

#### PLANNING COMMISSION MEETING AGENDA REGULAR MEETING

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

May 10, 2022 7:00 P.M. Council Chambers

- ROLL CALL
- 2. APPROVAL OF AGENDA
- 3. APPROVAL OF MINUTES April 26, 2022
- 4. PUBLIC COMMENT For Items Not on the Agenda

#### **PUBLIC HEARING**

 PUBLIC HEARING - PRELIMINARY SITE PLAN REVIEW (SP JPLN2021-0028) -Proposed Golden Villas One Family Residential Cluster, South side of Square Lake, West of Dequindre (PIN 88-20-12-200-031 & 88-20-12-200-035), Section 12, Currently Zoned R-1C (One Family Residential) District

#### PRELIMINARY SITE PLAN REVIEW

 PRELIMINARY SITE PLAN REVIEW (SP JPLN2022-0002) – Proposed Norton and Quill Site Condominium, Northwest corner of Norton Street and Quill Creek Drive (PIN 88-20-03-251-043 & 88-20-03-251-044), Section 3, Currently Zoned R-1B (One Family Residential) District.

#### OTHER ITEMS

- 7. PUBLIC COMMENTS For Items on the Agenda
- 8. PLANNING COMMISSION COMMENT
- ADJOURN

. **NOTICE:**People with disabilities needing accommodations for effective participation in this meeting should contact the City Clerk by e-mail at <a href="clerk@troymi.gov">clerk@troymi.gov</a> or by calling (248) 524-3317 at least two working days in advance of the meeting. An attempt will be made to make reasonable accommodations

Chair Lambert called the Regular meeting of the Troy City Planning Commission to order at 7:00 p.m. on April 26, 2022, 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.

#### 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-2022-04-023

Moved by: Buechner Support by: Krent

**RESOLVED**, To approve the Agenda as prepared.

Yes: All present (9)

#### **MOTION CARRIED**

#### 3. <u>APPROVAL OF MINUTES</u> – April 12, 2022

#### Resolution # PC-2022-04-024

Moved by: Tagle Support by: Perakis

**RESOLVED**, To approve the minutes of the April 12, 2022 Regular meeting as submitted.

Yes: All present (9)

#### **MOTION CARRIED**

4. <u>PUBLIC COMMENT</u> – For Items Not on the Agenda

There was no one present who wished to speak.

#### **PUBLIC HEARING**

 PUBLIC HEARING - PRELIMINARY SITE PLAN REVIEW (SP JPLN2021-0023) – Proposed Eckford Oaks One Family Residential Cluster, North side of Eckford, West of Rochester (PIN 88-20-15-251-026 and 88-20-15-251-017), Section 15, Currently Zoned R-1C (One Family Residential) District

Mr. Carlisle reviewed the background of the Preliminary Site Plan application for Eckford Oaks cluster development as relates to location, adjacent zoning, parcel size, access, and natural resources encumbered by wetlands, floodplain, floodway, tree cover and Houghton drain.

Mr. Carlisle addressed the parallel plan, comparing what could be developed by right under the R-1C residential zoning district. Mr. Carlisle addressed the intent of the cluster development option, noting the applicant would achieve five (5) additional units and 45% of open space would be preserved. He stated the tree preservation study/plan notes most trees are of good quality and no mitigation is required. Mr. Carlisle said the plan provides for a 10-foot-wide public pathway through the development to connect with the existing path that starts at Daisy Knight Dog Park on Livernois through to the Department of Public Works (DPW) site to the north. He addressed the applicant's request to waive the required setbacks for construction of decks along the northern property line abutting the DPW yard and the EP (Environmental Protection) zoned property. Mr. Carlisle said the applicant proposes to build ranch style homes and asked that the applicant indicate building materials. Mr. Carlisle reviewed the Cluster Standards as set forth in Section 10.04.1.

In summary, Mr. Carlisle said the Planning Commission shall determine if requirements are met to qualify for a cluster development option, if the required Cluster Standards have been met, and if the additional number of units is commensurate with open space being preserved. He asked the Planning Commission in its deliberation to consider the impact of grading upon the onsite wetlands and floodplains, the applicant's request to seek relief of setback requirements to construct decks and to address building materials with the applicant.

A brief discussion among Board members and the administration followed, some comments relating to:

- Parallel plan versus cluster development option.
- Feasibility of building on floodplain, floodway, wetlands.
- R1-C residential zoning district regulations, as relates to lot size.
- Number of units permitted by right; 21 or 18 units, subject to buildable lots.
- Approval process of cluster development option.
- Intent of EP zoning district; similar to conservation easement.

Bruce Michael, developer for the project, said the homes are of a craftsman-style architecture constructed of stone and wood siding with a 6-foot covered front porch with columns. He shared with the Board a few samples of building materials. Mr. Michael addressed elevations and floor plans, and the intent to build ranch style homes to serve the baby boomer age group. He indicated a base price of \$500,000, plus additional costs for structural options available to purchaser. Mr. Michael addressed tying-in to a regional detention facility, providing a public pathway connection to the existing pathway, and saving as many as trees as possible with a least disturbance to the existing wetlands.

#### There was discussion on:

- Wood siding; engineered, maintenance-free, fade/insect resistant product, 30-year warranty.
- Elevations; three elevations based on ranch style home, garage door elements.
- Floor plans; accommodation for physical accessibility, basements.
- Waiver of setback requirements for decks; 9 of 26 units require waiver.
- Visual view of residents; existing woodlands, vegetation, seclusion.
- Distance from the road to the homes parallel on the north property line.
- Parallel plan versus cluster development option.
- Number of units permitted by right; 21 or 18, subject to buildable lots.
- Quality of trees on site; preservation of trees.
- Environmental impact; less with cluster development option.
- Detailed engineering drawings at Final Site Plan approval; assurance no negative impact to neighboring properties.
- Percentage of units that can be constructed as ranches; 60-70%.
- Grading, drainage and protection of existing tree root balls.
- Paving of road at developer expense; small portions would remain unpaved.

#### PUBLIC HEARING OPENED

The following residents were generally in opposition of the proposed development and expressed concerns relating to existing drainage/flooding issues, density, traffic increase, cut-through traffic, safety of residents, safety of Leonard Elementary school children, lack of sidewalks, proposed development not a fit to characteristics of neighborhood, environmental impact on wetlands and wildlife and paving of road if cost is imposed on residents.

- Anthony Kapas, 501 Eckford; referenced material submitted (petition with 28 Eckford homeowner signatures, copy of front page of purchase agreement, Eckford street lot configuration); expressed concern with being "sandwiched" between proposed developments
- Randy German, 841 Eckford; offered pictures on phone illustrating existing drainage/flooding issues
- Dave Duda, 873 Eckford
- Brad Surman, 882 Eckford
- Talal Kakos, 983 Eckford
- Bob Kage, 718 Eckford

- Lisa Ruffin, 914 Eckford
- Mitch Doepke, 870 Eckford
- Rhonda Jewell, 689 Eckford; shared flash drive of pictures illustrating character of neighborhood, existing drainage/flooding issues
- Ronald Eng, 749 Eckford; addressed noise pollution from DPW yard
- Caitlin Rider, 770 Eckford; father Jeff Rider also in audience
- Marge Kowalak, 850 Eckford
- Mo (Maurits) Winkleprins, 650 Eckford
- Tom Randazzo, 273 Eckford
- Cheryl Kapas, 501 Eckford; addressed hazardous curve in road
- Anne Warlick, 845 Eckford
- Irys German, 841 Eckford; shared pictures on phone illustrating existing drainage/flooding issues

#### PUBLIC HEARING CLOSED

#### Discussion followed on:

- Traffic study; review by Engineering did not warrant study; Planning Commission could request traffic study, if so desired.
- Paving of road; City requires developer to pave at their expense, small portion will remain unpaved.
- Concerns with existing drainage/flooding; potential for improvement with proposed development tie-in to regional detention basin.
- Parallel plan vs cluster development option, as relates to preservation of open space, environmental impact, density.
- Existing tree coverage sufficient to buffer homes on Eckford.
- Traffic concerns; safety, traffic control, no sidewalks.
- Existing characteristics of neighborhood.
- Hazardous curve in road on Eckford.
- Consideration of proposed setback requirement deviations; number of units seeking deviation.
- Property rights of both the developer/property owner and residents.
- Open space if developed by right; Mr. Michael estimated 3.5 acres.

#### Resolution # PC-2022-04-025

Moved by: Krent Support by: Faison

**RESOLVED**, The Planning Commission hereby recommends to the City Council that the proposed Eckford Oaks Site Condominium (One Family Residential Cluster), 26 units/lots, North side of Eckford, West of Rochester (Parcels 88-20-15-275-026, 88-20-15-275-017), Section 15, approximately 8.7 acres in size, Currently Zoned R-1C (One Family Residential) District, be approved for the following reasons:

1. The cluster development better protects the site's natural resources than if the site were not developed as a cluster.

- 2. The cluster development better protects the adjacent properties than if the site were not developed as a cluster.
- 3. The cluster development is compatible with adjacent properties.
- That the setback requirements be waived for the decks along the north side of the property because they are adjacent to environmentally protected land and the City of Troy property.
- 5. The site can be adequately served with municipal water and sewer.
- 6. The cluster development preserves 45% open space, to remain open space in perpetuity.

**BE IT FINALLY RESOLVED,** The Planning Commission offers the following design considerations:

- 1. The applicant shall indicate limits of grading to conform impact upon onsite wetlands and floodplains, prior to Final Site Plan Approval.
- 2. The applicant shall provide protection of trees on properties 1 and 2 where possible by draining water in a creative way to avoid damage to root balls of some major trees.
- 3. The applicant shall insure 70% of the homes built on this property will be ranch style.
- 4. That an Open Space Preservation Agreement is provided, prior to Final Site Plan Approval.
- 5. That the applicant plant new trees to buffer the street for the homes to the north, should those trees be affected by the re-grading of the property.

#### Discussion on the motion on the floor:

Chair Lambert addressed concerns expressed by the public as relates to traffic and said attention should be given to traffic control especially near the elementary school. He said he believes the cluster plan is a better solution for the preservation of green space.

Following discussion among Board members and the administration with respect to what percentage of homes could be built as ranches, Mr. Michael said he is comfortable that 70% of the homes could be built as ranches.

Yes: Buechner, Faison, Hutson, Krent, Lambert, Perakis, Tagle

No: Malalahalli, Rahman

#### **MOTION CARRIED**

#### **OTHER ITEMS**

6. PUBLIC COMMENT – For Items on the Agenda

There was no one present who wished to speak.

#### 7. PLANNING COMMISSION COMMENT

There were general comments, some relating to:

- Open Space Agreements; sample(s) to be provided to members.
- Signage; as relates to content.

Chair Lambert thanked Board members and the audience for a mannerly public hearing this evening.

#### 8. ADJOURN

The Regular meeting of the Planning Commission adjourned at 10:02 p.m.

Respectfully submitted,	
David Lambert, Chair	
Kathy L. Czarnecki, Recording Secretary	

https://d.docs.live.net/2f7ed4fe5f664ea8/Documents/Kathy/COT Planning Commission Minutes/2022/2022 04 26 Draft.docx

DATE: May 6, 2022

TO: Planning Commission

FROM: R. Brent Savidant, Community Development Director

SUBJECT: PUBLIC HEARING - PRELIMINARY SITE PLAN REVIEW (SP JPLN2021-0028) -

Proposed Golden Villas One Family Residential Cluster, South side of Square Lake, West of Dequindre (PIN 88-20-12-200-031 & 88-20-12-200-035), Section

12, Currently Zoned R-1C (One Family Residential) District

The petitioner Golden Homes submitted the above referenced Preliminary Site Plan application for a 12-unit One Family Residential Cluster. The development proposes to preserve 33% open space on the 3.0-acre parcel. The Planning Commission is responsible for providing a recommendation to City Council for this item.

The attached report prepared by Carlisle/Wortman Associates, Inc. (CWA), the City's Planning Consultant, summarizes the project. CWA prepared the report with input from various City departments including Planning, Engineering, Public Works and Fire. City Management supports the findings of fact contained in the report and the recommendations included therein.

#### Attachments:

- 1. Maps
- 2. Report prepared by Carlisle/Wortman Associates, Inc.
- 3. Preliminary Site Plan Application

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#### PROPOSED RESOLUTION

<u>PUBLIC HEARING - PRELIMINARY SITE PLAN REVIEW (SP JPLN2021-0028)</u> - Proposed Golden Villas One Family Residential Cluster, South side of Square Lake, West of Dequindre (PIN 88-20-12-200-031 & 88-20-12-200-035), Section 12, Currently Zoned R-1C (One Family Residential) District

#### Resolution # PC-2022-05-

Moved by: Support by:

**RESOLVED**, The Planning Commission hereby recommends to the City Council that the proposed Golden Villas Site Condominium (One Family Residential Cluster), 12 units/lots, South side of Square Lake, West of Dequindre (Parcels 88-20-12-200-031 & 88-20-12-200-035), Section 12, approximately 3.0 acres in size, Currently Zoned R-1C (One Family Residential) District, be approved for the following reasons:

- 1. The cluster development better protects the adjacent properties than if the site were not developed as a cluster.
- 2. The cluster development is compatible with adjacent properties.
- 3. The site can be adequately served with municipal water and sewer.
- 4. The cluster development preserves 33% open space, to remain open space in perpetuity.
- 5. The cluster development offers 1,900 square foot units with first floor master bedrooms and bath, a housing type desired in Troy.

**BE IT FURTHER RESOLVED,** The Planning Commission recommends approval of granting relief from the required rear yard setback and required perimeter setback as per section 10.04.E.5, as outlined in the report.

**BE IT FINALLY RESOLVED,** The Planning Commission offers the following design considerations:

- 1. Applicant shall provide additional housing elevation options.
- 2. Applicant shall provide twenty (20) additional trees along Square Lake Road.

Yes:

Absent:

#### **MOTION CARRIED**

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## TROY

#### GIS Online



595 0 297 595 Feet



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.

# TROY

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595 0 297 595 Feet



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

Date: April 26, 2022

# For City of Troy, Michigan

Project Name: Golden Villas

Plan Date: February 28, 2022

**Location:** South of E. Square Lake, west of Dequindre

**Zoning:** R-1C, One-family Residential District

Action Requested: Preliminary Site Condominium Cluster Approval

**Required Information:** Deficiencies noted.

#### PROJECT AND SITE DESCRIPTION

We are in receipt of a preliminary site plan application for a twelve (12) unit detached single-family condominium cluster development. The twelve (12) new lots will be accessed from a new private road that is located off E. Square Lake Road. The site is two parcels and is a total of 3.0 acres. The site has been improved with two single-family homes and a number of accessory buildings. The applicant has not identified any wetlands on site.

The property is surrounded by R-1C on the north, west, south, and boarded by neighborhood node to the east. The applicant proposes a cluster development. The applicant proposes a T-turnaround with no vehicular connection to Colleen Drive to south. The applicant proposes pedestrian connection to Colleen Drive.

The base density base under the R-1C, One-Family Residential as determined by the submission of a parallel plan is eight (8) units. The applicant is seeking four (4) additional units above the parallel plan density by doing a cluster, providing 33% of the total site as open space and providing 1,900 sq/ft homes with first floor master bedroom and bath.

**Figure 1.** - Location and Aerial Image of Subject Site



#### Size of Subject Property:

The parcel is 3.0 acres

#### **Proposed Uses of Subject Parcel:**

Twelve (12) detached single family condominium cluster development.

#### <u>Current Use of Subject Property</u>:

The subject property is currently improved with two (2) single family homes

#### **Current Zoning:**

The property is currently zoned R-1C, One-Family Residential District.

#### **Surrounding Property Details:**

Direction	Zoning	Use
North	R-1D, One-family Residential District	Single-family homes
South	R-1C, One-family Residential District	Single-family homes
East	NN, Neighborhood Node	Townhomes (under development)
West	R-1C, One-family Residential District	Place of Worship

#### **NATURAL FEATURES**

**Topography:** A topographic survey has been provided on sheet P-1. The site is

relatively flat.

**Wetlands:** There are no identified wetlands on site.

**Floodplain:** The site is not located within a floodplain.

**Woodlands:** A tree survey has been provided to inventory the natural features that

exist onsite. The survey identified a total of 81 trees on site. Many of the trees are invasive. There is an especially high number of Cottonwoods. The applicant has identified a total of 9 landmark trees and 40 woodland trees, preserving 2 and 14, respectively. Full

replacement and preservation details are shown in Table 2.

**Table 2.** – Woodland Protection Ordinance

Replacement Details			
Protected Tree	Inches Removed Replacement Require		
Landmark	151 inches	151 inches	
Woodland	257 inches 129 inches		
Preservation/Mitigation	Inches Preserved	Credit	
Landmark	36 inches	72 inches	
Woodland	124 inches	248 inches	
Total	<b>0</b> inches required for replacement. The number of inches		
	preserved and credited exceed the mitigation required.		

Items to be addressed: None.

#### SITE ARRANGEMENT

The proposed one-family cluster development consists of twelve (12) units. All twelve (12) new lots will be accessed from a new private road off E. Square Lake Road. The proposed lots range between 5,617 sq. ft. and 6,115 sq. ft.

The applicant has submitted a parallel plan to establish a base density and portray the visual difference between traditional site design versus a cluster development. The cluster option is offered as an alternative to traditional residential development. The cluster option is intended to:

- 1. Encourage the use of property in accordance with its natural character.
- 2. Assure the permanent preservation of open space and other natural features.
- 3. Provide recreational facilities and/or open space within a reasonable distance of all residents of the Cluster development.
- 4. Allow innovation and greater flexibility in the design of residential developments.
- 5. Facilitate the construction and maintenance of streets, utilities, and public services in a more economical and efficient manner.
- 6. Ensure compatibility of design and use between neighboring property.
- 7. Encourage a less sprawling form of development, thus preserving open space as undeveloped land.
- 8. Allow for design innovation to provide flexibility for land development where the normal development approach would otherwise be unnecessarily restrictive or contrary to other City goals

**Items to be addressed:** Planning Commission shall determine if requirements are met to qualify for cluster development options and if the additional number of units is commensurate with open space being preserved.

#### AREA, WIDTH, HEIGHT, SETBACKS and REGULATORY FLEXIBILITY

The intent of the cluster development provisions is to relax the typical R-1C district bulk requirements in order to encourage a less sprawling form of development that preserves open space and natural resources. As set forth in 10.04.E the applicant is able to seek specific departures from the dimensional requirements of the Zoning Ordinance for yards and perimeter setback as a part of the approval process.

**Table 1.** – Bulk Requirements

	Required/Allowed	Provided	Compliance
Density	Overall density shall not exceed the number of residential cluster units as developed under a conventional site condominium, unless a density bonus has been granted by City Council.	Base Density = 8 units + Cluster bonus (33% bonus) + Housing Diversity = 17 units are allowed  The applicant is seeking 12 units.	Complies. 12 units are permitted with City Council approval.
Perimeter Setback	Equal to the rear yard setback requirement for the underlying zoning district of the property directly adjacent to each border = 40 feet perimeter setback	Decks for Units 1-3 encroach up to 10- into the required perimeter setback	Decks for Units 1-3 encroach up to 10- into the required perimeter setback
Lot Size	10,500 sq. ft.	The proposed lots range between 5,617 sq. ft. and 6,115 sq. ft.	Complies with approval of Cluster by City Council
Front Setback (building)	20 feet	22 feet	Compiles
Rear Setback (building)	25-feet setback	25-feet minimum 10-feet with deck	Building envelopes comply. All decks encroach 15-feet into required rear yard. Applicant seeking relief to have minimum rear yard less than 25-feet due to deck.
Side Setback (building)	7.5-feet setback	7.5-feet minimum	Complies
Open Space Requiremen ts: Minimum Percentage	20%	Proposing to preserve 1 acre of the 3 acre parcel, or 33%, for open space.	Complies. Applicant must submit open space preservation covenant.

The applicant is showing decks on the rear of all properties. As set forth in Section 7.08.B:

An open, unenclosed, and uncovered porch, raised deck, or patio structure may project into a required rear yard for a distance not to exceed fifteen (15) feet, subject further to the requirement that the distance remaining between the encroaching facility and the rear lot line shall in no instance be less than twenty-five (25) feet. Porch, deck, patio, or terrace facilities encroaching into required front or rear yards shall not include fixed canopies, gazebos or permanent enclosures, and shall be at a grade no higher than that of the first or main floor of the building to which they are attached.

Lots 1-3 encroach up to 10-feet into the required 40-foot perimeter setback. In addition, all decks extend 15-feet from home and encroach 15-feet into the required 25-feet rear yard. Please note that provision 7.08.B was drafted for a conventional R 1 through R-5 lot that requires a 40-foot setback. Hence for a typical R-lot, the 40-foot rear yard requirement would allow a 15-foot deck and still maintain at least a 25-foot rear yard setback. However, due to the required additional perimeter setback required by the cluster provisions, the decks are further away from the northern property line via cluster than conventional layout.

The City Council, based upon a recommendation from the Planning Commission, may waive the rear lot and perimeter setback provisions provided that the applicant has demonstrated innovative and creative site and building designs and solutions, which would otherwise be unfeasible or unlikely to be achieved absent this provision. The Planning Commission should consider the purpose and intent of the Cluster Development option in considering the setback deviations.

