

3800 Laverne Avenue North Lake Elmo, MN 55042

(651) 747-3900 www.lakeelmo.org

NOTICE OF MEETING

The City of Lake Elmo
Planning Commission will conduct a meeting on
Monday August 26, 2019
at 7:00 p.m.

AGENDA

- 1. Pledge of Allegiance
- 2. Approve Agenda
- 3. Approve Minutes
 - a. August 12, 2019?
- 4. Public Hearings
 - a. Variance Requests 9447 Stillwater Blvd.
- 5. New Business
 - a. Review April 2019 Revisions to Engineering Design and Construction Standards Manual
- 6. Communications/Updates
 - a. City Council Update 8-20-2019 Meeting

Carmelites Chapel – Variance and CUP Four Corners Second Addition Final PUD and Final Plat

- b. Staff Updates
- c. Upcoming PC Meetings:
 - 1. September 9, 2019
 - 2. September 23, 20
- 7. Adjourn

^{***}Note: Every effort will be made to accommodate person or persons that need special considerations to attend this meeting due to a health condition or disability. Please contact the Lake Elmo City Clerk if you are in need of special accommodations.



City of Lake Elmo Planning Commission Meeting Minutes of August 12, 2019

Commissioner Weeks called to order the meeting of the Lake Elmo Planning Commission at 7:00 p.m.

COMMISSIONERS PRESENT: Cadenhead, Hartley, Holtz, Steil and Weeks

COMMISSIONERS ABSENT: Risner

STAFF PRESENT: Planning Director Roberts, Chief Malmquist

Approve Agenda:

M/S/P: Hartley/Holtz move to modify the agenda to allow Union Park to be reviewed before the Subdivision public hearing, **Vote: 5-0, motion carried unanimously.**

Approve Minutes:

M/S/P: Hartley/Steil, move to approve the July 22, 2019 minutes as presented, **Vote: 5-0, motion carried unanimously.**

Public Hearings

Carmelite Hermitage (8249 Demontreville Trail)

Roberts reported that Rev. John Burns of the Carmelite Hermitage has applied for a variance from the City Code requirement about direct access for a place of worship to add a chapel to the Carmelite's site located at 8249 Demontreville Trail.

An applicant must establish and demonstrate compliance with the variance criteria set forth in Lake Elmo City Code Section 154.109 before the City may grant an exception or modification to city code requirements.

Practical Difficulties. A variance to the provision of this chapter may be granted by the Board of Adjustment upon the application by the owner of the affected property where the strict enforcement of this chapter would cause practical difficulties because of circumstances unique to the individual property under consideration and then only when it is demonstrated that such actions will be in keeping with the spirit and intent of this chapter. Definition of practical difficulties - "Practical difficulties" as used in connection with the granting of a

variance, means that the property owner proposes to use the property in a reasonable manner not permitted by an official control.

FINDINGS: The addition of a chapel to Carmelites site has been planned since at least 1991 when the City first approved a Master Plan for their site. The Carmelites have been using the easement to Demontreville Trail for access to the site since that time. Adding another driveway or access to the Carmelites property would be a practical difficulty as the only public street their property has frontage on is Hidden Bay Trail to south. A new driveway would be about 1,500 feet in length, would require extensive tree removal and grading and would be an access onto a local street – not a collector or arterial street as the City Code requires for places of worship.

The use of the existing driveway for access to Demontreville Trail for the addition of a chapel to site is a reasonable use of the property and the existing access.

2) Unique Circumstances. The plight of the landowner is due to circumstances unique to the property not created by the landowner.

FINDINGS: According to the applicant, the existing lot layout with the access easement to Demontreville Trail has been in place since 1904. This is a unique situation with circumstances not created by the landowner or the current land users – the Carmelite Monks.

3) Character of Locality. The proposed variance will not alter the essential character of the locality in which the property in question is located.

FINDINGS: The proposed variance will allow the Carmelites to use the existing driveway (that currently provides access to their site) for access for the proposed chapel. By using the existing driveway that has been in place for many years, the Carmelites will not be altering the essential character of the locality (or area) in which their property is located.

Conversely, adding another driveway to their site that would have access onto a local, neighborhood street would change the character of that locality and area of the City.

4) Adjacent Properties and Traffic. The proposed variance will not impair an adequate supply of light and air to properties adjacent to the property in question or substantially increase the congestion of the public streets or substantially diminish or impair property values within the neighborhood.

FINDINGS. The proposed variance to allow the use of the existing driveway and easement for access for the proposed chapel will not impair an adequate supply of light and air to properties adjacent to the subject property, increase congestion of public streets or substantially diminish or impair property values within the neighborhood. Conversely, as I noted above, if the applicant added another driveway to access the streets to the south of their site that would increase the congestion on the local public streets near their property.

John Burns discussed a few of the issues that exist between the two properties that share the driveway access onto Demontreville Trail. He mentioned that they have the support of approximately 50 percent of the neighboring properties and feels they have a good history with the neighbors and with Lake Elmo. He reiterated there will not be the establishment of a Catholic Parrish on the site, nor will it be developed with residences and that the chapel is not being created to increase traffic.

Father Patrick McCorkle from the Jesuit Retreat stated that this is not merely a squabble between two property owners. He feels the increase traffic will ruin the atmosphere and purpose of the Retreat Hall as a quiet place away from the noise of everyday life. He also believes that the variance is at odds with the surrounding residential area.

Bryan Huntington attorney for the Jesuits stated that the applicant could not prove that the circumstances were not created by the land owner. He also disputed which easement agreement between the property owners was the most accurate and valid.

Garry VanCleavey attorney for Jesuit Retreat House stated that the Carmelite nuns fundraised for the chapel that will hold 44 people due to interest in having morning and evening mass services for the public. VanCleavey stated that multiple services in a day would be an expansion on the use of the property. He also stated that this is a use variance which is illegal in the State of Minnesota.

Eric Lipman, 8249 Deer Pond Ct N stated that the driveway easement existed prior to the Jesuit Retreat House being present and it does have direct access through that easement. He also stated that the Jesuits suggested that 50 people a week attend the Retreat House, which is a more intense use of the road than the Carmelite's are proposing.

Paul Gelbmann, 5034 Isle Avenue N asked if there is currently a mass that is open to the public at the convent, how often it meets, and how many people could the space hold? It was answered that there is a currently a daily mass open to the public that could hold up to 60 people in the space used.

Terry Quinn, 9220 Jane Rd N, stated that his family donated the gate system as you enter the site. He stated that he is disappointed in the squabble between the properties and is opposite to the spirit the donation was made. He said that he lives in the area, has been to the site, and believes that the variance should be granted.

Hartley said he was not convinced a variance is needed but understands that it is needed to provide clarity to allow the new chapel of the property. He also believes that the suggestion to move the driveway from the existing access point would be a less desirable outcome for everyone.

Weeks agreed with Hartley and added that the request from the Jesuits for silence is not currently met by any of the adjacent parcels nor is it feasible to ask. Weeks added that it appears this property meets the requirements of a variance and added that the Jesuits with their 3000 visitors annually have a significant impact on their neighboring properties.

Holtz said that the proposed chapel holding 44 people is more similar to a classroom than a church with a capacity of 900 people. He believes the need is not self-inflicted by the property owners; the access easement existed prior to the code changes. He explained how he believes the proposal meets the requirements.

M/S/P: Steil /Hartley, move to approve the request from Rev. John Burns of the Carmelite Hermitage for a variance from the City's requirement for direct access to a major collector or arterial street for a place of worship for the property located at 8249 Demontreville Trail, **Vote: 5-0, motion carried unanimously.**

M/S/P: Hartley /Cadenhead, move to approve the conditional use permit for the Carmelite Hermitage including the proposed chapel for the property located at 8249 Demontreville Road with recommended findings and conditions of approval as drafted by Staff. **Vote: 5-0, motion carried unanimously.**

Recess from 8:14 - 8:20 pm

Kwik Trip Fuel Station/Convenience Store (Inwood Avenue N. and 5th Street North)
Roberts explained that RPS Legacy Desoto is proposing a minor subdivision of Outlot O of the Inwood Addition into three separate parcels. The proposed minor subdivision would allow for Kwik Trip to purchase the 2.27 acre property and construct a new fuel station/convenience store on the southeast corner of Inwood Avenue North and 5th Street North. The applicant also is requesting that the City vacate the existing easements on and around Outlot O as part of this plat approval. City staff is recommending as a condition of approval that the plat or subdivision show a 10-footwide drainage and utility easement along the entire perimeter of the plat and property.

RPS Legacy Desoto Properties and Kwik Trip, Inc. are requesting a conditional use permit (CUP) for the construction of a Kwik Trip convenience store/fuel station with a car wash. The City Code requires approval of a Conditional Use Permit for this request in the Commercial zoning district.

Roberts mentioned that the applicant will need to pay the City a parkland dedication fee in the amount of \$10,215, the design of the western driveway access onto 5th Street must be revised to accommodate only right turns and the width of the eastern driveway may need to be modified to 40 feet in width to allow for one inbound lane and two outbound lanes.

The Planning Commission had discussion regarding traffic movement, easement, setbacks, lot lines, and driveways.

Dean George on behalf of Kwik Trip answered that the lot lines will be left to the developer.

Alan Stocker, 8680 Upper 7th St N, talked about the proposal for being open 24 hours, sound and light concerns, signage concerns, and a request for increased landscape buffering, such as evergreens. He mentioned the current traffic situation and concerns about additional vehicles.

Larry Boyle 8699 Lower 8th Pl N, reiterated the desire for an evergreen buffer and concerns about getting out on to 5th St.

