

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

June 14, 2022 7:00 P.M. Council Chambers

- ROLL CALL
- 2. APPROVAL OF AGENDA
- 3. APPROVAL OF MINUTES May 24, 2022
- 4. PUBLIC COMMENT For Items Not on the Agenda

PRELIMINARY SITE PLAN REVIEW

5 <u>PRELIMINARY SITE PLAN REVIEW (File Number JPLN2022-0017)</u> – Proposed Abbey Estates Site Condominium, 4 units/lots, North side of Wattles, West of Rochester, Section 15, Currently Zoned R-1C (One Family Residential) District

OTHER ITEMS

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

Chair Lambert called the Regular meeting of the Troy City Planning Commission to order at 7:00 p.m. on May 24, 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
Marianna Perakis
Sadek Rahman
John J. Tagle

Absent:

Lakshmi Malalahalli

Also Present:

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

2. APPROVAL OF AGENDA

Resolution # PC-2022-05-030

Moved by: Rahman Support by: Tagle

RESOLVED, To approve the Agenda as prepared.

Yes: All present (8) Absent: Malalahalli

MOTION CARRIED

3. <u>APPROVAL OF MINUTES</u> – May 10, 2022

Resolution # PC-2022-05-031

Moved by: Perakis Support by: Buechner

RESOLVED, To approve the minutes of the May 10, 2022 Regular meeting as submitted.

Yes: All present (8)
Absent: Malalahalli

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 - SPECIAL USE APPROVAL AND PRELIMINARY SITE PLAN REVIEW (SP JPLN2022-0016) — Proposed Automark Collision Center, North side of Maplelawn, West of Crooks (1744 Maplelawn), Section 29, Currently Zoned IB (Integrated Industrial & Business) District

Mr. Carlisle reviewed the Special Use and Preliminary Site Plan application for Automark Collision Center as relates to the reinvestment in the property and site improvements. Mr. Carlisle explained the application is being reviewed as a Special Use because the property is located within 300 feet of residentially zoned property.

Mr. Carlisle addressed the Auto Repair Standards and Special Use Standards set forth in Section 6.26 and Section 9.03 of the Zoning Ordinance, respectively. Mr. Carlisle expressed support of the reinvestment in the site and recommended Preliminary Site Plan and Special Use Approval with the conditions as identified in the Planning Consultant report dated May 12, 2022.

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

- Screening of outdoor storage; maximum eight (8) feet high.
- Distance of property to residentially zoned property.
- Compliance with lighting and landscaping requirements, as relates to the re-use of an existing site.

Present were applicant Andrew Lekosiotis, Manager of Automark, and Glenn DesRosiers, real estate broker, friend and client.

Mr. Lekosiotis said the Troy collision shop would be a support shop for his two larger collision shops located in Farmington Hills and Rochester Hills. He said the shops provide certified repair services for premium vehicles (BMW's, Mercedes, Land Rovers). Mr. Lekosiotis said the Troy site would avoid tow-in's and provide quick repair services. He noted he would be a tenant of the building.

Mr. DesRosiers said he's known Mr. Lekosiotis for 34 years and wanted to express support for the proposed site reinvestment. He validated the reputable service that Mr. Lekosiotis provides to his clients from all over the country and briefly addressed a recent purchase/acquisition of a shop formerly operated by Mr. Lekosiotis.

There was discussion on:

- Location of overhead doors.
- Screening of outdoor storage, as relates to existing fence.
- Type, condition and estimated number of vehicles that would be stored.

PUBLIC HEARING OPENED

There was no one present who wished to speak.

PUBLIC HEARING CLOSED

Resolution # PC-2022-05-032

Moved by: Krent Support by: Rahman

RESOLVED, That Special Use Approval and Preliminary Site Plan Approval for the proposed Automark Collision Center, North side of Maplelawn, West of Crooks (1744 Maplelawn), Section 29, Currently Zoned IB (Integrated Industrial & Business) District, be **granted**, subject to the following conditions:

- Repair and restripe parking lot and provide thirty-five (35) automobile spaces including two (2) barrier free spaces.
- 2. Provide bicycle parking.
- 3. Install two (2) street trees.
- 4. Screen outdoor storage area.
- 5. All equipment including hydraulic hoists, pits, lubrication and repair facilities shall be entirely enclosed within building.
- 6. All repair and maintenance activities shall be performed entirely within enclosed building.

Yes: All present (8)
Absent: Malalahalli

MOTION CARRIED

CONCEPTUAL SITE PLAN

6. TROY CIVIC CENTER PAVILION – Conceptual Design

Public Works Director Kurt Bovensiep presented a conceptual design of the Troy Civic Center Pavilion. He said the conceptual design was recently presented to City Council who in turn approved a proposal from OHM to complete the design of the public space pavilion and ice-skating facility. Mr. Bovensiep addressed its location in proximity to the Jeanne M. Stine Community Park, OHM goals and objectives, funding, conceptual views of a four-season facility and lighting attraction.

There was discussion on:

- Parking.
- Accessibility to Jeanne M. Stine Community Park.
- Entry free facility, concessions, hours of operation, skating rink management, capability to offer all-season activities.
- Zamboni amenity, function, sustainability of ice-skating rink.
- Opportunity to host future attractions and programs.
- Landscaping.
- Public seating near activities.
- Best practices, ideas, obtained from visits to similar local facilities.
- Aggressive timeline; October 2023.

PRELIMINARY SITE PLAN REVIEW

7. PRELIMINARY SITE PLAN APPROVAL (File Number SP2019-0041) – Proposed Lange View Estates, Southeast corner of Livernois and Leetonia (4080 Livernois), Section 15, Currently Zoned NN Neighborhood Node (Node "H") District

Mr. Carlisle reviewed the Preliminary Site Plan application for Lange View Estates as relates to location, permitted use, access, existing on-site buildings, surrounding zoning and the undeveloped parcel to the south. He addressed the height and massing of the proposed development, excess of parking spaces on site, and deficiencies relating to trash enclosure details, parking lot trees and location of parking lot light. Mr. Carlisle addressed the Design Standards, Site Plan Review Standards and Transitional Features set forth in the Zoning Ordinance.

Mr. Carlisle stated the townhome development could be an appropriate use of the site but recommended the Planning Commission discuss transitional features, height and massing of the development, particularly the impact it might have on homes located on Leetonia. He reported that should the Planning Commission grant approval of the application, approval should be conditioned on items identified in his report dated May 17, 2022 and confirmation that the plan meets transparency requirements.

Property owner and commercial developer Vince Pangle addressed design elements, building height, historic post office and existing on-site buildings. Mr. Pangle said his business partner Gary Abitheira reduced the building height as much as possible and maintain viability of the project. He addressed existing styles of homes on Leetonia, the need for this type of housing development and shared that he has received positive comments from neighbors with whom he has reached out to. Mr. Pangle cited key elements are the green space adjacent to the home to the rear, upgrading both intersections and adding properties to existing stormwater management.

Ms. Perakis, referencing a rendering, asked if there was consideration given to eliminating the parking under the townhomes, lowering the building height by an entire story and providing detached covered parking.

Mr. Pangle apologized clarifying the rendering is inaccurate. He indicated property dimensions would not accommodate detached covered parking and still accommodate the parking needs for existing on-site buildings.

Mr. Carlisle explained the site is overparked by Zoning Ordinance requirements; 24 spaces are required for office, 16 spaces required for residential, totaling 40 spaces. The application provides 59 parking spaces.

There was discussion on:

- Lowering building height by one story; provide detached parking.
- Excess of parking spaces per Zoning Ordinance requirements.
- Transitional features in relation to adjacent residential.
- Setback of building to east to avoid overshadowing.
- Potential development of southern-most parcel.
- No public comment received by the Planning Department.

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

Members Faison, Hutson, Krent and Perakis expressed concerns with respect to building height, massing, transitional features and architectural elements.

Mr. Carlisle stated the application was submitted prior to a recent adoption of a Zoning Ordinance Text Amendment stipulating a maximum building height of two (2) stories in Neighborhood Node zoning districts. He said this application is considered as a grandfathered use and is permitted to construct up to three (3) stories. He noted though that the application must still meet the transitional features and design features of the Zoning Ordinance.

Resolution # PC-2021-05-033

Moved by: Krent Seconded by: Tagle

RESOLVED, That Preliminary Site Plan Approval, pursuant to Article 8 of the Zoning Ordinance, as requested for the proposed Lange View Estates, 8 units, located on the Southeast corner of Livernois and Leetonia (4080 Livernois), Section 15, Zoned NN (Neighborhood Node "H") District, be **denied**, for the following reason:

1. The application does not meet the ordinance requirements for transition.

Yes: All present (8) Absent: Malalahalli

MOTION CARRIED

OTHER ITEMS

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

There was no one present who wished to speak.

9. PLANNING COMMISSION COMMENT

There were general comments, some relating to:

- Status of Neighborhood Node Subcommittee meetings.
- Map of updated trail system.
- National Association of Planning May 15 event at Hammer & Nail in Detroit.

10. ADJOURN

Respectfully submitted.

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David Lambert, Chair		<u> </u>

Kathy L. Czarnecki, Recording Secretary

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DATE: June 10, 2022

TO: Planning Commission

FROM: R. Brent Savidant, Community Development Director

SUBJECT: PRELIMINARY SITE PLAN REVIEW (File Number JPLN2022-0017) - Proposed

Abbey Estates Site Condominium, 4 units/lots, North side of Wattles, West of Rochester, Section 15, Currently Zoned R-1C (One Family Residential) District

The petitioner MGM Signature Homes submitted the above referenced Preliminary Site Plan application for a 4-unit site condominium, comprised of detached single family homes. The property is currently zoned R-1C (One Family Residential) District. The Planning Commission is responsible for granting Preliminary Site Plan Approval for site condominium applications.

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 recommends approval of the project, as noted.

Attachments:

- 1. Maps
- 2. Report prepared by Carlisle/Wortman Associates, Inc.

cc: Applicant

File/Abbey Estates Site Condominium

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PROPOSED RESOLUTION

PRELIMINARY SITE PLAN REVIEW (File Number JPLN2022-0017) — Proposed Abbey Estates Site Condominium, 4 units/lots, North side of Wattles, West of Rochester, Section 15, Currently Zoned R-1C (One Family Residential) District

Resolution # PC-2022-06-

Moved by: Seconded by:

RESOLVED, That Preliminary Site Condominium Approval, pursuant to Article 8 and Section 10.02 of the Zoning Ordinance, as requested for Abbey Estates Site Condominium, 4 units/lots, North side of Wattles, West of Rochester, Section 15, Currently Zoned R-1C (One Family Residential) District, be granted, subject to the following:

- 1. Resubmit landscape plan stamped by Landscape Architect.
- 2. If trees two (2) landmark trees in ROW die during the construction phase of the development, applicant is required to replace street trees as required in the Zoning Ordinance.

) or
(denied, for the following reasons:) or
(postponed, for the following reasons:)
Yes:	
No: Absent:	

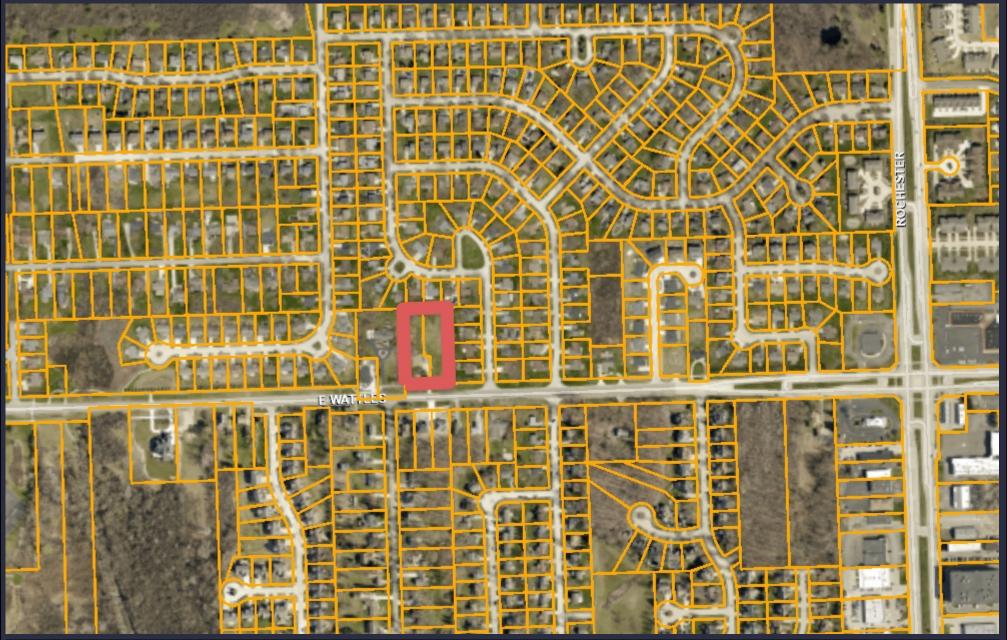
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1,189

GIS Online



1,189Feet

595

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

1,189

GIS Online



1,189 Feet

595

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 20, 2022

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

Applicant: Steve Muci

Project Name: Abbey Estates

Plan Date: May 10, 2022

Location: 571 and 589 Wattles

Zoning: R-1C, one-family attached 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 1.6 acres. The two existing parcels currently are improved with one (1) single family home. The applicant proposes a detention pond along the eastern property line, adjacent to the rear yard of the existing homes on Cypress Drive. The property is zoned R-1B, one-family attached residential, and the proposed site condominium use is permitted by-right.

All lots will be accessed off a private road, which is accessed off Wattles. Sidewalks will be added in front of all units.