Items to be addressed: Consider the deck encroachment into rear setback and perimeter buffer

#### **OPEN SPACE REQUIREMENTS**

A requirement of the Cluster Option is to provide at least one (1) of the following open space benefits:

- a. Significant Natural Features. Preservation of significant natural features contained on the site, as long as it is in the best interest of the City to preserve the natural features that might be negatively impacted by conventional residential development. The determination of whether the site has significant natural features shall be made by the City Council, after review of a Natural Features Analysis, prepared by the applicant, that inventories these features; or
- b. Recreation Facilities. If the site lacks significant natural features, it can qualify with the provision of usable recreation facilities to which all residents of the development shall have reasonable access. Such recreation facilities include areas such as a neighborhood park, passive recreational facilities, soccer fields, ball fields, bike paths, or similar facilities that provide a feature of community-wide significance and enhance

residential development. Recreational facilities that are less pervious than natural landscape shall not comprise more than fifty (50) percent of the open space. The determination of whether the site has significant natural features shall be made by the City Council after review of a Site Analysis Plan, prepared by the applicant, that inventories these features; or

c. Preservation of Common Open Space or Creation of Natural Features. If the site lacks significant natural features, a proposed development may also qualify if the development will preserve common open space or create significant natural features such as wetlands. The determination of whether the site has significant natural features shall be made by the City Council after review of a Site Analysis Plan, prepared by the applicant, which inventories these features.

The site is 3 acres, and the applicant is proposing to reserve 1.0 acres for common open space, or 33% of the total site. Open space is provided within an open space collar around the northern, western, eastern, and southern property line. The open space collar ranges from 13-feet in depth along the northwest portion of the site, 50+ feet along the eastern property line, and 10-feet along the southern property line. As part of the review, the Planning Commission is to consider and make a recommendation to City Council if the layout and open space plan meets the intent and standards of the Cluster provision and has the applicant creatively designed the site to either preserve significant natural resources (trees, wetland, and floodplain) or provide quality open space.

#### **Guarantee of Open Space and Tree Preservation:**

The applicant shall provide documentation to guarantee that all open space portions of the development will be preserved and maintained as approved and that all commitments for such preservation and maintenance are binding on successors and future owners of the subject property. All such documents shall be subject to approval by the City Attorney. No structures (pools, sheds) or equipment (play structures, etc.) are permitted within the dedicated open space area.

**Items to be addressed:** Planning Commission is to consider and make a recommendation to City Council if the layout and open space plan, and/or natural features meet the intent of the Cluster provision and has the applicant creatively designed the site to either preserve significant natural resources (trees) or provide quality open space.

#### SITE ACCESS AND CIRCULATION

#### Vehicular

Access to the site will be from a single location off Square Lake Road. The development will be served by an internal twenty-eight (28) foot wide private road, located inside of a forty (40) foot roadway easement. The applicant proposes a T-turn around at the end of the private road. The City Streets Department and Fire Department has reviewed the T-turnaround and finds it complies with city requirements.

#### Pedestrian

The applicant proposes a five (5) foot wide concrete sidewalk along the perimeter of the private road. The internal sidewalk will connect to existing sidewalk on Square Lake Road. In addition, the applicant proposes a sidewalk connection Colleen Drive to the south.

Items to be Addressed: None

#### **STORMWATER**

Stormwater will be managed by a regional detention system.

Items to be Addressed: None.

#### **LANDSCAPING**

One-Family Cluster development landscaping requirements are regulated by Section 13.02.F.2.

**Table 2.** – Landscaping Requirements

Frontage	Required	Provided	Compliance
Proposed Private Rd.	One (1) deciduous tree for every 50 lineal feet. 890 /50 = 18 trees	18 trees	Complies
E. Square Lake Road 120-foot ROW (section 13.02 F.2.c)	One (1) large evergreen tree per ten (10) lineal feet. 329 lf/10 lf = 33 evergreen trees	13 proposed	Does not Complies

The applicant is deficient of twenty (20) trees along Square Lake.

Items to be Addressed: Provide twenty (20) additional trees along Square Lake Road.

#### **ELEVATIONS AND FLOOR PLANS**

The applicant has submitted one housing options with a square footage up to 1,900. The applicant shall supply additional housing elevation options. Materials include brick, stone, and cedar veneer.

**Items to be Addressed:** Provide additional housing elevation options

#### **CLUSTER STANDARDS**

As set forth in section 10.04.I, the applicant shall demonstrate that through the use of the Cluster option, the development will accomplish a sufficient number of the following objectives, as are reasonably applicable to the site, providing:

- a. Long-term protection and preservation of natural resources, natural features, and open space 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.
- b. Innovative and creative site design through flexibility in the siting of dwellings and other development features that would otherwise be unfeasible or unlikely to be achieved absent these regulations.
- c. Appropriate buffer and/or land use transitions between the Cluster development and surrounding properties.
- d. A compatible mixture of open space, landscaped areas, and/or pedestrian amenities.
- e. Sustainable design features and techniques, such as green building, stormwater management best practices, and low impact design, which will promote and encourage energy conservation and sustainable development.
- f. A means for owning common open space and for protecting it from development in perpetuity.
- g. Any density bonus is commensurate with the benefit offered to achieve such bonus.
- h. The cluster development shall be adequately served by essential public facilities and services, such as: streets, pedestrian or bicycle facilities, police and fire protection, drainage systems, refuse disposal, water and sewage facilities, and schools. Such services shall be provided and accommodated without an unreasonable public burden.
- i. The architectural form, scale, and massing shall ensure buildings are in proportion and complementary to those of adjacent properties and the selected building materials are of high, durable quality. The garage shall not be the dominant feature of a residential building.

The applicant is seeking four (4) additional units above the parallel plan density by doing a cluster, providing 33% of the total site as open space and providing 1,900 sq/ft homes with first floor master bedroom and bath.

#### **RECOMMENDATIONS**

Planning Commission shall determine if requirements are met to qualify for cluster development option, if the required standards have been met, and if the additional number of units is commensurate with open space being preserved and the provision of smaller homes.

Items to consider include:

- Applicant is seeking following relief:
  - o Decks encroaching 15-foot into the required 25-foot rear yard
  - Lots 1-3 encroach up to 10-feet into the required 40-foot perimeter setback
- Provide additional housing elevation options
- Provide twenty (20) additional trees along Square Lake Road.

The Planning Commission may request that either the applicant address aforementioned items or make a recommendation for City Council consideration.

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

## PRELIMINARY SITE PLANS

# GOLDEN VILLAS

# EAST SQUARE LAKE ROAD CITY OF TROY, OAKLAND COUNTY, MICHIGAN

PERMIT / APPROVAL SUMMARY DATE SUBMITTED DATE APPROVED PERMIT / APPROVAL



### **INDEX OF DRAWINGS** NUMBER TITLE **COVER SHEET** TOPOGRAPHIC SURVEY PRELIMINARY SITE PLAN PARALLEL SITE PLAN PRELIMINARY GRADING PLAN PRELIMINARY UTILITY PLAN PRELIMINARY LANDSCAPE PLAN TREE PRESERVATION PLAN **1ST FLOOR PLAN** 2ND FLOOR PLAN 2ND FLOOR PLAN FRONT ELEV.

#### **DESIGN TEAM**

OWNER/APPLICANT/DEVELOPER CIVIL ENGINEER

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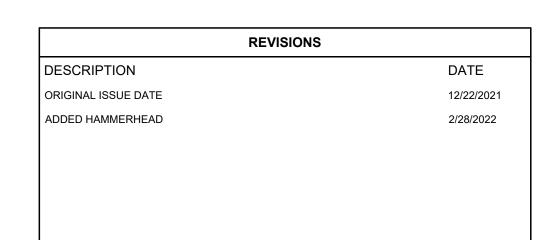
ARCHITECT

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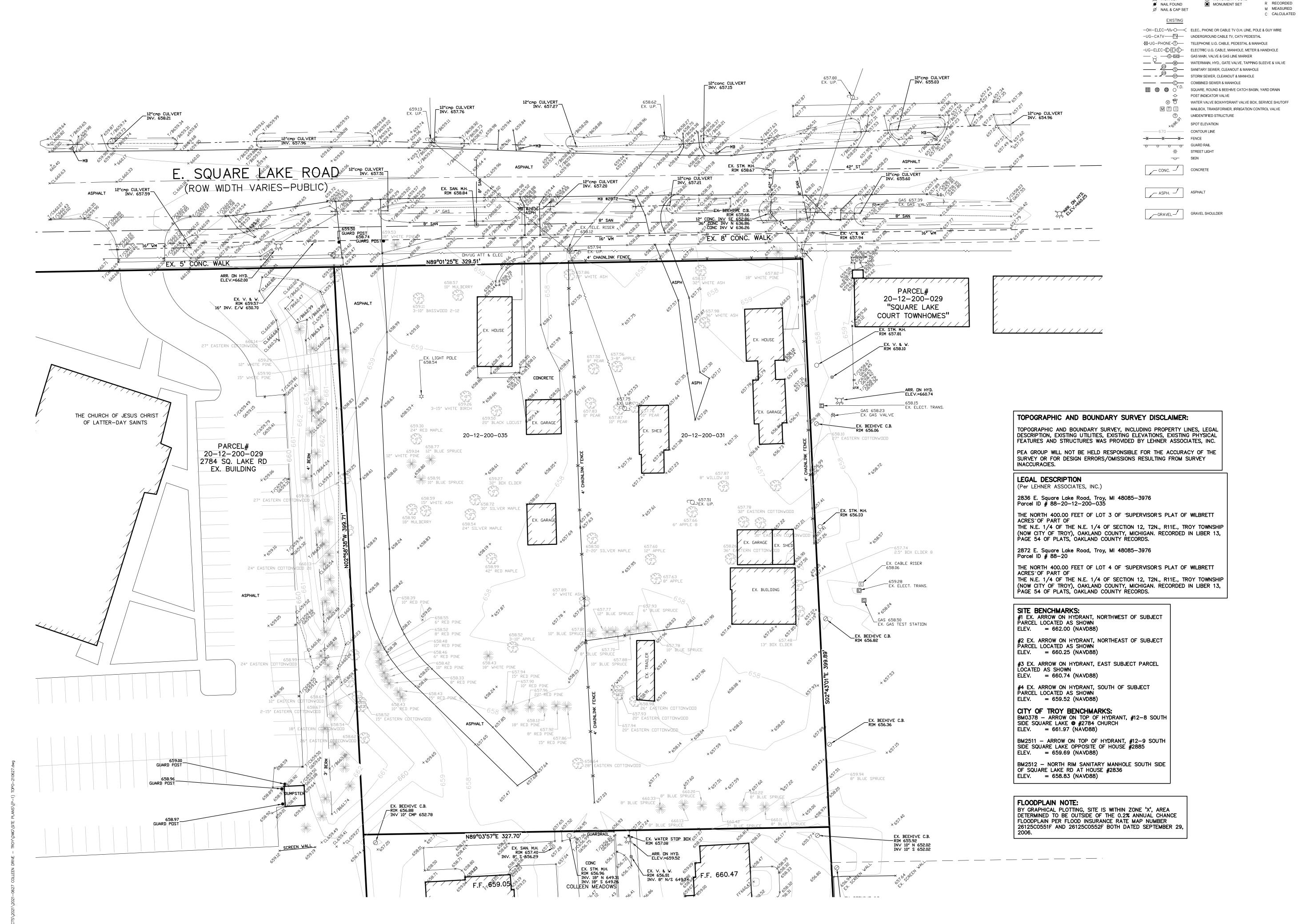
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# GROUP







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LEGEND

SEC. CORNER FOUND

BRASS PLUG SET

MONUMENT FOUND

IRON FOUND







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.

CLIENT

GOLDEN HOMES
48661 HAYES ROAD
SHELBY TWP, MICHIGAN

PROJECT TITLE

GOLDEN VILLAS
EAST SQUARE LAKE ROAD
CITY OF TROY, MICHIGAN

REVISIONS
ADDED HAMMERHEAD 02-28-22

ORIGINAL ISSUE DATE: DECEMBER 22, 2021 DRAWING TITLE

TOPOGRAPHIC SURVEY

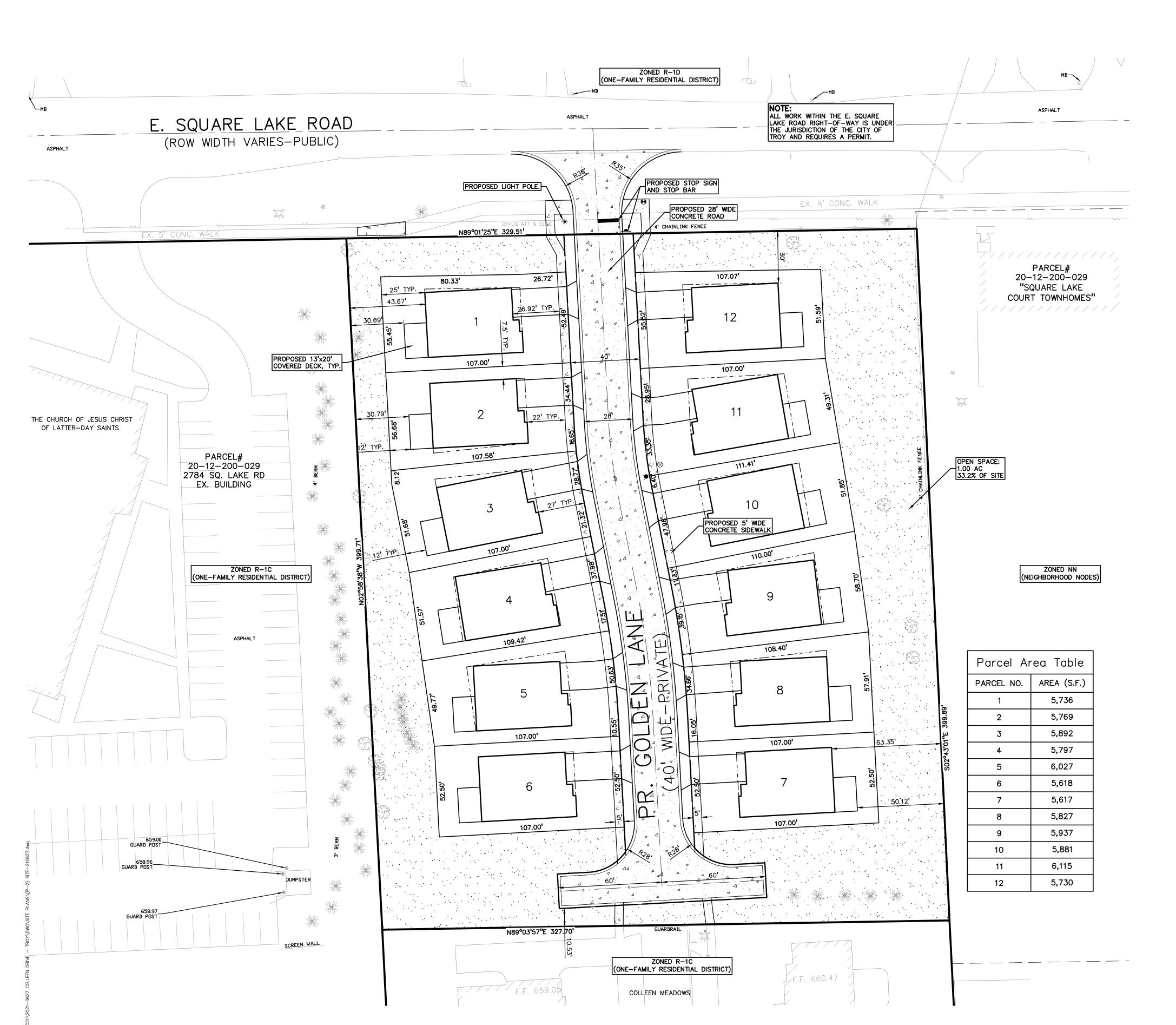
PEA JOB NO. 2021-0627

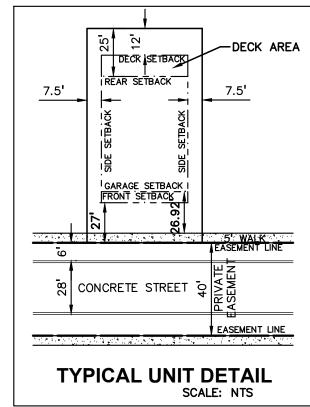
P.M. JBT

DN. TMK

DES. TMK

DRAWING NUMBER:





SITE DATA:

SIZE OF PROPERTY: 3.01 ACRES

LOCATION OF PROJECT: SOUTH SIDE OF E SQUARE LAKE ROAD, WEST OF DEQUINDRE ROAD

TOTAL UNDEVELOPED AREA: 1.00 AC (33.2%)

CURRENT ZONING: R-1C, ONE-FAMILY RESIDENTIAL DISTRICT

CLUSTER OPTION CALCULATION:

BASE NUMBER OF UNITS — PARALLEL PLAN = 8 UNITS

NN-K, NEIGHBORHOOD NODE

20% DENSITY BONUS PER 10.04D = 1 UNITS
(OPEN SPACE PROVIDED = 1.00 ACRES, 33.2%)
(OPEN SPACE INCLUDES UTILITY EASEMENTS)
HOUSING DIVERSITY = 2 X PARALLEL PLAN = 16
(MAXIMUM SQUARE FOOTAGE NOT TO EXCEED 1,900
FIRST FLOOR MASTER BEDROOM AND LAUNDRY)

TOTAL UNITS ALLOWED = 17 UNITS

REQUIRED AND PROVIDED LOT DIMENSIONS:

SURROUNDING PROPERTY DETAILS:

MAXIMUM HEIGHT

LOT WIDTH

OPEN SPACE

TOTAL UNITS PROVIDED = 12 UNITS

PROPOSED USE OF PROPERTY: TWELVE (12) DETACHED, SINGLE FAMILY HOMES

PROPOSED: R-1C, ONE-FAMILY RESIDENTIAL DISTRICT, CLUSTER OPTION

R-1D, ONE-FAMILY RESIDENTIAL DISTRICT

R-1C, ONE-FAMILY RESIDENTIAL DISTRICT CHURCH

REQUIRED (CLUSTER): 20 FOOT SETBACK\*

7.5 FOOT MIN. (ONE),

25 FOOT SETBACK

15 FOOT TOTAL

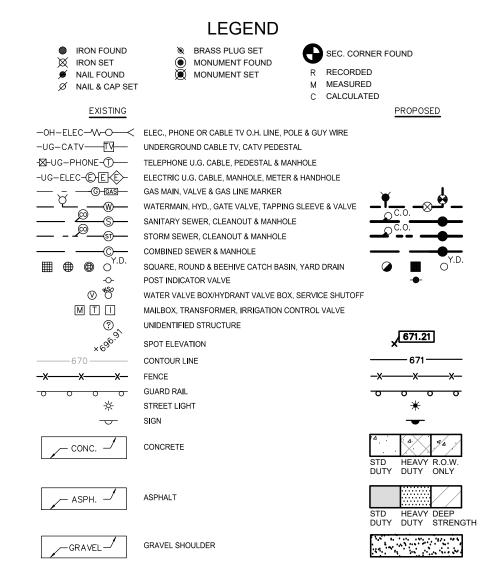
30 FEET, 2.5 STORY

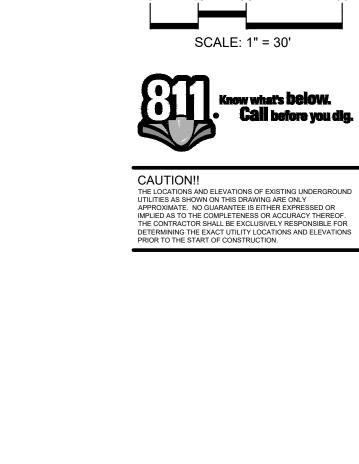
85 FEET (R-1C)

\* 25' (MIN) FOR GARAGE SETBACK (EDGE WALK TO GARAGE DOOR)

R-1C, ONE-FAMILY RESIDENTIAL DISTRICT

AREA DEVELOPED: 2.01 AC (66.8%)





GOLDEN HOMES
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SHELBY TWP, MICHIGAN

CLIENT

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PROJECT TITLE

GOLDEN VILLAS

EAST SQUARE LAKE ROAD
CITY OF TROY, MICHIGAN

PROJECT AND SITE DESCRIPTION:
PROPOSED CONSTRUCTION OF A 12-LOT SINGLE FAMILY DETACHED SITE CONDOMINIUM PROJECT ON THE SOUTH SIDE OF E SQUARE LAKE ROAD, WEST OF DEQUINDRE ROAD. ACCESS TO ALL UNITS WILL BE VIA CONNECTION TO E SQUARE LAKE ROAD. THE PROPOSED RESIDENTIAL USE IS PERMITTED BY—RIGHT IN THE R—1C DISTRICT. THE SITE IS CURRENTLY PRIVATE RESIDENCES.

SITE ARRANGEMENT:
THE PROPOSED SITE CONDOMINIUM CONSISTS OF 12 LOTS (17 LOTS ALLOWED) WITH MINIMUM LOT SIZE OF 5,617 SQUARE FEET. THE AVERAGE LOT SIZE IS 5,829 SQUARE FEET. ALL UNITS FRONT ON A NEW PRIVATE STREET. THE PROPOSED LOTS ARE REGULAR IN SHAPE, ALLOW FOR ADEQUATE SETBACKS, AND PERMIT SUFFICIENT SPACE FOR THE HOMES AND INGRESS AND EGRESS FOR EACH UNIT ACCORDING TO

USE SINGLE-FAMILY HOMES SINGLE-FAMILY HOMES MULTI-FAMILY

PROVIDED: 22 FOOT SETBACK

25 FOOT SETBACK

7.5 FOOT MIN. (ONE), 15 FOOT TOTAL

30 FEET, 2.5 STORY

60 FEET MIN.

33.2%

NATURAL RESOURCES: THE SITE CURRENTLY HAS MINIMAL TREE COVER.

FLOODPLAIN:
THE PROPERTY IS NOT LOCATED WITHIN THE FLOOD HAZARD AREA INDICATED BY FLOOD INSURANCE RATE NUMBER 26125C0551F AND 26125C0552F BOTH DATED SEPTEMBER 29, 2006.

