping: Refer to Appendix: Sheets: L-1, T-1, T-2 and T-3

- Landscaping will be designed per Article 13 of the City of Troy Zoning Ordinance.
- Tree Survey Originally completed May 15, 2019
 - o 1179 trees 6" DBH or greater were identified and tagged (18 on adjacent property)
 - o One (1) tree on the property is in Good condition (Silver Maple)
 - o Remaining trees are noted as Fair, Poor or Very Poor

N. Natural Resources/Features:

The Site topography is gently sloping from the west to the east (elevation 800 to 774). Most of the Site drains to the southeast property corner and outlets into an existing culvert. Several areas of the property were shown to be disturbed with mounding, digging and evidence of earthwork/contour changes. No buildings or roads exist on the Site.

Wetlands – Refer to Appendix: Sheet A-2, C-1

Based upon the wetland delineation in March 2019, four (4) wetlands were found on the property. Two (2) wetlands were determined to be regulated by the Michigan Department of Environment, Energy & Great Lakes (EGLE). Wetland A and Wetland D is regulated by the City of Troy and EGLE and will need use permits for any impacts. Wetland A is dominantly scrub shrub with a dominance of common buckthorn (*Rhamnus cathartica*), riverbank grape (*Vitis riparia*) and silver maple (*Acer saccharinum*). Wetland D is primarily a scrub shrub wetland with a dominance of glossy buckthorn. The parcel did get processed through the State of Michigan's Wetland Assessment in June 2019. As determined by EGLE, a small stream was identified within the southern edge of Wetland A and drains directly into the existing storm end section. The on-site water travels within the storm pipe along Long Lake and discharges into the Sturgis Drain. It was this relationship to Sturgis Drain that EGLE determined the on-site water feature a stream and thus regulating Wetland A and D. Refer to Wetland Map below and review the included wetland report. Therefore, the City of Troy* and EGLE will require a use permit for Wetland A.

Refer to Wetlands Summary Report dated April 2, 2019 and Wetlands Identification Report from EGLE dated July 29, 2019

Woodlands – Refer to Appendix: Sheet A-4, T-1, T-2, T-3

Approximately, eighty-three percent (83%) of the 24-acre parcel is wooded. The woodland is split between upland and wetland. The table below provides a break-down of tree species counts and overall tree health condition. Based upon the 2019 tree survey, one thousand one hundred-eighty (1,180) trees were tagged based upon the City's tree ordinance of 6-inch diameter at breast height. Twenty-five (25) different tree species were identified on the parcel with 98.9% being deciduous and 1.1% being evergreen. A majority of the tagged trees showed signs of stress which lead to a poor to very poor overall health (82.8% trees were considered poor to very poor). Factors that contribute to a poor to very poor health condition include trunk rot, trunk alignment, pests/ disease, excessive vine coverings, lack of crown, major limb damage and limited twig growth. The higher quality trees which consists primarily of hardwoods are shown in the chart with bold text. They represent only approximately 20% of the woodland. Most of these trees were located within an old utility corridor in the western portion of the property. In addition, scrub shrub habitat was dominant on the parcel consisting mostly of common buckthorn (Rhamnus cathartica). Based upon the statistical data, the woodland represents a low-quality woodlot with a dominance of prohibited trees species as listed by the City (box elder, cottonwood, white and green ash, black locust, silver maple, white poplar, etc.). Tree replacements should focus on high-quality hardwood native and/or cultivars of native trees for re-establishment.

Table 1.0 – 2019 Tree Survey Health & Diversity Chart

Tree Type	Total Count	Poor/VP	Percentage of Total
American Beech	1	0	0.08%
American Elm	130	105	11.02%
Austrian Pine	5	5	0.42%
Basswood	60	38	5.08%
Black Locust	425	416	36.02%
Black Walnut	126	75	10.68%
Black Willow	1	1	0.08%
Blue Spruce	6	0	0.51%
Box elder	127	121	10.76%
Cottonwood	30	20	2.54%
Domestic Apple	8	8	0.68%
Green Ash	78	72	6.61%
Norway Maple	12	1	1.02%
Paper Birch	1	1	0.08%
Pear	1	1	0.08%
Red Maple	2	0	0.17%
Scotch Pine	2	2	0.17%
Shagbark Hickory	1	1	0.08%
Silver Maple	96	50	8.14%
Sugar Maple	8	2	0.68%
Thornapple/Hawthorne	25	25	2.12%
White Ash	1	1	0.08%
White Poplar	1	1	0.08%

Wild Black Cherry	23	22	1.95%
Yellow Birch	10	9	0.85%
TOTALS	1180	977 (82.80%)	100.00%
High Quality Tree Species	239	139 (58.16%)	20.25%
Deciduous Trees Evergreen Trees	1.10% 98.90%		

O. Parking Counts:

Refer to Appendix: Sheet TR-1 - Traffic Impact Study and Shared Parking Study, Section 10

P. Project Phasing:

There is no identifiable phasing plan at this juncture of the proposed development. The overall development is assumed to be phased over time, based on end-user opportunities and economic viability. As various areas are developed, a phasing plan will be formulated in a manner where all parking and building requirements are met throughout each phase.

Q. Public Services/Facilities:

Anticipated demand will be dependent upon the type of development and their uses. City of Troy has sufficient infrastructure to sufficiently support a development of this size and variety.

Much of the stormwater generated from the development will be collected and conveyed via an enclosed storm sewer network to an underground stormwater detention system. The underground detention system provides management of the stormwater rate and quality prior to its discharge into the Sturgis Drain.

R. Historical Resources and Structures:

Based upon available online resources and field observations, no known historic architecture, buildings, foundations and/or archeological features exist on the subject property. Historic aerial imagery suggests that the property was used primarily as agricultural property since 1940 to 1980.

From 1980, the site use changed to fallow field and developed into the wetlands and woodlands you see today. In 1963 – 1964, Interstate 75 was constructed, and Crooks Road entrance/ exit ramp was established. The introduction of the highway system energized the immediate surrounding area to develop into commercial and office/ mixed-use zoning.

Around 1999, the northern portion of the property was disturbed due to construction activity for the development of the office and mixed-use buildings and parking areas. In addition, the National Parks Services has only two sites listed on the historic register. The two listings are as follows:

- Brooks Farm: 3521 Big Beaver Road
- Caswell House: 60 West Wattles Road

Both historic sites are over 2.0 miles from the subject property. The proposed development will not adversely affect the listed historic parcels. The following figures show the progression of the subject parcel from 1940 through 1999. In summary, the parcel was heavily farmed for at least forty years with the last forty years being left to naturalized based upon its surroundings. Through

that time period, one house and accessory buildings have been shown to exist for approximately ten years.

Figure 4: 1940 B&W Aerial, Source: Oakland County Property Gateway. Property is utilized

as agricultural.

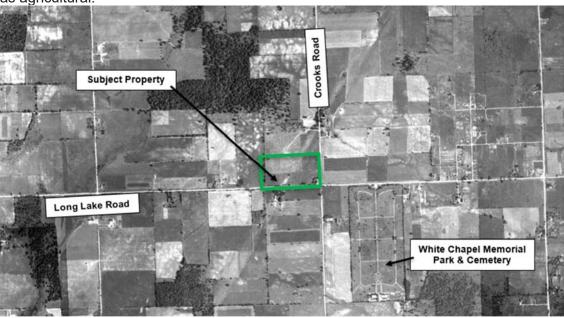


Figure 5: 1963 B&W Aerial, Source: Oakland County Property Gateway. Introduction of Interstate 75, house located in the southeast corner of property; overall property is utilized

as agricultural.



Figure 6: 1963 – Detail of house located at the southeast corner. House appears to be removed by 1974.

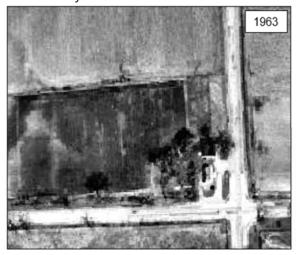




Figure 7: 1974 B&W Aerial, Source: Oakland County Property Gateway. Parcel continues as agricultural use



Figure 8: 1980 B&W Aerial, Source: Oakland County Property Gateway. It appears the parcel is not being farmed.



Figure 9: 1990 B&W Aerial, Source: Oakland County Property Gateway. Significant development surrounding the subject property with office and mix-use. From 1980 to 1990, Corporate Drive is constructed and Long Lake and Crooks Road becomes widen as a boulevard to address future traffic and growth.



Figure 10: 1999 B&W Aerial, Source - Google Earth. Parcel has developed wetlands and woodland area since approximately 1980 due to inactivity on the property (i.e. no farming, maintenance, etc.) Northern portion of the Site receives impacts from the construction activity to the north.



In summary, the Long Lake and Crooks Road 24-acre shares a similar history as most surrounding properties in Troy, Michigan. Once historically farmed, the Site was abandoned from farming and set aside for the future growth and development of the Detroit Metropolitan Area. As shown, this is one of the last large-scale pieces of property within the office and mixed-use zoning in the City of Troy. The resources on the Site are of poor quality due to the lack of land management or planning. As the surrounding properties were developed, this parcel received secondary impacts and disturbance which promotes pioneer plant and tree species to dominant.

S. Site Topography: Refer to Appendix: Sheet C-1

The Site topography is gently sloping from the west to the east (elevation 800 to 774). Most of the Site drains to the southeast property corner and outlets into an existing culvert. Several areas of the property were shown to be disturbed with mounding, digging and evidence of earthwork/contour changes. No buildings or roads were observed on the subject property.

T. Signage: Refer to Appendix: Sheet C-2

Final signage, based on individual area developments, will adhere to all city requirements / regulations as identified in City ordinances. In general, the following signage opportunities are assumed:

- Monument Signs Four (4) monument signs will be provided
 - Main Entrances on Crooks Road, Long Lake Road and Corporate Drive with tenant signage
 - Corner of Long Lake and Crooks with development signage
- Building Signs Signage will be provided for each of the structures within the property

• Directional Signs – Signage will be provided within the property related to parking, fire lanes, one-way traffic, etc.

U. Amenities:

Refer to Appendix: A-7 for locations and opportunities.

- Outdoor plazas to encourage interaction and engagement outside of the workplace.
- Outdoor dining areas opportunities within Retail / Entertainment locations as well as along 'pedestrian boulevard' where daily retail pop-ups can be incorporated.
- Pedestrian circulation paths and activity areas throughout the property for walkability, relaxation and encouragement of a healthy environment.
- Walking paths and activity areas for public and internal use.
- Public artwork

V. Existing Zoning Classification:

O - Office Building District Zoning

Development to support office uses and limited related retail and service uses which support an office environment.

Not supportive of prominent retail or other commercial components

Maximum height – 3 stories/ 36'
Density restrictions
Restaurants – not permitted
Hotel/Lodging – not permitted
Parking Decks – special approval only

W. Specification of Deviations:

The proposed re-zoning will shift from the current Site zoning of 'O' to the desired 'PUD', including variances of development use, maximum height and GSF.

X. Community Impact Statement:

As part of the North Troy Master Plan, the integration of mixed-use developments will help encourage the public to remain in the area outside of the typical 9 to 5 office hours, which in turn will grow and strengthen the local economy and develop a larger presence for the Northfield district. Given the location of the Site, this development is intended to act as a gateway into the district, spearheading North Troy's positioning within the larger city context. It is hoped that the development of this vacant site will encourage further strategic redevelopment of properties within the surrounding area as the next generation of growth.

The development will be pedestrian-friendly and readily accessible, encouraging users to move from building to building in a campus / park-like setting. By enhancing site walkability and creating desirable public and private destinations, this gateway corner will be rejuvenated with new life and vibrancy that the district has currently been void of.

APPENDIX

ZONING MAP



KOJAIAN

Long Lake & Crooks Concept Development Plan

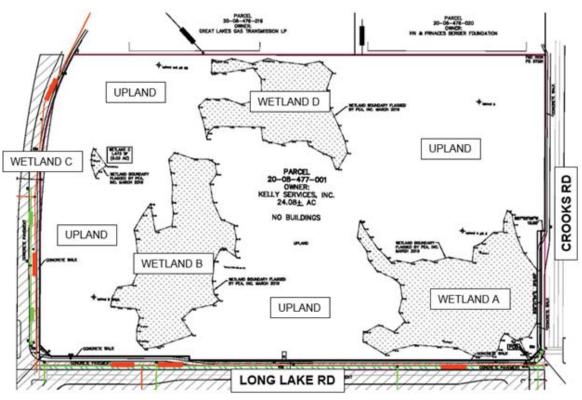
November 28, 2022 A-1

WETLANDS





WETLAND MAP



*City of Troy wetlands ordinance only regulates those wetlands regulated by the State of Michigan.



WOODLANDS





Long Lake & Crooks Concept Development Plan

CONCEPT DEVELOPMENT PLAN - OVERALL



Illustration is a representation of a potential future maximum buildout based on buildout of each Development Area.



CONCEPT DEVELOPMENT PLAN - DEVELOPMENT AREAS







DEVELOPMENT PLAN - AMENITY ZONES

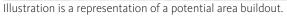






DEVELOPMENT AREA 1 - RESIDENTIAL







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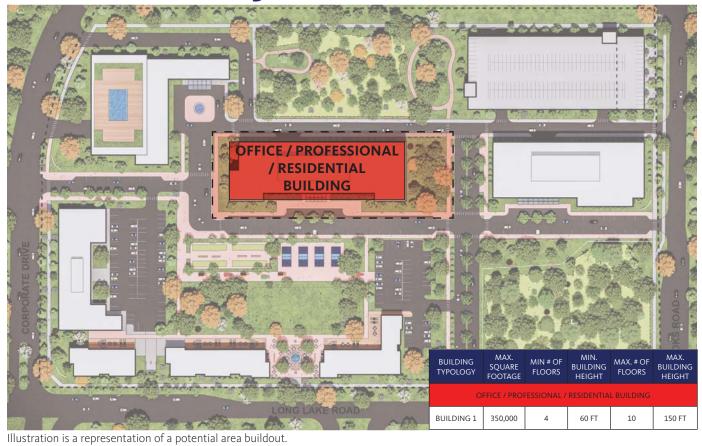
DEVELOPMENT AREA 2 - OFFICE / PROFESSIONAL



Illustration is a representation of a potential area buildout.



DEVELOPMENT AREA 3 - OFFICE / PROFESSIONAL / RESIDENTIAL





DEVELOPMENT AREA 4 - HOTEL / RESIDENTIAL



Illustration is a representation of a potential area buildout.



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RETAIL / RESTAURANT





Long Lake & Crooks Concept Development Plan

CONCEPT DEVELOPMENT PLAN - MASSING

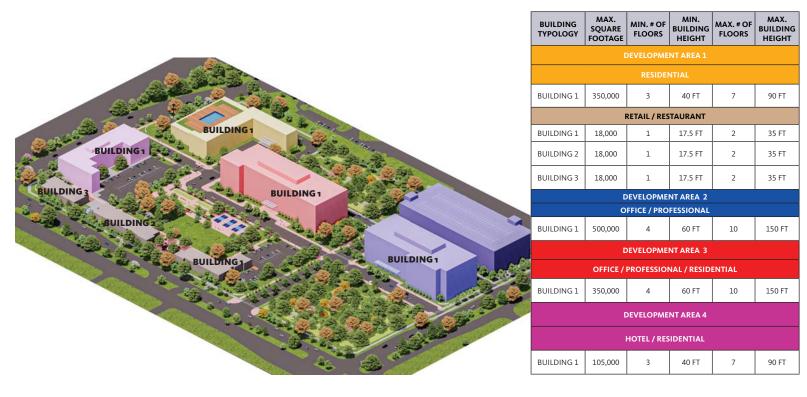


Illustration is a representation of a potential future maximum buildout based on buildout of each Development Area.



Long Lake & Crooks Concept Development Plan

November 28, 2022 A-13







































Exhibit C

Planning Commission Meeting Minutes

January 24, 2023

Chair Lambert called the Regular meeting of the Troy City Planning Commission to order at 7:00 p.m. on August 9, 2022, in the Council Chamber of the Troy City Hall. Chair Lambert presented opening remarks relative to the role of the Planning Commission and procedure of tonight's meeting.

1. ROLL CALL

Present:

Toby Buechner
Carlton M. Faison
Michael W. Hutson
Tom Krent
David Lambert
Lakshmi Malalahalli
Marianna Perakis
Sadek Rahman
John J. Tagle

Also Present:

R. Brent Savidant, Community Development Director Ben Carlisle, Carlisle Wortman Associates Julie Quinlan Dufrane, Assistant City Attorney Kathy L. Czarnecki, Recording Secretary

2. <u>APPROVAL OF AGENDA</u>

Resolution # PC-2022-08-043

Moved by: Krent Support by: Rahman

RESOLVED, To approve the Agenda as prepared.

Yes: All present (9)

MOTION CARRIED

3. <u>APPROVAL OF MINUTES</u> – July 26, 2022

Resolution # PC-2022-08-044

Moved by: Buechner Support by: Faison

RESOLVED, To approve the minutes of the July 26, 2022 Regular meeting as submitted.

Yes: Buechner, Faison, Hutson, Krent, Lambert, Malalahalli, Rahman, Tagle

Abstain: Perakis

MOTION CARRIED

4. PUBLIC COMMENT – For Items Not on the Agenda

There was no one present who wished to speak.

PLANNED UNIT DEVELOPMENT

PUBLIC HEARING – PLANNED UNIT DEVELOPMENT (File Number PUD 2020-0018)
 Proposed Concept Development Plan for Long Lake and Crooks Masterplan Development, Northwest Corner of Long Lake and Crooks, Section 8, Currently Zoned O (Office) Zoning District

Mr. Carlisle said the Planned Unit Development (PUD) application before the Board this evening is a formal submittal. He said the Planning Commission discussed two draft concept plans presented by the applicant at their January 12, 2021 and February 8, 2022 meetings.

Mr. Carlisle explained the three-step PUD application process and addressed the intent of a PUD application. He addressed highlights of the concept plan, proposed mix of uses, the changes since last reviewed, the four separate development areas proposed and associated amenities within those areas. Mr. Carlisle reviewed the applicant's proposed development parameters, relating to maximum square footage, minimum and maximum number of floors, minimum and maximum building height, and dimensional setbacks.

Mr. Carlisle said the applicant seeks flexibility to build any development area in any sequence, with one restriction that development area 4 (hotel/residential) and retail/restaurant pads can be built as part of any phase except they cannot be the first development built on site. He said the applicant seeks flexibility of all permitted and special uses in Office Mixed (OM), Office (O), or General Business (GB) zoning districts.

In summary, Mr. Carlisle asked the Board to consider public comments at the Public Hearing, and as part of their deliberation, to consider 1) the proposed development guidelines relating to building height and setbacks; 2) the proposed permitted and special uses; 3) if the PUD Standards in Section 11.03 of the Zoning Ordinance are met; and 4) if the proposed benefits are commensurate with the requested relief/development flexibility.

Mr. Savidant clarified a modification/correction to the development guidelines proposed by the applicant. Development area 1 (hotel/residential) should read 350,000 square feet, not 105,000 square feet.

Discussion among administration and Planning Commission:

- Flexibility in terms of what gets built, timing and location as proposed by applicant.
- Significance in determining appropriate uses and building heights.
- Gateway to North Troy and wayfinding signage.
- PUD Development Agreement.
 - Ms. Dufrane stated agreement is essentially standard agreement language except for unique aspects relating to development phases and development areas.
- Urban Residential (UR) zoning district; high density residential district in line with Master Plan.
- Preservation of State-regulated wetlands.
- Tree survey and mitigation; determined at each development phase, must meet site plan requirements.
- Green space/open space must be generally consistent with approved concept plan; what, where, size, whether for public use determined at each development phase and must meet site plan requirements.
- Housing types must be generally consistent with approved concept plan and must meet site plan requirements.

Anthony Antone of Kojoian introduced the project team present in the audience; Project Architect Chris Beck of Gensler, Attorney Tyler Tennent of Dawda Mann PLC, Environmental Engineer Leslie Accardo of PEA, and CEO of Hunter Pasteur Homes Randy Wertheimer.

Mr. Antone stated the residential component (development area 1) would be the first phase of development. He said the proposed uses for the overall project are residential, office and retail and are defined in the PUD Development Agreement. Mr. Antone said the development configuration is based on the market and potential clients. He noted configuration might change during the development process. Mr. Antone said the Stateregulated wetlands (1.9 acres) will remain as is. He addressed proposed development areas, phases and amenities. He indicated adjacent businesses were notified of the proposed project.

Mr. Rahman asked if the center building could be moved to the street and the parking structure moved to an internal location. At the request of Mr. Rahman, an image was displayed on the wall monitor depicting a large green courtyard surrounded by building(s).

Mr. Antone stated moving the center building to the street would not be sensible from an architectural or marketing standpoint.

Mr. Wertheimer said placing residential the furthest point from a heavily trafficked and noisy street is essential for success. He noted the sequence of development phases would be residential, amenities, office, restaurant and hotel. Mr. Wertheimer said development area 3 would be flexible on what the market determines.

Ms. Perakis expressed dissatisfaction in what she views as no changes in the concept plan since last presented to the Board even though the Board offered specific suggestions. She said there is nothing unique about the proposed *Gateway to North Troy* development. Ms. Perakis recommended suggestions for the creation of a destination for residents to live, work and play: 1) phase 1 should be a pedestrian boulevard along with paths and natural features; 2) the parking structure with retail on the first floor should be the anchor building in the center of the PUD; 3) the pedestrian boulevard should run parallel to Long Lake with retail along Long Lake that fronts the pedestrian boulevard; 4) access to the pedestrian boulevard should be off Crooks and Corporate Drive. At the request of Ms. Perakis, images were displayed on the wall monitor that depicted existing parking structures located in Ann Arbor, East Lansing and Detroit. Ms. Perakis referenced page 192 of the Master Plan, "Strategy: Create a community gathering space" and addressed the application's relationship to the PUD Standards.

Mr. Wertheimer stated details of the concept plan would come forth with each phase and at site plan submittal. He said the team's focus is on the first step of approval of a concept plan and they look forward to providing specific details with individual site plan submittals. Mr. Wertheimer said the project team is asking for a consensus on the uses, building sizes and building heights at this time. He stated that 25% of the site is open green space. Mr. Wertheimer apologized if he is misinterpreting the PUD process and addressed the importance of landscape and architectural designs that would be presented at site plan review and approval.

Ms. Malalahalli said the concept plan appears industrial, like four rectangular Lego blocks with too much parking. She encouraged a concept plan that would *wow* the Board, to incorporate a promenade or plaza area, a connected pathway and a community stage to engage a public destination.

Mr. Tagle said it appears the development team has not *sold* the Planning Commission on its concept plan and encouraged the team to share a presentation inclusive of ideas, graphics and words that would get the Board excited about the project. He asked the applicant to address the product the team envisions for development area 1.

Mr. Wertheimer said the product would be a five to seven story luxury residential building similar to what one sees in Birmingham, West Bloomfield and Corktown. He identified some amenities as a rooftop pool, an expansive workout facility, a work-from-home office setting, state-of-the-art technology and concierge services.

Mr. Krent referenced a proposed development project at the former K-Mart Headquarters that *wowed* the Planning Commission with its pavilion style development.

Chair Lambert suggested a connected hub for public transportation.

Mr. Antone addressed the change in the configuration of office buildings since the pandemic. He said offices are becoming highly amenitized to bring employees back to what was the standard office building. Mr. Antone noted proposed parking is less than two acres of the overall project.

PUBLIC HEARING OPENED

- Laury Shah, 1448 Brentwood Drive, Troy; addressed personal visions of developing property; native grasses, lush vegetation, botanical garden, minimum height of buildings, noise buffer.
- Wei Cao, 6816 Vernmoor, Troy; shared concurrence with Planning Commission comments on the parking structure and amenities, encouraged a gathering destination and pedestrian boulevard.

PUBLIC HEARING CLOSED

Chair Lambert announced the Planning Department received 10 to 15 email messages, copies of which were placed in front of Board members prior to tonight's meeting. Chair Lambert shared the messages expressed concerns with the destruction of green space and building heights.

Mr. Hutson said he would like to see the PUD Development Agreement be modified to include: 1) reduce the three buildings to a maximum height of eight (8) stories; 2) that no development phase should commence until the first development phase is complete; and 3) that the permitted and special uses are specifically identified. Mr. Hutson said he agrees with comments expressed by Ms. Perakis.

Ms. Dufrane stated the Planning Commission as a recommending body to City Council is responsible to forward either an affirmative or negative recommendation to City Council. In response to the Board's query if it is appropriate to postpone the item, she responded it would be reasonable to postpone the application one time should the Board desire.