Location of subject site:



Size of subject property: +/-69,260 sq/ft in area

Current use of subject property:

Single Family Home

Proposed use of subject site:

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

Current Zoning:

The property is currently zoned R-1C, one-family attached residential

Surrounding Property Details:

Direction	Zoning	Use
North	R-1C, One-family Residential District	Single-family home
South	R-1C, One-family Residential District	Single-family home
East	R-1C, One-family Residential District	Single-family home
West	R-1C, One-family Residential District	Single-family home

NATURAL RESOURCES

<u>Topography</u> - The grading plan shows gentle slopes.

Woodlands/Landmark Trees -

A tree survey has been provided to inventory the natural features that exist onsite. The survey identified a total of 57 trees on site. The applicant has identified a total of 5 landmark trees on site and preserving 3. Full replacement and preservation details are shown in table below.

Table 2. – Woodland Protection Ordinance

Replacement Details				
Protected Tree	Inches Removed	Replacement Required		
Landmark	50 inches	50 inches		
Woodland	0 inches	0 inches		
Preservation/Mitigation	Inches Preserved	Credit		
Landmark	63 inches	126 inches		
Woodland	0 inches	0 inches		
Total	0 inches required for replacement. The number of inches preserved and credited exceed the mitigation required.			

<u>Wetlands/Flood Plain</u> – A 0.14 acre wetland was found on site but does not meet the conditions to be regulated by the MDEQ.

Items to be Addressed: None

SITE ARRANGEMENT, ACCESS, AND CIRCULATION

All lots meet the minimum lot area for the R-1C District, are regular in shape, allow for adequate setbacks, and permit sufficient space for the homes and ingress and egress for each unit. The applicant is applying lot averaging to their application. See next section for details.

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	10,500 sq ft	Range: 13,650 to 9,450	Complies with lot	
IVIIIIIIIIIIII LOT ATEA	10,500 Sq It	sq.ft	averaging	
Minimum Lot Width	85 ft	Range: 77.93 to 112.34	2.34	
IVIIIIIIIIIIII LOT WIGHT	feet		Complies	
Setbacks				
Front	30 ft	30 ft	Complies	
Side (Least)	10 ft	10 ft	Complies	
Side (Total)	20 ft	30 ft	Complies	
Rear	40 ft	40 ft	Complies	
Maximum Duilding Height	20 ft 2 5 story	22 fact to peak	Needs	
Maximum Building Height	30 ft, 2.5 story 33 feet to peak.		confirmation	
			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	

Lots:

As set forth in Section 10.01: Average Lot Sizes:

- A. Intent. The intent of this Section is to permit lot sizes and lot widths to be adjusted to average the minimum lot size as required in the district in which the property is located. This option is permissible in all One-Family Residential Districts.
- B. Standards.
 - a. In meeting the average minimum lot size, no lot area or width shall be reduced by more than ten (10) percent of that area or width required in the district in which the property is located.
 - b. The number of residential lots shall be no greater than if the land area to be developed complies with the minimum lot area and width requirements in the district in which the property is located. In this regard, the following maximum gross densities (including roads) shall not be exceeded:
 - R-1A = 1.6 dwelling units per acre
 - *R-1B = 2.2 dwelling units per acre*
 - *R-1C* = 3.1 dwelling units per acre

R-1D = 3.8 dwelling units per acre R-1E = 4.2 dwelling units per acre

Lots:

Required Width (feet): 85, 76.5

Required Area (sq/ft): 10,500 average, 9,450 minimum

Lot	Width (feet)	Area (sq/ft)
1	112.34	13,650
2	77.93	9,450
3	77.93	9,450
4	78.16	9,450
Average:	86.59	10,500

Height:

The applicant shows a height of 33-feet to the peak. 30-feet is the maximum and measured to midpoint of roof. Applicant should confirm roof height.

Items to be Addressed: Confirm height.

LANDSCAPING

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

	Required	<u>Provided</u>	<u>Compliance</u>	
Wattles: 1 per 10 feet	160 feet = 16	2	See discussion below	
Internal Drive: 1 tree per 50 lineal feet	736 If / 50 = 7 trees	7 trees	Complies	
Stormwater Detention Pond	Seeded	Seeded and trees	Complies	

Landscape Plan not stamped by Landscape Architect.

Wattles Road Street Trees:

Applicant is required to plant 16 trees. 16 trees equate to 40 caliper inches. The applicant is proposing to preserve two (2) landmark trees along the Wattles Road frontage. These trees are in the ROW. The total caliper inches of those two (2) trees are 40 inches. To plant the required trees, the applicant would have to remove those two (2) mature trees and replant with smaller trees. The applicant is seeking relief to keep these trees rather than remove and use those caliper inches to count towards their planting requirement. Please note that because these two trees are located offsite (in ROW), we did not count their preservation to the woodland mitigation credit. Please note that if the Planning Commission allows these trees to count their planting requirement and if these trees do not survive during the construction

period of this development, the applicant would be required to remove trees and plant the required street trees.

Items to be Addressed: 1). Planning Commission to consider allowing offsite tree preservation to street tree requirement; and 2). Have plan prepared by licensed landscape architect.

FLOOR PLANS AND ELEVATIONS

The applicant submitted five proposed elevations, with all based on the same floor plan. Materials are not indicated.

Items to be Addressed: 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 a private road, with a 40-foot easement.

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 a private road, with a 40-foot easement.

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:

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 applicant shows a height of 33-feet to the peak. 30-feet is the maximum and measured to midpoint of roof. Applicant should confirm roof height.

Items to be Addressed: Confirm roof height.

SUMMARY

The Planning Commission to consider allowing the two (2) trees in the ROW to count towards their street tree requirements.

If the Planning Commission approves the preliminary site plan, the following conditions should be required:

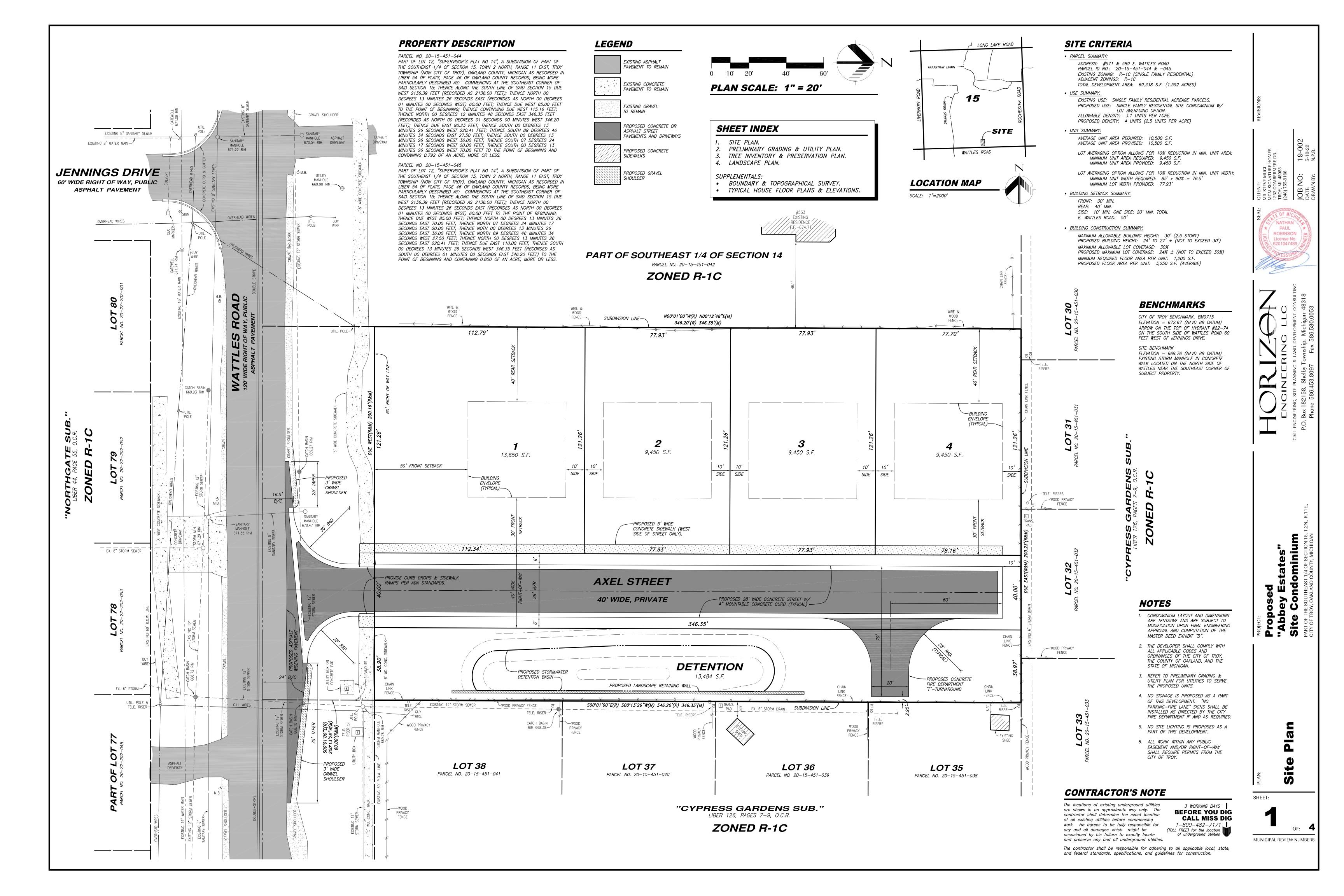
- 1. Confirm roof height.
- 2. Provide materials.
- 3. Resubmit landscape plan stamped by Landscape Architect.
- 4. If trees two (2) landmark trees in ROW die during the construction phase of the development, applicant is required to replace street trees as required in the Zoning Ordinance.

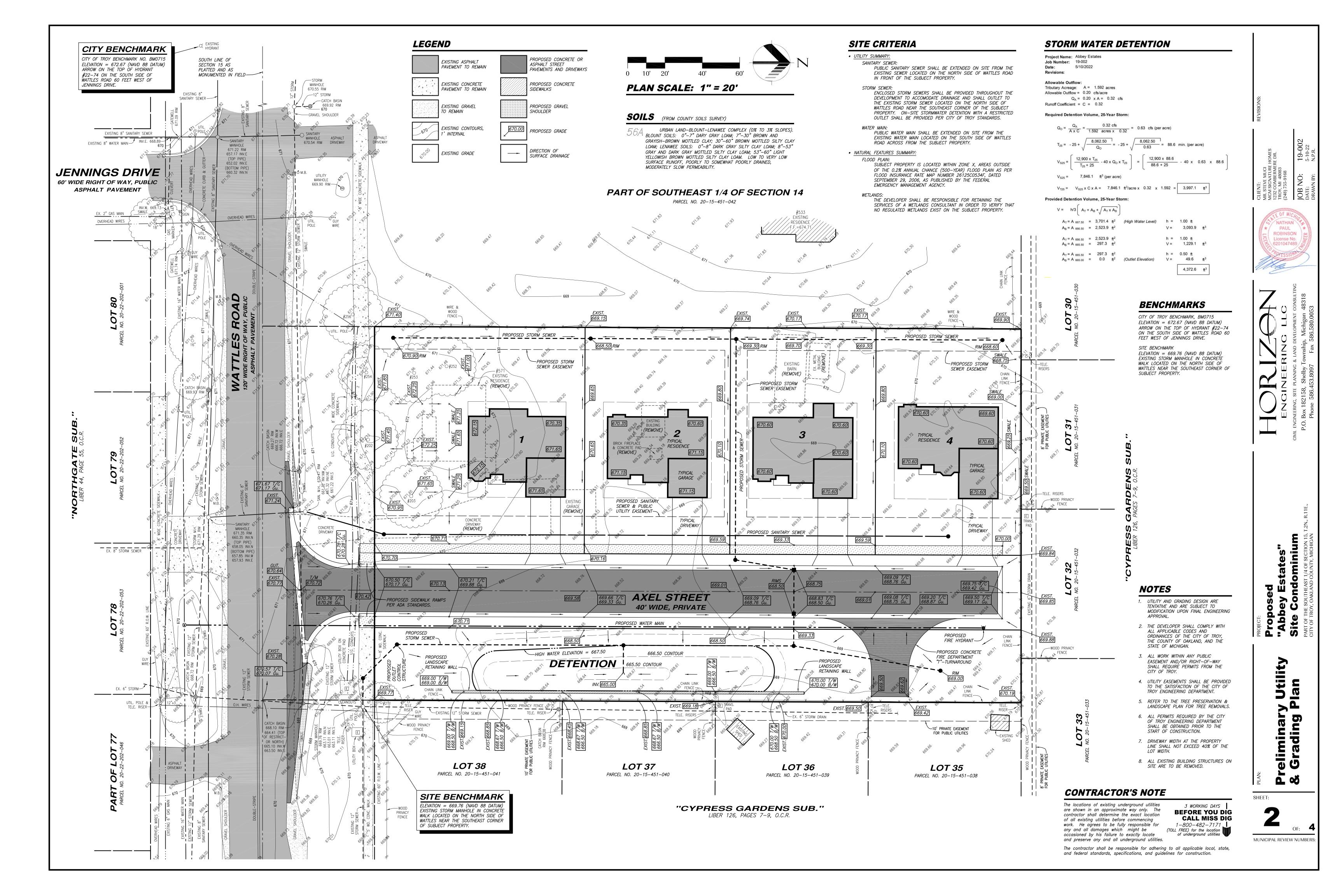
CARLISLE/WORTMAN ASSOC., INC.