ACCESS AND CIRCULATION:

VEHICULAR ACCESS AND CIRCULATION:
VEHICULAR ACCESS TO ALL UNITS WILL BE VIA A NEW STREET LOCATED OFF E SQUARE LAKE ROAD. THE
NEW ROADWAY WILL HAVE A FORTY (40) FOOT WIDE PRIVATE ROAD EASEMENT.

PEDESTRIAN ACCESS AND CIRCULATION: A 5-FOOT WIDE SIDEWALK IS PROVIDED AT BOTH SIDES OF THE NEW ROADWAY.

THE CLUSTER OPTION. A MINIMUM OF 30% OPEN SPACE HAS BEEN PROVIDED.

UTILITIES:
UTILITIES ARE PLACED WITHIN STREET RIGHT-OF-WAY, OR WITHIN EASEMENTS APPROVED AS TO SIZE AND LOCATION BY THE CITY ENGINEER.

ALL SITES ARE SERVED BY PUBLIC WATER, SANITARY SEWER, STORM WATER AND DETENTION/RETENTION SYSTEMS CONSTRUCTED TO CITY STANDARDS, AT THE EXPENSE OF THE DEVELOPER. EASEMENTS OVER THESE SYSTEMS SHALL BE CONVEYED AND RECORDED BEFORE OCCUPANCY PERMITS ARE ISSUED FOR DWELLING UNITS.

DETENTION WAS PROVIDED FOR THIS DEVELOPMENT IN THE COLLEEN MEADOWS STORM SEWER DETENTION CALCULATIONS.

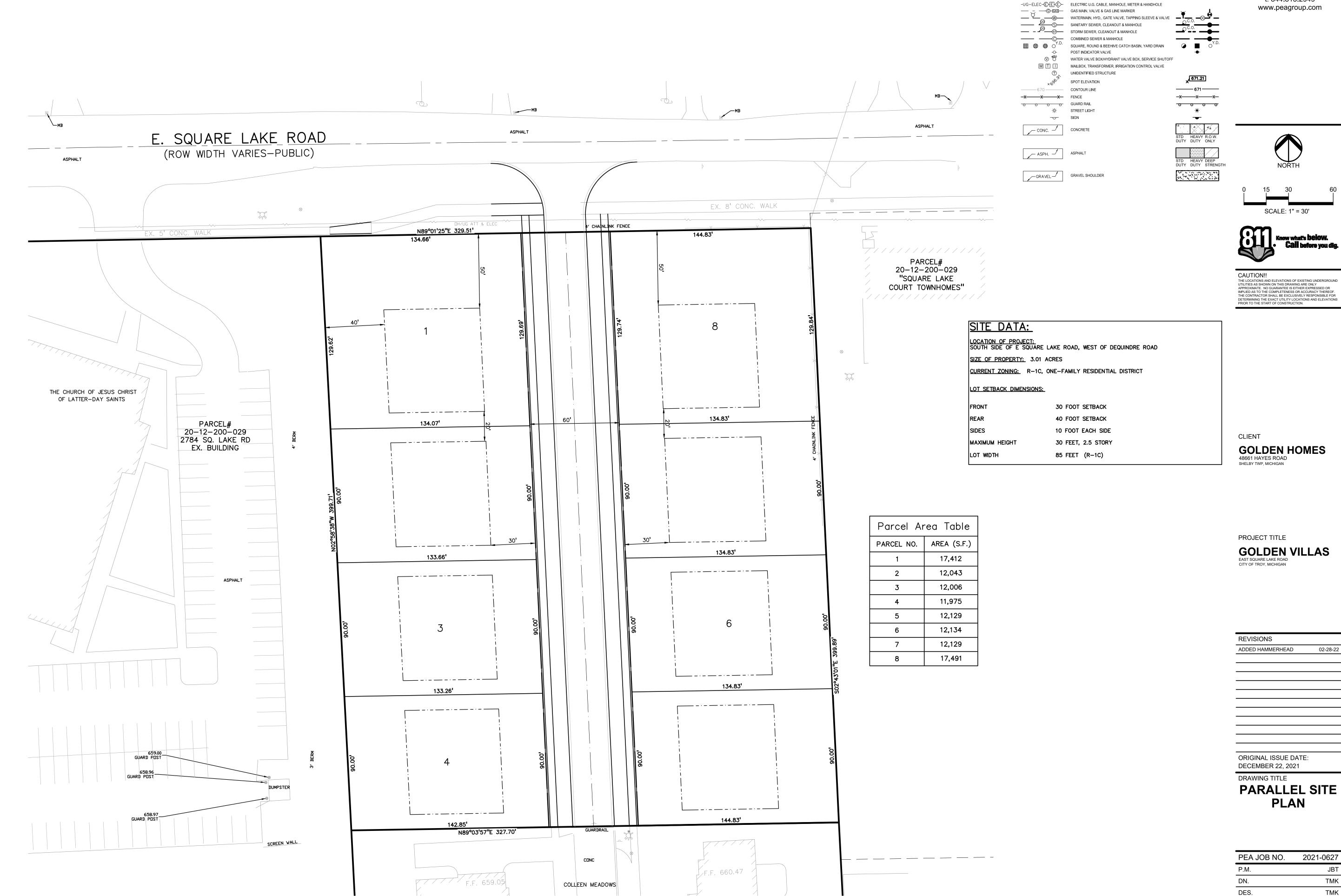
	REVISIONS	
_	ADDED HAMMERHEAD	02-28-22
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ORIGINAL ISSUE DATE: DECEMBER 22, 2021 DRAWING TITLE

> PRELIMINARY SITE PLAN

PEA JOB NO.	2021-0627
P.M.	JBT
DN.	TMF
DES.	TMF

DRAWING NUMBER:



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LEGEND

SEC. CORNER FOUND

R RECORDED

M MEASURED

C CALCULATED

RASS PLUG SET

MONUMENT SET

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

-UG-CATV-TV- UNDERGROUND CABLE TV, CATV PEDESTAL -⊠-UG-PHONE-Ū--- TELEPHONE U.G. CABLE, PEDESTAL & MANHOLE

MONUMENT FOUND

IRON FOUND

Ø NAIL & CAP SET



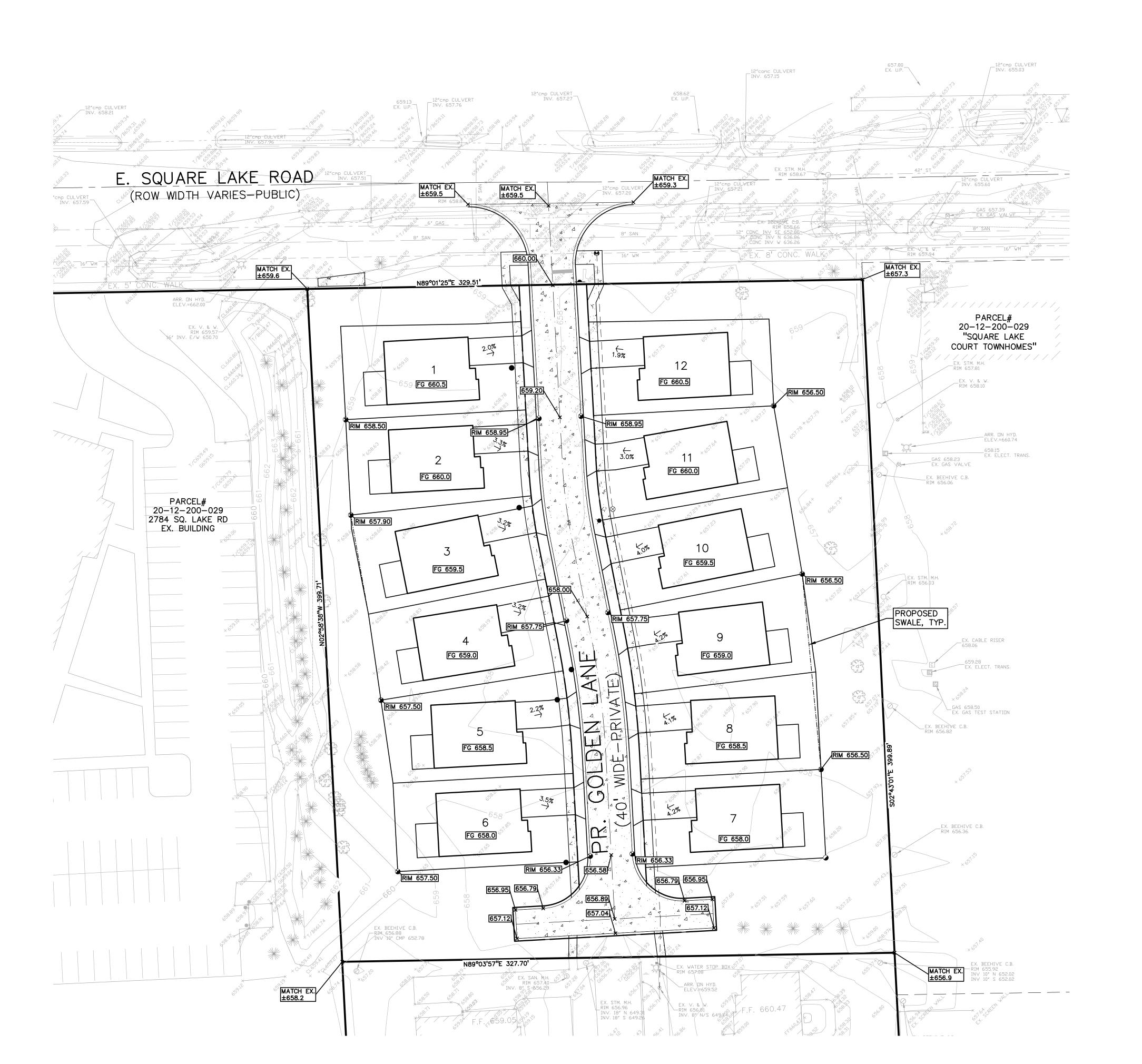


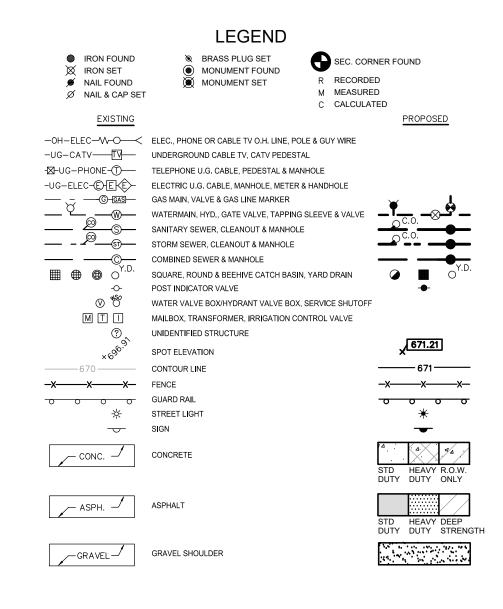


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**PLAN** 

2021-0627 DRAWING NUMBER:

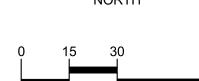




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SYMBOLS: GRADING

PROPOSED SPOT ELEVATION:
TYPICALLY TOP OF PAVEMENT IN PAVED
AREAS, GUTTER GRADE IN CURB LINES.

PROPOSED CONTOUR LINE

ABBREVIATIONS:
T/C = TOP OF CURB
G = GUTTER GRADE
T/P = TOP OF PAVEMENT
T/S = TOP OF SIDEWALK
T/W = TOP OF WALL
B/W = BOTTOM OF WALL
F.G. = FINISH GRADE
RIM = RIM ELEVATION

RETAINING WALL NOTE:

TOP OF WALL (T/W) AND BOTTOM OF WALL (B/W)
GRADES ARE THE FINISH GRADE AT THE TOP AND
BOTTOM OF THE RETAINING WALL, NOT ACTUAL TOP
AND BOTTOM OF THE WALL STRUCTURE.

CLIENT
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48661 HAYES ROAD SHELBY TWP, MICHIGAN

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REVISIONS
ADDED HAMMERHEAD 02-28-22

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PRELIMINARY GRADING PLAN

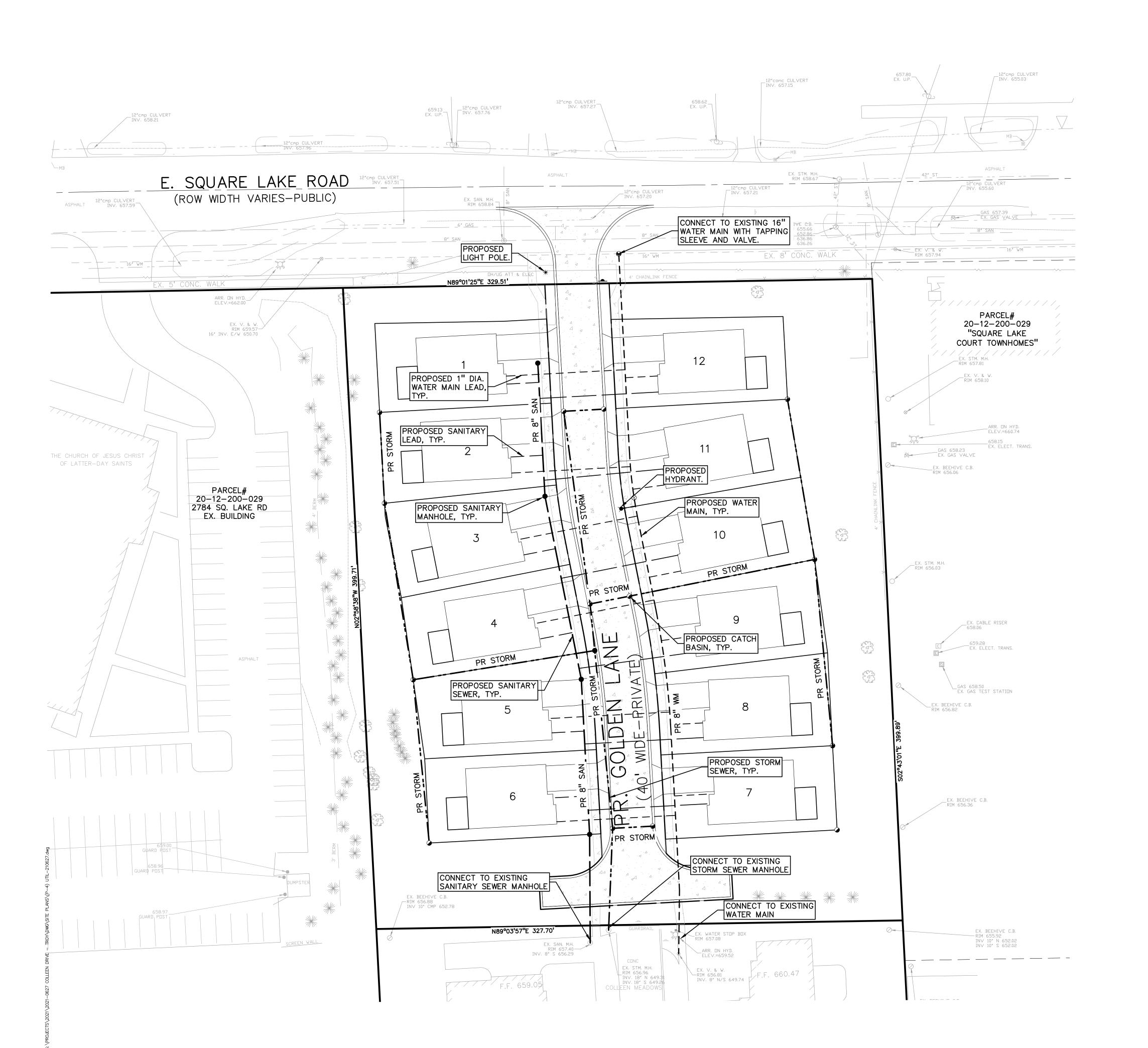
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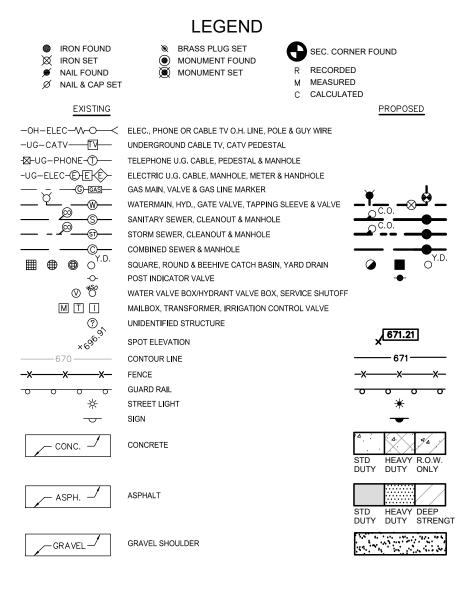
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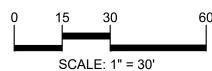
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NOTE:
DETENTION FOR THIS DEVELOPMENT
WAS INCLUDED IN THE DESIGN OF
THE COLLEEN MEADOWS STORM
WATER DETENTION CALCULATIONS.

CLIENT

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EAST SQUARE LAKE ROAD
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ADDED HAMMERHEAD 02-28-22

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PRELIMINARY
UTILITY PLAN

PEA JOB NO. 2021-0627
P.M. JBT
DN. TMK
DES. TMK
DRAWING NUMBER:

LANDSCAPE CALCULATIONS: PER CITY OF TROY ZONING ORDINANCE; R-1C INTERNAL PUBLIC ROADS STREET TREES REQUIRED: 1 TREE / 50 LF (BOTH SIDES RD.) 445 LF / 50 LF = 9 TREES EACH SIDE. PROVIDED: 18 TREES TOTAL NOTE: TREES SHALL BE PLACED AT A MINIMUM OF 5' AWAY FROM UTILITY LEADS. REQUIRED: 1 TREE / 30 LF OF STREET FRONTAGE. 330' OF RIGHT OF WAY/ 30 = 11 DEC TREES REQUIRÉD. PROVIDED: 11 EVG TREES PROVIDED NOTE: TREES SHALL BE PLANTED 5' AWAY FROM UTILITIES. TREE REPLACEMENT: REQUIRED: NO TREE REPLACEMENT REQUIRED SEE TREE PRESERVATION PLAN, T-1.0, FOR TREE REMOVALS AND CALCULATIONS. ADDITIONAL PARK SPACE TREES: NOT REQUIRED. PROVIDING SUBSTANTIAL TREE INFILL TO FURTHER IMPROVE OPEN

LANDSCAPE AREA BETWEEN SINGLE FAMILY RESIDENCES AND ADJACENT PROPERTIES.

**DECIDUOUS TREE PLANT LIST:** QUANTITY KEY SYMBOL COMMON NAME SCIENTIFIC NAME SIZE Malus 'Prairiefire' 2.5" Cal. B&B LT2.5 2.5" Cal. B&B **Tulip Tree** Liriodendron tulipifera QA2.5 2.5" Cal. B&B White Oak Quercus alba Ulmus 'Frontier' 2.5" Cal. B&B UF2.5 Frontier Elm TOTAL DECIDUOUS TREES **EVERGREEN TREE PLANT LIST:** QUANTITY KEY SYMBOL COMMON NAME SCIENTIFIC NAME Abies balsamea 8' Ht. Balsam Fir Black Hills Spruce Picea glauca 'Densata' 8' Ht. B&B Eastern White Pine Pinus strobus 8' Ht. B&B TOTAL EVERGREEN TREES



KEY:



= INTERNAL DRIVE TREES





= GREENBELT TREES



= ADDITIONAL OPEN-SPACE TREES



= NON-IRRIGATED SEED LAWN

= IRRIGATED SOD LAWN



= EXISTING TREES TO REMAIN WITH TREE PROTECTION FENCE

- 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
- 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.
- 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 SYMMETRICAL CROWNS.
- ALL SINGLE TRUNK SHADE TREES TO HAVE A CENTRAL LEADER; TREES WITH FORKED OR IRREGULAR TRUNKS
- 10. ALL TREES TO HAVE CLAY OR CLAY LOAM BALLS, TREES WITH SAND BALLS WILL BE REJECTED.
- 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. 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. SEE SPECIFICATIONS FOR ADDITIONAL COMMENTS, REQUIREMENTS, PLANTING PROCEDURES AND WARRANTY

#### **GENERAL PLANTING NOTES:**

- 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 CONCERNS.
- CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL QUANTITIES SHOWN ON LANDSCAPE PLAN PRIOR TO PRICING THE WORK.

- WILL NOT BE ACCEPTED.
- ALL MULTI STEM TREES SHALL BE HEAVILY BRANCHED AND HAVE SYMMETRICAL CROWNS. ONE SIDED TREES OR THOSE WITH THIN OR OPEN CROWNS SHALL NOT BE ACCEPTED.
- ALL EVERGREEN TREES SHALL BE HEAVILY BRANCHED AND FULL TO THE GROUND, SYMMETRICAL IN SHAPE AND NOT SHEARED FOR THE LAST FIVE GROWING SEASONS.