Additional questions regarding traffic safety from the Planning Commission, including right turn lanes, traffic signals, Washington County's review, etc. Weeks mentioned that businesses pay higher taxes than residential properties and need to be seen to be able to thrive, so limiting signage and visibility can have negative effects.

M/S/P: Holtz/Hartley, move to approve the Minor Subdivision request to split Outlot O of Inwood Addition into three lots, subject to the conditions of approval as listed in the staff report. **Vote: 5-0, motion carried unanimously.**

M/S/P: Holtz/Hartley, move to approve the Conditional Use Permit for the proposed Kwik Trip fuel station/convenience store and car wash to be located on the southeast corner of Inwood Avenue and 5th Street North, subject to the conditions of approval as drafted by Staff and based on the findings of fact listed in the Staff Report. **Vote: 5-0, motion carried unanimously.**

New Business

Union Park First Addition Easement Vacations and Final Plat (5th Street N. and Julia Ave.) Pulte Homes of Minnesota is requesting approval of easement vacations and the Final Plat to create lots for 62 townhomes located on 7.92 acres. This proposed final plat is the first phase of a 240 townhouse residential development. Roberts reported that the project was previously called Bentley Village, it received prior approval in March for up to 240 townhomes on the site. They are now seeking Final Plat which is consistent with the approved preliminary plat. They were originally proposing a pool and now are proposing a dog park.

The proposed final plat shows the division of the property into separate lots, one that will be sold for the Spring apartment development, and the others will be used for

different phases of this development and a ponding area, it also includes the street right-of-way for 5th Street North and for future Julia Avenue.

The applicant is requesting the City vacate two existing drainage and utility easements that were placed on the property when Savona was developed. The developer cannot record a new final plat with the existing easements in place. These easements are both just south of 5th Street and will not be needed as the developer will be constructing new utilities and will be dedicating new easements with the final plat.

Savona Park is located just over 500 feet from the northern edge of the proposed development and meets the Neighborhood Park search area requirement. The developer is proposing and staff recommends that fees in lieu of land be paid in order to satisfy the park dedication requirements. The developer will be required to 10% of the purchase price of the land as park dedication.

Hartley asked about the dead end roads shown on the plan. Roberts explained that there will need to be temporary cul-de-sacs constructed.

Paul Hoyer, Pulte Homes, 7500 Flying Cloud, Suite 670 Eden Prairie, MN 55344. He explained there will be a pond included in this phase and one included in the next phase. He explained the plan is one phase per year for development. He also explained Pulte issues a property disclosure statement to homeowners that include things like the watering ban so that they are informed at the time of purchasing.

M/S/P: Hartley/Cadenhead, move to approve the vacation of the two drainage and utility easements on site of the Union Park final plat as shown on the drainage and utility easement vacation exhibits dated 1-03-2019 and 1-17-2019. **Vote: 5-0, motion carried unanimously.**

M/S/P: Cadenhead/Steil, move to approve the Union Park First Addition Final Plat with recommended findings and conditions of approval. **Vote: 5-0, motion carried unanimously.**

Public Hearing

Subdivision Ordinance Update

Roberts explained the changes to the ordinance language.

Hartley asked if the language should be changed about the Parks Commission reviewing the Final Plat. Discussion followed

M/S/P: Hartley/Steil, move to approve the Subdivision Ordinance with the changes discussed, **Vote: 5-0, motion carried unanimously.**

City Council Updates – July 16, 2019

Roberts reported that the Accessory Building size and Parking and Screening ordinances had been approved by City Council. The Council approved the size ordinance and removed the language requiring a durable surface for trailers.

Staff Updates

- 1. Upcoming Planning Commission Meetings
 - a. September 9, 2019 Another senior housing facility is being proposed in the Eagle Point Office Park. The applicant believes there is not a market for offices in the current market and that proximity to services is a good fit for the 100 unit development.
 - b. August 26, 2019 there are two potential variances.
 - c. Met Council is still missing one item for the Comprehensive Plan review that the City has submitted twice, then the application is complete and review will begin.

Meeting adjourned at 9:35 pm

Respectfully submitted,

Tanya Nuss Permit Technician



STAFF REPORT

Date: 8/26/19 **REGULAR**

ITEM#: 4 – PUBLIC HEARING

MOTION

TO: Planning Commission **FROM:** Ben Prchal, City Planner

AGENDA ITEM: Variance Requests - 9447 Stillwater Blvd.

REVIEWED BY: Ken Roberts, Planning Director

BACKGROUND:

The City has received variance requests from applicant Todd Alguire for the property located at 9447 Stillwater Blvd. The request of the applicant is for a variance from the City Code requirement of not allowing an accessory building closer to the front lot line than the principle building. Staff met with the resident and discussed with them the constraints of the site. The initially proposed location would have required two variances, one for the front lot line and the second for the setback to the OHWL of Freidrich pond. These conversations lead the applicant to shift the shed so that only a variance would be required from the front lot line. Beyond this the applicant is also seeking a variance for the height of the structure.

ISSUE BEFORE COMMISSION:

The Commission is being asked to hold a public hearing, review, and make a recommendation(s) on the requested variances.

REVIEW/ANALYSIS:

PID 15.029.21.34.0007

Existing Land Use/Zoning: Single-family zone as Rural Single Family.

Surrounding Land Use/

Zoning:

Single family homes zoned as Rural Single Family.

History: There are not substantial records for the property in the City Files.

Deadline for Action: Application Complete – 7/27/2019

60 Day Deadline – 9/25/2019 Extension Letter Mailed – N/A

120 Day Deadline – N/A

Applicable Regulations:

• Article V - Zoning Administration and Enforcement

• Article XVIII – Shoreland Management Overlay District

• Article XI – Rural Districts

PROPOSED VARIANCES

Variance Requests. The applicant is requesting to build an accessory building closer to the front lot line than the principle structure. The City Code addresses accessory building and currently proposed design would also exceed the maximum allowed height of 22 ft. Accessory structures are limited to 22 ft. or the principle structure, whichever is more restrictive. The needed variances are outlined in the tables and an in-depth explanation is provided below the tables.

Standard	Required	Proposed
Setback from the Front Property Line.	30 ft.	342.1 ft.
	Or	Closer to the Front lot
	The Principle Structure	line than the home.
Structure Height	22 ft.	25 ft.

Standards Met. The following table outlines the standards that are met on the property.

Standard	Required	Proposed
Allowed Structure Size (6.6 Acres)	2,000 sqft.	1,600 sqft.
	Or	
	Footprint of the Principle	
	Structure	
Structure setback from OHWL of Recreational	150 feet (66.5 average)	150.5 feet
Development (RD) Lake		
Drainfield setback from occupied structure	20 feet	25 feet
Side yard setback	10 feet	42 feet
Front yard setback	30 feet	342.1 feet
Rear Yard setback	40 feet	61 feet

Reason for Variance Requests

The applicant is requesting the variance for the structure to be located closer to the front lot line because of the geographic features of the lot and location of the home leaves very limited space behind the home. Furthermore, the applicant is also requesting a variance from the structure height requirement. The applicant would like to build a two story shed and has met the requirement that the structure cannot be taller than the principle structure but the code places a second limiting factor, stating that accessory buildings also cannot be taller than 22 ft. The applicable sections of code will be outlined below.

APPLICABLE CODE

154.40 Accessory Structures, Rural Districts:

When reviewing the criteria for an accessory structure Staff will go to a few different sections of the City Code. However, the applicant is only needing a variance for two items, both listed in 154.406.

Height:

The important point here is that the applicant has designed the shed so that it would not exceed the height of the principle structure. With the home being 29½ ft. in height the accessory structure was designed at 29 ft. in height. However, the code also reads that accessory buildings cannot exceed 22 ft. in height. The current design exceeds the maximum height allowance by 7 ft. Because of this, a variance is being sought for the proposed height of the accessory structure.

154.406 Accessory Structures, Rural Districts.) C.

Structure Height, Rural Districts. No accessory building shall exceed twenty-two (22) feet in height or the height of the principal structure, with the exception of agricultural buildings, as defined in §154.213. Building projections or features on accessory structures that are not agricultural buildings, as defined in §154.213, such as chimneys, cupolas, and similar decorations that do not exceed twenty-five (25) feet in height are permitted in rural districts.

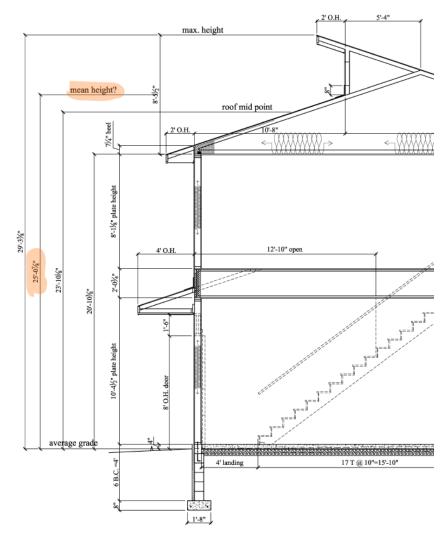
154.213 Accessory Buildings and Structures, Generally.) B. Definitions.

Agricultural Building. An accessory building means a structure that is on agricultural land as determined by the governing assessor of the City under section 273.13, subdivision 23 and meets all other requirements of State Statute 362B.103. A Minnesota Pollution Control Agency permit may be required.

BUILDING HEIGHT. The vertical distance from the average of the highest and lowest point of grade for that portion of the lot covered by building to the highest point of the roof for flat roofs; to the roof deck line of mansard roofs; and to the mean height between eaves and highest ridge for gable, hip, and gambrel roofs.

When reviewing accessory building requests Staff has uses the "Building Height" definition as the standard for determining the height of structures. The diagram to the right lists out the different measure points that are listed out in the definition. If the height variance is denied for the applicant, there would be the option to seek out Washington County and consult with them on having the property reclassified as outlined in section 154.213. If that were to happen Staff does not necessarily see why the applicant would be restricted to the 22 ft. height requirement.