Ben R. Cal

Benjamin R. Carlisle, AICP, LEED AP

Principal





Yes

Yes

Yes

Yes

Yes

Yes

Yes

none

3.5"

3.5"

Acer negundo

Pinus sylvestris

Picea pungens

Pinus sylvestris

Populus deltoides Cottonwood

Colorado Spruce

Scotch Pine

Norway Spruce

Colorado Spruce

Colorado Spruce

Scotch Pine

STORM SEWER-

5' WD. CONC. WALK-

fair

218

219

220

221

222

223

224

225

neighboring tree, & dead branches

'V'-shaped crotch(es)

- Dead branches & excessive pitch on trunk

- Lower/shaded branches dead/missing

Lower/shaded branches dead/missing

Lower/shaded branches dead/missing

Lower/shaded branches dead/missing

- Dead branches & excessive pitch on trunk

LOT 38

PARCEL NO. 20-15-451-041

- Stunted, yellowing foliage, dead/dying branches 40%

TOTAL CALIPER INCHES OF REPLACEMENT REQUIRED = 122" TOTAL CALIPER INCHES OF CREDIT = 206" NET CALIPER INCHES OF REPLACEMENT REQUIRED = NONE

47%

NO (offsite)

Replacement

none

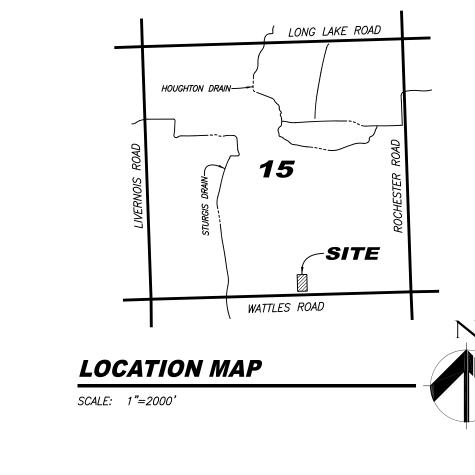
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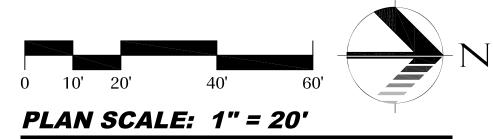
-40" (credit)

-40" (credit)

-38" (credit)

none





PROPERTY DESCRIPTION

PARCEL NO. 20-15-451-044 PART OF LOT 12, "SUPERVISOR'S PLAT NO 14", A SUBDIVISION OF PART OF THE SOUTHEAST 1/4 OF SECTION 15, TOWN 2 NORTH, RANGE 11 EAST, TROY TOWNSHIP (NOW CITY OF TROY), OAKLAND COUNTY, MICHIGAN AS RECORDED IN LIBER 54 OF PLATS, PAGE 46 OF OAKLAND COUNTY RECORDS, BEING MORE PARTICULARLY DESCRIBED AS: COMMENCING AT THE SOUTHEAST CORNER OF SAID SECTION 15; THENCE ALONG THE SOUTH LINE OF SAID SECTION 15 DUE WEST 2136.39 FEET (RECORDED AS 2136.00 FEET); THENCE NORTH 00 DEGREES 13 MINUTES 26 SECONDS EAST (RECORDED AS NORTH 00 DEGREES 01 MINUTES 00 SECONDS WEST) 60.00 FEET; THENCE DUE WEST 85.00 FEET TO THE POINT OF BEGINNING; THENCE CONTINUING DUE WEST 115.16 FEET; THENCE NORTH OO DEGREES 12 MINUTES 48 SECONDS EAST 346.35 FEET (RECORDED AS NORTH OO DEGREES 01 SECONDS 00 MINUTES WEST 346.20 FEET); THENCE DUE EAST 90.23 FEET; THENCE SOUTH 00 DEGREES 13 MINÚTES 26 SECONDS WEST 220.41 FEET; THENCE SOUTH 89 DEGREES 46 MINUTES 34 SECONDS EAST 27.50 FEET; THENCE SOUTH 00 DEGREES 13 MINUTES 26 SECONDS WEST 36.00 FEET; THENCE SOUTH 07 DEGREES 24 MINUTES 17 SECONDS WEST 20.00 FEET; THENCE SOUTH 00 DEGREES 13 MINUTES 26 SECONDS WEST 70.00 FEET TO THE POINT OF BEGINNING AND

CONTAINING 0.792 OF AN ACRE, MORE OR LESS. PARCEL NO. 20-15-451-045 PART OF LOT 12, "SUPERVISOR'S PLAT NO 14", A SUBDIVISION OF PART OF THE SOUTHEAST 1/4 OF SECTION 15, TOWN 2 NORTH, RANGE 11 EAST, TROY TOWNSHIP (NOW CITY OF TROY), OAKLAND COUNTY, MICHIGAN AS RECORDED IN LIBER 54 OF PLATS, PAGE 46 OF OAKLAND COUNTY RECORDS, BEING MORE PARTICULARLY DESCRIBED AS: COMMENCING AT THE SOUTHEAST CORNER OF SAID SECTION 15; THENCE ALONG THE SOUTH LINE OF SAID SECTION 15 DUE WEST 2136.39 FEET (RECORDED AS 2136.00 FEET); THENCE NORTH 00 DEGREES 13 MINUTES 26 SECONDS EAST (RECORDED AS NORTH 00 DEGREES 01 MINUTES 00 SECONDS WEST) 60.00 FEET TO THE POINT OF BEGINNING; THENCE DUE WEST 85.00 FEET: THENCE NORTH 00 DEGREES 13 MINUTES 26 SECONDS EAST 70.00 FEET: THENCE NORTH 07 DEGREES 24 MINUTES 17 SECONDS EAST 20.00 FEET: THENCE NOTH OO DEGREES 13 MINUTES 26 SECONDS EAST 36.00 FEET; THENCE NORTH 89 DEGREES 46 MINUTES 34 SECONDS WEST 27.50 FEET; THENCE NORTH 00 DEGREES 13 MINUTES 26 SECONDS EAST 220.41 FEET; THENCE DUE EAST 110.00 FEET; THENCE SOUTH 00 DEGREES 13 MINUTES 26 SECONDS WEST 346.35 FEET (RECORDED AS SOUTH OO DEGREES O1 MINUTES OO SECONDS EAST 346.20 FEET) TO THE

POINT OF BEGINNING AND CONTAINING 0.800 OF AN ACRE, MORE OR LESS.

LEGEND



EXISTING TREE &





NOTES

- 1. FOR EXISTING TREE PROTECTION, A 4-FOOT HIGH ORANGE SNOW FENCE SHALL BE ERECTED AROUND TREE DRIP LINES PRIOR TO LAND CLEARING AND SITE CONSTRUCTION AND MAINTAINED THROUGHOUT SITE DEVELOPMENT PERIOD. NO CUTTING, FILLING OR TRESPASSING SHALL OCCUR INSIDE FENCED AREAS WITHOUT PRIOR CITY APPROVAL.
- 2. ALL TREES LYING OFFSITE OR OUTSIDE OF THE DEVELOPMENT AREA SHALL BE PRESERVED.

CONTRACTOR'S NOTE

The locations of existing underground utilities are shown in an approximate way only. The contractor shall determine the exact location of all existing utilities before commencing work. He agrees to be fully responsible for any and all damages which might be occasioned by his failure to exactly locate and preserve any and all underground utilities.

BEFORE YOU DIG CALL MISS DIG 1-800-482-7171 (TOLL FREE) for the location of underground utilities

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SHEET: 3 WORKING DAYS

226 Lower/shaded branches dead/missing 6.5" Pinus sulvestris 227 Yes 5.5" Scotch Pine - Dead branches & excessive pitch on trunk Pinus sylvestris 228 Scotch Pine - Lower/shaded branches dead/missing Pinus sylvestris 229 - Stunted, yellowing foliage, dead/dying branches 40% Yes Colorado Spruce -8' WIDE CONCRETE SIDEWALK PART OF SOUTHEAST 1/4 OF SECTION 14 PARCEL NO. 20-15-451-042 WOOD FENCE r------_____----__ ◆----+-----WIRE & INSTALL TREE PROTECTION (BRUSH & TREES)-FENCING AROUND DRIPLINE (REMOVE) OF TREES TO BE PRESERVED (REMOVE) (BRUSH & TREES) (REMOVE) r-----RESIDENCE (REMOVE) BUILDING-(REMOVE) (REMOVE) 669.27 RIM FENCE **EXISTING** GARAGE **X** #238 (REMOVE) **AXEL STREET** (BRUSH & TREES) X (REMOVE) 40' WIDE, PRIVATE ·----<u>----</u> FENCE-**DETENTION** FENCE -(BRUSH & TREES) INSTALL TREE (REMOVE BRUSH) (BRUSH & TREES) -PROTECTION FENCING (REMOVE) EXISTING 12" STORM SEWER WOOD PRIVACY FENCE CHAIN LINK FENCE EX. 6" STORM DRAIN TELE. RISER-RIM 668.38— PRIVACY FENCE— 669.76 RIM FENCE FXISTING 12" **LOT 37** LOT 36

PARCEL NO. 20-15-451-040

Red Maple

Oak (red family)

Walnut

Mulberry

Acer rubrum

Ouercus spp.

PARCEL NO. 20-15-451-039

"CYPRESS GARDENS SUB." LIBER 126, PAGES 7-9, O.C.R.

Morus spp.

255

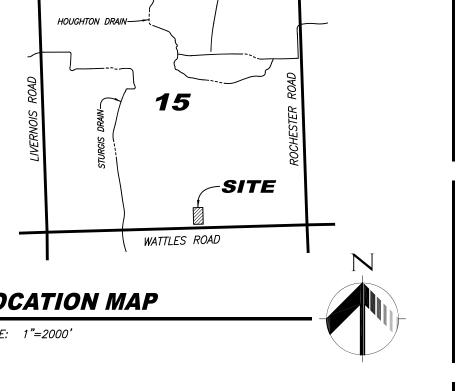
- Rot in trunk

- Broken branch(es)

- Hollow/extensive rot

LOT 35

PARCEL NO. 20-15-451-038

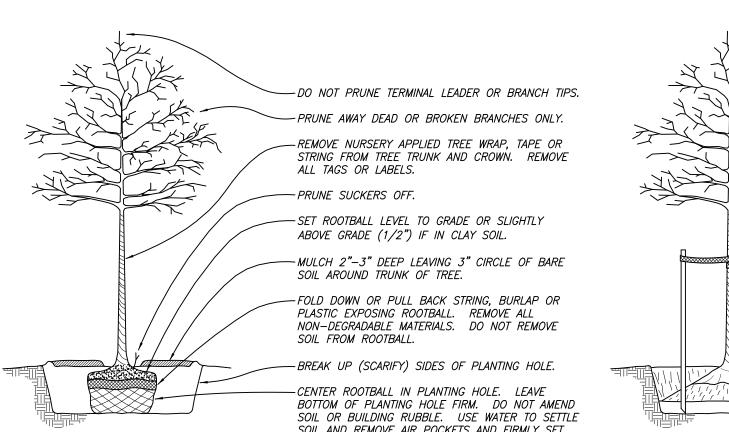


PAUL ROBINSON License No. 6201047489

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nvento vation

MUNICIPAL REVIEW NUMBERS



DO NOT STAKE UNLESS IN HEAVY CLAY SOIL, WINDY CONDITIONS, 3" OR GREATER DIAMETER TREE TRUNK OR LARGE CROWN. IF STAKING IS NEEDED DUE TO THESE CONDITIONS:

- STAKE WITH 2 x 2 HARDWOOD STAKES OR APPROVED EQUAL DRIVEN 6" — 8" OUTSIDE OF
- LOOSELY STAKE TREE TRUNK TO ALLOW FOR TRUNK FLEXING.
- STAKE TREES JUST BELOW FIRST BRANCH WITH 2" - 3" WIDE BELT-LIKE, NYLON OR PLASTIC STRAPS (2 PER TREE ON OPPOSITE SIDES OF TREE, CÒNNECT FROM TREE TO STAKE HORIZONTALLY. DO NOT USE ROPE OR WIRE

- 9. INSTALLATION OF PLANT MATERIAL SHALL BE IN ACCORDANCE WITH THE AMERICAN ASSOCIATION OF NURSERYMEN LANDSCAPE STANDARDS.
- 11. ALL PLANTING AREAS TO BE PREPARED WITH APPROPRIATE SOIL MIXTURES
- 12. PLANT TREES AND SHRUBS GENERALLY NO CLOSER THAN THE FOLLOWING
 - (CRAB, PINE, SPRUCE, ETC.)

PLANT SCHEDULE & COST ESTIMATE

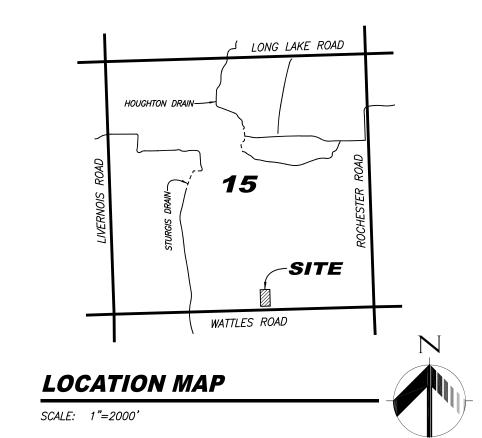
QUANTITY:	LABEL:	BOTANICAL NAME:	COMMON NAME:	SIZE:	UNIT PRICE:	INSTALLATION : COST:	UNIT TOTAL:
4 EACH	Tt	TILIA TOMENTOSA	STERLING LINDEN	2.5" CAL.	@ \$300.00		\$1,300.00
5 EACH	Qr	QUERCUS RUBRA	RED OAK	2.5" CAL.	@ \$300.00	"	<i>\$1,625.00</i>
5 EACH	Gt	GLEDITSIA TRIACANTHOS	S HONEY LOCUST	2.5" CAL.	@ \$300.00	@ \$25.00	\$ 1,625.00
CONIFEROUS	TREES:					INSTALLATION	
QUANTITY:	LABEL:	BOTANICAL NAME:	COMMON NAME:	SIZE:	UNIT PRICE:		UNIT TOTAL:
5 EACH	<u>Pa</u>	PICEA ABIES	NORWAY SPRUCE	<u></u>	@ \$300.00	@ \$25.00	\$1,625.00
3 EACH	Ps	PINUS STROBUS	WHITE PINE	5' HT.	@ \$300.00	@ \$25.00	\$ 975.00
LARGE CONI	FEROUS SI	HRUBS:				INSTALLATION	
QUANTITY:	LABEL:	BOTANICAL NAME:	COMMON NAME:	SIZE:	UNIT PRICE:		UNIT TOTAL:
9 EACH	To	THUJA OCCIDENTALIS	EMERALD GREEN ARBORVITAE	5' HT.	@ \$200.00	@ \$25.00	\$2,025.00
						SUBTOTAL COST:	#9,175
TOTAL TREE	ES: 31				5	5% CONTINGENCY.	
					7	TOTAL ESTIMATE:	\$9,635

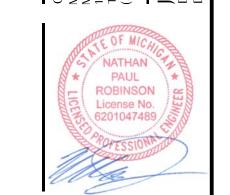
___WOOD PRIVACY

-PROPOSED CONIFEROUS

LOT 35

PARCEL NO. 20-15-451-038





PLAN SCALE: 1" = 20'

SITE CRITERIA

• LANDSCAPING SUMMARY:

TREE REPLACEMENT REQUIRED:

TOTAL CALIPER INCHES OF REPLACEMENT REQUIRED = 122" TOTAL CALIPER INCHES OF CREDIT = 206" NET CALIPER INCHES OF REPLACEMENT REQUIRED = NONE

PRIVATE STREET FRONTAGE TREES REQUIRED:

ONE LARGE DECIDUOUS TREE EVERY 50 FEET OF PRIVATE ROAD FRONTAGE ON SITE.