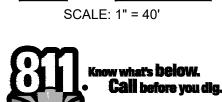
- 14. ALL LANDSCAPED AREAS SHALL RECEIVE 3" COMPACTED TOPSOIL.
- 16. CONTRACTOR SHALL NOT INSTALL PLANTS UNDER BUILDING OVERHANG AND SHALL NOTIFY LANDSCAPE ARCHITECT IF DRAWINGS CONFLICT WITH BUILDING
- 17. TREES SHALL NOT CONFLICT/ BLOCK PROPOSED REGULATORY/ DIRECTION SIGNAGE, MONUMENT SIGNS, ADDRESS OR LIGHT POLES. SHIFT TREES AS NECESSARY





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CLIENT **GOLDEN HOMES** 

48661 HAYES ROAD

SHELBY TWP, MICHIGAN

PROJECT TITLE

**GOLDEN VILLAS** EAST SQUARE LAKE ROAD CITY OF TROY, MICHIGAN

REVISIONS ADDED HAMMERHEAD 02-28-22

ORIGINAL ISSUE DATE: DECEMBER 22, 2021

DRAWING TITLE **PRELIMINARY LANDSCAPE PLAN** 

2021-0627 PEA JOB NO. JBT TMK DES. TMK DRAWING NUMBER:



TREE INVENTORY/PRESERVATION CALCULATIONS			
WOODLAND TREES			
WOODLAND TREES REMOVED:	26	(REPLACE AT 50% OF REMOVED DBH)	
<b>257"</b> DBH x 0.5 =		129" REPLACEMENT	
WOODLAND TREES SAVED:	14	(CREDIT OF 2X DBH)	
<b>124"</b> DBH x 2 =		248" CREDIT	
128.5 -	248	= -119.5	
0 " DBH REQUIRED FOR WOODLAND REPLACEMENT			
LANDMARK TREES			
LANDMARK TREES REMOVED:	7	(REPLACE AT 100% OF REMOVED DBH)	
<b>151"</b> DBH x 1 =		151" REPLACEMENT	
LANDMARK TREES SAVED:	2	(CREDIT OF 2X DBH)	
<b>36"</b> DBH x 2 =		72" CREDIT	
151 -	72	= 79	

LANDMARK

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<u>0 " TOTAL DBH REQUIRED FOR REPLACEMENT</u> -119.5 (WOODLAND CREDIT) + 79" LANDMARK = -40.5 (CREDIT)

COND COMMENTS

Good

LATIN NAME

Pinus strobus

Populus deltoides

Tilia americana

Morus rubra

Pinus strobus

Pinus strobus

Betula nigra

Robinia pseudoacacia

Malus sylvestris

Picea pungens

Pinus strobus

Picea pungens

Acer negundo

Populus deltoides

Morus rubra

Fraxinus americana

Acer saccharinum

Acer saccharinum

Acer negundo

Acer rubrum

Malus sylvestris

Pinus strobus

Pinus resinosa

Populus deltoides

Populus deltoides

Populus deltoides

Populus deltoides

Populus deltoides

Populus deltoides

Pinus resinosa

Pinus resinosa

Pinus resinosa

Pinus resinosa

Pinus resinosa

Pinus resinosa

Populus deltoides

Populus deltoides

Picea pungens

Picea pungens

Picea pungens

Picea pungens

Picea pungens

Acer negundo

Acer negundo

Picea pungens

Picea pungens

Picea pungens

Picea pungens

Acer saccharinum

Malus sylvestris

Populus deltoides

Populus deltoides

Populus deltoides

Populus deltoides

Salix Spp.

Pyrus communis

Pyrus communis

Pyrus communis

Malus sylvestris

Pyrus communis

Fraxinus americana

Pinus strobus

Fraxinus americana

Fraxinus americana

TAG CODE DBH COMMON NAME

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2.5

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<del>10</del>

18

32

<del>15</del>

Cottonwood

Red Mulberry

(Eastern) White Pine

(Eastern) White Pine

River Birch

Black Locust

Blue Spruce

<del>(Eastern) White Pine</del>

Blue Spruce

Cottonwood

Cottonwood

Red Mulberry

Silver Maple

Silver Maple

Box elder

Domestic Apple

(Eastern) White Pine

Red Pine

Cottonwood

Cottonwood

Cottonwood

Cottonwood

Cottonwood

Cottonwood

Red Pine

Red Pine

Red Pine

Red Pine

Red Pine

Red Pine

Cottonwood

Cottonwood

Cottonwood

Blue Spruce

Blue Spruce
Blue Spruce

Blue Spruce

Blue Spruce

Blue Spruce

Blue Spruce

Box elder

Blue Spruce

Blue Spruce

Blue Spruce

Blue Spruce

Blue Spruce

Blue Spruce White Ash

Domestic Apple

**Domestic Apple** 

Silver Maple

Domestic Apple

Cottonwood

Cottonwood

Cottonwood

Cottonwood

Willow

Pear

Domestic Apple

White Ash

White Ash

White Ash

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157

<del>158</del>

<del>160</del>

<del>171</del>

172

<del>174</del>

<del>175</del>

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<del>179</del>

<del>182</del>

CT

PR

WA

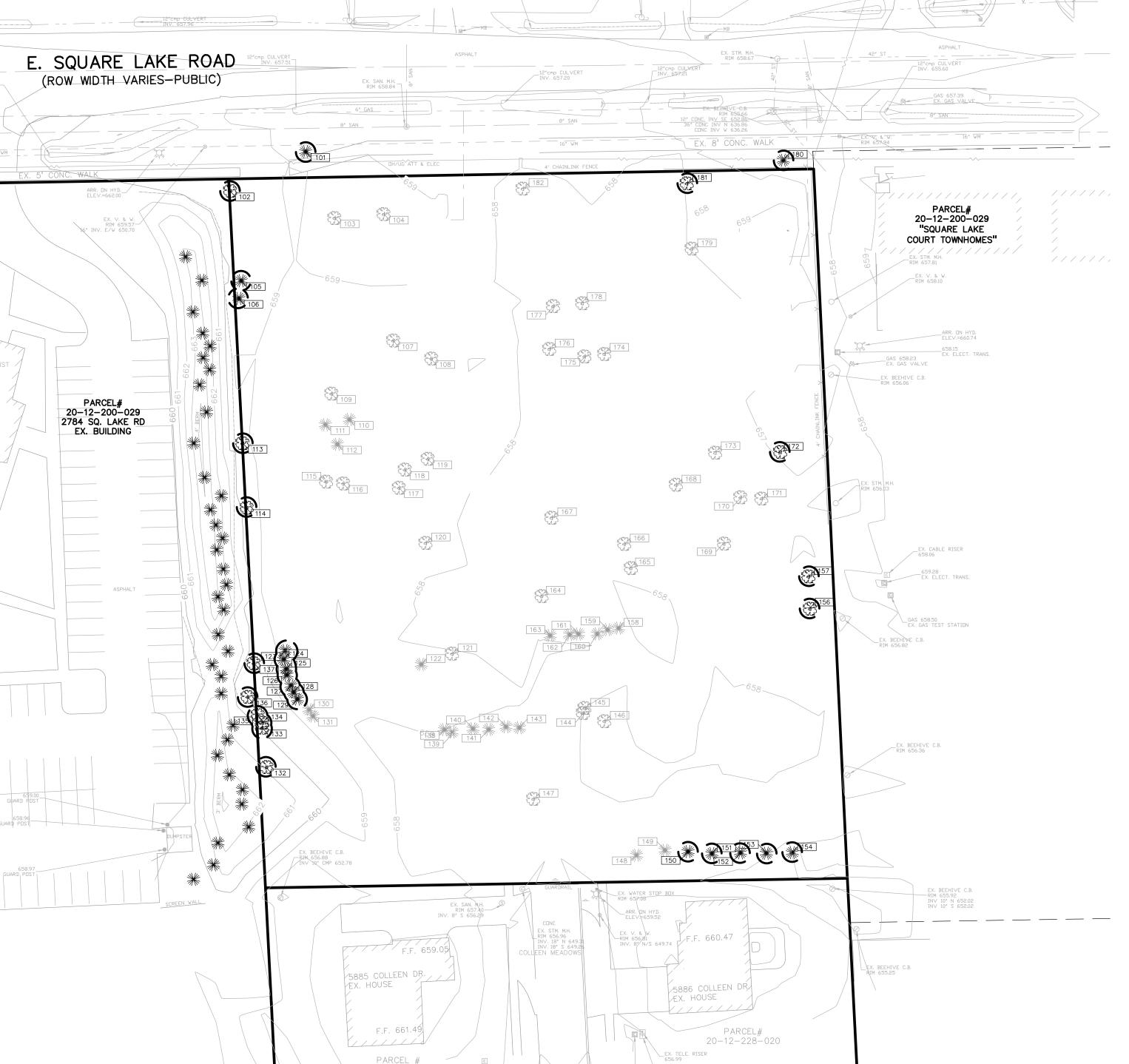
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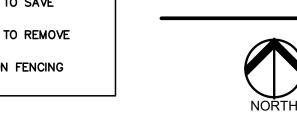
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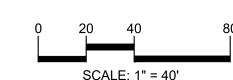
RP

RP

		= EXISTING TREES TO SAVE  = EXISTING TREES TO REMOVE  = TREE PROTECTION FENCING
12°cmp CULVERT INV. 657.96	657.80 EX. U.P.  12'conc CULVERT EX. U.P.  1	12'cmp CULVERT INV. 655.03  12'cmp INV. €
ROW WIDTH VARIES—PUBLIC)	ASPHALT  EX. STM. M.H. RIM 658.67  EX. SAN. M.H. RIM 658.84   6' GAS  8' SAN  8' SAN  EX. STM. M.H. RIM 658.67  EX. SERRIVE C.B. RIM 658.66  EX. STM. M.H. RIM 658.67	ASPHALT  12'cmp CULVERT  INV. 655.60  GAS 657.39  EX. GAS VALVE  8' SAN









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.

CLIENT

GOLDEN HOMES

48661 HAYES ROAD
SHELBY TWP, MICHIGAN

PROJECT TITLE

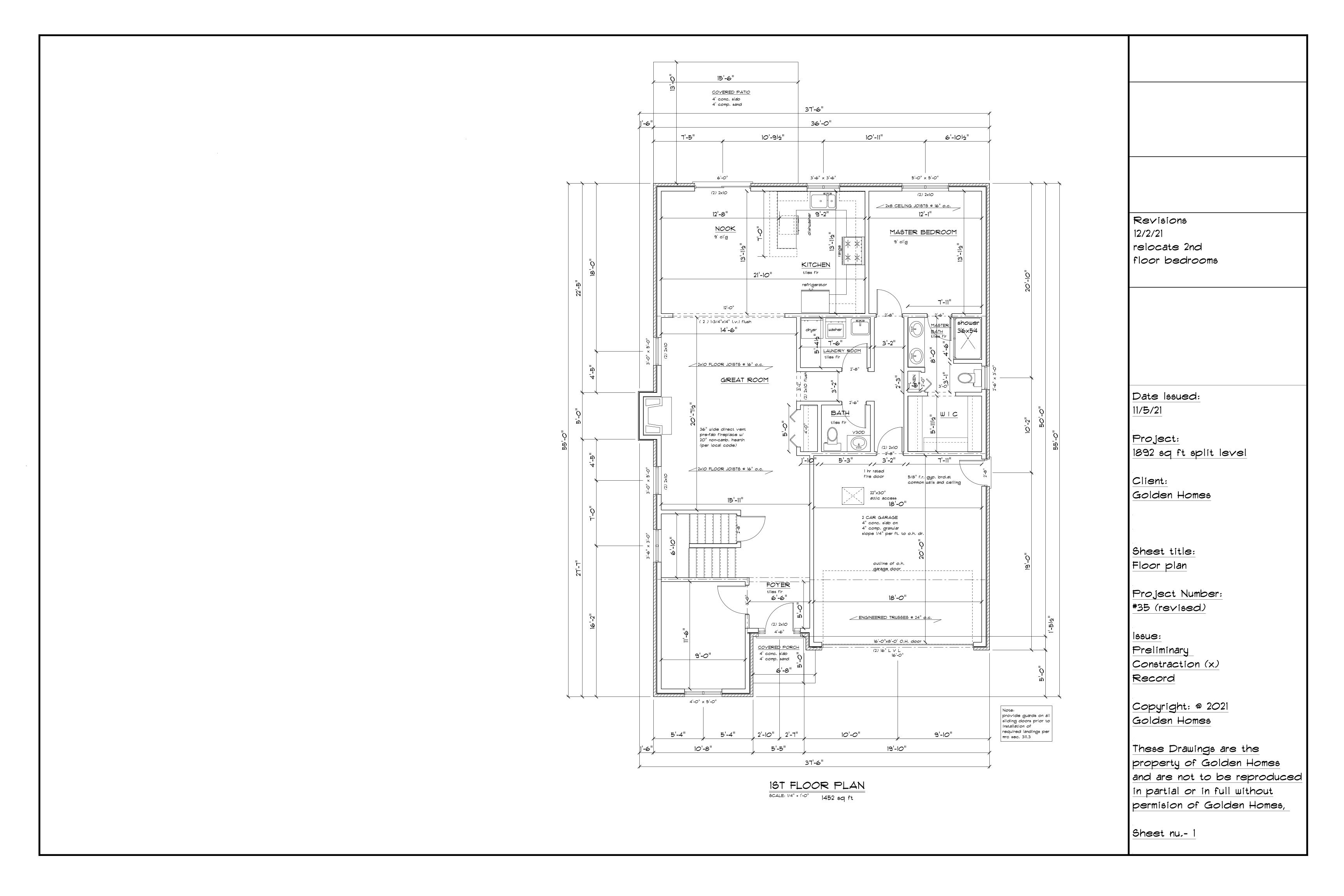
GOLDEN VILLAS

EAST SQUARE LAKE ROAD
CITY OF TROY, MICHIGAN

ORIGINAL ISSUE DATE:
DECEMBER 22, 2021

TREE
PRESERVATION
PLAN

PEA JOB NO. 2021-0627
P.M. JBT
DN. TMK
DES. TMK
DRAWING NUMBER:



roof design loads snow : 30 p.s.f. gyp. bd. : 10 p.s.f. dead load : 7 p.s.f. total load : 47 p.s.f.

floor design loads live load : 40 p.s.f. dead load : 10 p.s.f. total load : 50 p.s.f.

Note:
all windows to have low e glass.

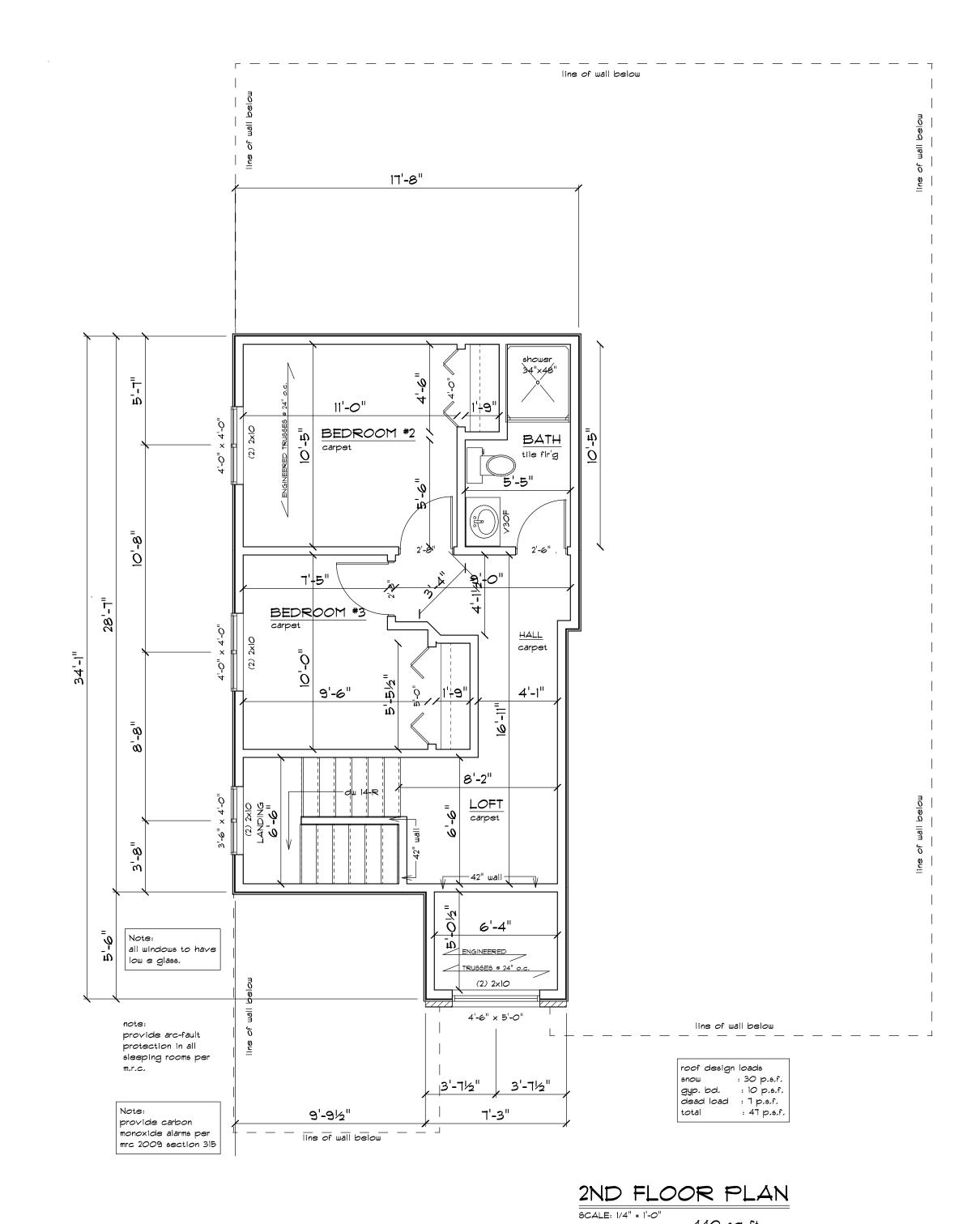
Note:
provide carbon
monoxide alarms per
mrc 2009 section 315

Note:
air leakage test to be provided per muec
2009 sec. 402.4.

structural post note
(1) 6x6 solid bearing ext.
unless
noted otherwise (typ.)

Square Footage

first floor: 599 sq. ft.
second floor: 553 sq ft
total: 1152 sq ft



440 sq ft

Revisions 12/2/21

relocate bedrooms

Date Issued:

11/5/21

Project:
1892 sq ft split level

Client:

Golden Homes

Sheet title: 2nd Floor plan

Project Number: #35 (revised)

lssue:
Preliminary
Constraction (x)

Record

Copyright: @ 2021 Golden Homes

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Sheet nu.- 2

roof design loads snow : 30 p.s.f. gyp. bd. : 10 p.s.f. dead load : 7 p.s.f. total load : 47 p.s.f.

floor design loads
live load : 40 p.s.f.
dead load : 10 p.s.f.
total load : 50 p.s.f.

Note: all windows to have low e glass.

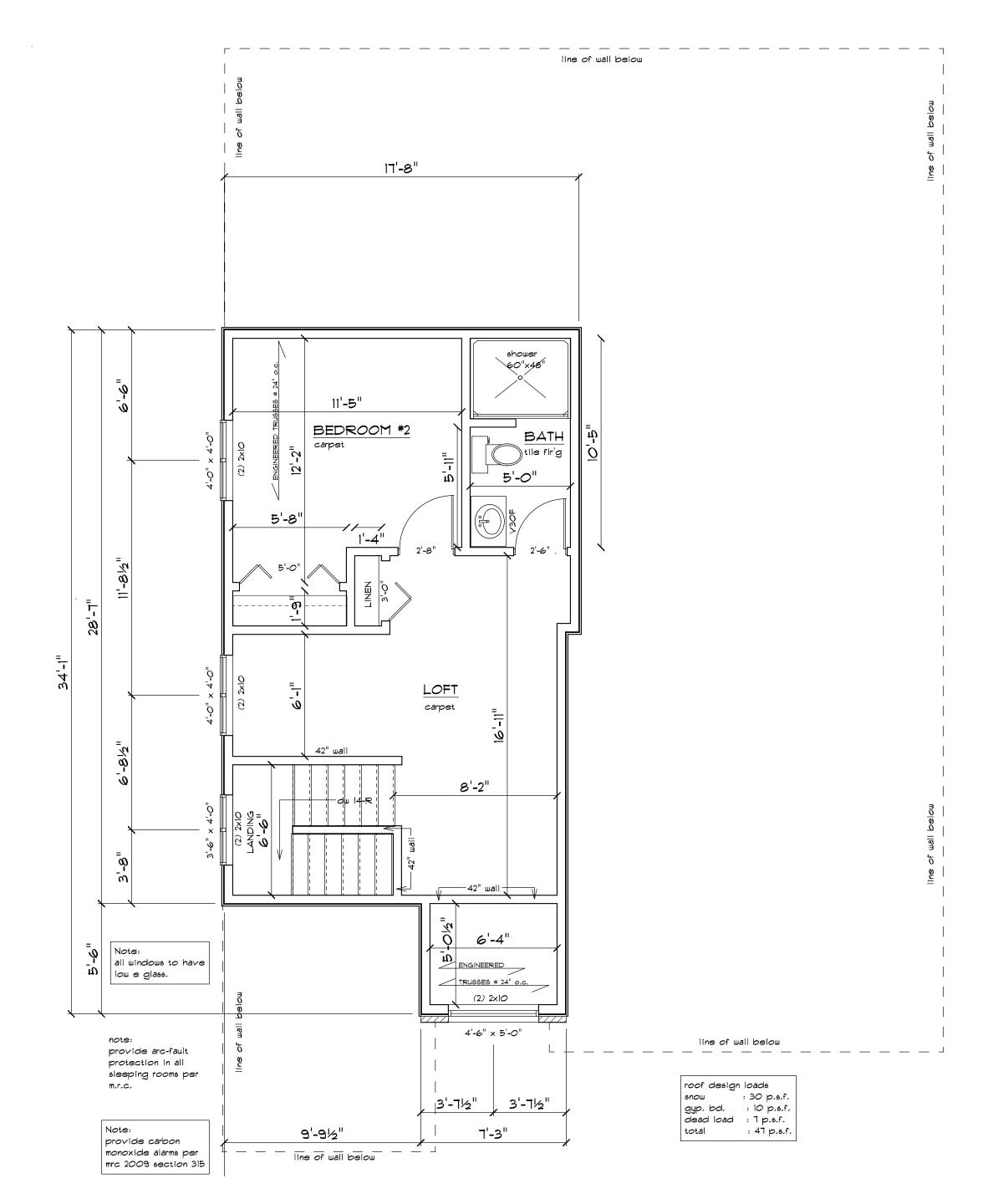
Note:
provide carbon
monoxide alarms per
mrc 2009 section 315

Note:
air leakage test to be
provided per muec
2009 sec. 402.4.

structural post note
(1) 6x6 solid bearing ext.
unless
noted otherwise (typ.)