At this point Staff does not believe the request to have a structure taller than what is allowed meets the criteria for variance approval. However, the last sentence in section 154.406 does allow structures to exceed the 22 ft. height requirement with specifically listed items. If the Commission believes that the upper roof/window qualifies as a decorative attachment this could put the applicant in a more favorable position. If this is determined to be



the case then the highest point would be measured at a lower position which would bring all the other measurements down. Then the projection would have to be reduced down to 25 ft. Staff does believe there would be grounds to make this determination as the applicant has added this window to match the design of the home, constituting a "similar decoration."

Setback:

As previously noted accessory buildings cannot be located closer to the front property line than the principle structure. Geographic constraints coupled with the location of the home would make construction in the side or rear yard difficult. There is also a shared driveway for the property addressed as 9495 Stillwater Blvd. This driveway is on the east side of the home, placing a structure on the east side of the lot would drastically impede the function of the driveway.

<u>154.406 Accessory Structures</u>, <u>Rural Districts</u>.) <u>D.Structure Location</u>, <u>Rural Districts</u>. No detached garages or other accessory buildings shall be located nearer the front lot line than the principal building on that lot.



AGENCY REVIEW

There have not been any comments submitted from other agencies or departments.

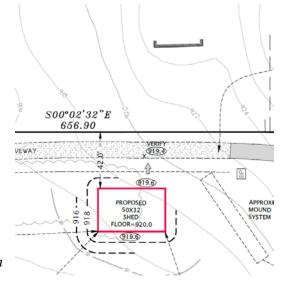
RECOMMENDED FINDINGS

An applicant must establish and demonstrate compliance with the variance criteria set forth in Lake Elmo City Code Section 154.017 before an exception or modification to city code requirements can be granted. These criteria are listed below, along with comments from Staff regarding applicability of these criteria to the applicant's request.

1) Practical Difficulties. A variance to the provision of this chapter may be granted by the Board of Adjustment upon the application by the owner of the affected property where the strict enforcement of this chapter would cause practical difficulties because of circumstances unique to the individual property under consideration and then only when it is demonstrated that such actions will be in keeping with the spirit and intent of this chapter. Definition of practical difficulties - "Practical difficulties" as used in connection with the granting of a variance, means that the property owner proposes to use the property in a reasonable manner not permitted by an official control.

FINDINGS:

- Variance for Height of Structure: The applicant has attempted to design the structure in a way that would mimic the design of the home. Although the building exceeds the 22 foot height requirement the structure was designed to be visually pleasing by matching the principle structure. Because the resemblance is similar to the principle building the request does appear to be reasonable.
- Variance for Accessory Building Setback: The request does appear to be reasonable because any other location meeting the code requirements would not be possible. The 150 setback requirement from the lake would make placement behind the home on the west side impossible and placing the structure on the east side of the home would interfere with the shared driveway to the home south of the property (9495 Stillwater Blvd.). The applicant



would be hard pressed to locate a building site that would not require a single variance. Because of this Staff believes this criteria is met.

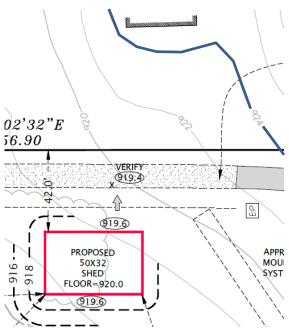
2) Unique Circumstances. The plight of the landowner is due to circumstances unique to the property not created by the landowner.

FINDINGS:

- Variance for Height of Structure: Staff has had difficulty determining the unique circumstance that would warrant approval of the structures height. The property is not currently used for agricultural purposes, beyond personal enjoyment. Geographically the build site is relatively flat so there is not a conflict when measuring the height of the building. Staff does not believe this criteria is met.
- Variance for Accessory Building Setback: The current structure was built prior to the current owner so there is no way the applicant would have been able to suggest a different building location for the principle structure to avoid the need for this variance. Beyond limited space in the rear of the home Friedrich Pond requires a 150 ft. buffer which is impossible to meet if the structure were to be placed in the rear yard. Furthermore, the structure would severely impede the function of the driveway if the shed were located on the east side of the home. Staff believes this criteria is met.
- 3) Character of Locality. The proposed variance will not alter the essential character of the locality in which the property in question is located.

FINDINGS:

- Variance for Height of Structure: Although the structure may be measurably taller than some of the neighboring homes, according to the survey the foundation would be about 4 feet lower than the neighboring homes foundation. Staff believes this criteria is met.
- Variance for Accessory Building Setback: Although the structure would be located in front of the home, the proposed building location would not change the character of the local area. Staff believes this criteria is met.



4) Adjacent Properties and Traffic. The proposed variance will not impair an adequate supply of light and air to properties adjacent to the property in question or substantially increase the congestion of the public streets or substantially diminish or impair property values within the neighborhood.

FINDINGS.

- Variance for Height of Structure: The structure would not be of such a height that it would begin to shade neighboring properties or structures, nor would it impair air flow. Furthermore, the height would not cause an increase of traffic or congestion of traffic.
- Variance for Accessory Building Setback: The location of the structure would not shade the neighboring properties or structures, nor would it impair air flow. Furthermore, the location would not cause an increase of traffic or congestion of traffic.

RECOMMENDED CONDITIONS

- 1. That the Applicant obtain all applicable permits including but not limited to a City building permit including a grading, erosion control, and storm water management plan approved by the City Engineer.
- 2. That the Applicant must reduce the height of the building to 22 ft. unless the property is reclassified to Agricultural. If reclassified, the applicant can increase the structures height to 25 ft.
- 3. If approved this variance approval is valid for 1 year and would expire on XXX. (date set after council approval)
- 4. One of the other smaller accessory buildings noted on the survey must be removed prior to the issuance of a building permit of the new accessory structure.

FISCAL IMPACT:

The proposed variance is not expected to have fiscal impact to the City.

OPTIONS:

The Commission may:

• Recommend approval of the proposed variances, subject to recommended findings and conditions of approval.

- Amend the recommended findings and conditions and recommend approval of the variances, subject to the newly outlined findings and conditions of approval.
- Move to recommend denial of all variances, citing findings for denial.

RECOMMENDATION:

Staff recommends that the Planning Commission recommend approval with the following motion:

"Move to recommend approval of the request from Todd Alguire for a variance from the following standards: structure setback from the front property line and the proposed location in front of the principle structure, subject to recommended conditions of approval."

ATTACHMENTS:

- 1) Narrative
- 2) Survey and Building Plans
- 3) Additional Pictures

ORDER OF BUSINESS:

-	Introduction	Planning Staff
-	Report by Staff	Planning Staff
-	Questions from the Commission	Chair & Commission Members
-	Open the Public Hearing	Chair
-	Close the Public Hearing	Chair
-	Discussion by the Commission	Chair & Commission Members
-	Action by the Commission	Chair & Commission Members

Dear City of Lake Elmo,

My name is Todd Alguire and I live at 9447 Stillwater Blvd N, I am applying for a permit to build a garage on my property.

I am submitting a copy of the site plan/new Survey to you and prints.

As you can see where my house is positioned on the 6.38 acres I have No room to build this garage behind my house, however I have plenty of land in the front towards the railroad tracks. Where I have it positioned on the lot it would be shielded by trees and wouldn't be Intrusive to any of the neighbors. I have provided a print of my Home and also the new Garage print. As you can see I designed it to look a lot like my home with the roof lines and style. The new garage roof will not exceed the Height of our home. Also it is down hill elevation of about 6ft and about 200ft from the house. The siding will match the homes LP 6" new siding and the windows will also match. Color match as well.