Resolution # PC-2022-08-045

Moved by: Lambert
Support by: Buechner

RESOLVED, To postpone action on the PUD application to give the applicant an opportunity to consider input from the Commissioners on the overall concept plan and to give the Board a feel for what the entire project will look like.

Discussion on the motion on the floor.

Ms. Perakis addressed specific language she would like to incorporate in the Resolution as relates to parking structure location, pedestrian pathway, promenade/boulevard, relationship to Master Plan vision, uniqueness and creation of a destination point.

Mr. Antone and Mr. Wertheimer asked the Board to realistically consider the traffic impact and accessibility to the site as relates to the placement of the buildings.

Mr. Faison suggested design specifics should not be attached to the Resolution.

Mr. Hutson suggested to postpone the item with no specificity attached to the Resolution.

Ms. Dufrane said the attorney's office would collaborate with the applicant's attorney to tighten up the language on permitted and special uses.

Vote on the motion on the floor.

Yes: All present (9)

MOTION CARRIED

Ms. Perakis addressed existing traffic problems in the area and cautioned the applicant to not come back with an excuse that the traffic impact would prevent a pedestrian boulevard.

OTHER ITEMS

6. <u>PUBLIC COMMENT</u> – For Items on the Agenda

There was no one present who wished to speak.

7. PLANNING COMMISSION COMMENT

Mr. Carlisle addressed the Master Plan Update with respect to the release of census data in May 2023. He said during City staff discussion, it's been determined that the policy changes and amendments to the updated Master Plan would not be fundamentally impacted by updated census data, and it is recommended to continue with the process of finalizing the draft Master Plan and start the adoption process. Mr. Carlisle said the 2023 census data when released would be added as an addendum to the updated Master Plan.

After a brief discussion, Board members agreed to go forward with the Master Plan Update.

8. <u>ADJOURN</u>

The Regular meeting of the Planning Commission adjourned at 8:55 p.m.

Respectfully submitted,

David Lambert, Chair

Kathy L. Czarnecki, Recording Secretary

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Chair Lambert called the Regular meeting of the Troy City Planning Commission to order at 7:00 p.m. on September 27, 2022, in the Council Chamber of the Troy City Hall. Chair Lambert presented opening remarks relative to the role of the Planning Commission and procedure of tonight's meeting.

1. ROLL CALL

Present:

Toby Buechner
Carlton M. Faison
Michael W. Hutson
Tom Krent
David Lambert
Lakshmi Malalahalli
Marianna Perakis
Sadek Rahman
John J. Tagle

Also Present:

R. Brent Savidant, Community Development Director Ben Carlisle, Carlisle Wortman Associates Julie Quinlan Dufrane, Assistant City Attorney Kathy L. Czarnecki, Recording Secretary

2. APPROVAL OF AGENDA

Ms. Perakis asked to add Planning Commission Comment as Agenda item #7.

Resolution # PC-2022-09-052

Moved by: Perakis Support by: Krent

RESOLVED, To approve the Agenda as revised.

Yes: All present (9)

MOTION CARRIED

3. <u>APPROVAL OF MINUTES</u> – September 13, 2022

There was a brief discussion on the Village of Troy PUD application as relates to:

- The wording of Resolution # PC-2022-09-051 to postpone item.
- Scheduling of Public Hearing.

Resolution # PC-2022-09-053

Moved by: Buechner Support by: Rahman

RESOLVED, To approve the minutes of the September 13, 2022 Regular meeting as submitted.

Yes: Buechner, Hutson, Krent, Lambert, Malalahalli, Perakis, Rahman, Tagle

Abstain: Faison

MOTION CARRIED

4. PUBLIC COMMENT – For Items Not on the Agenda

There was no one present who wished to speak.

PLANNED UNIT DEVELOPMENT

5. PLANNED UNIT DEVELOPMENT (File Number PUD 2020-0018) – Revised Concept Development Plan for Long Lake and Crooks Masterplan Development, Northwest Corner of Long Lake and Crooks, Section 8, Currently Zoned O (Office) District

Mr. Carlisle gave a brief background of the proposed Planned Unit Development (PUD) application and identified some of the changes since last reviewed at the August 9, 2022 Planning Commission Regular meeting.

- Reconfigured residential building at northwest corner, moved building parallel to Corporate Drive.
- Reconfigured hotel/restaurant building at southwest corner, moved building parallel to Corporate Drive, located parking in rear.
- Added another retail/restaurant building, moved retail/restaurant buildings to front on Long Lake, parking in rear.
- Reconfigured internal pedestrian grid system and outdoor seating plaza area between two main retail/restaurant buildings on Long Lake.
- Significant addition to the central gathering space, dedicated green space and functional usable open space.
- Added green "street" and "boulevard" that bisects site north/south, east/west.
- Added pedestrian amenities and grid system to connect with pedestrian amenities.
- Reduced size of sculpture garden located next to wetland, added parking.
- Expanded open space and natural features area on the north end of site.
- Added small retail zone on ground level of parking deck.

Anthony Antone of Kojoian introduced project team members in the audience; Randy Wertheimer of Hunter Pasteur Homes, Chris Beck of Gensler, Chris Kojoian of Kojoian and Tyler Tennent of Dawda Mann PLC.

Mr. Antone said the team wants to make sure they are on the right track and is asking for the Board's feedback again before coming forward with the Concept Development Plan. He said "The Great Lawn" area would be an all-season gathering place with diverse amenities, identifying at this time an ice-skating rink, pickleball courts and bocce ball.

Board members complimented the team on the plan revisions and expressed overall satisfaction of the plan.

Some items Board members asked the project team to consider:

- Prepare a brochure/pamphlet to illustrate the community gathering space.
- Food trucks; parking, competition with on-site restaurants.
- Seasonal gathering space; functionality.
- Add gardens, play structure.
- Location of pickleball courts and outdoor exercise stations.
- Parking.
 - Applicant advised boulevard offers on-street parallel parking.
 - o Parking deck and office tower; levels of parking.
 - Shared parking.
 - o Review of parking at each development phase.
- Retail/restaurant buildings; facilitation of loading/unloading and waste management.
- Provide a 'grand' and 'eye-catching' entrance to development.
- Hub for public transportation.

Mr. Savidant reviewed the PUD approval process.

Ms. Dufrane stated the elements of the PUD agreement encompass details relating to development phasing and open space.

Chair Lambert opened the floor for public comment.

Wei Cao, 6816 Vernmoor; addressed retail/restaurant portion of development, suggested smaller storefront retail/restaurants.

Chair Lambert closed the floor for public comment.

Mr. Antone said the market would drive tenancy of the project. He said a combination of larger and smaller retail/restaurant store fronts would be appealing.

OTHER ITEMS

6. PUBLIC COMMENT - For Items on the Agenda

There was no one present in the audience who wished to speak.

7. PLANNING COMMISSION COMMENT

There were general comments, some relating to:

- Meeting schedule.
- · Term expirations, reappointments.
- Agenda format; review of Bylaws.

8. ADJOURN

The Regular meeting of the Planning Commission adjourned at 7:57 p.m.

Respectfully submitted,

David Lambert, Chair

Kathy L. Czarnecki, Recording Secretary

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Chair Lambert called the Regular meeting of the Troy City Planning Commission to order at 7:00 p.m. on January 24, 2023, in the Council Chamber of the Troy City Hall. Chair Lambert and Vice Chair Perakis presented opening remarks relative to the role of the Planning Commission and procedure of tonight's meeting.

ROLL CALL

Present:

Toby Buechner
Carlton M. Faison
Tyler Fox
Michael W. Hutson
Tom Krent
David Lambert
Lakshmi Malalahalli
Marianna Perakis
John J. Tagle

Also Present:

R. Brent Savidant, Community Development Director Julie Quinlan Dufrane, Assistant City Attorney Kathy L. Czarnecki, Recording Secretary

2. APPROVAL OF AGENDA

Resolution # PC-2023-01-006

Moved by: Fox Support by: Faison

RESOLVED, To approve the Agenda as prepared.

Yes:

All present (9)

MOTION CARRIED

3. <u>APPROVAL OF MINUTES</u> – January 10, 2023

Resolution # PC-2023-01-007

Moved by: Krent Support by: Tagle

RESOLVED, To approve the minutes of the January 10, 2023 Regular meeting as submitted.

Yes:

All present (9)

MOTION CARRIED

4. PUBLIC COMMENT – For Items Not on the Agenda

There was no one present who wished to speak.

PLANNED UNIT DEVELOPMENT

5. PLANNED UNIT DEVELOPMENT (File Number PUD2020-0018) — Proposed Concept Development Plan for Long Lake and Crooks Masterplan Development, Northwest corner of Long Lake and Crooks, Section 8, Currently Zoned O Office

Mr. Savidant explained the Planned Unit Development (PUD) three-step approval process. He briefly addressed discussion items during review of the application in previous meetings.

Mr. Savidant addressed revisions to the application since its last review, proposed amenities in Zones A, B and C, buildout of development phases and displayed several generic renderings that capture the flavor of the application.

Mr. Savidant said the applicant noted benefits of the application as follows:

- Horizontal mixed-use development consistent with the Master Plan.
- Development of an undeveloped and prominent site.
- Outdoor plazas.
- Outdoor dining areas.
- Pedestrian circulation paths and activities around the site.
- Public art.
- Wetland preservation.

Mr. Savidant asked the Planning Commission to consider the following in its deliberation:

- The proposed development guidelines (height/setbacks, etc.)
- The proposed allowable and special uses.
- The proposed phasing.
- If proposed benefits are commensurate with the requested relief/development flexibility.
- If the PUD Standards have been met.

Discussion among administration and Planning Commission:

- Public transportation drop-off area.
- · Height of Flagstar bank; 14 stories.
- Intent of Urban Residential zoning district.
- Sustainability, renewable energy, environmental impact.
- Traffic study recommendations, responsibility to apply.
- Potential uses.

Anthony Antone of Kojaian was present. Project members in the audience were Randy Wertheimer of Hunter Pasteur Homes, Chris Beck of Gensler and Tyler Tennent of Dawda Mann PLC.

Mr. Antone addressed the revisions to the application and amenities and said they are committed to the uses as presented this evening in their presentation.

There was discussion, some comments related to:

- Public transportation drop-off; possible location south side of Crooks service drive; applicant working with SMART.
- Amenities open to public; more details with site plan application.
- Development phases; 1st phase multi-family residential, 2nd phase amenities.
- Public art; one-time installation.
- Sustainability, energy conservation, charging stations.
- Natural wetland area; seating around periphery; applicant working with Environment,
 Great Lakes & Energy (EGLE) on other possible functions.
- Great Lawn Area; applicant working with outside source to promote various activities.
- Correction to Site Plan to show only one entrance on Long Lake.
- Food truck staging; on promenade, malleable locations.
- Traffic improvements; applicant to work with Engineering and County.
- Green space; 76% open space.
- Office space (Area 2); objective to remain as office use until tenant is secured.
- Goal to create a live, play, work environment.
- Public comment received expressing concern with destruction of trees, office space vacancies and building height.
- Applicant encouraged to include renderings from various perspectives of surrounding areas at City Council presentation.
- Project timetable.
- Recycling resources.

Chair Lambert opened the floor for public comment. Acknowledging there was no one present who wished to speak, Chair Lambert closed the floor for public comment.

There was discussion on the PUD Agreement, some comments related to:

- Limitation on uses; reference to email communication from Attorney Tyler Tennent confirming commitment of uses identified in application.
- Site Plan to show only one entrance on Long Lake.
- Traffic circulation as relates to recommendations of traffic consultants and County regulations.
- Project timetable; up to 20 years to complete construction.
- Development phases.

Resolution # PC-2023-01-008

Moved by:

Krent

Seconded by:

Buechner

WHEREAS, The applicant Gensler submitted a Conceptual Development Plan application for a Planned Unit Development, located on the northwest corner of Long Lake and Crooks, in Section 8, approximately 24.88 acres in area; and

WHEREAS, The Concept Development Plan proposes multiple phases for a mixed-use development including office, residential, lodging, restaurant, retail and open space with public amenities; and

WHEREAS, The Concept Development Plan will be implemented through submittal of Preliminary Development Plans for each phase of development; and

WHEREAS, Each Preliminary Development Plan will require a Planning Commission public hearing and City Council public hearing prior to approval; and

WHEREAS, The proposed Concept Development Plan meets the Standards for Approval set forth in Section 11.03.

THEREFORE BE IT RESOLVED, That the Planning Commission recommends to City Council that Concept Development Plan Approval for the proposed Long Lake and Crooks Masterplan Development be granted, subject to the following:

1. The concept plan indicates extensive landscape and trees, and the Planning Commission approves that type of concept.

Yes:

All present (9)

MOTION CARRIED

PRELIMINARY SITE PLAN APPROVAL

 PRELIMINARY SITE PLAN REVIEW (File Number SP JPLN2022-0009) – Proposed Hills West, East side of Crooks, South of Wattles (3902 Crooks; 88-20-21-101-003), Section 21, Currently Zoned NN (Neighborhood Node "I") District

Ms. Dufrane referenced an email received from the applicant's attorney, Henry Sandweiss, requesting that Ms. Perakis recuse herself from deliberation on this item. Ms. Dufrane said she and Ms. Perakis discussed the request earlier today. It was determined to allow Ms. Perakis an opportunity to respond, followed by a vote of the Planning Commission on whether or not recusal is necessary. Ms. Dufrane asked if either Arban Stafa or Mr. Sandweiss, who were present in the audience, had anything further to say on behalf of the applicant Sam Stafa, to which they declined.

Ms. Perakis said she would not recuse herself. Ms. Perakis addressed the reference by the applicant, Sam Stafa, that she cannot render a fair and impartial decision and thus suggests she might be biased against him. Ms. Perakis said she believes she treats all applications with the same scrutiny and strategy as relates to Zoning Ordinance

standards. She said she has nothing personal against Mr. Stafa and has no reason to be biased or has ever been biased against the applicant.

Commissioners Krent, Tagle, Hutson and Malalahalli spoke in support of not recusing Ms. Perakis.

Resolution # PC-2023-01-009

Moved by:

Krent

Seconded by:

Fox

RESOLVED, To not recuse Ms. Perakis from deliberation on this application.

Yes:

Buechner, Faison, Fox, Hutson, Krent, Lambert, Malalahalli, Tagle

Abstain:

Perakis

MOTION CARRIED

Mr. Savidant said the application before the Board this evening looks different than what was presented in November 2022. He reviewed the changes as noted on page 6 of the Planning Consultant report dated January 19, 2023. Mr. Savidant addressed site access, common ownership of parcels, potential for cross access connectivity, open space, landscaping, parking, traffic study, elevations and building materials.

Mr. Savidant asked the Planning Commission in its deliberation to consider compliance with Sections 5.06E Design Standards and 8.06 Site Plan Review Standards.

Discussion among administration and Planning Commission:

- Application relationship to previously approved developments and potential future development.
- Preservation of twelve trees.
- Bicycle parking spaces.
- Residentially zoned parcel to the south is a church.

Peter Stuhlreyer of Designhaus Architecture was present to represent the developer of Hills West.

There was discussion, some comments related to:

- Location of bicycle parking spaces; inside gym building to the north.
- Consideration to locate pocket park between the two buildings.
- Consideration to move Crooks access to the south of the most southern building.
- Traffic concerns; circulation, Crooks access, proximity to Barilane driveway, potential for backup traffic, consideration for EVA (emergency vehicular access).
- Building floor plans.
- Separate venture/ownership of parcels.
- Parking; no deficit per parcel, no shared parking required.
- Requirement of cross access easements.
- Location of pocket park initially determined to preserve existing trees.
- Recycling resources.

City Traffic Consultant Sara Merrill OHM Advisors addressed the process in which the developer, or its designated traffic/civil engineer, would reach out to the Road Commission for Oakland County (RCOC) Permit Department to move the Crooks Road access and rearrange the deceleration lane. She said, in her opinion, there could be a benefit or a potential ripple effect of moving the access further south. Ms. Merrill addressed numerous factors used to determine if traffic mitigation is necessary and internal traffic site flow. She shared that RCOC uses an adaptive traffic system at each intersection in Troy that responds live to current traffic volumes.

Mr. Tagle asked if one is heading southbound on Crooks and turning left into the site driveway, and with the cars stacking up in the northbound left turn lane to go west on Wattles, how many cars would it take before one could not turn left to get into the complex.

Julie Kroll of Fleis & Vandenbrink responded that the traffic calculations show there would be no impact to the site driveway in that scenario.

Civil Engineer Greg Bono of PEA Group addressed the RCOC requirements on separation distance between driveways and noted it is based on the speed limit on Crooks Road. He opined the RCOC would not issue a permit for a change in the driveway location. Mr. Bono addressed the potential to extend the deceleration lane and the limitations an EVA would pose to the Barilane property.

Chair Lambert opened the floor for public comment.

 Michelle Lyons, 3902 Crooks, owner of the subject property, addressed the existing zoning and surrounding uses. She expressed support for the application as presented and asked the Board's consideration in its approval this evening.

Chair Lambert closed the floor for public comment.

Mr. Fox addressed the location of the Barilane driveway, potential for cut-through traffic, speeding and emergency vehicular access.

Resolution # PC-2023-01-

Moved by:

Fox

Seconded by:

RESOLVED, That Preliminary Site Plan Approval, pursuant to Article 8 of the Zoning Ordinance, as requested for the proposed Hills West 29-unit apartment development, East side of Crooks, South of Wattles, Section 21, Currently Zoned NN (Neighborhood Node "I") District, be granted.

Discussion:

Mr. Krent said he would support the motion on the condition that RCOC explore the possibility of having the driveway at the south end of the property.

Ms. Perakis said exploring the possibility has no teeth and suggested waiting for a response from RCOC prior to taking any action this evening.

Mr. Tagle said it would be advantageous for the developer to reach out to the RCOC to discuss the possibility of moving the access to the south but noted that the RCOC has the final say on the access and deceleration lane.

Resolution # PC-2023-01-010

Moved by:

Fox

Seconded by:

Krent

RESOLVED, That Preliminary Site Plan Approval, pursuant to Article 8 of the Zoning Ordinance, as requested for the proposed Hills West 29-unit apartment development, East side of Crooks, South of Wattles, Section 21, Currently Zoned NN (Neighborhood Node "I") District, be granted, subject to the following:

1. That the Road Commission for Oakland County (RCOC) explores the possibility of having the driveway at the south end of the property.

Yes:

Faison, Fox, Hutson, Krent, Tagle

No:

Buechner, Lambert, Malalahalli, Perakis

MOTION CARRIED

OTHER ITEMS

7. PLANNING COMMISSION ANNUAL REPORT FOR 2022

Mr. Savidant presented the Planning Commission 2022 Annual Report.

Chair Lambert asked that the report be revised as follows:

- Add site plan approval of the Kelly Services redesigned office building site development on Kirts Boulevard.
- Sub-Committee on Neighborhood Nodes.
 - Rephrase 'established' to 'appointed' by Chair.
 - o Add names of members; Lambert, Perakis, Faison, Krent.

Mr. Savidant said he would revise the report to reflect the changes prior to presenting the report to City Council and posting it on the City website.

8. <u>PUBLIC COMMENT</u> – For Items on the Agenda

There was no one present who wished to speak.

9. PLANNING COMMISSION COMMENT

There were general comments, some relating to:

- Administration presentation of proposed Zoning Ordinance Text Amendments for review.
- Current vacancy rates for office and apartment complexes; possibly presentation by experts on topic(s).
- Status of Master Plan update.
- Capacity of Troy schools to accommodate additional students resulting from recent developments.

10. ADJOURN

The Regular meeting of the Planning Commission adjourned at 9:35 p.m.

Respectfully submitted,

David Lambert, Chair

Kathy L. Czarnecki, Recording Secretary

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Exhibit D

City Council Meeting Minutes and Resolution

[to be added after meeting]

Exhibit E

Preliminary Site Plans

PRELIMINARY SITE PLANS

LONG LAKE & CROOKS MASTERPLAN DEVELOPMENT

LONG LAKE AND CROOKS ROAD CITY OF TROY, OAKLAND COUNTY, MICHIGAN



	INDEX OF DRAWINGS
NUMBER	TITLE
	COVER SHEET
C-1.0	TOPOGRAPHIC SURVEY
C-3.0	PRELIMINARY SITE PLAN
C-5.0	PRELIMINARY UTILITY PLAN
L-1.0	PRELIMINARY LANDSCAPE PLAN

DESIGN TEAM

CLIENT

KOJAJAN MANAGEMENT
LONG LAKE CROOKS DEVEL OPMENT ASSOCIATI
39400 WOODWARD AVE, STE. 250
BLOOMFIELD HILLS, MI 48394
CONTACT. TONY ANTONE

ARCHITECT

GENSLER 150 W JEFFERSON, STE. 1700 DETROIT, MI 48228 CONTACT: CHRIS BECK PHYNE: 313,408,8098 CIVIL ENGINEER

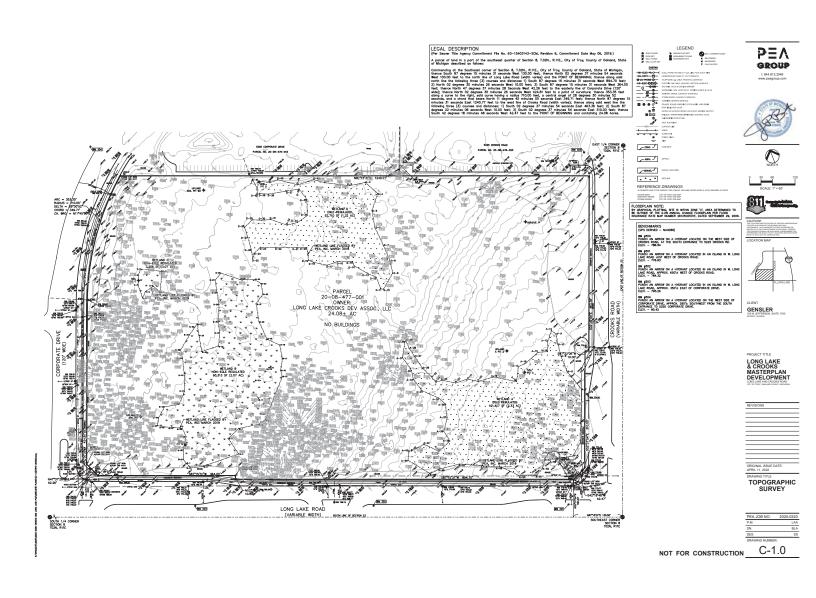
PEA GROUP 1849 POND RUN AUBURN HILLS, MI 48326 CONTACT: GREG BONO, PE PHONE: 844.813.2949 FMAII - GROUNDREAGROUP COI

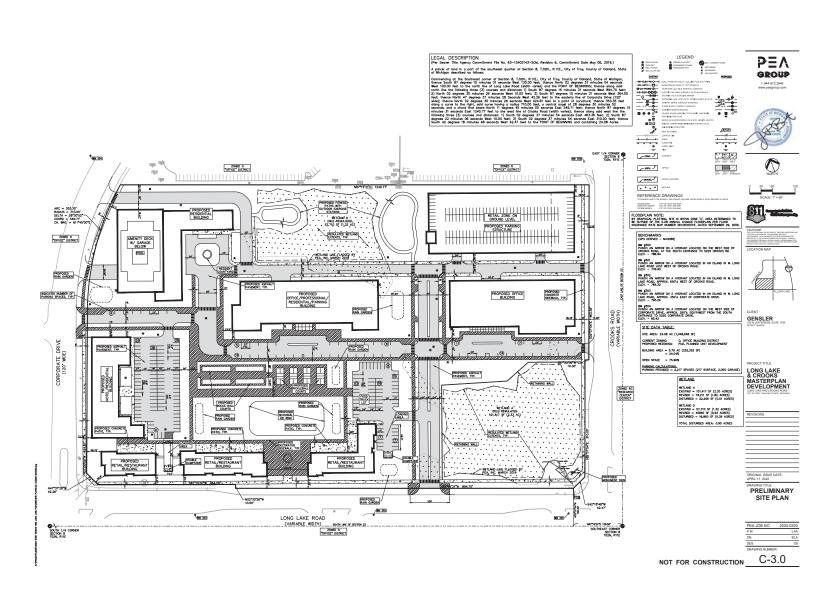
LANDSCAPE ARCHITEC

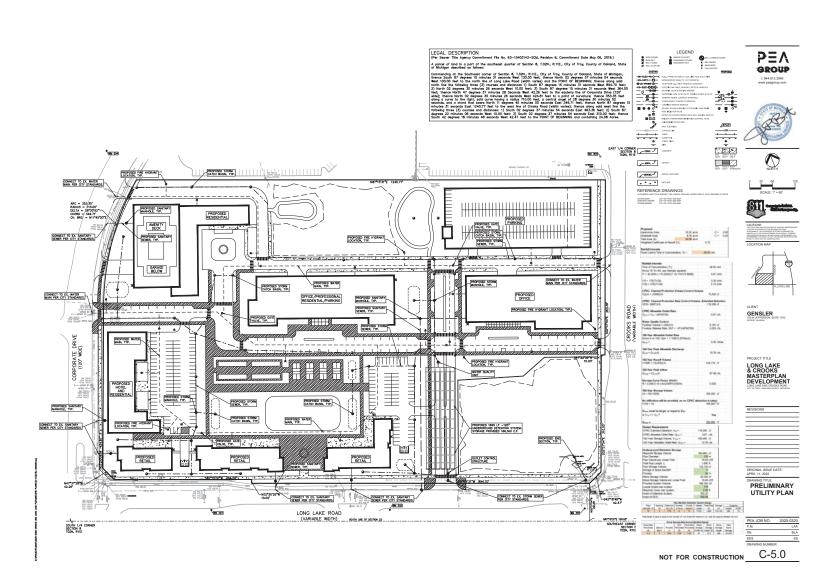
EA GROUP 127 NEMCO WAY, STE. 115 RIGHTON, MI 48116 ONTACT: JANET EVANS HONE: 844,813,2949 PEA GROUP