Square Footage

first floor: 599 sq. ft. second floor: 553 sq ft total: 1152 sq ft



2ND FLOOR PLAN

SCALE: 1/4" = 1'-0"

440 sq ft

Revisions 12/2/21 relocate bedrooms

Date Issued: 11/5/21

Project:
1892 sq ft split level

Client:
Golden Homes

.

Sheet title: 2nd Floor plan

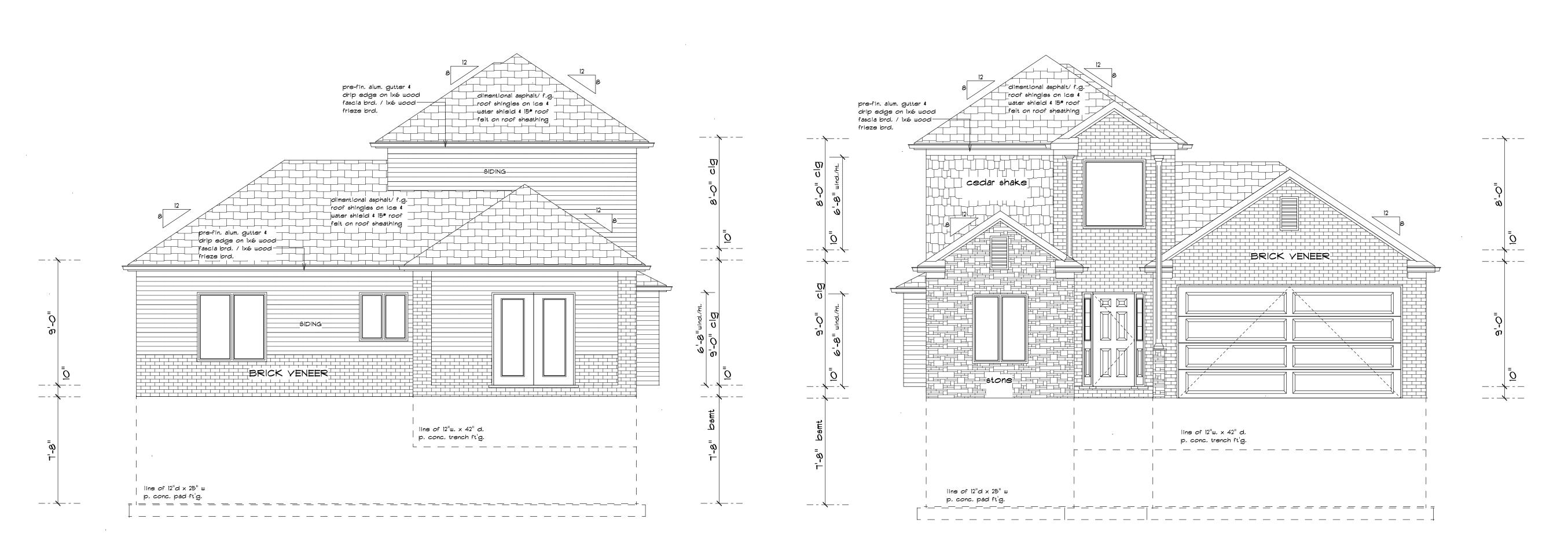
Project Number: #35 (revised)

| lssue:
| Preliminary |
| Constraction (x) |
| Record

Copyright: @ 2021 Golden Homes

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Sheet nu.- 2



REAR ELEVATION

GCALE: 1/4" = 1'-0"

FRONT ELEVATION SCALE: 1/4" = 1'-0"

Revisions Date Issued: 11/5/21

Project:

1892 sq ft split level

Client: Golden Homes

Sheet title: Front Elev.

Project Number:

Issue: Preliminary Constraction (x) Record

Copyright: @ 2021 Golden Homes

These Drawings are the property of Golden Homes and are not to be reproduced in partial or in full without permision of Golden Homes,

Sheet nu.-

DATE: May 6, 2022

TO: Planning Commission

FROM: R. Brent Savidant, Community Development Director

SUBJECT: PRELIMINARY SITE PLAN REVIEW (SP JPLN2022-0002) – Proposed Norton

and Quill Site Condominium, Northwest corner of Norton Street and Quill Creek Drive (PIN 88-20-03-251-043 & 88-20-03-251-044), Section 3, Currently Zoned R-

1B (One Family Residential) District.

The petitioner Mauro Engineering submitted the above referenced Preliminary Site Plan application for a 4-unit Site Condominium, comprised of one family detached homes. The site is 1.786 acres in area. The Planning Commission is the approval authority for this item.

The attached report prepared by Carlisle/Wortman Associates, Inc. (CWA), the City's Planning Consultant, summarizes the project. CWA prepared the report with input from various City departments including Planning, Engineering, Public Works and Fire. City Management supports the findings of fact contained in the report and the recommendations included therein.

#### Attachments:

- 1. Maps
- 2. Report prepared by Carlisle/Wortman Associates, Inc.
- 3. Preliminary Site Plan Application

G:\SITE PLANS\SP JPLN2022-0002 NORTON & QUILL\PC Memo 2022 05 10.docx

#### PROPOSED RESOLUTION

PRELIMINARY SITE PLAN REVIEW (SP JPLN2022-0002) - Proposed Norton and Quill Site Condominium, Northwest corner of Norton Street and Quill Creek Drive (PIN 88-20-03-251-043 & 88-20-03-251-044), Section 3, Currently Zoned R-1B (One Family Residential) District.

#### Resolution # PC-2022-05-

Moved by: Support by:

**RESOLVED**, That Preliminary Site Condominium Approval, pursuant to Article 8 and Section 10.02 of the Zoning Ordinance, as requested for Norton and Quill Site Condominium, 4 units/lots, Northwest corner of Norton Street and Quill Creek Drive (PIN 88-20-03-251-043 & 88-20-03-251-044), Section 3, approximately 1.786 acres in size, Currently Zoned R-1B (One Family Residential) District, be granted, subject to the following:

- 1. Provide tree survey and mitigation requirements.
- 2. Provide easement for 6443 Norton for City review.
- 3. Submit revised plan with 45-foot rear setbacks.
- 4. Have landscape plan prepared by licensed Landscape Architect.

  5. Provide elevations of all four sides and provide materials.

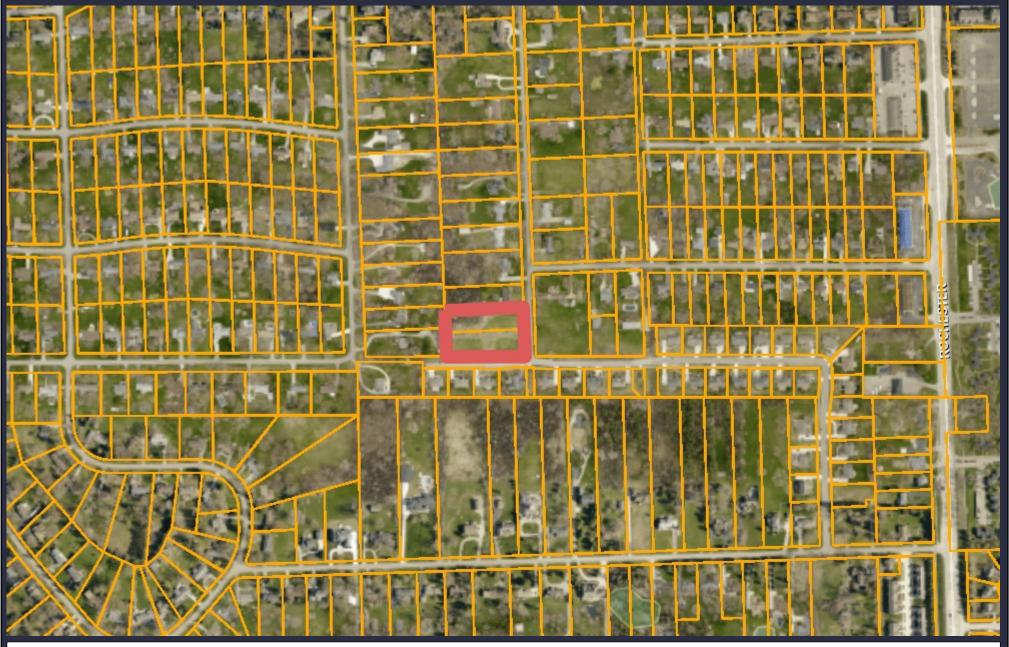
5. Provide elevations of all four sides and provide materials.	
	) or
(denied, for the following reasons:	) or
(postponed, for the following reasons:	)
Yes: Absent:	

**MOTION CARRIED** 

G:\SITE PLANS\SP JPLN2022-0002 NORTON & QUILL\Proposed PC Resolution 2022 05 10.doc

# TROY

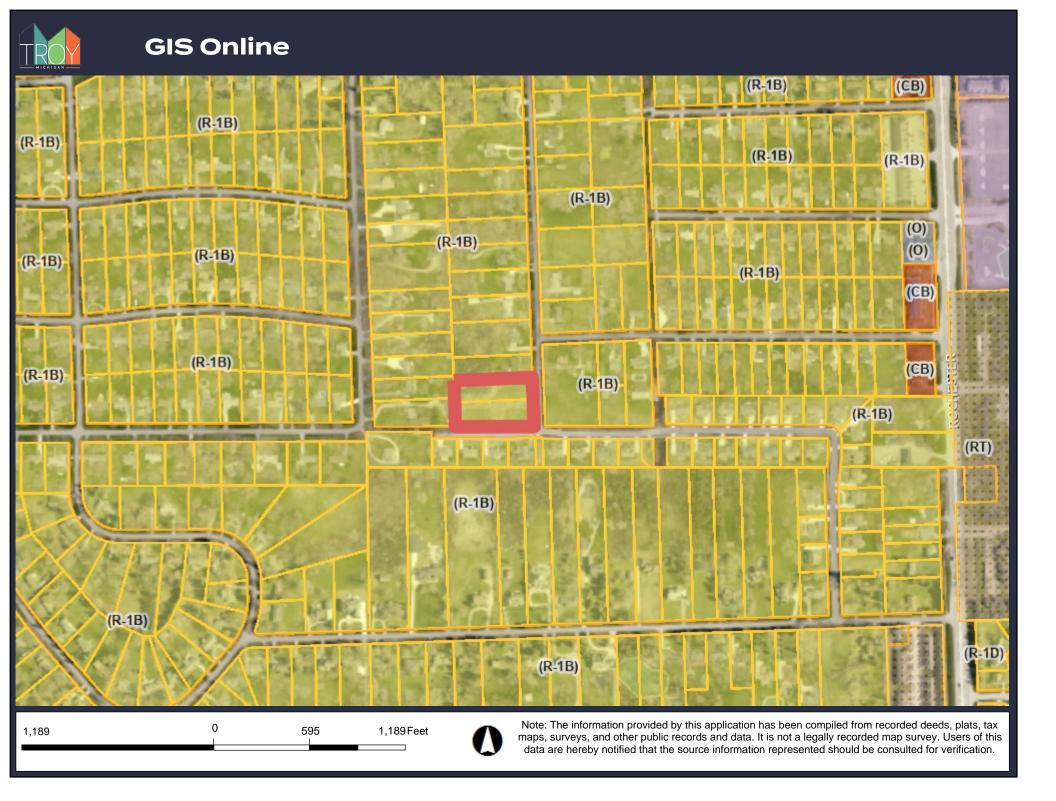
#### **GIS Online**



1,189 0 595 1,189 Feet



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.





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

Date: May 6, 2022

# Preliminary Site Plan Approval for a Site Condominium Plan For City of Troy, Michigan

**Applicant:** Mauro Engineering (owner Aaron O'Connor)

Project Name: Norton and Quill Site Condominium

Plan Date: June 6, 2020

**Location:** 6407 Norton (NW corner of Norton and Quill Creek Drive)

**Zoning:** R-1B, One-Family Residential

Action Requested: Preliminary Site Condominium Approval

### **PROJECT AND SITE DESCRIPTION**

The applicant is requesting approval to construct a four (4) single family detached site condominium project. The proposed four (4) lots will be created from two (2) existing parcels which total approximately 1.75 acres. The two existing parcels are currently vacant. Please note that there is one (1) additional lot that will be used for stormwater detention. The property is zoned R-1B, One-Family Residential, and the proposed site condominium use is permitted by-right. Please note that the existing home at 6443 Norton will continue to access their home through one of the newly created lots.

Two lots will be accessed off of Norton and two off Quill Creek Drive. Sidewalks will be added in front of units on both Norton and Quill Creek Drive.

### Location of subject site:



### Size of subject property:

+/-77,800 sq/ft in area

### Current use of subject property:

Vacant

### Proposed use of subject site:

The proposed use is single-family residential site condominium of four (4) lots for homes and one (1) for detention.

### **Current Zoning:**

The property is currently zoned R-1B, One-Family Residential

### Surrounding Property Details:

<u>Direction</u>	Zoning	<u>Use</u>	
North	R-1B, One-family Residential District	Single-family home	
South	R-1B, One-family Residential District	Single-family home	
East	R-1B, One-family Residential District	Single-family home	
West	R-1B, One-family Residential District	Single-family home	

### **NATURAL RESOURCES**

Topography - The grading plan shows gentle slopes.

<u>Woodlands/Landmark Trees</u> – There is an existing area of trees along the northern and western property line. The applicant did not provide a tree survey but noted on the plans that "No Woodland and Landmark Trees Exist on Site." They note that brush and small healthy cottonwoods under 6-inches will be removed. Based on the location of the proposed detention pond and the required grading, we think most or all trees on site will be removed. A tree survey should be provided to confirm if tree mitigation is required.

<u>Wetlands/Flood Plain</u> – There are no wetlands on the site. The site does not lie within the 100-year floodplain.

**Items to be Addressed:** Provide tree survey and mitigation requirements

### SITE ARRANGEMENT, ACCESS, AND CIRCULATION

All lots meet the minimum lot area for the R-1B District, are regular in shape, allow for adequate setbacks, and permit sufficient space for the homes and ingress and egress for each unit.

Two (2) lots will be accessed of Norton and two (2) off Quill Creek Drive. Sidewalks will be added in front of units on both Norton and Quill Creek Drive. A stormwater detention facility is located in the northwest corner of the site. The stormwater detention facility is accessed via an easement and 12-foot wide driveway that runs between the two houses that front on Quill Creek. The driveway will be required to be maintained by the homeowners association. The detention facility and accessed has been reviewed by the engineering and public works department and they don't raise any issues.

6443 Norton will continue to access their home through one of the newly created lots. While unusual it is permitted provided that an easement is provided for 6443 Norton to use a portion of the new lot for access. The easement shall be provided to the City for review and recorded by the applicant.

**Items to be Addressed:** 1). Provide easement for 6443 Norton for City review; 2). Once review of easement is complete, applicant shall record with Oakland County.

### AREA, WIDTH, HEIGHT, SETBACKS

### **Required and Provided Dimensions:**

Table 4.06.C establishes the requirements for the R-1B District. The requirement and the proposed dimensions are as follows:

	Required	Provided	Compliance
Minimum Lot Area	15,000 sq ft	15,000 sq ft (Min)	Complies
Minimum Lot Width	100 ft	100 ft (Min)	Complies
Setbacks			
Front	40 ft	40 ft	Complies

Side (Least)	10 ft	10 ft	Complies
Side (Total)	30 ft	30 ft	Complies
Rear	45 ft	44.96 ft	Does not complies
			Will be reviewed
Maximum Building Height	30 ft, 2.5 story	Under 30 ft	with building
			permits
			Will be reviewed
Minimum Floor Area per Unit	1,200 sq ft	Over 1,200 sq. ft (Min)	with building
			permits
			Will be reviewed
Maximum Lot Coverage	30%	30% (Max)	with building
			permits

The rear yards of two lots are 44.96 feet, where 45-feet is required. This can easily be rectified in a resubmittal.

Items to be Addressed: Submit revised plan with 45-foot rear setbacks.

### **LANDSCAPING**

Site condominium and subdivision landscaping are regulated by Section 13.02.F.2.

	Required	<u>Provided</u>	<u>Compliance</u>
Public Drive: 1 tree per 50 lineal feet	582 If / 50 = 12 trees	15 trees	Complies
Stormwater Detention Pond	Seeded	Seeded	Complies
Mitigation	Unknown	Unknown	Unknown

Applicant proposes to plant fifteen 2.5-inch Oaks. Landscape Plan not stamped by Landscape Architect.

**Items to be Addressed:** 1). Provide tree survey and mitigation requirements; and 2). Have plan prepared by licensed Landscape Architect.

### FLOOR PLANS AND ELEVATIONS

The applicant submitted two proposed plans: a 3,300 sq/ft colonial and a 2,400 sq/ft ranch. The applicant has only provided the front rendering of the two home types. Materials are not indicated. The applicant should provide elevations of all four sides and provide materials.

**Items to be Addressed:** Provide elevations of all four sides and provide materials.

### **SUBMITTAL REQUIREMENTS**

Section 10.02 sets forth the intent and standards for site condominium projects.

1. Intent: The intent of this Section is to regulate site condominium projects to ensure compliance with this Ordinance and other applicable standards of the City, to provide procedures and standards for review and approval or disapproval of such developments, and to insure that each project will be consistent and compatible with other developments in the community.

#### The applicant shall provide the additional information as requested.

Section 10.02.E. regulates physical improvements associated with condominium projects. It requires the following:

1. Principal access and circulation through a site condominium shall be provided by public streets constructed to City standards, within sixty (60) foot wide rights-of-way. Secondary access and circulation through such developments, on which some of the residential parcels may have their sole frontage, may be provided by twenty-eight (28) foot wide streets constructed to City public street standards, within forty (40) foot private easements for public access.

#### The newly create lots will be accessed from existing City right-of-way requirements.

2. Principal access to site condominium of five (5) acres or less in area may be provided by way of twenty-eight (28) foot wide streets constructed to City public street standards, within forty (40) foot private easements for public access, when in the opinion of the City Council the property configuration is such that the provision of conforming dwelling unit parcels is impractical.

### The newly create lots will be accessed from existing City right-of-way requirements.

3. All entrances to major or secondary thoroughfares shall include deceleration, acceleration and passing lanes as required by Engineering Standards of the City of Troy.

#### Subject to approval by the City engineering department.

4. Sidewalks shall be constructed, in accordance with City Standards, across the frontage of all dwelling unit parcels. Utilities shall be placed within street rights-of-way, or within easements approved as to size and location by the City Engineer.

#### Five (5) foot wide sidewalks will be provided across the frontage of all parcels.

5. All shall be served by public water, sanitary sewer, storm sewer and detention/retention systems constructed to City standards, at the expense of the developer. Easements over these systems shall be conveyed and recorded before occupancy permits are issued for dwelling units.

## The applicant has proposed full utilities, but all proposed configurations are subject to approval by the City engineering department.

As noted above, all condominium projects are subject to Section 8.05.A.7, which establishes the requirements for a preliminary site plan submittal. Three additional requirements are specifically identified for residential projects. The three additional requirements, identified in 8.05.A.7.o, include:

Norton and Quill May 6, 2022

i. Calculation of the dwelling unit density allowable and a statement of the number of dwelling units, by type, to be provided.

The maximum density is 2.9 units per acre. The site complies at 4 units.

ii. Topography on site and fifty (50) feet beyond, drawn at two (2) foot contour intervals, with existing drainage courses, flood plains, wetlands, and tree stands indicated.

### Satisfied.

iii. The typical floor plans and elevations of the proposed buildings, with building height(s).

The maximum allowable building height is 2.5 stories or 30 feet. Proposed building height will be confirmed through building permit reviews.

Items to be Addressed: None.

### **RECOMMENDATIONS**

The Planning Commission can either allow the applicant to address the following items as part of the Final Site Plan Review or the item can be postponed until those items are addressed:

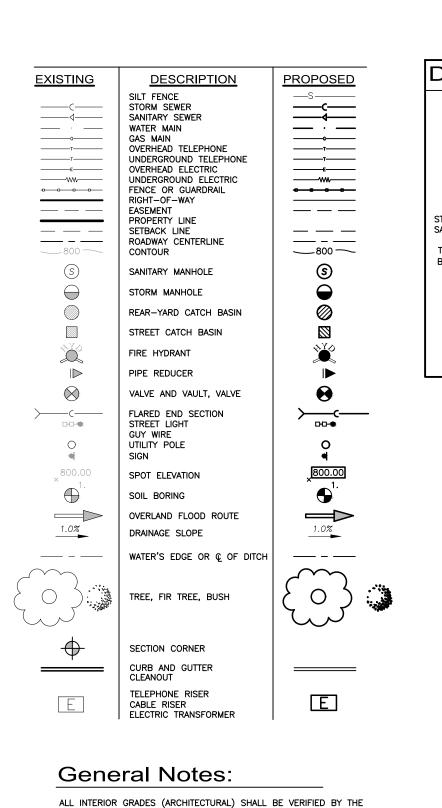
- 1. Provide tree survey and mitigation requirements.
- 2. Provide easement for 6443 Norton for City review.
- 3. Submit revised plan with 45-foot rear setbacks.
- 4. Have landscape plan prepared by licensed landscape architect.
- 5. Provide elevations of all four sides and provide materials.