The only Variance am asking for,

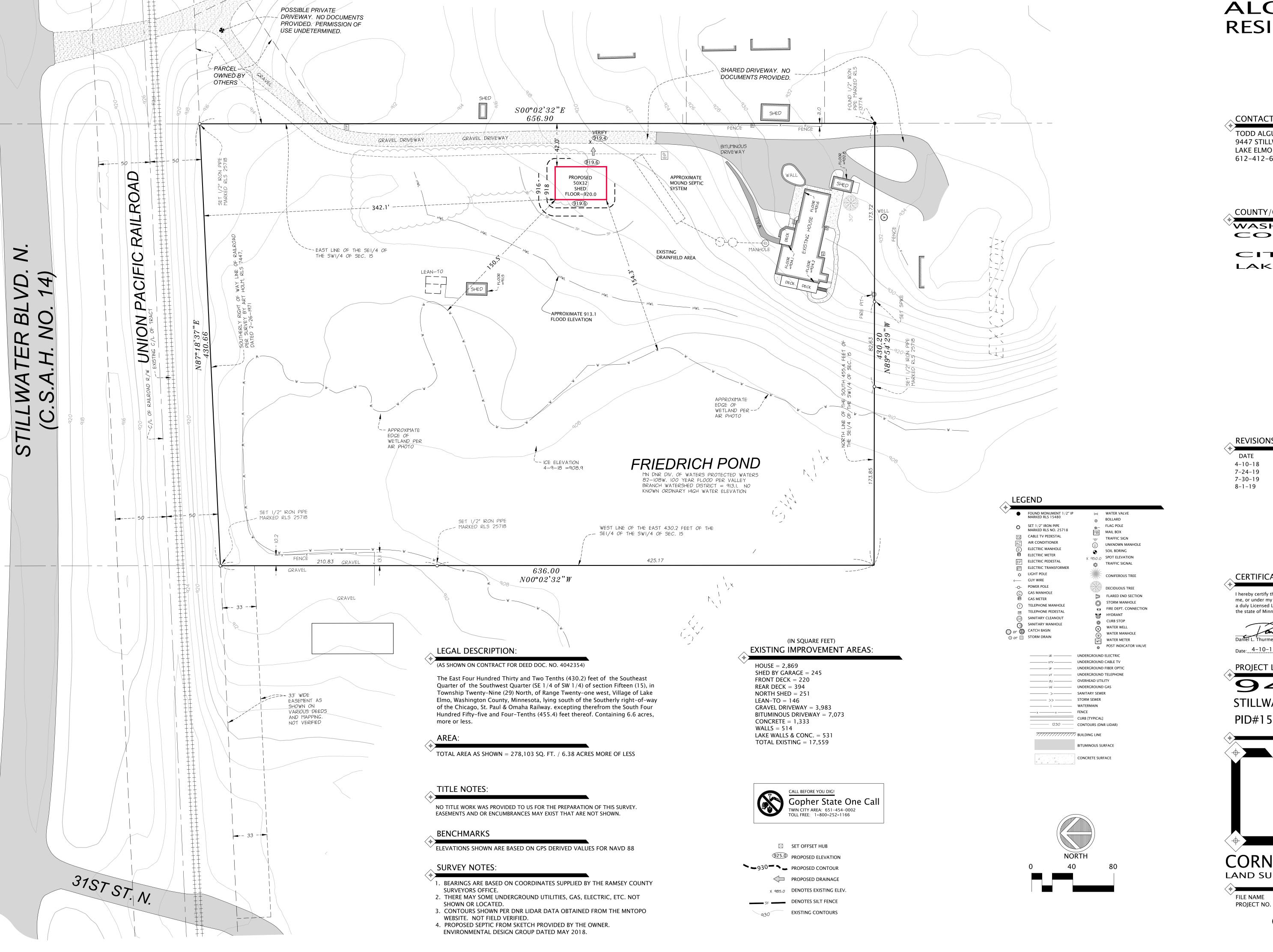
Is the location of the new building which I explained above with no space behind my home. The layout of this project will be Beautiful and fit the land perfectly, I am a very meticulous person and I have done many improvements to the land and house to make this fit and function very well on the lot.

If any other questions arise please call me prior to the Council meeting or I will be at the meeting and can be asked at that time. Im really looking forward to get going on this soon, I appreciate you're help on this for me and my family to enjoy this extra space.

Thank you,

Todd Alguire 612-412-6498

9447 Stillwater Blvd N. Lake Elmo, MN 55042



ALGUIRE RESIDENCE

CONTACT:

TODD ALGUIRE 9447 STILLWATER BLVD. N. LAKE ELMO, MN 55042110 612-412-6498

COUNTY/CITY:

WASHINGTON COUNTY

CITY OF LAKE ELMO

REVISIONS:

DATE **REVISION** 4-10-18 INITIAL ISSUE 7-24-19 PROPOSED SHED 7-30-19 REVISED

SEPTIC

CERTIFICATION: I hereby certify that this plan was prepared by me, or under my direct supervision, and that I am a duly Licensed Land Surveyor under the laws of

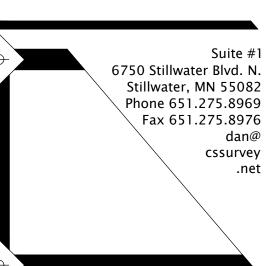
the state of Minnesota.

Date: 4-10-18

PROJECT LOCATION:

9447 STILLWATER BLVD. N.

PID#1502921340007



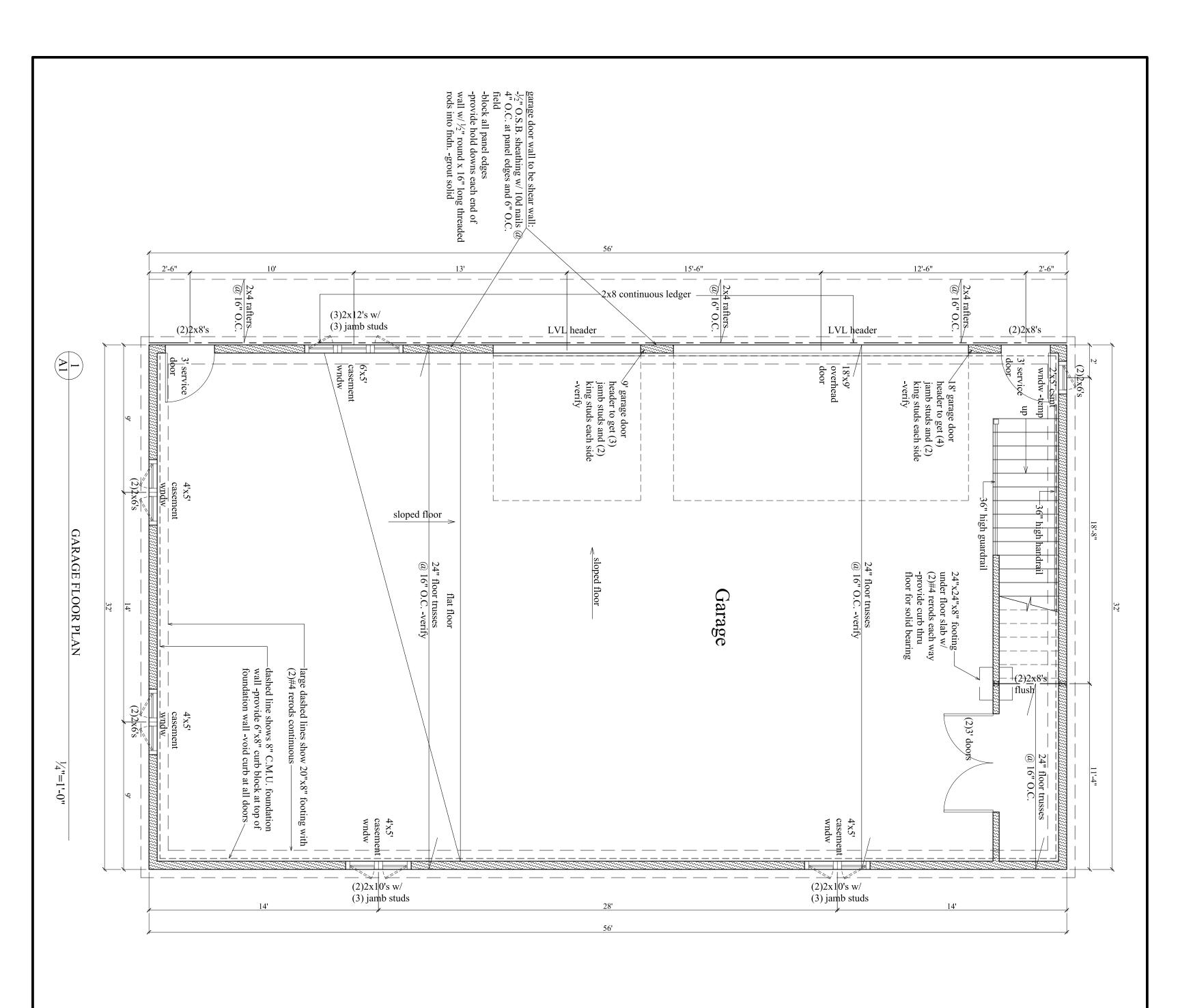
CORNERSTONE LAND SURVEYING, INC.

FILE NAME

ZZ18485

SURVZZ485

CERTIFICATE OF SURVEY



WALL TYPES:
Typical exterior wall construction:
-siding (match house)
-house wrap
-½" OSB sheathing
-2x6 studs @ 16" O.C.
-R-21 batt. insulation
-6 mil poly vapor barrier
-(1) layer ½" gyp. bd.

Typical exterior garage wall construction:
-siding (match house)
-house wrap
-½" OSB sheathing
-2x6 studs @ 16" O.C.
-R-21 batt. insulation
-6 mil poly vapor barrier
-(1) layer ½" gyp. bd.

Typical interior wall construction:
-(1) layer ½" gyp. bd.
-2x4 studs at 16" O.C. (non-bearing)
-(1) layer ½" gyp. bd.

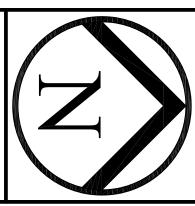
- Floor Plan General Notes:
 All interior and exterior finishes by owner.
 Verify all final window and door sizes and types with owner.
 All dimensions are from the face of foundation walls or exterior See wall types for new wall construction.
- See also building section for framing and other notes.

 Carry all jamb and post loads to footing with solid blocking
- All non bearing wall headers to get (1) jamb stud.
 All bearing wall headers and beams to get (2) jamb studs unless
- truss bracing by truss supplier.
 I headers/beams are dropped unless noted otherwise.
 I LVL beams/headers sized by other engineer.
 I structural lumber to be SPF #2 grade or better.

New Garage

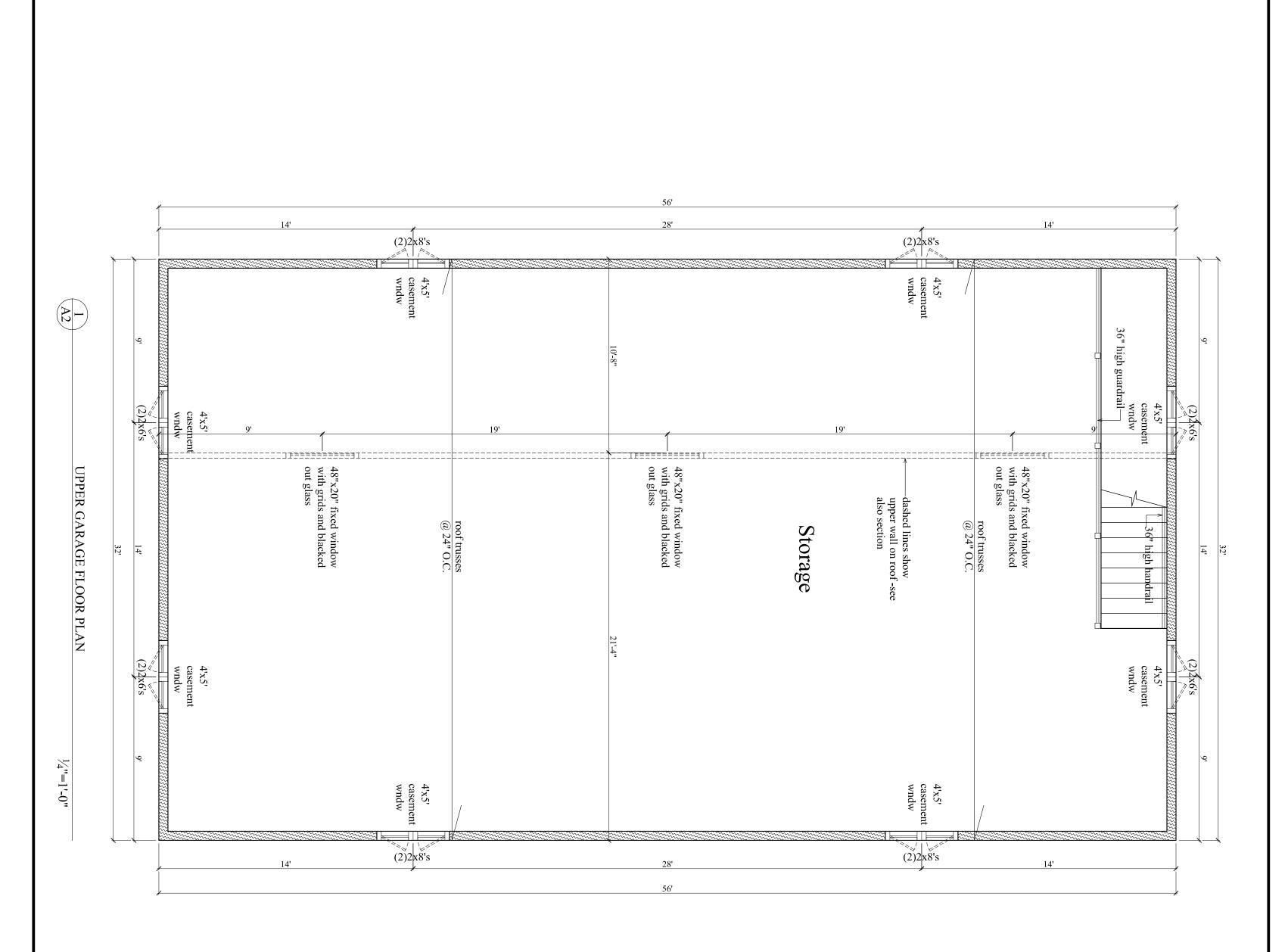
for Todd Alguire 9447 Stillwater Blvd. N Lake Elmo, Mn. 55042







Date: 7-27-19



through floors.

All non bearing wall headers to get (1) jamb stud.

All bearing wall headers and beams to get (2) jamb studs unless noted otherwise.

All truss bracing by truss supplier.

All headers/beams are dropped unless noted otherwise.

All LVL beams/headers sized by other engineer.

All structural lumber to be SPF #2 grade or better.

Floor Plan General Notes:
All interior and exterior finishes by owner.
Verify all final window and door sizes and types with owner.
All dimensions are from the face of foundation walls or exterior See wall types for new wall construction.
See also building section for framing and other notes.
Carry all jamb and post loads to footing with solid blocking

Typical interior wall construction:
-(1) layer ½" gyp. bd.
-2x4 studs at 16" O.C. (non-bearing)
-(1) layer ½" gyp. bd.

WALL TYPES:

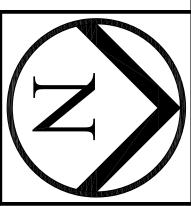
Typical exterior wall construction:
-siding (match house)
-house wrap
-½" OSB sheathing
-2x6 studs @ 16" O.C.
-R-21 batt. insulation
-6 mil poly vapor barrier
-(1) layer ½" gyp. bd.

Typical exterior garage wall construction:
-siding (match house)
-house wrap
-½" OSB sheathing
-2x6 studs @ 16" O.C.
-R-21 batt. insulation
-6 mil poly vapor barrier
-(1) layer ½" gyp. bd.

New Garage

for Todd Alguire 9447 Stillwater Blvd. N Lake Elmo, Mn. 55042





sheet

Date: 7-27-19



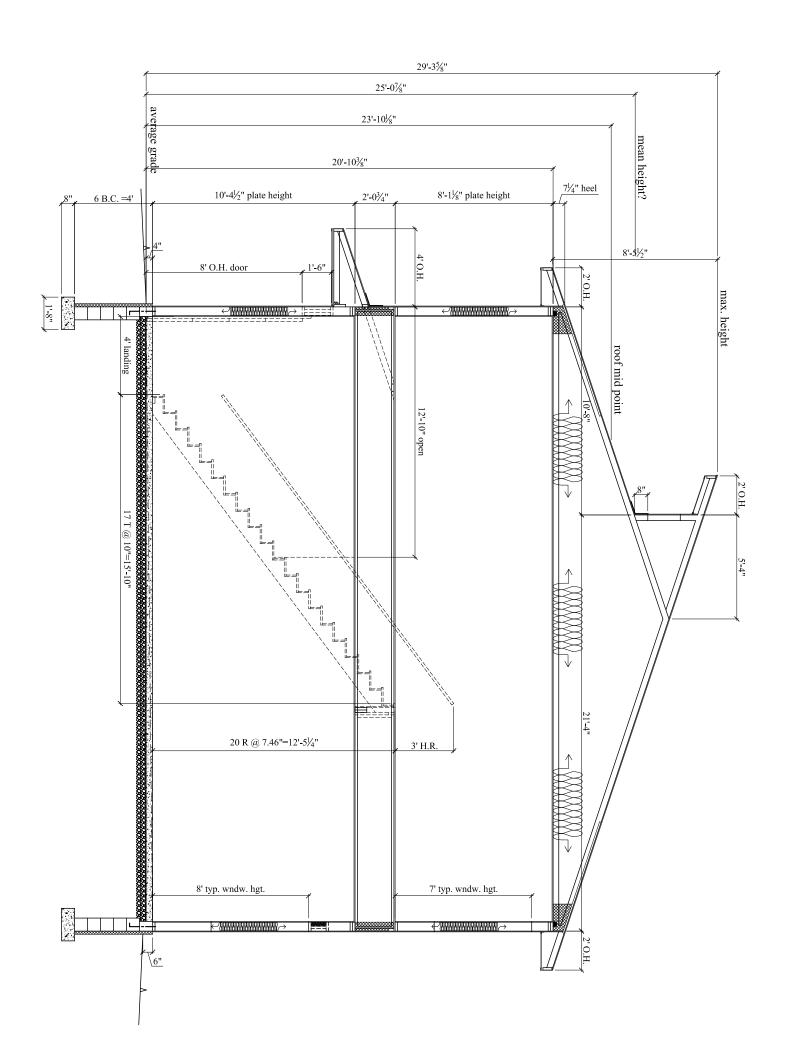
½"=1'-0"



Garage New

for Todd Alguire 9447 Stillwater Blvd. N Lake Elmo, Mn. 55042

sheet







Ben Prchal

From: WAYNE Goiffon <GOIFFONW@msn.com>

Sent: Monday, August 19, 2019 4:07 PM

To: Ben Prchal

Subject: Response to Ben Prchal

Caution: This email originated outside our organization; please use caution.

Hello Ben,

I received a notice of a public hearing for Monday, August 26, 2019 concerning a variance request on behalf of Todd Alguire at 9447 Stillwater Blvd. N. I will not be able to attend the public hearing but I want to let you know that I do not have issue with Todd's request.

Kind regards,

Wayne Goiffon 9495 Stillwater Blvd. N.



STAFF REPORT

PLANNING COMMISSION DATE: 08/26/2019

ITEM #:

AGENDA ITEM: Approve Engineering Design and Construction Standards Manual –

APRIL 2019 Revisions

SUBMITTED BY: Jack Griffin, City Engineer

REVIEWED BY: Kristina Handt, City Administrator

Ken Roberts, Planning Director

Marty Powers, Public Works Director Chad Isakson, Assistant City Engineer

ISSUE BEFORE THE COMMISSION: Staff respectfully requests that the Planning Commission review and recommend approval of the APRIL 2019 revisions to the Engineering Design and Construction Standards Manual.

BACKGROUND: The City maintains engineering design standards, standard specifications, and standard details for public infrastructure within the City, including streets, sanitary sewer, watermain, storm water facilities, right-of-way management and boulevard layout. This information is compiled into an Engineering Design and Construction Standards Manual for use by staff and the development community. The latest version of the Manual is dated March 2017.

The standards have been established to set minimum requirements to be met for all public infrastructure projects in the City with the intent of constructing consistent and compatible infrastructure systems throughout the community; to clearly communicate with the development community these minimum expectations and requirements; and to expedite plan design, preparation and City plan review and approvals. The engineering design standards and guidelines have been established to address the most common project elements and are to be used in conjunction with the requirements set forth by applicable codes, laws and ordinances, recognized industry standards, good engineering practice and specific project needs. Omission of reference in these standards and guidelines does not relieve responsibility for compliance with these requirements. In addition, the provisions of these standards and guidelines are not intended to prohibit the use of alternative systems, methods or components. Professional engineering judgement and ingenuity is encouraged to adapt to specific project needs. However, varying from the standards and guidelines will only be permitted with the approval of the City, after performing due diligence to ensure the design is equivalent or superior to the prescribed elements of the guideline.