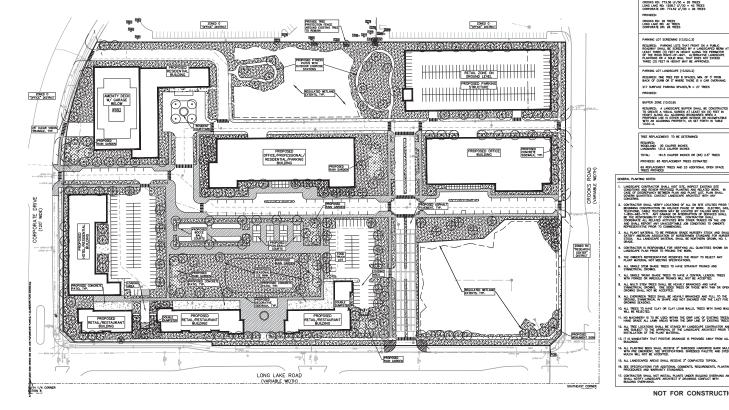


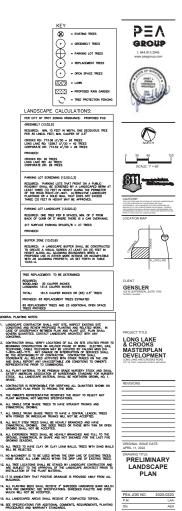












L-1.0

NOT FOR CONSTRUCTION



TAG NO.	CODE	DBH	COMMON NAME Black Locust	LATIN NAME Robiniu pasudoscacia	COND	COMMENTS
1001	BL BL	6	Black Locust Black Locust	Robinia pseudoacacia Robinia pseudoacacia	Poor	
1003	DL	7	Black Locust	Robin's pseudoscapia	Very Poor	
1004		28	Cottonwood	Populus deltoides	Fair	
1005	BL.	15	Black Locust	Robinis pseudoscacia	Very Poor	dead
1006	BL	16	Black Locust	Robinie pseudoacacia	Poor	ж2
1007	BL SM	15	Black Locust Silver Maple	Robinia pseudoscacia Aper saccharium	Poor Very Poor	
1008	SM	17	Silver Maple	Aper saccharium	Poor Poor	×1
1010	CT	32	Cottonwood	Popular distoides	For	
1011	RX	8	Box elder	Acer regundo	Poor	
1012	BX	21	Box elder	Acer negando	Poor	
1013	BX	- 6	Box elder	Acer regundo	Poor	
1014	CT	17	Cottonwood	Populus deltoides	Fair	
1015	CT	18	Cottonwood	Populus deltoides	Poor	
1016	8X	6	Box elder	Acer regundo	Poor	
1017	8X SM	36	Box elder	Acer regundo	Poor Poor	
1019	BX	17	Silver Maple Box either	Aper saccharinum Aper negondo	Poor	
1000	BX BX	10	Box elder	Acer regundo	Poor	
1021	SM	38	Silver Maple	Aper saccharinum	Poor	
1022	SM	23	Silver Maple	Acer saccharinum	Fair	
1023	GA	9	Green Ash	Franks parssylvanica	Poor	
1024	8X	14	Box elder	Acer regundo	Poor	
1025	SM	27	Silver Maple	Aper saccharinum	Fair	
1026	SM	29	Silver Maple	Aper saccharinum	Fair	
1027	SM	9	Silver Maple	Aper saccharinum	Poor	
1028	BX	8 17	Box elder Box elder	Acer regundo	Poor Very Poor	
1029	8X	17	Box elder American Elm	Acer regando Ulmas americana	Very Poor	
1031	SM	24	Silver Maple	Acer sacoharinum	Poor	x1
1032	GA	12	Green Ash	Prentise permenance	Poor	
1033	SM	21	Silver Maple	Acer saccharinum	Fair	
1034	GA	7	Green Ash	Franks pennyhavice		
1035	Ε	- 6	American Elm	Ulmus americana	Poor	
1035	SM	34	Silver Maple	Aper saccharinum	Fair	
1037	SM	14	Silver Maple	Aper saccharinure	Poor	
1038		12	Arredcan Elm	Unus americana	Poor	
1039	E BX	8	Arrescen Elm	Ulreus americana	Poor Very Poor	
1041	CT	33	Box elder Cottonwood	Acer regundo Populus deltoidas	Poor Poor	
1047	CT	18	Cottonwood	Populus deltoides	Poor	
1043	CT	25	Cottonwood	Popular distorder	Poor	
1044	CT	23	Cottonwood	Populus deltoides	Poor	
1045		13	Arredcan Elm	Ultrus americana	Poor	
1045	CT	17	Cottonwood	Populas deltoides	Poor	
1047		7	American Elm	Unsa americana	Poor	
1048	8	8	American Elm	Ulmus americana	Fair Poor	
1069	SM SM	13	American Elm Silver Macre	Ulmus americana Aper saccharirum	Poor Feir	
1051	SM	17	Silver Maple	Acer saccharinum	Poor	
1052	E .		American Elm	Ultrus americana	For	
1063	8	14	American Elm	Ulmus americana	Poor	
1054	CT	15	Cottonwood	Populus distoides	Poor	
1065	CT	13	Cottonwood	Populus deltoides	Poor	
1055	SM	9	Silver Maple	Aper ascoharinum	Poor	
1067	CT	81	Cottonwood	Populus delloides	Poor	
1058	CT	12	American Elm	Ulmus americana	Poor Poor	
1000	E	29	Cottonwood American Elm	Populus deltoides Ulmus americana	Very Poor	
1000	CT	27	Cottonwood	Populus deltorates	Fair	
1001	SM	9	Silver Maple	Aper sacoharinum	Very Poor	
1053	SM		Silver Maple	Aper ascolaring	Poor	
1064	ε	- 6	American Elm	Ulmus americana	Poor	
1055	SM	13	Silver Maple	Aper sapphareure	Poor	
1098	8	- 6	American Elm	Ulmus americana	Poor	
1067	5M	6	Silver Maple	Aper secoharinum	Poor	×1
1068	SM	17	Silver Maple	Aper saccharinum	Poor	
1009	BMM	25	Black Willow	Salv rigra	Very Poor	
1070	CT	7 8	Cottonwood	Populus deltoides	Poor Fair	
1071	CT	12	Cottonwood Cottonwood	Populus deltoides Populus deltoides	Poor	×1
1072	CT	12	Cottonwood	Populus deltoides Populus deltoides	Fair	X1
1074	CT	10	Cottonwood	Popular distories	Poor	
1075	CT	14	Cottonwood	Popular delibides	Poor	
1076	CT	15	Cottonwood	Popular deltoider	Fair	
1077	CT	10	Cottonwood	Populus deltoides	Fair	
1078		10	American Elm	Ultrus americana	Fair	
1079	GA	- 6	Green Ash	Frexisus pennsylvanice	Poor	
1080	- 6	7	American Elm	Ulmus americana	Fair	
1081	SM SM	16	Silver Maple Silver Maple	Aper saccharinum	Fair Poor	
1082	SM	27	Silver Maple Silver Maple	Aper saccharinum Aper saccharinum	Poor	
1083	SM	14	Silver Maple	Acer saccharium	Poor	
1085	SM	13	Silver Maple	Aper saccharinum	For	
1086	GA	- 6	Green Ash	Franks pennsylvanice	Poor	
1087		10	Arrescan Elm	Ultrus attericana	Poor	
1088	SM	15	Silver Maple	Acer saccharinum	Fair	
1089	SM	19	Silver Maple	Aper sacoharinum	Poor	
1000	SM	18	Silver Maple	Aper saccharinure	Foir	
1091	E	6	American Elm	Ulmus americana	Poor	
1002	SM	20	Silver Maple	Aper saccharinure	Foir	
1093	SM	17	Silver Maple American Elm	Aper saccharinum Ulmus americana	Poor Poor	
1094	SM	12	American Elm Silver Maple	Acer saccharitum	Poor	
1095	SM	7 7	Siter Maple	Acer saccharinum	Poor	
1097	TH	7	Thomapple/Hawthome	Cragaegus spp.	Poor	
1098		6	American Elm	Ultrus americana	Poor	
1099	SM	17	Silver Maple	Aper saccharinum	Fair	x1
1100	E	12	American Elm	Ultrus americana	Fair	
1101	GA	10	Green Ash	Frexisus pennsylvanice	Poor	
1102	Ε	9	American Elm	Ulmus americana	Poor	

1107	SM GA	13	Silver Maple Green Ash	Aper saccharinum Praintus gennschanice	Fair Poor	
1109	SM	14	Silver Maple	Ager saccharinum	Fair	
1110	GA	13	Green Ash	Franksa pansykasica	Fair	
1111	SM	23	Silver Maple	Acer saccharinum	Poor	
1112	SM	13	Silver Maple	Aper saccharinum	Poor	
1113	RM RX	10	Red Maple Box elder	Aper rubrum	Fair Poor	
1115	8M	12	Sox elder Siter Maple	Acer regando Acer seconarisure	Poor Feir	12
1110	SM	28	Silver Maple	Aper saccharinum	Fair	
1117	FOA	8	Fled Maple	Aper ratinare	For	
1118	GA	- 6	Green Ash	Franksis pennsylvanice	Poor	
1119	BX	21	Box elder	Acer regards	Poor	×1
1121	BX BX	28	Box elder Box elder	Acer regundo	Poor Poor	
1121	BC BC	18	Wild Black Cherry	Acer negundo Pransis serctine	Poor	
1123	BX	10	Box elder	Acer regundo	Poor	
1124	BX	21	Box elder	Acer regundo	Poor	
1125	BX	7	Box elder	Acer regundo	Poor	
1126	BX BX	8	Box ender	Acer regundo	Poor	-
1127	BX BX	8 7	Box elder Box elder	Acer regundo Acer regundo	Poor Poor	x3
1129	BX	9	Box elder	Acer regundo	Poor	×2
1130	DX.	9	Dox elder	Acer regards	Poor	
1131	8X	10	Box elder	Acer regundo	Poor	
1122	BX.	7	Box elder	Acer regards	Poor	x1
1133	BX AP	9 10	Box elder	Acer regundo	Poor Poor	x1
1134	AP AP	10	Domestic Apple Domestic Apple	Make sylvestris Make sylvestris	Poor	
1136	AP	7	Domestic Apple	Make sylvestris	Poor	
1137	AP	9	Domestic Apple	Make sylvestris	Poor	
1138	AP	6	Domestic Apple	Malus sylvestris	Poor	
1120	AP AP	6 2	Domestic Apple	Makes syrvestre	Poor	×1
1140	AP BC	7 21	Domestic Apple Wild Black Chery	Malus sylvestris Pranaz zerotine	Poor Poor	xt
1142	E E	8	Wild Black Cherry American Elm	Umus americana	Poor	
1143		7	Arredcan Elm	(Arrus attecceou	Fair	
1144	BX	23	Box elder	Acer regundo	Poor	
1145	SU	12	Sugar Maple	Aper sacchasure	Fair	
1145	BX BX	8	Box elder	Aper regundo	Fair	
1147	BX BX	8	Box elder Box elder	Acer negundo Acer negundo	Poor	
1149	8X	10	Box elder	Acer regundo	Poor	
1150	BX	6	Box elder	Acer regards	Poor	
1151	8X	6	Box elder	Acer regundo	Poor	
1152	BX.	6	Dox eider	Acer negando	Poor	
1153	BX BX	8	Box elder	Acer regundo	Poor Poor	
1154	BX	8	Box elder Box elder	Acer regundo Acer regundo	Poor	
1156	BX	7	Rox eider	Acer regardo	Poor	
1157	ε	22	American Elm	Ulmus americana	Poor	
1158	BC	24	Wid Black Cherry	Posss sertice	Very Poor	x1
1150	BX	8 10	Box elder	Acer regunds	Poor Poor	
1990	BX BX	10	Box elder Box elder	Acer negundo Acer negundo	Poor Poor	
1192	BX	8	Box elder	Acer regundo	Poor	
1953	BX	8	Dox eider	Acer negando	Poor	
1164	BX	- 6	Box elder	Acer regundo	Poor	
1955	BX	9	Box elder	Acer regardo	Poor	
1198	BX BX	12	Box elder Box elder	Acer regundo Acer regundo	Poor Poor	×2
1158	BX	18	Box eider	Acer regundo	Poor	
1109	GA	12	Green Ash	Franks pennsylvanica	Poor	
1170	GA	6	Green Ash	Frantsa parrayhanica	Very Poor	
	8X	6	Box elder	Acer regundo	Poor	
1172	TH TH	9 14	Black Locust	Robin's pseudoscacia	Poor	×3
1173	TH	14	Thomapple/Hawthome Black Locust	Cragaegus spp. Robinia pseudoscacia	Poor	x3 x1
1175	BL.	8	Black Locust	Robinia pseudoacacia	Poor	A1
1170	BX	10	Box elder	Acer regardo	Poor	
1177	BL	10	Black Locust	Robinia pseudoacacia	Poor	
1178	BX	12	Box elder	Acer regundo	Poor	
1179	BX	10	Box elder Box elder	Acer negando Acer negando	Poor Poor	
1180	BL	18	Black Locust	Робили давижности	Poor	
1182	BL	9	Black Locust	Robinia pseudoacacia	Poor	
1153	BX	14	Dox eider	Acer regards	Poor	
1184	GA	- 6	Green Ash	Frexisus pennsylvanice	Poor	
1185	SM RX	13	Silver Maple Box elder	Aper saccharinum	Fair	x1
1188	BX	12	Box elder Box elder	Acer regardo Acer regardo	Fair Poor	
1188	TH	7	Thomapple/Havthome	Cragagus spp.	Poor	
1189	SM	15	Silver Maple	Aper saccharinum	Fair	
1190		21	Cottonwood	Populus deltoides	Fair	
1191	8	10	American Elm	Ums americana	Very Poor	
1192	E GA	14	American Elm Green Ash	Ursus americana	Fair Very Poor	
1194	BC BC	17	Wid Black Cherry	Franks pennsylvanice Prunsa serotine	Fair	
1195	SM	20	Silver Manie	Ager saccharinum	Poor	
1195	DL	12	Black Locust	Robinia pseudoscacia	Poor	
1197	SM	14	Silver Maple	Aper saccharinum	Poor	
1198	SM	15	Silver Maple	Aper saccharinum	Poor	
1199	8	14	American Elm American Elm	Umus americana	Poor Poor	
1200	GA	10	American Elm Green Ash	Ulmus americana Prantsus parmighanica	Very Poor	
1202	8	- 6	American Elm	Ulmus americana	Fair	
1203	SU	27	Sugar Maple	Aper asophases	Fair	×3
1204	GA	8	Green Ash	Franksis pennsylvanice	Poor	
1205	GA GA	7	Green Ash	Frantus pennsylvanica	Poor	
1206		17	Green Ash	Frexisus pennsylvanice	Fair	
	BC E	17	Wild Black Cherry American Elm	Printed services Ulmas americana	Poor Poor	
1207				Ultrus americana	Fair	
	E	10				
1207 1208 1209 1210	E SM	8	American Elm Silver Maple	Aper paccharinum	Fair	
1207 1208 1209					Fair Fair Door	

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1300 VZ 14 Varior Birch Basic adepterments Vary Pior	
1358 72 14 Varior Birch Basis adeptements Vary Pior	
1910 VB 14 Yelsow Birch Belsah allegistencess Way Poor	.00
1511 DX 12 Bits elder Anni regreto Very Poor	
1313 SM 15 Silver Maple Aper ascharism Poor x1 1314 BX 7 Bux ellor Ador regundo Poor x1 1315 E 19 American Bine Prox americans Pair 1316 AU 22 Austrian Pine Prox regular Prox regular	41
1313 SM 15 She'm Naple Anne rascobertismer Poor x1 1314 BX 7 Box eldor Ageingroup Poor 1315 E 19 American Elm Ufmus annesidans Fair 1315 AU 22 Austrian Pres Prour large Poor 1316 AU 22 Austrian Pres Prour large Poor 1317 Austrian Pres Prour large Poor 1318 AU 22 Austrian Pres Prour large Poor 1319 AU 22 Austrian Pres Prour large Poor 1310 Austrian Pres Prour large Poor 1311 Austrian Pres Prour large Poor 1312 Austrian Pres Prour large Poor 1313 Austrian Pres Prour large Poor 1314 Austrian Pres Prour large Poor 1315 AU 22 Austrian Pres Prour large Poor 1316 AU 22 Austrian Pres Prour large Poor 1317 AU 22 Austrian Pres Prour large Poor 1318 AU 22 Austrian Pres Poor 1319 AU 22 Austrian Pres Poor 1319 AU 22 Austrian Pres Poor 1310 Austrian Pres Poor 1310 AU 22 Austrian Pres Poor 1311 AU 22 Austrian Pres Poor 1312 Austrian Pres Poor 1313 AU 22 Austrian Pres Poor 1314 Austrian Pres Poor 1315 AU 22 Austrian Pres Poor 1315 AU 22 Austrian Pres Poor 1316 AU 22 Austrian Pres Poor 1317 AU 22 Austrian Pres Poor 1318 AU 22 Austrian Pres Poor 1318 AU 22 Austrian Pres Poor 1319 AU AU AU AU AU AU AU A	.12
1314 BX 7 Box elder Ader required Poor	113
1315 E 19 American Elin Ultras atresicans Fair 1316 AU 22 Austrian Pine Pinus rigna Poor	
1316 AU 22 Austrien Pine Phas rigre Poor	45
1317 AU 17 Austrian Pine Pinus nigra Poor	
1318 AU 16 Austrian Pine Phase rigne Poor	
1319 E 16 American Elm Ulmus americana Fair	
1330 E 12 American Ein Utmax americans Poor 1321 E 16 American Ein Utmax americans Poor	119

1/2	Very Poor	Acer negando Acer necchanism	Box elder Silver Maple	10	8X SM	1322
	Fair	Acer saccharum	Super Maple	6	80	1324
×t	Poor Fair	Acer regards	Box elder American Elm	5 25	E E	1325
A1	Very Poor	Ulmus americana Pransis sentina	Wild Black Cherry	12	BC	1327
		Acer regundo	Box elder	8	BK	1328
	Poor	Acer negando	Box elder Box elder	19	BX BX	1329
	Poor	Acer regundo Ulmus americana	American Elm	10	E	1331
		Acer regundo	Box elder	24	8X	1332
	Poor Poor		Box elder	19	BX BX	1333
	Poor	Acer regundo	Box elder Box elder	6	BX	1334
	Poor	Acer regando Acer regando	Box elder	9	BX	1336
x3	Poor	Acer negando	Box elder	12	BX	1337
×2	Poor Poor	Freninus pennsylvenica Acer negando	Green Ash	6 B	GA RX	1338 1339
- 4	Pair		Box elder Silver Maple	22	SM	1340
	Fair	Aper saccharinum	Silver Maple	22	SM	1341
	Poor Poor	Acer regardo Acer regardo	Box elder Box elder	8	BX	1342
×2	Yery Poor	Pranta aerotina	Wild Black Cherry	9	BC	1344
		Ulmus americana	American Elm	12	E	1345
	Poor Fair	Robinia beendoeceola	Black Locust Black Walnut	18	BL BW	1345
	Poor	Aglans rigra Robove pseudoscacie	Black Locust	18	BW	1345
	Poor	Robinie pseudoacacie	Black Locust	12	BL.	1349
	Poor		Box elder	9	DOC	1350
	Poor Poor	Acer regardo Robinia pseudoscacia	Box elder Black Locust	16	BK BL	1351
	Poor	Robinie pseudoacacie	Black Locust	17	BL.	1353
	Very Poor	Robinia pseudoscacia	Black Locust	9	DL.	1354
	Poor	Robinia pseudoscacia Robinia pseudoscacia	Black Locust Black Locust	12	BL.	1355
	Poor	Robinia pseudoscacia Acer regundo	Box elder	13	BX	1357
	Poor	Robinia pseudoscacia	Black Locust	13	84.	1358
	Poor Very Poor	Robinie pseudoscacie Robinie pseudoscacie	Black Locust Black Locust	8	BL BL	1350 1360
		Acer regundo	Box elder	35	BX	1351
	Poor	Aper regundo	Box elder	16	8X	1362
	Poor Poor	Acer regundo	Box elder American Elm	28 15	BX	1363
	Poor	Ulmus americana Augiana regna	American Em	10	E	1364
	Poor	Umus americana	American Elm	19	E	1366
	Fair	Acer negando	Bos elder	16	BX	1367
	Poor Poor	Agians rigra Pronus serction	Black Walnut Wild Black Cherry	16	BW	1368 1369
	Poor	Acer negando	Box elder	10	BK	1370
	Poor	Robinia pseudoscacia	Black Locust	10	DL.	1371
	Poor	Robinia pseudoacacia Acer negundo	Black Locust Box elder	14 35	BL BX	1372
	Poor		Box elder	13	BX	1374
	Poor		Wild Black Cherry	17	BC	1375
	Poor Fair	Acer regundo Acer regundo	Box elder Box elder	12	BX BX	1376
		Aper regulado		6	BX	1378
	Poor		Box elder		BX	1379
	Poor Poor	Jugians rigna Ulmus americana	Black Walnut American Elm	16	BW E	1380
	Poor	Acer regundo	Amendan Erm Box elder	6	BX	1381
	Fair	Jugians nigra	Black Walnut	21	BW	1383
	Poor Poor	Principle passaytvanica	Green Ash	15	GA RX	1384
	Poor	Acer negando Acer negando	Box elder Box elder	23	BX	1385
	Poor	Omus americana	American Elm	31	E	1387
	Poor	Acer negando	Box elder	26	BX BL	1388
	Poor Very Poor	Robinie pseudoacacie Robinie pseudoacacie	Black Locust Black Locust		DL.	1290
	Yery Poor	Robinie assaudoacacie	Black Locust	7	BL.	1361
	Poor	Robin's pseudoscap's	Black Locust	14	DL.	1392
	Poor	Robinie pseudoscacie Robinie pseudoscacie	Black Locust Black Locust	8	BL.	1393
	Poor	Robinie pseudoacacie	Black Locust	14	BL.	1366
	Very Poor	Foreigna pensystemica	Green Ash		GA	1295
	Poor Poor	Aglans rigra Acer negando	Black Walnut Box elder	13	BW	1397
	Poor	Acer negation Jugans right	Black Watnut	7	BW	1300
	Poor		Black Locust	10	84,	1400
	Poor	Acer regundo Frantsus pennsylvanica	Box elder Green Ash	14 B	BX GA	1401
	Poor	Ulmus americana	American Elm	6	E	1403
	Fair	Augians nigra	Black Walnut	8	BW	1404
	Very Poor	Otrus amaricana	American Elm	17	E E	1406
	Pres	Umus americana Augiana riigna	American Elm Black Walnut	12	E BW	1406
	Poor	Audians nigra	Black Walnut	10	BW	1406
	Poor	Franksus passaylvanica	Green Ash	7	GA	1400
-	Poor	Ulmus americana Frantsia pennsylvanica	American Elm Green Ash	7 7	E GA	1410
	Poor	Ulmus americana	American Elm	6	E	1412
	Poor	Francisco passavivanica	Green Ash	9	GA	1413
-	Poor Poor	Acer regundo Ulmus americana	Box elder American Elm	9 15	BK E	1414
	Poor	Robinie pseudoscacie	Black Locust	15	BL.	1415
		Robinie pseudoscacie	Black Locust	15	RL.	1417
	Poor	Agans rigna	Black Walnut American Elm	24	BW E	1418
	Yery Poor	Otros americana Robinio pseudoscacio	Black Locust	7	BL.	1419
	Poor	Pyrus communis	Pear	6	PR	1421
in middle of webs	Poor	Otrus americana	American Elm	23	E	1422
x1, in h20 no tag 11	Poor	Umus americana Umus americana	American Elm American Elm	22	E	1423
	Poor	Populus dehoides	American Elm Cottonwood	27	CT	1424
		Populus deltardes	Cottonwood	37	CT	1425
	Poor	Augians nigra	Black Walnut Black Walnut	7 54	BW	1427
	Pair	Agians rigns				