AXEL DRIVE (WEST SIDE): REQUIRED = 746.36'/50' = 6.93 = 7 TREES.PROVIDED = 7 TREÉS.

WATTLES ROAD FRONTAGE TREES REQUIRED:

ONE LARGE CONIFEROUS TREE EVERY 10 FEET OF PUBLIC ROAD FRONTAGE ALONG WATTLES ROAD.

REQUIRED = 160.16'/10' = 16.02 = 17 TREES.

PROVIDED = 5 EXISTING LANDMARK TREES, = TOTAL CALIPER CREDIT OF 206" - 122" TREE REPLACEMENT CREDITS ALREADY USED ABOVE = 84", = 84"/2.5" MIN. PLANTING SIZE = 33 EQUIVALENT TRÉES, THEREFORE NO ADDITIONAL TREES PROVIDED.

ADDITIONAL LANDSCAPING PROVIDED:

DETENTION AREA: 15 TREES PROVIDED. NORTH END OF PRIVATE STREET: 9 NARROW EVERGREENS PROVIDED.

LEGEND





25' CORNER VISION

NOTES

1. THE DEVELOPER SHALL COMPLY WITH ALL APPLICABLE CODES AND ORDINANCES OF THE CITY OF TROY, THE COUNTY OF OAKLAND, AND THE STATE OF MICHIGAN.

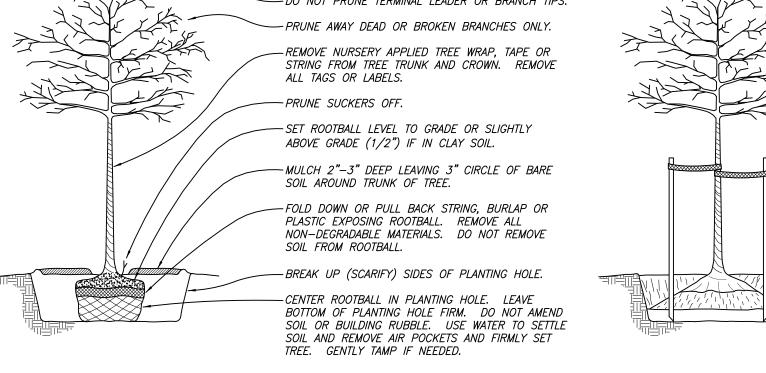
CONTRACTOR'S NOTE

3 WORKING DAYS **BEFORE YOU DIG CALL MISS DIG** 1-800-482-7171 (TOLL FREE) for the location of underground utilities

The contractor shall be responsible for adhering to all applicable local, state,

The locations of existing underground utilities are shown in an approximate way only. The contractor shall determine the exact location of all existing utilities before commencing work. He agrees to be fully responsible for any and all damages which might be occasioned by his failure to exactly locate and preserve any and all underground utilities.

and federal standards, specifications, and guidelines for construction.



-8' WIDE CONCRETE SIDEWALK

−25'x25' CORNER VISION TRIANGLE

TREE PLANTING DETAIL

SCALE: NONE

CATCH BASIN

EXISTING 12"

STORM SEWER-

ФЩ

SHEET:

MUNICIPAL REVIEW NUMBERS

LOT 37 LOT 36 PARCEL NO. 20-15-451-040 PARCEL NO. 20-15-451-039

AXEL STREET 40' WIDE, PRIVATE

DETENTION

To -25'x25' CORNER VISION TRIANGLE

PARCEL NO. 20-15-451-042

PART OF SOUTHEAST 1/4 OF SECTION 14

REMOVE ALL STAKING MATERIALS AFTER 1 YEAR.

THROUGH A HOSE.)

SITE IF NECESSARY TO AVOID UTILITIES, STRUCTURES, DRIVEWAYS, ETC. 2. ANY SUBSTITUTIONS OF PLANT MATERIAL OR ALTERATION IN PLANT SIZES OR SPECIFICATIONS SHALL BE IN ACCORDANCE WITH CITY OF TROY ORDINANCE STANDARDS. ALL STREET TREES SHALL MEET THE MINIMUM SIZE, SPACING AND SPECIES REQUIREMENTS AS SET FORTH IN THE CITY OF TROY'S ZONING ORDINANCE, SECTION 13.02.H. "MINIMUM SIZE AND

PLANTING NOTES

SPACING REQUIREMENTS" AND SECTION 13.02.I. "PROHIBITED SPECIES". 3. ALL LARGE TREES AND EVERGREENS TO BE STAKED, GUYED, AND WRAPPED.

1. ALL CONSTRUCTION AND PLANT MATERIAL LOCATIONS TO BE ADJUSTED ON

4. PLANT BEDS TO BE MULCHED AND DRESSED WITH 4" OF SHREDDED HARD

5. DIG SHRUB PITS 1' LARGER THAN SHRUB ROOT BALLS AND TREE PITS 2' LARGER THAN ROOT BALLS. BACKFILL WITH ONE PART TOP SOIL FROM EXCAVATED PLANTING HOLE.

6. REMOVE ALL TWINE, WIRE, AND BURLAP FROM THE TREE AND SHRUB

EARTH BALLS AND FROM TREE TRUNKS. 7. LAWN TREES TO BE MULCHED WITH A 2' WIDE MINIMUM OF 6" DEEP SHREDDED BARK RING OR APPROVED ALTERNATE DESIGN FOR TRUNK

8. PROVIDE HYDRO-SEEDING AND/OR SOD FOR ALL NEW LAWN AREAS.

10. PLANT MATERIAL, ESPECIALLY EVERGREENS, TO BE PLANTED HIGHER THAN NORMAL WHEN HEAVY SOIL CONDITIONS (CLAY, ETC.) PREVAIL.

AND FERTILIZER BEFORE PLANT INSTALLATION.

DISTANCES FROM SIDEWALKS, CURBS, AND PARKING STALLS: SHADE TREES..... ORNAMENTAL AND EVERGREEN TREES......10 FT.

SHRUBS THAT ARE LESS THAN 1 FOOT TALL AND WIDE AT MATURITY.....

13. NO TREES OR EVERGREENS TO BE INSTALLED OVER ANY PROPOSED OR EXISTING UTILITY LINES AS SHOWN ON THE OVERALL LANDSCAPE PLAN. REFER TO ENGINEERING PLANS FOR EXACT LOCATIONS OF UTILITY LINES.

14. FOR EXISTING TREE PROTECTION, A 4-FOOT HIGH ORANGE SNOW FENCE SHALL BE ERECTED AROUND TREE DRIP LINES PRIOR TO LAND CLEARING AND SITE CONSTRUCTION AND MAINTAINED THROUGHOUT SITE DEVELOPMENT PERIOD. NO CUTTING, FILLING OR TRESPASSING SHALL OCCUR INSIDE FENCED AREAS WITHOUT PRIOR CITY APPROVAL.

-PROPOSED DECIDUOUS TREES (TYPICAL) —

Gt

-PROPOSED CONIFEROUS -WOOD PRIVACY FENCE

RIM 668.38 →

TELE. RISER-

LOT 38 PARCEL NO. 20-15-451-041

TELE. RISERS -

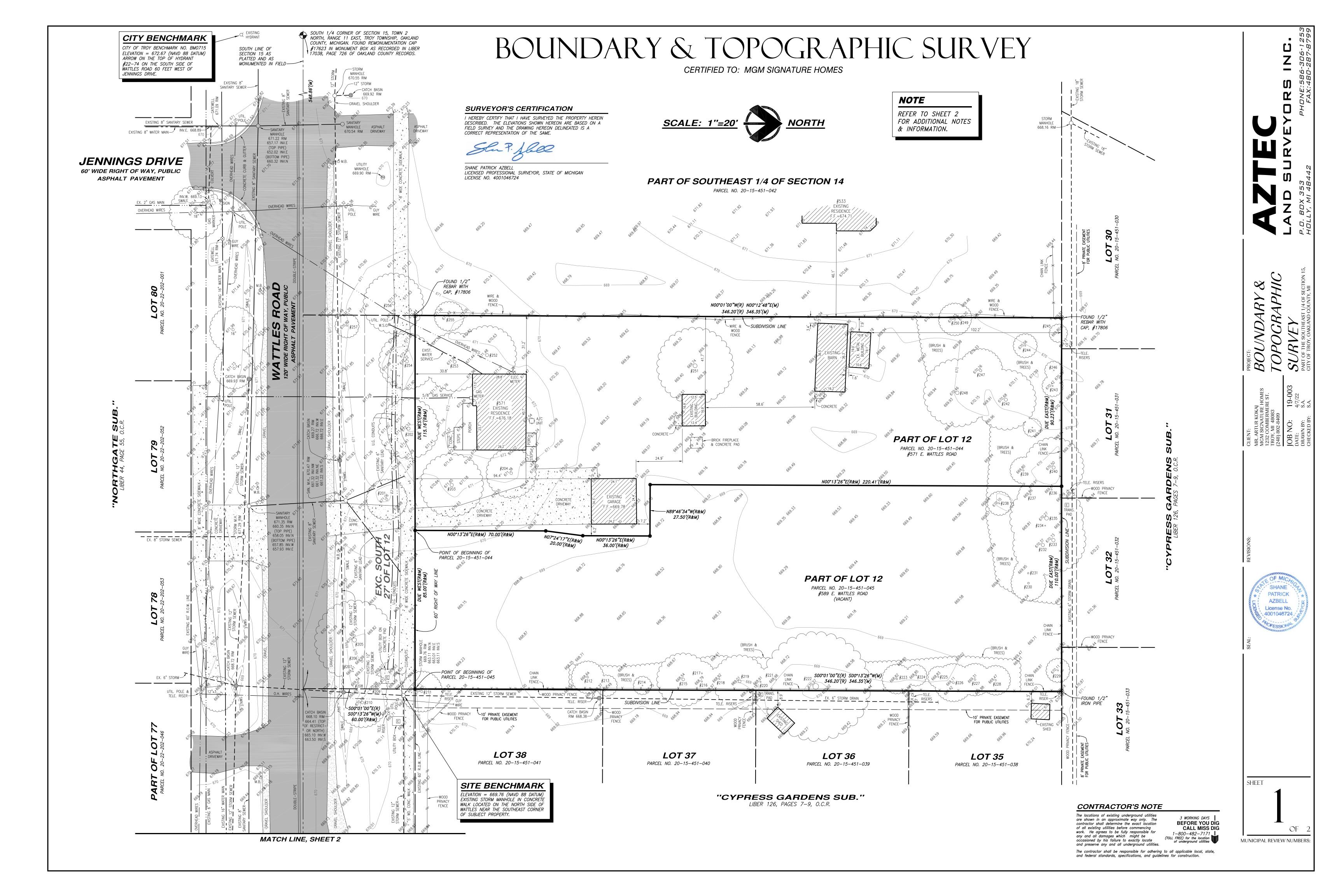
"CYPRESS GARDENS SUB." LIBER 126, PAGES 7-9, O.C.R.

CHAIN LINK FENCE

EX. 6" STORM DRAIN

WOOD PRIVACY

FENCE-



BOUNDARY & TOPOGRAPHIC SURVEY

CERTIFIED TO: MGM SIGNATURE HOMES

Gleditsia triacanthos Inermis Thornless Honeylocust

Ulmus spp.

Morus spp.

Pinus strobus

Pinus sylvestris

Acer negundo

Picea pungens

Pinus sylvestris

Populus deltoides

Pinus sylvestris

Pinus sylvestris

Pinus sylvestris

Pinus sylvestris

Picea pungens

Acer negundo

Acer rubrum

Acer negundo

Acer negundo

Ulmus americana

Acer saccharinum

Acer negundo

Acer negundo

Acer negundo

Acer negundo

Acer negundo

Quercus spp

Tilia spp.

Acer rubrum

Quercus spp.

Morus spp.

Acer saccharinun

Acer saccharinum

Picea abies

Ulmus pumilo

205

207

208

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220

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237

238

240

241

242

244

248

249

252

253

254

255

256

257

239 9/6/4

243 7 / 4 / 4

230 12 / 7 / 4

213 7/5/3

214 5/3/...