CARLISLE/WORTMAN ASSOC., INC.

Bin R. Cal

Benjamin R. Carlisle, AICP, LEED AP

Principal



### Description Legend: TD - TOP OF DRIVE ME - MATCH EXISTING FINAL (FINISHED) GRADE - SWALE HIGH POINT CATCH BASIN GARAGE FINISH FLOOR FIRST FINISH FLOOR BSMT. FINISH FLOOR STORM MANHOLE SANITARY MANHOLE BUILDING TOP OF WALL BOTTOM OF WALL TOPOGRAPHY SPOT GRADE EXISTING TREE BASEMENT UNEXCAVATED EDGE OF PAVEMENT W/B - WATER BOX IF - IRON FOUND MF - MONUMENT FOUND

## Site Info CURRENT ZONE: R-1B SETBACKS: LOT SQUARE FOOTAGE: 15,000 SF

BUILDING HEIGHT: 2.5 STORIES, 30' LOT COVERAGE: 30% MAX.

BUILDER, ARCHITECT AND/OR CONTRACTOR PRIOR TO CONSTRUCTION. ALL TRADES MUST USE THE ARCHITECTURAL PLANS OF RECORD FOR ALL PROPOSED GRADES ON THIS PLAN WERE OBTAINED FROM THE SUBDIVISION MASTER GRADE PLAN, GRADE CHANGES ARE SUBJECT TO

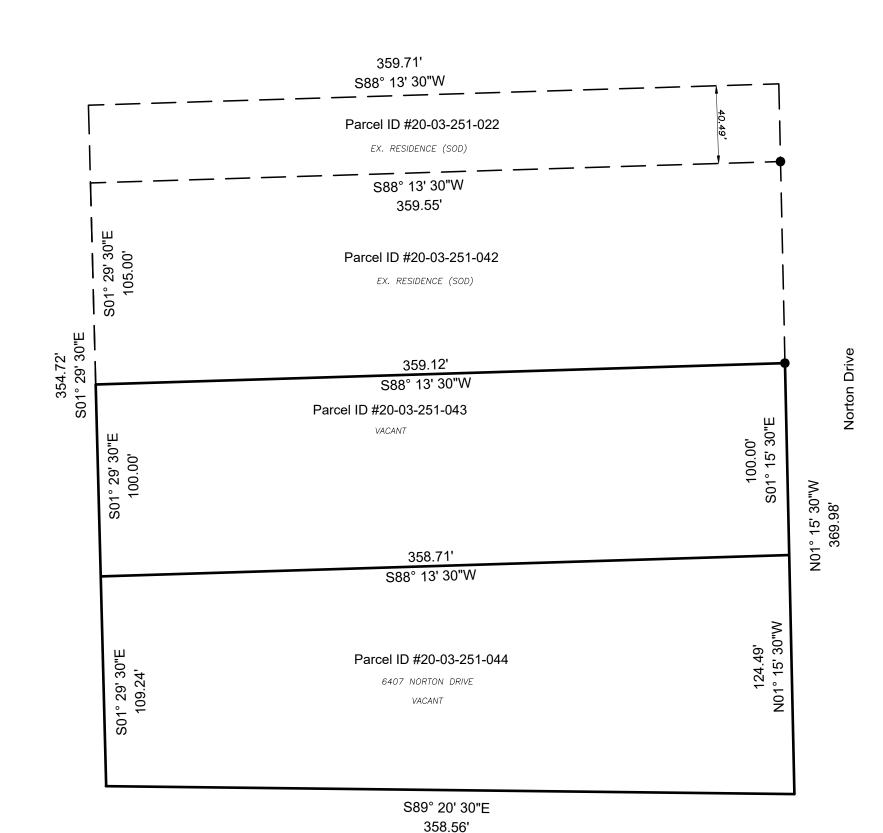
FIELD VERIFICATIONS AND TOPOGRAPHIES CONDUCTED AT THE TIME OF OWNER, BUILDER AND/OR ANY CONTRACTORS SHALL COMPLY WITH ALL LOCAL CODES AND/OR ORDINANCES, APPROVAL OF THIS PLAN DOES UTILITY LOCATIONS WERE OBTAINED FROM MUNICIPAL OFFICIALS AND

THE COMPLETENESS, OR EXACTNESS OF LOCATION. THIS SURVEY MAY NOT SHOW ALL EASEMENTS OF RECORD UNLESS AN UPDATED TITLE POLICY IS FURNISHED TO THE SURVEYOR BY THE OWNER

## Legal Description:

PARCEL: 20-03-251-044 LOT(S) 51, EXCLUDING NORTH 245.49 FEET OF BASSET & SMITH FLOWING SPRING ACRES ACCORDING TO THE PLAT RECORDED IN LIBER

PARCEL: 20-03-251-043 THE SOUTH 100 FEET OF THE NORTH 245.49 FEET OF LOT(S) 51 OF BASSET & SMITH FLOWING SPRING ACRES ACCORDING TO THE PLAT RECORDED IN LIBER 37 OF PLATS, PAGE 9 OF OAKLAND COUNTY RECORDS



## Quill Creek Drive

Lot 51 Bassett & Smith Flowing Spring Acres

SCALE: 1" = 50'

## Preliminary Site Condominium Plan

SECTION 3 T.2 N., R. 11 E., CITY OF TROY, OAKLAND COUNTY, MICHIGAN

Wetland and Landscaping Note:

-NO REGULATED WETLANDS ON SITE -GREATER THAN 500 FEET FROM AN INLAND LAKE, POND, OR STREAM. -LESS THAN 5 ACRES IN SIZE

Legend

FOUND IRON

N88° 13' 30"E

100.00'

Unit 1

15,029 SF

S89° 20' 30"E PROPOSED RIGHT OF WAY

O - SET IRON

PARCEL ID #20-03-251-036 SOD

EX. HOUSE #6408

EX. 5' CONC. WALK

TREE SURVEY AND WETLAND REVIEW DONE BY DEREK STRATELAK: LICENSED LANDSCAPE ARCHITECT AND WETLAND SPECIALIST

S88° 13' 30"W

N88° 13' 30"E

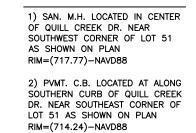
100.00'

Unit 2

15,449 SF

100.00'

S89° 20' 30"E



Benchmark

Sheet Index:

5) PRELIMINARY LANDSCAPE PLAN

) PRELIMINARY GRADING PLAN

7) PRELIMINARY UTILITY PLAN

8) PRELIMINARY FLOOR PLANS 9) PRELIMINARY ELEVATIONS

2) TOPOGRAPHIC SURVEY AND EXISTING CONDITIONS

4) PRELIMINARY TREE PRESERVATION PLAN/TREE INVENTORY

1) BOUNDARY SURVEY

SCALE 1"=20'

GRAVEL DRIVEWAY

158.74'

N88° 13' 30"E

N88° 13' 30"E

159.08'

Unit 4

15,894 SF

Unit 3

S89° 20' 30"E 358.56'

EX. 5' CONC. WALK

3) PRELIMINARY SITE PLAN



Location map

**Onsite Contact:** 

AARON O'CONNOR

(586) 524-2855

PROJECT LOCATION:

CITY OF TROY 06-10-2020

AARON O'CONNOR

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WILL BE SUBJECT TO

**CIVIL DAMAGES AND** 

**PROSECUTION** 

SCALE: 1" = 20'

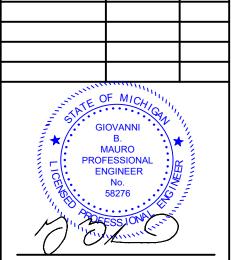
DR. OUND, 407 9





	OF UNDERGROUND FACILITI	ies 💚
PRELIMINARY 🔯	CONSTRUCTION	AS-BUILT
Drawn By:	G.M.	
Checked By:	S.M.	
Approved By:	S.M.	

Approved By:	S.M.	
Revisions:	Date:	Ву:



SIMONE B. MAURO, P.E. - No. 30592 GIOVANNI B. MAURO, P.E. - No. 58276

16-032

of: **9** 

5.) Assumes no responsibility for house placement designed within 0.5' of approved setbacks.

Mauro Engineering

Mauro Engineering 1.) Assumes no responsibility for given house dimensions. Client must verify dimensions prior to const.

2.) This plan shall not be used to set foundations 3.) Setbacks shown on this plot plan were obtained from the municipality. Since deed restrictions are not supplied by the municipality, the client must verify any special Subdivision restrictions. 4.) Lead locations shown on plan are approx. from approved plans. Contractor to field verify all

48657 Hayes Road Shelby Twp., MI 48315

Visit us at: www.mauroeng.com

Ph: (586) 247-2800 • Fax: (586) 247-2811

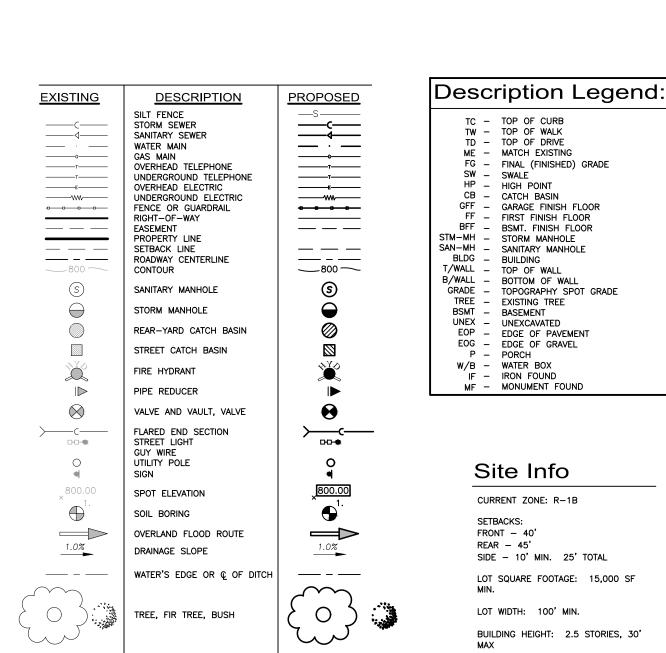
158.41'

S89° 20' 30"E

PROPOSED RIGHT OF WAY

EX. 5' CONC. WALK

6.) No title work given at the time of survey



SECTION CORNER

ALL INTERIOR GRADES (ARCHITECTURAL) SHALL BE VERIFIED BY THE BUILDER, ARCHITECT AND/OR CONTRACTOR PRIOR TO CONSTRUCTION.

ALL TRADES MUST USE THE ARCHITECTURAL PLANS OF RECORD FOR

ALL PROPOSED GRADES ON THIS PLAN WERE OBTAINED FROM THE

SUBDIVISION MASTER GRADE PLAN. GRADE CHANGES ARE SUBJECT T FIELD VERIFICATIONS AND TOPOGRAPHIES CONDUCTED AT THE TIME OF

LOCAL CODES AND/OR ORDINANCES, APPROVAL OF THIS PLAN DOES

UTILITY LOCATIONS WERE OBTAINED FROM MUNICIPAL OFFICIALS AND RECORDS OF UTILITY COMPANIES, AND NO GUARANTEE CAN BE MADE TO THE COMPLETENESS, OR EXACTNESS OF LOCATION.

THIS SURVEY MAY NOT SHOW ALL EASEMENTS OF RECORD UNLESS AN UPDATED TITLE POLICY IS FURNISHED TO THE SURVEYOR BY THE OWNER

NOT RELIEVE ANY PARTIES FROM THOSE COMPLIANCES

**General Notes:** 

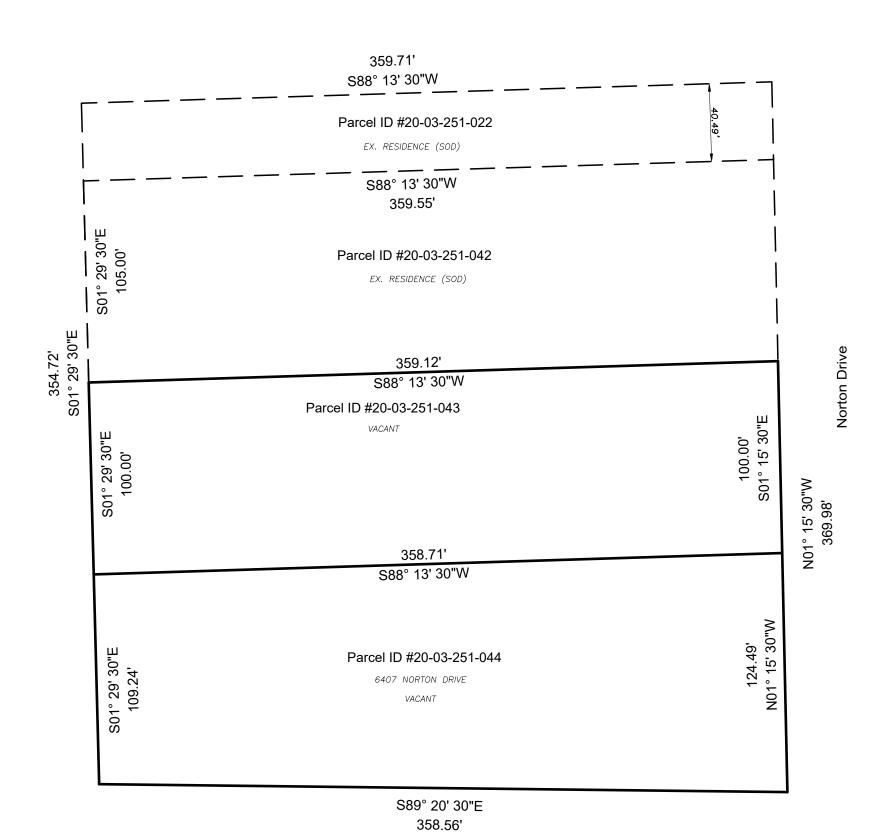
## Legal Description:

LOT COVERAGE: 30% MAX.

PARCEL: 20-03-251-044 OF BASSET & SMITH FLOWING SPRING ACRES ACCORDING TO THE PLAT RECORDED IN LIBER 37 OF PLATS, PAGE 9 OF OAKLAND COUNTY

PARCEL: 20-03-251-043 FEET OF LOT(S) 51 OF BASSET & SMITH FLOWING SPRING ACRES ACCORDING TO THE PLAT RECORDED IN LIBER 37 OF PLATS, PAGE 9 OF OAKLAND COUNTY RECORDS

EX. 5' CONC. WALK



## Quill Creek Drive

Lot 51 Bassett & Smith Flowing Spring Acres SCALE: 1" = 50'

## Preliminary Site Condominium Plan

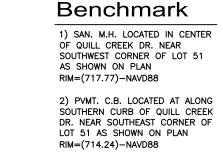
SECTION 3 T.2 N., R. 11 E., CITY OF TROY, OAKLAND COUNTY, MICHIGAN

Wetland and Landscaping Note:

-NO REGULATED WETLANDS ON SITE
-GREATER THAN 500 FEET FROM AN INLAND LAKE, POND, OR STREAM.
-LESS THAN 5 ACRES IN SIZE

TREE SURVEY AND WETLAND REVIEW DONE BY DEREK STRATELAK: LICENSED LANDSCAPE ARCHITECT AND WETLAND SPECIALIST

359.12'



Sheet Index:

5) PRELIMINARY LANDSCAPE PLAN

) PRELIMINARY GRADING PLAN

7) PRELIMINARY UTILITY PLAN

8) PRELIMINARY FLOOR PLANS 9) PRELIMINARY ELEVATIONS

2) TOPOGRAPHIC SURVEY AND EXISTING CONDITIONS

4) PRELIMINARY TREE PRESERVATION PLAN/TREE INVENTORY

1) BOUNDARY SURVEY

SCALE 1"=20'

159.08'

3) PRELIMINARY SITE PLAN

SOUTH BLVD.

**Onsite Contact:** AARON O'CONNOR

(586) 524-2855

AARON O'CONNOR

PROJECT LOCATION: CITY OF TROY

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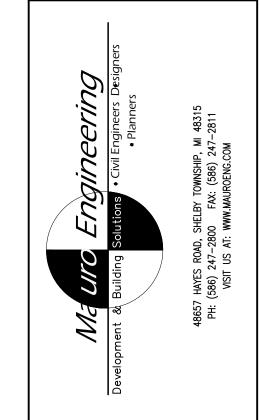
**CIVIL DAMAGES AND** 

PROSECUTION

SCALE: 1" = 20'

06-10-2020

NORTON 6407





Checked By: S.M.

Date:

SIMONE B. MAURO, P.E. - No. 30592 GIOVANNI B. MAURO, P.E. - No. 58276

16-032

2 of: 9

Mauro Engineering 48657 Hayes Road Shelby Twp., MI 48315 Ph: (586) 247-2800 • Fax: (586) 247-2811

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Mauro Engineering 1.) Assumes no responsibility for given house dimensions. Client must verify dimensions prior to const.

5.) Assumes no responsibility for house placement designed within 0.5' of approved setbacks.

EX. 5' CONC. WALK

6.) No title work given at the time of survey

2.) This plan shall not be used to set foundations 3.) Setbacks shown on this plot plan were obtained from the municipality. Since deed restrictions are not supplied by the municipality, the client must verify any special Subdivision restrictions. 4.) Lead locations shown on plan are approx. from approved plans. Contractor to field verify all

N88° 13' 30"E 100.00' 73.82' Unit 1 158.74' 15,029 SF N88° 13' 30"E BUILDING SETBACK LINE (TYP.) EX. HOUSE #6408 — BUILDING SETBACK LINE (TYP.) 100.00' 158.41' S89° 20' 30"E S89° 20' 30"E PROPOSED RIGHT OF WAY

EX. 5' CONC. WALK

### <u>EXISTING</u> SILT FENCE STORM SEWER SANITARY SEWER WATER MAIN \_ . \_ \_ GAS MAIN OVERHEAD TELEPHONE UNDERGROUND TELEPHONE \_\_\_\_E\_\_ OVERHEAD ELECTRIC ———Е——— UNDERGROUND ELECTRIC \_\_\_\_w\_\_\_ FENCE OR GUARDRAIL RIGHT-OF-WAY PROPERTY LINE SETBACK LINE \_\_\_\_\_\_ SANITARY MANHOLE STORM MANHOLE REAR-YARD CATCH BASIN STREET CATCH BASIN PIPE REDUCER VALVE AND VAULT, VALVE <u></u>C—— FLARED END SECTION STREET LIGHT UTILITY POLE 800.00 SPOT ELEVATION • SOIL BORING OVERLAND FLOOD ROUTE DRAINAGE SLOPE WATER'S EDGE OR @ OF DITCH SECTION CORNER

### Description Legend: TC - TOP OF CURB TW - TOP OF WALK TD - TOP OF DRIVE ME - MATCH EXISTING FINAL (FINISHED) GRADE - SWALE HIGH POINT CATCH BASIN GARAGE FINISH FLOOR FIRST FINISH FLOOR BSMT. FINISH FLOOR STORM MANHOLE SANITARY MANHOLE BUILDING TOP OF WALL BOTTOM OF WALL TOPOGRAPHY SPOT GRADE EXISTING TREE BASEMENT UNEXCAVATED EDGE OF PAVEMENT W/B - WATER BOX IF - IRON FOUND MF - MONUMENT FOUND

## Site Info

CURRENT ZONE: R-1B SETBACKS: LOT SQUARE FOOTAGE: 15,000 SF BUILDING HEIGHT: 2.5 STORIES, 30' LOT COVERAGE: 30% MAX.

## **General Notes:**

ALL INTERIOR GRADES (ARCHITECTURAL) SHALL BE VERIFIED BY THE BUILDER, ARCHITECT AND/OR CONTRACTOR PRIOR TO CONSTRUCTION. ALL TRADES MUST USE THE ARCHITECTURAL PLANS OF RECORD FOR

ALL PROPOSED GRADES ON THIS PLAN WERE OBTAINED FROM THE SUBDIVISION MASTER GRADE PLAN. GRADE CHANGES ARE SUBJECT TO FIELD VERIFICATIONS AND TOPOGRAPHIES CONDUCTED AT THE TIME OF

OWNER, BUILDER AND/OR ANY CONTRACTORS SHALL COMPLY WITH ALL LOCAL CODES AND/OR ORDINANCES, APPROVAL OF THIS PLAN DOES

NOT RELIEVE ANY PARTIES FROM THOSE COMPLIANCES UTILITY LOCATIONS WERE OBTAINED FROM MUNICIPAL OFFICIALS AND

RECORDS OF UTILITY COMPANIES, AND NO GUARANTEE CAN BE MADE TO THE COMPLETENESS, OR EXACTNESS OF LOCATION. THIS SURVEY MAY NOT SHOW ALL EASEMENTS OF RECORD UNLESS AN UPDATED TITLE POLICY IS FURNISHED TO THE SURVEYOR BY THE OWNER

## **Open Space and Landscape Notes:**

GROSS SITE AREA = 77,797 S.F. NET SITE AREA = 77,797 S.F.

GROSS BUILDING AREA = 20,902 S.F. NET BUILDING AREA = 20,902 S.F.

OPEN SPACE REQUIREMENT = 20% OF GROSS SITE AREA = 15,557 S.F.

PROVIDED OPEN SPACE AREA = 56,895 S.F. STATEMENT OF INTENT: AREA SHALL REMAIN PERPETUALLY IN AN UNDEVELOPED STATE OF

LANDSCAPE AREA REQUIREMENT = 15% OF SITE AREA = 11,670 S.F.