1322	8X	10	Box elder	Acer negando	Very Poor	
1323	SM	21	Silver Maple	Aper aacchassam	Pair	×2
1324	SU BX	6	Sugar Maple Box elder	Acer saccharum Acer negando	Fair Poor	
1326	E	26	American Elm	Ulmus americana	Car	xt xt
1327	BC	12	Wild Black Cherry	Printer section	Very Poor	
1328	BK	8	Box elder	Acer regundo	Poor	
1339	BX	19	Box elder Box elder	Acer negando Acer negando	Poor	
1331		10	American Elm	Ultrus attendana	Poor	
1332	BX	24	Box elder	Acer regundo	Poor	
1333	BX BX	19	Box elder Box elder	Acer negando Acer negando	Poor	
1335	BX	- 6	Box elder	Acer negando Acer negando	Poor	
1336	BX	9	Box elder	Acer regundo	Poor	
1337	800	12	Box elder	Acer negando	Poor	x3
1338 1339	GA RX	6 B	Green Ash Box elder	Frantsus passaytvanica Acer negando	Poor Poor	×2
1340	SM	22	Silver Mapre	Aper aecohernam	Pair	A
1341	SM	22	Silver Maple	Aper saccharinum	Fair	
1342	BX	. B	Box elder	Acer regardo	Poor Poor	
1344	BC	9	Box elder Wild Black Cherry	Acer regando Pransa sentina	Very Poor	12
1345	E	12	American Elm	Ulmus americana	Fair	
1345	DL.	- 8	Black Locust	Robin's pseudoscacie	Poor	
1347	BW	18	Black Walnut Black Locust	Auglans nigra Poblinia pseudoscacia	Fair Poor	
1349	BL.	12	Black Locust	Robinie pseudoacacie	Poor	
1350	DOX.	9	Box elder	Acer negando	Poor	
1351	BK	16	Box elder	Acer regundo	Poor	
1352	DL.	15	Black Locust Black Locust	Robinie pseudoscacie Robinie pseudoscacie	Poor	
1353	BL.	9	Black Locust	Robinia pseudoscacia Robinia pseudoscacia	Very Poor	
1355	BL.	12	Black Locust	Robinie pseudoacacie		
1355	DL.	12	Black Locust	Robin's pseudoscacis	Poor	
1357	BX BL	13	Box elder Black Locust	Acer regundo Robinia pseudoscacia	Poor Poor	
1350	BL.	8	Black Locust	Pobinie pseudoscacie	Poor	
1360	81.	7	Black Locust	Robinie pseudoscacie	Very Poor	
1361	BX BX	35	Box elder	Acer regundo	Poor	
1383	BX BX	28	Box elder Box elder	Acer negando Acer negando	Poor	
1364	E	15	American Elm	Ultrus americana	Poor	
1355	BW	9	Black Walnut	Agian ngn	Poor	
1366	E BX	19	American Elm Box elder	Ulmus americana Aper regundo	Poor	
1368	BW	16	Black Walnut	Jugians nigra	Poor	
1350	BC	21	Wild Black Cherry	Printer section	Poor	
1370	BK BL	10	Box elder Black Locust	Acer regardo Robinia pseudoscacia	Poor	
1372	BL.	14	Black Locust	Robinia pseudoscacia	Poor	
1373	BX	35	Box elder	Acer negando	Poor	
1374	BX	13	Box elder	Acer regurdo	Poor	
1376	BC BX	17	Wild Black Cherry Box elder	Porse section Acer regards	Poor Poor	
1377	BX	15	Box elder	Acer negando	Fair	
1378 1379	BX BX	- 6	Box elder	Acer regundo	Poor	
1379	BW	16	Box elder Black Walnut	Acer negando Jugians nigra	Poor Poor	
1381	E	8	American Elm	Umus americana	Poor	
1382	BX	- 6	Box elder	Acer regundo	Prov	
1383	BW	21	Black Walnut	Agians nigra	Fair	
1384	GA RX	15	Green Ash Box elder	Frantsia passayhumica Acer negondo	Poor	
1385	BX	23	Box elder	Acer regards	Poor	
1387	E	31	American Elm	Ulmus americana	Poor	
1388	BX	26	Box elder Black Locust	Acer regards	Poor Poor	
1390	DL.	- 5	Black Locust	Robinie pseudoscacie Robinie pseudoscacie		
1391	BL.	7	Black Locust	Robinia psaudoacacia	Yery Poor	
1392	DL.	14	Black Locust Black Locust	Robinia pseudoscacia	Poor	
1393	BL.	8	Black Locust Black Locust	Robinie pseudoscacie Robinie pseudoscacie	Poor	-
1386	BL.	14	Black Locust	Robinie pseudoacacie	Poor	
1296	GA	0	Green Ash	Franksus penssylvanica	Very Poor	
1207	BW	13	Black Walnut Box elder	Acer negando	Poor Poor	
1300	BW	7	Black Watrut	Augians regna	Poor	
1400	84.	10	Black Locust	Robinia pseudoscacia	Poor	
1401	BX	14	Box elder	Acer regundo	Poor	
1402	GA E	6	Green Ash American Elm	Franksa pennsylvanica Umus americana	Poor Poor	-
1404	BW	8	Black Walnut	Augians nigra	Fair	
1406	E	17	American Elm	Ulmus americana	Very Poor Poor	
1406	E	12	American Elm Black Walnut	Umus americana Augiana riigna	Poor	
1407	BW	10	Black Walnut	Agians right Agians right	Poor	
1400	GA	7	Green Ash	Praints pastaylvanica	Poor	
1410	E GA	7	American Elm	Umus americana	Poor Poor	
1411	GA F	7 6	Green Ash American Elm	Praintsa pennsylvanica Umus americana	Poor	-
1413	GA	9	Green Ash	Francisco passavivacion	Poor	
1414	BK	9	Box elder	Acer regundo	Poor	
1415	E BL	15	American Elm Black Locust	Ottor americana	Poor	
1417	BL.	15	Black Locust	Robinie pseudoscacie Robinie pseudoscacie	Poor	
1418	BW	24	Black Walnut	Jugians rigns	Poor	
1419	E 0	- 6	American Elm	Ultrus americana	Poor	
1420	BL PR	7 0	Black Locust Pear	Potrinie pseudoacacie Pyrus communis	Very Poor Poor	
	E	23	American Elm	Urrus amarcana	Poor	in middle of weder
1422	F	22	American Elm	Ulmus americana	Poor	x1, in h20 no tag 10 ft N
1423						
1423	E	- 6	American Elm		Poor	
1423 1424 1425		6 27	American Elm Cottonwood	Populus deltoides	Poor Poor Poor	77,110010100
1423	E CT	- 6	American Elm		Poor	



NOT FOR CONSTRUCTION_

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1430	BL.	- 7	Black Locust	Robinia pseudoacacia	Poor	
1431	CT	30	Cottonwood	Populas distoides	Poor	
1432	CT	39	Cottonwood	Populas deltoides	Fair	
1433	CT	23 23	Cottonwood	Populus dell'oides	Poor Poor	
1434	BC BC	23	Cottonwood Wild Black Cherry	Populas deltoides Pranas serctine	Poor	
1438	BL	- 6	Black Locust	Robinia pseudoacacia	Poor	
1427	BL	8	Black Locust	Robin's pseudoscacia	Poor	
1438	BL BX	9	Black Locust	Robinia pseudoacacia	Poor Poor	
1440	BW	9	Dox elder Black Walnut	Acer negando Augiano rigra		
1441			American Elm	Ultrus americana	Poor	
1442	BW	18	Black Walnut	Aglans rigre	Fair	
1443	BL TH	7	Black Locust Thomapple/Hawthome	Robinia pseudoacacia Cragalegus spp.	Poor Poor	
1445	BL.	8	Black Locust	Robinia pseudoacacia	Poor	
1445	BX	6	Box elder	Acer negando	Poor	
1447	BL E	16	Black Locust American Elm	Robinia pseudoacacia Umus americana	Very Poor Poor	
1449	8	16	American Elm	Ulmus americana	Poor	no tag in h20, move E 1ft
1450		9	Arreston Elm	Ultrus americana		
1451	BL BC	10	Black Locust	Robinia pseudoacacia	Poor	x1
1453	BC BL	8	Wild Black Cherry Black Locust	Pronos serctine Robinio pseudoacacia	Poor	
1454	BL		Black Locust	Robinia pseudoscacia	Poor	
1455	8	- 8	Rasswood	Tilie americana		
1450	BW	7	Black Walnut	Auglans nigra	Fair Poor	
1457	BL BL	- 6	Black Locust Black Locust	Robinia pseudoacacia Probinia pseudoacacia	Poor	
1450	BL	10	Black Locust	Robinia pseudoscacia Robinia pseudoscacia	Poor	×1
1400	8	7	Basewood	Tilly americana	Page	
1451	BL DI	8	Black Locust Black Locust	Robinie pseudoacacia	Poor Poor	
1402	BL.	8	Basswood	Robinia pseudoacacia 78ia americana	For	
1454	BL	9	Black Locust	Robinia pseudoacacia	Poor	
1455	BL	6	Black Locust			
1496	BL BL	9 8	Black Locust Black Locust	Robinia pseudoacacia Робони равидоасаска	Poor Poor	
1498	BL BL	6	Black Locust Black Locust	Robinia pseudoacacia	Poor	
1400	BL	8	Black Locust	Robin's pseudoscacia	Poor	
1470	BL.	7	Stack Locust	Robinia pseudoacacia	Poor	
1471	BL BL	10	Black Locust Black Locust	Robinia pseudoscacia Robinia pseudoscacia	Poor Poor	
1472	BL BL	6	Black Locust	Robinia pseudoscacia	Poor	
1474	BL	- 8	Black Locust	Robinia pseudoacacia	Poor	
1475	BL	10	Black Locust	Robin's pseudoscacia		
1476	BL BL	13	Black Locust Black Locust	Robinia pseudoacacia Robinia pseudoacacia	Poor Poor	
1478	BL	15	Black Locust			
1479	BL		Black Locust	Robin's pseudoscacia	Poor	
1480	BL BL	9 14	Black Locust Black Locust	Robinia pseudoscacia Robinia pseudoscacia	Poor Poor	
1482	BL.	18	Black Locust	Potivir pseudoacacia Rotivir pseudoacacia	Poor	
1483	Bf	6	Black Locust	Robinia pseudoacacia	Poor	
1454	BL	- 6	Black Locust	Plobinia paecidoscacia	Poor	
1485	BL BL	13	Black Locust Black Locust	Robinia pseudoacacia Robinia pseudoacacia	Poor Poor	x1
1487	BL	15	Black Locust	Robinia pseudoacacia	Poor	
1455	DC.	8	Wild Black Cherry	Prants senting		
1489	BL BL	8	Black Locust Black Locust	Robinia pseudoacacia	Poor	
1490	BL BL	12	Black Locust Black Locust	Robinia pseudoscacia Robinia pseudoscacia	Poor	
1492	BL	6	Black Locust	Robin's pseudoscacia	Poor	
1493	BL	- 6	Black Locust	Robinia pseudoacacia	Poor	
1494	BL BL	9	Black Locust Black Locust	Robinia pseudoscacia	Poor Poor	
1490	YB	10	Yellow Birch	Robinia psaudoacacia Betula alleghaniensis	Fair	
1497	BL	7	Black Locust	Robinia pseudoacacia	Poor	
1498	BL	15	Black Locust	Robinis pseudoscacia	Poor	
1400	BL.	12	Black Locust Basewood	Robinia pseudoacacia Tilia americana	Poor	
1501	BC	15	Wild Black Cherry	Promos perotine	Book	
1502	BL	9	Black Locust	Robinia pseudoacacia	Poor	
1503 1504	BL BL	12	Black Locust		Poor Poor	
1504	BL BL	12	Black Locust Black Locust	Robinia pseudoacacia Robinia pseudoacacia	Poor	
1506	BL	16	Black Locust	Robinia aseudoacacia	Poor	
1507	BL Bi	14	Black Locust	Robin's pseudoscacia	Poor	
1508	BL BL	14	Black Locust Black Locust	Robinia pseudoacacia Robinia pseudoacacia	Poor Poor	-
1510	BL	9	Black Locust	Robinia pseudoacacia	Poor	
1511		6	Black Locust			
1512	BL BL	10	Black Locust Black Locust	Robinia pseudoacacia	Poor	
1514	BL	10	Black Looust	Robinia pseudoscacia Robinia pseudoscacia	Poor	
1515	BL	9	Black Locust	Robinia pseudoscacia	Very Poor	
1518	BL BL	13	Stack Locust			
1517	BL BL	12	Black Locust Black Locust	Robinia pseudoacacia Robinia pseudoacacia	Poor	
1519	BL	9	Black Locust	Robinia pseudoacacia	Poor	
1520	BL	6	Stack Locust	Robinia pseudoacacia	Poor	
1521	BL	7 8	Black Locust	Robinia pseudoacacia	Poor	
1522	BL.	8	American Elm Black Locust	Ulmus americana Robinia pseudoacacia	Poor Poor	
1524	BL	10	Black Locust		Door	
1525	E BL	13	American Elm	Ulmus americana	Poor	
		13	Black Locust	Robinia pseudoscacia Robinia pseudoscacia	Poor Poor	
1525	91					
1525 1527 1528	BL BL	12	Black Locust Black Locust	Robin's pseudoscacia	Poor	
1527 1538 1529	BL BL	15	Black Locust Box elder	Robinia pseudoscacia Acer regundo	Poor	
1527 1538 1529 1530	BL BL BX	15 7 17	Black Locust Box elder Black Locust	Robinia pseudoscacia Acer regundo Robinia pseudoscacia	Poor Poor Poor	
1527 1538 1529	BL BL	15	Black Locust Black Locust Black Locust	Robinia pseudoscacia Acer regundo Robinia pseudoscacia Robinia pseudoscacia	Poor Poor Poor	
1527 1538 1529 1530 1531 1532 1533	BL BL BL BL BL BL	15 7 17 18 9	Black Locust Black Locust Black Locust Black Locust Arrestan Elm Black Locust	Robinia pseudoscacia Acer regundo Robinia pseudoscacia Robinia pseudoscacia Umas americana Robinia pseudoscacia Pobinia pseudoscacia	Poor Poor Poor Poor Fair Poor	
1527 1536 1529 1530 1531 1532 1533 1533	BL BL BL BL E BL BL	15 7 17 18 9 9	Black Locust Black Locust Black Locust American Elim Black Locust Black Locust	Robinia pasudoscacia Acer regiondo Robinia pasudoscacia Robinia pasudoscacia Ultrus arterizana Robinia pasudoscacia Robinia pasudoscacia	Poor Poor Poor Poor Fair Poor	
1627 1538 1529 1530 1531 1532 1533 1534 1535	8L BL BL BL BL BL BL BL	15 7 17 13 9 9	Black Locust Box eider Black Locust Black Locust American Ellin Black Locust Black Locust Black Locust	Robinia pseudoacecia Acer negundo Robinia pseudoacecia Robinia pseudoacecia Umsar americana Robinia pseudoacecia Robinia pseudoacecia Robinia pseudoacecia	Poor Poor Poor Poor Poor Poor Poor	
1527 1538 1529 1530 1531 1532 1533 1534 1535 1536	BL BX BL BL E BL BL BL BL	15 7 17 18 9 9	Black Locust Box elder Black Locust Black Locust American Elim Black Locust Black Locust Black Locust Black Locust	Robinia presidenciali Acer negundo Robinia presidencialia Robinia presidencialia Umisi americana Robinia presidencialia Robinia presidencialia Robinia presidencialia	Poor Poor Poor Poor Fair Poor Poor Poor	
1927 1528 1529 1530 1531 1532 1533 1534 1536 1536 1537 1538	8L BL BL BL BL BL BL BL BL BL	15 7 17 13 9 9 12 8 13 9	Black Locust Block Locust Black Locust	Побліть ревиданській Алея перилібі Побліть ревиданській Побліть ревиданській (Ітпил этпесістві Побліть ревиданській Побліть ревиданській	Poor Poor Poor Poor Poor Poor Poor Poor	
1627 1528 1529 1530 1531 1532 1533 1534 1536 1536 1536 1537 1538	8L BL BL BL BL BL BL BL BL BL	15 7 17 18 9 9 12 8 13 9	Black Locust Box either Black Locust Black Locust Black Locust American Elim Black Locust American Elim American Elim	Педний равизанский Асег педила Педний равизанский Педний равизанский Отлика изменский Отлика изменский Отлика От	Poor Poor Poor Poor Poor Poor Poor Poor	
1927 1528 1529 1530 1531 1532 1533 1534 1536 1536 1537 1538	8L BL BL BL BL BL BL BL BL BL	15 7 17 13 9 9 12 8 13 9	Black Locust Block Locust Black Locust	Побліть ревиданській Алея перилібі Побліть ревиданській Побліть ревиданській (Ітпил этпесістві Побліть ревиданській Побліть ревиданській	Poor Poor Poor Poor Poor Poor Poor Poor	x1

1545	BL.	12	Black Locust	Robinia pseudoacacia	Poor	
1545	BL RI	10	Black Locust Black Locust	Robinia pseudoscacia Robinia pseudoscacia	Poor Poor	
1540	BL				Page	
1549	BL	12	Black Locust	Robinia pseudoacacia	Poor	
1550	BL BL	6 7	Black Locust Black Locust	Robin's pseudoscacia Robin's pseudoscacia	Poor Poor	
1552	BL	6	Black Locust	Robinie asendoacacia	Poor	
1553	BL	12	Black Locust	Побечи двехионски	Poor	×2
1554 1555	BL BL	13	Black Locust Black Locust	Robinia pseudoacacia	Poor Poor	
1556	E E	13	American Elm	Robinia pseudoscacia Umus americana	Poor	
1557	BL	14	Black Locust	Robinia pseudoacacia	Poor	
1558	BL	13			Poor	
1559	BL BL	15	Black Locust Black Locust	Robinia pseudoacacia Robinia pseudoacacia	Poor	
1561	BL	9	Black Looust	Robinia pseudoacacia	Poor	
1502	BL	7	Black Locust	Robin's pseudoscacia	Poor	
1563	BL BL	19	Black Locust	Robinie pseudoacacia	Poor Poor	
1555	BL.	17	Black Locust Black Locust	Robinia pseudoscacia Robinia pseudoscacia	Poor	
1506	8	8	American Elm	Ulmus americana	Poor	
1567	BL RI	15	Black Locust	Robin's desodoscenia	Poor	
1509	BL.	8	Black Locust Black Locust	Robinia pseudoacacia Robinia pseudoacacia	Poor Poor	
1570	BL	8	Black Locust	Robinia pseudoacacia	Poor	
1571	BL	8	Black Locust	Robinia pseudoacacia Acer negundo	Page	
1572	BX BL	8	Box elder	Acer negundo	Poor Poor	
1574	BL.	12	Black Locust Black Locust	Robinia pseudoscacia Pobinia pseudoscacia	Poor	
1575	BL	13	Black Looust		Poor	
1576	BL	14	Black Locust	Robin's pseudoscacia	Poor	
1577	BX BL	12	Box elder Black Locust		Poor Poor	
1579	584	7		Robinia pseudoacacia Aper saccharinum	Foir	
1580	BL	14	Black Locust	Robinia pseudoacacia	Poor	
1581	BL BL	15		Robinia pseudoscacia Robinia pseudoscacia	Poor Poor	
1583	BL.	12	Black Locust Black Locust	Robinia pseudoacacia Robinia pseudoacacia		
1584	BW	16	Black Walnut	Augians rigre	Fair	
1585	BL		Black Locust	Robinis pseudoacacia		
1588	BL BL	8 13	Black Locust Black Locust	Robinia pseudoacacia	Poor Poor	
1588	BL	13	Black Locust	Robinia pseudoacacia Robinia pseudoacacia	Poor	
1589	BL	- 8	Black Locust	Robinia pseudoacacia	Poor	
1590	BL BI	10	Black Locust	Robin's pseudoscacia	Poor Poor	
1592	BL	9	Black Locust Black Locust	Robinia pseudoacacia Robinia pseudoacacia	Page	
1503	BL	10	Black Locust	Robin's pseudoscacia Robin's pseudoscacia	Poor	
1594	E SM	8 14	American Elm	Ulmus americana Aper saccharinum	Poor	
1596	EM E	14	Silver Maple American Elm	Aper saccharinum Umus americana	Fair Very Poor	
1597	DL	15	Black Locust	Robin's pseudoscacia	Poor	
1508	ε	21	American Elm	Ulmus americana	Page	
1599	8X 8W	10	Blox elder Black Walnut	Acer negando Juglana rigra	Poor	x1
1901	BM	10	Black Walnut	Augians nigra	Fair	
1002	833	12	Silver Maple	Aper aucoharinum	Door	
1903	E DL	15	American Elm Black Locust	Umus americana	Fair	
1606	BL BL	17	Black Locust Black Locust	Robinia pseudoscacia Robinia pseudoscacia	Poor Poor	
1000	BL		Black Locust	Robin's pseudoscacia	Very Poor	
1607	BL BL	9 8	Black Locust	Robinia pseudoacacia	Poor	
1509	BL E	16	Black Locust Arreston Elm	Robinia pseudoacacia Ulmus americana	Poor Poor	
1510	SM	16	Silver Maple	Aper saccharinum	Fair	
1511	BL	6	Black Locust	Robin's pseudoscacia	Poor	
1612 1613	SM	16	Silver Maple Sick eider	Aper sacoharinum	Fair Poor	
1514	SM	16	Silver Maple	Aper negando Aper saccharinum	Fair	
1015	SM	- 6	Silver Maple	Aper sacchadoure	Fair	
1515	TH	10	Tromapple/flewfrome	Crissingus app.	Poor	
1617	TH	21	Thomapple/Hawthome Black Walnut	Crotsegus spp. Auglans nigra	Poor Fair	×7
1519	BW	18	Black Walnut	Jugians rigre		
1020	BM	22	Black Walnut	Auglans nigra	Fair	
1621	B.M.	16 22	American Elm Black Walnut	Ulmus americana	Fair Fair	
1023	BW	19	Black Walnut	Auglans nigra Auglans nigra	Fer	
1924	BW	19	Black Walnut	Algians rigra	Fair	
1625	BW	9 18	Black Walnut	Augians rigra	Fair Fair	
1626	BW	18	Black Walnut Black Walnut	Aglans rigra Aglans rigra	Fair	
1628	BW	9			Poor	
1029	BM	26	Black Walnut	Auglans nigra	Poor	
1630	BW	16	Black Walnut Black Locust	Auglana rigna Robinia pseudoacacia	Fair Very Poor	
1532	DL	6	Black Locust	Robin's pseudoscacia		
1633	BL	- 8	Black Locust	Robinia pseudoacacia	Poor	
1634	BW	14	Black Walnut Black Walnut	Auglans nigra	Fair	
1036	BL	9	Black Locust	Juglans rigre Robinis pseudoscacia	Page	
1537	BL	9	Black Locust	Побили двехибающий	Poor	
1938	BL.	15	Black Locust	Robinia aseudoacacia	Poor	
1539	BL BL	15	Black Locust Black Locust	Robinia pseudoscacia Robinia pseudoscacia	Poor Poor	
1041	BL	9	Black Locust	Robin's pseudoscacia	Poor	
1642	BL	17				
1543	BL BL	23	Black Locust Black Locust	Robinia pseudoacacia	Poor	
1645	BL.	12	Black Locust Black Locust	Robinia pseudoacacia Robinia pseudoacacia	Poor	
1545	DL	14				
1647	BL	14	Black Locust	Robinia pseudoacacia	Poor	
1548 1540	GA SM	18	Green Ash Silver Maple		Poor Very Poor	×1
	SM	17	Silver Maple Silver Maple	Aper sacoharinum Aper sacoharinum	Fair	×1
1550	GA	9	Green Ash	Frenings permanaging	Very Poor	
1650	BW.	13	Black Walnut	Auglans nigra	Fair	
1650 1651 1652			Dox elder	Acer regards	Poor	
1650 1651	BX BX	8	Pox eider	Acer agovate	Page	
1650 1651 1662 1653 1664 1655	BX BX GA	8 7	Box elder Green Ash	Acer regundo Frantsia pentsylvanica	Poor Poor	
1650 1651 1652 1653 1654 1656 1656	BX BX GA GA	8 7 7	Box elder Green Ash Green Ash	Frantsia pannsylvanica Frantsia pannsylvanica	Poor Poor	
1650 1651 1652 1653 1654 1656	BX BX GA	8 7 7 7	Box elder Green Ash	Franks pensylvatics	Page	