White Pine

Hickory

Elm

Colorado Spruce

Oak (red family)

Oak (white family)

Siberian Elm

Mulberry

White Pine

Scotch Pine

Scotch Pine

Cottonwood

Scotch Pine

Scotch Pine

Scotch Pine

Scotch Pine

Boxelder

Red Maple

Silver Maple

Silver Maple

Silver Maple

Boxelder

Boxelder

Boxelder

Mulberry

Silver Maple

American Elm

Black Cherry

Silver Maple

Boxelder

Boxelder

Boxelder

Boxelder

Boxelder

Boxelder

Boxelder

Siberian Elm Oak (white family)

White Pine

Linden

Walnut

Mulberry

Red Maple

Oak (red family)

Colorado Spruce

Colorado Spruce

Norway Spruce

Colorado Spruce

Colorado Spruce

Boxelder

Boxelder

Fir



MATCH LINE, SHEET 1 --- CONCRETE CURB CONCRETE MONUMENT SEC! AND & ADA RAMP → CONCRETE CYPRESS DRIVE APPROACH 668.98 RIM 658.93 INV.W 60' WIDE RIGHT OF WAY, PUBLIC END OF RUN CONCRETE PAVEMENT 669.09 RIM 661.84 INV.W TREE INVENTORY AS SURVEYED ON APRIL 1, 2022 BY ERIC A. OLSON, PLLC, LANDSCAPE ARCHITECT AND CERTIFIED ARBORIST. # d.b.h. Zone (feet) Botanical Name 202 203 204 SOUTHEAST CORNER OF SECTION 15,

TOWN 2 NORTH, RANGE 11 EAST, TROY TOWNSHIP OAKLAND COUNTY

MICHIGAN. FOUND REMONUMENTATION

CAP #17623 IN MONUMENT BOX AS

RECORDED IN LIBER 17038. PAGE 728 OF OAKLAND COUNTY RECORDS.

SURVEYOR'S NOTES

THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES OTHER THAN THE STRUCTURE INVENTORY SHOWN HEREON.

- 2. A CURRENT TITLE POLICY HAS NOT BEEN FURNISHED AT TIME OF SURVEY, THEREFORE EASEMENTS AND/OR ENCUMBRANCES AFFECTING SUBJECT PARCEL MAY NOT BE SHOWN.
- 3. ALL PROPERTY SPLITS REQUIRE PRIOR CITY, TOWNSHIP, COUNTY, AND/OR STATE APPROVAL.

SURVEYOR'S CERTIFICATION

DESCRIBED. THE ELEVATIONS SHOWN HEREON ARE BASED ON A FIELD SURVEY AND THE DRAWING HEREON DELINEATED IS A

I HEREBY CERTIFY THAT I HAVE SURVEYED THE PROPERTY HEREIN

Condition Comments

- Excessive pitch on trunk

Extensive rot & dead branches

Growing into overhead utilities

Lower/shaded branches dead/missing

Lower/shaded branches dead/missing

Lower/shaded branches dead/missing

Dead branch(es)

Contorted crown

50% or more dead

Contorted crown

Contorted crown

'V'-shaped crotch(es)

'V'-shaped crotch(es)

Smaller trunk(s) dead

1-sided crown

Dead branch(es)

Contorted crown

Contorted crown

Dead branch(es)

Contorted crown

Contorted crown

Dead branch(es)

Dead branch(es)

Dead branch(es)

Broken branch(es)

- Hollow/extensive rot

Rot in trunk

Lean > 45 degrees

Grown into fence/wires

Partially fallen over & significantly dead

- Dead major branches & contorted crown

good

good

good

'V'-shaped crotch(es)

Stunted, yellowing foliage, dead/dying branches

Utility-pruned, contorted stem, & galls on trunk

Utility-pruned, contorted stem, & galls on trunk

Stunted, yellowing foliage, dead/dying branches

Dead branches & excessive pitch on trunk

Lower/shaded branches dead/missing

Partially uprooted / knocked over

Dead leader & dead/dying branches

- Dead branches & excessive pitch on trunk

- Dead branches & excessive pitch on trunk

Stunted, yellowing foliage, dead/dying branches

Broken branches, severe lean, grown into neighboring tree, & dead branches

SHANE PATRICK AZBELL LICENSED PROFESSIONAL SURVEYOR, STATE OF MICHIGAN LICENSE NO. 4001046724

PROPERTY DESCRIPTIONS:

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Health (N) Not Regulated

43%

23%

47%

43%

47%

37%

33%

43%

47%

47%

40%

47%

Score (s = size, sp = species, c = condition) (L)

N (c)

N (c)

N (c)

N (c)

N (sp)

N (s, sp)

N (s, sp)

N (c)

N (c)

N (sp)

N (s, sp)

N (sp)

N (sp)

N (s, sp)

N (sp)

N (s, sp)

N (sp)

N (sp)

N (sp)

N (s)

N (sp)

N (s, sp)

N (sp)

N (s, sp)

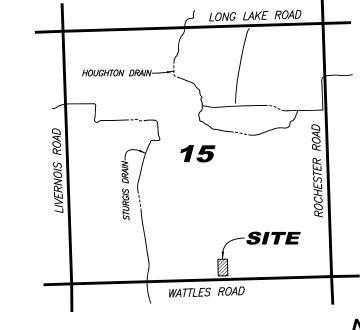
N (s, sp)

N (s, sp)

N (sp)

N (s, sp)

N (c)



LOCATION MAP SCALE: 1" = 2000'

PARCEL AREAS

AS SURVEYED:

PARCEL NO. 20-15-451-044 TOTAL = 34,501.47 SQUARE FEET = 0.792 ACRE PARCEL NO. 20-15-451-044 TOTAL = 34,836.78 SQUARE FEET = 0.800 ACRE

BASIS OF BEARING

DUE WEST ALONG THE SOUTH LINE OF SECTION 15 AS PLATTED AND AS MONUMENTED IN FIELD.

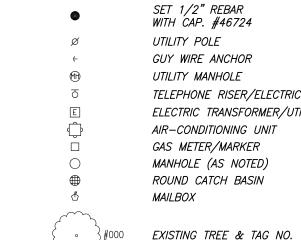
BENCHMARKS

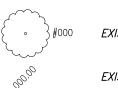
ELEVATION = 672.67 (NAVD 88 DATUM)ARROW ON THE TOP OF HYDRANT #22-74 ON THE SOUTH SIDE OF WATTLES ROAD 60" FEET WEST OF JENNINGS DRIVE.

SITE BENCHMARK ELEVATION = 669.76 (NAVD 88 DATUM)EXISTING STORM MANHOLE IN CONCRETE WALK LOCATED ON THE NORTH SIDE OF WATTLES NEAR THE SOUTHEAST CORNER OF SUBJECT PROPERTY.

FLOOD NOTE

SUBJECT PROPERTY IS LOCATED WITHIN ZONE X, AREAS OUTSIDE OF THE 0.2% ANNUAL CHANCE (500-YEAR) FLOOD PLAIN AS PER FLOOD INSURANCÉ RATE MAP NUMBER 26125C0534F, NATED SEPTEMBER 29. 2006, AS PUBLISHED THE FEDERAL EMERGENCY MANAGEMENT AGENCY.





9	
	PARCEL BOUNDARY
	ADJACENT PARCEL
	SECTION LINE
	EXISTING EASEMENT LINE
	EXISTING BUILDING
000	EXISTING CONTOUR
··	EXISTING OVERHEAD LINES
	EXISTING PAVEMENT AS NO
	EXISTING PAVEMENT STRIPIN
	EXISTING SANITARY LINE
	EXISTING STORM LINE
	EXISTING WATER LINE
	EXISTING GAS LINE

_____ _____

---- - CENTERLINE OF DITCH/SWALE

OTED EXISTING UNDERGROUND LINE EXISTING FENCES EDGE BRUSH & TREES

CONTRACTOR'S NOTE

(TOLL FREE) for the location of underground utilities and preserve any and all underground utilities The contractor shall be responsible for adhering to all applicable local, state,

3 WORKING DAYS

1-800-482-7171 **[**

BEFORE YOU DIG

CALL MISS DIG

SHEET

MUNICIPAL REVIEW NUMBERS

The locations of existing underground utilities are shown in an approximate way only. The contractor shall determine the exact location of all existing utilities before commencing work. He agrees to be fully responsible for any and all damages which might be occasioned by his failure to exactly locate

and federal standards, specifications, and guidelines for construction.

LEGEND FOUND MONUMENT AS NOTED

TELEPHONE RISER/ELECTRIC METER ELECTRIC TRANSFORMER/UTILITY BOX

EXISTING TREE & TAG NO. EXISTING ELEVATION

PATRICK **AZBELL** License No. 4001046724



Emerald - FIRST FLOOR PLAN

3,250 Sq. FT.



Emerald - SECOND FLOOR PLAN

3,250 Sq. FT.

J&J Bath

W.I.C.

Bedroom #3

Bonus Loft at Master Suite











XXXX AXEL ST

GENERAL NOTES

DO NOT SCALE DRAWINGS, USE PRINTED DIMENSIONS ONLY. IF ANY DISCREPANCY OCCURS NOTIFY THE ARCHITECT IMMEDIATELY FOR DIRECTION.

ALL POURED CONC. FTGS. SHALL EXTEND TO A MINIMUM DEPTH OF 42" BELOW PROPOSED FINISHED GRADE IN ACCORDANCE WITH 2015 MICHIGAN RESIDENTIAL CODE, AND SHALL BEAR ON VIRGIN, UNDISTURBED SOIL. ADDITIONAL DEPTH MAY BE REQUIRED AS DICTATED BY SOIL CONDITIONS. ALLOWABLE SOIL BEARING PRESSURE OF 3000 P.S.F. IS ASSUMED FOR FOOTING SIZES SHOWN ON PLAN. VERIFICATION OF ALLOWABLE SOIL BEARING CAPACITY OF 3000 P.S.F. AT EACH JOBSITE IS RESPONSIBILITY OF CONTRACTOR AND SHALL MEET MINIMUM 2009 MICHIGAN RESIDENTIAL CODE. QUESTIONABLE SOIL CONDITIONS ARE TO BE INVESTIGATED BY A QUALIFIED SOILS ENGINEER.

ALL POURED CONC. WALLS WITH BRICK LEDGE GREATER THAN 4'-0" SHALL BE REINFORCED WITH #5 BARS 24" O.C. VERTICALLY WITH ONE #4 BAR TOP AND BOTTOM OF WALL HORIZONTALLY OR EQUAL.

ALL POURED CONC. WALLS TO BE BACKFILLED WITH SUITABLE TYPE BACKFILL MATERIAL THAT IS NOT WET CLAY OR IN FROZEN CHUNKS AND BE WELL BRACED UNTIL CONC. IS THOROUGHLY CURED AND ADDITIONAL WEIGHT OF THE BUILDING IS IN PLACE. BACKFILLING SHALL COMPLY WITH THE 2009 MICHIGAN RESIDENTIAL

ALL POURED CONC. WALLS WITH 7'-0" OR MORE BACKFILL TO BE REINFORCED WITH #4 BARS 16" O.C. VERTICALLY WITH ONE #4 BAR TOP AND BOTTOM OF WALL HORIZONTALLY. ALTERNATE: #5 BARS 24" O.C. VERTICALLY WITH ONE #4 BAR TOP AND BOTTOM OF WALL HORIZONTALLY.

ALL WINDOW NUMBERS REFER TO GENERIC WINDOW SIZES. NOTES REFER TO WIDTH BY LENGTH CALLED OFF IN FEET AND INCHES; EX: 3050 SH = 3'-0" WIDE BY 5'-0" TALL SINGLE HUNG. WINDOW MANUFACTURER TO MATCH ALL SIZES AND SHAPES DIMENSIONALLY. ANY VARIATIONS TO BE VERIFIED WITH ARCHITECT.

PROVIDE WIND BRACING IN CONFORMANCE WITH 2015 MICHIGAN RESIDENTIAL

ALL EGRESS WINDOWS SHALL HAVE THE BOTTOM OF THE CLEAR OPENING NOT MORE THAN 44" ABOVE THE FLOOR, HAVE A NET CLEAR OPENING OF 5.7 SQ. FT., HAVE A MIN. CLEAR HEIGHT DIM. OF 24" AND A MIN. CLEAR OPENING WIDTH DIM. OF 20".

ROOF TRUSS DESIGN BY TRUSS MANUFACTURER TO CONFORM TO ALL MINIMUM DESIGN LOAD REQUIREMENTS AND BUILDER TO BRACE ROOF TRUSSES AS REQUIRED BY MANUFACTURERS DETAILED DRAWINGS.

ROOF TRUSS FRAMING INDICATED ON DRAWINGS IS OUR ASSUMED LAYOUT. TRUSS MANUFACTURER SHALL REVIEW THE DRAWINGS AND INDICATE TO ARCHITECT, PRIOR TO FABRICATION, ANY CHANGE IN BEARING CONDITIONS THAT WOULD REQUIRE RE-FRAMING OF OUR STRUCTURE TO ACCOMMODATE TRUSSES.

BUILDER MUST PROVIDE TRUSS DESIGN DATA (R106.1.4) AT TIME OF PERMITTING OR PROVIDE TRUSS DESIGN DRAWINGS PRIOR TO INSTALLATION OF TRUSSES.

ALL CONVENTIONAL FRAMING HEADERS, BEAMS AND RAFTERS 2 x 10 AND LESS TO BE #2 OR BETTER HEM FIR. ALL 2 x 12'S TO BE #2 OR BETTER DOUGLAS FIR.

FLOOR JOIST LOADING CRITERIA

FIRST FLOOR LOADING: LIVE LOAD 40 P.S.F.

DEAD LOAD 15 P.S.F. TOTAL LOAD 55 P.S.F. LIVE LOAD DEFLECTION L/480 TOTAL LOAD DEFLECTION L/240

SECOND FLOOR LOADING: LIVE LOAD 40 P.S.F.

DEAD LOAD 10 P.S.F. TOTAL LOAD 50 P.S.F. LIVE LOAD DEFLECTION L/480 TOTAL LOAD DEFLECTION L/240

FLOOR W/CERAMIC TILE/MARBLE: LIVE LOAD 40 P.S.F.

DEAD LOAD 25 P.S.F. TOTAL LOAD 65 P.S.F. LIVE LOAD DEFLECTION L/720 TOTAL LOAD DEFLECTION L/360

EXT. DECK JOIST LOADING CRITERIA LIVE LOAD 50 P.S.F. TOTAL LOAD 60 P.S.F.