PROPOSAL DETAILS/ANALYSIS: The Engineering Design and Construction Standards Manual is a living document that is reviewed and modified from time to time by City staff to adapt pro-actively to changing conditions so as to remain current, address best practices and extract additional economic value and performance as needed. Changes are often based on recommendations from Engineering, Planning, Public Works, the construction observation staff or other City staff, the development community, and other stakeholders. Changes made by the City Engineer over time are periodically brought forward as revisions to the Engineering Design and Construction Standards Manual to formalize the City's approval.

ENGINEERING DESIGN STANDARDS

for

CITY OF LAKE ELMO

STREET DESIGN AND GEOMETRICS

•	Minimum Street Widths, Measured from Face of Curb to Face of Curb (F-F)	
	-Standard Local Residential Street (with parking allowed on both sides)	32-feet F-F
	-Standard Local Residential Street, one-way lanes with center median	19-feet F-F
	-Standard High Density Local Residential Street (with parking allowed on both side	s)36-feet F-F
	-Collector and Neighborhood CollectorVaries as Street Dete	ermined by City
	-Local Residential Street with parking on one side (when allowed by City)	28-feet F-F
	-Local Residential Street with no parking on either side (when allowed by City)	22-feet F-F
•	Geometric Design, Local Residential Street	
	-Minimum Street Width (B-B), parking both sides	28 feet
	-Minimum Street Width (B-B), parking one side (when allowed by City)	
	-Minimum Street Width (B-B), no parking (when allowed by City)	22 feet
	-Minimum Street Width, one way lanes with center median	19 feet
	-Center Crown	2.5%
	-Minimum Longitudinal Grade	0.5%
	-Maximum Longitudinal Grade	8%
	-Maximum Intersection Approach Grade, First 50-feet from curb line	2.5%
	-Minimum Vertical Curve Length, Crest (including stop conditions)	K=19
	-Minimum Vertical Curve Length, Sag (including stop conditions)	K=37
	-Minimum Horizontal Curve Radius	90-feet
	-Intersection Angles	90 degrees
	-Tangent Length at Intersection from Curb Line, Local Streets	50 feet
	-Tangent Length at Intersection from Curb Line, Higher Class Streets	100 feet
	-Tangent Minimum between curves	50 feet
	-Minimum Intersecting Street Offset, from Centerlines	125 150 -feet
	-Curb Radius, Minimum Local to Local	20-feet
	-Curb Radius, Minimum Local to Collector	25-feet
	-Minimum Diameter of Cul-de-sac	90-feet
	-Minimum Grade around Cul-de-sac	1.0% 0.5%
	-Maximum Cul-de-sac Street Length (lots less than 2.5 acres)	600-feet
	-Maximum Cul-de-sac Street Length (lots equal or greater than 2.5 acres)	1,320-feet
	-Temporary Cul-de-sac at plat line	Required
•	Geometric Design, Collector Street	
	-Design StandardsMeeting State-Aid for minimum	
	-Minimum Street Width, back of curb to back of curbVaries (as dete	rmined by City)
	-Maximum Longitudinal Grade	6%
	-Intersection Angles	90 degrees
	-Tangent Length at Intersection from Curb Line	100 feet
	-Tangent Minimum between curves	50 feet

	-Minimum Vertical Curve Length, Sag and CrestState-Aid for minimum design speed -Minimum Horizontal Curve RadiusState-Aid for minimum design speed -Minimum Intersecting Street Offset, if allowed, from Centerlines250-feet -Street/Roadway AccessPer City Access Management Spacing Guidelines -Driveway Access, ResidentialProhibited -Driveway Access, CommercialPer City Access Management Spacing Guidelines -Curb Radius25-feet
•	Pavement Section Design (Pavement sections below are minimum allowed. Additional pavement section may be required based on Geotechnical Report of the subgrade soils).
	-Local Residential Street
	-Collector Street and Above
•	Draintile/Street Subsurface Drainage
	-TypeSch. 40 Rigid PVC Perforated -Size4-inch -SockMnDOT SPEC 3733
	-LocationAll Low Points in both directions; at 350 foot intervals, and Project Specific Design -LengthMinimum 100-foot runs; 100 feet in both directions from low points -Clean OutsEvery 150 feet and at all dead ends
•	Curb and Gutter
	-Material, All PurposesConcrete
	-Strength, Minimum Requirements4,500 3,900 PSI
	-Type: New Developments, Single Family ResidentialSurmountable -Type: Multifamily, Commercial, Collector Roads, Medians, ReconstructionB618
•	Utility Conduit
	-TypePVC Schedule 40 -Location/DepthPerpendicular to Street and minimum 1-foot below Street Subgrade
•	Entrances/Driveways
	-Maximum Driveway Width at Right-of-way

Signing -Design Standards......MMUTCD -Sheathing Type......Type IX Diamond Grade (DG3) -Sign Posts......Pre-punched 14 ga. Square Tube RIGHT-OF-WAY AND BOULEVARD LAYOUT Minimum Right-of-way Widths -Principal Arterial......150 feet to 300 feet -Commercial or Industrial Service Street.......80 feet -Standard High Density Local Residential Street (36-feet with parking on both sides)......70-feet -Standard Local Residential Street (32-feet with parking on both sides)......66-feet -Local Residential Street with parking on one side (when allowed by City)......60-feet -Local Residential Street with no parking on either side (when allowed by City)......60-feet -Marginal Access Street (with no trail or sidewalk)......50 feet Right of Way Widths • Boulevard, Local Residential Street -Topsoil Minimum......6-inch -Turf Treatment.....Lawn Sod -Tree Location without Sidewalk or Trail......8-feet back of curb -Tree Location with Sidewalk or Trail......5-feet back of curb -Street Light Location.....5-feet back of curb -Street Light Fixture......Traditional Colonial LED, Type B 4000 Lumens (Black) -Street Light Type/Pole......15 foot California Acorn w/Aluminum Pole (All Black) -Hydrant Location.....5-feet back of curb Sidewalks -Collector Street......Required on both sides -Local Residential Street......Required on one side -Cul-de-sac Street......Required for trail connection

• Trails

-Locations	Per City trail plan and as directed
-Width, Local Trail	8-feet
	2.25-inch Bituminous; 8-inch minimum Class 5
-Maximum Longitudinal Grade	8%
Berm Construction in Boulevard	
-Maximum Side Slope with Mainte	nance Requirements3:1
-Maximum Side Slope with Natural	Vegetation2:1

SANITARY SEWER

•	Force Main	
	-Material	PVC or HDPE
	-PVC, 2-inch–24-inch	
	-HDPE Class, 1-inch	SDR 9
	-HDPE Class, 2-inch-24-inch	SDR 11
	-Minimum Cover	7.5-Feet
	-Location of main in Street	
	-Tracer Wire	·
	-Air Relief Valve and Manhole Locations	· ·
	-Clean Outs	
	Cicuit Outs	
•	Gravity main	
	-Material	PVC
	-Minimum Diameter	8-inch
	-Class, up to 20-feet in depth	SDR 35
	-Class, 20-25 feet in depth	SDR 26
	-Class and Material, over 25 feet in depth	
	-Minimum cover over pipe	
	-Maximum depth of pipe	
	-Slope	
	-Tracer Wire	
	-Location of main in Street	
	Location of main in street	
•	Sanitary Sewer Manholes	
	-Type	Precast Concrete
	-Maximum inlet/outlet elevation difference	2-feet
	-Minimum depth of Manhole	6-feet
	-Type of Casting	R-1642-B
	-Joints and Assembly	Per City Details
	-Location	Street Centerline
	-Maximum Spacing	
	-Flow Line Match Required	
	-Drop Across All Manholes Required	
	-Connections to Existing Manholes	
	-Outside drop minimum	
	-Outside drop Material	
	Outside drop Waterial	
•	Service Pipe	
	-Material and Class	PVC SCHEDULE 40
	-Minimum Diameter	4-inch
	-Tracer Wire	
	-Drive-In Magnesium Grounding Anode Rod	
	-	
_	Easomonts	

Easements

-Sanitary sewer pipe and structures require minimum 30-foot easements centered over the pipe/structure if not located within the public right-of-way. Additional easement width may be required as determined by the City Engineer and Public Works Director. Easements must be dedicated to the City and be provided in the City's standard form of easement agreement.

WATERMAIN

Water Service Pressures -Individual Booster Pumps required	development specific
Main Pipe	
-Material	DIP
-Class	CL. 52
-Minimum Diameter – Mainline	8-inch
-Minimum Diameter – As allowed by City Engineer	6-inch
-Minimum Diameter – Hydrant Lead	6-inch
-Minimum Cover	7½-feet
-Maximum Length of Dead Ends	1,000-feet
-Air Release measures	MH, Hydrant
-Tracer Wire	12 AWG solid, PRO-TRACE HF-CCS PE45
-Location of main in Street	North or West
Hydrants	
-Type	Waterous Pacer WB-67
-Depth of Bury	8½-feet
-Maximum Coverage Radius, Residential	500-feet
-Maximum Coverage Radius, Commercial	
-Gate valve on Hydrant leads	Yes
-Hydrant Nozzle	· ·
-Temporary dead end lines	Hydrant required (no air bleed valves)
Valves	
-Resilient Seat Gate Valve, for 12-inch pipe & smalle	
-Butterfly Valve, for pipe over 12-inch	Mueller Lineseal III
-Valve Box	•
-Maximum area isolated by valving	
-Maximum distance between valves on Trunk Mains	s800-feet
Service Pipe	
-Service Material	Type "K" copper
-Corporation Stop	A.Y. McDonald 74701B
-Curb Stop	A.Y. McDonald 76104
-Curb Box	A.Y. McDonald 5614 w/rod & Mpls. top
Easements	
-Watermain lines and hydrants require minimum 3	0-foot easements centered over the pipe if
not located within the public right-of-way. Additional content of the public right-of-way.	onal easement width may be required as

-Watermain lines and hydrants require minimum 30-foot easements centered over the pipe if not located within the public right-of-way. Additional easement width may be required as determined by the City Engineer and Public Works Director. Easements must be dedicated to the City and be provided in the City's standard form of easement agreement.