1992		12	American Ein	Ulmus americana	Poor	
1003	SM	15	Silver Maple	Aper saccharisum	Fair	
1984	GA.	13	Green Ash	Fraxinus penssylvenica	Poor	
1995	8	17	American Elm American Elm	Ulmus americana Ulmus americana	Poor	
1997	TH	6	ThomappierHawthome	Crategus spp.	Poor	
1008	GA	7	Green Ash	Estatus pennsylvenica		
1999	SM	17	Silver Maple	Ager seccharisom	Poor	
1070	SM	10	Silver Mople	Aper saccharisum	Poor	
1671	SM SM	18	Silver Maple Silver Maple	Aper seponentium	Poor Poor	
1072	SM	17 25	Siner Maple Siner Maple	Aper sepatantum Aper sepatantum	Poor	
1974	BX	8	Box elder	Acer regundo	Poor	
1075	GA	6	Green Ash	Francius passavivance	Yery Poor	
1676	GA	- 6	Green Ash	Fraxinus penssylvenica	Very Poor Fair	
1077	184	- 0	Norway Maple Blue Spruce	Acer pistanoides	Fair	
1678	88	10	Stue Spruce	Piona purgers	Fair	
1079	BX BX	12	Box elder	Acer regundo	Poor	
1981	BX BX	12	Box elder Box elder	Aper regundo Aper regundo	Poor	
1582	BX	15	Box elder	Aper regundo	Poor	
1983	BX	8	Box elder	Acer regundo		
	BX	14	Box elder		Very Poor Very Poor Poor	
1685	8X	- 6	Box older	Acer regundo	Poor	
1086	CT SM	24	Cottonwood Siner Maple	Populus deltoides Apar saccharinum	Poor	
1587	GA.	16	Siner Maple	Apar sacchannom	Fair Line Ores	×3
1589	BW	8	Green Ash	Fraxinus pennsylvenica Juglims right	Very Poor	
1990	BW	9	Black Walnut Black Walnut	Jugians nigra	Fair	
1091	BS	14	Dive Spruce		Good	
1602	88	13			Good	
1093	BS	14	Blue Spruce Blue Spruce Blue Spruce	Ploss purgers Ploss purgers	Good	
1004	88	13	Stue Spruce	Piosa pungens	Good	
1095	BM	9 23	Black Walnut Black Locust		Poor	_
1995	BL	15	Black Locust	Robinia pseudoscacia Robinia pseudoscacia	Fair	
1098	BL	22	Black Locust	Robinia pseudoscacie	Prov	
1999	BL	9	Black Locust	Robinia pseudoscacia Robinia pseudoscacia	Fair	
1700	BW	24	Black Walnut	Juglans nigra	Fair	
1701	BL	8	Black Locust	Robinia pseudoscacia	Poor	
1702	BW	15	Black Walnut Black Walnut	Juglans nigra	Fair	
1703	BW	26	Black Wahut Black Wahut	Juglans nigra Juglans nigra	Yery Poor	x1
1705	TH	6	Thorrappie/Havithorse	Crategue app.	Poor	A1
1708	BW	12	Black Walnut	Juglans nigra	Poor	
1707	BW	25	Black Walnut	Juglans nigra	Fair	
1708	BW	9	Black Walnut		Poor	
1709	BW	17	Black Walnut Black Walnut	Juglans nigra	Poor	
1710	BW	15 30	Black Walnut	Juglens nigns	Poor Fair	
1712	DW.	25	Black Walnut	Juglans nigra Juglans nigra	Fair	
	BL	19	Black Locust	Robina pseudoscacia	Pror	
1713	BL	10	Black Locust	Abbinia pseudoscacia	Poor	
1715	BL	26	Black Locust	Plobinia pseudoscecie		
1719	BT	15	Black Locust	Robinia pseudoscacia	Fair	
1717	BL B	24	Black Locust	Alabina pseudoscacia	Poor	
1719	BL	35	Basswood Black Locust	Tilla americana Robinia pseudoscacie	Poor	
1720	BL	14	Black Locust	Analinia pseudoscacia	Poor	
1721	BW	7	Black Walnut	Jugiana nigra	Poor	
1722	BW	9	Black Walnut	Jugiters reigns	Poor	
1723	BW	15	Black Walnut	Juglans nigra	Poor	
1724	BW BX	12	Black Watrut	Jugliers regre	Poor	x1
1725	BX BX	- 6 19	Box elder Black Walnut	Acer regundo Juglans nigna	Poor	
1727	BW	10	Disch (Bleto A	Juglans right	Poor	
1728	BW	12	Black Walnut	Jugiana nigra	Poor	
1729	BW	14	Black Walnut Black Walnut	Juglans nigra		
1730	8X	8		Aper regundo	Fair	
1731	BW	15	Black Walnut		Poor	
1732	BL	19	Black Locust Black Walnut	Anthinia pseudoscacia Juglana nigra	Poor	
1734	BW	13	Black Walnut	Jugiana nigra Jugiana nigra	Poor	
1735	BW	12	Black Walnut	Jagans rigra	Poor	
1738	BW	8		Juglans nigra	Pror	
1737	BW	13	Black Walnut	Juglans nigra	Poor	
1738	BW	14	Black Walnut	Juglens regre		
1739	BL.	9 14	Black Locust Black Locust	Aobinia pseudoscacia	Poor	
1741	BW	9	Black Walnut	Robinia pseudoscacia		
1742					Poor	
1743	BW	- 6	Black Walnut	Juglans nigra Juglans nigra	Poor Poor	
	BW	6 7	Black Walnut Black Walnut	Juglans nigra Juglans nigra	Poor Poor	
1744	BW	6 7 15	Black Walnut Black Walnut	Juglans nigra Juglans nigra Juglans nigra	Poor Poor Poor	
1744	BW BW	6 7 15	Black Walnut Black Walnut Black Walnut Black Walnut	Juglans nigra Juglans nigra Juglans nigra Juglans nigra	Poor Poor Poor	
1744 1745 1746	BW BW	6 7 15 6	Black Walnut Black Walnut Black Walnut Black Walnut Wild Black Chemy	Jaglars ngra Jaglars ngra Jaglars ngra Jaglars ngra Jaglars ngra Prunus seroina	Poor Poor Poor Poor	X1
1744 1745 1746 1747	BW BW BW	6 7 15	Black Walnut Black Walnut Black Walnut Black Walnut Wild Black Chemy	Jaglars ngra Jaglars ngra Jaglars ngra Jaglars ngra Jaglars ngra Prunus seroina	Poor Poor Poor Poor	
1744 1745 1746	BW BW	6 7 15 6	Black Welnut Black Welnut Black Welnut Black Welnut Black Welnut Black Cherry Black Welnut Box edder Thornspiel/feethone	Juglies niges Juglies niges Juglies niges Juglies niges Anurus sections Juglies niges Anurus sections Juglies niges Contemporate Contemporate Contemporate	Poor Poor Poor Poor	x1 x1
1744 1745 1746 1747 1747 1748 1749 1750	BW BW BW BC BW BX TH BW	6 7 15 6 12 8 7 6	Black Welnut Black Welnut Black Welnut Black Welnut Black Welnut Black Cherry Black Welnut Box edder Thornspiel/feethone	Jaglies nigra Jaglies nigra Jaglies nigra Jaglies nigra Jaglies nigra Anuse serotina Jaglies nigra Acor cegundo Cratesque spo- Jaglies nigra	Poor Poor Poor Poor Poor Poor Poor Poor	
1744 1745 1746 1747 1747 1748 1749 1750 1751	BW BW BW BC BW BX TH BW BW	6 7 15 8 12 8 7 6 9	Black Welnut Black Welnut Black Welnut Black Welnut Black Welnut Wild Black Cherry Black Welnut Black Welnut Black Welnut Black Welnut Black Welnut Black Welnut	Juglies nigre Juglies nigre Juglies nigre Juglies nigre Annue serona Juglies nigre Acer reguesto Crategue spo Juglies nigre Juglies nigre	Poor Poor Poor Poor Poor Poor Poor Poor	
1744 1745 1746 1747 1747 1748 1749 1750 1751	BW BW BC BW BX TH BW BW BW	6 7 15 6 12 8 7 6 18 19	Black Webs.d.	Juglists nigra Juglists nigra Juglists nigra Juglists nigra Annus serona Juglists nigra Acer regardo Crategue spo Juglists nigra Juglists nigra Juglists nigra Juglists nigra	Poor Poor Poor Poor Poor Poor Poor Poor	
1744 1745 1746 1747 1747 1748 1749 1750 1751 1752 1753	BW BW BW BC BW BX TH BW BW BW BW	6 7 15 8 12 8 7 6 16 19 19	Black Webnut Black Webnut Black Webnut Black Webnut Black Webnut Wild Black Cherry Black Webnut Box edder Thomappin/franthome Black Webnut	Jugless nigre Acer regissels Createges sup Jugless nigre Jugless nigre Jugless nigre Jugless nigre Jugless nigre	Poor Poor Poor Poor Poor Poor Poor Poor	
1744 1745 1746 1747 1747 1748 1749 1750 1751	BW BW BC BW BX TH BW BW BW	6 7 15 6 12 8 7 6 18 19	Black Webnut Black Webnut Black Webnut Black Webnut Black Webnut Wild Black Cherry Black Webnut Box edder Thomappin/franthome Black Webnut	Jagless nigre Jagless nigre	Poor Poor Poor Poor Poor Poor Poor Poor	
1744 1745 1746 1747 1748 1747 1749 1750 1751 1752 1753 1754 1755 1755	BW BW BW BC BW BW BW BW BW BW BW BW	6 7 15 8 12 8 7 6 18 19 9	Black Walnut, Black Walnut, Black Walnut, Black Walnut, Black Walnut, Widd Black Charry Black Walnut, Base dolor Thornopolal Hawtheres Black Walnut, Black W	Jupleter nigre Jupleter nigre Jupleter nigre Jupleter nigre Jupleter nigre Pronue seronina Jupleter nigre Accor registed Contempor spp Jupleter nigre	Poor Poor Poor Poor Poor Poor Poor Poor	
1744 1745 1746 1747 1748 1749 1750 1751 1752 1753 1754 1755 1755 1755	BW BW BW BC BW BW BW BW BW BW BW BW BW BW BW BW BW	6 7 15 8 12 8 7 6 18 19 9	Black Walnut, Black Walnut, Black Walnut, Black Walnut, Black Walnut, Widd Black Charry Black Walnut, Base dolor Thornopolal Hawtheres Black Walnut, Black W	Japles ngm Japles ngm Japles ngm Japles ngm Japles ngm Prinus serona Japles ngm Japles ngm	Peer Poer Poer Poer Poer Poer Poer Poer	
1744 1745 1746 1747 1747 1748 1749 1750 1751 1752 1753 1754 1755 1755 1756 1757 1758	BW BW BW BC BW BW BW BW BW BW BW BW BW BW BW BW BW	6 7 15 8 12 8 7 6 15 10 9 9	Black Wahnst. Black Wahnst. Black Wahnst. Black Wahnst. Black Wahnst. Was Black Cherry. Black Wahnst.	Juplies roge Juplies roge Juplies roge Juplies roge Privis section Juplies roge Acer register Contingue up Juplies roge Juplies roge	Poor Poor Poor Poor Poor Poor Poor Poor	
1744 1745 1746 1747 1747 1748 1749 1750 1751 1752 1753 1754 1755 1755 1756 1757 1758 1759	BW BW BW BC BW BW BW BW BW BW BW BW BW BW BW BW	6 7 15 6 12 8 7 6 15 15 10 2 2 12 2 2 10 6 9 9	Black Wahnst. Black Wahnst. Black Wahnst. Black Wahnst. Black Wahnst. Was Black Cherry. Black Wahnst.	Juplies roge Juplies roge Juplies roge Juplies roge Privis section Juplies roge Acer register Contingue up Juplies roge Juplies roge	Poor Poor Poor Poor Poor Poor Poor Poor	
1744 1745 1746 1747 1747 1748 1749 1750 1751 1752 1753 1754 1755 1756 1757 1756 1757 1759 1750	BW BW BW BC BC BW BW BW BW BW BW BW BW BW BW BW BW BW	6 7 15 8 12 8 7 6 15 10 9 12 9 9 9 8 12	Black Welnist Black Geografies Black Welnist Black Welnist Black Geografies Black Welnist Black Welni	"Орфия пурти "Орфия пурти "Орф	Poor Poor Poor Poor Poor Poor Poor Poor	
1744 1745 1746 1747 1748 1747 1750 1751 1751 1752 1753 1754 1755 1756 1757 1758 1758 1759 1759 1759 1760 1761	BW BW BW BW BW BW BW BW BW BW BW BW BW B	6 7 7 15 6 12 2 3 7 6 15 15 15 15 15 15 15 15 15 15 15 15 15	Black Weinzl Black Weinzl Black Weinzl Black Weinzl Black Weinzl Black Weinzl Black Boxe Chowy Black Weinzl Black Locarel Black	"Орфия пура "Орфия пура "Орфи	Peer Poor Poor Poor Poor Poor Poor Poor	
1744 1745 1745 1746 1747 1748 1749 1750 1751 1752 1753 1753 1755 1755 1756 1757 1759 1750 1750 1760 1760 1760 1760 1760 1760 1760 176	BW BW BW BC BW BW BW BW BW BW BW BW BW BW BW BW BW	6 7 15 6 7 12 8 7 6 15 19 9 10 6 9 9 10 6 9	Black Weinzl Black Black Locatel Bl	"Јајран пурт "Јајран пурт "Јајран пурт "Јајран пурт "Јајран пурт "Анге дости "Анге дости "Јајран пурт "Јајран пурт "Јајра	Poor Poor Poor Poor Poor Poor Poor Poor	
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1744 1745 1746 1747 1748 1749 1759 1759 1759 1759 1759 1759 1759 175	BW B	6 7 15 6 12 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Black Wilmid Black Wilmid Black Wilmid Black Wilmid Black Obery Black Wilmid Black Obery Black Wilmid Black Obery Black Wilmid Green Avin Black Wilmid Green	"Јајран пура "Јајран пура "Јајран пура "Јајран пура "Разни вогота "Јајран пура "Јајран пура "Јајра пура пура "Јајра пура пура "Јајра пура пура пура "Јајра пура пура пура пура пура пура пура пу	Poor Poor Poor Poor Poor Poor Poor Poor	х1
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1744 1745 1746 1747 1748 1749 1749 1759 1751 1752 1753 1754 1755 1758 1759 1759 1759 1759 1760 1761 1762 1763 1765 1765 1765 1765 1765 1765 1765 1765	BW BW BW BC BC BW GA BL BL BC BW	6 7 7 15 8 8 12 2 8 7 7 6 8 12 2 9 10 8 8 12 12 13 13 13 13 14 15 15 15 15 15 15 15 15 15 15 15 15 15	Black Webral Black Locate Black Webral Black Locate Black	"Андент пред "Андент	Poor Poor Poor Poor Poor Poor Poor Poor	xi xi
1744 1745 1746 1747 1748 1749 1759 1751 1752 1753 1754 1755 1756 1756 1756 1756 1756 1756 1756	BW B	6 7 7 15 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	Black Wilmud Black Wilmud Black Locatel Black Wilmud Black Wil	Julgáris rigina Julgáris Julgári	Poor Poor Poor Poor Poor Poor Poor Poor	xi xi
1744 1745 1746 1747 1748 1749 1749 1759 1751 1752 1753 1754 1755 1758 1759 1759 1759 1759 1760 1761 1762 1763 1765 1765 1765 1765 1765 1765 1765 1765	BW BW BW BC BC BW GA BL BL BC BW	6 7 7 15 8 8 12 2 8 7 7 6 8 12 2 9 10 6 9 8 12 12 14 15 15 15 15 15 15 15 15 15 15 15 15 15	Black Webral Black Locate Black Webral Black Locate Black	"Андент пред "Оружет пред "Оружет пред "Оружет пред "Поками в воспоза "Оружет пред "Оружет пред	Poor Poor Poor Poor Poor Poor Poor Poor	xi xi

1775	-					
1225	BT.	10	Black Locust Black Walnut	Robinia pseudoacacia Auglana riigna	Poor	
1777	BL	10	Black Locust	Robinia aseudoacacia	Poor	
1778	B	13	Basewood	769 americana	Fair	
1779	8	12	Basswood	Title americana	Fair	
1780	BL	- 8	Black Locust	Robinia pseudoacacia	Poor	
1781	BL	6	Plack Locust	Probinie pseudoacacia	Poor	
1782	TH	- 6	Thomapple/Hawthome	Crotsegus spp.	Poor	
1783	BL	15			Fair	
1784	8	16	Basswood	Tile americana	Fair	×1
1785	BL	10	Black Locust	Robin's pseudoscacia	Poor	
1788	Ε	15	American Elm	Umus americana	Poor	
1787	BL B	28	Black Locust	Robinia pseudoacacia 769 americana	Poor Foir	
			Basswood	Title americana		×2
1789	BL	10	Black Locust	Robinia pseudoacacia	Poor	
		15	Basswood	769 americana	Poor	×1
1791	TH	13	Thomappie/Hawthome	Croroogus spp.	Fair	
1793	BL	19	Sugar Maple Black Locust	Aper sacchases	Fair	
1794	BL	17	Black Locust	Robinia pseudoacacia Robinia pseudoacacia	Very Poor	dead
1796	6L	17	Arrestoen Elm	Ultrus americana	Base	9990
1796	BW	18	Black Walnut	Aiglans rigra	Fair	
1797	BL	15	Black Locust	British assertances	Fair	
1798	8	7	Basswood	Robinia passidoscacia Tilia americana	Poor	
1799	BL	10	Black Locust	Robinis pseudoscacia	Poor	
1800	BL	- 6	Black Locust	Robinia pseudoacacia	Poor	
1801	SU	7	Sugar Maple	Acer sacchasure	Poor	
1802	BL	13		Probinie pseudoacacia	Poor	
1803	BL	17	Black Locust	Robinia pseudoacacia	Poor	
1804	BL	- 1	Black Locust	Pobinir pseudoscacia	Poor	
1805	BW	9	Black Walnut	Augians rigre	Fair	
1800	DL.	15	Black Locust	Robin's pseudoscacia	Poor	
1807	WA	- 6	White Ash	Francisco arresidante	Poor	
1808	BL BI		Black Locust	Robinis pseudoscacia	Poor	
		10	Black Locust	Робиче двесярасаске		
1810	BL.	8 27	Black Locust Black Locust	Robinia pseudoacacia	Poor	
1811	SM	18	Black Locust Silver Maple	Robin's pseudoscacia Aper sacoharinum	Poor Poor	×1
1812	SM	18	Siver Maple Silver Maple	Aper sacoharinum Aper sacoharinum	Poor	
1813	GA	10	Silver Maple Green Ash	Franks pannsylvanice	Poor Poor	
1815	GA	- 13	Green Ash	Frantsa pennsylvanica	Very Poor	
1816	GA	8	Green Ash	Frenings perrognance	Poor	
1817	GA		Green Ash	Franks pennsylvanice	Poor	
1515	GA	13	Green Ash			
1819	GA	14	Green Ash	Franks pennsylvanice	Poor	
1820	GA		Green Ash		Very Poor	
1821	GA	10	Green Ash	Frenins pennsylvanice	Very Poor Poor	×1
1822	BL	6	Black Locust	Robinis pseudoscacia	Poor	
1823	BL	16	Black Locust	Robinie pseudoacacia	Poor	
1824	BL	13	Black Locust	Robinia pseudoacacia		
1825	TH	7	Thomspela?rswthoms	Critisegus app.	Poor	x3
1826	BL.	7	Black Locust	Robinia pseudoacacia		
1827	BL	- 8	Black Locust	Robin's pseudoscacia	Poor	
1828	BL	12	Black Locust	Robinie pseudoacacia		
1829	BL	13	Black Locust Cases Ash	Robin's pseudoscacia	Poor	
	GA			Presiss passiyhasice	Poor	
1831	BM	16	Black Walnut	Augians nigra	Poor	
			Black Locust	Robinia pseudoscacia	Poor	
1833	BM	14	Black Walnut Black Locust	Augians rigra	Poor	
1835	BL	12		Robinia pseudoscacia Robinia pseudoscacia	Poor	
1835	DW.	13	Black Locust	Aglans rigra	Enir	
1837	BW	8	Black Walnut Black Walnut	Augians rigre	Poor	
1939	B	16	Basswood	7//a americana	Poor	x1
1839	8	6	Basswood	Title americana		
1840	BL	9	Black Locust	Robinia psaudoacacia	Poor	x1
1541	DL.	13	Black Locust		Poor	
1842	BL	13	Black Locust	Robinia pseudoacacia	Poor	
1843	BL	14	Black Locust		Poor	
1844	BL	- 6	Black Locust	Robinia pseudoacacia	Poor	
1845	BL	7	Black Locust		Very Poor	
1845	BL	13	Black Locust	Potenia pseudoscacia	Poor	
1847	BL	10	Black Locust	Robinia aseudoacacia	Poor	
1545	BL	8	Black Locust	Robin's pseudoscacia	Poor	
1849	BL	16	Black Locust	Robinia aseudoacacia		
1850	BL	10	Black Locust	Robin's pseudoscacia	Page	
1851	TH	8				×2
1852	BL.	16	Black Locust	Robinia pseudoacacia	Poor	
1853 1854	BL BL	13	Black Locust			
1854	BL BL	13	Black Locust Black Locust	Robinia pseudoacacia	Poor	
1855	BL BL	12	Black Locust Black Locust	Robinia pseudoscacia Robinia pseudoscacia	Poor Poor	
1855	BL.	10	Districtory	Tille americant	Poor	
1857	BW	10	Basewood Black Walnut	789 americana Juglans rigra	Fair	
1859	GA	7	Green Ash	Frantsis pennsylvanica	Poor	
1880	BW	14	Green Ash Black Walnut	Audiana more	Poor	
1861	BL	7	Black Locust	Robinia psaudoacacia	Poor	
1862	BW	14	Black Walnut		Poor	
1863	BL.	- 6	Black Locust	Robinia pseudoacacia	Poor	
1954	BL	17	Black Locust	Robinia associamenta	Very Poor	
1885	BL	15	Black Locust	Robinie pseudoacacia	Poor	
1900	8L	26	Black Locust	Robinis pseudoscacia	Poor	
1867	BL	6	Black Locust	Побели двехибаесной	Poor	
1998	BL	13	Black Locust	Robinia pseudoacacia	Poor	
1809	SM	19	Situr Maple	Aper ascohernum		×2
1870	BL BI	12	Black Locust	Robinia pseudoacacia	Poor	
		29	Black Locust	Robin's pseudoscacia		
1872	BL	10	Black Locust		Poor	
	BL.		Black Locust	Robinia pseudoacacia	Poor	
1874	BL	8	Black Locust			
1838	BL B	12	Black Locust Basswood	Robinia pseudoacacia 769 americana	Poor	x1
1875	8	12		789 americana		×1
1877	BL BL	10	Basswood Black Locust	7//e americana	Poor	x1
	BL	17	Black Locust Black Locust	Robinia pseudoscacia Robinia pseudoscacia	Poor Poor	X1
1878	BL.	16	Black Locust Black Locust	Robinia pseudoacacia Robinia pseudoacacia	Poor	
1879	BM	15	Black Locust Black Walnut		Fox	
1879 1880	BW	19	Black Walnut Basswood	Juglans rigre Tilis americana	Pair	
1879		14	Green Ash		Poor	
1879 1880 1881 1882		14	Green Ash Black Locust	Presinus pennsylvanice Robinie pseudoacacia	Poor	
1879 1880 1881	GA BL			Aglans rigns	Feb	
1879 1880 1881 1882 1883	GA BL		Black Walnut			
1879 1880 1881 1882 1883 1884 1885	GA BL BW B	21	Black Walnut Basswood	7/ile americana	Poor	
1879 1880 1881 1882 1883 1884 1885 1886 1887	GA BL BW B	21 9 8	Basswood Black Locust	Title americana Robinia pseudoacacia	Poor Very Poor	
1879 1880 1881 1882 1883 1884 1885	GA BL BW B	21	Basswood	Tile americana		