LIVE LOAD DEFLECTION L/360 TOTAL LOAD DEFLECTION L/240

ROOF TRUSS LOADING CRITERIA TOP CHORD LIVE LOAD 30 P.S.F.

> DEAD LOAD 7 P.S.F. BOTT. CHORD LIVE LOAD 10 P.S.F. (UNINHABITABLE ATTICS W/OUT STORAGE)

LIVE LOAD 20 P.S.F. (UNINHABITABLE ATTICS WITH STORAGE)

DEAD LOAD 10 P.S.F.

VERIFY AREAS OF DROPPED FLOORS FOR CERAMIC TILE WITH BUILDER AND COORDINATE ALL CERAMIC TILE AREAS SHOWN AND NOT SHOWN WITH I-JOIST MANUFACTURER OR ARCHITECT FOR PROPER DESIGN.

WITH THE 2009 MICHIGAN RESIDENTIAL CODE IN RELATED AREAS ALL SMOKE DETECTORS TO BE INTER-CONNECTED W/ BATTERY BACKUP IN

APPLY WATER-RESISTANT GYPSUM BACKER BOARD TO ALL AREAS SUBJECT TO

REPEATED DAMP CONDITIONS AND MOISTURE ACCUMULATION AS WELL AS COMPLY

ALL STAIRWAYS, STAIRWAY GUARDS, HANDRAILS, BALUSTERS, HANDRAIL GRIP SIZE AND HEADROOM REQUIREMENTS TO COMPLY WITH 2015 MICHIGAN RESIDENTIAL CODE REQUIREMENTS.

ALL I-JOISTS ARE DESIGNED WITH TRUSS JOIST MAVERICK DESIGN STANDARDS AND ARE TO BE INSTALLED PER MANUFACTURER SPECIFICATIONS.

ALL L.V.L. BEAMS AND HEADERS TO HAVE A MINIMUM 2 STUD BEARING @ EACH END UNLESS NOTED OTHERWISE

COMPLIANCE WITH 2015 MICHIGAN RESIDENTIAL BUILDING CODE

ALL LAMINATED VENEER LUMBER (L.V.L.) TO HAVE A MODULUS OF ELASTICITY OF 1.9 (E=1.9) AND ARE TO BE JOINED TOGETHER PER MANUFACTURERS SPECIFICATIONS.

ALL LAMINATED STRAND LUMBER (TIMBERSTRAND/ L.S.L.) TO HAVE A MODULUS OF ELASTICITY OF 1.5 (E=1.5) AND ARE TO BE JOINED TOGETHER PER MANUFACTURERS SPECIFICATIONS.

I-JOIST LAYOUT AND DETAILS ARE FOR REFERENCE ONLY, AND ALL FLOOR SYSTEMS AND DETAILS SHALL BE VERIFIED BY I-JOIST MANUFACTURER LAYOUT PLAN THAT IS COORDINATED WITH APPROVED ROOF TRUSS LAYOUT. A FLASHING INSPECTION IS REQUIRED PRIOR TO THE INSTALLATION OF A FULL WALL OF BRICK, AND SHALL COMPLY WITH THE 2015 MICHIGAN

ALL HOLES NOTCHES CUT OR BORED INTO I-JOIST'S OR L.V.L.'S TO BE IN

NO. 15 FELT PAPER OR APPROVED WEATHER RESISTANT MATERIAL (R703.2) TO BE ATTACHED TO SHEATHING FLASHING BEHIND ANY VENEERS OF BRICK, CLAY, TILE, CONCRETE, OR NATURAL/ARTIFICIAL STONE AND SHALL COMPLY WITH THE 2015 MICHIGAN RESIDENTIAL CODE (TABLE R703.4)

ALL MASONRY VENEER WALLS TO BE PROVIDED WITH WALL TIES & WEEPHOLES PER CURRENT CODES INCLUDING COMPLIANCE WITH THE 2009 MICHIGAN RESIDENTIAL CODE WHEN INSTALLING STONE AND MASONRY VENEERS.

ALL FOOTINGS ARE DESIGNED FOR 3000 P.S.F. IT IS THE RESPONSIBILITY OF THE BUILDER TO FIELD TEST THE SOIL AND TO CONTACT THE ARCHITECT AND / OR ENGINEER IF THE SOIL CAPACITY IS UNDER 3000 P.S.F.

AREAS THAT REQUIRE SAFETY GLAZING UPDATED FOR THE 2015 MICH. RESIDENTIAL CODE R308.4 HAZARDOUS LOCATIONS. THE LOCATIONS SPECIFIED IN SECTIONS R308.4.1 THROUGH R308.4.7 SHALL BE CONSIDERED TO BE SPECIFIC HAZARDOUS LOCATIONS FOR THE PURPOSES OF

R308.4.1 GLAZING IN DOORS. GLAZING IN FIXED AND OPERABLE PANELS OF SWINGING, SLIDING AND BIFOLD DOORS SHALL BE CONSIDERED TO BE A HAZARDOUS LOCATION.

R308.4.2 GLAZING ADJACENT TO DOORS. GLAZING IN AN INDIVIDUAL FIXED OR OPERABLE PANEL ADJACENT TO A DOOR SHALL BE CONSIDERED TO BE A HAZARDOUS LOCATION WHERE THE BOTTOM EXPOSED EDGE OF THE GLAZING IS LESS THAN 60 INCHES (1524

MM) ABOVE THE FLOOR OR WALKING SURFACE AND IT MEETS EITHER OF THE FOLLOWING CONDITIONS: 1. WHERE THE GLAZING IS WITHIN 24 INCHES (610 MM) OF EITHER SIDE OF THE DOOR IN THE PLANE OF THE DOOR IN A CLOSED POSITION. 2. WHERE THE GLAZING IS ON A WALL PERPENDICULAR TO THE PLANE OF THE DOOR IN A

CLOSED POSITION AND WITHIN 24 INCHES (610 MM) OF THE HINGE SIDE OF AN IN-SWINGING DOOR.

R308.4.3 GLAZING IN WINDOWS. GLAZING IN AN INDIVIDUAL FIXED OR OPERABLE PANEL THAT MEETS ALL OF THE FOLLOWING CONDITIONS SHALL BE CONSIDERED TO BE A HAZARDOUS LOCATION: 1. THE EXPOSED AREA OF AN INDIVIDUAL PANE IS LARGER THAN 9 SQUARE FEET (0.836 M2),

2. THE BOTTOM EDGE OF THE GLAZING IS LESS THAN 18 INCHES (457 MM) ABOVE THE FLOOR, 3. THE TOP EDGE OF THE GLAZING IS MORE THAN 36 INCHES (914 MM) ABOVE THE FLOOR; AND 4. ONE OR MORE WALKING SURFACES ARE WITHIN 36 INCHES (914 MM), MEASURED HORIZONTALLY AND IN A STRAIGHT LINE,

R308.4.4 GLAZING IN GUARDS AND RAILINGS. GLAZING IN GUARDS AND RAILINGS, INCLUDING STRUCTURAL BALUSTER PANELS AND NONSTRUCTURAL IN-FILL PANELS, REGARDLESS OF AREA OR HEIGHT ABOVE A WALKING SURFACE SHALL BE CONSIDERED TO BE A HAZARDOUS LOCATION

R308.4.5 GLAZING AND WET SURFACES. GLAZING IN WALLS, ENCLOSURES OR FENCES CONTAINING OR FACING HOT TUBS, SPAS, WHIRLPOOLS, SAUNAS, STEAM ROOMS, BATHTUBS, SHOWERS AND INDOOR OR OUTDOOR SWIMMING POOLS WHERE THE BOTTOM EXPOSED EDGE OF THE GLAZING IS LESS THAN 60 INCHES (1524 MM) MEASURED VERTICALLY ABOVE ANY STANDING OR WALKING SURFACE SHALL BE CONSIDERED TO BE A HAZARDOUS LOCATION. THIS SHALL APPLY TO SINGLE GLAZING AND EACH PANE IN MULTIPLE GLAZING.

R308.4.6 GLAZING ADJACENT TO STAIRS AND RAMPS. GLAZING WHERE THE BOTTOM EXPOSED EDGE OF THE GLAZING IS LESS THAN 36 INCHES (914 MM) ABOVE THE PLANE OF THE ADJACENT WALKING SURFACE OF STAIRWAYS, LANDINGS BETWEEN FLIGHTS OF STAIRS AND RAMPS SHALL BE CONSIDERED TO BE A HAZARDOUS LOCATION.

R308.4.7 GLAZING ADJACENT TO THE BOTTOM STAIR LANDING. GLAZING ADJACENT TO THE LANDING AT THE BOTTOM OF A STAIRWAY WHERE THE GLAZING IS LESS THAN 36 INCHES (914 MM) ABOVE THE LANDING AND WITHIN A 60-INCH (1524 MM) HORIZONTAL ARC LESS THAN 180 DEGREES FROM THE BOTTOM TREAD NOSING SHALL BE CONSIDERED TO BE A HAZARDOUS LOCATION.

ALL WOOD TRIM BOARDS TO BE PACKED OUT 1/2" FROM FRAMING

EGRESS WINDOW REQUIREMENTS

* MIN. NET CLEAR OPENING OF 5.7 SQ. FT. (SECOND FLOOR BEDROOMS)

* MIN. NET CLEAR OPENING OF 5.0 SQ. FT. (FIRST FLOOR BEDROOMS ONLY)

* MIN. NET CLEAR OPENING HT. OF 24 INCHES

* MIN. NET CLEAR OPENING WIDTH OF 20 INCHES

* MAX. SILL HT. ABOVE FINISH FLOOR OF 44 INCHES

ALLOWABLE SPANS FOR LINTELS SUPPORTING MASONRY VENEER A,B,C

ANGLE SIZE	BEARING TO FASCIA	BEARING ONE LEVEL ABOVE	BEARING TWO LEVELS ABOVE	# OF \" REINFORCING BARS REQ.
3 X 3 X 1/4"	6'-0"	4'-6"	3'-0"	1
4 X 3 X 1/4"	8'-0"	6'-0"	4'-6"	1
5 X 3\ X 5/16"	10'-0"	8'-0"	6'-0"	2
6 X 3\ X 5/16"	14'-0"	9'-6"	7'-0"	2
2-6 X 3\ X 5/16"	20'-0"	12'-0"	9'-6"	4

A. LONG SIDE OF ANGLE TO BE PLACED IN A VERTICAL POSITION.

B. REINFORCED LINTELS SHALL NOT BE LESS THAN 8 IN. TALL & ALL CELLS OF HOLLOW MASONRY LINTELS TO BE GROUTED SOLID. REINFORCEMENT SHALL NOT EXTEND LESS THAN 8 INCHES INTO THE SUPPORTING UNIT.

C. ABOVE ITEMS ARE EXAMPLES: OTHER STEEL MEMBERS MEETING STRUCTURAL DESIGN REQUIREMENTS MAY BE USED.

SECTION R703.7.2.2: STEEL ANGLES SUPPORTING BRICK VENEER THAT IS LAG BOLTED TO ROOF CONSTRUCTION WITH SLOPES GREATER THAN 7:12 BUT NOT MORE THAN 12:12 SHALL HAVE STOPS OF A MINIMUM 3 INCHES X 3 INCHES X 1/4 INCH STEEL PLATE WELDED TO THE STEEL ANGLE AT 24 INCHES ON CENTER ALONG THE ANGLE OR AS APPROVED BY THE BUILDING OFFICIAL

NOTE:

AIR LEAKAGE TEST SHALL DONE. PER MEUC 2015 SEC R 402.4

BUILDING CODES MICHIGAN RESIDENTIAL CODE 2015

MINIMUM REQ. ATTIC **VENTILATION**

ATTIC VENTILATION SHALL BE PROVIDED IN THE AMOUNT OF 1 SQ. FT. NET VENTILATION PER 300 SQ. FT. OF ATTIC SPACE W/ 50% PROVIDED BY GABLE ROOF AND/OR RIDGE VENTS AND THE BALANCE OF REQUIRED VENTILATION PROVIDED BY EAVE OR CORNICE VENTS.

	INDEX OF DRAWINGS				
1	GENERAL NOTES, LOCATION KEY				
2	FOUNDATION PLAN				
3	FIRST FLOOR PLAN, NOTES				
4	SECOND FLOOR				
5	EXTERIOR ELEVATIONS				
6	EXTERIOR ELEVATIONS				
7	WALL SECTIONS, DETAILS				

SQUARE FOOTAGE

FIRST FLOOR AREA SECOND FLOOR AREA

TOTAL HOUSE AREA: 3,246 SF

1,589 SF

1,657 SF

OWNER CONTACT: ARTUR KOKAJ CELL: 248-802-8409





S

SSO (NSHIP, MI. DESIGN V DRIVE, COMMERCE PH. (248) 802-ARK

ISSUED: SPA 05-10-2022

> AK AK

DO NOT SCALE DIMENSIONS ONLY

PROPOSED

RESIDENCE

DO NOT SCALE
PRINTS - USE
FIGURED
DIMENSIONS ONLY

2021–34

PROPOSED RESIDENCE

47'-8" 6'-4" -WINDOW WELL TO BE FILLED W/ PEA GRAVEL DOWN TO TOP OF HOUSE DRAIN TILE. TIE DRAIN INTO HOUSE DRAIN TILE FROM BOTTOM OF WINDOW 6'-8" SASH | 4040 SL. WELL SEALED FOR RADON LOCATION T.B.D. BY BUILDER SUMP BASEMENT 4" CONC. FLOOR OVER 6 MIL. VISQUEEN OVER MIN. 4" COMP. SAND BASE 10" THICK POURED CONC. WALL ON 18" X 10" POURED CONC. FTG. (7'-10" POUR UNLESS NOTED OTHER) CENTER CENTER CENTER OF POST OF POST OF POST OF POST 10'-6" 10'-6" 10'-6" FLUE — 3" I.D. X 7.58" STD. STL PIPE COLUMN ON 30"X30"X16" R. CONC. FOOTING. SPLICE BEAM OVER POST W8X18 2 PLY 11 7/8" LVL 31'-8" 20'-9" OPTIONAL 3PC PLMB (LOCATION TBD LEAD WALL ----|-----12'-3" 19'-9" 1'-0" LOCATION TBD BY SEWER LEAD LOCATION UNEXCAVATED 4" CONC. FLOOR OVER 6 MIL. VISQUEEN OVER MIN. 4" COMP. SAND BASE PORCH FTG. EXC. AND FORM W BSMT WALLS— --LEAD WALL 12" P. CONC. TRENCH FTG. 3'—6" MIN. BELOW FIN. . GRADE BRG. ON UNDIST. SOIL — 4" CONC. SLAB REIF. W/ 6" X 6" 10 GA. WIRE MESH.