STORM SEWER

•	Design	
	-Design Frequency for Storm Sewer	10-year
	-Minimum storm sewer design velocity	3-fps
	-Maximum storm sewer design velocity	15-fps
	-Maximum storm sewer outlet velocity	5-fps
	-Minimum Outfall Pipe SlopeVerify positive grade at comple	etion (no reverse grade)
•	Main Pipe	
	-Storm Sewer Pipe Material	
	-Minimum Cover Depth	
	-Minimum Pipe Diameter, Main	15-inch
	-Minimum Catch Basin Lead	
	-Location of main in Street	South or East
•	Culvert pipe	
	-Culvert Material, urban road or crossing public road	
	-Culvert Material, rural road private driveway	CMP
	-Minimum Culvert Size	15-inch
	-Apron and Trash Guard Required	Yes
•	Manholes	
	-Type	Precast Concrete
	-Sump Depth and Location4-feet, located at street	
	-Minimum Structure Depth	4-feet
	-Casting	
	-Minimum Adjustment Rings	2
	-Maximum Adjustment Rings	1-foot
•	Catch Basins	
	-Type	Precast Concrete
	-Minimum Structure Depth	4-feet
	-Maximum run to Catch Basin	350-feet
	-Casting, Curb & Gutter, B Style Curb	R-3067V
	-Casting, Area Drain	R-4342

Easements

-Storm sewer pipe, structures and flared end sections require minimum 30-foot easements centered over the pipe/structure if not located within the public right-of-way. Additional easement width may be required as determined by the City Engineer and Public Works Director. Easements must be dedicated to the City and be provided in the City's standard form of easement agreement.

STORMWATER MANAGEMENT AND STORMWATER BMPs

Note: Stormwater facilities shall be in accordance with the requirements listed herein; in accordance with the requirements of the applicable watershed district; and in accordance with the Minnesota Pollution Control Agency NPDES Construction Storm Water Permit. In addition, all "Recommended" and "Highly Recommended" provisions of the Minnesota Stormwater Manual should be considered requirements by the City of Lake Elmo unless specifically approved otherwise by the City Engineer.

•	Site Design
	-Facility locationsLocated in Outlots deeded to City
	-Location and Sizeabove 100-year HWL
	-Building Lowest Floor above 100-year HWL2-feet
	-Building Lowest Opening above EOF1-foot
	-Minimum access road width (located in Outlot)20-feet
	-Maximum grade for maintenance access roads10%
	-Setback from building foundations35-feet
	-Flood ProtectionOverland Emergency Overflows Required (No landlocked basins)
•	Stormwater Ponds (Detention Basins)
	-Design Frequency (DF), 2, 10, and 100-year, and 100-year 10-day snowmelt
	-Minimum Basin Depth to HWL3-feet
	-Maximum Pond Depth to HWL10-feet
	-Average Permanent Pool Depth4-feet to 6-feet
	-Permanent Pool Length-to-Width Ratio
	-Maintenance Bench Maximum side slope, first ten feet above Permanent Pool10:1
	-Aquatic Bench Maximum side slope, first ten feet into Permanent Pool10:1
	-Maximum side slope, beyond first ten feet
	-Pretreatment Sediment Forebay
	-Required freeboard
	-Pond Liner
	Total Effet which specifications
•	Drainage Swales
	-Maximum side slopes on Swales (maximum slopes allowed only when necessary)3:1
	-Maximum side slopes on Right-of-Way Swales4:1
	-Minimum longitudinal Swale grade
	-Minimum Swale depth within Right-of-Way18-inches
	-Minimum Bottom Width
	-Willimum Bottom Width4-Teet
•	
•	Infiltration Facilities (Bioretention Areas and Rain Gardens)
•	-Inlet control from StreetsUse Neenah R-3067-V casting on Catch Basin (no curb cuts)
•	-Inlet control from StreetsUse Neenah R-3067-V casting on Catch Basin (no curb cuts) -Maintenance Agreement for public right-of-wayRequired
•	-Inlet control from StreetsUse Neenah R-3067-V casting on Catch Basin (no curb cuts)
•	-Inlet control from StreetsUse Neenah R-3067-V casting on Catch Basin (no curb cuts) -Maintenance Agreement for public right-of-wayRequired
•	-Inlet control from StreetsUse Neenah R-3067-V casting on Catch Basin (no curb cuts) -Maintenance Agreement for public right-of-wayRequired -Maintenance Access EasementRequired
•	-Inlet control from StreetsUse Neenah R-3067-V casting on Catch Basin (no curb cuts) -Maintenance Agreement for public right-of-wayRequired -Maintenance Access EasementRequired -Minimum distance from septic system or drainfield35-feet
•	-Inlet control from StreetsUse Neenah R-3067-V casting on Catch Basin (no curb cuts) -Maintenance Agreement for public right-of-wayRequired -Maintenance Access EasementRequired -Minimum distance from septic system or drainfield35-feet -Minimum distance from public or private well50-feet
•	-Inlet control from StreetsUse Neenah R-3067-V casting on Catch Basin (no curb cuts) -Maintenance Agreement for public right-of-wayRequired -Maintenance Access EasementRequired -Minimum distance from septic system or drainfield35-feet -Minimum distance from public or private well
•	-Inlet control from StreetsUse Neenah R-3067-V casting on Catch Basin (no curb cuts) -Maintenance Agreement for public right-of-way
•	-Inlet control from StreetsUse Neenah R-3067-V casting on Catch Basin (no curb cuts) -Maintenance Agreement for public right-of-wayRequired -Maintenance Access EasementRequired -Minimum distance from septic system or drainfield35-feet -Minimum distance from public or private well50-feet -Maximum Site Slope
•	-Inlet control from StreetsUse Neenah R-3067-V casting on Catch Basin (no curb cuts) -Maintenance Agreement for public right-of-way

-Soil infiltration rates	*By Field Testing at Facility Location
-Maximum side slope	4:1
	48 hours
-Soil medium	MnDOT 3877 E Rooting Topsoil Borrow
-Seeding	MnDOT 3876 Specifications with Type 33-261
-Plantings	Planted in conformance with City approved landscape plan

^{*} Soil borings are required to verify infiltration rates. Borings must be taken to a depth of 5 feet below proposed infiltration basin elevation.

- Minimum 2 borings per facility up to 5,000 SF. of infiltration area.
- Minimum 3 borings per facility up to 10,000 SF. of infiltration area.
- Additional boring required for every additional 2,500 SF. of infiltration area.
- Other Stormwater BMPs: The City of Lake Elmo has adopted the following additional BMPs and Low Impact Development practices for the City and promotes their use in accordance with these Engineering Design Standards and the applicable City Code.
 - Open Space Developments in applicable Zoning Districts.
 - Narrow Streets through minimized street width standards.
 - Stormwater Reuse.
 - Infiltration/filtration Practices.
 - Vegetated Swales (Ribbon Curbs and Curbless Streets in applicable Zoning Districts).
 - Temporary Erosion and Sedimentation Control using Engineering Standards Manual.
 - Stormwater Site Design.
 - -Conservation of open spaces to protect a site's natural areas.
 - -Impervious lot coverage credits for Stormwater BMPs.
 - -Use of Pervious Pavements.
 - -Adoption of Minimal Impact Design Standards (MIDS) to mimic predevelopment hydrology.
 - -Incorporation of Landscaping and use of Native Vegetation.

DETAIL PLATE NUMBERS AND PLAN NOTES

•	Pipe Installation	101,103,105
•	Watermain	200A,201,203,204,206,207A,207B,208,210,211
•	Sanitary Sewer	300A,301,302,303,305,306,311,313,314,315
•	Storm Sewer	400A,402,404,405,406,407,408,409,410,411,
		412,416,417,419,420,421
•	Pavements, Curbs, Walks	500A,501,502,504,505,506, <mark>507A,507B,507C,</mark>
		507D,507E,507F,508,509,510,511,512,513, 514
•	Erosion Control	600A,600B,600C,600D,601,603,604,605,606
•	Typical Sections and Right-of-Way	801,804,805,806,807A,807B
•	Signing/Pavement Markings/Lighting	900A,901,902,903

NOTE: Minimum and maximum design parameters identify the end range of the acceptable design in the asbuilt condition and therefore must account for construction tolerances. Minimum and maximum design parameters are intended for use in the unique and extreme circumstance and therefore should have limited use in the base design.

The Engineering Design and Construction Standards Manual dated APRIL 2019 includes the following revisions and updates:

- 1. Revised minimum street widths as detailed in the attached Engineering Design Standard red lines. Street width revisions were made per Council direction following the June 11, 2019 workshop.
- 2. Reconciled minor street geometric parameters.
 - o Removed tangent requirement between curves along local streets.
 - o Reduced the minimum intersection offset distance from 150 feet to 125 feet.
 - o Increased the minimum gutter grade in cul-de-sacs from 0.5% to 1.0%.
- 3. Revised the bituminous wear course mix to require a higher-grade oil in the mix (Asphalt Grade C) and eliminated the practice of "saw and seal" on local streets.
- 4. Increased the minimum pavement section for collector streets to require 24-inches of select granular borrow.
- 5. Revised the concrete strength requirements from 3,900 PSI to 4,500 PSI, consistent with the new MnDOT and industry standards.
- 6. Revised the minimum right-of-way widths and minimum boulevards to be consistent with the approved 2040 Comprehensive Plan, Transportation Chapter and to accommodate the wider streets.
- 7. Revised the City standard street light fixture and pole to reflect the City's recent change to LED lighting.
- 8. Added minimum utility easement width requirements for watermain, sanitary sewer and storm sewer to be consistent with existing practices.
- 9. Removed the requirement to have storm water facility Outlots dedicated to City ownership. The new practice will be to require drainage and utility easements over the entire Outlot.
- 10. Revised the Standard Detail Plates for pedestrian ramps to be consistent with the new MnDOT and ADA standards.
- 11. Updated the Specifications and Details to reflect MnDOT 2018 Specification updates (updated from MnDOT 2014).
- 12. Updated the specifications to require storm sewer televising, similar to sanitary sewer televising.
- 13. Reviewed and red lined the City Subdivision Ordinance, Open Space Ordinance, and Stormwater Management Ordinance design standards to be consistent with the Engineering Design Standards Manual.

FISCAL IMPACT: No fiscal impact at this time. Should the City council adopt wider street widths, the future infrastructure street and storm water construction, reconstruction and ongoing maintenance costs will increase accordingly.

RECOMMENDATION: Staff is recommending that the Planning Commission recommend approval of the APRIL 2019 revisions to the Engineering Design and Construction Standards Manual. The recommended motion for the action is as follows:

"Move to recommend approval of the APRIL 2019 revisions to the Engineering Design and Construction Standards Manual."

ATTACHMENTS:

1. Engineering Design and Construction Standards Manual dated APRIL 2019.

*The full Engineering Design and Construction Standards Manual, dated APRIL 2019 is available for review at City Hall.

Sewered Development Development Status Sheet	Final Plat Appro DA Agreemen		Plat Recorded	Updated 8/19/19			T. 10 6	T	D 111	601		
Southern Developments	<u>Approved</u>	<u>Signed</u>		<u>Developer</u>	<u>Builder</u>	Total # Of Homes	Total # of SF Homes	Total # of Townhomes	Building Permits Issued	CO's <u>Issued</u>	Zoning	<u>Build-Out</u>
SAVONA - 310 Total Savona 1st Savona 2nd Savona 3rd Savona 4th	2/18/2014 5/20/201 9/16/2014 9/16/201 9/15/2015 9/15/201 3/15/2016 4/5/201	4 10/22/2014 6 9/16/2015	9/25/2014 4/14/2015 11/19/2015 7/27/2016	Lennar Lennar Lennar Lennar	Lennar Lennar Lennar Lennar	44 67 120 <u>78</u> 309	44 45 21 <u>78</u> 188	0 22 99 0 121	44 62 119 31 256	44 61 116 23 244	LDR LDR/MDR LDR/MDR LDR	100% 91% 97% 29% 79%
BOULDER PONDS - 162 Total Boulder Ponds 1st Boulder Ponds 2nd Boulder Ponds 3rd	4/21/2015 4/21/201 5/17/2016 5/17/201 6/19/2018 8/8/201	6 4/12/2017	6/5/2015 5/8/2017 10/18/2018	OP 4 Boulder Ponds OP 4 Boulder Ponds OP 4 Boulder Ponds	Creative Homes Creative Homes Creative Homes	47 18 33 98	47 18 33 98	0 0 0 0	43 17 12 72	39 15 2 56	PUD/LDR PUD/LDR	83% 83% 6% 57%
THE SPRINGS AT LAKE ELMO - 300 Tot The Spring at Lake Elmo	al					0	0	0	0	0		
UNION STATION - 240 Total Union Station 1st						0	0 0	0 0	0	0		
HUNTER'S CROSSING - 51 Total Hunter's Crossing 1st Hunter's Crossing 2nd	7/1/2014 10/7/201 5/5/2015 5/5/201		12/18/2014 8/4/2015	Ryland/Cal Atlantic Ryland/Cal Atlantic	Cal Atlantic Cal Atlantic	22 29 51	22 29 51	0 0 0	22 29 51	22 29 51	LDR LDR	100% 100% 100%
INWOOD - 537 Total Inwood 1st Inwood 2nd Inwood 3rd Inwood 4th Inwood 5th	5/19/2015 5/19/201 9/1/2015 N/A 4/19/2016 5/3/201 10/18/2016 2/7/201 4/4/2017 6/6/201	11/19/2015 .6 5/16/2016 .7 4/5/2017	8/3/2015 11/23/2015 5/23/2016 3/27/2017 6/19/2017	Hans Hagen/MI Homes Hans Hagen/MI Homes Hans Hagen/MI Homes Hans Hagen/MI Homes Hans Hagen/MI Homes	MI Homes MI Homes MI Homes MI Homes	40 21 68 38 101 268	40 21 68 38 101 268	0 0 0 0 0	39 21 68 30 78 236	39 21 68 26 73 227	PUD/LDR PUD/LDR PUD/LDR PUD/LDR PUD/LDR	98% 100% 100% 68% 72% 85%
HAMMES ESTATES (Lake Ridge Crossin Hammes Estates 1st Hammes Estates 2nd Hammes Estates 3rd	ng - 163 Total 10/7/2014 8/16/201 1/3/2017 2/7/201 2/20/2018 3/20/201	.7 6/9/2017	9/27/2016 6/30/2017 5/2/2018	Rachael Development Rachael Development Rachael Development	Multiple Multiple Multiple	57 37 69 163	57 37 69 163	0 0 0	43 13 1 57	39 11 0 50	LDR LDR LDR	68% 30% 0% 31%
ROYAL GOLF - 292 Total Royal Golf - 1st Royal Golf - 2nd Royal Golf - 3rd	9/5/2017 9/19/201 6/19/2018 6/19/201 12/4/2018 Extension grad	8 6/19/2018	9/29/2017 8/2/2018	HC Royal Golf HC Royal Golf HC Royal Golf	Multiple Multiple Multiple	73 64 67 204	73 64 67 204	0 0 0	51 7 0 58	48 1 0 49	GCC GCC	66% 2% 0% 24%
SOUTHWIND AT LAKE ELMO- 46 Total Southwind	7/5/2017 7/5/201	7 7/17/2017	8/21/2017	Southwind Builder	Southwind Builders	46 46	46 46	0	18 18	11 11	MDR	24% 24%
NORTHPORT - 104 Total Northport 1st Northport 2nd	9/5/2017 9/19/201 7/17/2018 7/17/201		11/15/2017 8/14/2018	Pulte Homes Pulte Homes	Pulte Homes Pulte Homes	36 29 65	36 29 65	0 0 0	20 3 23	16 0 16	LDR	44% 0% 25%
WYNDHAM VILLAGE - 10 Total	12/4/2018					10 10	10 10	0	0	0		0% 0%

Northern Developments

HIDDEN MEADOWS - 26 Total

Hidden Meadows

EASTON VILLAGE - 217 Total													
Easton Village 1st	3/3/2015	3/3/2015	7/23/2015	8/10/2015	Chase Development	Multiple	71	71	0	68	66	LDR	93%
Easton Village 2nd	5/2/2017	6/6/2017	6/6/2017	7/5/2017	Chase Development	Multiple	19	19	0	18	13	LDR	68%
Easton Village 3rd	7/18/2017	7/18/2017	7/6/2017	9/5/2017	Chase Development	Multiple	28	28	0	19	16	LDR	57%
Easton Village 4th	5/15/2018	5/15/2018	9/10/2017	9/19/2018	Chase Development	Multiple	25	25	0	11	0	LDR	0%
Laston vinage 4th	3/13/2018	3/13/2010	3/10/2010	3/13/2010	chase bevelopment	withpic	143	143	0	116	95	LDI	66%
								1.0		110			0070
LEGACY AT NORTH STAR - 266 Total													
Legacy at North Star 1st	8/21/2018	8/21/2018	9/14/2018	9/14/2018	Gonyea Homes	Multiple	59	59	0	27	7	VLDR	12%
Pool/Pool House					•	•							
							59	59	0	27	7		12%
													
VILLAGE PRESERVE - 91 Total													
Village Preserve 1st	5/5/2015	6/2/2015	8/3/2015	8/25/2015	Gonyea Homes	Multiple	46	46	0	44	44	LDR	96%
Village Preserve 2nd	4/19/2016	8/16/2016	8/19/2016	9/9/2016	Gonyea Homes	Multiple	45	45	0	43	38	LDR	84%
							91	91	0	87	82		90%
WILDFLOWER - 145 Total													
Wildflower @ Lake Elmo 1st	7/21/2015	8/4/2015	8/27/2015	10/6/2015	Engstrom Companies	Multiple	60	60	0	42	38	PUD/MDR	63%
Wildflower @ Lake Elmo 2nd	12/6/2016	3/21/2017	6/20/2017	6/20/2017	Engstrom Companies	Multiple	20	20	0	8	6	PUD/MDR	30%
Wildflower @ Lake Elmo 3rd	3/20/2018	4/17/2018	7/26/2018	8/7/2018	Engstrom Companies	Multiple	25	25	0	1	0	PUD/MDR	0%
							105	105	0	51	44		42%
					Cummulative Totals		1612	1491	121	1052	932		58%
Non-Sewered Development													
Development Status Sheet													
LEGENDS - 40 Total													
Legends									0				
								0	0	0	0		

Creative Homes

Note: Building Permits are updated at the end of each month. CO's are updated as issued. Items in red are waiting on information from Planning