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TREE LIST - SHEET 2

1890	8L	13	Black Locust	Robinia pseudoacacia	Poor	
1897	GA B	9	Green Ash Basswood	Trisinus pennsylvanica Tilia americana	Poor	
1893	GA	15	Green Ash	Frantus pensylvanics	Poor	
1894	8	16	Basswood	Title americana	Poor	
1895	8	6	Basewood	7/lip americana	Poor	
1898	8	28	Basswood	7lie americana	For	
1897	BL	6	Black Locust	Robinia pseudoacacia	Poor	
1898	8	- 6 16	Basswood Basswood	789 americana 789 americana	Poor Fair	×1
1900	BL	13	Black Locust	Robin's pseudoscacia	Poor	X1
1901	8	8	Basswood	Tile americana	Poor	
1902	8	15	Basswood	74's americans	Poor	
1903	SU	17	Sugar Maple	Aper sacchaser	Fair	
1904	BL	12	Black Locust	Robinia pseudoacacia	Poor Poor	
1905	BL SM	13	Black Locust Silver Marie	Robinia pseudoscacia Aper sacoharinum	Poor	
1907	BL	13	Black Locust	Robin's pseudoscacia	Poor	
1908	BW	7	Black Walnut	Aglans rigre	Poor	
1909	BM	- 8	Black Walnut	Auglans nigra	Poor	
1910	BL	14	Black Locust	Robinia paesidoacacia	Poor	
1911	SM	12	Silver Maple Black Locust	Aper sacoharinum Robiniu pseudoscacia	Poor Poor	
1913	SM	25	Silver Maple	Aper sacoharinum	Fair	×2
1914	E .	8	American Elm	Ultrus americana	Very Poor	
1915	BL	13	Stack Locust	Robinia pseudoacacia	Poor	
1995	BL SM	14	Black Locust	Robinia pseudoacacia	Poor Poor	
1917	SM	28	Silver Maple Silver Maple	Aper saccharinum	Poor Fair	×4
1919	BL	7	Black Locust	Acer saccharinum Robinia paeudoacacia	Poor	
1920	BL	13	Black Locust	Robinia pseudoacacia	Poor	
1921	DL.	7	Black Locust	Robin's pseudoscacia	Poor	
1922	BL	7	Black Locust	Robinia psaudoacacia	Very Poor	
1923	TH B	14	Tramapple/Flawfrome	Cretingus spp. Title americana	Poor	
1924	BL.	9	Basswood Black Locust	Robinia pseudoscacia	Poor	
1925	5	13	Basswood	769 americana	Fair	
1927	8	6	Basswood	Tilia americana	Fair	
1928	BL	- 6	Black Locust	Robin's pseudoscacia	Poor	
1929	80	22	Sugar Maple			
1930	B RI	15	Basewood Black Locust	Tilis americana Robinio associacioni	Poor	-
1902	BL B	- 6	Basswood	769 americana	Poor	
1933	BL	9	Black Locust	Pobinia passidoscacia	Door	
1934	- 8	14	Basswood	Tilia americana	Fair	×1
1935		15	Basewood	769 americana	Fair	
1938	BM	24	Black Walnut Black Walnut	Augians rigre Augians rigre	Fair Poor	
1937	817	10	Black Walnut	Robinia psaudoacacia	Poor	
1939	BL	21	Black Locust	Robinia pseudoacacia	Poor	
1940	BL	13	Black Locust	Побечи двехибаесной	Poor	
1941	SM	16	Silver Maple	Aper saccharinum	Fair	
1942	BW BL	14	Black Walnut Black Locust	Auglans nigra	Fair	
1944	8	14	Basewood	Robinia pseudoacacia 789 americana	Poor	
1945	ε	17	Arrencen Elm	Ultrus americana	Very Poor	
1945	8	- 6	American Elm	Umus americana	Poor	
1947	BL	13	Black Locust	Пофечу двехибансяски	Poor	
1948	BL	14	Black Locust	Robinia pseudoacacia	Poor	
1949	TH	8	Тээтиррів Наміээти	Cretsegus app.	Poor	x4
1949	BW	8 12	Thomspole/Heathorns Black Walnut	Cretegus app. Augians rigre	Poor Fair	×4
1969 1960 1961 1962	BM BM	8 12 15 14	Thomspple/feethoms Black Walnut Black Walnut Black Locust	Cretsegus app.	Poor Fair Poor	x4
1949 1960 1961 1962 1963	BM BM BM	12 15 16 14	Thorrepple/fewhome Black Walnut Black Walnut Black Locust Black Walnut	Cretergus zqp. Juglans nigre Auglans nigre Robinie pseudoacacie Auglans nigre	Poor Fair Poor Poor	x4
1949 1950 1951 1952 1963 1964	BW BK BW	12 10 14 17 8	Thorrappie/Hexthorne Black Walnut Black Walnut Black Locust Black Walnut Norway Maple	Crelegue app. Auglans rigre Auglans rigre Robinie pseudoacacia Auglans rigre Acer placerorides	Poor Fair Poor Poor Poor	4
1949 1950 1951 1952 1963 1964 1965	BW BU BW NM BW	8 12 16 14 17 8	Thorrapple/Hawthome Black Walnut Black Walnut Black Walnut Black Walnut Norway Maple Black Walnut	Cretergus app. Juptans rigre Juptans rigre Roberie passociacacia Juptans rigre Acer planarociae Juptans rigre	Poor Fair Poor Poor Poor Poor	
1949 1950 1951 1952 1953 1954 1955 1955	BW BW BW BW BW	8 12 16 14 17 8 17	Thorrespile/Venthorne Black Walnut Black Walnut Black Userus Black Walnut Norway Majele Black Walnut Black Walnut Black Walnut	Cretegue app. Applans rigne Applans rigne Robinie pseudolacacia Applans rigne Aser planarocides Applans rigne Applans rigne Applans rigne	Poor Fair Poor Poor Poor Poor Poor	x4
1949 1950 1951 1952 1953 1954 1955 1955	BW BL BW NM BW BW BW BL	8 12 16 14 17 8	Thomspele/fewfhome Black Welnut Black Welnut Black Locust Black Welnut Norway Maple Black Welnut Black Welnut Black Welnut Black Welnut Black Locust	Cretergus app. Applans rigre Applans rigre Rebevire pseudolacacia Applans rigre Aser planarociaes Applans rigre Applans rigre Applans rigre Rebevire pseudolacacia	Poor Fair Poor Poor Poor Poor Poor	
1949 1960 1961 1961 1962 1963 1964 1965 1965 1967 1967	BW BU BU NM BW BW BU BL TH B	8 12 16 14 17 8 17 19 14 6	Thorrepple Yearthorne Black Walnut Black Walnut Black Walnut Black Walnut Norway Maple Black Walnut Black Walnut	Cretergus app. Applans signe Applans signe Robinie pseudolacacia Applans signe Acer plansacidae Applans signe Acer plansacidae Applans signe	Poor Fair Poor Poor Poor Poor Poor Poor Poor Po	
1949 1950 1951 1951 1952 1953 1954 1955 1955 1957 1958 1959 1950	BW BW BL BW NM BW BW BW BL TH B	8 12 16 14 17 8 17 19 19 14 6 21	Thorruppia hisothorne Black Walnut Black Walnut Black Walnut Black Locust Black Walnut Black Locust Thorruppia hisothorne Blask wood Black Locust	Continegas signi Applant rigne Applant rigne Applant rigne Applant rigne Anne platerenteles Applant rigne Applant rigne Receive procodococcis Continegas signi Receive procodococcis Continegas signi Receive procodococcis Receive procodococcis	Poor Fair Poor Poor Poor Poor Poor Poor Poor Po	x1 x1
1949 1950 1951 1951 1952 1953 1954 1955 1955 1957 1959 1959 1950 1950	BW BW BL BW NM BW BW BW BH BL TH B	8 12 16 14 17 8 17 19 19 14 6 21 12	Thorruppish Yelechtorse Black Walnut Black Walnut Black Walnut Black Walnut Black Walnut Rock Walnut Norway Mapile Black Walnut Black Walnut Black Walnut Black Walnut Black Locust Thorruppish Walnut Black Locust Thorruppish Walnut Black Locust Black Locust Black Locust	Contingua app. Applant right A	Poor Felir Poor Poor Poor Poor Poor Poor Poor Po	×1
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1949 1950 1951 1952 1953 1954 1955 1955 1957 1969 1960 1961 1963 1963 1964 1965 1965 1965 1965 1965 1965 1965 1965	BW BW BW BW BW BW BU BW	8 12 16 16 17 18 18 18 10 15 20 15 15 15 15 15 15 15 15 15 15 15 15 15	Thorregion for without Black Walnut Black Cooper Black Walnut Black Walnut Black Walnut Black Walnut Black Walnut Black Cooper Black Co	Отверрия при Дерини пред Нарами пред Арфини пред Арфини пред Арфини пред Нарами Нарами Пред Нарами Пред Нарами Пред Нарами Пред Нарами Пред Нарами Нарами Пред Нарами Нарами Пред Нарами Пред Нарами Пред Нарами Нарами Пред Нарами Пред Нарами Пред Нарами Пред Нарами Пред Нарами Нарами Пред Нарами Нарами Пред Нарами Нарами Пред Нарами	Poor Felir Poor Poor Poor Poor Poor Poor Poor Po	x1 x1
1949 1950 1951 1963 1963 1964 1965 1960 1965 1960 1961 1962 1963 1963 1964 1965 1965 1965 1965 1965 1965 1965 1965	BW B	8 12 16 16 17 18 17 18 18 18 10 15 15 15 20 15 3	Therepople from form of Black. Walnut Black. Walnut Black. Walnut Black. Walnut Black Looset Black Looset Black Looset Black Walnut Black. Looset Black Looset Black Looset Black. Loose	Отвещия ады Дорам опров Дорам Дорам опров Дорам опров Дорам До	Poor Felir Poor Poor Poor Poor Poor Poor Poor Po	x1 x1
1949 1950 1961 1961 1961 1962 1963 1964 1965 1965 1960 1961 1963 1963 1964 1963 1964 1965 1966 1967 1968 1969 1969 1969 1969 1969 1969 1969	BW BW BW BW BW BU	8 12 16 16 17 18 18 18 10 15 20 15 15 15 15 15 15 15 15 15 15 15 15 15	Thorregion in such transition of the Stack Walnut Black W	Отверрия при Дурано при Дур	Poor Felir Poor Poor Poor Poor Poor Poor Poor Po	x1 x1
1949 1950 1951 1961 1963 1963 1965 1965 1965 1965 1969 1960 1960 1961 1962 1963 1964 1965 1965 1965 1965 1965 1965 1965 1965	8W 8W 8W 8W 8W 8L 8W 8L 8W 8L 8W	8 12 16 14 17 3 17 19 11 11 11 11 11 11 11 11 11 11 11 11	Therepople foundation of Black Wilders Black Wilders Black Wilders Black Wilders Black Looset Black Looset Black Wilders Black Looset Black Wilders Black Looset Black Wilders Black Wilders Black Looset Black Loose	Отвещения пере	Poor Fair Poor Poor Poor Poor Poor Poor Poor Po	x1 x1
1949 1950 1951 1951 1952 1953 1955 1955 1959 1950 1950 1950 1953 1962 1963 1965 1965 1965 1965 1965 1965 1965 1965	8W 8	8 12 15 16 16 17 17 17 17 17 17 17 18 18 18 18 19 16 17 17 17 17 18 18 18 18 18 18 18 19 19 18 18 18 18 18 18 18 18 18 18 18 19 18 18 18 18 18 18 18 18 18 18 18 18 18	Therepople foundation of Buck Walled Black Cooled Black Walled Black Cooled Black C	Отвещения пере	Poor Fair Poor Poor Poor Poor Poor Poor Poor Po	x1 x1
1949 1950 1951 1951 1952 1953 1954 1955 1955 1955 1955 1951 1951 1951	BW BW BW BW BW BW BW BBL BL	8 12 15 16 17 17 18 17 18 18 19 15 15 15 15 16 16 17 17 17 17 17 18 18 18 19 19 19 19 19 19 19 19 19 19 19 19 19	Therepople from from ESLAC. William I Black. Wildruf I Black. Wildruf I Black. Wildruf I Black I Looset I Black Wildruf I Black I Looset I Black Wildruf I Black Looset I Black Loos	Отвещения пере Арфило пере Арфило пере Арфило пере Весеме раволования Весеме раволования Арфило пере Весеме раволования Тиги и и и пере Весеме раволования Тиги и и пере Весеме раволования Весеме	Poor Fair Poor Poor Poor Poor Poor Poor Poor Po	x1 x1
1949 1950 1951 1951 1953 1953 1953 1955 1955 1950 1957 1951 1952 1953 1954 1955 1957 1957 1957 1957 1957 1957 1957	BW B	8 12 16 16 17 17 18 18 18 18 18 19 16 17 17 12 12 12 12 12 12 12 12 12 12 12 12 12	Therepople foundation of Buck Walnut Black W	Отиверия пери Адерия оприя Адерия Одерия Адерия оприя Адерия Одерия О	Poor Felt Poor Poor Poor Poor Poor Poor Poor Poo	x1 x1
1949 1950 1951 1951 1953 1953 1955 1955 1955 1955	BW BW BW BW BW BW BW BBL BL	8 12 15 16 17 17 18 17 18 18 19 15 15 15 15 16 16 17 17 17 17 17 18 18 18 19 19 19 19 19 19 19 19 19 19 19 19 19	Boursepain loudorane Black Walter Black Loose Bla	Отверрат ара Арбано при Арбано при Видент при Видент при Арбано при Видент	Poor Felir Poor Poor Poor Poor Poor Poor Poor Po	x1 x1
1949 1950 1950 1950 1950 1950 1950 1950 195	8W 8W 8U	8 112 166 114 177 187 187 187 187 187 187 187 187 187	Boursegials load-oran Bassach State (1944) Black Hilliam State (1944) Black Hilliam State (1944) Black Hilliam State (1944) Black House (1944) Black Local State (1944)	Отверен пред Адент Адент Адент Адент Адент Адент Адент Адент Адент Адент Адент	Poor Feir Poor Poor Poor Poor Poor Poor Poor Po	x1 x1
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1949 1950 1950 1950 1950 1950 1950 1950 195	8W 8L	8 12 15 15 16 17 17 19 17 19 16 16 17 19 16 16 16 16 17 19 16 16 16 16 17 17 19 10 10 10 10 10 10 10	Strongest bendrate Strongest Stronge	Ститерии для	Poor Feir Poor Poor Poor Poor Poor Poor Poor Po	x1 x1
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1949 1950 1950 1950 1950 1950 1950 1950 195	8W 8L	8 12 15 15 16 17 17 19 17 19 16 16 17 19 16 16 16 16 17 19 16 16 16 16 17 17 19 10 10 10 10 10 10 10	Stronger Individual Control of Stronger Individual Control Indiv	Отверен дар	Poor Feir Poor Poor Poor Poor Poor Poor Poor Po	x1 x1
1949 1950 1950 1950 1950 1950 1950 1950 195	8W 8U	8 12 12 14 14 17 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18	Stronger bendrare See See See See See See See See See S	Ститерии для	Poor Poor Poor Poor Poor Poor Poor Poor	x1 x1
1949 1959 1959 1959 1959 1959 1959 1959	8W 8L	8 12 12 15 15 15 15 15 15 15 15 15 15 15 15 15	Stronger bendrare Stronger ben	Ститура дар. Адент при Адент (при Адент (пр	Poor Poor Poor Poor Poor Poor Poor Poor	x1 x1
1949 1950 1950 1950 1950 1950 1950 1950 195	BW EL BL EL	8 12 12 15 14 17 17 18 18 18 16 17 17 17 18 18 16 17 17 17 18 18 16 17 17 17 18 18 18 16 17 17 17 18 18 18 18 18 18 18 19 19 19 19 19 19 19 19 19 19 19 19 19	Short person bendrate the base of the base	Ститура нар. Ститура нар. Поститура нар. Поститура нар. Арден при нар. Тейн и при нар. Ститура нар. Тейн и при нар. Ститура нар. Тейн и при нар. Арден при нар. Ар	Poor Poor Poor Poor Poor Poor Poor Poor	x1 x1
1949 1959 1959 1959 1959 1959 1959 1959	8W 8L	8 12 12 15 15 15 15 15 15 15 15 15 15 15 15 15	Short pelan bendrate the book of the book	Ститерия мар. — Оператор Мар. — Адрем туре — Оператор Мар. — Адрем туре — Адрем туре — Адрем туре — Адрем туре — Оператор Мар. — Адрем туре — Оператор Мар. — Адрем туре — Оператор Мар. — О	Poor Poor Poor Poor Poor Poor Poor Poor	x1 x1
1945 1951 1951 1951 1951 1952 1953 1953 1955 1957 1957 1957 1957 1957 1957 1957	BW BL BW BL	8 12 12 15 15 15 15 15 15 15 15 15 15 15 15 15	Strength whether the control of the	Соверия в до	Poor Poor Poor Poor Poor Poor Poor Poor	x1 x1
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1949 1959 1959 1959 1959 1959 1959 1959	BW BL BW	8 12 12 15 15 15 15 15 15 15 15 15 15 15 15 15	Service in Montal Service in M	Сомеров 400 — Адраст пре Педера Педера пре Педера Педера пре Педера Педера пре Пе	Poor Poor Poor Poor Poor Poor Poor Poor	x1 x1
1946 1950 19	BW	8 12 12 15 14 14 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18	Service of the Control of the Contro	Сомеров 400 — Африт пре — Петенти пре — Пе	Poor Poor Poor Poor Poor Poor Poor Poor	x1 x1
1949 1959 19	BW	8 12 12 14 14 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18	Service of the Control of the Contro	Сомеров 400 — Афрант пре- педено пре- педено пре- педено пре- педено пре- педено пре- дено пре- дено пре- дено пре- дено пре-	Poor Poor	x1 x1
1946 1950 19	BW	8 12 12 15 16 16 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18	The registration of the control of t	Conteges 400 Appear rags Recognition of the Conteges and	Poor Poor Poor Poor Poor Poor Poor Poor	x1 x1
1949 1950 1950 1950 1950 1950 1950 1950 195	BW	8 12 12 15 16 16 16 17 17 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18	Service of the Control of the Contro	Сомеров мор. — Адриги пре — Петенти пре —	Poor Poor Poor Poor Poor Poor Poor Poor	x1 x1
1949 1950 19	BW	8 12 12 15 16 16 16 17 17 17 17 19 19 19 19 19 19 19 19 19 19 19 19 19	The register buildraft of the control of the contro	Сомеров 400 — Адент пред — Песев развительной развитель	Poor Poor Poor Poor Poor Poor Poor Poor	x1 x1
1949 1950 19	BW BL	8 12 12 15 16 16 16 17 17 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18	The register benderts with a second control of the	Conteges and Conte	Poor Poor Poor Poor Poor Poor Poor Poor	x1 x1
1949 1950 19	BW	8 12 12 15 16 16 16 17 17 17 17 19 19 19 19 19 19 19 19 19 19 19 19 19	The register buildraft of the control of the contro	Сомеров 400 — Адент пред — Песев развительной развитель	Poor Poor Poor Poor Poor Poor Poor Poor	x1 x1