COVER, AND GRASSES INCLUDED IN THE YARD AREA

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## Preliminary Site Condominium Plan

SECTION 3 T.2 N., R. 11 E., CITY OF TROY, OAKLAND COUNTY, MICHIGAN

Benchmark 1) SAN. M.H. LOCATED IN CENTER OF QUILL CREEK DR. NEAR SOUTHWEST CORNER OF LOT 51 AS SHOWN ON PLAN

2) PVMT. C.B. LOCATED AT ALONG SOUTHERN CURB OF QUILL CREEK DR. NEAR SOUTHEAST CORNER OF LOT 51 AS SHOWN ON PLAN

RIM=(714.24)-NAVD88

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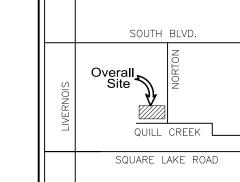
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Location map

AARON O'CONNOR PROJECT LOCATION:

CITY OF TROY

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SCALE:

1" = 20'

12-10-2020

DR NOR \RY 407 9





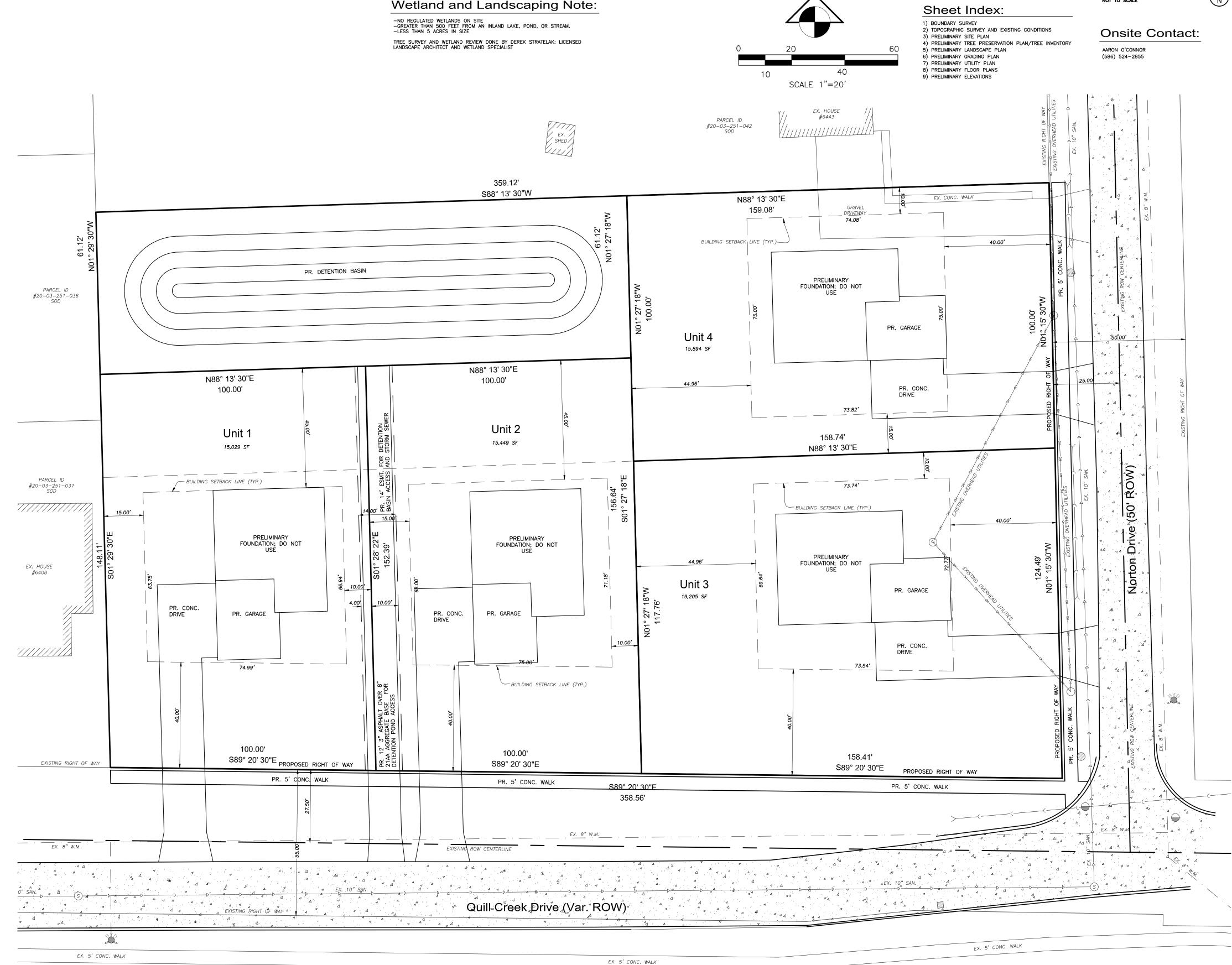
ELIMINARY 🔀 CONSTRUCTION 🗌 G.M. Checked By: S.M. Approved By: S.M.

Date:

SIMONE B. MAURO, P.E. - No. 30592 GIOVANNI B. MAURO, P.E. - No. 58276

16-032

of: **9** 



### SILT FENCE STORM SEWER SANITARY SEWER WATER MAIN \_ . \_ \_ GAS MAIN OVERHEAD TELEPHONE UNDERGROUND TELEPHONE ——Е—— UNDERGROUND ELECTRIC FENCE OR GUARDRAIL RIGHT-OF-WAY SETBACK LINE \_\_\_\_\_\_ SANITARY MANHOLE STORM MANHOLE REAR-YARD CATCH BASIN STREET CATCH BASIN PIPE REDUCER VALVE AND VAULT, VALVE <u></u>C—— FLARED END SECTION STREET LIGHT UTILITY POLE SPOT ELEVATION • SOIL BORING OVERLAND FLOOD ROUTE DRAINAGE SLOPE WATER'S EDGE OR @ OF DITCH SECTION CORNER

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LOT(S) 51, EXCLUDING NORTH 245.49 FEET

ACCORDING TO THE PLAT RECORDED IN LIBER 37 OF PLATS, PAGE 9 OF OAKLAND COUNTY

THE SOUTH 100 FEET OF THE NORTH 245.49

PLAT RECORDED IN LIBER 37 OF PLATS, PAGE

FEET OF LOT(S) 51 OF BASSET & SMITH

FLOWING SPRING ACRES ACCORDING TO THE

PARCEL: 20-03-251-044

PARCEL: 20-03-251-043

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## Woodland and Landmark Tree Note:

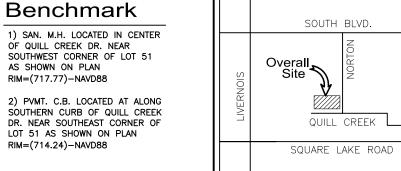
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## Preliminary Site Condominium Plan

SECTION 3 T.2 N., R. 11 E., CITY OF TROY, OAKLAND COUNTY, MICHIGAN



Sheet Index:

Mauro Engineering

Mauro Engineering

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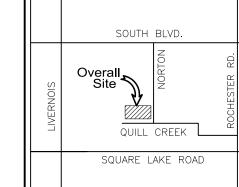
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1) BOUNDARY SURVEY



Location map

AARON O'CONNOR

PROJECT LOCATION:

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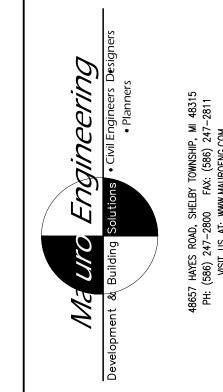
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06-10-2020

SCALE: 1" = 20'

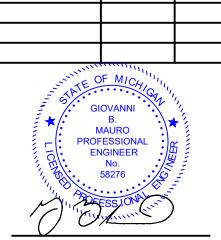
> O DR NORTON 40 9





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PRELIMINARY 💹	CONSTRUCTION AS-BUILT
Drawn By:	G.M.
Checked By:	S.M.
Approved By:	SM

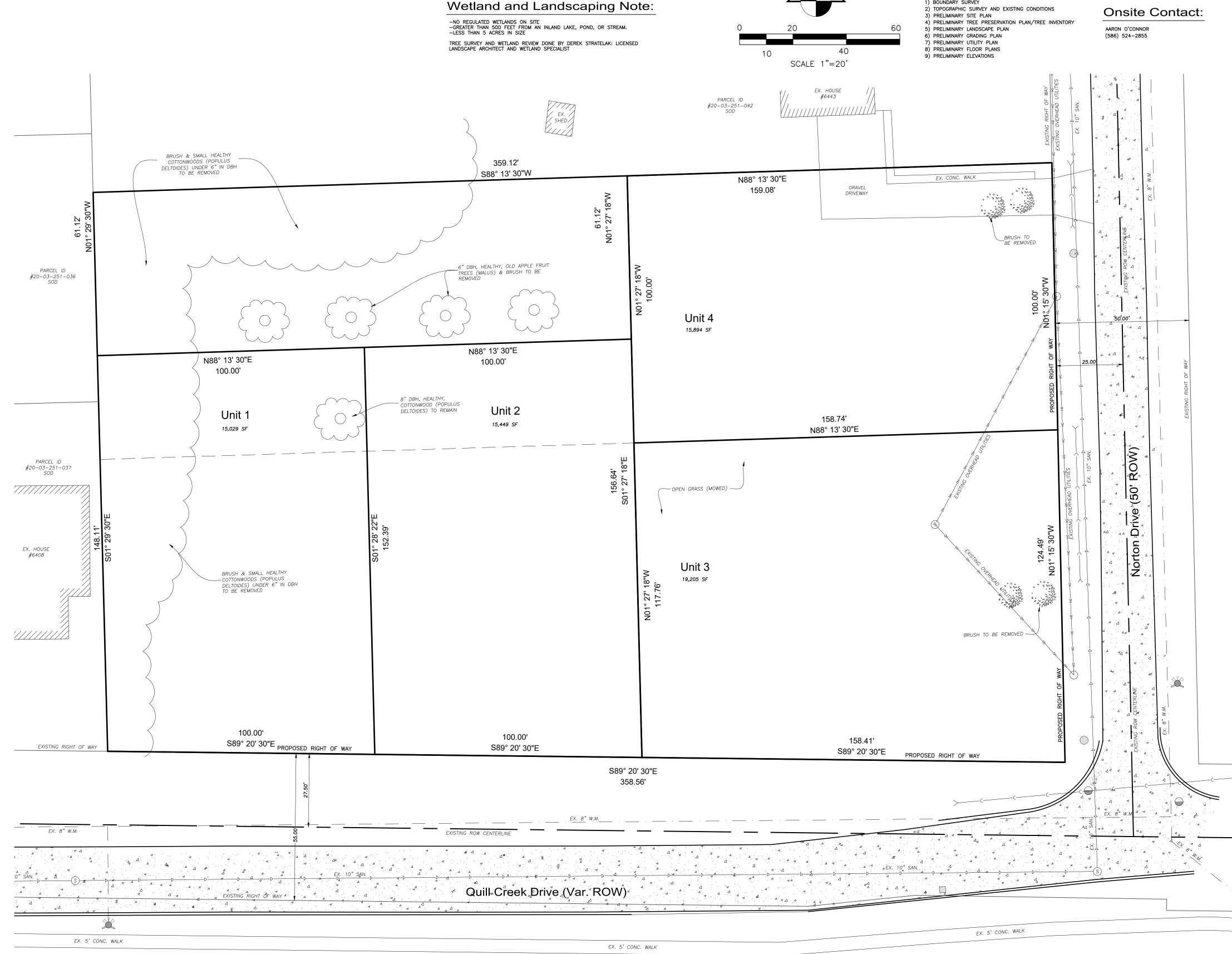
Approved By:	S.M.	
Revisions:	Date:	By:



SIMONE B. MAURO, P.E. - No. 30592 GIOVANNI B. MAURO, P.E. - No. 58276

16-032

of: **9** 



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37 OF PLATS, PAGE 9 OF OAKLAND COUNTY

FEET OF LOT(S) 51 OF BASSET & SMITH

FLOWING SPRING ACRES ACCORDING TO THE

9 OF OAKLAND COUNTY RECORDS

PLAT RECORDED IN LIBER 37 OF PLATS, PAGE

PARCEL: 20-03-251-043

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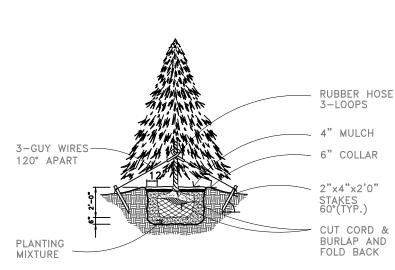
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## Woodland and Landmark Tree Note:

NO WOODLAND AND LANDMARK TREES EXIST ON SITE



8' arborvitae planting detail

no scale

## Preliminary Site Condominium Plan

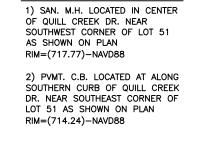
SECTION 3 T.2 N., R. 11 E., CITY OF TROY, OAKLAND COUNTY, MICHIGAN

Wetland and Landscaping Note:

-NO REGULATED WETLANDS ON SITE
-GREATER THAN 500 FEET FROM AN INLAND LAKE, POND, OR STREAM.
-LESS THAN 5 ACRES IN SIZE

TREE SURVEY AND WETLAND REVIEW DONE BY DEREK STRATELAK: LICENSED LANDSCAPE ARCHITECT AND WETLAND SPECIALIST





1) BOUNDARY SURVEY

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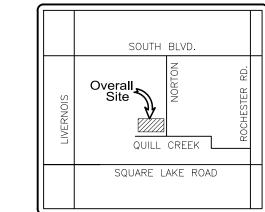
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Benchmark



Location map

**Onsite Contact:** AARON O'CONNOR (586) 524-2855

AARON O'CONNOR

PROJECT LOCATION: CITY OF TROY

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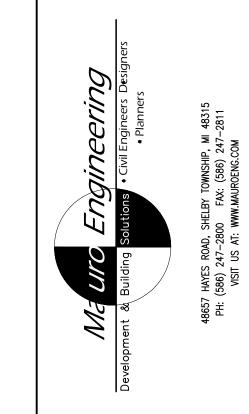
**CIVIL DAMAGES AND** 

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06-10-2020

SCALE: 1" = 20'

> DR. NORTON LANDSCA 40





LIMINARY 🔀 CONSTRUCTION 🗌 G.M. Checked By: S.M.

Date:

SIMONE B. MAURO, P.E. - No. 30592 GIOVANNI B. MAURO, P.E. - No. 58276

16-032 of: **9** 

SCALE 1"=20' S88° 13' 30"W N88° 13' 30"E GRAVEL DRIVEWAY 159.08' PR. DETENTION BASIN PRELIMINARY FOUNDATION; DO NOT PARCEL ID #20–03–251–036 SOD ° 27 100. (QUERCUS) PR. GARAGE Unit 4 15,894 SF N88° 13' 30"E 100.00' 100.00' PR. CONC. 8" DBH, HEALTHY, COTTONWOOD (POPULUS DELTOIDES) TO REMAIN Unit 2 Unit 1 158.74' 15,449 SF 15,029 SF N88° 13' 30"E OPEN GRASS (MOWED) -PRELIMINARY FOUNDATION; DO NOT FOUNDATION; DO NOT PRELIMINARY FOUNDATION; DO NOT EX. HOUSE #6408 Unit 3 19,205 SF PR. GARAGE PR. CONC. PR. GARAGE BRUSH TO BE REMOVED -PR. (15) 2.5" DIA. OAK TREES (QUERCUS) S89° 20' 30"E PROPOSED RIGHT OF WAY 158,41 PROPOSED RIGHT OF WAY PR. 5' CONC. WALK PR. 5' CONC. WALK PR. 5' CONC. WALK 358.56' EX. 5' CONC. WALK EX. 5' CONC. WALK



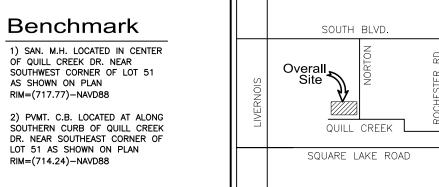
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# Preliminary Site Condominium Plan SECTION 3 T.2 N., R. 11 E., CITY OF TROY, OAKLAND COUNTY, MICHIGAN Legal Description:



PARCEL: 20-03-251-044

PARCEL ID #20-03-251-042 SOD

LOT(S) 51, EXCLUDING NORTH 245.49 FEET

OF BASSET & SMITH FLOWING SPRING ACRES ACCORDING TO THE PLAT RECORDED IN LIBER

37 OF PLATS, PAGE 9 OF OAKLAND COUNTY

THE SOUTH 100 FEET OF THE NORTH 245.49

FEET OF LOT(S) 51 OF BASSET & SMITH

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SCALE 1"=20'

Mauro Engineering

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48657 Hayes Road Shelby Twp., MI 48315

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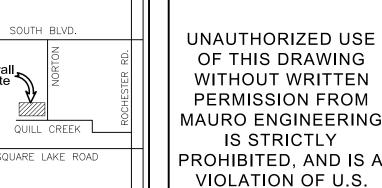
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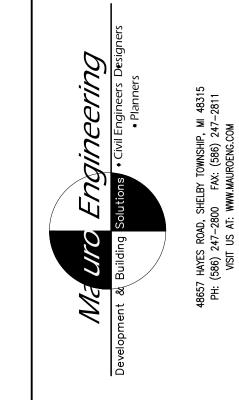
PROJECT LOCATION: CITY OF TROY

AARON O'CONNOR

12-10-2020

SCALE: 1" = 20'

> DR GRADING 407



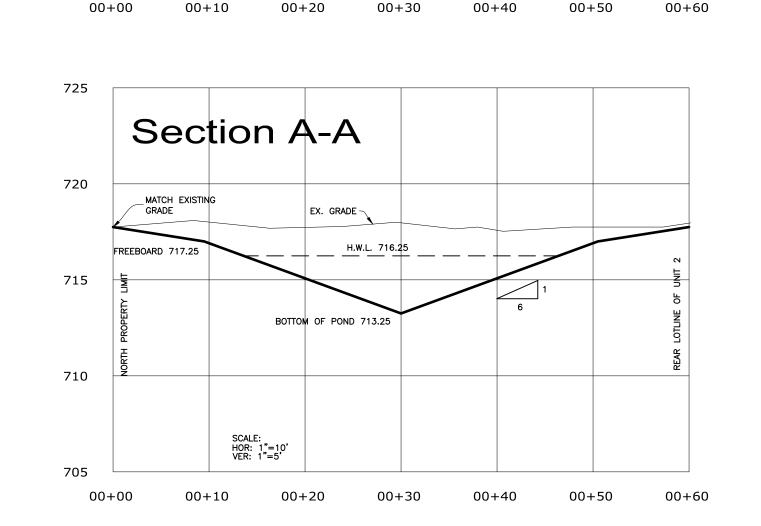
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Approved By: S.M. Revisions: Date:

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16-032

of: **9** 



EX. GRADE  $\neg$ 

## **Detention Calcs:**

Section B-B

FREEBOARD 717.25

\_\_MATCH\_EXISTING GRADE

715

710

705

ACREAGE = 1.786 ACRES

C = 0.3 $Q_{\alpha} = 0.2 \text{ CFS/ACRE} = 0.357 \text{ CFS}$ 

 $Q_o = Q_a/(ACREAGE*C) = 0.667 CFS$ 

 $T = -25 + (6562.5/Q_0)^0.5 = 74.22$  MINUTES  $Vs = (10500*T)/(T+25)-(40*Q_a*T) = 5875.18 CF/ACRE$ 

## Orifice Size Calcs:

Vt = Vs\*ACREAGE\*C = 3,148 C.F. REQUIRED

 $G = 32.2 FT/SEC^2$ H = 2 FT $Q_{\alpha} = 0.357$  CFS

 $A = Q/(0.62(2GH)^0.5)) = 0.0414 FT^2$ 

714.25

USE 2.75" RESTRICTION

|Description Legend:

TW - TOP OF WALK
TD - TOP OF DRIVE

ME - MATCH EXISTING

STM-MH - STORM MANHOLE
SAN-MH - SANITARY MANHOLE
BLDG - BUILDING

SAN-MH - SANITARY MANH(
BLDG - BUILDING
T/WALL - TOP OF WALL
B/WALL - BOTTOM OF WALL
GRADE - TOPOGRAPHY SPO
TREE - EXISTING TREE
BSMT - BASEMENT
UNEX - UNEXCAVATED
EOP - EDGE OF PAVEMENT
EOG - EDGE OF GRAVEL
P - PORCH

W/B - WATER BOX

IF - IRON FOUND

ME - MATCH EXISTING
FG - FINAL (FINISHED) GRADE
SW - SWALE
HP - HIGH POINT
CB - CATCH BASIN
GFF - GARAGE FINISH FLOOR
FF - FIRST FINISH FLOOR
BFF - BSMT. FINISH FLOOR

- BOTTOM OF WALL - TOPOGRAPHY SPOT GRADE

- EDGE OF PAVEMENT

### CURRENT ZONE: R-1B SETBACKS: FRONT - 40' SIDE - 10' MIN. 25' TOTAL LOT SQUARE FOOTAGE: 15,000 SF

Site Info

LOT WIDTH: 100' MIN. BUILDING HEIGHT: 2.5 STORIES, 30'

LOT COVERAGE: 30% MAX.