54'-0"

11'-7"

54'-0"

9'-3"

21'-10"

NOT

WINDOW WELLS WITH A DEPTH
GREATER THAN 44" BELOW GRADE
SHALL BE EQUIPPED WITH A
PERMANENTLY AFFIXED LADDER OR
STEPS USABLE WITH THE WINDOW IN
THE FULLY OPEN POSITION.

NOTE

WINDOW WELL SHALL HAVE HORIZ.
DIMENSIONS THAT PROVIDE A MIN. NET
CLEAR AREA OF 9 SQ. FT. WITH A MIN
HORIZ. PROJECTION AND WIDTH OF 36".

NOTE:

CONCRETE STRENGTH FOR GARAGE FLOORS, PORCHES AND STEPS SHALL BE A MINIMUM OF 3500 P.S.I. WITH AIR ENTRAINMENT PER SECTION R402.2 (TABLE R402.2)

NOTE

BASEMENT NOT CURRENTLY DESIGNED AS A HABITABLE SPACE. THE SPACE IS CURRENTLY DESIGNED FOR STORAGE, TOILET AND UTILITY SPACES. PER SECTION 106.1 OF THE CODE, BASEMENT WILL NOT REQUIRE AN EMERGENCY ESCAPE, RESCUE WINDOW OR EXTERIOR DOOR.

NOTE:

POURED CONCRETE WALLS SHALL BE
VIBRATED IN 20" MAXIMUM LIFTS DURING
THE POURING OPERATION IN
ACCORDANCE WITH THE AMERICAN
CONCRETE INSTITUTE.

ALL INTERIOR AND EXTERIOR STAIRWAYS SHALL BE PROVIDED WITH A MEANS TO ILLUMINATE THE STAIRS, INCLUDING THE LANDINGS AND TREADS. INTERIOR STAIRWAYS SHALL BE PROVIDED WITH AN ARTIFICIAL LIGHT SOURCE LOCATED IN THE IMMEDIATE VICINITY OF EACH LANDING OF THE STAIRWAY. FOR INTERIOR STAIRS THE ARTIFICIAL LIGHT SOURCES SHALL BE CAPABLE OF ILLUMINATING TREADS AND LANDINGS TO LEVELS NOT LESS THAN 1 FOOT-CANDLES MEASURED AT THE CENTER OF TREADS AND LANDINGS. EXTERIOR STAIRWAYS SHALL BE PROVIDED WITH AN ARTIFICIAL LIGHT SOURCE LOCATED IN THE IMMEDIATE VICINITY OF THE TOP LANDING OF THE STAIRWAY. EXTERIOR STAIRWAYS PROVIDING ACCESS TO A BASEMENT FROM THE OUTSIDE GRADE LEVEL SHALL BE PROVIDED WITH AN ARTIFICIAL LIGHT SOURCE LOCATED IN THE IMMEDIATE VICINITY OF THE BOTTOM LANDING OF THE STAIRWAY. THE LIGHTING AND SWITCHING OF THE STAIRWELL WILL BE INSPECTED AN ELECTRICAL INSPECTOR.

FIRE SEPARATION NOTE FOR LIVING SPACE ABOVE GARAGE

FOR LIVING SPACE ABOVE GARAGE

FIRE SEPARATION (R309)

GARAGE SPACE BENEATH HABITABLE ROOMS SHALL BE SEPARATED

FROM ALL HABITABLE ROOMS ABOVE BY NOT LESS THAN 5/8-INCH

TYPE X GYPSUM BOARD OR EQUIVALENT. WHERE THE SEPARATION

IS A FLOOR-CEILING ASSEMBLY, THE STRUCTURE SUPPORTING THE

SEPARATION SHALL ALSO BE PROTECTED BY NOT LESS THAN

1/2-INCH GYPSUM BOARD OR EQUIVALENT. ALL OTHER GARAGE

SPACE SHALL BE SEPARATED FROM THE RESIDENCE AND ITS ATTIC

AREA BY NOT LESS THAN 1/2-INCH GYPSUM BOARD APPLIED TO

THE GARAGE SIDE. DROP CLG. UNDER FLR. ABV. (ENCLOSE

MECHANICAL AND STRUCTURAL ELEMENTS) VERIFY W/ BLDR.

NOTE

LANDINGS AT DOORS (R311.4.3)
THERE SHALL BE A FLOOR OR LANDING ON EACH SIDE OF EACH EXTERIOR DOOR. WHERE A STAIRWAY OF 2 OR FEWER RISERS IS LOCATED ON THE EXTERIOR SIDE OF A DOOR, OTHER THAN THE REQUIRED EXIT DOOR, A LANDING IS NOT REQUIRED FOR THE EXTERIOR

A LANDING AT AN EXTERIOR DOOR SHALL NOT BE MORE THAN 7 3/4" BELOW THE TOP OF THE THRESHOLD. THE WIDTH OF EACH LANDING SHALL NOT BE LESS THAN THE DOOR SRVED. EVERY LANDING SHALL HAVE A MIN. DIMENSION OF 36" MEASURED IN THE DIRECTION OF TRAVEL.

NOTE:

BATHROOM EXHAUST FANS ARE
TO VENT DIRECTLY TO THE
OUTSIDE OF STRUCTURE

NOTE

FRAME GARAGE WALLS EXCEEDING 10'-0" IN HEIGHT WITH 2x6 STUDS.

<u>IOTE:</u>

ALL SMOKE DETECTORS / CARBON MONOXIDE ALRMARS SHALL BE INTERCONNECTED W/ BATTERY BACK-UP PER CODE.

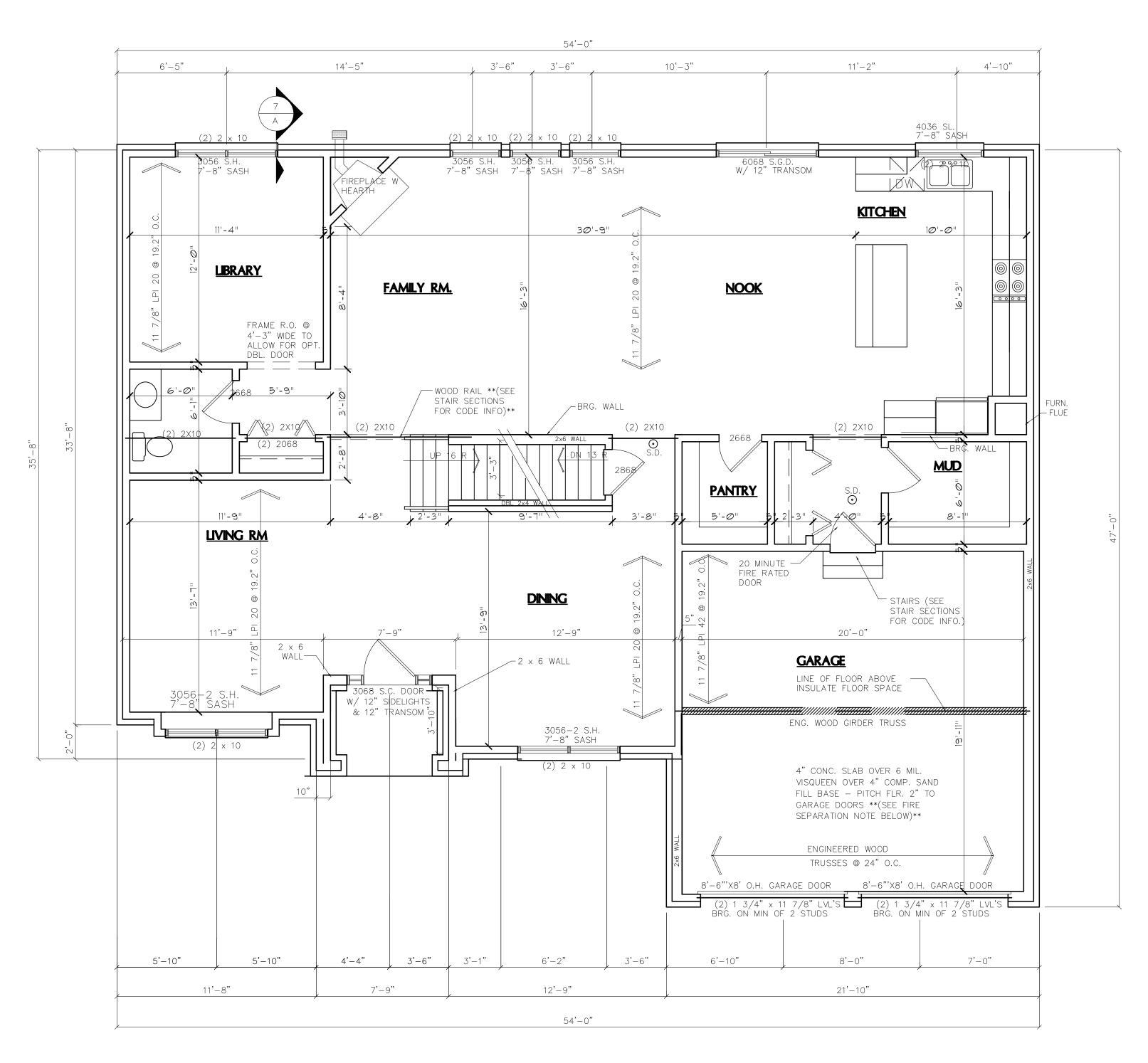
<u>NOTE</u>

SECTION R702.4.2 & R702.4.3:
WATER-RESISTANT GYPSUM BACKER BOARD
SHALL NOT BE USED OVER A VAPOR
RETARDER IN A SHOWER OR BATHTUB
COMPARTMENT, WHERE THERE WILL BE DIRECT
EXPOSURE TO WATER, OR IN AREAS SUBJECT
TO CONTINUOUS HIGH HUMIDITY

⊙SD/CM

 NO^{-1}

SECTION E3802.11:
ALL BRANCH CIRCUITS THAT SUPPLY 125-VOLT,
SINGLE-PHASE, 15- AND 20-AMPERE OUTLETS
INSTALLED IN DWELLING UNIT BEDROOMS SHALL
BE PROTECTED BY AN ARC-FAULT CIRCUIT
INTERRUPTER LISTED TO PROVIDE PROTECTION OF
THE ENTIRE BRANCH CIRCUIT.



FIRST FLOOR PLAN

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

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PROPOSED RESIDENCE XXXX AXEL ST. TROY, MI

FIRST FLOOR PLAN,

SIGN ASSOCIATES
COMMERCE TOWNSHIP, MI 48382
(248) 802-8409

ISSUED:
8FA
05-10-2022

DRAWN AK
CHECKED AK
APPROVED AK
BIDS

DO NOT SCALE
PRINTS - USE
FIGURED
DIMENSIONS ONLY

2021–34

3

STAIRWAY ILLUMINATION (R303.6) ALL INTERIOR AND EXTERIOR STAIRWAYS SHALL BE PROVIDED WITH A MEANS TO ILLUMINATE THE STAIRS, INCLUDING THE LANDINGS AND TREADS. INTERIOR STAIRWAYS SHALL BE PROVIDED WITH AN ARTIFICIAL LIGHT SOURCE LOCATED IN THE IMMEDIATE VICINITY OF EACH LANDING OF THE STAIRWAY. FOR INTERIOR STAIRS THE ARTIFICIAL LIGHT SOURCES SHALL BE CAPABLE OF ILLUMINATING TREADS AND LANDINGS TO LEVELS NOT LESS THAN 1 FOOT-CANDLES MEASURED AT THE CENTER OF TREADS AND LANDINGS. EXTERIOR STAIRWAYS SHALL BE PROVIDED WITH AN ARTIFICIAL LIGHT SOURCE LOCATED IN THE IMMEDIATE VICINITY OF THE TOP LANDING OF THE STAIRWAY. EXTERIOR STAIRWAYS PROVIDING ACCESS TO A BASEMENT FROM THE OUTSIDE GRADE LEVEL SHALL BE PROVIDED WITH AN ARTIFICIAL LIGHT SOURCE LOCATED IN THE IMMEDIATE VICINITY OF THE BOTTOM LANDING OF THE STAIRWAY. THE LIGHTING AND SWITCHING OF THE STAIRWELL WILL BE INSPECTED AN ELECTRICAL INSPECTOR.

FIRE SEPARATION NOTE

FOR LIVING SPACE ABOVE GARAGE

GARAGE SPACE BENEATH HABITABLE ROOMS SHALL BE SEPARATED FROM ALL HABITABLE ROOMS ABOVE BY NOT LESS THAN 5/8-INCH TYPE X GYPSUM BOARD OR EQUIVALENT. WHERE THE SEPARATION IS A FLOOR-CEILING ASSEMBLY, THE STRUCTURE SUPPORTING THE SEPARATION SHALL ALSO BE PROTECTED BY NOT LESS THAN 1/2-INCH GYPSUM BOARD OR EQUIVALENT. ALL OTHER GARAGE SPACE SHALL BE SEPARATED FROM THE RESIDENCE AND ITS ATTIC AREA BY NOT LESS THAN 1/2-INCH GYPSUM BOARD APPLIED TO THE GARAGE SIDE. DROP CLG. UNDER FLR. ABV. (ENCLOSE MECHANICAL AND STRUCTURAL ELEMENTS) VERIFY W/ BLDR.

LANDINGS AT DOORS (R311.4.3)
THERE SHALL BE A FLOOR OR LANDING ON
EACH SIDE OF EACH EXTERIOR DOOR . WHERE A STAIRWAY OF 2 OR FEWER RISERS IS LOCATED ON THE EXTERIOR SIDE OF A DOOR, OTHER THAN THE REQUIRED EXIT DOOR, A LANDING IS NOT REQUIRED FOR THE EXTERIOR

A LANDING AT AN EXTERIOR DOOR SHALL NOT BE MORE THAN 7 3/4" BELOW THE TOP OF THE THRESHOLD. THE WIDTH OF EACH LANDING SHALL NOT BE LESS THAN THE DOOR SRVED. EVERY LANDING SHALL HAVE A MIN. DIMENSION OF 36" MEASURED IN THE

NOTE:

DIRECTION OF TRAVEL.

BATHROOM EXHAUST FANS ARE TO VENT DIRECTLY TO THE OUTSIDE OF STRUCTURE

<u>NOTE:</u>

FRAME GARAGE WALLS EXCEEDING 10'-0" IN HEIGHT WITH 2x6 STUDS.

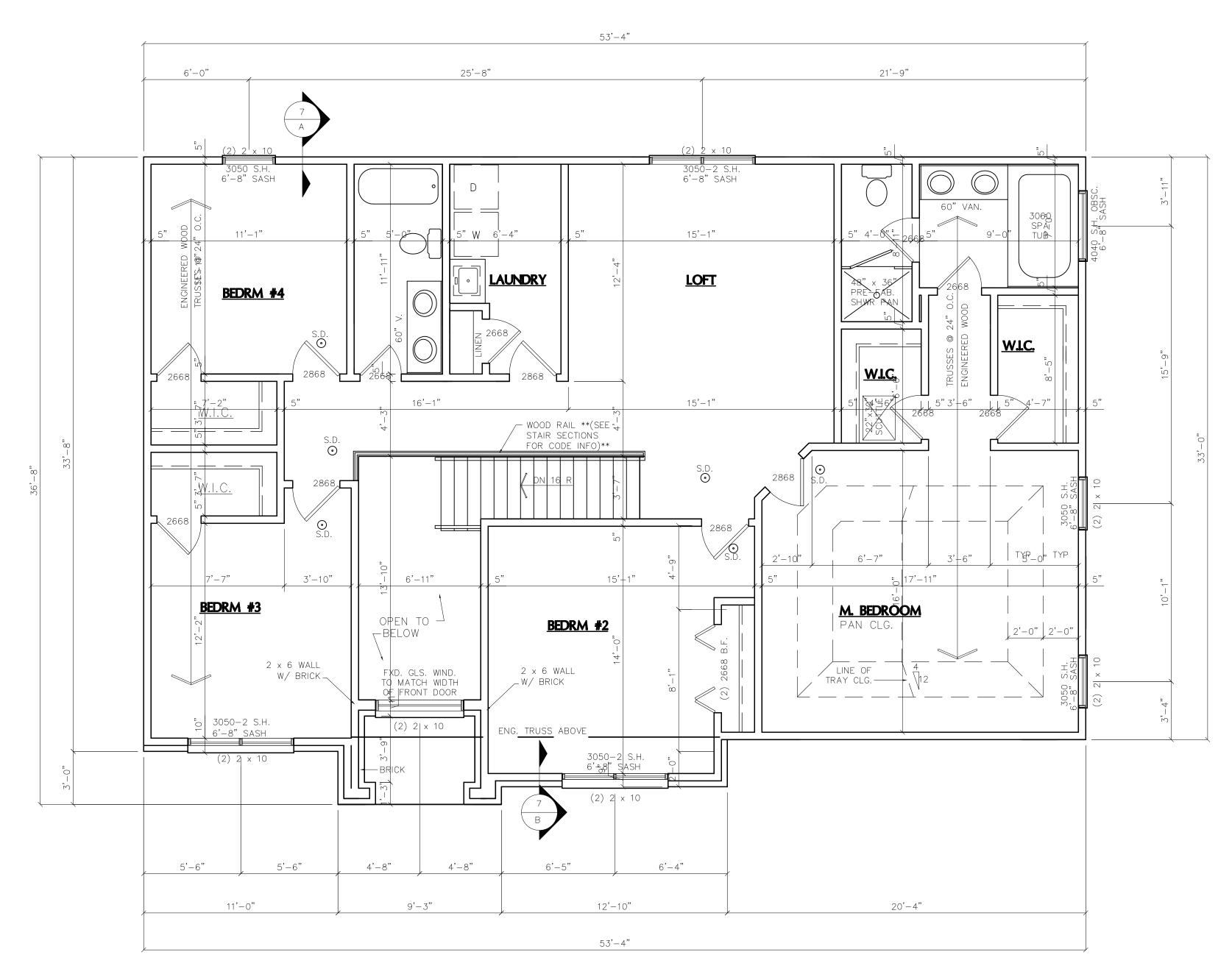
⊙SD/CM

ALL SMOKE DETECTORS / CARBON MONOXIDE ALRMARS SHALL BE INTERCONNECTED W/ BATTERY BACK-UP PER CODE.

<u>SECTION R702.4.2 & R702.4.3:</u> WATER-RESISTANT GYPSUM BACKER BOARD SHALL NOT BE USED OVER A VAPOR RETARDER IN A SHOWER OR BATHTUB COMPARTMENT, WHERE THERE WILL BE DIRECT EXPOSURE TO WATER, OR IN AREAS SUBJECT TO <u>CONTINUOUS</u> HIGH HUMIDITY

NOTE

SECTION E3802.11:
ALL BRANCH CIRCUITS THAT SUPPLY 125-VOLT,
SINGLE-PHASE, 15- AND 20-AMPERE OUTLETS
INSTALLED IN DWELLING UNIT BEDROOMS SHALL BE PROTECTED BY AN ARC-FAULT CIRCUIT INTERRUPTER LISTED TO PROVIDE PROTECTION OF THE ENTIRE BRANCH CIRCUIT.



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

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ASSOCIATOWNSHIP, MI 48382 ARKO DESIGN 2298 YASMIN DRIVE, COMMERCE T

ISSUED: SPA 05-10-2022

AK

DO NOT SCALE PRINTS - USE FIGURED DIMENSIONS ONLY



ASSOCIATES
TOWNSHIP, MI 48382 DESIGN
IN DRIVE, COMMERCE 7
PH. (248) 802-8 ARKO 2298 YASMIN

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THS DOCUMENT AND SUBJECT
MATTER CONTAINED THEREN IS
PROPRIETARY AND IS NOT TO BE
USED OR REPRODUCED WITHOUT
THE WRITTEN PERMISSION OF
ARKO DESIGN LLC

PROPOSED RESIDENCE XXXX AXEL ST. TROY, MI

EXTERIOR ELEVATIONS

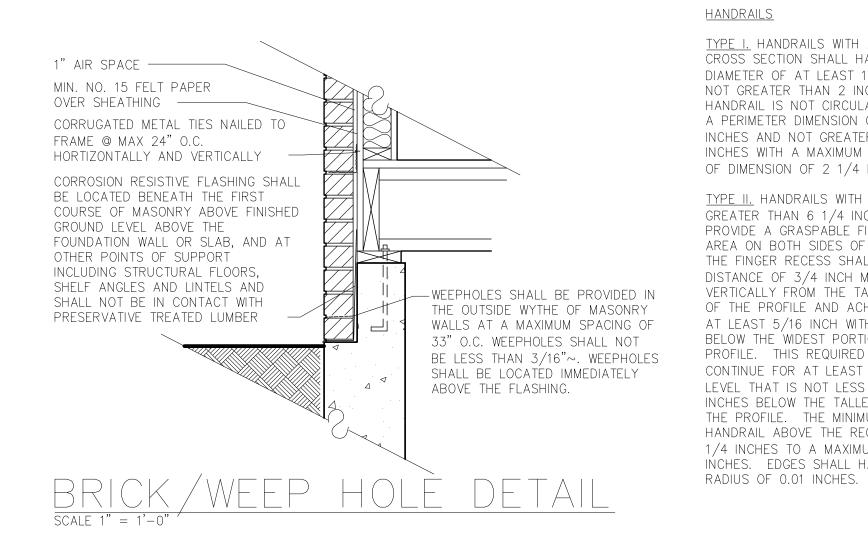
ARKO DESIGN ASSOCIATES
2298 YASMIN DRIVE, COMMERCE TOWNSHIP, MI 48382
PH. (248) 802-8409

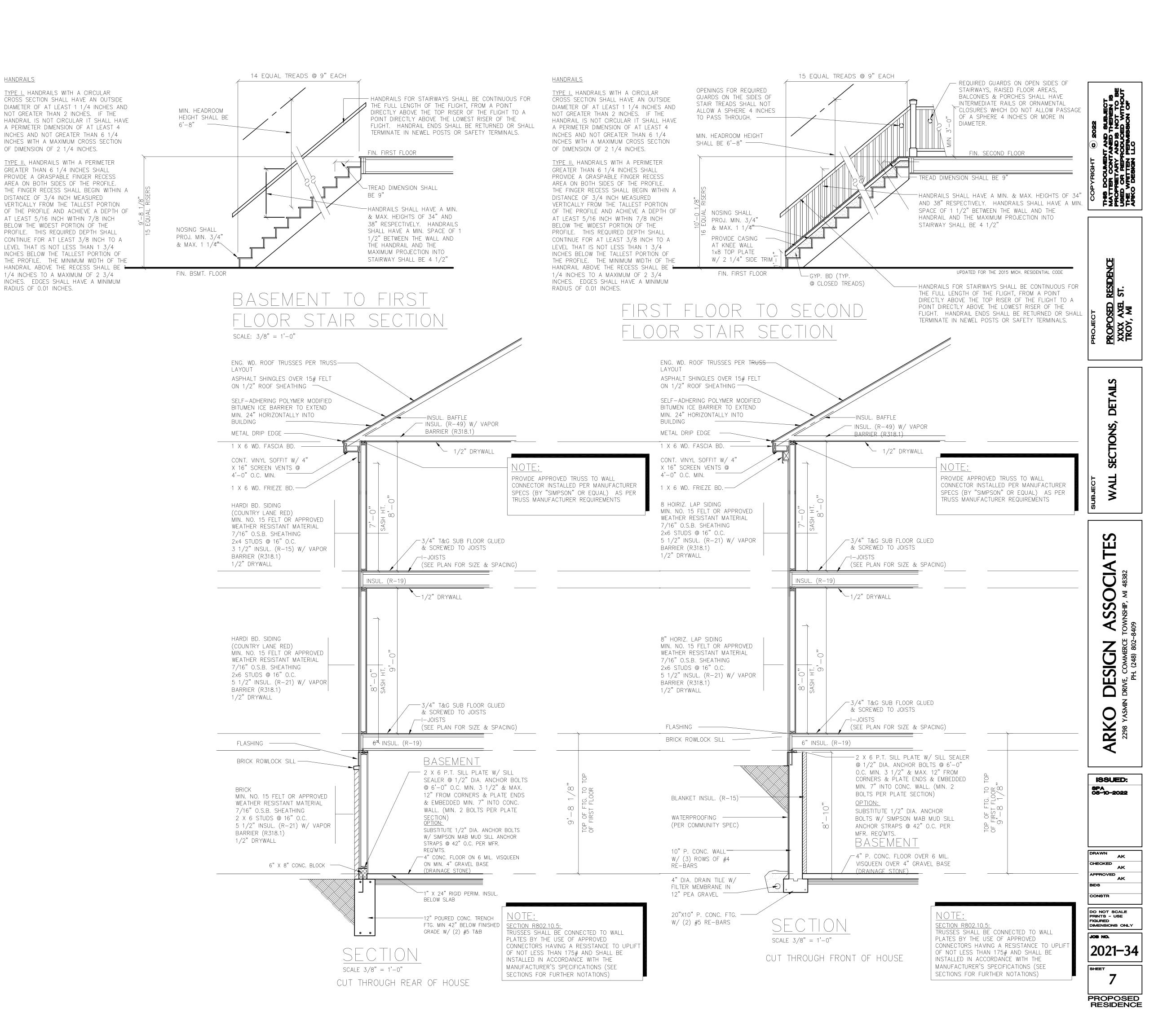
ISSUED: SPA 05-10-2022

DRAWN AK
CHECKED AK
APPROVED AK
BIDS

DO NOT SCALE PRINTS - USE FIGURED DIMENSIONS ONLY

2021–34







May 9, 2022

Mr. Artur Kokaj MGM Signature Homes 1232 Combermere Drive Troy, MI 48083

Mr. Kokaj:

At your request, I inspected a property at 571 and 589 E. Wattles Road in Troy, Michigan to determine if any regulated wetlands were present. Based on analyses of vegetation, soils, and hydrology I found wetland conditions on only very small areas in the interior of the property and along the east, west and north property edges. These small, poorly-drained spots covered only 0.14 acres in total and were dominated by buckthorn and other wetland facultative trees and shrubs.

Under Michigan Wetlands Protection rules, wetlands less than 5 acres in size are not regulated unless they are contiguous with a lake, pond, or stream. Since there are no water bodies within 500 feet of the subject property, I conclude that no wetlands potentially subject to state regulation exist on the property. Most of the site is regularly-mowed cultivated grass with typical lawn weeds such as dandelion. In my opinion, no further site analyses related to wetland issues are warranted.

Sincerely,

Patrick J. Rusz, Ph.D.

Chief Wetlands Ecologist

S & R Environmental Consulting

PO Box 157, St. Charles, MI 48655

"specialists in ecological analysis and resource management"