2005						
	BL	15	Black Locust	Robinia pseudoacacia	Poor	
2005	BW	10	Black Walnut	Auglant rigre	Fair	
2007	BL	13	Black Locust	Robinia pseudoacacia	Poor	
2008	BL	17	Black Locust	Robin's pseudoscacia	Poor	
2009	SM	16	Silver Maple	Aper saccharinum	Fair	
2010	Bf	13	Black Locust	Robinia pseudoacacia	Poor	
2011	BL	13	Stack Locust		Poor	
2012	BL.	14	Stack Locust	Robinia pseudoacacia	Poor	
2013	BL	15	Black Locust	Побели двехибавсяски	Poor	
2014	ε	15	American Elm	Ulmus americana	Poor	
2015		6	American Elm	Umus americana Umus americana	Poor	
2016	8	24	American Elm	Urrus americana	Fair	
2017	BL	8	Black Locust	Robinia pseudoacacia	Poor	
2018	BL	10	Stack Locust		Poor	
2019	BM	- 8	Black Walnut	Auglans rigra	Poor	
2020	BL.	8	Black Locust	Robin's pseudoscacia	Poor	
2021	BL	10	Black Locust	Robinia pseudoacacia	Poor	
2022	DL.	11	Black Locust	Robinia pseudoscacia Robinia pseudoscacia	Poor	
2023	BL	22	Black Locust	Robinia psaudoacacia	Poor	
2024		13	American Elm	Umus americana	Poor	
2025	BL	7	Black Locust	Робичи двехибающий	Poor	
2029	BL.	- 6	Stack Locust Silver Maple	Robinia pseudoacacia	Poor	
2027	SM	15	Siver Maple	Aper sacoharinum	Fair	×1
2028	SM	20	Silver Maple	Aper saccharinum	Fair	×2
2029	BL	15	Black Locust	Robinia pseudoscacia Robinia pseudoscacia	Poor	
2030	BL BW	14	Black Locust	Robinia pseudoacacia	Poor	
			Black Walnut	Aglans rigra		
2032	BL	15	Stack Locust	Robinia psaudoacacia	Poor	
2033	BL.	16	Black Locust	Robinia pseudoacacia	Poor	
2034 2035	BL BL	19	Black Locust	Robinia pseudoscacia Robinia pseudoscacia	Poor Poor	
2035	BE	79	Black Locust	Hoteva pseudoacacia	Poor	
2036 2037	E 91	18	American Elm Black Locust	Ursus americana Robinia psaudoacacia	Poor Poor	
2037	BL C4	15	Stack Locust	Pobinie psaudoacacia Frantsis pennsylvanica	Poor Fair	
2038	GA E	16	Green Ash Arrestoen Elm	Frantsa pennsykanica Umus americana	Fair Poor	
2080	E .	27	American Elm American Elm	(forum american)	Fair	
2041	NW.	12	Norway Maple	Ulmus americana Aper platimostana	For	
2042	E	12	American Elm	Umus americana	Poor	
2042	DL.	12	Mark Locat	Debinis asserting	Poor	
2043 2044	BL	10	Black Locust Black Locust	Robinia pseudoscacia Robinia pseudoscacia	Poor Poor	
2045	E E	28	American Elm	Ulmus americana	Poor	
2045	ε	2	American Elm		Feir	
2047	8	12	Basswood	Tile americana	Poor	×1
2048	ε	19	American Elm	Ultrus americana	Very Poor	
2049	BL	18	Stack Locust	Robinia pseudoacacia	Very Poor Poor	
2050	BL	10		Robinia pseudoscacia Acer platanoides	Poor	
2061	NM	10	Norway Maple	Aper plateroides	Fair	
2052	NW	8		Aper plateroides	Fair	
2063	NM	6	Norway Maple	Aper planaroides	Fair	
2054	8	23	Norway Maple American Elm	Umus americana	Poor	
2065	NW	6	Norwey Maple Black Walnut	Aper planaroides	For	
2066	BM	18	Black Walnut	Aglans rigre	Poor	
2067		13	American Elm American Elm	Umus americana Umus americana	Poor	
2068	E 01	10	Arrencen Elm Black Locust	Robinis pseudoscacia	Poor	
2000	BL	17	Black Locust	Robinia passidoscacia	Poor	
2001	BM	16	Black Walnut	Aglans rigra	Poor Poor	
2002	DL.	6	Black Locust	Entrary may than any	Door	
2063	BL	- 6	Black Looust	Robinia pseudoscacia Robinia pseudoscacia	Poor	
2064		15		75's attestores		
2064 2065	8	16	Basswood Basswood	Tille americana Tille americana	Fair	
2064 2065 2006	8	16	Basswood Basswood	7ilio americana 7ilio americana	Fair Fair Poor	
2064 2065 2066 2067	8 8 8	16 G 16	Basswood Basswood Basswood	789 americana 789 americana 789 americana	Fair Fair Poor Fair	
2064 2065 2000 2067 2068	8 8 8	16 G 16 13	Basswood Basswood Basswood Basswood	Tilia americana Tilia americana Tilia americana Tilia americana	Fair Fair Poor Fair Fair	
2084 2085 2080 2087 2088 2088	8 8 8	16 6 16 13	Basswood Basswood Basswood Basswood Basswood	Tile americana Tile americana Tile americana Tile americana Tile americana	Fair Fair Poor Fair Fair	
2064 2065 2065 2067 2068 2069 2070	8 8 8 8	16 6 16 13 12	Basswood Basswood Basswood Basswood Basswood Basswood Basswood	Tile americana	Fair Fair Poor Fair Poor Fair Poor	
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2064 2065 2066 2067 2069 2070 2071 2072 2073	8 8 8 8 8 8	16 6 16 13 12 17 17 17 12	Basswood Norway Magle	Tille americane Aper platenoides	Fair Fair Poor Fair Fair Poor Fair Poor Poor Fair Poor Fair Poor Fair	
2064 2065 2066 2067 2068 2069 2070 2071 2072 2073 2074	8 8 8 8 8 8 8 8	16 6 18 13 12 17 17 17 12 14	Basswood Norway Magie	Tille americana Aper platenoides Aper platenoides	Fair Fair Poor Fair Poor Poor Fair Poor Fair Fair Fair Fair Fair Fair Fair Fai	
2064 2065 2066 2067 2068 2069 2070 2071 2072 2073 2074 2075	8 8 8 8 8 8 8 8 8 8 8 8	16 0 18 13 12 17 17 17 12 14 14	Basinood Norwy Maple Norwy Maple	Tille americana Aser platenoides Aser platenoides Fritting pennsylvanica	Fair Fair Poor Fair Poor Fair Poor Fair Poor Fair Poor Fair Fair Fair Fair	
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2064 2065 2006 2007 2008 2008 2000 2007 2007 2007 2007	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	16	Bisswood Bis	ТВо а тогоского ТВО на тогоского Аксер работоского Аксер работоского ТВО на тогоского СВО на тогоского ТВО	Fair Fair Poor Fair Poor Poor Fair Poor Poor Poor Poor Poor Poor Poor Po	
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2064 2065 2067 2068 2068 2070 2071 2072 2073 2074 2075 2075 2075 2076 2076 2076 2085 2085 2085	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	16 0 18 18 12 17 17 12 14 14 15 18 18 18 18 18 18 18 18 18 18 18 18 18	BBS WOOD BBS LOCAL BBS LOCAL BBS LOCAL BBS LOCAL BBS LOCAL BBS WOOD BBS WOO	ТВО а тогоского Амер работобого Амер работобого ТВО а тогоского ТВО В тогоского ТВО В тогоского ТВО В тогоского ТВО а тогоского ТВО В	Fair Fair Poor Fair Fair Poor Fair Fair Foor Foor Foor Foor Foor Foor Foor Fo	
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2219	BL	13	Black Locust	Robinia pseudoacacia	Poor	x1
2220	BL	16	Black Locust	Robinia pasodoscacia	Poor	
2221	BL	14	Black Locust	Robinia pseudoacacia	Poor	
2222	BL	15	Black Locust	Порему двехибающих	Poor	
2223	BL	- 6	Black Locust	Robinia pseudoacacia	Poor	
2224	DL.	15	Black Locust	Robinia pseudoscacia	Poor	
2225	BL	16	Black Locust	Robinia asaudoacacia	Poor	
2226	BL	10	Black Locust	Robin's pseudoscacia	Poor	
2227	BL	11	Black Looust	Robinia asaudoacacia	Poor	
2228		7	American Elm	Ultrus americana	Very Poor	
2229	BL	15	Black Locust	Robinia associoacacia	Poor	
2230	GA	7	Green Ash	Frankus pennsylvanica	Poor	
2231	SM	16	Silver Maple	Aper saccharinum	Poor	
2232	RL.	15	Black Locust	Robinia pseudoscacia	Poor	
2233	ε	12	American Elm	Umys americana	Very Poor	
2234	E	18	American Film	(Attus atteccana	Very Poor	
2235	GA	- 6	Green Ash	Frenings permanage	Very Poor	
2236	- 6		American Elm	Ulmus americana	Page	
2237	ε	9	American Elm	Umys americana	Poor	
2238	E	12	American Film	Ulmus americana	Very Poor	
2239	888	14	Silver Maple	Aper ascoheroure	Book	
2240	TH	10	Thomappie/Hawthome	Crotsegus soo.	Page	
2241	888	16	Silver Maple	Aper asopharoure	Good	
2242	GA	10	Green Ash	Franksis pennsulvanice	Poor	
2243	SM	13	Silver Magie	Aper secohernum	Fair	
2244	SM	17	Silver Manie	Ager sacoharinum	Page	
2245	GA	14	Green Ash	Frentus personance	Very Poor	
2245	GA.	7	Green Ash	Frenings perroquance	Very Poor	
2247	GA	7	Green Ash	Franks pennsylvanica	Very Poor	
2248	GA	10	Green Ash	Frening pernsylvanice	Very Poor	
2249	DW.	9	Black Walnut	Aglans rigns	Fair	
2250	80	25	Scotch Pine	Pinus sinestris	Poor	
2251	GA	13	Green Ash	Franks pennsylvanica	Very Poor	
2252	ε.	6	American Elm	Umus americana	Poor	
2253	DW.	- 17	Riack Walnut	Aglans rigra	Poor	
2254	BW	14	Black Watnut	Audens riore	Poor	
2255	E	12	American Elm	Ulmus americana	Page	
2255	80	8	Sugar Maple	Aper aecoheses	Poor	
2257	GA	- 0	Green Ash	Franks pennsylvanice	Page	
2258	BW	17	Black Watnut	Audam none	Poor	
2259	E	12	American Film	Ulmus americana	Page	
2250	BX	18	Box elder	Acer negando	Poor	
2261	TH	14	Thomappie/Hawthome	Crotsegus spp.	Poor	
2202	BW	15	Black Walnut	Audana nign	Poor	
2293	TH	10	Thomapple/Hawthome	Crossessis son.	Poor	
2254	VB.	- 6	Yellow Birch	Detute afeatanistsis	Poor	
2265	YB	13	Yellow Birch	Secus allegraments s	Very Poor	
2200	GA	13	Green Ash	Franks pensylvatics	Page Page	
2200	SM	23	Silver Maple	Aper saccharinum	Very Poor	
2208	AU	15	Austrian Pine	Pitus nigra	Page	
2200	AU	15	Austrian Pine	Pinus nigra	Poor	
2270	RE	- 6	American Beech	Fagus grandfolia	Enir	Cultiver / Ornamental
2271	BS	16	Blue Soruce	Pices purgers	Fair	CARRIER / UTBITISTOR
2272	SM	24	Silver Magie	Aper sappharours	Page	
2273	SM	26	Silver Maple	Aper seconamium	Poor	
2274	SM	25	Silver Maple		Poor	
2275	SM E	7	Arreston Elm	Aper saccharinum Ulmus americana	Poor	
2276	BX BX	- 7	Arrescen tim Rox elder	Acer regundo	Poor	
2277	BX	7	Box eider	Acer negunati	Very Poor	
2277	BX	7 8	Box eider Rox eider	Acer regundo Acer regundo	Very Poor Poor	
2279	BX	8	Box eider	Acer regundo Acer regundo	Poor	
2290	BW	7	Black Walnut	Applans nigra	Fair	
2280	- eW		eloux Walnut	August rigra	- OF	





CLIENT

GENSLER
150 W. EFFERSON, SUITE 1700
DETROIT, M 46204

PROJECT TITLE

LONG LAKE
& CROOKS

MASTERPLAN

DEVELOPMENT
LONG LAWE AND GROOGS ROAD



 PEA JOB NO.
 2020-032

 P.M.
 LA.

 DN.
 KR.

 DES.
 GM

 DRAWING NUMBER:
 CM

NOT FOR CONSTRUCTION

T-3

- 7. PLANNED UNIT DEVELOPMENT (File Number PUD2020-0018) Proposed Concept Development Plan (CDP) for Long Lake and Crooks Masterplan Development, Southwest corner of Long Lake and Crooks, Section 8, Currently Zoned O (Office) District
 - Mr. Savidant announced project architect Chris Beck of Gensler, Anthony Antone of Kojaian Properties and traffic consultant Julie Kroll of Fleis & Vandenbrink were present.
 - Mr. Antone gave a brief introduction of Kojaian Properties. He said the proposed development would serve as a gateway to North Troy.
 - Mr. Savidant presented a PowerPoint explanation of a Planned Unit Development (PUD) application.

Mr. Carlisle gave a brief introduction of the Conceptual Development Plan and how the application relates to the Master Plan for North Troy. He addressed additional elements for the applicant to consider and questions for the Planning Commission to consider, as identified in his report dated December 29, 2020. Mr. Carlisle reported the applicant is seeking flexibility in phases, uses and design features.

There was discussion on:

- Water feature; location, vocal point, community attraction.
- Residential key component; multi-family, live/work.
- Density and massing of project; building height.
- Preservation of existing green space.
- Applicant request for flexibility as relates to market demand and City vision.
- Viability of office space and hotel in relation to existing office vacancy and number of hotels currently in City.
- Outdoor activities and attractions to engage residents and community; walkability, vehicular-free plaza area.
- Destination point for family and community gatherings.
- Parking; expand parking structure, reduce surface parking, charging stations for electric vehicles.
- Limited available land in City for development of this size.
- Potential to attract large office headquarters.
- Affirmation of worldwide renown architectural firm Gensler.

Mr. Beck addressed greenspace as relates to existing tree quality and species, parking options, water feature, stormwater detention and intent to be flexible based on potential future uses and evolution of project.

Mr. Antone addressed a residential component, density, potential to attract large office headquarters and flexibility in development long-term.

PLANNED UNIT DEVELOPMENT

5. PLANNED UNIT DEVELOPMENT (File Number PUD 2020-0018) – Proposed Concept Development Plan (CDP) for Long Lake and Crooks Masterplan Development, Northwest Corner of Long Lake and Crooks, Section 8, Currently Zoned O (Office) District

Mr. Savidant explained the approval process of a Planned Unit Development (PUD) application. A brief question and answer session followed.

Present were Anthony Antone and Chris Kojaian of Kojaian Properties and project architect Chris Beck of Gensler.

Mr. Antone gave a brief introduction of Kojaian Properties and noted some of their prominent projects in Troy. Mr. Antone referenced the proposed development as the gateway to North Troy. He stated the revised concept plan before the Board this evening incorporates the preservation of natural features identified by the Department of Environment, Great Lakes and Energy (EGLE). He noted the wetlands are regulated and must be preserved and remain untouched.

Mr. Antone addressed how the development team is using the site's natural features as its focal point. He said they would like the Board's feedback on the revised concept plan prior to their submission of a formal application. Mr. Antone said the development team believes it has incorporated most of the items discussed at the January 12, 2021 Planning Commission meeting.

There was lengthy dialogue among Board members and the applicant. Board members shared their personal visions of the proposed project.

Board comments related to:

- Create a destination point to attract people from within the complex and throughout the City.
- Integrate a plaza, pedestrian path, promenade, village-like characteristics.
- Reduce surface parking.
- Provide more walkability.
- Centrally relocate parking deck.
- Reconfigure placement of buildings to connect to public amenity space.
- Expand and centrally relocate public amenity space.
- Be bold and creative with expanse of property.
- Provide a visual illustration of project, such as a three-dimensional model.

Some members expressed the revised concept plan offers no significant changes from the concept plan presented in January 2021.

Mr. Antone addressed the "block" conceptual plan and detailed their vision of a live/work/play development. He said the development team has had conversations with high-end, luxury developers for all components of the project; residential, restaurant and retail, anchor hotel and anchor office headquarters. He addressed how the project is market-driven and site configurations must be effectual for various clients.

Mr. Antone said building heights would be:

- Office professional building, up to 10 stories.
- Centrally located building, 6 to 8 stories.
- Residential, 6 to 7 stories.
- Hotel, up to 5 or 6 stories.
- Restaurant/retail, up to 2 stories.
- Parking deck, 10 levels.

Mr. Antone thanked the Board for their comments and visions and said they look forward to coming back in front of the Board.

PLANNED UNIT DEVELOPMENT

PUBLIC HEARING – PLANNED UNIT DEVELOPMENT (File Number PUD 2020-0018)
 Proposed Concept Development Plan for Long Lake and Crooks Masterplan Development, Northwest Corner of Long Lake and Crooks, Section 8, Currently Zoned O (Office) Zoning District

Mr. Carlisle said the Planned Unit Development (PUD) application before the Board this evening is a formal submittal. He said the Planning Commission discussed two draft concept plans presented by the applicant at their January 12, 2021 and February 8, 2022 meetings.

Mr. Carlisle explained the three-step PUD application process and addressed the intent of a PUD application. He addressed highlights of the concept plan, proposed mix of uses, the changes since last reviewed, the four separate development areas proposed and associated amenities within those areas. Mr. Carlisle reviewed the applicant's proposed development parameters, relating to maximum square footage, minimum and maximum number of floors, minimum and maximum building height, and dimensional setbacks.

Mr. Carlisle said the applicant seeks flexibility to build any development area in any sequence, with one restriction that development area 4 (hotel/residential) and retail/restaurant pads can be built as part of any phase except they cannot be the first development built on site. He said the applicant seeks flexibility of all permitted and special uses in Office Mixed (OM), Office (O), or General Business (GB) zoning districts.

In summary, Mr. Carlisle asked the Board to consider public comments at the Public Hearing, and as part of their deliberation, to consider 1) the proposed development guidelines relating to building height and setbacks; 2) the proposed permitted and special uses; 3) if the PUD Standards in Section 11.03 of the Zoning Ordinance are met; and 4) if the proposed benefits are commensurate with the requested relief/development flexibility.

Mr. Savidant clarified a modification/correction to the development guidelines proposed by the applicant. Development area 1 (hotel/residential) should read 350,000 square feet, not 105,000 square feet.

Discussion among administration and Planning Commission:

- Flexibility in terms of what gets built, timing and location as proposed by applicant.
- Significance in determining appropriate uses and building heights.
- Gateway to North Troy and wayfinding signage.
- PUD Development Agreement.
 - Ms. Dufrane stated agreement is essentially standard agreement language except for unique aspects relating to development phases and development areas.
- Urban Residential (UR) zoning district; high density residential district in line with Master Plan.
- Preservation of State-regulated wetlands.
- Tree survey and mitigation; determined at each development phase, must meet site plan requirements.
- Green space/open space must be generally consistent with approved concept plan; what, where, size, whether for public use determined at each development phase and must meet site plan requirements.
- Housing types must be generally consistent with approved concept plan and must meet site plan requirements.

Anthony Antone of Kojoian introduced the project team present in the audience; Project Architect Chris Beck of Gensler, Attorney Tyler Tennent of Dawda Mann PLC, Environmental Engineer Leslie Accardo of PEA, and CEO of Hunter Pasteur Homes Randy Wertheimer.

Mr. Antone stated the residential component (development area 1) would be the first phase of development. He said the proposed uses for the overall project are residential, office and retail and are defined in the PUD Development Agreement. Mr. Antone said the development configuration is based on the market and potential clients. He noted configuration might change during the development process. Mr. Antone said the Stateregulated wetlands (1.9 acres) will remain as is. He addressed proposed development areas, phases and amenities. He indicated adjacent businesses were notified of the proposed project.

Mr. Rahman asked if the center building could be moved to the street and the parking structure moved to an internal location. At the request of Mr. Rahman, an image was displayed on the wall monitor depicting a large green courtyard surrounded by building(s).

Mr. Antone stated moving the center building to the street would not be sensible from an architectural or marketing standpoint.

Mr. Wertheimer said placing residential the furthest point from a heavily trafficked and noisy street is essential for success. He noted the sequence of development phases would be residential, amenities, office, restaurant and hotel. Mr. Wertheimer said development area 3 would be flexible on what the market determines.

Ms. Perakis expressed dissatisfaction in what she views as no changes in the concept plan since last presented to the Board even though the Board offered specific suggestions. She said there is nothing unique about the proposed *Gateway to North Troy* development. Ms. Perakis recommended suggestions for the creation of a destination for residents to live, work and play: 1) phase 1 should be a pedestrian boulevard along with paths and natural features; 2) the parking structure with retail on the first floor should be the anchor building in the center of the PUD; 3) the pedestrian boulevard should run parallel to Long Lake with retail along Long Lake that fronts the pedestrian boulevard; 4) access to the pedestrian boulevard should be off Crooks and Corporate Drive. At the request of Ms. Perakis, images were displayed on the wall monitor that depicted existing parking structures located in Ann Arbor, East Lansing and Detroit. Ms. Perakis referenced page 192 of the Master Plan, "Strategy: Create a community gathering space" and addressed the application's relationship to the PUD Standards.

Mr. Wertheimer stated details of the concept plan would come forth with each phase and at site plan submittal. He said the team's focus is on the first step of approval of a concept plan and they look forward to providing specific details with individual site plan submittals. Mr. Wertheimer said the project team is asking for a consensus on the uses, building sizes and building heights at this time. He stated that 25% of the site is open green space. Mr. Wertheimer apologized if he is misinterpreting the PUD process and addressed the importance of landscape and architectural designs that would be presented at site plan review and approval.

Ms. Malalahalli said the concept plan appears industrial, like four rectangular Lego blocks with too much parking. She encouraged a concept plan that would *wow* the Board, to incorporate a promenade or plaza area, a connected pathway and a community stage to engage a public destination.

Mr. Tagle said it appears the development team has not *sold* the Planning Commission on its concept plan and encouraged the team to share a presentation inclusive of ideas, graphics and words that would get the Board excited about the project. He asked the applicant to address the product the team envisions for development area 1.

Mr. Wertheimer said the product would be a five to seven story luxury residential building similar to what one sees in Birmingham, West Bloomfield and Corktown. He identified some amenities as a rooftop pool, an expansive workout facility, a work-from-home office setting, state-of-the-art technology and concierge services.

Mr. Krent referenced a proposed development project at the former K-Mart Headquarters that *wowed* the Planning Commission with its pavilion style development.

Chair Lambert suggested a connected hub for public transportation.

Mr. Antone addressed the change in the configuration of office buildings since the pandemic. He said offices are becoming highly amenitized to bring employees back to what was the standard office building. Mr. Antone noted proposed parking is less than two acres of the overall project.

PUBLIC HEARING OPENED

- Laury Shah, 1448 Brentwood Drive, Troy; addressed personal visions of developing property; native grasses, lush vegetation, botanical garden, minimum height of buildings, noise buffer.
- Wei Cao, 6816 Vernmoor, Troy; shared concurrence with Planning Commission comments on the parking structure and amenities, encouraged a gathering destination and pedestrian boulevard.

PUBLIC HEARING CLOSED

Chair Lambert announced the Planning Department received 10 to 15 email messages, copies of which were placed in front of Board members prior to tonight's meeting. Chair Lambert shared the messages expressed concerns with the destruction of green space and building heights.

Mr. Hutson said he would like to see the PUD Development Agreement be modified to include: 1) reduce the three buildings to a maximum height of eight (8) stories; 2) that no development phase should commence until the first development phase is complete; and 3) that the permitted and special uses are specifically identified. Mr. Hutson said he agrees with comments expressed by Ms. Perakis.

Ms. Dufrane stated the Planning Commission as a recommending body to City Council is responsible to forward either an affirmative or negative recommendation to City Council. In response to the Board's query if it is appropriate to postpone the item, she responded it would be reasonable to postpone the application one time should the Board desire.

Resolution # PC-2022-08-045

Moved by: Lambert Support by: Buechner

RESOLVED, To postpone action on the PUD application to give the applicant an opportunity to consider input from the Commissioners on the overall concept plan and to give the Board a feel for what the entire project will look like.

Discussion on the motion on the floor.

Ms. Perakis addressed specific language she would like to incorporate in the Resolution as relates to parking structure location, pedestrian pathway, promenade/boulevard, relationship to Master Plan vision, uniqueness and creation of a destination point.

Mr. Antone and Mr. Wertheimer asked the Board to realistically consider the traffic impact and accessibility to the site as relates to the placement of the buildings.

Mr. Faison suggested design specifics should not be attached to the Resolution.

Mr. Hutson suggested to postpone the item with no specificity attached to the Resolution.

Ms. Dufrane said the attorney's office would collaborate with the applicant's attorney to tighten up the language on permitted and special uses.

Vote on the motion on the floor.

Yes: All present (9)

MOTION CARRIED

Ms. Perakis addressed existing traffic problems in the area and cautioned the applicant to not come back with an excuse that the traffic impact would prevent a pedestrian boulevard.

PLANNED UNIT DEVELOPMENT

5. <u>PLANNED UNIT DEVELOPMENT (File Number PUD 2020-0018)</u> – Revised Concept Development Plan for Long Lake and Crooks Masterplan Development, Northwest Corner of Long Lake and Crooks, Section 8, Currently Zoned O (Office) District

Mr. Carlisle gave a brief background of the proposed Planned Unit Development (PUD) application and identified some of the changes since last reviewed at the August 9, 2022 Planning Commission Regular meeting.

- Reconfigured residential building at northwest corner, moved building parallel to Corporate Drive.
- Reconfigured hotel/restaurant building at southwest corner, moved building parallel to Corporate Drive, located parking in rear.
- Added another retail/restaurant building, moved retail/restaurant buildings to front on Long Lake, parking in rear.
- Reconfigured internal pedestrian grid system and outdoor seating plaza area between two main retail/restaurant buildings on Long Lake.
- Significant addition to the central gathering space, dedicated green space and functional usable open space.
- Added green "street" and "boulevard" that bisects site north/south, east/west.
- Added pedestrian amenities and grid system to connect with pedestrian amenities.
- Reduced size of sculpture garden located next to wetland, added parking.
- Expanded open space and natural features area on the north end of site.
- Added small retail zone on ground level of parking deck.

Anthony Antone of Kojoian introduced project team members in the audience; Randy Wertheimer of Hunter Pasteur Homes, Chris Beck of Gensler, Chris Kojoian of Kojoian and Tyler Tennent of Dawda Mann PLC.

Mr. Antone said the team wants to make sure they are on the right track and is asking for the Board's feedback again before coming forward with the Concept Development Plan. He said "The Great Lawn" area would be an all-season gathering place with diverse amenities, identifying at this time an ice-skating rink, pickleball courts and bocce ball.

Board members complimented the team on the plan revisions and expressed overall satisfaction of the plan.

Some items Board members asked the project team to consider:

- Prepare a brochure/pamphlet to illustrate the community gathering space.
- Food trucks; parking, competition with on-site restaurants.
- Seasonal gathering space; functionality.
- Add gardens, play structure.
- Location of pickleball courts and outdoor exercise stations.
- Parking.
 - o Applicant advised boulevard offers on-street parallel parking.
 - o Parking deck and office tower; levels of parking.

- Shared parking.
- o Review of parking at each development phase.
- Retail/restaurant buildings; facilitation of loading/unloading and waste management.
- Provide a 'grand' and 'eye-catching' entrance to development.
- Hub for public transportation.

Mr. Savidant reviewed the PUD approval process.

Ms. Dufrane stated the elements of the PUD agreement encompass details relating to development phasing and open space.

Chair Lambert opened the floor for public comment.

Wei Cao, 6816 Vernmoor; addressed retail/restaurant portion of development, suggested smaller storefront retail/restaurants.

Chair Lambert closed the floor for public comment.

Mr. Antone said the market would drive tenancy of the project. He said a combination of larger and smaller retail/restaurant store fronts would be appealing.

PLANNED UNIT DEVELOPMENT

- 5. <u>PLANNED UNIT DEVELOPMENT (File Number PUD2020-0018)</u> Proposed Concept Development Plan for Long Lake and Crooks Masterplan Development, Northwest corner of Long Lake and Crooks, Section 8, Currently Zoned O Office
 - Mr. Savidant explained the Planned Unit Development (PUD) three-step approval process. He briefly addressed discussion items during review of the application in previous meetings.
 - Mr. Savidant addressed revisions to the application since its last review, proposed amenities in Zones A, B and C, buildout of development phases and displayed several generic renderings that capture the flavor of the application.