Storage Area 1 (Elev.)	Square Feet	Cubic Feet	Total Storage (Cu. Ft.)
716.25	4712	3609.074727	5184.3 PROVIDED
715.25	2609	1574.316932	

## Wetland and Landscaping Note:

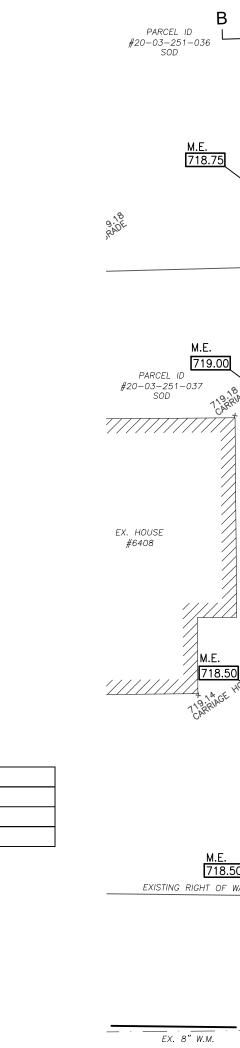
-NO REGULATED WETLANDS ON SITE
-GREATER THAN 500 FEET FROM AN INLAND LAKE, POND, OR STREAM.
-LESS THAN 5 ACRES IN SIZE TREE SURVEY AND WETLAND REVIEW DONE BY DEREK STRATELAK: LICENSED LANDSCAPE ARCHITECT AND WETLAND SPECIALIST

ALL INTERIOR GRADES (ARCHITECTURAL) SHALL BE VERIFIED BY THE BUILDER, ARCHITECT AND/OR CONTRACTOR PRIOR TO CONSTRUCTION.
ALL TRADES MUST USE THE ARCHITECTURAL PLANS OF RECORD FOR

ALL PROPOSED GRADES ON THIS PLAN WERE OBTAINED FROM THE NOT RELIEVE ANY PARTIES FROM THOSE COMPLIANCES UTILITY LOCATIONS WERE OBTAINED FROM MUNICIPAL OFFICIALS AND

**General Notes:** 

SUBDIVISION MASTER GRADE PLAN. GRADE CHANGES ARE SUBJECT TO FIELD VERIFICATIONS AND TOPOGRAPHIES CONDUCTED AT THE TIME OF THE PLOT PLAN OWNER, BUILDER AND/OR ANY CONTRACTORS SHALL COMPLY WITH ALL LOCAL CODES AND/OR ORDINANCES, APPROVAL OF THIS PLAN DOES RECORDS OF UTILITY COMPANIES, AND NO GUARANTEE CAN BE MADE TO THE COMPLETENESS, OR EXACTNESS OF LOCATION. THIS SURVEY MAY NOT SHOW ALL EASEMENTS OF RECORD UNLESS AN UPDATED TITLE POLICY IS FURNISHED TO THE SURVEYOR BY THE OWNER



EX. 5' CONC. WALK

359.12' S88° 13' 30"W N88° 13' 30"E DR<u>IVEWAY</u> \_\_\_\_\_ PR. DETENTION BASIN FOUNDATION; DO NOT <del>714.25</del> HWL=716.25 PR. GARAGE 718.00 718.00 N88° 13' 30"E 100.00' 100.00' 73.82' 158.74' 15,029 SF N88° 13' 30"E — BUILDING SETBACK LINE (TYP.) 719.50 BUILDING SETBACK LINE (TYP.) PRFI IMINARY PRELIMINARY FOUNDATION; DO NOT FOUNDATION; DO NOT PRELIMINARY FOUNDATION; DO NOT PR. GARAGE 19,205 SF 719.00 PR. CONC. 718.00 718.00 PR. CONC. 719.00 DRIVE 73.54 — BUILDING SETBACK LINE (TYP.) 100.00' S89° 20' 30"E PROPOSED RIGHT OF WAY 158.41' S89° 20' 30"E S89° 20' 30"E PROPOSED RIGHT OF WAY PR. 5' CONC. WALK 1 PR. 5' CONC. WALK 7 +'GPPR. 5' CONC. WALK 1

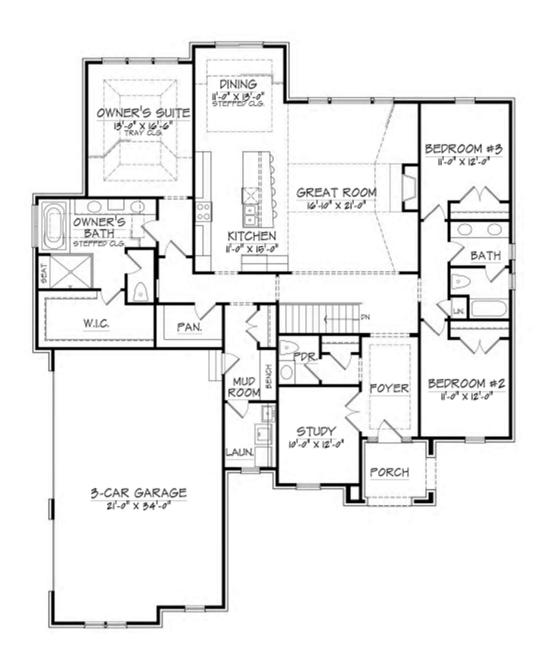
358.56'

EX. 5' CONC. WALK

#### Preliminary Site Condominium Plan Benchmark SOUTH BLVD. **UNAUTHORIZED USE** 1) SAN. M.H. LOCATED IN CENTER OF THIS DRAWING OF QUILL CREEK DR. NEAR SOUTHWEST CORNER OF LOT 51 WITHOUT WRITTEN SECTION 3 T.2 N., R. 11 E., CITY OF TROY, OAKLAND COUNTY, MICHIGAN PERMISSION FROM 2) PVMT. C.B. LOCATED AT ALONG MAURO ENGINEERING SOUTHERN CURB OF QUILL CREEK DR. NEAR SOUTHEAST CORNER OF LOT 51 AS SHOWN ON PLAN IS STRICTLY PROHIBITED, AND IS A RIM=(714.24)-NAVD88 VIOLATION OF U.S. COPYRIGHT LAWS AND Location map WILL BE SUBJECT TO Section B-B CIVIL DAMAGES AND Legal Description: PROSECUTION Onsite Contact: PARCEL: 20-03-251-044 720 LOT(S) 51, EXCLUDING NORTH 245.49 FEET \_\_MATCH\_EXISTING GRADE OF BASSET & SMITH FLOWING SPRING ACRES ACCORDING TO THE PLAT RECORDED IN LIBER EX. GRADE -(586) 524-2855 37 OF PLATS, PAGE 9 OF OAKLAND COUNTY FREEBOARD 717.25 Sheet Index: ) BOUNDARY SURVEY 715 PARCEL: 20-03-251-043 AARON O'CONNOR ) TOPOGRAPHIC SURVEY AND EXISTING CONDITIONS ) PRELIMINARY SITE PLAN THE SOUTH 100 FEET OF THE NORTH 245.49 4) PRELIMINARY TREE PRESERVATION PLAN/TREE INVENTORY FEET OF LOT(S) 51 OF BASSET & SMITH PROJECT LOCATION: 5) PRELIMINARY LANDSCAPE PLAN FLOWING SPRING ACRES ACCORDING TO THE SCALE 1"=20' 6) PRELIMINARY GRADING PLAN 7) PRELIMINARY UTILITY PLAN CITY OF TROY 8) PRELIMINARY FLOOR PLANS 9) PRELIMINARY ELEVATIONS 710 12-10-2020 EX. HOUSE #6443 SCALE: HOR: 1"=10' VER: 1"=5' SCALE: 1" = 20' #20-03-251-042 SOD 705 00+90 00+0000+20 00+30 01+10 01+20 359.12' S88° 13' 30"W DR N88° 13' 30"E 725 159.08' Section A-A $\supset$ 720 MATCH EXISTING PR. DETENTION BASIN PRELIMINARY 6407 FOUNDATION; DO NOT H.W.L. 716.25 PARCEL ID #20–03–251–036 SOD 715 PR. GARAGE BOTTOM OF POND 713.25 6" SDR 23.5 SAN. 15,894 SF 710 N88° 13' 30"E N88° 13' 30"E 100.00' 100.00' 705 00+00 00+20 Unit 2 158.74' N88° 13' 30"E 15,029 SF Site Info **Detention Calcs:** PARCEL ID CURRENT ZONE: R-1B #20-03-251-037 SOD ACREAGE = 1.786 ACRES COPPER WATER -SETBACKS: SERVICE (TYP.) C = 0.3FRONT - 40' (50' $Q_{\alpha}$ = 0.2 CFS/ACRE = 0.357 CFS SIDE - 10' MIN. 25' TOTAL $Q_o = Q_a/(ACREAGE*C) = 0.667 CFS$ LOT SQUARE FOOTAGE: 15,000 SF USE ORIFICE: PRELIMINARY PRELIMINARY LOT WIDTH: 100' MIN. FOUNDATION; DO NOT FOUNDATION; DO NOT $T = -25 + (6562.5/Q_0)^0.5 = 74.22$ MINUTES PRELIMINARY $Vs = (10500*T)/(T+25)-(40*Q_a*T) = 5875.18 CF/ACRE$ FOUNDATION; DO NOT Vt = Vs\*ACREAGE\*C = 3,148 C.F. REQUIRED LOT COVERAGE: 30% MAX. Orifice Size Calcs: PR. GARAGE 19,205 SF $G = 32.2 FT/SEC^2$ PR. CONC. H = 3 FT $Q_{\alpha} = 0.357 \text{ CFS}$ $A = Q/(0.62(2GH)^{0.5}) = 0.0414 FT^{2}$ PR. CONC. USE 2.75" RESTRICTION PR. 30 L.F. OF 21" CMP @ 0.32% LIMINARY CONSTRUCTION G.M. **Square Feet Cubic Feet** Total Storage (Cu. Ft.) Storage Area 1 (Elev.) Checked By: S.M. 4712 3609.074727 5184.3 PROVIDED Approved By: S.M. 2609 715.25 1574.316932 714.25 732 Revisions: Date: COPPER WATER 6" SDR 23.5 SAN. SERVICE (TYP.) LEAD (TYP.) S89° 20' 30"E PROPOSED RIGHT OF WAY 158.41' EXISTING RIGHT OF WAY S89\*20' 30"E PROPOSED RIGHT OF WAY PR. 5' CONC. WALK PR. 5' CONC. WALK PR. 5' CONC. WALK Wetland and Landscaping Note: -NO REGULATED WETLANDS ON SITE -GREATER THAN 500 FEET FROM AN INLAND LAKE, POND, OR STREAM. -LESS THAN 5 ACRES IN SIZE Description Legend: TREE SURVEY AND WETLAND REVIEW DONE BY DEREK STRATELAK: LICENSED LANDSCAPE ARCHITECT AND WETLAND SPECIALIST TW - TOP OF WALK TD - TOP OF DRIVE **General Notes:** ME - MATCH EXISTING FG - FINAL (FINISHED) GRADE SW - SWALE HP - HIGH POINT CB - CATCH BASIN GFF - GARAGE FINISH FLOOR FF - FIRST FINISH FLOOR BFF - BSMT. FINISH FLOOR ALL INTERIOR GRADES (ARCHITECTURAL) SHALL BE VERIFIED BY THE BUILDER, ARCHITECT AND/OR CONTRACTOR PRIOR TO CONSTRUCTION. ALL TRADES MUST USE THE ARCHITECTURAL PLANS OF RECORD FOR ALL PROPOSED GRADES ON THIS PLAN WERE OBTAINED FROM THE STM-MH - STORM MANHOLE SAN-MH - SANITARY MANHOLE BLDG - BUILDING SAN-MH - SANITARY MANH BLDG - BUILDING T/WALL - TOP OF WALL B/WALL - BOTTOM OF WALL GRADE - TOPOGRAPHY SPC TREE - EXISTING TREE BSMT - BASEMENT UNEX - UNEXCAVATED EOP - EDGE OF PAVEMENT EOG - EDGE OF GRAVEL P - PORCH SUBDIVISION MASTER GRADE PLAN. GRADE CHANGES ARE SUBJECT TO FIELD VERIFICATIONS AND TOPOGRAPHIES CONDUCTED AT THE TIME OF THE PLOT PLAN - BOTTOM OF WALL - TOPOGRAPHY SPOT GRADE OWNER, BUILDER AND/OR ANY CONTRACTORS SHALL COMPLY WITH ALL LOCAL CODES AND/OR ORDINANCES, APPROVAL OF THIS PLAN DOES NOT RELIEVE ANY PARTIES FROM THOSE COMPLIANCES SIMONE B. MAURO, P.E. - No. 30592 Mauro Engineering GIOVANNI B. MAURO, P.E. - No. 58276 UTILITY LOCATIONS WERE OBTAINED FROM MUNICIPAL OFFICIALS AND RECORDS OF UTILITY COMPANIES, AND NO GUARANTEE CAN BE MADE TO THE COMPLETENESS, OR EXACTNESS OF LOCATION. la uro Engineering EX. 5' CONC. WALK 1.) Assumes no responsibility for given house dimensions. Client must verify dimensions prior to const. EX. 5' CONC. WALK W/B - WATER BOX 2.) This plan shall not be used to set foundations. 16-032 THIS SURVEY MAY NOT SHOW ALL EASEMENTS OF RECORD UNLESS AN UPDATED TITLE POLICY IS FURNISHED TO THE SURVEYOR BY THE OWNER IF - IRON FOUND 3.) Setbacks shown on this plot plan were obtained from the municipality. Since deed restrictions are not supplied by the municipality, the client must verify any special Subdivision restrictions. Mauro Engineering 4.) Lead locations shown on plan are approx. from approved plans. Contractor to field verify all 48657 Hayes Road Shelby Twp., MI 48315 of: **9** Ph: (586) 247-2800 • Fax: (586) 247-2811 5.) Assumes no responsibility for house placement designed within 0.5' of approved setbacks. Visit us at: www.mauroeng.com 6.) No title work given at the time of survey

Ranch Home Model 2,484 Sqft





FIRST FLOOR PLAN SCALE: 1/4"=1'-0"

FIRST FLOOR: 2,484 SQ. FT.



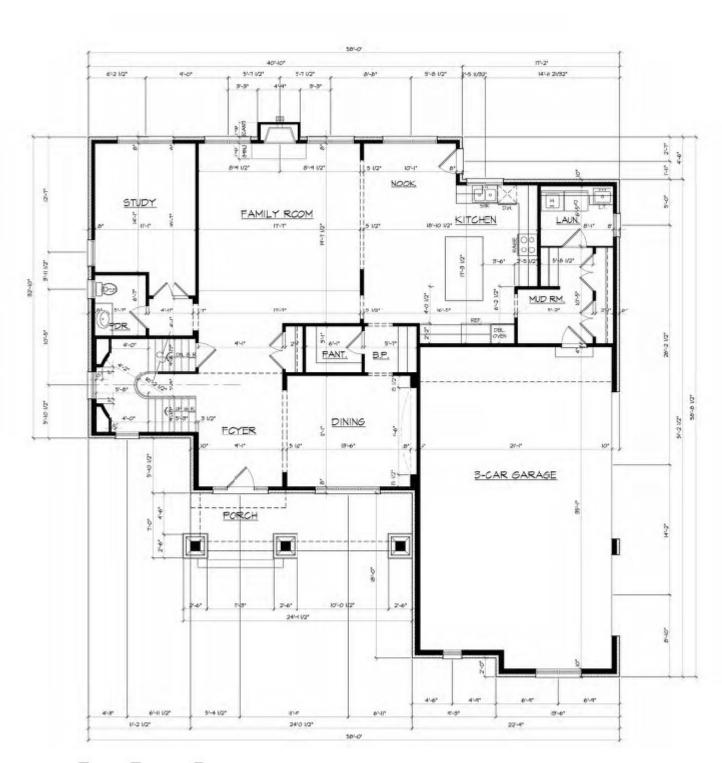
Ranch Home Model 2,484 Sqft





## Colonial Home Model 3,333 Sqft





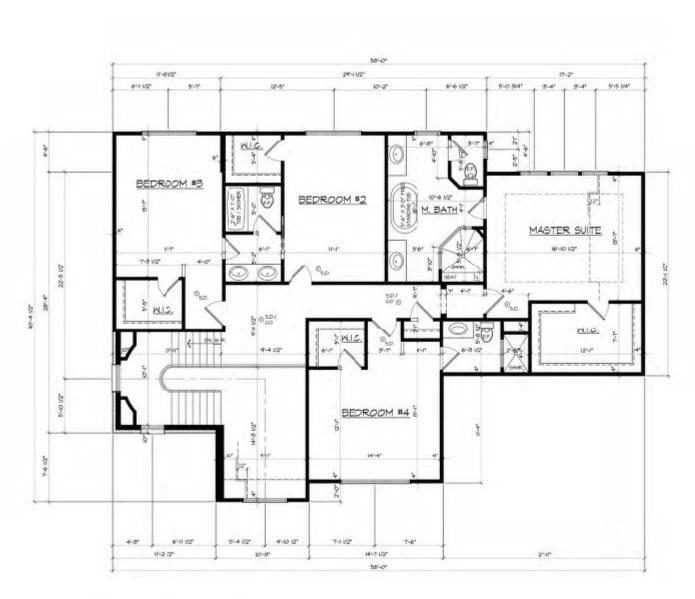
## FIRST FLOOR PLAN SCALE: 1/4"= 1'-0"

FIRST FLOOR: 1,754 SQ. FT. SECOND FLOOR: 1,579 SQ. FT. TOTAL: 3,333 SQ. FT.



## Colonial Home Model 3,333 Sqft





SECOND FLOOR PLAN SCALE: 1/4"= 1'-0"



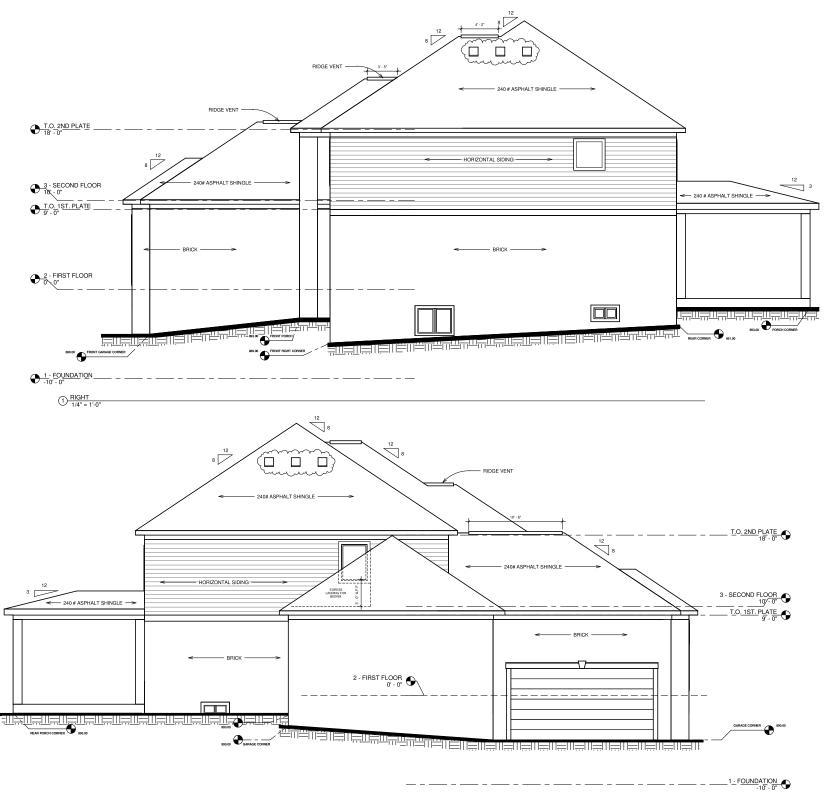
Colonial Home Model 3,333 Sqft

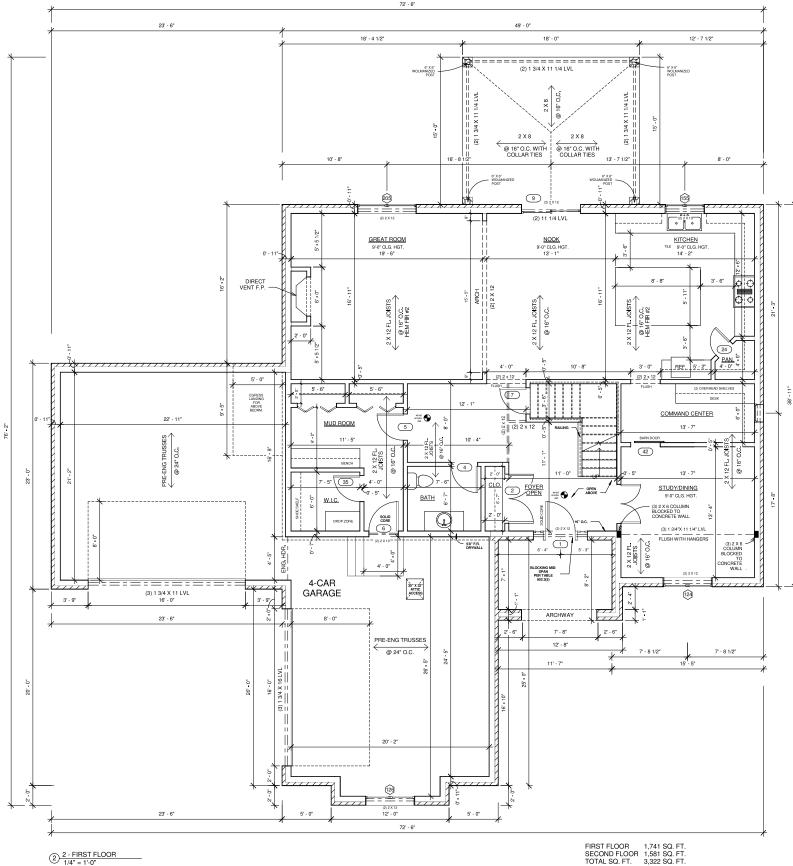




Elevation Concept SCALE 1/4"- 1'-0"







FIRST FLOOR 1,741 SQ. FT. SECOND FLOOR 1,581 SQ. FT. TOTAL SQ. FT. 3,322 SQ. FT.