Mr. Savidant said the applicant noted benefits of the application as follows:

- Horizontal mixed-use development consistent with the Master Plan.
- Development of an undeveloped and prominent site.
- Outdoor plazas.
- Outdoor dining areas.
- Pedestrian circulation paths and activities around the site.
- Public art.
- Wetland preservation.

Mr. Savidant asked the Planning Commission to consider the following in its deliberation:

- The proposed development guidelines (height/setbacks, etc.)
- The proposed allowable and special uses.
- The proposed phasing.
- If proposed benefits are commensurate with the requested relief/development flexibility.
- If the PUD Standards have been met.

Discussion among administration and Planning Commission:

- Public transportation drop-off area.
- Height of Flagstar bank; 14 stories.
- Intent of Urban Residential zoning district.
- Sustainability, renewable energy, environmental impact.
- Traffic study recommendations, responsibility to apply.
- Potential uses.

Anthony Antone of Kojaian was present. Project members in the audience were Randy Wertheimer of Hunter Pasteur Homes, Chris Beck of Gensler and Tyler Tennent of Dawda Mann PLC.

Mr. Antone addressed the revisions to the application and amenities and said they are committed to the uses as presented this evening in their presentation.

There was discussion, some comments related to:

- Public transportation drop-off; possible location south side of Crooks service drive; applicant working with SMART.
- Amenities open to public; more details with site plan application.
- Development phases; 1st phase multi-family residential, 2nd phase amenities.
- Public art; one-time installation.
- Sustainability, energy conservation, charging stations.
- Natural wetland area; seating around periphery; applicant working with Environment, Great Lakes & Energy (EGLE) on other possible functions.
- Great Lawn Area; applicant working with outside source to promote various activities.
- Correction to Site Plan to show only one entrance on Long Lake.
- Food truck staging; on promenade, malleable locations.
- Traffic improvements; applicant to work with Engineering and County.
- Green space; 76% open space.
- Office space (Area 2); objective to remain as office use until tenant is secured.
- Goal to create a live, play, work environment.
- Public comment received expressing concern with destruction of trees, office space vacancies and building height.
- Applicant encouraged to include renderings from various perspectives of surrounding areas at City Council presentation.
- Project timetable.
- Recycling resources.

Chair Lambert opened the floor for public comment. Acknowledging there was no one present who wished to speak, Chair Lambert closed the floor for public comment.

There was discussion on the PUD Agreement, some comments related to:

- Limitation on uses; reference to email communication from Attorney Tyler Tennent confirming commitment of uses identified in application.
- Site Plan to show only one entrance on Long Lake.
- Traffic circulation as relates to recommendations of traffic consultants and County regulations.
- Project timetable; up to 20 years to complete construction.
- Development phases.

Resolution # PC-2023-01-008

Moved by: Krent Seconded by: Buechner

WHEREAS, The applicant Gensler submitted a Conceptual Development Plan application for a Planned Unit Development, located on the northwest corner of Long Lake and Crooks, in Section 8, approximately 24.88 acres in area; and

WHEREAS, The Concept Development Plan proposes multiple phases for a mixed-use development including office, residential, lodging, restaurant, retail and open space with public amenities; and

WHEREAS, The Concept Development Plan will be implemented through submittal of Preliminary Development Plans for each phase of development; and

WHEREAS, Each Preliminary Development Plan will require a Planning Commission public hearing and City Council public hearing prior to approval; and

WHEREAS, The proposed Concept Development Plan meets the Standards for Approval set forth in Section 11.03.

THEREFORE BE IT RESOLVED, That the Planning Commission recommends to City Council that Concept Development Plan Approval for the proposed Long Lake and Crooks Masterplan Development be granted, subject to the following:

1. The concept plan indicates extensive landscape and trees, and the Planning Commission approves that type of concept.

Yes: All present (9)

MOTION CARRIED

From: RICHARD KILLEWALD

To: Planning

Subject: Long Lake/Crooks Development

Date: Sunday, March 7, 2021 10:29:27 PM

Planning Commissioners,

My name is Rick Killewald. I am a 30+ year resident of north Troy. I am writing you with a concern after reading the Troy Times article regarding the proposed development at Long lake and Crooks roads.

North Troy has an enormous amount of building vacancies along the north Crooks road areas. It also has an unsightly demolition site, the old Northfield Hilton vacant land, to add to the glut of "for lease" signs; along with other newly constructed buildings seeking tenants. Have you drove by this area, (Crooks Road from Long Lake to Square Lake), lately? The vacant/for lease signs are staggering. Additionally, behind the newly constructed Panera building, Crooks and I75 exit, sit two large vacant office buildings. And now you want to put another hotel/office/retail development on the corner of Long Lake and Crooks. Are you serious? How many more vacant buildings do you want in this area? And a hotel? In this area of Troy? Last I checked, Double Tree Hotel is never over booked. Don't you have enough hotels at Big Beaver that you feel compelled to stick another one at the proposed sight? Why? Is the demand really there? Don't think so.

Planning Commissioners Jerry Rauch and Michael Hutson said it right in the Troy Times article. They are concerned about the <u>glut</u> of vacancies in the area. YES!! Will you other commissioners pay attention! Look for yourselves! We north Troy residents have to look at these "eye-sores" everyday.

Furthermore, is there a need to destroy this wooded parcel of land on the cited corner. Is it necessary to destroy every wooded parcel of land in Troy for more concrete vacant buildings? You are responsible to the City of Troy residents to do the right thing even if it means saying NO at this time to a developer.

Please recognize your responsibility to the city, and reconsider this proposed development!

Thank you,

Rick

From: <u>lintroy2015@gmail.com</u>

To: Planning

Subject: Long Lake /Crooks Development

Date: Tuesday, August 9, 2022 10:22:34 PM

CAUTION: This email did not originate from within the City of Troy. Do not click links or open attachments unless you recognize the sender and know the content is safe.

After streaming tonight's meeting, I want to express my thanks and appreciation to the Planning Board, and especially to Ms Malalahalli & Ms Perakis. And to all who realized the developers did not hear the board. Please continue to protect Troy's last oasis from short sighted development.

Why would a developer think Troy residents want another boring, overcrowded Big Beaver/Crooks corner? Or a KMart headquarters corner? Troy's office parking lots still show lack of work force returning.

Are ten-story buildings necessary in that development?

Troy needs green spaces. It's difficult to maintain trees and plants in areas covered in concrete and asphalt. It's great that so many new trees were planted along Northfield Parkway this year.

The board's job is not easy. Thank you for the hours spent at meetings and in preparations. Each board member's words and actions leave their mark on our city.

Thank you. Ellen Schmidt 1745 Brentwood Dr

Sent from my iPhone

From: <u>steveandlisabarnett@yahoo.com</u>

To: Planning

Subject: The Long Lake & Crooks PUD: Planned Unit Developments-PUD-030

Date: Friday, August 5, 2022 8:58:20 AM

CAUTION: This email did not originate from within the City of Troy. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Dear Board members.

RE: The Long Lake & Crooks PUD: Planned Unit Developments-PUD-030

I sincerely hope that you will not consider this property for commercial development. We have to preserve the remaining green spaces in this beautiful City of Troy. This area is a natural habitat for our wildlife and greatly enhances our neighborhood with its natural beauty. It is also a very popular area to walk and exercise. My wife and I love to walk our dog past the woods, enjoying nature.

We feel that there is already an abundance of newer vacant commercial properties in Troy, why do we need to build more? I urge you to please preserve this beautiful and natural habitat that our neighborhood loves so much and enjoys.

Sincerely,

Stephen Barnett 4344 Bender Court Troy, MI 48098 248-641-8098 From: <u>crystal geiser</u>
To: <u>Planning</u>

Subject: Planning commission meeting 8.9.22 **Date:** Monday, August 8, 2022 3:53:55 PM

CAUTION: This email did not originate from within the City of Troy. Do not click links or open attachments unless you recognize the sender and know the content is safe.

To Whom It May Concern,

I am a lifelong resident of Troy and have heard about the request that has been made to rezone a parcel of land at Long Lake and Crooks to allow for more development and a 10 story building. I would like my voice to be heard in this matter that I am firmly against allowing this. Our city is currently full of unused office spaces with "for lease" signs everywhere. Creating more space for this purpose would be irresponsible. Additionally, the idea of overwhelming our city with a 10 story building would not do anything more than create an eye-sore. Troy has been a city where everyone wants to live. We have the perfect combination of enough businesses to be convenient and offer jobs while still having green spaces and a feeling of calm. Adding unnecessary huge buildings sets the precedent for others to start wanting to do that as well and turn our safe, family city into nothing but unused sky-scrapers. This piece of land was zoned specifically and purchased knowing what it was zoned for. There is no reason to change it and negatively impact all the residents of Troy to appease a big business who has no vested interest in the wellbeing of the residents here.

Thank you for your consideration in this matter.

Crystal Geiser 5207 Cardinal Dr. Troy, MI From: <u>Karen Liska</u>
To: <u>Planning</u>

Subject: Long Lake & Crooks PUD

Date: Friday, August 5, 2022 12:36:00 PM

CAUTION: This email did not originate from within the City of Troy. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Dear Members of the Planning Commission:

My husband and I just purchased a new home in Troy in July at Long Lake and Rochester Roads. We are looking forward to moving into our new neighborhood and watching our children grow and thrive in our new community. One of the draws for us to the area was the abundance of nature, both in the specific segments set aside (such as the Stage Nature Center) and in the naturally-occuring wooded landscapes around the city. Therefore, it was with great concern that I learned about the proposed re-zoning of one of the few remaining large parcels of wooded land. Specifically the Long Lake & Crooks PUD, which seeks re-zoning from "O" to "PUD" along with variances of development use, maximum height and gross square footage. I urge the Commission to consider the safety, health and welfare risks inherent to this request.

While the current zoning is "O" and we understand office development in that area could also impact the wildlife and health of the area, the demands on the land placed by the proposed development do far more to tax the natural resources and impact the experience of residents. There are also concerns about traffic safety and density, and of course increased carbon emissions and health risks, from such a large proposed development. The proposed shifts (such as allowing 10 story buildings on that land) would also alter the character of that neighborhood away from the residential character we specifically sought out and that other neighbors enjoy for their families. The domino effects of granting this proposal also matter: will other building owners bordering residential areas seek to increase their building sizes?

We chose Troy for its nature, and for a place where we and our children can bike in residential neighborhoods and explore with freedom. We enjoy visiting the businesses on Big Beaver Road, and are grateful for the contributions of industry and government buildings in other sections of the city designed for those uses. To take a parcel that is 80% wooded and allow a development that is wholly out of character for the neighborhood in which it sits will have an outsize impact on the experience of living in the city from the perspectives of the environment, safety, and resident welfare. I would urge the Commission to reach a decision in this matter that preserves the natural resources and character of the neighborhood. There are many examples around the world of developments that allow nature and industrial progress and residential use to co-exist, and I am certain a city like Troy that is known for its innovation and ingenuity as much as it is known as a place where families can grow and thrive can facilitate such a plan. As Tony Antone said himself in an interview with Crain's Detroit Business, https://www.crainsdetroit.com/voices-kirk-pinho/real-estate-insider-weighing-fategateway-north-troy, "there's just so few parcels left like this." If this *is* to become the "Gateway to North Troy," let's make sure it's a gateway that residents want to stay within and not exit from.

Thank you,

Karen Liska

From: Brent Savidant
To: Jackie Ferencz

Subject: FW: Please Preserve Our Green Spaces!

Date: Monday, March 1, 2021 4:13:06 PM

Please save in Public Input folder in Long Lake PUD folder.

----Original Message-----

From: Jackie Ferencz On Behalf Of Planning Sent: Monday, March 1, 2021 8:54 AM To: Brent Savidant <SavidantB@troymi.gov> Subject: FW: Please Preserve Our Green Spaces!

Jackie Ferencz

Administrative Assistant | City of Troy Planning Dept

O: 248.524.3364

----Original Message-----

From: C Angell <charangell1@gmail.com> Sent: Saturday, February 27, 2021 5:36 PM To: Planning <planning@troymi.gov> Subject: Please Preserve Our Green Spaces!

Hello,

Now, I see in the Troy Times that the proposed development on Crooks and Long Lake, which is in the area where I live, is being proposed as a "maximum flexibility" site.

I no longer see the Troy "City of Tree" signs - I suppose because we no longer are. Which is very sad.

We are losing all our green spaces, which made Troy a beautiful city, reduced noise and pollution.

I agree that we DO NOT NEED MORE BUILDINGS / PLAZA'S in our city.

We need to ensure that IF a site is developed, that developers set aside a green space and leave an area of trees in tact - otherwise, what will happen is Troy will have more ugly office buildings and plaza's with huge For Lease signs, that seem a permanent fixture, on the property. A fountain is not on par with green spaces / trees.

Please take a stand on protecting our green spaces and help protect our environment and beautiful city.

Charlene Angell 6660 Tree Knoll Dr Troy, MI 48098 From: <u>Lisa</u>
To: <u>Planning</u>

Subject: Long lake and Crooks rezoning **Date:** Friday, August 5, 2022 9:05:43 AM

CAUTION: This email did not originate from within the City of Troy. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Attn: Planning Commission

Re: Long lake and Crooks rezoning

I am a Troy resident and like to voice my opinion on this matter.

We already have so much vacant office space available in Troy. There is not enough demand for this project.

Also, as a resident of this near by proposed project, this is another example of the greenery being taken away. We purchased our home for this reason. We thought Troy would be thoughtful in planning.

Low rise is in place and it should stay that way.

Traffic is already going to be an issue with the Wellington Apartments a mile away.

It is understandable if there is a need. But with so many existing vacancies, it doesn't make sense to disturb 28 acres.

Please do not rezone this land!

Lisa Paglino 248 225-1442 1061 Redding Drive Troy, MI 48098 Date: August 4, 2022

To: Planning Department

From: Laury Shah

1448 Brentwood Drive

Troy, MI 48098

Re: Long Lake & Crooks PUD- PUD-030

Dear Planning Department and City Council Members,

As a resident in Northfield Hills, my home sits on Northfield Parkway. I am very concerned about the maximum height variance the applicant seeks in this design proposal. The Flagstar Bank building that is on Corporate Drive, directly across from the 24- acre parcel in question, is a low-rise 4 story building. This building is hidden from my residential view due to trees that have grown tall over the years. So, I do not feel that the Flagstar bank is oppressive to me from my residence. If you travel west bound on Long Lake Road from Adams, you cannot visually see the top of the Flagstar bank buildings (starting at 1450 W Long Lake Rd) upon approach. Approaching west on Long Lake to Corporate Drive, I know that seeing tops of green trees and blue sky and clouds is so much more inviting to me in comparison to the oppressive feeling I would feel possibly with a 10-story building. Most of the surroundings from the parcel are residential neighborhoods. Therefore, I think the variance should not be approved and that the number of stories should not exceed 6 stories.

I respectfully want to ask, was the PEA tree reported impartially completed? I know PEA was hired by Kojaian and are working with the city of Troy with respect to allowable tree species, but I really would like to see more trees saved to cover the circumference of the parcel. I would request a thicker density of trees in the circumference of the area. I would like the tops of the trees to be higher than the buildings. This would provide a more peaceful and green space visually.

I understand the newer concept of mixed-use development with the possibility of having a positive effect on our social lives and better usage of space, but with this parcel's very close proximity to 1-75, it is going to be loud in that parcel. Especially, with the added proximity directly on a busy intersection (Crooks and Long Lake). From my home, just about 3000 (south) to 4000 feet (west) from the I-75 freeway, it can be very loud and it has gotten louder surprisingly from the newer "sound barriers" built along I-75.

Also, if we allow the variance of maximum building height, will the other many buildings on Corporate Drive and New King Street (currently very many listed for lease with open parking lots) be removed and rezoned for maximum height as well? I would not be in favor of that.

Lastly, I would like to request that a thorough written report of all valuable native plants be listed for public viewing and that the developer allows access to a responsible party to carefully retrieve these

native plants from this parcel before building commences. I know for a fact that a valuable native plant, Joe Pye weed (a valuable pollinator plant) and wild bergamot are on this parcel.

Thank you, Laury Shah

From: <u>Deanna Vetrone</u>
To: <u>Planning</u>

Subject: Parcel at Long Lake and Crooks **Date:** Priday, August 5, 2022 12:48:38 PM

CAUTION: This email did not originate from within the City of Troy. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Dear Planning Commission Members,

I am writing to implore you to do everything you can to save the 24 wooded acres at the corner of Long Lake and Crooks. I still do not understand how land can be clear cut when scientist after scientist continues to warn us about the loss of trees and natural habitats and global warming. Troy should have established a land preserve years ago so this land could have been purchased and preserved. We do not need more offices in a city where offices lay empty and the future of office work is more remote than in person. I moved to Troy when I was a little girl in 1977 and the loss of farms and woods has been devastating to the quality of life in this city. Those woods support so many animals and plants and help to make living in the city healthier and more tolerable. Please, if you cannot stop the development, then please only allow minimal development with the largest amount of preserved trees. Sincerely,

Deanna Vetrone 5798 Faircastle Drive Troy 48098 From: Amanda Winters
To: Planning

Subject: Long lake and crooks

Date: Tuesday, August 9, 2022 10:19:53 PM

CAUTION: This email did not originate from within the City of Troy. Do not click links or open attachments unless you recognize the sender and know the content is safe.

This parcel of land needs to be left as a green space. Troy needs more green space. Not condos, not more business, not more housing! Just stop building out every last inch of Troy!

Amanda Winters Troy resident for 42 years. 2971 Quail Run Drive Troy, Mi 48098

Sent from my iPhone

PARCEL 88-20-08-477-001

Salim Huerta Jr

From:

Monika <moonbirdm@gmail.com>

Sent: To: Sunday, August 21, 2022 4:52 PM Planning

Subject:

PUD2020-0018 Northwest corner of Long Lake and Crooks

CAUTION: This email did not originate from within the City of Troy. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Dear Commissioners,

This is regarding tearing down the little bit of forest that Troy has left to offer. There are so many office buildings that glut this area already. Why add more buildings that will end up being mostly empty? There have been low vacancy rates even prior to COVID-19 in office buildings. I've worked in the area for 15 years and have seen the empty buildings and parking lots over those 15 years.

Tearing down trees that provide health benefits to Troy residents appears uncaring.

"Spending time around trees and looking at trees reduces stress, lowers blood pressure and improves mood. Numerous studies show that both exercising in forests and simply sitting looking at trees reduce blood pressure as well as the stress-related hormones cortisol and adrenaline."

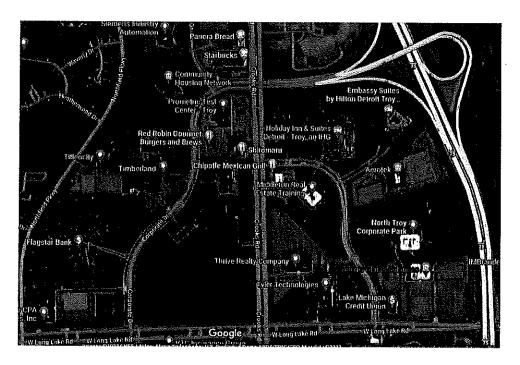
Immerse Yourself in a Forest for Better Health - NYS Dept. of Environmental Conservation

Building more parking lots and even adding a parking structure is disturbing. Just take a drive on Corporate Drive and look at all the empty parking lots and all the For Lease signs that clutter this road. Adding non-permeable parking lots and more concrete to the area will exacerbate the issues with the storm water system. These trees and shrubs manage rainwater runoff.

"Trees are increasingly recognized for their importance in managing runoff. Their leaf canopies help reduce erosion caused by falling rain. They also provide surface area where rain water lands and evaporates. Roots take up water and help create conditions in the soil that promote infiltration."

Soak Up the Rain: Trees Help Reduce Runoff | US EPA

I'm including a snippet of the area which shows how much this area has been over developed already and hasn't met expectations:



Thank you for your time. Monika Sipe

Additional benefits of having trees in a city:

Building greener cities: nine benefits of urban trees (fao.org)

Urban trees can help to mitigate some of the negative impacts and social consequences of urbanization, and thus make cities more resilient to these changes. Here are nine ways in which urban trees and forests contribute to making cities socio-economically and environmentally more sustainable:

- Trees can contribute to the increase of local food and nutrition security, providing food such as
 fruits, nuts and leaves for both human consumption and fodder. Their wood, in turn, can be used for
 cooking and heating.
- 2. Trees play an important role in **increasing urban biodiversity**, providing plants and animals with a favourable habitat, food and protection.
- 3. A mature tree can absorb up to 150 kg of CO₂ per year. As a result, trees play an important role in **climate change mitigation**. Especially in cities with high levels of pollution, trees can improve air quality, making cities healthier places to live in.
- 4. Strategic placement of trees in cities can help to **cool the air** between 2 and 8 degrees Celsius, thus reducing the urban "heat island" effect, and helping urban communities to adapt to the effects of climate change.
- 5. Large trees are excellent **filters for urban pollutants** and fine particulates. They absorb pollutant gases (such as carbon monoxide, nitrogen oxides, ozone and sulfer oxides) and filter fine particulates such as dust, dirt or smoke out of the air by trapping them on leaves and bark.
- 6. Research shows that living in close proximity of urban green spaces and having access to them, can **improve physical and mental health**, for example by decreasing high blood pressure and stress. This, in turn, contributes to the well-being of urban communities.
- 7. Mature trees **regulate water flow** and play a key role in preventing floods and reducing the risk of natural disasters. A mature evergreen tree, for instance, can intercept more than 15 000 liters of water per year.

- 8. Trees also help to **reduce carbon emissions** by helping to conserve energy. For example, the correct placement of trees around buildings can reduce the need for air conditioning by 30 percent, and reduce winter heating bills by 20-50 percent.
- 9. Planning urban landscapes with trees can **increase property value**, by up to 20 percent, and attract tourism and business.

From: Cindy D

To: Planning

Subject: PUD Project

Date: Tuesday, January 12, 2021 8:27:15 PM

Good Evening,

I love what Ms. Perakis proposed. I remember telling you back in 2016 that I like being able to walk to Starbucks from Northfield Pkwy. Our kids use to ride their bikes to get frozen yogurt. Make it a place to go for the already occupied offices and for the local neighborhoods.

When I saw their proposal I hated it. My neighbor disliked it. This is an opportunity to create something special and lasting.

Thank you,

Cindy Desmon Troy Resident

CITY OF TROY AN ORDINANCE TO AMEND CHAPTER 39 OF THE CODE OF THE CITY OF TROY

The City of Troy ordains:

Section 1. Short Title

This Ordinance shall be known and may be cited as the 483rd amendment to the Zoning District Map of the Code of the City of Troy.

Section 2. Amendment

Section 4.02 of Chapter 39 is hereby amended to permit the zoning map of said code to be, and the same is hereby amended to delineate the subject parcel as PUD (Planned Unit Development), specifically parcel 88-20-08-477-001.

The subject property is located on the southwest corner of Long Lake Road and Crooks Road, in section 8, within the O (Office) District, being approximately 24.88 acres in size.

Section 3. Repeal

All ordinances or parts of ordinances in conflict herewith are hereby repealed only to the extent necessary to give this ordinance full force and effect.

Section 4. Savings

All proceedings pending, and all rights and liabilities existing, acquired or incurred, at the time this Ordinance takes effect, are hereby saved. Such proceedings may be consummated under and according to the ordinance in force at the time such proceedings were commenced. This ordinance shall not be construed to alter, affect, or abate any pending prosecution, or prevent prosecution hereafter instituted under any ordinance specifically or impliedly repealed or amended by this ordinance adopting this penal regulation, for offenses committed prior to the effective date of this ordinance; and new prosecutions may be instituted and all prosecutions pending at the effective date of this ordinance may be continued, for offenses committed prior to the effective date of this ordinance, under and in accordance with the provisions of any ordinance in force at the time of the commission of such offense.

Section 5. Severability Clause

Should any work, phrase, sentence, paragraph or section of this Ordinance be held invalid or unconstitutional, the remaining provision of this ordinance shall remain in full force and effect.

Section 6. Effective Date

This amendment to the Zoning Ordinance shall take effect seven (7) days after publication, which shall be published within 15 days of adoption, as required the Michigan Zoning Enabling Act (Act 110 of 2006).

This Ordinance is enacted by the Council of the City of Troy, Oakland County, Michigan, at a regular meeting of the City Council held at City Hall, 500 W. Big Beaver, Troy, Michigan, on Monday, the 13th day of March, 2023.

Ethan Baker, Mayor
M. Aileen Dickson, MMC, MiPMC II City Clerk

PUBLISHED: