PUBLIC SPEAKING INSTRUCTIONS

Due to the COVID-19 pandemic, the Verona Town Board will hold its regular town board meeting as an inperson/hybrid meeting. The Town Board will meet at Town Hall, 7669 County Highway PD. Members of the Town Board and Staff may either join the meeting in person or by using Zoom Webinar, as described immediately below.

Members of the public can join the meeting in person or by using Zoom Webinar via a computer, tablet, or smartphone, or by calling into the meeting.

Join the meeting via computer, tablet, or smart phone:
https://us06web.zoom.us/j/81043151635?pwd=ZE5ZUTBLR3JPMmQxTHZybjRncHFmZz09
Meeting ID: 81043151635
Passcode: 521212
Join the meeting via phone by dialing the number below and use the same meeting ID and password information
(312) 626-6799

Anyone with questions prior to the meeting may contact the Town at (608) 845-7187 or email Teresa Withee at twithee@town.verona.wi.us

WRITTEN COMMENTS: You can send comments to the Town Board on any matter, either on or not on the agenda, by emailing mgeller@town.verona.wi.us or twithee@town.verona.wi.us or in writing to Town Board Chair, 7669 County Highway PD, Verona, WI, 53593.

1) Call to Order/Approval of the agenda
2) Pledge of Allegiance
3) Public Comment - Comments on matters not listed on this agenda could be placed on a future meeting agenda. If the Chair or staff has received written comments for items not on the agenda, these will be read.
4) Approval of minutes from July $5^{\text {th }}, 2021$
5) Staff Reports
A. Administrator/Planner Report
B. Public Works Project Manager Report
C. Clerk/Treasurer Report
6) Committee Reports
a) Plan Commission
i) Discussion and Possible Action: Site Plan Approval for Final Phase of Construction for the Madison-Verona Self Storage facility located at 4201 Maple Grove Road, submitted by Jamie and Cameron Lindau
ii) Discussion and Possible Action: Land Use Application 2021-11 submitted by Sugar River Investors, LLC for a rezone from AT-35 to RM-16 for 38.4-acre parcel 062/0608-301-8001-1 located at 2325 Sugar River Road, Verona WI
iii) Discussion and Possible Action: Land Use Application 2021-06 submitted by Noa Prieve on behalf of Stilwell Trust, 6411 Sunset Drive, for a 4-unit Condo Plat Concept Approval and Rezone (parcel number 062/060-364-8990-2 (20.3-acres)).
iv) Discussion and Possible Action: Land Use Application 2021-12 submitted by D'Onofrio Kottke on behalf of Mishpacha LLC (Harvey Temkin) 2313 Sugar River Road for a CSM and Rezone
v) Discussion and Possible Action: Land Use Application 2021-06 submitted by Twin Rock LLC for Preliminary Plat and Neighborhood Association Declaration Approval for property near 2528 Spring Rose Road (062/0608-183-8681-0 and 0-608-183-31809)
b) Public Works
i) Discussion and Possible Action: Town Road Speed Limit Recommendation for Paulson Road and Woods Road to be changed from 55 miles per hour to 45 mile per hour
ii) Discussion and Possible Action: Resolution 2021-07 to Rename a Portion of Stony Ridge Circle and Name a New Roadway Constructed as a Result of the County Trunk Highway M Project
c) Ordinance Committee
d) Financial Sustainability Committee
e) Natural and Recreational Areas Committee
i) Discussion and Possible Action: Finalization of Committee Goals
f) EMS Commission
g) Senior Services Committee
h) Town Chair's Business
i) Supervisor Announcements
7) Old Business
8) New Business
A. Discussion and Possible Action: Town of Verona Financial Support Contribution to the 2022 MPO Budget
B. Discussion and Possible Action: Dane County Ordinance Amendment 2021-OA-002 to revise the text of various sign regulation provisions in Chapter 10 of the Dane County Code of Ordinances
C. Discussion and Possible Action: Payment of the Bills
9) Adjournment

Regular board agendas are published in the Town's official newspaper, The Verona Press. Per Resolution 2016-2 agendas are posted at the Town Hall and online at www.town.verona.wi.us. Use the 'subscribe' feature on the Town's website to receive agendas and other announcements via email. Notice is also given that a possible quorum of the Plan Commission and/or Public Works, Ordinance, Natural and Recreational Areas, and Financial Sustainability Committees and could occur at this meeting for the purposes of information gathering only.

If anyone having a qualifying disability as defined by the American with Disabilities Act needs an interpreter, materials in alternate formats, or other accommodations to access these meetings, please contact the Town of Verona @ 608-845-7187 or twithee@town.verona.wi.us. Please do so at least 48 hours prior to the meeting so that proper arrangements can be made.

Mark Geller, Town Chair, Town of Verona
Sent to VP: 8/30/2021
Posted: 8/30/2021

## Town of Verona

Town Board Meeting
Tuesday, July 6, 2021 6:30 p.m.

Town Board Members Present: Geller, Mathies, Lonsdorf, Wiederhoeft and Maxwell
Staff Present: Administrator/Planner Gaskell, Public Works Director Barnes and Clerk/Treasurer Withee Others Present: Rosemary Bodolay, Susan Pigorsch, Kirk Feller, Mike Duerst, John Sensemann

1) Call to Order/Approval of the Agenda - Chair Geller called the meeting to order at $6: 30 \mathrm{pm}$. Motion by Wiederhoeft to approve the agenda, second by Lonsdorf. Motion carried by voice vote.
2) Pledge of Allegiance
3) Public Comment - Kirk Feller asked about the ad hoc committee report. Geller stated that the agenda item will be regarding only the next steps in the review process.
4) Approval of minutes from June 1, 2021 Town Board Meeting; Geller stated that Jo Tucker's comments will be included. Mathies noted under pg 3 new business, alcohol renewal of license that the 15 day public comment was not discussed during the motions - strike wording regarding the 15 days for public comment. Motion by Mathies to approve minutes from June 1, 2021, second by Lonsdorf. Discussion by board. Motion carried by voice vote.
5) Staff Reports
a. Administrator/Planner Report - Gaskell report was included in packet.
b. Public Works Director Report - Barnes report was included in packet.
c. Clerk/Treasurer Report - Withee report was included in packet.
6) Committee Reports
A. Plan Commission:
a. Discussion: Procedure for Amendment of the Comprehensive Plan. Gaskell reviewed information regarding draft procedure. Lonsdorf asked if this is regarding only changing the land use sections. Gaskell stated this would be for landowners to request a change and the deadline will be September $30^{\text {th }}$ every two years. Mathies stated that board supervisors can request changes to the comprehensive plan. Wiederhoeft asked if this is a new procedure. Gaskell stated that this is a new procedure. Geller stated that the previous comp plan was adopted in 2019 and is reviewed every two years.
b. Discussion: Procedure for Approval of Conditional Use Permit. Gaskell reviewed CUP procedure and application process. Wiederhoeft asked about the provision to notify residents within 500 feet. This is listed on page 3 under notifications.
c. Discussion and Possible Action: Fee for a Comprehensive Plan Amendment Application. Gaskell reviewed current process and fees. Mathies asked if there is an estimate on staff time required. Gaskell reviewed what is required for staff time. Motion by Geller to change fee to $\$ 1,000$ for a Comprehensive Plan Amendment

Application, second by Wiederhoeft. Lonsdorf amends motion to $\$ 750$, second by Maxwell. Motion carried by voice vote.
B. Public Works: Wiederhoeft stated that time was spent on speed limit inventory and there will be changes. Traffic study of Fitchrona Road and will present everything at once. PW Committee will generate a list of Marty Farm Proposal concerns for Geller. Brush and yard waste disposal was also discussed.
C. Ordinance Committee: no meeting.
D. Financial Sustainability Committee: Mathies stated they worked on refining budget categories and splitting them out to be more descriptive. Geller stated that he would like to see committee work on ARPA guidance.
E. Natural and Recreational Areas Committee: Lonsdorf reported discussion on solar panels, finding new members and setting priorities. Duane Hoffman resigned, and he would like to see at least 5 members and they will be recruiting for new members. There is an application for new members.
F. EMS Commission: Lonsdorf stated Town of Verona assessment will go up by $18.55 \%-\mathrm{a}$ $\$ 14,000$ increase. Reserve fund for EMS has declined below acceptable level due to three negative budget years in a row. EMS underestimated no transport runs by $10 \%$ so they will increase the budgets for the next 3 years to compensate for this error. Maxwell asked if the reserve was discussed. Lonsdorf stated town pays $5 \%$ of total EMS budget.
G. Senior Services Committee: Geller and Wiederhoeft serve on the Board. The board of directors voted to terminate Amanda Mead as director and effective July $2^{\text {nd }}, 2021$. The board will be working on hiring a nutrition manager and revising job description for executive director.
H. Town Chair's Business: Geller stated he met with Fitchburg mayor. They will begin to meet quarterly. Has met with several town residents regarding concerns. Working on response to Marty farm proposal. Geller stated for the minutes he would like to thank the people responsible for the pollinator garden, Sherry Combs and would like to publicly thank Supervisor Lonsdorf for his Ice Age Trail reward. The town has received the new plow truck and supports having an open house.
I. Supervisor Announcements: Lonsdorf stated he would like to go on record he is not in favor of the Marty Farm proposal. Mathies stated Dane County Towns Association Board met, discussed yard waste, and influence on Dane county budget. Concerns regarding watershed areas and asking DC treasurer to reduce number of abandoned parcels.
7) Old Business
A. Discussion and Possible Action: Ordinance 2021-05 Alternative Claims Procedure. Mathies reviewed the ordinance. Motion by Mathies to adopt Ordinance 2021-05 Alternative Claims Procedure, second by Maxwell. Motion approved by voice vote.
B. Discussion: Increased Citizen Participation Goal. Wiederhoeft presented proposal and expects that this will be reviewed until process is decided. Would like the board to review her proposal and make suggestions. Geller recommends emailing Gaskell comments for revisions / suggestion. Mathies stated that goal was citizen input not participation. Suggestions include more listening sessions and a newsletter. Reforming committee system was not one of the goals he would like to stay with the goals. Wiederhoeft stated that she suggested that goal and did state participation was part of her suggestion.
8) New Business
A. Discussion and Possible Action: Intergovernmental Agreement between the Town of Verona, the City of Verona and the City of Fitchburg for Fitch-Rona EMS. Gaskell reviewed agreement. Motion by Geller to approve Intergovernmental Agreement between the Town of Verona, the City of Verona, and the City of Fitchburg for Fitch-Rona EMS, second by Wiederhoeft. Discussion by board. Mathies stated he sent several other typos to be corrected before signing and sending back. He would prefer a corrected copy before signing. Motion approved by voice vote. Mathies and Wiederhoeft opposed
B. Discussion and Possible Action: Intergovernmental Agreement between the Town of Verona and the City of Verona for Senior Services. Gaskell stated that over the past 3 years the town's portion of their budget has increased significantly. The contract is a Five-year agreement with a $2.5 \%$ increase and contains a termination clause. The town will not have a have an advisory member on the committee. Motion by Wiederhoeft to approve Intergovernmental Agreement between the Town of Verona and the City of Verona for Senior Services, second by Lonsdorf. Discussion by board. Mathies stated that he would like to review the actual cost of services and would like to see more research prior to approval. Geller stated that Belleville used an age demographic to determine cost. Maxwell asked if this is a time sensitive issue and needs to be decided tonight. Lonsdorf agrees with location of City of Verona but cost was decided based only on what we were paying Belleville, would like to negotiate with the city regarding price and services offered. Geller said we do not have many options. Gaskell stated that seniors will get transport services, Belleville Center is a nonprofit, the Verona center is a city department that reports to a city committee and the budget is reviewed by the city, with monthly reports. Mathies asked how Dane County funding will be affected. Mathies moved to table the previous motion, failed for lack of second. Motion approved by voice vote. Mathies opposed.
C. Discussion and Possible Action: Ad Hoc Committee to Study the Impact of Growth in the Town of Verona Final Report Review Process. Motion by Geller to have the Ad Hoc Committee Study the Impact of Growth in the Town of Verona Final Report Review Process, second by Maxwell. Geller thanked ad hoc committee for all of work on report. Mathies would like to know the process going forward. Geller stated that the Plan Commission will consider the ad hoc committee report and any revisions. Wiederhoeft asked how this will fit in that the recommendations are to go to the town board, feels this should not be delegated to the plan commission and the board should decide. Geller stated that if anyone would like to see the report, they can request it from town hall. Maxwell stated that the recommendations are regarding land use and this is something that Plan Commission is best prepared to review those recommendations. Geller stated the agenda item is only next steps of the report. Roll call vote Mathies - yes, Lonsdorf - yes, Wiederhoeft - no, maxwell yes, Geller - yes. Lonsdorf motion to make ad hoc committee be available to the public and
announced on the Friday email ad community news from administrator, second by Wiederhoeft. Maxwell amends motion that misconceptions in the report be corrected before the report is made public and corrected by staff, second by Mathies. Substitute motion by Lonsdorf that the town chair call a special town board meeting, date to be determined, to have a board discussion regarding the ad hoc committee report and to have clarifications made to the report before it is made public, second by Mathies. Motion approved by voice vote.
D. Discussion and Possible Action: Resolution 2021-05 Establishing an American Rescue Plan Act Grant Fund. Motion by Geller to approve Resolution 2021-05 Establishing an American Rescue Plan Act Grant Fund, second by Lonsdorf. Motion approved by voice vote. Mathies opposed.
E. Motion to go into Closed Session per Wis. Stats. §19.85 (1) (c) Considering Employment, Promotion, Compensation or Performance Evaluation Data of any Public Employee over which the Governmental Body has Jurisdiction or Exercises Responsibility; the purpose of the Closed Session is to Consider Reappointment of Town Clerk/Treasurer Terms and Employee Performance Evaluation.

9:46 pm Motion by Wiederhoeft to enter closed session, second by Maxwell. Roll call:+ 5 ayes, 0 nays.
F. 9:55 pm Motion by Mathies to return to open session, second by Lonsdorf. Motion approved by voice vote.
G. Action on Issues Discussed in Closed Session Including Resolution 2021-06 Appointment of Town Clerk/Treasurer. Motion by Mathies to approve Resolution 2021-06 Appointment of Town Clerk/Treasurer with an end date change to July 19, 2024 and the annual salary of 60,030 which is $3.5 \%$ and will be reviewed annually, second by Wiederhoeft. Motion approved by voice vote.
H. Discussion and Possible Action: Payment of the Bills. Motion by Geller to approve payment of June bills, second by Mathies. May bills Motion approved by voice vote.
9) Motion by Lonsdorf to adjourn, second by Wiederhoeft, meeting adjourned with no objections at 9:58 pm.

Prepared by Teresa Withee, Town Clerk
Approved:

## TOWN OF VERONA

TO: Town Board of Supervisors
FROM: Sarah Gaskell, Planner/Administrator

SUBJECT: Administrator Report for August 2021

## Upcoming Meetings

- Financial Sustainability August $26^{\text {th }}, 2: 30$ pm Town Hall
- Plan Commission August 19 ${ }^{\text {th }}, 6: 30 \mathrm{pm}$ Zoom
- NRAC - no meeting this month
- Public Works - no meeting this month


## General

- Staff vacation: Judd: August 2-10; Withee: August 16 - 20; $27^{\text {th }}$
- Remote hours continue for the following staff:
- Teresa Withee - Wednesdays
- Sarah Gaskell - Thursdays
- Website
- Updates in process - change to weekly update/listserve
- Staff works on the website as time permits
- Senior Services Contract approved by the COV Common Council; TOV Senior Services will begin at the COV Verona Senior Center January 1, 2022
- Plan for Sept/Oct Town Hall Open House to follow STB meeting - Saturday; plow truck; ice cream social; shredding event etc.
- First allocation of Recovery Act Funds received - \$100,691 set aside until federal guidance is finalized and Board decisions have been made
- Town Hall mask guidance - everyone inside Town Hall is strongly encouraged to wear a mask


## Work Plan

- Finalize Subdivision Ordinance
- Blanket Rezone process for Cross Country Circle Neighborhood
- Comprehensive Plan Amendments, if applicable
- Electronic file organization
- Communications Plan
- Emergency Plan
- Impact Fee Analysis


## TOWN OF VERONA

TO: Town Board of Supervisors
FROM: Sarah Gaskell, Planner/Administrator

SUBJECT: Administrator Report for September 2021

## Upcoming Meetings

- Financial Sustainability September $26^{\text {th }}, 2: 30$ pm location TBD
- Plan Commission September $9^{\text {th }}$ and $16^{\text {th }}$
- NRAC - September 28 ${ }^{\text {th }}$, 6:30pm location TBD
- Public Works - September 28 ${ }^{\text {th }} 7: 00 a m$ Town Hall


## General

- Remote hours continue for the following staff:
- Teresa Withee - Wednesdays
- Sarah Gaskell - Thursdays
- Website
- Staff works on the website as time permits
- Senior Services begin at the COV Verona Senior Center January 1, 2022;

Seniors receiving case management services to be individually notified about the change

- Open House scheduled for September $25^{\text {th }}$ from $11-1$ pm; postcard invite to be sent to all town residents
- First allocation of Recovery Act Funds received -\$100,691 set aside until Board decisions have been made
- Town Hall mask guidance - masks required indoors via Public Health Order (expires September 16 ${ }^{\text {th }}$ 2021)


## Work Plan

- Finalize Subdivision Ordinance
- Blanket Rezone process for Cross Country Circle Neighborhood
- Comprehensive Plan Amendments, if applicable
- Electronic file organization
- Communications Plan
- Emergency Plan
- Impact Fee Analysis


## TOWN OF VERONA

TO: Town Board of Supervisors DATE: July 30, 2021<br>Public Works Committee

FROM: W. Christopher Barnes, Public Works Director
SUBJECT: Monthly Report - July 2021
The monthly Public Works Department Activity report is submitted for the information and review of the Board and the Committee. July has been a busy month with the cleanup of the July $29^{\text {th }}$ storm, sign maintenance, tree and brush trimming and seasonal road repairs. Numerous citizen and resident concerns and action requests were received and addressed on a daily basis. If you should have any questions, please let me know.

## Road Maintenance Activities

- Replaced/repaired six road signs.
- Added gravel shouldering on Tonto Trail, Grandview Road and Sunset Drive.
- Cut brush on various roads for sign visibility (Sunset, Range Trail, Demarco Trail, Sugar River)
- Continued pothole repairs with cold patching material.
- Storm Damage Clean up (see below)


## Equipment and Facility Activities

- Mowed town prairie trails and pond area.
- Prepared for several town community room rentals.
- Sent traffic counter in for battery replacement


## Sanitary Sewer Utility Activities

- Submitted the 2020 Compliance Maintenance Annual Report to the State of Wisconsin.


## Engineering Activities

- Survey work was completed for the Valley Road Bridge. Soil boring will also take place this summer.
- Completed inspection for substantial completion for the Twin Rock Subdivision
- Prepared for the final paving and shouldering of prairie Circle Subnivium during the first week of August.
- Prepared name change request for a portion of Stony Ridge Circle which was cut off from Pleasant View Road in 2018. The resolution to rename a portion of Stony Ridge Circle to Stony Ridge Court will be presented to the board after review by Dane County.


## July 29 ${ }^{\text {th }}$ Storm Maintenance

- Most damage was concentrated in the Cross Country Circle area with isolated trees down around the town. Other areas of tree removal were Shady Bend, Dairy Ridge, Range Trail, Woods Road, and Country View Road. Approximately 20 tree or portions thereof were cut and removed from the right of way. In some instances, storm damaged trees outside the right of way were left for clean up by the property owner. Wolfe Tree Service performed some emergency aerial limb removal for hanging limbs over the road. (See attached photos) the town crew worked from 2:30 am to 3:00 pm on the $29^{\text {th }}$ and follow up on the $30^{\text {th }}$ during regular hours.

cc: Sarah Gaskell, Town Planner/Administrator Mark Judd, Road Patrolman



Cross Country Circle entrance


Cross Country Circle Loop


Range Trail

## TOWN OF VERONA

TO: Town Board of Supervisors<br>DATE: August 31, 2021<br>Public Works Committee

FROM: W. Christopher Barnes, Public Works Director
SUBJECT: Monthly Report - August 2021
The monthly Public Works Department Activity report is submitted for the information and review of the Board and the Committee. August has been a busy month with the cleanup of numerous trees from storm events, sign maintenance, tree and brush trimming and seasonal road repairs. Numerous citizen and resident concerns and action requests were received and addressed on a daily basis. If you should have any questions, please let me know.

## Road Maintenance Activities

- Replaced/repaired five road signs.
- Added gravel shouldering on Tonto Trail, Grandview Road and Sunset Drive.
- Cut brush on various roads for sign visibility (Midtown Road, Timber Lane, Paulson Road White Crossing)
- Continued pothole repairs with cold patching material.


## Equipment and Facility Activities

- Mowed town prairie trails and pond area.
- Received traffic counter in for battery replacement
- Replaced Fire alarm back up batteries and reset after power outage.
- Received building paint maintenance quotes
- Received john Deere 544E wheel and tire replacement quote


## Sanitary Sewer Utility Activities

- Began placing all sewer service ap location on the GIS map.
- Responded to 5 Digger Hotline utility relocate requests


## Engineering Activities

- Scheduled Valley Road Bridge kick off meeting for September 23.
- Initiated the 2023 Dane County Hazard Mitigation Plan with the Public Works Committee. The plan is a summary of issues the town sees as natural hazards. floods, snow storms, tornados, and makes the town eligible for FEMA disaster relief funds.
- Completed the final paving of Prairie Circle Subdivision
- Received the 2021 State of Wisconsin road certification and pavement rating package for completion by December 2021.
- Placed traffic counter for Fitchrona Road speed study
cc: Sarah Gaskell, Town Planner/Administrator Mark Judd, Road Patrolman


## TOWN OF VERONA

TO: Town Board of Supervisors
FROM: Teresa Withee, Clerk/Treasurer
SUBJECT: June 2021 Clerk/Treasurer Report

## Clerk

- Attended Town Board meeting and recorded minutes
- Attended Local Redistricting Webinar
- Open records request for liquor license information
- Completed election postcard information in WisVote


## Treasurer

- Reviewed invoices, printed checks, prepared unpaid invoice reports and check detail reports
- Monthly bank reconciliations
- Prepared information for Financial Sustainability Committee meeting
- Completed a request for tax payment information
- Set up online bill pay and consolidated three invoices for the town credit cards
- Attended WI Municipal Treasurer Association Virtual Training and Meeting


## TOWN OF VERONA

TO: Town Board of Supervisors
FROM: Teresa Withee, Clerk/Treasurer
SUBJECT: August 2021 Clerk/Treasurer Report

## Clerk

- Dog license report was reconciled and forwarded to Dane County
- Open records request was received and processed
- CSM signed and notarized for a resident


## Treasurer

- Reviewed invoices, printed checks, prepared unpaid invoice reports and check detail reports
- Monthly bank reconciliations
- Began preliminary budget preparations
- State form SL-311 Video Service Provider report was completed and submitted to the state


## TOWN OF VERONA

## TO: Town Board of Supervisors

FROM: Sarah Gaskell, Planner/Administrator
DATE: September ${ }^{7 \text { th }}, 2021$
RE: Administrator's Memo - September Town Board Meeting

## Plan Commission

1. Discussion and Possible Action: Site Plan Approval for Final Phase of Construction for the Madison-Verona Self Storage facility located at 4201 Maple Grove Road, submitted by Jamie and Cameron Lindau. The applicant is seeking approval for a final buildout of the property. The Plan Commission discussed the item at its July meeting and voted to recommend approval (5-0) with the condition that an updated landscape plan be provided.
2. Discussion and Possible Action: Land Use Application 2021-11 submitted by Sugar River Investors, LLC for a rezone from AT-35 to RM-16 for parcel 062/0608-301-8001-1 located at 2325 Sugar River Road, Verona WI
a. Discussion included RM-16 allowable uses, future lot splits, consistency with surrounding land uses. There was a motion to recommend approval of Land Use application 2021-11 subject to the following condition:
i. The conditional uses of this parcel be limited to those of the RR-16 zoning category Motion carried by voice vote.
3. Discussion and Possible Action: Land Use Application 2021-06 submitted by Noa Prieve on behalf of Stilwell Trust, 6411 Sunset Drive, for a 4-unit Condo Plat Concept Approval and Rezone (parcel number 062/060-364-8990-2 from RM-16 to MFR-08.
a. The Plan Commission discussed the item at its August meeting. Discussion included preservation of rural viewshed, creation of private driveway access agreements between neighbors and HOA, definition of limited common elements, changing the placement of building envelope on Lot 3, providing field access for the property to the south, removal of public road dedication from the plat, Ice Age Trail dedication, and addition of utility easements to the plat; applicant is asked to consider changes for the preliminary plat. A Motion was made to recommend approval subject to
i. Final Plat approval
ii. deed restriction for single family homes.
4. Discussion and Possible Action: Land Use Application 2021-12 submitted by D'Onofrio Kottke on behalf of Mishpacha LLC (Harvey Temkin) 2325 Sugar River Road for a CSM and Rezone creating a 7-acre lot to be rezoned to RR-4.

The Plan Commission discussed the item at its August meeting. Discussion items included upgrading existing driveway to meet code for fire truck access, dedication of Road ROW on Sugar River Road, future land use of the driveway, maximum number of users of shared driveway easement. A motion was made to recommend approval of the CSM with the following conditions
a. Removal of the work "preliminary" (met)
b. Addition of dedication of road ROW (met)
c. Removal of City of Verona as an approving authority (met)
d. Removal of note \#4 (met)
e. Town accept the ROW dedication

Motion carried 5-0.
5. Discussion and Possible Action: Land Use Application 2021-06 submitted by Twin Rock LLC for Preliminary Plat Approval for property near 2528 Spring Rose Road (062/0608-183-8681-0 and 0-608-183-31809)
a. Discussion included previously requested changes from last iteration; mailbox placement, trail surface, shared access for lots 1 and 2 on Spring Rose Road and recommended changes to the draft covenant. A motion was made to approve recommendation of the Preliminary Plat subject to the following conditions:
i. Approval of Developer's Agreement
ii. Shared driveway access between Lots 1 and 2

Motion carried 4-0-1.

## Public Works

1. Discussion and Possible Action: Town Road Speed Limit Recommendation for Paulson Road and Woods Road to be changed from 55 miles per hour to 45 mile per hour
2. Discussion and Possible Action: Resolution 2021-07 to Rename a Portion of Stony Ridge Circle and Name a New Roadway Constructed as a Result of the County Trunk Highway M Project

## Natural and Recreational Areas Committee

1. Proposed Priorities for 2021-2022
a. Improved trail connections
b. PDR/TDR development
c. Map significant natural features
d. Watershed management
e. Town Prairie management plan

## New Business

1. Discussion and Possible Action: Town of Verona Financial Support Contribution to the 2022 MPO Budget
The MPO is requesting a contribution of $\$ 494$ towards the local share financing of their annual budget. This amount is based on the TOV's proportionate share of the population within the Planning Area.
2. Discussion and Possible Action: Dane County Ordinance Amendment 2021-OA-002 to revise the text of various sign regulation provisions in Chapter 10 of the Dane County Code of Ordinances Lauber reported on the August $12^{\text {th }}$ Zoom meeting with several towns and Dane County staff. All issues, except for the temporary sign issue in the DCTA 7/26/2021 memo, were discussed in detail and resolved.
County staff proposed the shortened time period for temporary signs (proposed reduction from 60 to 30 days) to address problems with mini market banners. DCTA is concerned this would put farm stands out of compliance. County staff did not see this causing an issue because they don't start counting the days for a temporary sign until they get a complaint. The Executive Board discussed how reducing the number of days permitted could create one standard for conscientious businesses and another for businesses that are aware of the County enforcement policy. It would also give a good amount of power to people that file complaints.
The definition of temporary signs was also discussed. County staff will be proposing new language.
County staff will make amendments to the proposal based on the input referenced above and an ordinance amendment will be introduced. Towns will then have a chance to review and comment on the proposed changes.


Town of Verona
Regular Town Board Meeting Minutes
Tuesday, March 3, 2020 6:30 PM
Town Hall/Community Center
7669 County Highway PD, Verona, WI 53593-1035
Present: Geller, Mathies, Maxwell, Duerst, Enburg
Staff Present: Barnes, Judd
Also Present: see sign in sheet

1. Call to Order/Approval of the Agenda-Geller called the meeting to order at $6: 30$ PM. Maxwell moved to approve the agenda, $2^{\text {nd }}$ Enburg. Motion carried by voice vote

## 2. Pledge of Allegiance

3. Public Comment-No public comment
4. Approval of Minutes from February 4, 2020 Regular Meeting, and February 17, 2020 Special Meeting-Duerst moved to accept the minutes of February 4, 2020 Regular Board Meeting with removal of "Ray" from the Wagner reference. $2^{\text {nd }}$ by Maxwell. Motion carried by voice vote. Duerst moved to accept the minutes of February 17, 2020 Special Meeting; $2^{\text {nd }}$ by Mathies. Motion carried by voice vote.
5. Review and Possibly Approve an Amendment to the Town of Verona Building Code by Ordinance 2020-02 per the Recommendations from the Department of Safety and Professional Services-Geller introduced the ordinance to strike the requirement of Master Electrical Certification for the issuance of a Town of Verona electrical permit. Enburg moved to approve the resolution; $2^{\text {nd }}$ by Maxwell.

Discussion and Action- Maxwell questioned why the electrical qualifications were struck out; Mathies replied that changes were made to make the Town's ordinance to be consistent with Wisconsin's Electrical Code. Ordinance amendment approved by voice vote.
6. Discussion and Possible Action to Adopt a Policy to Allow Exceptions to the Dane County Public Road Frontage Requirements for Lots by Resolution 2020-02-Mathies explained that the Dane County Code, chapter 75 requires that all lots must have road frontage, unless a Town adopts an ordinance, which may allow exceptions to the road frontage requirement. Mathies stated that it is common for Towns in Dane County to adopt such an ordinance. Mathies referenced the recent Town Board approval of the Temkin lot for their house. Enburg stated that he believed that it was acceptable for Dane County to approve no more than six lots on a single access. Motion by Maxwell to adopt resolution 2020-02; $2^{\text {nd }}$ by Enburg. Motion carried by voice vote.

## 7. Reports and Recommendations

- Plan Commission
i. Discussion and action on Final Plat - Land use application 2019-3 submitted by Tim and Linda Sweeney and Dave DiMaggio for review of a Final Plat and associated documents for Prairie Circle (parcel numbers 0608-074-8533-0 and 0608-074-8093-0) for Fourteen residential lots and one outlot-Geller introduced the Prairie Circle development and Maxwell explained the process of the development from concept plan to final plat approval stage.
Maxwell state that the Town Plan Commission unanimously approved the presented Plat on February 3, 2020. The next step in the approval process will be the approval by Dane County Zoning and Land Regulation Committee. Geller introduced the property owners, Tim and Linda Sweeny and David DiMaggio and asked if the Board members had any questions of the owner, of if the owners had any questions of the board. The property owners had no comments. Mathies state that he believed that no action could be taken on the final plat since the plat drawing did not show the existing Prairie Circle cul-de-sac right of way configuration (which includes the cul-de-sac bulb right of way). The current drawing sheet 2 of 6 dated February 3, 2020 shows the bulb of the cul-de-sac to be partially vacated to represent a consistent 66 -foot right of way width. Duerst stated that the cul-de-sac vacation omission was not a problem for him since it is in the works and is next on the board agenda for action. Mathies stated that he would be OK with the conditional approval of the final plat as presented once the cul-de-sac vacation is completed. Tim Sweeney stated that the surveyor (Noa Prieve) did not include the existing cul-de-sac bulb right of way per direction form the Dane County planning staff. Maxwell made a motion to accept the Prairie Circle Final Plat dated February 3, 2020 as prepared by Williamson Surveying \& Associates (Noa Prieve) with the condition that the vacation of the excess right of way at the cul-de-sac be finalized by the Board; $2^{\text {nd }}$ by Mathies. Motion carried by voice vote.
ii. Discussion and action for the partial vacation of the Prairie Circle right-of-way by Resolution 2020-03, schedule Public Hearing, and authorize filing the lis pendens with the Dane County Register of Deeds-Maxwell introduced the vacation documents relative to the vacation of right of way at the bulb of the existing Prairie Circle cul-de-sac. Staff (Wright and Barnes) have been working on the documents necessary for the vacation of excess right of way at the existing Prairie Circle cul-de-sac. If approved then the process could move forward with a public hearing on possible action on April 14, 2020 Board Meeting. Barnes explained that when the extension Prairie circle was completed, that the road at the cul-de-sac would be reconstructed to a typical 22 foot wide roadway and that the existing cul-de-sac pavement would be removed and the earthwork regraded to match the Prairie Circle typical section.

Once complete, the excess right of way as shown on the Exhibit "A" of the Lis Pendens would be discontinued. Barnes stated that the "vacated Prairie Circle "B" was shown in the documents since the records indicate that the area was "dedicated to the Public" per the Town of Verona Resolution 01-08 7 Aug 2001as shown on Certified Survey Map 9599. Barnes stated that the area in question was apparently reserved for a future eastern road extension and that Town records indicate that on July 17, 2007, the Town executed a quit claim deed of the area to David DiMaggio, Beverly DiMaggio and Salvatore DiMaggio. Barnes sated that discussions with the Dane County planning staff implied that the County recognizes that document and the parcel has been reincorporated into Lot 1 of the Prairie Circle Final plat. Maxwell stated that there would be no harm in delaying the vacation in order to coordinate with the Dane County process. No action was taken on Resolution 2020-3.
iii. Discussion - neighborhood covenants and developer's agreement- Maxwell introduced the draft covenants for the Praire Circle development. Maxwell is working with the Town Attorney on the final version of the development agreement. Geller asked why the design review committee only consisted of the developer/owners and not the homeowners association. Tim Sweeney stated that they planned to sell lots and they wished to hold the design review until all of the lots were sold. Duerst asked about what species of trees would be allowed? Linda Sweeney replied that there was not a list of acceptable trees species, but rather each house built would be required to have a landscape plan, which would be submitted to the design review committee. Duerst added that it might be a good idea to select specific tree species. Maxwell pointed out that section 4.16 of the covenents stated no tents and asked if this applies to kids camping out in the back yard or wedding tents? Maxwell also noted that section 9.03 required that the mailbox area be shoveled. Duerst asked Mark Judd if he had any problems with mailboxes being cleared or shovel. Judd stated no. Maxwell introduced the Prairie Circle Storm Water management Plan, and stated that it would go to the Dane County for review and approval.
iv. Discussion and action - Land use application 2019-11 submitted by Cameron and Jamie Lindau on behalf of Swan You See LCC for a rezoning from RM-8 (Rural Residential) to HC (Heavy Commercial) and a site plan review for a self-storage facility proposed for parcel number 0608-132-8790-0 on Maple Grove Drive-Maxwell introduced the land use application and site plan for the proposed Madison/Verona Self Storage facility on Maple Grove Drive. The site is located north of the existing Dane County maintanence facility. Maxwell explained that the current zoning is RM8 (rural mixed use) and the request form the applicant is to rezone to HC (heavy commercial). Maxwell summarized the Town Staff Report and introduced Mr. Jamie Landau who offered a power point presentation of the project. Mr. Lindau stated that Cameron and Meg Lindau would be the owner of the self-storage facility and Trachte Building Systems (TBS) of Sun Prairie, Wisconsin would be manufacturer. Jamie Lindau has worked for TBS for many years and owns the self-storage unit off Park Street and one in Sun Prairie and De Forest. Lindau stated that he had a market analysis performed by Chiswell Associates to determine the demand for additional storage units in the area. This unit would supply about $1 / 5^{\text {th }}$ of the estimated demand. Duerstt asked "are you buying the land" Lindau replied -yes. Lindau discussed the existing wetlands and the design to accommodate the existing wetlands areas and required setbacks. Lindau stated that he had applied to the U.S. Army Corp of Engineers (USACE) for a "Letter of Map Revision" to eliminate five small wetland areas shown on the current floodplain mapping. Lindau explained that since the USACE process takes so long, that he intends to begin construction on the initial phase, which does not impact the wetland areas. Durest asked why the wetlands were present if the site was filled sevral years ago? Lindau replied that the wetlands naturally developed into fill area if there is a wet area. Lindau reviewed the site plan with details of the build style and design. Lindau explained the security and lighting systems to be used and how the project would meet the Dark Sky Ordinance by the use of motion sensitive lighting and fixtures. Mathies had questions about the landscaping and if the trees were to be planted in a pattern. Duerst asked if the trees were all conifers. Lindau responded that he was open to a scattered style of tree planting and that the tree species were a variety of conifer and deciduous trees. Lindau explained that the build would have a septic and well for the office area. Maxwell asked Barnes for a brief report on the traffic impacts. Barnes stated that the impact of the facility would be minimal and would not affect peak hour traffic patterns. Barnes stated that the gate offset was important for vehicle stacking and Lindau replied that the gate was situated approximately 70 feet from the edge of Maple Grove Drive and would provide adequate vehicle stacking. Lindau explained that the site had room for eight more buildings and an outdoor storage area. Mathies questions how the outside storage area would be screened, Lindau replied it would be screened by the proposed trees, but that since Maple Grove Drive to the south of the site is 30 feet higher that the subject property, that there would be some visibility from Maple Grove Drive. Maxwell commented that Roger Lane of Dane County had reviewed the materials and found them satisfactory. Lane also sent Maxwell a list of proposed conditions that should be placed on the zoning change request.

Maxwell made a motion: to approve land use application 2019-11 for a change from RM8 to HC zoning for parcel number 0608-132-8790-0 with the following conditions:

1. The land uses shall be limited exclusively to a personal storage facility; outdoor storage of vehicles and recreational vehicles; and offices in conjunction with the personal storage facility. Auctions associated with contents of storage spaces are permitted on an intermittent basis.
2. The physical development of the property shall be constructed per the concept plan P-52104 dated 3/2/2020 (attached). All phases of the project shall obtain site plan approval by the Town of Verona prior to construction.

The property has identified wetland areas. Development is prohibited in these areas unless the landowner obtains approval from the US Army Corp of Engineers and the area is rezoned out of the wetland classification by Dane County.
4. Landscaping shall be installed in accordance with the approved landscaping plan. The landscaping shall be installed within 1 year after a building permit is issued for the construction of the personal storage facility. All landscaping shall be maintained. Any landscaping that becomes diseased or dies shall be replaced within 30 days of notification. Landscaping plans shall be approved by the Town Board for subsequent phases of the project prior to construction.
5. Illumination of the property shall be installed in accordance with the approved lighting plan. The lighting shall be installed in a manner to not cause glare from viewed by US 151. Lighting plans shall be approved by the Town Board for subsequent phases of the project prior to construction.
6.

The landowner shall obtain all necessary permits for erosion control and stormwater management. The stormwater management features shall be installed and maintained in accordance with permit approvals.
7. Signs on the property shall be limited to the signs identified as part of the approval. The internally illuminated signs shall be prohibited.
8. The installation of billboard signs (off-premise advertising) shall be prohibited.
$2^{\text {nd }}$ by Durest. Motion carried by voice vote
Maxwell made a motion to: approve the concept plan dated $3 / 2 / 2020$ for a self-storage facility for parcel number 0608-132-8790-0. $2^{\text {nd }}$ by Duerst. Motion carried by voice vote.
v. Discussion - Parade of Homes at Twin Rock Development-Geller introduced Haley Saalsaa, 7891 Riverside Drive, and she stated that she was one of the owners/developers of the Twin Rocks subsivion located on Spring Rose Road. Saalsaa explained that the owners/developers are interested in pursuing the development for the 2021 Madison Area Homebuilders Association Parade of Home (PoH). The PoH proposal will be submitted to the Madison Area Homebuilders association in May of 2020 for the 2021 show. Saalsaa provided a summary sheet, which shared the details of the program. The PoH would run for 10 to 12 days and averages 3000 to 8000 total attendees. Traffic is estimates at 5 to 50 vehicles/day. Saalsaa stated that parking would be provided either on the road or on a vacant lot. Maxwell asked if the homes built would need to comply with the subdivisions covenants. Saalsaa replied-yes. Geller stated that the Town had not had a PoH and he was in favor. Duerst state that he was also in favor and asked if future PoH events could be held in the Town and that the PoH was a good opportunity to promote the Town. No action was taken.

- Public Works
i. Review of 2020 maintenance program-Enburg asked Barnes to present the 2020 road Maintenance program. Barnes referenced the memo in the agenda and summarized the road projects slated to be bid: Locust Drive, Timber lane, Cross Country Road, and Mid Town Road. Barnes stated that at the February $24^{\text {th }}$ Public Works Committee meeting, there was much discussion regarding the selected roads and that some other roads should be included as alternates. Barnes stated that he and Judd surveyed three additional roads: Black Cherry Court, Paulson Road and Cross Country Circle. The three roads were added to the 2020 bidding documents prepared by MSA Professional Services. Enburg stated that while he understood the condition of the roads, he had been moving the Town towards doing more roads used by town residents and delaying work on roads, such as Locust Drive, that served mostly pass through traffic. Enburg explained that future development along Locust Drive, included a possible school, would likely result in portions of Locust Drive being annexed into the City of Verona. Enburg stated that similarliy, other such "shared use" roads, as Whalen Road, Grandview Road, and Fitchrona Road should have a shared cost with the respective to the Cities of Verona or Fitchburg. Enburg encouraged the other board members to look at the prepared Capital improvement Plan and decide what roads were priorities. Duerst stated that he had traveled Locust Drive and that in his opinion it needed to be repaired. Duerst noted that there are only eight home on Black Cherry Court and 28 on Cross Country Circle. Maxwell asked when Black Cherry Court was built; Duerst replied that he thought in the mid 1980's.
ii. Brian Miller, 1815 Locust Drive, spoke from the audience and mentioned that the Wisconsin Department of Transportation was planning to relocate about 500 feet of Locust Drive in front of his property in the future, and the Town did not need to repair that section. Miller stated that due to the relocation, he would be left with a "spite strip" in front of his property and he wanted some assistance in resolving this matter with the State. Barnes offered to assistance Mr. Miller in this regard. Enburg stated that it was issues like these that make Locust Drive less desirable to repair. Geller asked when were the addition streets in the capital improvement plan to be repaired? Barnes replied that they were generally 2 to 3 years out. Enburg stated that the town should engage the adjacent Cities to help with the cost. Geller replied that these are Town roads and we have to keep them up. We all use city streets too and all parties need to be responsible for their own roads.

Please review the Town of Verona Comprehensive Land Use Plan and Subdivision and Developmem Ordnance 05-04 (found on the Town website: www.town.verona.wi.us) and Dane County Ordinances Chapter 10-Zoning, Chapter 11Shoreland, Shoreland-Whetfand and Intand-Wfetiand Regulations and Chapter 75 - Land Division amd Subdivision Regulations prior to application.

Proposed hand use change form
Property addresshegai description 2325 Sugar River Road
Please check alt that apply:

AT .35 ARR. 2 (spot zone within AT.35) new zoning category requested RMM 16
$\square$ conditional use permit
conditional use requested
$\square$ cerwied survey map

- preliminary prat

II final certified survey map
4 concept plan
प site plan
11 request forlorn moan access ( $1 /$ David)
Property Owner: Sugar River Investors, Lle ( loo David) $k$ luger Phone\#, 608.658 .1514 Address: 2325 Sugar River Rd.

Enmaili dkruger@fioneco.com
Apphicam, if differem from the property owner: $n / a$
Applicants Phone" $a / a \quad$ EMail $1 / a$

I hereby authorize
to act as my agent in the application process for the above indicated land use change.

Slanature
Description of Rama Use Change requested: (please be specific and use reverse side if additional space is needed)
The current parcel is 39.48 acres zoned AT.35, with a 2.03 acre spot zone, zoned RR. 2 , continued within it. The parcel is currently row cropped. We request re zone of both the AT. 35 \& RR. 2 Pros to RM •16. We also request formal acknowledgenmit that a zoning change to RM .I6 would...


[^0]Description of Land Use Change requested continued:
... preserve the future developrunat opportunity on the site, per the current comprehensive plan.
This rezone well allow my daughter's fancy to build near our home and preseme as much agnorlteral use on the rest of the parcel as possible.

## Planning Report

Town of Verona July 22 ${ }^{\text {nd }}, 2021$

## 2325 Sugar River Road

Summary: The applicant seeks a rezone from RR 2 (2.03-acre spot zone) and AT35 to RM-16 for parcel number 062/0608-301-8001-1.

Property Owner: Sugar River Investors LLC, David Krueger
Property Addresses: 2325 Sugar River Road, Verona WI 53593
Applicant: same

Location Map


## Comprehensive Plan Guidance:

The density of this area is Residential RR 2-4 acres, so 1 house per 2-4 acres. The parcels are currently zoned RR 2 and AT-35 so a rezone would be consistent for this parcel.

Current and Proposed Zoning: The current zoning for the parcels are RR 2 and AT-35 (36.32 AT acres and 2.03 for the spot zone). The new zoning would be RR 16 for the entire parcel. The spot zone would be removed.

Extra-territorial Review/Boundary Agreement Authority: This parcel is in Area C of the boundary agreement with the City of Verona so no further approvals are required.

Surrounding Land Use and Zoning: The surrounding land uses include AT-35 and an RR-2 spot zone.

Site Features: The site features agricultural land.

Driveway Access: The property utilizes access via an existing driveway from Sugar River Road.

Other: Removal of the spot zone and a rezone to RM-16 would allow for the construction of one single family home on the parcel as well as accessory buildings if desired. This is not anticipated to affect the eventual development of the larger parcels at some time in the future.

## ZONING EXHIBIT



7530 Westward Way, Madison, WI 53717 Phone: 608.833.7530 • Fax: 608.833.1089 your natural resource for land development




## AREA TO BE REZONED RM-16

Lot 1, Certified Survey Map No. 8957, located in the SE1/4 of the SE1/4 and the NE1/4 of the SE1/4 of Section 19 and in the NE1/4 of the NE1/4 of Section 30, T6N, R8E, Town of Verona, Dane County, Wisconsin, described as follows: Commencing at the most easterly corner of said Lot 1 ; thence $549^{\circ} 20^{\prime} 45^{\prime \prime} \mathrm{W}$, 702.56 feet to a point of curve; thence Southwesterly along a curve to the left which has a radius of 800.00 feet and a chord which bears $\mathrm{S} 24^{\circ} 56^{\prime} 08^{\prime \prime} \mathrm{W}, 661.23$ feet; thence $\mathrm{S} 00^{\circ} 31^{\prime} 31^{\prime \prime} \mathrm{W}, 88.52$ feet; thence $\mathrm{N} 89^{\circ} 28^{\prime} 29^{\prime \prime} \mathrm{W}, 392.55$ feet; thence $\mathrm{N} 00^{\circ} 31^{\prime} 31^{\prime \prime} \mathrm{E}, 99.01$ feet; thence $\mathrm{N} 00^{\circ} 37{ }^{\prime} 12^{\prime \prime} \mathrm{E}, 1997.24$ feet; thence $\mathrm{S}_{8} 8^{\circ} 36^{\prime} 55^{\prime \prime} \mathrm{E}, 892.00$ feet; thence $\mathrm{S} 16^{\circ} 32^{\prime} 03^{\prime \prime} \mathrm{E}, 946.45$ feet; thence $\mathrm{S} 40^{\circ} 39^{\prime} 15^{\prime \prime} \mathrm{E}, 33.00$ feet to the point of beginning. Containing 39.476 acres.

## TOWN OF VERONA

## APPLICATION FOR LAND USE CHANGE

Please review the Town of Verona Comprehensive Land Use Plan and Subdivision and Development Ordinance 05-04 (found on the Town website: www.town.verona.wi.us) and Dane County Ordinances Chapter 10 - Zoning, Chapter 11 Shoreland, Shoreland-Wetland and Inland-Wetland Regulations and Chapter 75 - Land Division and Subdivision Regulations prior to application.

APPLICATION IS MADE to the Town of Verona Board for a land use change for:


Please check all that apply:
$\square$ comprehensive plan amendment
> rezone petition
current zoning category
new zoning category requested $\qquad$
$\square$ conditional use permit
conditional use requested $\qquad$
$\square$ certified survey map
x preliminary plat
final certified survey map
$\gg$ concept plan
$\square$ site plan
$\square$ request for Town road access
Property Owner: STINE E LIVMGTROST, LEE + BENTSTILWEL Phone\# 608-576-0231
Address:
1730 BEACH RD, VERONA, $4 \% 153593$
EMail IANedbstilwelletas,met
Applicant, if different from the property owner: WIClIARESNVELIMG - MOR PRIEVE
Applicant's Phone\#_608-2,55-5705 EMail

If the applicant is different from property owner, please sign below to allow the agent to act on behalf of property owner.
I hereby authorize Moi PRIEVE
to act as my agent in the application process for the above indicated land use change.

$\frac{5,17,21}{\text { Date }}$
Description of Land Use Change requested: (use reverse side if additional space is needed)
THE OWnERS WOULDS LIKE TO CREATE A CONDO PLAT DIVIDE THE EXISTING PROPERTY
AUTO FOUR CONDO UNITS.

I certify that all information is true and correct. I understand that failure to provide all required information will be grounds for denial of
Applicant Signature
Print Name LEESTLLWELL

## RETURN COMPLETED APPLICATION OF MAPIPLAN AND ANY OTHER INFORMATION VIA EMAIL TO:

Sarah Gaskell, Planner/Administrator, Town of Verona
7669 County Highway PD, Verona, WI 53593-1035
sgaskell@town.verona.wi.us
A pre-application meeting or initial review may be scheduled with Town Staff and/or Plan Commission Chair if you have questions or concerns. Please call 608-845-7187 with questions.

# Planning Report <br> Town of Verona 

May $14^{\text {th }}, 2021$

## 1730 Beach Road/6411 Sunset Drive

> Summary: The applicant is seeking approval for a Condo Plat for parcel number $062 / 0608-364-8790-2$. The plat would create four units of approximately $5.27,5.73$, 4.31 and 4.31 acres in size.

Property Owner: Stilwell Trust
Property Addresses: 1730 Beach Road, 6411 Sunset Drive

| Applicant: | Noa Prieve <br> Williamson Surveying |
| :--- | :--- |

## Location Map



## Comprehensive Plan Guidance:

The density of this area is Residential RR 4-8 acres, so 1 house per 4-8 acres. The parcel is currently zoned RM 16 so a rezone would be appropriate for this parcel.

Current and Proposed Zoning: The current zoning is RM 16. The new zoning would be MFR08 for each unit because the parcel is a proposed condominium. Currently 20.26 acres, the parcel would consist of 4 units of various sized acreages.

Extra-territorial Review/Boundary Agreement Authority: This parcel is in Area C of the boundary agreement with the City of Verona and is in the ETJ area of the City of Fitchburg. No further action is required with the City of Verona. The City of Fitchburg has indicated they will not approve any subdivisions for land in the ETJ area for parcels less than 35 acres and have no interest in rezone applications.

Surrounding Land Use and Zoning: The surrounding land uses are RR 1, 2 and 4. The parcel directly south is zoned RM 16.

Site Features: The site features pasturelands, agricultural fields, a residence and numerous sheds and farm buildings. The topography is varied, and the applicants keep llamas on the property. There is a driveway that provides private access from Beach Road to Sunset Road. Additionally, the private drive extending south from Beach Road is utilized by two adjacent landowners.

Driveway Access: It is anticipated that driveway access for Unit 4 will remain unchanged. Units 1, 2 and 4 will share a driveway easement with the neighbors to the west. Currently, there are three residences utilizing the shared access. This proposal would add an additional 2 driveways to this access. Access for Unit 3 will be via Sunset Drive using the existing driveway.

Other: There are existing driveway easement agreements with Lot 3 CSM 5396 and Lot 1 CSM 6372 owners on Beach Road. The owners of these lots were in support of the proposal when it was proposed as a land subdivision via CSM. The applicant is working with the Ice Age Trail Alliance to dedicate the existing path that traverses the perimeter of the property on the Eastern and southern sides to the IAT. The easement is depicted on the condominium plat.
Due to the proposed size of the units, the County has responded that stormwater concerns can be handled individually on each unit instead of via an outlot/common element. The driveway access for Lots 1,2 and 4 will be achieved via the designation of a Limited common element, as outlined in the draft Declarations.
An informal neighborhood meeting regarding the proposed plat was held on June $13^{\text {th }}, 2021$.




$$
\begin{aligned}
& \text { Land Use Applicahc } \\
& 2021-12
\end{aligned}
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TOWN OF VERONA
APPLICATION FOR LAND USE CHANGE
Please review the Town of Verona Comprehensive Land Use Plan and Subdivision and Development Ordinance 05-04 (found on the Town website: www.town.verona.wi.us) and Dane County Ordinances Chapter 10 - Zoning, Chapter 11 -Shoreland, Shoreland-Wetland and Inland-Wetland Regulations and Chapter 75 - Land Division and Subdivision Regulations prior to application.

Proposed land use change for:
Property address/legal description 2313 SUGAR RIVER

Please check all that apply:
$\square$ comprehensive plan amendment - please see specific submittal requirement Der rezone petition current zoning category

$\square$ conditional use permit
conditional use requested
X certified survey map
$\square$ preliminary plat
$\square$ final certified survey map
$\square$ concept plan
$\square$ site plan

- request for Town road access

Property Owner: $\qquad$ Phone\# (608) 206-5947

Address: $\qquad$ EMail HTENKIN 1152 QGMAIL.COM

Applicant, if different from the property owner: $\qquad$
Applicant's Phone\# E-Mail

If the applicant is different from property owner, please sign below to allow the agent to act on behalf of property owner,
I hereby authorize
to act as my agent in the application process for the above indicated land use change.

## Signature

Date
Description of Land Use Change requested: (please be specific and use reverse side if additional space is needed)
RECONFIGURE THE EXISTING REM ZONING PARCEL
AND ADD A "FLAG POLE" TO THE I LOT SM SO
THAT HE NEW WT WU HOVE FRONTAGE ON SUGAR RIVER RD.

I certify that all information is true and correct. I understand that failure to promblie all required information will be grounds for denial of


## RETURN COMPLETED APPLICATION OF MAP/PLAN AND ANY OTHER INFORMATION VIA EMAIL TO:

Sarah Gaskell, Planner/Administrator, Town of Verona
7669 County Highway PD, Verona, WI 53593-1035
sgaskell@lown.verona.wi.us
A pre-application meeting or initial review may be scheduled with Town Staff and/or Plan Commission Chair if you have questions or concerns. Please call 608-845-7187 with questions.

# Planning Report 

Town of Verona
August 19 ${ }^{\text {th }}, 2021$

## 2313 Sugar River Road

Summary: The applicant seeks a rezone from RR 2 to RR 1 for the 2.03-acre spot zone located in parcel number 062/0608-203-9002-7 as well as a relocation of said spot zone.

Property Owner: Mishpacha LLC, Harvey Tempkin
Property Addresses: 2313 Sugar River Road, Verona WI 53593
Applicant: same

## Location Map



## Comprehensive Plan Guidance:

The density of this area is Residential RR 2-4 acres, so 1 house per 2-4 acres. The parcel is currently zoned RR 1 (spot zone) and AT-35 so a rezone would be consistent for this parcel.

Current and Proposed Zoning: The current zoning for the parcels are RR 1 (1.85 acres) and AT-35 (43.42). The new zoning would be RR 4 ( 7.11 acres combined from the AT-35 parcel and from the RR-1 parcel). A portion of the RR-1 parcel would be rezoned back to AT-35 as well. The CSM creates a flag lot providing 66' of frontage on Sugar River Road. Approximately 3 acres of the proposed CSM is related to access to the frontage.

Extra-territorial Review/Boundary Agreement Authority: This parcel is in Area C of the boundary agreement with the City of Verona so no further approvals are required.

Surrounding Land Use and Zoning: The surrounding land uses include AT-35 and an RR-2 spot zone. There is one other residence that currently uses the existing driveway via a shared easement agreement.

Site Features: The site features rolling hills and agricultural land.

Driveway Access: It will remain unchanged.

## CERTIFIED SURVEY MAP

LOCATED IN THE SE1/4 OF THE SE1/4 OF SECTION 19 AND IN THE SWI/4 OF NW1/4, THE NWI/4 OF THE SWI/4 AND THE SWI/4 OF THE SWI/4 OF SECTION 20, 6N, R8E, TOWN OF VERONA, DANE COUNTY, WISCONSIN G6' WIDE



LOT
CSM
CO

+N67047'15"E $14.45^{\prime}$

LOT 1 CSM 6604

LANDS

LANDS

LEGEND

- PLACED 3/4"X18" IRON REBAR $W T=1.5 L B S / F T$
$\triangle \quad$ PLACED PK NAIL
- FOUND 3/4" REBAR


## D'ONOFRIO KOTTKE AND ASSOCIATES, INC

7530 Westward Way, Madison, WI 53717 Phone: 608.833.7530 • Fax; 608.833.1089 YOUR NATURAL RESOURGE FOR LAND DEVELOPMEN
300
Scale 1" $=300^{\prime}$
SHEET 1 OF 5

DATE: Sep+ember 3, 2021
F.N.: 17-07-110
C.S.M. NO.

DOC. NO. $\qquad$

## CERTIFIED SURVEY MAP

LOCATED IN THE SE1/4 OF THE SEl/4 OF SECTION 19 AND IN THE SW1/4 OF NW1/4, THE NW1/4 OF THE SWl/4 AND THE SWl/4 OF THE SW1/4 OF SECTION 20, 6N, R8E, TOWN OF VERONA, DANE COUNTY, WISCONSIN


## D'ONOFRIO KOTTKE AND ASSOCIATES, INC

7530 Westward Way, Madison, WI 53717 Phone: 608.833.7530 • Fax; 608.833.1089 YOUR NATURAL RESOURCE FOR LAND DEVELOPMENT

DATE: September 3. 2021
F.N.: 17-07-110
C.S.M. NO. $\qquad$
DOC. NO. $\qquad$

## CERTIFIED SURVEY MAP

## located in the sel/4 Of The Sel/4 OF SECTION 19 AND IN THE SWl/4 OF NW1/4, THE NW1/4 OF THE SWl/4 AND THE SWl/4 OF THE SWl/4 OF SECTION 20, 6N, R8E, TOWN OF VERONA, DANE COUNTY, WISCONSIN

## SURVEYOR'S CERTIFICATE

I, Brett T. Stoffregan, Professional Land Surveyor, S-2742, do hereby certify that this survey is in full compliance with Chapter 236.34 of the Wisconsin statutes and the Subdivision Regulations of the Town of Verona and Dane County, Wisconsin and under the direction of the Owners listed below, I have surveyed, divided and mapped the land described herein and that said map is a correct representation of the exterior boundaries of the land surveyed and the division thereof. Said land is described as follows:

A parcel of land located in the SE1/4 of the SE1/4 of Section 19 and in the SW1/4 of the NW1/4, the NW1/4 of the SW1/4 and the SW1/4 of the SW1/4 of Section 20. T6N. R8E, Town of Verona, Dane County, Wiscons in to-wit:
Commencing at the Southwest corner of said Section 20; thence S89044'59"E, 278.16 feet along the South line of said SW1/4; thence NOOO15'01"E, 935.90 feet to the point of beginning; thence N42 ${ }^{\circ} 58^{\prime} 43^{\prime \prime}$ W, 416.00 feet; thence $N 47^{\circ} 01^{\prime} 07^{\prime \prime} \mathrm{E}, 481.17$ feet to a point of curve; thence Northeasterly along a curve to the left which has a radius of 834.64 feet and a chord which bears N36056'58"E, 291.85 feet; thence N26 ${ }^{\circ} 5^{\prime}$ '49"E, 105.00 feet to a point of curve; thence Northeasterly along a curve to the right which has a radius of 533.00 feet and a chord which bears N41²1'28"E, 266.50 feet; thence N55 ${ }^{\circ} 0^{\prime} 07^{\prime \prime} \mathrm{E}, 228.32$ feet to a point of curve; thence Northeasterly along a curve to the left which has a radius of 417.00 feet and a chord which bears N41²9'59"E, 206.50 feet; thence N2709'51"E, 238.91 feet to a point of curve; thence Northeasterly along a curve to the right which has a radius of 283.00 feet and a chord which bears N47028'33"E, 196.47 feet; thence N67047'15"E, 43.02 feet; thence S01011'39"W, 71.91 feet; thence $567^{\circ} 47^{\prime} 15^{\prime \prime} \mathrm{W}, 14.45$ feet to a point of curve; thence Southwesterly along a curve to the left which has a radius of 217.00 feet and a chord which
 Southwesterly along a curve to the right which has a radius of 483.00 feet and a chord which bears S41²9'59"W, 239.18 feet; thence S55 ${ }^{\circ} 50^{\prime} 07^{\prime \prime}$ w, 228.32 feet to a point of curve; thence Southwesterly along a curve to the left which has a radius of 467.00 feet and a chord which bears $541^{\circ} 21^{\prime} 28^{\prime \prime} W$. 233.50 feet; thence S26052'49"W. 105.00 feet to a point of curve; thence Southwesterly along a curve to the right which has a radius of 900.64 feet and a chord which bears S36²1'02"W, 296.38 feet; thence S42年年 $53^{\prime \prime} \mathrm{E}, 350.20$ feet; thence $547^{\circ} 01^{\prime} 07^{\prime \prime} \mathrm{W}, 500.00$ feet to the point of beginning. Containing 309,799 square feet including road right-of-way and 308,692 square feet excluding road right-of-way.

Dated this $\qquad$ 2021.

Brett T. Stoffregan, Professional Land Surveyor S-2742

## NOTES

1. A portion of Lot 1 is with FEMA Zone A described as areas subject to inundation by the 1 -percent-annual-chance flood event generally determined using approximate methodologies. Because detailed hydraulic analyses have not been performed, no Base Flood Elevations (BFEs) or flood depths are shown. Mandatory flood insurance purchase requirements and floodplain management standards apply.
2. Refer to building site information contained in the Dane County Soil Survey.
3. Monuments and ties for the South $1 / 4$ corner and the Southwest corner of Section 20, T6N, R8E were found intact.
$\qquad$

## CERTIFIED SURVEY MAP

LOCATED IN THE SE1/4 OF THE SE1/4 OF SECTION 19 AND IN THE SWI/4 OF NW1/4, THE NWI/4 OF THE SWI/4 AND THE SWI/4 OF THE SWI/4 OF SECTION 20, 6N, R8E, TOWN OF VERONA, DANE COUNTY, WISCONSIN

OWNER'S CERTIFICATE
MISHPACHA, LLC, a Wisconsin limited liability company duly organized and existing under and by virtue of the laws of the State of Wisconsin, as owner. does hereby certify that said 1 imited liability company caused the land described on this map to be surveyed, divided, mapped. and dedicated as represented on this map.

MISHPACHA, LLC, does further certify that this map is required by s.236.34 to be submitted to the Town of Verona. Dane County and City of Verona for approval.

IN WITNESS WHEREOF, the said MISHPACHA, LLC, has caused these presents to be signed this day of $\qquad$ , 2021.

MISHPACHA, LLC

```
STATE OF WISCONSIN)
COUNTY OF DANE IS.S.
```

Personally came before me this day of $\qquad$ , 2021, the above named person(s) to me known to be the person(s) who executed the foregoing instrument and acknowledged the same.

Notary Public, Dane County, Wisconsin
My commission expires:

DATE: September 3, 2021
F.N.: 17-07-110
C.S.M. NO.

DOC. NO. $\qquad$
VOL.

## CERTIFIED SURVEY MAP

LOCATED IN THE SEI/4 OF THE SEI/4 OF SECTION 19 AND IN THE SWI/4 OF NWI/4, THE NWI/4 OF THE SWI/4 AND THE SWI/4 OF THE SWI/4 OF SECTION 20, 6N, R8E, TOWN OF VERONA, DANE COUNTY, WISCONSIN

```
TOWN OF VERONA CERTIFICATE
This Certified Survey Map is hereby acknowledged and accepted by the Town of Verona, Dane County,
Wisconsin on___ 2021.
```

Teresa Withee, Clerk. Town of Verona
DANE COUNTY APPROVAL CERTIFICATE
Approved for recording per Dane County Zoning and Land Requlation Committee
action of
$\qquad$ , 2021.

Daniel Everson, Authorized Representative

## REGISTER OF DEEDS CERTIFICATE

Received for recording this $\qquad$ day of $\qquad$ , 2021, at
o'clock $\qquad$ . M. and recorded in Volume_ $\qquad$ of Certified Survey Maps on Pages as Document Number

Kristi Chlebowski, Dane County Register of Deeds

DATE: September 3. 2021
F.N.: 17-07-110
C.S.M. NO.

DOC. NO. $\qquad$

## ZONING DESCRIPTIONS

## AT-35 and RR-1 to RR-4

A parcel of land located in the NE1/4 of the SE1/4 and the SE1/4 of the SE1/4 of Section 19 and in the SW1/4 of the NW1/4, the NW1/4 of the SW1/4 and the SW1/4 of the SW1/4 of Section 20, T6N, R8E, Town of Verona, Dane County, Wisconsin to-wit:
Commencing at the Southwest corner of said Section 20; thence S89 $44^{\prime} 59^{\prime \prime}$ E, 278.16 feet along the South line of said SW1/4; thence $\mathrm{N} 00^{\circ} 15^{\prime} 01^{\prime \prime} \mathrm{E}, 935.90$ feet to the point of beginning; thence $\mathrm{N} 42^{\circ} 58^{\prime} 43^{\prime \prime} \mathrm{W}, 416.00$ feet; thence $\mathrm{N} 47^{\circ} 01^{\prime} 07^{\prime \prime} \mathrm{E}, 481.17$ feet to a point of curve; thence Northeasterly along a curve to the left which has a radius of 834.64 feet and a chord which bears $\mathrm{N} 36^{\circ} 56^{\prime} 58^{\prime \prime} \mathrm{E}, 291.85$ feet; thence $\mathrm{N} 26^{\circ} 52^{\prime} 49^{\prime \prime} \mathrm{E}, 105.00$ feet to a point of curve; thence Northeasterly along a curve to the right which has a radius of 533.00 feet and a chord which bears $\mathrm{N} 41^{\circ} 21^{\prime} 28^{\prime \prime} \mathrm{E}, 266.50$ feet; thence $\mathrm{N} 55^{\circ} 50^{\prime} 07^{\prime \prime} \mathrm{E}, 228.32$ feet to a point of curve; thence Northeasterly along a curve to the left which has a radius of 417.00 feet and a chord which bears $\mathrm{N} 41^{\circ} 29^{\prime} 59^{\prime \prime} \mathrm{E}, 206.50$ feet; thence $\mathrm{N} 27^{\circ} 09^{\prime} 51^{\prime \prime} \mathrm{E}, 238.91$ feet to a point of curve; thence Northeasterly along a curve to the right which has a radius of 283.00 feet and a chord which bears $\mathrm{N} 47^{\circ} 28^{\prime} 33^{\prime \prime} \mathrm{E}, 196.47$ feet; thence $\mathrm{N} 67^{\circ} 47^{\prime} 15^{\prime \prime} \mathrm{E}, 43.02$ feet; thence $\mathrm{S} 01^{\circ} 11^{\prime} 39^{\prime \prime} \mathrm{W}, 71.91$ feet; thence S $67^{\circ} 47^{\prime} 15^{\prime \prime} \mathrm{W}, 14.45$ feet to a point of curve; thence Southwesterly along a curve to the left which has a radius of 217.00 feet and a chord which bears $\mathrm{S} 47^{\circ} 28^{\prime} 33^{\prime \prime} \mathrm{W}, 150.65$ feet; thence $\mathrm{S} 27^{\circ} 09^{\prime} 51^{\prime \prime} \mathrm{W}$, 238.91 feet to a point of curve; thence Southwesterly along a curve to the right which has a radius of 483.00 feet and a chord which bears $\mathrm{S} 41^{\circ} 29^{\prime} 59^{\prime \prime} \mathrm{W}, 239.18$ feet; thence $555^{\circ} 50^{\circ} 07^{\prime} \mathrm{W}, 228.32$ feet to a point of curve; thence Southwesterly along a curve to the left which has a radius of 467.00 feet and a chord which bears $\mathrm{S} 41^{\circ} 21^{\prime} 28^{\prime \prime} \mathrm{W}, 233.50$ feet; thence $\mathrm{S} 26^{\circ} 52^{\prime} 49^{\prime \prime} \mathrm{W}, 105.00$ feet to a point of curve; thence Southwesterly along a curve to the right which has a radius of 900.64 feet and a chord which bears $\mathrm{S} 36^{\circ} 21^{\prime} 02^{\prime \prime} \mathrm{W}, 296.38$ feet; thence $\mathrm{S} 42^{\circ} 58^{\prime} 53^{\prime \prime} \mathrm{E}, 350.20$ feet; thence $\mathrm{S} 47^{\circ} 01^{\prime} 07^{\prime \prime} \mathrm{W}, 500.00$ feet to the point of beginning. Containing 7.112 acres.

## RR-1 to AT-35

A parcel of land located in the SW1/4 of the SW1/4 of Section 20, T6N, R8E, Town of Verona, Dane County, Wisconsin to-wit: Commencing at the Southwest corner of said Section 20; thence S89 ${ }^{\circ} 44^{\prime} 59^{\prime \prime}$ E, 278.16 feet along the South line of said SW1/4; thence N $00^{\circ} 15^{\prime} 01^{\prime \prime} \mathrm{E}, 935.90$ feet; thence $\mathrm{N} 47^{\circ} 01^{\prime} 07^{\prime \prime} \mathrm{E}, 70.42$ feet to the point of beginning; thence $\mathrm{N} 47^{\circ} 01^{\prime} 07^{\prime \prime} \mathrm{E}, 200.00$ feet; thence S42 ${ }^{\circ} 58^{\prime} 53^{\prime \prime} \mathrm{E}, 85.60$ feet; thence $\mathrm{S} 47^{\circ} 01^{\circ} 07^{\prime \prime} \mathrm{W}, 200.00$ feet; thence $\mathrm{N} 42^{\circ} 58^{\prime} 53^{\prime \prime} \mathrm{W}$ W, 85.60 feet to the point of beginning. Containing 0.393 acres.

# dane county 

REGISTER OF DEEDS

EASEMENT AGREEMENT

In re:

The Lands as described on Exhibit C hereto and Lots 1, 2, 3, and 4, of Certified Survey Map No. 8957, as recorded in Volume 57 of Certified Survey Maps, at Page 72, as Document No. 2986457, in the Office of the Dane County Register of Deeds, all in the Town of Verona, Dane County, Wisconsin.

Trans. Fee

| Rec. Fee | 24.00 |
| :--- | ---: |
| Pages |  |

000488

Return To:
Harvey L. Temkin, Esq.
Foley \& Lardner
P.O. Box 1497

Madison, WI 53701-1497
Parcel I.D. Nos.:

$$
\begin{aligned}
& \frac{31-0608-194-8191-3}{31-0608-194-9500-6} \\
& 31-0608-194-9550-6 \\
& 31-0608-301-8000-2 \\
& 21-0608-301-9500-5
\end{aligned}
$$

AGREEMENT made as of the 5 th day of March, 1999, by Mishpacha, L.L.C., a Wisconsin limited liability company ("Granter").

## RECITALS:

1. Granter is the owner in fee simple of the Lands as described on Exhibit $\mathbf{C}$ hereto, hereinafter referred to as the "Unplatted Lands", and Lots 1, 2, 3, and 4, of Certified Survey Map No. 8957, as recorded in Volume 57 of Certified Survey Maps, at page 72, as Document No. 2986457, in the Office of the Dane County Register of Deeds, Wisconsin, a copy of such certified survey map being attached hereto as Exhibit A, the Unplatted Lands and said Lots 1, 2, 3, and 4 hereinafter referred to as the "Subject Property".
2. Grantor desires to create an easement for ingress and egress on that portion of the Subject Property which is indicated by the words "sixty-six (66) foot wide (private) ingress egress easement to provide access for Lots 1, 2, 3 and 4 to Sugar River Road" and as more fully described on Exhibit B (the "Easement Property") and as shown on Exhibit $A$ across Lots 1, 2, 3 and 4 and extending across the Unplatted Lands, said easement hereinafter referred to as the Easement Property
3. Grantor desires to specify the terms and conditions upon which the Easement Property will be maintained and used.

NOW, THEREFORE, in consideration of the mutual provisions herein contained affecting the Subject Property:

1. Creation of Easements. Grantor hereby dedicates for use of the owners of the Subject Property and their respective heirs, successors and assigns, together with their respective tenants, employees, and invitees, a perpetual, nonexclusive easement for ingress and egress purposes only over the Easement Property, hereinafter the "Easement", which Easement shall run with the land and be appurtenant to the Subject Property.

## 2. Maintenance and Improvement.

(a) Until such time as construction is commenced on Lot 1,2, 3 or 4, the owner of the Unplatted Lands shall be responsible for maintaining the Easement Property from Sugar River Road up to the point at which the Easement Property intersects with the driveway leading to the home marked "existing house" on Exhibit A, unless the maintenance is required due to an act or omission of an owner of Lot 1, 2, 3 or 4 or said owner's agents, employees or invitees, in which case said owner shall be responsible for promptly undertaking and completing such work at said owner's sole cost and expense.
(b) The owner of the Unplatted Lands may, at any time and at its sole cost and expense, cause any portion of the Easement Property located on the Unplatted Lands to be moved, provided that such moving shall not interfere with the right of ingress and egress to and from Sugar River Road. Such portion, as so moved, shall then be subject to this Easement Agreement and all owners of the Subject Property shall then execute and place of record an Amended Easement Agreement which shall change the legal description of the Easement Property.
(c) Upon commencement of construction on Lot 1, 2, 3 or 4, the owner of the Unplatted Land and the owner of those lots of Lot $1,2,3$, or 4 which have construction commenced or completed thereon shall become responsible for cost of upkeep and repair of the Easement Property, including removal of snow, ice and other obstructions therefrom, and the filling of potholes and ruts, in proportion to the number of houses using the Easement Property, except, however, that if any owner or such owner's agents, employees or invitees, should cause damage to the Easement Property due to excessive use (such as, by way of example only, damage that may be caused by construction vehicles), the said owner shall be solely responsible for promptly undertaking and completing such repair at said owner's sole cost and expense. By way of example, if the owner of Lot 1 constructs or has constructed a house on Lot 1 and if current house on the Unplatted Lands as shown on Exhibit A and the new house on Lot 1 are the sole two houses then existing, then the owners of the Lot 1 house and the owner of said current house shall equally share the cost of upkeep and
repair of the Easement Property. Unless otherwise agreed to by and between the owners of the Subject Land, the owner of the Unplatted Lands shall be responsible for contracting for such work and shall bill the other owners of the Subject Lands in the proportionate amount owed by each of them. Any amount not paid within ten (10) days of when billed shall accrue interest of fifteen percent ( $15 \%$ ) per annum. The non paying/non performing owner shall also be obligated to pay all costs, expenses and disbursements, including attorneys' fees, which may be incurred in enforcing the payment obligation or any other obligation contained in this Agreement.
(c) The Easement Property is currently developed with a road which is completed from Sugar River Road to the most easterly point of Lot 1, as shown on the attached certified survey map, Exhibit A hereto. If the owner of Lot 1, 2, 3 or 4, desires to extend the road along the remainder of the Easement Property, or some portion thereof, then the owner so requesting such extension shall notify the other owners of Lots 1, 2, 3 and 4, hereinafter the "other owners" and provide plans and specifications therefor, which the other owners shall have the right to approve, which approval shall not be unreasonably withheld or delayed. The requesting owner shall further provide three (3) bids for such work, and the other owners shall within fifteen (15) days after the requesting owner has forwarded the bids to the other owners, agree on which bid to accept. Absent such agreement, the lowest bid shall be used. The requesting owner may then have the road constructed with the owners of Lots $1,2,3$ and 4 equally sharing the cost therefor ( $25 \%$ of such cost to be paid by the owner of each of Lot 1, 2, 3, and 4). Such amounts shall be owing to the requesting owner within thirty (30) days after receipt by the other owners of the billing therefor (together with any requested backup and waiver of lien rights). Failure to timely make payment shall result in the same rights and remedies as apply in the event of failure to timely pay for repair and maintenance, as provided above. The road shall be built to present town standards, except that the width of the road asphalt surface does not need to comply with such standards.
(d) Upon the request of any owner of any of the Subject Lands, all the owners of the Subject Lands shall join in a petition to the Town of Verona to make the road a town road, and the owners of each of the Unplatted Lands and Lots 1, 2, 3, and 4 shall each be responsible for twenty percent (20\%) of the cost of bringing the driveway within the Easement up to the required town road standards. The requesting owner and the other owners shall proceed with the necessary construction work and payment thereof in the same manner as set forth in section (c) immediately above.
3. Taxes. Each owner of the Subject Lands shall be responsible for timely payment of all real estate taxes, both general and special, levied against the portion of the Easement Property located on said owner's respective property.
4. Insurance. Each owner of the Subject Lands shall obtain reasonable and customary public liability insurance on that portion of the Easement Property lying on said owner's respective property.
5. Warranty of Title. Grantor hereby warrants that it has good and indefeasible fee simple title to the Easement Property, subject to easements, building and use restrictions and municipal and zoning ordinances and that it has full power and authority to convey the rights granted herein. Each owner of the Subject Property retains the right to encumber that portion of the Easement Property located on said owner's respective property, but any such encumbrance shall be subject to this Easement.
6. No Interference With Rights. No owner of the Subject Land hereto shall at any time interfere, or permit said owner's tenants, employees or invitees to interfere, with the ingress and egress rights of use of the Easement by any other owner or said owner's tenants, employees or invitees. No parking or other blockage, whether partial or total, shall be allowed in the easement roadway.
7. Attorneys' Fees. Any owner of the Subject Lands may enforce this instrument by appropriate action, and should said owner prevail in such litigation, the owner shall recover as part of said owner's costs reasonable attorneys' fees.
8. Additional Lands. This Easement shall also be appurtenant to any land which may come into common ownership with the Subject Property.
9. Amendment or Termination. This Agreement may be amended or terminated by a document executed by all of the owners of the Subject Lands, and the consent of no other party shall be required. Any such document shall be recorded with the Dane County Register of Deeds Office.
10. Notice. Notice hereunder shall be sufficient if in writing and personally served or mailed, postage-prepaid and properly addressed, to the other owner at aid owner's last known address by registered or certified mail, return receipt requested.
11. Binding Effect. All provisions of this instrument, including the benefits and burdens, run with the land and are binding upon and inure to the benefit of the Grantor and the Grantor's heirs, personal representatives, successors and assigns.

IN WITNESS WHEREOF, this instrument executed under seal as of the date first above written.

## COUNTY OF DANE

Personally came before me this $5^{\text {th }}$ day of Y/ALCL, 1999 , the above-named Harvey L. Temkin, to me known to be a member of Mishpacha, L.L.C., a Wisconsin limited liability company and the person who executed the foregoing instrument and acknowledged the same on behalf of said limited liability company.


Name: NONNA T LINDALER Notary Public, State of $\omega^{\prime}$
My commission: esp $11-18-200$.

This document was drafted by:
Attorney Harvey L. Temkin
Foley \& Lardner
P. O. Box 1497

Madison, WI 53701-1497

NOTE: PLEASE BE ADVISED THAT THE DOCUMENT GRANTOR(S) HEREBY DIRECT VIEWERS TO IGNORE THE PRINTED TEXT MATERIAL ON THIS MAP. ONLY THE SPATIAL RELATIONSHIPS OF THE ILLUSTRATIONS ON THE MAP ARE BEING PRESENTED FOR YOUR INFORMATION.

Signed by grantor(s) or grantor(s) agent: $\qquad$ Date (use black ink) os/6/1/9G9

Name of grantor(s) or grantor(s) agent printed: (use black ink) $\qquad$



## CERTIFIED SURVEY MAP

(Private)

## INGRESS/EGRESS EASEMENT TO PROVIDE ACCEES FOR LOTS 1, 2,3 AND 4

 FROM SUGAR RIVER ROADA parcel of land located in the $N E 1 / 4$ and $S E 1 / 4$ of che $S E 1 / 4$ of Section 19, the NW $1 / 4$ and SW $1 / 4$ of the $S W 1 / 4$ and $S W 1 / 4$ of the NW $1 / 4$ of Section 20, and in the east $1 / 2$ of the NE $1 / 4$ of Section 30. T6N, R8E. Town of Verona, Dane Councy, Wisconsin, To-wit: Commencing at che southwest corner of gaid Section 20 ; thence NB9051'55"E, 1315.40 feet; Ehence NO0.44'36"E, 660,08 feet; thence $889051^{\prime \prime} 55^{\prime \prime} \mathrm{W}, 30,04$ feet; thence NOOO49'13"E, 1826.67 feet; thence NO9028.01"E, 181.84 feet; chence NOO"49'12"E, 5,85 feet to the point of beginning; thence northwesterly on a curve to the right which has a radius of 206.05 feet and a chord Which beara N3I ${ }^{\circ} 44^{\prime} 25^{\prime \prime W}, 0.90$ feet; thence $567^{\circ} 24^{\prime} 34^{\prime \prime} \mathrm{W}$, 14.12 feet co a point of curve; thence southwescerly on a curve to the left which has a radius of 217.00 feet and a chord which bears $547^{\circ} 05^{\circ} 52^{\prime \prime} \mathrm{H}, 150.65$ feet: chence $526.47^{\prime 111 W} 238.91$ feat co a point of curve: thence southwesterly on a curve to the right which has a radium of 483.00 feet and a chord which bears 541907'18"W. 239.18 feet; chence 555"27'26"W, 228.32 feet to a point of curve, thence sourhweaterly on a curve to the left which has a radius of 467.00 feet and a chord which bears S40058.47"W, 233.50 Eeet; chence $526^{\circ} 30^{\circ} 08^{\prime \prime} W, 105.00$ feet to a point of cuzve; thance southwesterly on a curve to the right which has a radius of 900.64 feet and a chord which beara $536^{\circ} 34$ '17"W, 314.93 Eeet; ehence S46038.25"W, 541.72 feet to a point of curve; thence sourhwesterly on a cuzve to the right which has a raddus of 1727.03 feet and a chord which bears $547^{\circ} 59.35^{\prime \prime} \mathrm{W}, 81.54$ feet; chence $549020.45 " \mathrm{~W}, 773.44$ feet to a point of curve; thence southwesterly on a curve co the laft which has a radius of 767.00 feet and a chord which bears $524^{\circ} 56^{\circ} 08^{\prime \prime W}$, 633.95 feet; chence soo.31'32"W. 479.92 Eeet to a poinc of curve; chence southeascerly on a curve to the left which has a radius of 767.00 feet and a chord which beare $516^{\circ} 12^{\prime} 46^{\prime \prime} E$, 441,79 feet; thence $532^{\circ} 5^{\prime \prime} 04^{\prime \prime} E$, 151.45 feet; thence southeasterly on a curve eo the right which has a radius of 733.00 feet and a ohord which bears $523^{\circ} 00^{\prime} 26^{\prime \prime} \mathrm{E}, 253,16$ feer; chence $513^{\circ 03} 47^{\prime \prime E} 533.60$ feet to a point on a curve; ehence gourhwesterly on a curve to the right which has a radius of 60.00 feet and a chord which beare $575^{\circ} 56^{\prime \prime} 13^{\prime \prime} \mathrm{W}, 66.00$ feet; chence N13003.47"W, 533.60 feet to a point of curve; chence northwesterly on a curve to the left which has a radius of 667.00 teat and a chord which bearg
 curve; thence norchwesterly on a curve to the right which has a radius Of 833.00 feer and a chord which bears NI $6^{\circ} 12^{\prime} 46^{\prime \prime} \mathrm{W}, 479.81$ feet; thence N 00031 '31"E, 479.92 feec to a point of curve; chence northeasterly on a curve to the right which has a radius of 833.00 feet and a chord which beare N24ㅇ́s'0日"E, 688, S0 feat; thence N49020'45"E, 773.44 feet to a poinc of curve: chence northeascerly on a curve to the left which has a radius of 1661.03 feet and a chord which bears N47059.35"E, 78.42 feet; chence $N 46^{\circ} 38^{\prime 2} 26^{\prime \prime} \mathrm{E}$, 541.72 feet to a point of curve; thence northeasterly on a curve co the left which han a radius of 634.64 feet and a chord which bears N36034.27"E, 291.95 feet; thence N26030'08"E, 105,00 feet to a point of curve; thence norcheasterly on a curve ro the righe which has a radius of 533.00 feer and a chord which bears N40050.47"E, 266.50 feet; thence N55 ${ }^{\circ} 27^{\prime} 26^{\prime \prime E}$ E, 228.32 feet; thence norcheasterly on a curve ro the left which has a radius of 417.00 feer and a chord which bears N41007'18"E, 206.50 feet; chence N26047111"E, 238.91 feet to a point of curve; thence northeasterly on a curve to the right which hag a radius of 283,00 feet and a chord which bears N47005.52"E, 196.47 feet; chence N67024'34"E, 43.22 feet; chence S00.49'12"W, 72.89 feet to the point of beginning. Containing 0.603 acres.


D'ONOFRIO, KOTTKE AND ASSOCIATES, INC.

7530 WESTWARD WAY 7530 WESTHARD WAY
MADISON, WISCONSIN 63717 TEL: COB-835-7630 FAX: 600-833-1089


| REV: $5-23-98$ |  |
| :---: | :---: |
| date | 3-4-98 |
| F.N. | 98-07-100 |
| CSM NO. -225 |  |
| DDC. | NO. 298 CYS7 |
| VOL | 52 PAGE 73 |

A parcel of land located in the $S E 1 / 4$ of Section 19 and the SW $1 / 4$ of Section 20 , T6N, R8E, Town of Verona, Dane County, Wisconsin, To-wit: Commencing at the southwest corner of said Section 20; thence N89 ${ }^{\circ} 51^{\prime} 55^{\prime \prime} \mathrm{E}$, along the south line of the SW $1 / 4$, of said Section 20, 1315.40 feet; thence $N 00^{\circ} 44^{\prime \prime} 36^{\prime \prime} \mathrm{E}, 571.00$ feet to the point of beginning; thence N89 ${ }^{\circ} 15^{\prime} 24^{\prime \prime} \mathrm{W}, 804.92$ feet; thence $\mathrm{N} 43^{\circ} 21^{\prime} 34 \mathrm{~W} \mathrm{~W}, 772.14$ feet; thence $\mathrm{N} 43^{\circ} 11^{\prime} 01 \mathrm{WW}, 33.00$ feet to a point on a curve; thence southwesterly on a curve to the right which has a radius of 1694.03 feet and a chord which bears S48.04'52"W, 74.78 feet; thence $549^{\circ} 20^{\prime} 45^{\prime \prime} \mathrm{W}, 70.88$ feet; thence $\mathrm{N} 40^{\circ} 39^{\prime \prime} 15^{\prime \prime} \mathrm{W}, 33.00$ feet; thence $N 16^{\circ} 32^{\prime} 03^{\prime \prime W}, 946.45$ feet; thence $588^{\circ} 36^{\prime \prime} 55^{\prime \prime} \mathrm{E}, 403.47$ feet; thence $500^{\circ} 30^{\prime} 41 \mathrm{NW}, 1.31$ feet; thence $589^{\circ} 10^{\circ} 48^{\prime \prime} \mathrm{E}$, 647.94 feet to a point on a curve; thence northeasterly on a curve to the right which has a radius of 533.00 feet and a chord which bears
 point of curve; thence northeasterly on a curve to the left which has a radius of 417.00 feet and a chord which bears N41007.18"E, 206.50 feet; thence $N 26^{\circ} 47^{\prime} 11^{\prime \prime} \mathrm{E}, 238.91$ feet to a point of curve; thence northeasterly on a curve to the right which has a radius of 283.00 feet and a chord which bears N47005'52"E, 196.47 feet; thence $N 67^{\circ} 24^{\prime} 34 \mathrm{E}$ E, 43.22 feet to the westerly edge of Certified Survey No. 6604; thence $500^{\circ} 49^{\prime} 12^{\prime \prime} \mathrm{W}$, along said westerly edge 78.74 feet; thence $509^{\circ} 28^{\prime} 01^{\prime} \mathrm{W}$, continuing along said westerly edge, 181.84 feet; thence $500^{\circ} 49^{\prime} 13^{\prime \prime} \mathrm{W}$, 1826.67 feet; thence $\mathrm{N} 89^{\circ} 51^{\prime} 55^{\prime \prime} \mathrm{E}$; 30.04 feet; thence $500^{\circ} 44^{\prime} 36 \mathrm{WW}, 89.08$ feet to the point of beginning. Continuing 2,205,736 square feet (50.64 acres).

## TOWN OF VERONA <br> APPLICATION FOR LAND USE CHANGE

Please review the Town of Verona Comprehensive Land Use Plan and Subdivision and Development Ordinance 05-04 (found on the Town website: www.town.verona.wi.us) and Dane County Ordinances Chapter 10 - Zoning, Chapter 11 Shoreland, Shoreland-Wetland and Inland-Wetland Regulations and Chapter 75 - Land Division and Subdivision Regulations prior to application.

APPLICATION IS MADE to the Town of Verona Board for a land use change for:
Property address/legal description A parcel of land located in part of the NW $1 / 4$ of the SW $1 / 4$ of Section 18, Town of Verona,

Please check all that apply:

## $\square$ comprehensive plan amendment <br> © rezone petition

current zoning category
AT-35
new zoning category requested See Exhibits (Lots 1-4: SFR-1) (Lots 5-13: SFR-2) (Outlot 1: NR-C)
conditional use permit
conditional use requested

- certified survey map
$\square$ preliminary plat
- final certified survey map

区 concept plan

- site plan
- request for Town road access

| Property Owner: ${ }^{\text {TWIN ROCK LLC (BRET SAALSAA) }}$ | Phone\#_ 608-576-6136 |
| :---: | :---: |
| Address: 7935 ALMOR DR, VERONA | E-Mail BRETSAALSAA@AOL.COM |

Applicant, if different from the property owner:
Applicant's Phone\#
E-Mail

If the applicant is different from property owner, please sign below to allow the agent to act on behalf of property owner.
I hereby authorize
to act as my agent in the application process for the above indicated land use change.

Sianature
Date
Description of Land Use Change requested: (use reverse side if additional space is needed) WE ARE REQUESTING A REZONE AND 1 LOT CSM TO SEPARATE AND SELL OFF THE EXITING HOUSE AND FARM BUILDINGS.


## RETURN COMPLETED APPLICATION OF MAP/PLAN AND ANY OTHER INFORMATION VIA EMAIL TO:

Sarah Gaskell, Planner/Administrator, Town of Verona
7669 County Highway PD, Verona, WI 53593-1035
sgaskell@town.verona.wi.us
A pre-application meeting or initial review may be scheduled with Town Staff and/or Plan Commission Chair if you have questions or concerns. Please call 608-845-7187 with questions.

# Planning Report 

Town of Verona
April 12, 2021

## Dairy Ridge Heights Proposal

parcel numbers 0608-183-8681-0, 060818381809

Summary: The purpose of the application is approval of the preliminary plat for 13 lots and for approval of the Neighborhood Association Declaration. The concept plan and zoning were approved by the Town Board on 1 Dec. 2020.

Property Owner: Twin Rock LLC, Manager, Bret Saalsaa<br>Verona, WI 53593

Applicant: Adam Carrico
Carrico Engineering

## Location Map <br> Spring Rose Road and Dairy Ridge Road

## Comprehensive Plan Guidance:

The future land use plan calls for the properties in this area to have a density of one house per two to four acres.

## Current and Proposed Zoning:

The zoning change to SFR-01, SFR-02, and NR-C was approved by the Town Board on December $1^{\text {stt }}, 2020$.

## Extra-territorial Review /Boundary Agreement Authority:

The parcel is located in Area C of the Town of Verona/City of Verona boundary agreement, so no further action is required from the City of Verona.

## Surrounding Land Use and Zoning:

The properties to the north are all residential parcels between 3-5 acres. To the East the land is Springdale Township and currently in agricultural use. The land to the west and south is being used for agriculture.

## Site Features:

The site currently has some steep slopes to the south and east. There are mature oak trees along part of Dairy Ridge Road. On the south side of the western edge of the parcel, there is a wooded area. Most of the trees are either pin cherry or boxelder.

## Road Access:

No road will be constructed, and driveways would access either Spring Rose Road or Dairy Ridge Road

## Concept plan review:

The TOV Plan Commission on November $22^{\text {nd }}, 2020$ recommended approval of the Dairy Ridge Heights concept plan and zoning changes, with the following conditions:
a) The stormwater management easement be located between lots 8 and 9 .
b) Single-story residences be limited to a height from ground level to roof peak.
c) Front setbacks be varied between 100, 125 and 150 feet for lots 4 through 13.
d) The front setback be greater for two-stories homes than for single-story homes. Lots would have two different front setbacks shown on the concept plan for lots 4 to 13.
e) The front of the lots be planted with trees to provide for screening and landscaping include trees planted in the back of the lots.
f) Trail be included in the outlot
g) Lot 3 be limited to the construction of a single-story home.
i) Lots 4 through 13 shared access to Dairy Ridge Rd for a total of 5 access points.

Town Board approval on December $1^{\text {st }}, 2020$ the Land Use application 2020-12 for concept plan and rezone from AT-35 to SFR-01, SFR-02, and NR-C with following conditions:
a. Trail in the outlot
b. Lots 4-13 have staggered front yard setbacks
c. Screening approved by the Plan Commission
d. Height for all single-story homes
e. Elevation renderings be provided by the applicant
f. Maintenance agreement created as part of the developer's agreement

## Plan Commission meeting on March 18, 2021:

Discussion and Action: Land Use Application 2021-06 submitted by submitted by Twin Rock LLC for Preliminary Plat Approval and for approval of Neighborhood Association Declaration for property near 2528 Spring Rose Road (062/0608-183-8681-0 and 0608-183-31809)
a. Discussion items included the following:

- Preliminary Plat - utility easement locations; outlot access; shared driveway locations; stormwater facility location and size; placement of the trail in the outlot;
- Site Rendering - setback placement, width and height of model homes used in rendering; lots on Spring Rose not included; back view should show three stories; roof pitch;
- Stormwater Facility: size of pond; capacity of pond; pond construction; depth of pond; fish stocking; off-site flows; desire to see what final stormwater facility will look like
- Driveway access - shared access preferred between lots and not across lots; mailbox placement.
- Landscape - screening in front and back of lots; points evaluation; mix of evergreens and deciduous trees.
- Declaration of Covenants - height restrictions; signage restrictions; landscape; declarant control; definition of noxious weeds; maintenance; architectural committee submissions; Lot 3 height restriction; fencing abutting ag uses; pet restrictions; brush and leaf piles; leasing/renting building restrictions; maintenance of existing tress on site; taxation of outlots; Item tabled in order to allow for incorporation of comments


## Materials submitted for Plan Commission Review August 19 ${ }^{\text {th }}$ 2021:

1) Transmittal Letter
2) Preliminary Plat - No. 1
3) 3-D Renderings of homes - no. 2
4) Improvement Plans - driveways- no. 3
5) Easement and Trail Exhibit- no. 4
6) Stormwater draft - no. 5
7) Draft Declaration of Covenants - no. 6 (dated 2021 - 08-12)
8) Preferred Tree List - no. 7








## DAIRY RIDGE HEIGHTS IMPROVEMENTPLANS

## TOWN OF VERONA DANE COUNTY, WISC ONSIN



| INDEX |  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: |
| SHEETNO. |  |  |  | STATIONS | DESCRIPTION |
| 1 |  |  |  |  |  |



## GENERAL NOTES

## AGENCIES:

town of Verona 7669 COUNTY HIG HWAY PD VERONA, W1 53593
$(608)-845-7187$

DANE COUNTY LAND \& WATER RESOURCES RESOURCES
5201 FEN OAKDR
MADISON WI 53718 MADISON, WI 5371
$608)-224-3730$
EMERG ENCY - FIRE, RESCU AMBULANC
VERONA FIRE DEPARTMENT 101 UNCOLN ST VERNA WI 5359
,
DANE COUNTT SHERIFF
MAD W DOTY ST
MADISON, WI 53703
$(608)-266-4948$
unumes:
ELECTRIC COMPANY AWANTENERGY KRYSTAL WOODEN
608)-842-1741
vaturalga
MADISON GAS $\&$ ELECTRIC
STEVE BEVERSDO
(608)-252-1552
TELEPHONEIINTERNET
TDSTELECOM
J ERRY MYERS

## OWN

TWIN ROCK, LC
ENGINEER:
CARRICO ENGINEERING AND
CONSULTNG, INC
1926 N KO $A$ ATH RD
1926N KOLATHRD
VERONA, WI 53593
VERONA, WI
( 6083 )-832-6352
SURVEYOR:
WILAM
ASSO CIITES, LUC.
104A WESTMAIN ST
WAUNAKEE, WI 53597 (608)-255-5705

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4. CONTRACTOR SHALL BE RESPO NSILLE FOR COORDINATING THE RELOCATION OR GRADING AROUND ANY EXISING UIIUTY U
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AL SAWCUTING SHAL BE FUULDEPTH TO PROVIDEA CLEAN
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CONSTRUC TON.
10. AL PRO POSED STORM SEWER LENG THS ON PLANSINCLUDE ENDWALIN LENG TH WHERE ENDWALISCALED OUT

LEGENDS





[^1]3. Install sediment control practices (tracking pad, permeter slt fence, sedment basins, etc.) prior to intiating other land distubang construction actutites.



7. Channeluzed runore: from adacent areas passing through the site shall be diverted around disturbed areas if possible.


9. MMMEDATEY $\operatorname{OR}$ LONGER.

votes:
THE GEotextil Fabric shall beflaced in the excavaited rench, backruled and compacteoto the exsting ground surface

3. WOOD PoST SHALL BE A MNMUM OF $1-1 / 8^{8} \times 1$ 1-1/8" OAK OR HCKORY AND 4 EEE LONG.




1
6
SOT TO SCALE


11. washed stone weeprrs or temporary earth berns shall be bult per plan by contractor to trap sedment or slow the velocity of storm water.
12. SEE detall shets and graing and erosion control plan for rip-rap sizing. in no case wLl rip-rap be smaller than $3^{" \prime}$ to 6". $^{\prime \prime}$.
13. use detention basins as sedment basins during construction (do not use inflitration areas). at the eno of constructon, remove sedment and restore per 14. Restoration (seed, fertiliz and mulch) shall be per specifications on this sheet unless special restoration is called for on the detention basin detall




19. Sediment shall be cleaned from ditches if accumulated after each rannall and prior to prouect acceptance.
20. Accumulated constructon seoment shall be removed from all permanent basins to the elevaton shown on the graing plan followng the stablizaton of 21. all constructoon entrances shall have temporary road closed signs that wll be in place when the entrance is not in use and at the end of each day. 22. AnY proposed changes to the erosion control plan must be submited and approved by dane county water resources engineering or permitting municipalty, 23. THE Town of verona, dane countr, ouner and/or engineer may require adoitional erosion control measures at any time during construction

SEEDING RATES:



 FERTILIZING RATES:

## 

## UULCHING RATES:

TEMPORARY AND PERYANENT:


24. no graing shall be allowed wthin feet of a properit line unless authorize by permiting authority.

## CONSTRUCTION SEQUENCE:


4. SEED \& Mat basin per plan

| Remave tracking pad a slt fence after disturbed areas are |
| :---: |
| Stabilizel |

## CONSTRUCTION SCHEDULE:

. install slt fence and tracking pad $-5 / 5 / 202$
2. STRP TOPSOLL $-5 / 5 / 2022$
3. ROUGH GRaING $-5 / 5 / 2022$
4. Seed \& mat basin per plan - $6 / 25 / 2022$
5. REMOVE TRACKING PAD \& SILT FENCE AFTER DISTURBED AREAS ARE

## pLAN VIEW

## Notes

. Thetrackng pad salal be instued prorto any constuction traffic leaving thesit


trackng pad ghal be flareo prp pan


$\qquad$
(2) STONE TRACKING PAD DETAIL

6 NOT TO SCALE


notes:
WET BASIN DETAIL
NOT TO SCALE


## STORMWATER REPORT <br> DAIRY RIDGE HEIG HTS <br> Town of Verona, Wisc onsin

Prepared For:
Twin Rock, LLC
Bret Sa alsaa
7935 Almor Drive
Verona, WI 53593
Prepared By:
Camico Engineering and Consulting, Inc.
1926 N Kollath Rd
Verona, WI 53593

Prepared On:
August 11, 2021
Revised On:


Project \# 200018
© 2021 Camico Engineering and Consulting, Inc.

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## Section 1 - Narrative

### 1.1 Introduction

Da iry Ridge Heights is located in the Town of Verona southeast of the intersection of Dairy Ridge Road and Springrose Road. The development is comprised of an existing parcel of undeveloped land of approximately 43.37 acres in total area (excluding right-of-way) with a mix of row cropsand wooded area. Forstomwater management design purposes, the project area is 33.894 acres. This area is defined by the entire area of each lot (Lots 1-13) to a ccount for an assumed a mount of new impervious surfaces and the area of the outlot that is being disturbed with the proposed stormwater basin including the un-disturbed conveyance area from the single-family lots to the basin through the outlot.

The lot containing the farmhouse and accessory build ings(known as Lot 1 of CSM 15601) is not part of the plat. However, a portion of the lot drains through the plat. Additionally, the south half of Da iry Ridge Road and right-of-way adjacent to the plat also flows overland through the plat. Finally, a small tract of wooded a rea within the outlot flows overla nd through the plat to the basin. All of these a reas were included for sizing the basin, but loading was removed and not included as part of the overall project area of 33.894 acresas the area is not being disturbed or not part of the plat area.

Currently, about 25 acres of the entire parcel are being farmed with row crops. The rema inder of the area is either made up of wooded area or open space with scattered mixed spec ies of trees.

The proposed development would divide the parcel into 13 single-family residential homesites ranging in size from 1.5 -acres to 2.2 -acres, dedic ating the area of Springrose Road and Da iry Ridge Road to the public for right-of-way a nd one la rge privately owned outlot forstormwater management purposes, walking trails a nd prairie.

The development property shows a small unnamed intermittent river or stream on the WDNR surface waterdata view map along with Dane County Access Dane Maps. Additionally, the maps indic ate a converging intermittent river orstream to the west of the subject property. Furthemore, the maps indic ate several USDA NRCS wetland wet spots based on GIS hydric soil mapping. A navigability a nd wetland determination was conducted by Hans Hilbert, the Dane County Assistant Zoning Administrator and Shoreland Specialist on both the intermittent streams and wetla nd wet spots on July 2, 2020. Mr. Hilbert determined that the entirety of both waterways lack any evidence of a defined bed or bank and any water flow through the entire course would be described as sheet flow and no presence of water. Therefore, the parcel is not subject to any shoreland zoning orfurther permitting and disturbance within these a reas is permissible. In addition, it wasdetermined that there is no evidence of wetland characteristics of a ny kind on the property and therefore a wetla nd delineation is not required.

Mr. Hilbert included an official letter describing the review and site visit and his determination which is included as Exhibit 9.1 in this document.

A 30-foot-wide private access easement is planned between Lots 9 and 10 forfuture maintenance of the stomwater basin. The outlot will not be open to the public; rather only utilized forstormwater management puposes and hiking trails for the owners within the subdivision.

## General Stormwater Management Design

Stormwater modeling is based on the pre-developed site and post-developed site as shown in the exhibits located in Section 9 of this report. There is a small gravel field access road that is included aspart of the existing site. All proposed features are based on assumptions made for a perlot new impervious surface area as defined in the recorded neighborhood covenants. No new public roads are planned forthis development as all lots c urrently front existing town roads. Impervious surface tota ls for each lot are assumed and indicated in the recorded neighborhood covenants as maximums without additional contact with Dane County Land and Water Resources Department.

Assumptions for new impervious surfaces per lot are as follows: 6,000 sq. ft. for singlefamily roof a rea, 600 sq . ft. for a c cessory build ing roof a rea, 3,000 sq. ft. for sidewalk/patio/deck area and 3,500 sq. ft. fordriveway area. Total assumed impervious area per lot fordesign purposes is $13,100 \mathrm{sq}$. ft . The remainder of each residential lot area has been modeled as grassla nd. Roof areas have been modeled as "disc onnected" or "draining to a pervious area" rather than "directly connected" due to the depth of the lots and the fact that the roof runoff will sheet flow overland through pervious areasfor distance of 100 to $200+$ feet before channelized conveyance to the proposed stormwater basin occurs. Furthemore, the roof a reas were modeled as clayey soil type with moderate compaction.

The following table is a breakdown of impervious and pervious surface totals forthe entire project area. A breakdown of surface types by individual drainage a reas is a va ilable in the Peak Storm Control Calculations- Post-developed Conditions w/controls part of the report in Section 4.

Table 1: Surface Totals for Project Area

|  | Square Feet | Acres |
| :--- | :---: | :---: |
| House Roof | 78,000 | 1.791 |
| Shed Roof | 7,800 | 0.179 |
| Driveway | 45,500 | 1.045 |
| Sidewalk/Patio | 39,000 | 0.895 |
| Water Surface | 76,783 | 1.763 |
| Grass Cover | $1,164,317$ | 26.729 |
| Woodland | 65,004 | 1.492 |
| Totals: | $\mathbf{1 , 4 7 6 , 4 0 4}$ | $\mathbf{3 3 . 8 9 4}$ |

The site meets the definition of new development as defined in Chapter 14 of the Dane County Ordinances. The site is required to meet performance standardsfor. erosion control, total suspended solids removal, infiltration, peak flow discharge and thermal control.

Due to the project being in the SugarRiver Watershed, the area is designated as being in a thermally sensitive area. The site is long distance from a ny na vigable waterwa y or
mapped wetla nd; therefore, a wet basin is proposed forthe site. However, practices will be in place to meet themal control fordischarge with niprap outlet structures and the fact that the runoff from the wet basin will travel a signific ant distance within pervious a reas the watershed prior to reaching any environmentally sensitive area.

The goals for total suspended solids removal and peak discharge will be met with the construction of the wet basin. Infiltration requirements will be met through overall density, with the majority of the site being restored to grass or natural praine a rea from straight row crops. Thermal control will be met with the addition of niprap at the basin outlet.

### 1.2 Soils Description

Subsurface soils are predominantly made up of silt loam. The highest percentage soils are Basco silt loam, Port Byron silt loam and Troxel silt loam which makesup approximately $63 \%$ of the soils of the parcel. There is a mix of hydrological soil rating between B, C and D. Thirty-nine percent (39\%) of the site has a hydrologic soil rating of $B$, fourteen percent (14\%) of the site has a hydrologic soil rating of $C$ and forty-eight percent of the site has a hydrologic soil rating of D. For purposes of this project, type C soils were used for modeling as the weighted average of hydrologic soil type is a C. Additiona lly, with hydrological soil group rating of C, clayey soil typeswere chosen within the WinSLAMM program. For peak rate control, areas were not lowered by a permea bility class as deep tilling is proposed for the disturbed areas. Additionally, drainage areasthat are conveyed to pervious areas were modeled asclayey with a low build ing density and nomal compaction rather than moderately compacted. With no road construction taking place and larger lots, there will be minimal or normal compaction of the existing soils during construction of a home.

A total of 6 soil test pits were conducted on December 17, 2020 by a certified soil tester. The soil evaluation report is located in Section 3.2 of this report.

### 1.3 Design Criteria

For the purpose of this report, pre-developed conditions refer to the site conditions before the proposed development. The Stomwater goals the site will be required to meet are summa rized below:

Table 2 - Stormwater Management Requirements

| Stomwater Management Requirements |  |
| :--- | :--- |
| Requirement | Goal |
| Peak Runoff Rate Control | Pre-Developed to Post-Developed <br> $1,2,10$, and 100-year, 24-hour events |
| Sediment Control: TSS | $80 \%$ TSS Removal |
| Infiltration | Infiltrate 90\%of Pre-Developed Infiltration Volume |
| Themal | Reduce temperature of runoff using Best Management <br> Practices |

Table 3 - Design Inputs

| Design Inputs |  |
| :--- | :--- |
|  | Peak Runoff Rate Control <br> (Town of Verona) <br> (Dane County) |
| Rainfall (24-hour design storm) <br> MSE4 Distribution | 1 -year $=2.49$ inches <br> 2 -year $=2.84$ inches <br> $10-y e a r ~=4.09 ~ i n c h e s ~$ |
| 100 -year $=6.66$ inches |  |$|$| Woodland $=70$ |
| :--- |
| Grassland $=71$ |
| Cropland $=78$ |

### 1.4 Summary of Results

Peak Rate Control (See Section 4 for design calculations)
The Town and the County require new development sites to design Stormwater management practices to mainta in post-development peak runoff discharge rates for the $1,2,10$, and 100-year, 24 -hour design storms, so as not to exceed those ratesfor each respective design stom under pre-developed conditions. Peak runoff control will be handled onsite with construction of the proposed wet basin. Table 4 illustrates the overall pre-developed, post-developed without controls, post-developed with controls and post-developed with controls and offsite drainage peak rates for the project. The offsite areas/non-project areas were modeled for sizing. The calculations were performed with HydroCAD a nd are located in Section 4 of this report.

Table 4 - Peak Runoff Control

| Stom Event <br> (year) | Pre-Developed <br> (cfs) | Post-Developed <br> w/o controls <br> (cfs) | Post-Developed <br> w/ controls <br> (cfs) | Post-Developed <br>  <br> Offsite <br> (cfs) |
| :---: | :---: | :---: | :---: | :---: |
| 1 | 16.83 | 20.87 | 3.55 | 3.56 |
| 2 | 23.01 | 27.85 | 4.76 | 4.78 |
| 10 | 47.89 | 55.47 | 9.60 | 10.64 |
| 100 | 105.80 | 118.13 | 47.83 | 68.66 |

Table 5 summarizes the routing through the wet basin. The offsite a reas that drain through the site were included for these calculations to indicate the basin is capable of handling the stormwater runoff through the $100-\mathrm{yr}$, 24 -hr storm event. Runoff does not overtop the spillway until at least the 10-yr, $24-\mathrm{hr}$ storm event. The spillwa y elevation is 979.50. The top of berm elevation is 981.0. The outlet pipe invert elevation is978.0.

Table 5 - Wet Basin Routing

| Stom <br> Frequency <br> (Year) | Post <br> Developed <br> Inflow <br> (CFS) | Routed Through Basin | Discharge <br> Pimany Outlet <br> Pipe (CFS) | Discharge <br> Secondary <br> Overflow (CFS) | Elevation <br> (Feet) |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | 21.82 | 0.32 | 0.00 | 979.10 | Volume <br> (CF) |
| 2 | 29.25 | 0.37 | 0.00 | 979.44 | 116,591 |
| 10 | 58.95 | 0.43 | 9.16 | 979.82 | 148,904 |
| 100 | 126.84 | 0.52 | 63.40 | 980.67 | 226,854 |

## Sediment Control

The site is required to reduce by $80 \%$, the total suspended solidsload based on the a verage a nnual rainfall record. The wet basin was modeled with WinSLAMM 10.4.1. The wet basin effic iency is $88.56 \%$ sediment reduction. Table 6 illustrates the effic iency of sediment reduction for the basin. See Section 5 for total suspended solids removal calculations and exhibits for the wet basin.

Table 6 - Total Suspended Solids Reduction Summary - Wet Basin

| BMP | No Controls | After Stormwater Controls | \% Reduction |
| :---: | :---: | :---: | :---: |
| Wet Basin | $5,981 \mathrm{lbs}$. | 684.1 lbs. | $88.56 \%$ |

## Infiltration

The site is required to infiltrate $90 \%$ of the pre-developed infiltration volume based on the a verage annual rainfall. The site infiltrates the post-developed runoff volume at a rate equivalent to $92.30 \%$ of the pre-developed infiltration volume. The calculations were completed with WinSLAMM 10.4.1 and are located in Section 6 of this report. Infiltration performance is achieved by density of development within the project area by retuming straight, row crop fieldsto grassed area ornative greenspace. Table 6 illustrates the WinSLAMM output for infiltration.

Table 6 - Infiltration Volume

| Annual Pre-developed <br> Total Loss (in/ Yr) | Post-Developed <br> Total Loss(in/ Yr) | \% Annual Total Loss |
| :---: | :---: | :---: |
| 26.25 | 24.23 | 92.30 |

## Erosion Control (See Section 7)

The site meets the County's erosion control requirements with use of a stone tracking pad, perimeter silt fencing and slope and channel erosion a pplic ations perthe plan. Site work is antic ipated to begin in the spring of 2022 and be restored by summer of 2022. The USLE worksheets can be found in Section 7 of this report.

## Thermal Control

The site is located within a themally sensitive a rea, based being in the Sugar River watershed. The outlet structure including overflow weir and outlet pipe of the wet basin will be stabilized with large 6 " diameter angular rip rap to ensure that runoff leaving the basin will pass over the stones to cool. Additionally, the basin is loc ated a signific ant dista nce from any environmenta lly sensitive area where runoff will be conveyed through pervious areas and likely infiltrated prior to reaching any environmentally sensitive areas.

### 1.5 Conclusions

This Da iry Ridge Heights Stormwater Mana gement Plan will meet the Town and the County's new development performance standard requirements for erosion control, peak runoff rate control, total suspended solids reduction, infiltration a nd themal control with the construction of the wet basin.

### 1.6 Permits

The following is a list of the antic ipated development permits a ntic ipa ted:
$\checkmark$ Dane County - Erosion Control/Land Disturbing Permit Application
$\checkmark$ Dane County - Storm Water Runoff Control Permit Applic ation
$\checkmark$ Wisc onsin Department of Natural Resources Notice of Intent

Section 2: Maps






## Legend

Parcel Layers
Tex Parcels


## Water Resources

Thermally Sensitive Areas

## Section 3: Soils Information



| Map unit symbol | Map unit name | Rating | Acres in AOI | Percent of AOI |
| :---: | :---: | :---: | :---: | :---: |
| 1180C2 | Newglarus-Dunbarton sit loams, 6 to 12 percent slopes, moderately eroded | c | 2.5 | 6.1\% |
| BaC2 | Basco sill loam. 6 to 12 percent slopes, eroded | D | 10.0 | 24.1\% |
| BaD2 | Basco sill loam, 12 to 20 percent slopes, eroded | D | 1.9 | 4.6\% |
| DpC | Dodgevile silt loam, 8 to 12 percent slopes | C | 0.6 | 1.5\% |
| EmD2 | Elkmound sandy loam, 12 to 20 percent slopes, eroded | D | 23 | 5.6\% |
| EmE2 | Elkmound sandy loam, 20 to 30 percent slopes, eroded | D | 5.6 | 13.4\% |
| NeC 2 | Newglarus silt loarn, moderately deep, 6 to 12 percent slopes. moderately eroded | C | 2.6 | 6.2\% |
| PrC | Port Byron sit lioam, 6 to 12 percent slopes | B | 9.1 | 21.7\% |
| TrB | Trowel sit loam, 0 to 3 percent slopes | B | 7.0 | 16.9\% |
| Totals for Area of Interest |  |  | 41.7 | 100.0\% |

## 3.1 - Soils Map

Project Name: Dairy Ridge Heights Project Location: Town of Verona, Wisconsin

Wis. Dept. of Safety and Professional Services Division of Industry Services

SOIL EVALUATION - STORM
in accordance with SPS 382.365 and 385 , Wis. Adm. Code


Drainage area Optional:
$\qquad$ $\square$ sq. ft. $\square$ acres

Test Site Suitable for (check all that apply)
$\square$ IrrigationBioretention trench
$\square$ Trench(es)
$\square$ Rain gardenGrassed swaleReuseInfiltration trenchSDS (> $15^{\prime}$ wide)Other $\qquad$
Hydraulic Application Test Method:
M Morphological EvaluationDouble-Ring Infiltrometer
$\square$ Other (specify) $\qquad$

TP-30pobs. \# $\quad$ B Boring $\quad$ Ground surface elev. 994.15

| Horizon | Depth | Dominant Color | Redox Description | Texture | Structure | Consistence | Boundary | \% Rock | Inches/Hr |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | In . | Munsell | Qu. Sz. Cont. Color |  | Gr. Sz. Sh. |  |  | Frag. |  |
| A | 0-10 | 10YR3/2 | None | sil | 2fsbk | mvfr | CS | 0 | 0.13 |
| B1 | 10-45 | 10YR4/4 | None | sicl | 2msbk | mfr | gs | 0 | 0.04 |
| B2 | 45-68 | 10YR4/4 | c2d10YR5/8,6/2 | sicl | 1cpr | mfi | cs | 0 | 0.04 |
| R | $68+$ | Sandstone | Bedrock |  |  |  |  |  |  |
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| TP-300 P | s. \# | $\square \begin{aligned} & \text { Boring } \\ & \text { Pil } \end{aligned}$ | nd surface elev. 1002.6 |  | th to limitin | $\qquad$ 11 | _in. |  | Hydrualic App. Rate |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Horlzon | Depth in. | Dominant Color Munsell | Redox Description Qu. Sz. Cont. Color | Texture | $\begin{aligned} & \text { Structure } \\ & \text { Gr. Sz. Sh. } \end{aligned}$ | Consistence | Boundary | \% Rock Frag. | Inches/Hr |
| A | 0-11 | 10YR3/2 | None | sil | 2fsbk | mfr | as | 0 | 0.13 |
| R | 11+ | Sandstone | Bedrock |  |  |  |  |  |  |
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|  |  |  |  |  |  |  |  |  |  |
| CST/PSS Name (Please Print)Paul A. Hardy |  |  |  |  |  |  |  |  |  |
| Address 7226 Timberwood Drive, Madison, WI 53719 |  |  |  |  | Date Evaluation Conducled$12 / 17 / 2020$ |  |  | $\begin{aligned} & \text { Telephone Nurmber } \\ & 608-848-4869 \\ & \hline \end{aligned}$ |  |


| Property Owner$\square$ Obs. \# TP-30ф2 |  | Twin Rock LLC <br> Boring <br> Pit Ground surface999.38 |  | Parcel ID \# <br> f. | Dairy Ridge Heights |  |  |  | $\qquad$ <br> 2 <br> 品 $\qquad$ 4 Hydraulic App. Pale |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | to limitio | $\text { ctor } 62$ |  |  |  |  |
| Horizon | Depth <br> in. |  |  | $\begin{gathered} \text { Dominanl Color } \\ \text { Munsell } \end{gathered}$ | Redox Description Qu. Sz. Cont. Color | Texture | Siructure Gr. Sz. Sh. | Consistence | Boundary | \% Rock <br> Frag. | Inches/Hr |
| A | 0-11 | 10YR3/2 | None | sil | 2fsbk | mvfr | cs | 0 | 0.13 |
| B1 | 11-45 | 10YR4/4 | None | sicl | 2msbk | mfr | gs | 0 | 0.04 |
| IIB2 | 45-62 | 10YR4/6 | None | scl | 1csbk | mfi | cs | 2 | 0.11 |
| R | 62+ | Sandstone | Bedrock |  |  |  |  |  |  |
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TP-30¢5 Jobs. \# $\quad$ Boring Gil Ground surface elev. 979.1
fl.
Deplh to limiling factor

45 $\qquad$ in.


| TP-3004 | \# | Boring <br> Pit Grou | $978.16$ <br> Ground surface elev. $\qquad$ | f. | Depth to litnilling factor $\qquad$ ir. |  |  |  | Hydraulic App. Rate |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Horizon | Depth in. | Dominant Color Munsell | Redox Descriplion Qu. Sz. Cont. Color | Texture | Siructure Gr. Sz. Sh. | Conslstence | Boundary | \% Rock Frag. | Inches/Hr |
| A | 0-12 | 10YR3/2 | None | sil | 2fsbk | mvir | cs | 0 | 0.13 |
| B | 12-44 | 10YR4/4 | None | sicl | 2msbk | mfr | as | 0 | 0.04 |
| R | 44+ | Sandstone | Bedrock |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
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Test Results and/or Summary Comments

| Froperty Owner Twin Rock LLC |  |  |  | Parcel 10 \# _ Dairy Ridge Heights |  |  |  |  | $\qquad$ or $\qquad$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\text { TP-30g } 5{ }^{\text {Obs. \# }}$ |  | Boring <br> Pil Ground surface $97 \mathrm{Ev}^{5.6}$ |  |  | Depth to limiling factor $\mathbf{5 0}$ |  |  |  |  |
| Horizon | $\begin{gathered} \text { Depth } \\ \text { in. } \end{gathered}$ | Dominant Color Munsell | Redox Descriplion Qu. Sz. Conl. Color | Texture | Structure Gr. Sz. Sh. | Consistence | Boundary | \% Rock Frag. | $\frac{\text { ydraulic App. Rate }}{\text { Inches/Hr }}$ |
| A | 0-27 | 10YR2/2 | None | sil | 2fsbk | mvfr | gs | 0 | 0.13 |
| B1 | 27-50 | 10YR4/4 | None | sicl | 2msbk | mfr | gs : | 0 | 0.04 |
| B2 | 50-112 | 10YR4/3 | m2p10YR5/8,6/2 | sicl | Om | mfi |  | 0 | 0.04 |
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Obs.\# $\square$ Boring

| Horlzon | Depth <br> in. | Dominant Color <br> Munsell | Redox Descriplion <br> Qu. Sz. Cont. Colar | Texture | Structure <br> Gr. Sz. Sh. | Consistence | Boundary | \% Rock <br> Frag. | Hydraulic App. Rate |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
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| Obs. \# |  | Ground surface elev. ___ f. |  | Depth to limilling factor___ in. |  |  |  |  | R |
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| Horizon | $\begin{gathered} \text { Depth } \\ \text { in. } \end{gathered}$ | Dominant Color Munsell | Redox Description Qu. Sz. Conl. Color | Texture | Structure $\mathrm{Gr} . \mathrm{Sz} . \mathrm{Sh} .$ | Consistence | Boundary | \% Rock Frag. | Inches//Hr |
|  |  |  |  |  |  |  |  |  |  |
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Test Results and/or Summary Comments


## Section 4: Peak Stom Control Calculations

### 4.1 Peak Flow Pre-Developed Calculations



## Pre-Developed



## 2021-08-11 Pre-Dev DRH

Prepared by Carrico Engineering
Printed 8/11/2021
HydroCAD® 10.10-6a s/n M22414 © 2020 HydroCAD Software Solutions LLC

## Area Listing (all nodes)

| Area <br> (acres) | CN | Description <br> (subcatchment-numbers) |
| ---: | :--- | :--- |
| 0.070 | 98 | Driveway, HSG C (E-1) |
| 9.514 | 71 | Pasture/grassland/range, Good, HSG C (E-1) |
| 22.504 | 78 | Row crops, straight row, Good, HSG C (E-1) |
| 1.806 | 70 | Woods, Good, HSG C (E-1) |
| $\mathbf{3 3 . 8 9 4}$ | $\mathbf{7 6}$ | TOTAL AREA |

Time span= $0.00-30.00 \mathrm{hrs}, \mathrm{dt}=0.01 \mathrm{hrs}, 3001$ points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

## Subcatchment E-1: E-1

Reach Pre-Dev: Pre-Developed

Runoff Area $=33.894$ ac $0.21 \%$ Impervious Runoff Depth $=0.69$ " Flow Length=1,172' Tc=30.9 min CN=76 Runoff=16.83 cfs 1.945 af

Inflow=16.83 cfs 1.945 af Outflow=16.83 cfs 1.945 af

Total Runoff Area 33.894 ac Runoff Volume 1.945 af Average Runoff Depth 0.69 99.79 Pervious 33.824 ac 0.21 Impervious 0.070 ac

## Summary for Subcatchment E-1: E-1



Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.01 hrs MSE 24-hr 4 1-Year Rainfall=2.49"


## Summary for Reach Pre-Dev: Pre-Developed

| Inflow Area | $=$ | 33.894 ac, | $0.21 \%$ | Impervious, | Inflow Depth $=$ |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Inflow | $=$ | $16.83 \mathrm{cfs} @$ | 12.47 hrs, Volume $=$ | 1.945 af | for $1-$ Year event |
| Outflow | $=$ | $16.83 \mathrm{cfs} @$ | 12.47 hrs, Volume $=$ | 1.945 af, Atten $=0 \%$, Lag $=0.0 \mathrm{~min}$ |  |

Routing by Dyn-Stor-Ind method, Time Span= $0.00-30.00 \mathrm{hrs}$, dt= 0.01 hrs

Time span= $0.00-30.00 \mathrm{hrs}, \mathrm{dt}=0.01 \mathrm{hrs}, 3001$ points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

## Subcatchment E-1: E-1

Reach Pre-Dev: Pre-Developed

Runoff Area=33.894 ac $0.21 \%$ Impervious Runoff Depth= 0.91 " Flow Length=1,172' Tc=30.9 min CN=76 Runoff=23.01 cfs 2.567 af

Inflow=23.01 cfs 2.567 af Outflow=23.01 cfs 2.567 af

Total Runoff Area 33.894 ac Runoff Volume 2.567 af Average Runoff Depth 0.91 99.79 Pervious 33.824 ac 0.21 Impervious 0.070 ac

Time span= $0.00-30.00 \mathrm{hrs}, \mathrm{dt}=0.01 \mathrm{hrs}, 3001$ points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

## Subcatchment E-1: E-1

Reach Pre-Dev: Pre-Developed

Runoff Area=33.894 ac $0.21 \%$ Impervious Runoff Depth=1.81" Flow Length=1,172' Tc=30.9 min CN=76 Runoff=47.89 cfs 5.106 af

Inflow=47.89 cfs 5.106 af Outflow=47.89 cfs 5.106 af

Total Runoff Area 33.894 ac Runoff Volume 5.106 af Average Runoff Depth 1.81 99.79 Pervious 33.824 ac 0.21 Impervious 0.070 ac

Time span= $0.00-30.00 \mathrm{hrs}, \mathrm{dt}=0.01 \mathrm{hrs}, 3001$ points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment E-1: E-1

Reach Pre-Dev: Pre-Developed

Runoff Area $=33.894$ ac $0.21 \%$ Impervious Runoff Depth=3.96" Flow Length $=1,172^{\prime} \quad \mathrm{Tc}=30.9 \mathrm{~min} \mathrm{CN}=76$ Runoff=105.80 cfs 11.174 af

Inflow=105.80 cfs 11.174 af Outflow $=105.80$ cfs 11.174 af

Total Runoff Area 33.894 ac Runoff Volume 11.174 af Average Runoff Depth 3.96 99.79 Pervious 33.824 ac 0.21 Impervious 0.070 ac

### 4.2 Peak Flow Post-Developed w/o Controls Calculations



## Post-Developed No <br> Controls



## 2021-08-11 Post-Dev DRH - No Controls

Prepared by Carrico Engineering
Printed 8/11/2021
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Page 2

## Area Listing (all nodes)

| Area <br> (acres) | CN | Description <br> (subcatchment-numbers) |
| ---: | :--- | :--- |
| 26.730 | 74 | >75\% Grass cover, Good, HSG C (P-1, P-2, P-3, P-4) |
| 1.043 | 98 | Driveways, HSG C (P-1, P-2, P-3) |
| 1.970 | 98 | Roofs, HSG C (P-1, P-2, P-3) |
| 0.895 | 98 | Sidewalks, HSG C (P-1, P-2, P-3) |
| 1.763 | 98 | Water Surface, HSG C (P-1) |
| 1.493 | 70 | Woods, Good, HSG C (P-1, P-2) |
| $\mathbf{3 3 . 8 9 4}$ | $\mathbf{7 8}$ | TOTAL AREA |

## 2021-08-11 Post-Dev DRH - No Controls

Prepared by Carrico Engineering
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Time span=0.00-30.00 hrs, dt=0.01 hrs, 3001 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method


## 2021-08-11 Post-Dev DRH - No Controls

## Summary for Subcatchment P-1: P-1

Runoff $=\quad 18.35$ cfs @ 12.41 hrs, Volume $=\quad 1.897$ af, Depth= $=0.78 "$
Routed to Reach Post-Dev : Post-Developed No Controls

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.01 hrs MSE 24-hr 4 1-Year Rainfall=2.49"

| Area (ac) | CN | Description |  |
| ---: | ---: | :--- | :--- |
| * | 1.591 | 98 | Roofs, HSG C |
| * | 0.884 | 98 | Driveways, HSG C |
| 0.723 | 98 | Sidewalks, HSG C |  |
| 1.763 | 98 | Water Surface, HSG C |  |
| 23.034 | 74 | >75\% Grass cover, Good, HSG C |  |
| 1.140 | 70 | Woods, Good, HSG C |  |

## Summary for Subcatchment P-2: P-2

Runoff = 1.77 cfs @ 12.28 hrs, Volume $=0.148$ af, Depth= $0.78{ }^{\prime \prime}$

Routed to Reach Post-Dev : Post-Developed No Controls
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.01 hrs MSE 24-hr 4 1-Year Rainfall=2.49"

|  | Area (ac) | CN | Description |
| :--- | ---: | :--- | :--- |
|  | 0.227 | 98 | Roofs, HSG C |
| $*$ | 0.119 | 98 | Driveways, HSG C |
| $*$ | 0.103 | 98 | Sidewalks, HSG C |
| 1.470 | 74 | $>75 \%$ Grass cover, Good, HSG C |  |
| 0.353 | 70 | Woods, Good, HSG C |  |
| 2.272 | 78 | Weighted Average |  |
| 1.823 |  | 80.24\% Pervious Area |  |
| 0.449 |  | 19.76\% Impervious Area |  |



## Summary for Subcatchment P-3: P-3

Runoff = 1.43 cfs @ 12.22 hrs , Volume $=0.101 \mathrm{af}$, Depth= $0.78{ }^{\prime \prime}$

Routed to Reach Post-Dev : Post-Developed No Controls
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.01 hrs MSE 24-hr 4 1-Year Rainfall=2.49"


## Summary for Subcatchment P-4: P-4

Runoff $=0.85$ cfs @ 12.14 hrs , Volume= $\quad 0.047$ af, Depth $=0.60{ }^{\prime \prime}$
Routed to Reach Post-Dev : Post-Developed No Controls
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.01 hrs MSE 24-hr 4 1-Year Rainfall=2.49"

| Area $(\mathrm{ac})$ | CN | Description |
| ---: | ---: | :--- |
| 0.929 | 74 | $>75 \%$ Grass cover, Good, HSG C |
| 0.929 |  | $100.00 \%$ Pervious Area |


| Tc |  |  |  |  |
| ---: | ---: | ---: | ---: | ---: |
| $(\mathrm{min})$ | Length <br> $(\mathrm{feet})$ | Slope <br> $(\mathrm{ft} / \mathrm{ft})$ | Velocity <br> $(\mathrm{ft} / \mathrm{sec})$ | Capacity <br> $(\mathrm{cfs})$ |

## 2021-08-11 Post-Dev DRH - No Controls

Prepared by Carrico Engineering
HydroCAD® 10.10-6a s/n M22414 © 2020 HydroCAD Software Solutions LLC

## Summary for Reach Post-Dev: Post-Developed No Controls

Inflow Area $=33.894$ ac, $16.73 \%$ Impervious, Inflow Depth $=0.78$ " for 1 -Year event Inflow $=20.87$ cfs @ 12.38 hrs , Volume= 2.193 af Outflow = 20.87 cfs @ 12.38 hrs , Volume $=\quad 2.193 \mathrm{af}$, Atten $=0 \%$, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-30.00 hrs, dt= 0.01 hrs

## 2021-08-11 Post-Dev DRH - No Controls

Prepared by Carrico Engineering
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Time span=0.00-30.00 hrs, dt=0.01 hrs, 3001 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method


## 2021-08-11 Post-Dev DRH - No Controls

Prepared by Carrico Engineering
HydroCAD® 10.10-6a s/n M22414 © 2020 HydroCAD Software Solutions LLC
Time span=0.00-30.00 hrs, dt=0.01 hrs, 3001 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method


Time span= $0.00-30.00 \mathrm{hrs}, \mathrm{dt}=0.01 \mathrm{hrs}, 3001$ points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method


### 4.3 Peak Flow Post-Developed with Controls Calculations



Routing Diagram for 2021-08-11 Post-Dev DRH

## Area Listing (all nodes)

| Area <br> (acres) | CN | Description <br> (subcatchment-numbers) |
| ---: | :--- | :--- |
| 26.730 | 74 | >75\% Grass cover, Good, HSG C (P-1, P-2, P-3, P-4) |
| 1.043 | 98 | Driveways, HSG C (P-1, P-2, P-3) |
| 1.970 | 98 | Roofs, HSG C (P-1, P-2, P-3) |
| 0.895 | 98 | Sidewalks, HSG C (P-1, P-2, P-3) |
| 1.763 | 98 | Water Surface, HSG C (P-1) |
| 1.493 | 70 | Woods, Good, HSG C (P-1, P-2) |
| $\mathbf{3 3 . 8 9 4}$ | $\mathbf{7 8}$ | TOTAL AREA |

Time span $=0.00-30.00 \mathrm{hrs}, \mathrm{dt}=0.01 \mathrm{hrs}, 3001$ points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

## Subcatchment P-1: P-1

Subcatchment P-2: P-2

Subcatchment P-3: P-3
Flow Length=300'
Runoff Area=2.272 ac $19.76 \%$ Impervious Runoff Depth=$=0.78$ " Slope=0.0460 '/' Tc=17.9 min CN=78 Runoff=1.77 cfs 0.148 af

Runoff Area $=1.558$ ac $16.75 \%$ Impervious Runoff Depth=$=0.78$ " Flow Length=300' Slope=0.1050 '/' Tc=12.9 min CN=78 Runoff=1.43 cfs 0.101 af

Subcatchment P-4: P-4

Reach Post-Dev: Post-Developed W/Controls

Pond Pond: Detention Pond
Peak Elev=978.90' Storage=71,466 cf Inflow=18.35 cfs 1.897 af Primary $=0.28$ cfs 0.389 af Secondary $=0.00$ cfs 0.000 af Oufflow= 0.28 cfs 0.389 af

Total Runoff Area 33.894 ac Runoff Volume 2.193 af Average Runoff Depth 0.78
83.27 Pervious 28.223 ac 16.73 Impervious 5.671 ac

## Summary for Subcatchment P-1: P-1

Runoff = 18.35 cfs @ 12.41 hrs, Volume $=1.897$ af, Depth= $0.78{ }^{\prime \prime}$ Routed to Pond Pond : Detention Pond

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.01 hrs MSE 24-hr 4 1-Year Rainfall=2.49"

| Area (ac) | CN | Description |  |
| ---: | ---: | :--- | :--- |
| * | 1.591 | 98 | Roofs, HSG C |
| * | 0.884 | 98 | Driveways, HSG C |
| 0.723 | 98 | Sidewalks, HSG C |  |
| 1.763 | 98 | Water Surface, HSG C |  |
| 23.034 | 74 | >75\% Grass cover, Good, HSG C |  |
| 1.140 | 70 | Woods, Good, HSG C |  |

## Summary for Subcatchment P-2: P-2

Runoff = 1.77 cfs @ 12.28 hrs, Volume $=0.148$ af, Depth= $0.78{ }^{\prime \prime}$

Routed to Reach Post-Dev : Post-Developed W/Controls
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.01 hrs MSE 24-hr 4 1-Year Rainfall=2.49"

|  | Area $(\mathrm{ac})$ | CN | Description |
| :--- | ---: | :--- | :--- |
|  | 0.227 | 98 | Roofs, HSG C |
| $*$ | 0.119 | 98 | Driveways, HSG C |
| $*$ | 0.103 | 98 | Sidewalks, HSG C |
| 1.470 | 74 | $>75 \%$ Grass cover, Good, HSG C |  |
| 0.353 | 70 | Woods, Good, HSG C |  |
| 2.272 | 78 | Weighted Average |  |
| 1.823 |  | 80.24\% Pervious Area |  |
| 0.449 |  | 19.76\% Impervious Area |  |



## Summary for Subcatchment P-3: P-3

Runoff = 1.43 cfs @ 12.22 hrs, Volume $=0.101$ af, Depth $=0.78{ }^{\prime \prime}$

Routed to Reach Post-Dev : Post-Developed W/Controls
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.01 hrs MSE 24-hr 4 1-Year Rainfall=2.49"


## Summary for Subcatchment P-4: P-4

Runoff $=0.85$ cfs @ 12.14 hrs , Volume= $\quad 0.047$ af, Depth $=0.60{ }^{\prime \prime}$
Routed to Reach Post-Dev : Post-Developed W/Controls
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.01 hrs MSE 24-hr 4 1-Year Rainfall=2.49"

| Area $(\mathrm{ac})$ | CN | Description |
| ---: | ---: | :--- |
| 0.929 | 74 | $>75 \%$ Grass cover, Good, HSG C |
| 0.929 |  | $100.00 \%$ Pervious Area |


| Tc |  |  |  |  |
| ---: | ---: | ---: | ---: | ---: |
| $(\mathrm{min})$ | Length <br> $(\mathrm{feet})$ | Slope <br> $(\mathrm{ft} / \mathrm{ft})$ | Velocity <br> $(\mathrm{ft} / \mathrm{sec})$ | Capacity <br> $(\mathrm{cfs})$ |

## Summary for Reach Post-Dev: Post-Developed W/Controls



Routing by Dyn-Stor-Ind method, Time Span= 0.00-30.00 hrs, dt= 0.01 hrs

## Summary for Pond Pond: Detention Pond



Routing by Dyn-Stor-Ind method, Time Span= 0.00-30.00 hrs, dt= 0.01 hrs
Peak Elev=978.90' @ 23.39 hrs Surf.Area= 81,856 sf Storage= $=71,466$ cf
Plug-Flow detention time $=555.9 \mathrm{~min}$ calculated for 0.389 af ( $20 \%$ of inflow)
Center-of-Mass det. time $=426.5 \mathrm{~min}(1,290.4-863.9)$


Time span $=0.00-30.00 \mathrm{hrs}, \mathrm{dt}=0.01 \mathrm{hrs}, 3001$ points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

## Subcatchment P-1: P-1

Subcatchment P-2: P-2

Subcatchment P-3: P-3
Flow Length=300'
Runoff Area=2.272 ac $19.76 \%$ Impervious Runoff Depth=1.02" Slope $=0.0460$ '/' Tc=17.9 min CN=78 Runoff=2.36 cfs 0.192 af Flow Length=300'

Subcatchment P-4: P-4

Reach Post-Dev: Post-Developed W/Controls

Pond Pond: Detention Pond
Peak Elev=979.18' Storage=94,195 cf Inflow=24.46 cfs 2.468 af Primary $=0.33$ cfs 0.460 af Secondary $=0.00$ cfs 0.000 af Outflow= 0.33 cfs 0.460 af
83.27 Pervious 28.223 ac 16.73 Impervious 5.671 ac

Time span $=0.00-30.00 \mathrm{hrs}, \mathrm{dt}=0.01 \mathrm{hrs}, 3001$ points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

## Subcatchment P-1: P-1

Subcatchment P-2: P-2

Subcatchment P-3: P-3
Flow Length=300'
Runoff Area=2.272 ac $19.76 \%$ Impervious Runoff Depth=1.96" Slope $=0.0460$ '/' Tc=17.9 min CN=78 Runoff=4.68 cfs 0.371 af

Runoff Area=1.558 ac $16.75 \%$ Impervious Runoff Depth=1.96" Flow Length=300' Slope=0.1050'/' Tc=12.9 min CN=78 Runoff=3.75 cfs 0.254 af

Subcatchment P-4: P-4

Reach Post-Dev: Post-Developed W/Controls

Pond Pond: Detention Pond Primary $=0.41$ cfs 0.571 af Secondary $=3.95$ cfs 1.522 af Outflow= 4.36 cfs 2.093 af

Total Runoff Area 33.894 ac Runoff Volume 5.510 af Average Runoff Depth 1.95
83.27 Pervious 28.223 ac 16.73 Impervious 5.671 ac

Time span $=0.00-30.00 \mathrm{hrs}, \mathrm{dt}=0.01 \mathrm{hrs}, 3001$ points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method


### 4.4 Peak Flow Post-Developed with Controls Calculations (Offsite Drainage Included)



Post-Developed
W/Controls and Offsite


## 2021-08-11 Post-Dev DRH - With Offsite

Prepared by Carrico Engineering

## Area Listing (all nodes)

| Area <br> (acres) | CN | Description <br> (subcatchment-numbers) |
| ---: | :--- | :--- |
| 30.240 | 74 | $>75 \%$ Grass cover, Good, HSG C (OS-1, OS-2, P-1, P-2, P-3, P-4) |
| 1.152 | 98 | Driveways, HSG C (OS-1, P-1, P-2, P-3) |
| 0.663 | 92 | Paved roads w/open ditches, 50\% imp, HSG C (OS-1) |
| 2.134 | 98 | Roofs, HSG C (OS-1, P-1, P-2, P-3) |
| 0.915 | 98 | Sidewalks, HSG C (OS-1, P-1, P-2, P-3) |
| 1.763 | 98 | Water Surface, HSG C (P-1) |
| 4.620 | 70 | Woods, Good, HSG C (OS-2, P-1, P-2) |
| 41.487 | 77 | TOTAL AREA |

Time span $=0.00-30.00 \mathrm{hrs}, \mathrm{dt}=0.01 \mathrm{hrs}, 3001$ points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

## Subcatchment OS-1: OS-1

Subcatchment OS-2: OS-2

## Subcatchment P-1: P-1

Subcatchment P-2: P-2

## Subcatchment P-3: P-3

Subcatchment P-4: P-4

Runoff Area $=3.875$ ac $16.12 \%$ Impervious Runoff Depth $=0.83$ " Flow Length=1,222' Tc=17.7 $\mathrm{min} \quad \mathrm{CN}=79$ Runoff $=3.27 \mathrm{cfs} 0.268$ af

Runoff Area $=3.718$ ac $0.00 \%$ Impervious Runoff Depth $=0.49$ " Flow Length=1,179' Tc=34.5 min CN=71 Runoff=1.09 cfs 0.151 af

Runoff Area=29.135 ac 17.03\% Impervious Runoff Depth=0.78" Flow Length=1,172' Tc=26.7 min CN=78 Runoff=18.35 cfs 1.897 af

Runoff Area=2.272 ac $19.76 \%$ Impervious Runoff Depth= $=0.78$ " Flow Length=300' Slope=0.0460 '/' Tc=17.9 min CN=78 Runoff=1.77 cfs 0.148 af

Runoff Area $=1.558$ ac $16.75 \%$ Impervious Runoff Depth= 0.78 " Flow Length=300' Slope=0.1050 $/ / \mathrm{Tc}=12.9 \mathrm{~min} \quad \mathrm{CN}=78$ Runoff $=1.43 \mathrm{cfs} 0.101$ af

Runoff Area $=0.929$ ac $0.00 \%$ Impervious Runoff Depth $=0.60$ " $\mathrm{Tc}=6.0 \mathrm{~min} \mathrm{CN}=74$ Runoff $=0.85 \mathrm{cfs} 0.047$ af

Reach Post-Dev: Post-Developed W/Controls and Offsite Inflow=3.56 cfs 0.736 af Outflow=3.56 cfs 0.736 af

Pond Pond: Detention Pond
Peak Elev=979.10' Storage=88,173 cf Inflow=21.82 cfs 2.316 af Primary $=0.32$ cfs 0.440 af Secondary $=0.00$ cfs 0.000 af Oufflow= 0.32 cfs 0.440 af

Total Runoff Area 41.487 ac Runoff Volume 2.612 af Average Runoff Depth 0.76 84.83 Pervious 35.191 ac 15.17 Impervious 6.295 ac

## 2021-08-11 Post-Dev DRH - With Offsite

## Summary for Subcatchment OS-1: OS-1

Runoff $=\quad 3.27$ cfs @ 12.29 hrs, Volume $=\quad 0.268 \mathrm{af}$, Depth $=0.83^{\prime \prime}$

Routed to Pond Pond : Detention Pond
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.01 hrs MSE 24-hr 4 1-Year Rainfall=2.49"


## Summary for Subcatchment OS-2: OS-2

Runoff $=\quad 1.09 \mathrm{cfs} @ 12.57 \mathrm{hrs}$, Volume $=$
Routed to Pond Pond : Detention Pond

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.01 hrs MSE 24-hr 4 1-Year Rainfall=2.49"

| Area (ac) CN Description |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 3.127 70 <br> 0.591 74 |  | Woods, Good, HSG C |  |  |  |
|  |  | $4>75 \%$ | Grass c | over, Good | HSG C |
| $\begin{array}{ll}3.718 & 71 \\ 3.718\end{array}$ |  | 1 W | Veighted Average |  | Description |
|  |  | 100. | 0\% Perv | ous Area |  |
| $\begin{array}{r} \mathrm{Tc} \\ (\mathrm{~min}) \end{array}$ | Length (feet) | Slope <br> (ft/ft) | Velocity (ft/sec) | Capacity (cfs) |  |
| 23.1 | 258 | 0.1292 | 0.19 |  | Sheet Flow, |
|  |  |  |  |  | Woods: Light |
| 11.4 | 921 | 0.0369 | 1.34 |  | Shallow Con |

## Summary for Subcatchment P-1: P-1

Runoff = 18.35 cfs @ 12.41 hrs, Volume= Routed to Pond Pond : Detention Pond<br>1.897 af, Depth= $0.78{ }^{\prime \prime}$

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.01 hrs MSE 24-hr 4 1-Year Rainfall=2.49"

| Area (ac) | CN | Description |  |  |
| ---: | ---: | :--- | :--- | :--- |
| * | 1.591 | 98 | Roofs, HSG C |  |
| $*$ | 0.884 | 98 | Driveways, HSG C |  |
| 0.723 | 98 | Sidewalks, HSG C |  |  |
| 1.763 | 98 | Water Surface, HSG C |  |  |
| 23.034 | 74 | $>75 \%$ Grass cover, Good, HSG C |  |  |
| 1.140 | 70 | Woods, Good, HSG C |  |  |

## Summary for Subcatchment P-2: P-2

Runoff = 1.77 cfs @ 12.28 hrs, Volume $=0.148$ af, Depth $=0.78{ }^{\prime \prime}$

Routed to Reach Post-Dev : Post-Developed W/Controls and Offsite
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.01 hrs MSE 24-hr 4 1-Year Rainfall=2.49"

|  | Area $(\mathrm{ac})$ | CN | Description |
| :--- | ---: | :--- | :--- |
|  | 0.227 | 98 | Roofs, HSG C |
| $*$ | 0.119 | 98 | Driveways, HSG C |
| $*$ | 0.103 | 98 | Sidewalks, HSG C |
| 1.470 | 74 | $>75 \%$ Grass cover, Good, HSG C |  |
| 0.353 | 70 | Woods, Good, HSG C |  |
| 2.272 | 78 | Weighted Average |  |
| 1.823 |  | 80.24\% Pervious Area |  |
| 0.449 |  | 19.76\% Impervious Area |  |



## Summary for Subcatchment P-3: P-3

Runoff $=\quad 1.43$ cfs @ 12.22 hrs, Volume $=0.101$ af, Depth $=0.78{ }^{\prime \prime}$

Routed to Reach Post-Dev : Post-Developed W/Controls and Offsite
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.01 hrs MSE 24-hr 4 1-Year Rainfall=2.49"


## Summary for Subcatchment P-4: P-4

Runoff $=0.85$ cfs @ 12.14 hrs , Volume $=\quad 0.047$ af, Depth $=0.60{ }^{\prime \prime}$
Routed to Reach Post-Dev : Post-Developed W/Controls and Offsite
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.01 hrs MSE 24-hr 4 1-Year Rainfall=2.49"

| Area (ac) | CN | Description |
| ---: | ---: | :--- |
| 0.929 | 74 | $>75 \%$ Grass cover, Good, HSG C |
| 0.929 |  | $100.00 \%$ Pervious Area |


| Tc |  |  |  |  |
| ---: | ---: | ---: | ---: | ---: |
| $(\mathrm{min})$ | Length <br> $(\mathrm{feet})$ | Slope <br> $(\mathrm{ft} / \mathrm{ft})$ | Velocity <br> $(\mathrm{ft} / \mathrm{sec})$ | Capacity <br> $(\mathrm{cfs})$ |


| 2021-08-11 Post-Dev DRH - With Offsite | MSE 24-hr 4 4 1-Year Rainfall=2.49" |
| :--- | ---: |
| Prepared by Carrico Engineering | Printed $8 / 11 / 2021$ |
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## Summary for Reach Post-Dev: Post-Developed W/Controls and Offsite



Routing by Dyn-Stor-Ind method, Time Span= $0.00-30.00 \mathrm{hrs}$, dt= 0.01 hrs

## Summary for Pond Pond: Detention Pond



Routing by Dyn-Stor-Ind method, Time Span= 0.00-30.00 hrs, dt= 0.01 hrs Peak Elev= 979.10' @ 23.63 hrs Surf.Area= 83,007 sf Storage= 88,173 cf

Plug-Flow detention time $=557.2 \mathrm{~min}$ calculated for 0.440 af ( $19 \%$ of inflow)
Center-of-Mass det. time $=425.5 \mathrm{~min}(1,290.1-864.7)$


Primary OutFlow Max=0.32 cfs @ 23.63 hrs HW=979.10' TW=0.00' (Dynamic Tailwater)
L1 4 PVC Culvert (Inlet Controls 0.32 cfs @ 3.68 fps )
Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=978.00' TW=0.00' (Dynamic Tailwater)
L2 Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Time span $=0.00-30.00 \mathrm{hrs}, \mathrm{dt}=0.01 \mathrm{hrs}, 3001$ points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

## Subcatchment OS-1: OS-1

Subcatchment OS-2: OS-2

## Subcatchment P-1: P-1

Subcatchment P-2: P-2

## Subcatchment P-3: P-3

Subcatchment P-4: P-4

Runoff Area $=3.875$ ac $16.12 \%$ Impervious Runoff Depth $=1.07$ " Flow Length=1,222' Tc=17.7 $\mathrm{min} \quad \mathrm{CN}=79$ Runoff=4.30 cfs 0.346 af

Runoff Area $=3.718$ ac $0.00 \%$ Impervious Runoff Depth $=0.67$ " Flow Length=1,179' Tc=34.5 min CN=71 Runoff=1.61 cfs 0.208 af

Runoff Area=29.135 ac 17.03\% Impervious Runoff Depth=1.02" Flow Length=1,172' Tc=26.7 min CN=78 Runoff=24.46 cfs 2.468 af

Runoff Area=2.272 ac $19.76 \%$ Impervious Runoff Depth=1.02" Flow Length=300' Slope=0.0460 '/' Tc=17.9 min CN=78 Runoff=2.36 cfs 0.192 af

Runoff Area $=1.558$ ac $16.75 \%$ Impervious Runoff Depth=1.02" Flow Length=300' Slope=0.1050 '/' Tc=12.9 min CN=78 Runoff=1.90 cfs 0.132 af

Runoff Area $=0.929$ ac $0.00 \%$ Impervious Runoff Depth $=0.81^{\prime \prime}$ $\mathrm{Tc}=6.0 \mathrm{~min} \mathrm{CN}=74$ Runoff $=1.18 \mathrm{cfs} 0.063$ af

Reach Post-Dev: Post-Developed W/Controls and Offsite

Peak Elev=979.44' Storage=116,591 cf Inflow=29.25 cfs 3.022 af Primary $=0.37$ cfs 0.518 af Secondary $=0.00$ cfs 0.000 af Outflow $=0.37$ cfs 0.518 af

Time span=0.00-30.00 hrs, dt=0.01 hrs, 3001 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment OS-1: OS-1

Subcatchment OS-2: OS-2

Subcatchment P-1: P-1

Subcatchment P-2: P-2

Subcatchment P-3: P-3

Subcatchment P-4: P-4

Runoff Area=3.875 ac $16.12 \%$ Impervious Runoff Depth=2.04" Flow Length $=1,222^{\prime} \quad \mathrm{Tc}=17.7 \mathrm{~min} \quad \mathrm{CN}=79$ Runoff $=8.35 \mathrm{cfs} 0.658$ af

Runoff Area $=3.718$ ac $0.00 \%$ Impervious Runoff Depth $=1.46$ " Flow Length=1,179' Tc=34.5 min CN=71 Runoff=3.86 cfs 0.451 af

Runoff Area=29.135 ac 17.03\% Impervious Runoff Depth=1.96" Flow Length=1,172' Tc=26.7 min CN=78 Runoff=48.72 cfs 4.756 af

Runoff Area=2.272 ac $19.76 \%$ Impervious Runoff Depth=1.96" Flow Length=300' Slope=0.0460 '/' Tc=17.9 min CN=78 Runoff=4.68 cfs 0.371 af

Runoff Area $=1.558$ ac $16.75 \%$ Impervious Runoff Depth=1.96" Flow Length=300' Slope=0.1050 '/' Tc=12.9 min CN=78 Runoff=3.75 cfs 0.254 af

Runoff Area $=0.929$ ac $0.00 \%$ Impervious Runoff Depth $=1.666^{\prime \prime}$ $\mathrm{Tc}=6.0 \mathrm{~min} \mathrm{CN}=74$ Runoff $=2.51 \mathrm{cfs} 0.129$ af

Reach Post-Dev: Post-Developed W/Controls and Offsite
Inflow=10.64 cfs 3.947 af Outflow=10.64 cfs 3.947 af

Pond Pond: Detention Pond

Peak Elev=979.82' Storage=148,904 cf Inflow=58.95 cfs 5.865 af Primary $=0.43$ cfs 0.580 af Secondary $=9.16$ cfs 2.613 af Oufflow=9.59 cfs 3.193 af

Total Runoff Area 41.487 ac Runoff Volume 6.619 af Average Runoff Depth 1.91 84.83 Pervious 35.191 ac 15.17 Impervious 6.295 ac

Time span $=0.00-30.00 \mathrm{hrs}, \mathrm{dt}=0.01 \mathrm{hrs}, 3001$ points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment OS-1: OS-1

Subcatchment OS-2: OS-2

## Subcatchment P-1: P-1

Subcatchment P-2: P-2

## Subcatchment P-3: P-3

Subcatchment P-4: P-4

Runoff Area=3.875 ac $16.12 \%$ Impervious Runoff Depth=4.27" Flow Length=1,222' Tc=17.7 min CN=79 Runoff=17.43 cfs 1.380 af

Runoff Area $=3.718$ ac $0.00 \%$ Impervious Runoff Depth $=3.44$ " Flow Length=1,179' Tc=34.5 min CN=71 Runoff=9.47 cfs 1.066 af

Runoff Area=29.135 ac 17.03\% Impervious Runoff Depth=4.17" Flow Length=1,172' Tc=26.7 min CN=78 Runoff=104.18 cfs 10.119 af

Runoff Area=2.272 ac $19.76 \%$ Impervious Runoff Depth=4.17" Flow Length=300' Slope=0.0460 '/' Tc=17.9 min CN=78 Runoff=9.94 cfs 0.789 af

Runoff Area $=1.558$ ac $16.75 \%$ Impervious Runoff Depth=4.17" Flow Length=300' Slope=0.1050 $/ / \mathrm{Tc}=12.9 \mathrm{~min} \mathrm{CN}=78$ Runoff=7.94 cfs 0.541 af

Runoff Area $=0.929$ ac $0.00 \%$ Impervious Runoff Depth $=3.75^{\prime \prime}$ $\mathrm{Tc}=6.0 \mathrm{~min} \mathrm{CN}=74$ Runoff $=5.62 \mathrm{cfs} 0.290$ af

Reach Post-Dev: Post-Developed W/Controls and Offsite
Inflow=68.66 cfs 11.491 af Outflow=68.66 cfs 11.491 af

Pond Pond: Detention Pond Peak Elev=980.67' Storage=226,854 cf Inflow=126.84 cfs 12.564 af Primary $=0.52$ cfs 0.621 af Secondary $=63.40$ cfs 9.250 af Outflow=63.92 cfs 9.871 af

Total Runoff Area 41.487 ac Runoff Volume $\quad 14.185$ af $\quad$ Average Runoff Depth 4.10 84.83 Pervious 35.191 ac 15.17 Impervious 6.295 ac

## Section 5: Sediment Reduction <br> Calculations

SLAMM for Windows Version 10.4.1
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Data file name: K:\Carrico Engineering\Projects\2020\200018 Dairy Ridge Heights - Saalsaa - Twin
Rock\Design Development\Stormwater and Erosion Control\Modeling\Infiltration
Modeling $2021-08-11$ Post-Dev DRH.mdb
Data file description:
Rain file name: C:\WinSLAMM Files\Rain Files\WisReg - Madison WI 1981.RAN
Particulate Solids Concentration file name: C:\WinSLAMM Files \v10.1 WI_AVG01.pscx
Runoff Coefficient file name: C:\WinSLAMM Files\WI SL06 Dec06.rsvx
Pollutant Relative Concentration file name: C: \WinS̄LAMM Files\WI_GE003.ppdx
Residential Street Delivery file name: C:\WinSLAMM Files\WI Res and Other Urban Dec06.std
Institutional Street Delivery file name: C:\WinSLAMM Files $\bar{W} I$ Com Inst Indust Dec06.std
Commercial Street Delivery file name: C:\WinSLAMM Files\WI_Com Inst Indust Dec06.std
Industrial Street Delivery file name: C:\WinSLAMM Files ${ }^{\text {WI Com }}$ Inst Indust Dec06.std
Other Urban Street Delivery file name: C:\WinSLAMM Files $\backslash W \bar{I}$ Res and Other Urban Dec06.std
Freeway Street Delivery file name: C:\WinSLAMM Files\Freeway Dec06.std
Apply Street Delivery Files to Adjust the After Event Load Street Dirt Mass Balance: False
Source Area PSD and Peak to Average Flow Ratio File: C:\WinSLAMM Files\NURP Source Area PSD Files.csv
Cost Data file name:
Seed for random number generator: -42
Start of Winter Season: 12/02 End of Winter Season: 03/12
Model Run Start Date: 01/01/81 Model Run End Date: 12/31/81
Date of run: 08-11-2021 Time of run: 11:40:31
Total Area Modeled (acres): 41.487
Years in Model Run: 1.00

|  | Runoff Volume ( cu ft ) | Percent Runoff Volume Reduction | Particulate Solids Conc. (mg/L) | Particulate Solids Yield (lbs) | Percent Particulate Solids Reduction |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Total of all Land Uses without Controls: | 689349 | - | 139.0 | 5981 | - |
| Outfall Total with Controls: | 692262 | -0.42\% | 15.83 | 684.1 | 88.56\% |
| Annualized Total After Outfall Controls: | 694164 |  |  | 686.0 |  |



```
Data file name: K:\Carrico Engineering\Projects\2020\200018 Dairy Ridge Heights - Saalsaa - Twin Rock\Design Development\Stormwater and Erosion Control\Modeling\nfiltr
WinSLAMM Version 10.4.1
Rain file name: C:\WinSLAMM Files\Rain Files\WisReg - Madison WI 1981.RAN
Particulate Solids Concentration file name: C:\WinSLAMM Files\v10.1 WI_AVG01.pscx
Runoff Coefficient file name: C:\WinSLAMM Files\WI_SL06 Dec06.rsvx
Residential Street Delivery file name: C:\WinSLAMM Files\WI Res and Other Urban Dec06.std
Institutional Street Delivery file name: C:\WinSLAMM Files\WI_Com Inst Indust Dec06.std
Commercial Street Delivery file name:C:\W inSLAMM Files\WI_Com Inst Indust Dec06.std
Industrial Street Delivery file name: C:\WinSLAMM Files\WI_Com Inst Indust Dec06.std
Other Urban Street Delivery file name: C:\WinSLAMM Files\WI_Res and Other Urban Dec06.std
Freeway Street Delivery file name:C:\W inSLAMM Files\Freeway Dec06.std
Apply Street Delivery Files to Adjust the After Event Load Street Dirt Mass Balance: False
Pollutant Relative Concentration file name: C:\WinSLAMM Files\WI_GEO03.ppdx
Source Area PSD and Peak to Average Flow Ratio File:C:\WinSLAMM Files\NURP Source Area PSD Files.csv
Cost Data file name:
Seed for random number generator: -42
Study period starting date: 01/01/81 Study period ending date: 12/31/81
Start of Winter Season: 12/02 End of Winter Season: 03/12
Date: 08-11-2021
Site information:
LU# 1 - Residential: P-1 Total area (ac): 29.135
    1-Roofs 1: 1.591 ac. Pitched Disconnected Normal Clayey Low Density PSD File: C:\WinSLAMM Files\NURP.cpz
    25-Driveways 1: 0.884 ac. Connected PSD File: C:IWinSLAMM Files\NURP.cpz
    31-Sidewalks 1: 0.723 ac. Connected PSD File: C:\WinSLAMM Files\NURP.cpz
    45-Large Landscaped Areas 1: 23.034 ac. Normal Clayey PSD File: C:IWinSLAMM Files\NURP.cpz
    57- Undeveloped Areas 1: 1.140 ac. Normal Clayey PSD File: C:\WinSLAMM Files\NURP.cpz
    70 - Water Body Areas: 1.763 ac. PSD File:
LU# 2 - Residential: P-2 Total area (ac): 2.272
    1-Roofs 1: 0.227 ac. Pitched Disconnected Normal Clayey Low Density PSD File: C:\WinSLAMM Files\NURP.cpz
    25-Driveways 1: 0.119 ac. Connected PSD File: C:\WinSLAMM Files\NURP.cpz
    31-Sidewalks 1: 0.103 ac. Connected PSD File: C:IWinSLAMM Files\NURP.cpz
    45 - Large Landscaped Areas 1: 1.470 ac. Normal Clayey PSD File: C:\WinSLAMM Files\NURP.cpz
    57- Undeveloped Areas 1: 0.353 ac. Normal Clayey PSD File: C:\WinSLAMM Files\NURP.cpz
LU# 3 - Residential: P-3 Total area (ac): 1.558
    1-Roofs 1: 0.152 ac. Pitched Disconnected Normal Clayey Low Density PSD File: C:\WinSLAMM Files\NURP.cpz
    25-Driveways 1: 0.040 ac. Connected PSD File: C:IWinSLAMM Files\NURP.cpz
    31-Sidewalks 1: 0.069 ac. Connected PSD File: C:IWinSLAMM Files\NURP.cpz
    45 - Large Landscaped Areas 1:1.297 ac. Normal Clayey PSD File: C:\WinSLAMM Files\NURP.cpz
LU# 4 - Residential: P-4 Total area (ac): 0.929
    45-Large Landscaped Areas 1: 0.929 ac. Normal Clayey PSD File: C:\WinSLAMM Files\NURP.cpz
LU# 5 - Residential: OS-1 Total area (ac): 3.875
    - Roofs 1: 0.164 ac. Pitched Disconnected Normal Clayey Low Density PSD File: C:\WinSLAMM Files\NURP.cpz OD-CP#2
    25-Driveways 1: 0.109 ac. Connected PSD File: C:\WinSLAMM Files\NURP.cpz OD-CP#3
    31-Sidewalks 1: 0.020 ac. Connected PSD File: C:\WinSLAMM Files\NURP.cpz OD-CP#4
    37-Streets 1: 0.663 ac. Smooth Street Length = 0.781 curb-mi Street Width (assuming two curb-mi per street mile)=14.00704 ft
        Default St. Dirt Accum. Annual Winter Load = 2500 lbs PSD File: C:\WinSLAMM Files\NURP.cpz OD-CP#5
    45-Large Landscaped Areas 1: 2.919 ac. Normal Clayey PSD File: C:\WinSLAMM Files\NURP.cpz OD-CP#6
LU# 6 - Residential: OS-2 Total area (ac): 3.718
    57- Undeveloped Areas 1: 3.718 ac. Normal Clayey PSD File: C:IWinSLAMM Files\NURP.cpz OD-CP#7
```

Control Practice 1: Wet Detention Pond CP\# 1 (DS) - DS Wet Pond \# 1 Particle Size Distribution file name: Not needed - calculated by program Initial stage elevation (ft): 15
Peak to Average Flow Ratio: 3.8
Maximum flow allowed into pond (cfs): No maximum value entered
Outlet Characteristics:

## Outlet type: Orifice 1

1. Orifice diameter (ft): 0.33
2. Number of orifices:
3. Invert elevation above datum (ft): 15

Outlet type: Broad Crested Weir

1. Weir crest length (ft): 19
2. Weir crest width (ft): 22
3. Height from datum to bottom of weir opening: 16.5

Pond stage and surface area

| Entry <br> Number | Stage <br> $(\mathrm{ft})$ | Pond Area <br> $($ acres $)$ | Natural Seepage <br> $(\mathrm{in} / \mathrm{hr})$ | Other Outflow <br> $(\mathrm{cfs})$ |
| :---: | :---: | :---: | :---: | :---: |
| 0 | 0.00 | 0.0000 | 0.00 | 0.00 |
| 1 | 0.10 | 0.1617 | 0.00 | 0.00 |
| 2 | 1.00 | 0.1871 | 0.00 | 0.00 |
| 3 | 2.00 | 0.2160 | 0.00 | 0.00 |
| 4 | 3.00 | 0.2456 | 0.00 | 0.00 |
| 5 | 4.00 | 0.2759 | 0.00 | 0.00 |
| 6 | 5.00 | 0.7034 | 0.00 | 0.00 |
| 7 | 6.00 | 0.7574 | 0.00 | 0.00 |
| 8 | 7.00 | 0.8119 | 0.00 | 0.00 |
| 9 | 8.00 | 0.8670 | 0.00 | 0.00 |
| 10 | 9.00 | 0.9227 | 0.00 | 0.00 |
| 11 | 10.00 | 1.2097 | 0.00 | 0.00 |
| 12 | 11.00 | 1.2688 | 0.00 | 0.00 |
| 13 | 12.00 | 1.3286 | 0.00 | 0.00 |
| 14 | 13.00 | 1.3888 | 0.00 | 0.00 |
| 15 | 14.00 | 1.4497 | 0.00 | 0.00 |
| 16 | 15.00 | 1.7627 | 0.00 | 0.00 |
| 17 | 16.00 | 1.8919 | 0.00 | 0.00 |
| 18 | 17.00 | 2.0235 | 0.00 | 0.00 |
| 19 | 18.00 | 2.3279 | 0.00 | 0.00 |

Control Practice 2: Other Device CP\# 1 (SA) - SA Device, LU\# 5 ,SA\# 1
Fraction of drainage area served by device $(\mathrm{ac})=1.00$
Particulate Concentration reduction fraction $=1.00$
Filterable Concentration reduction fraction $=0.00$
Runoff volume reduction fraction $=0$
Control Practice 3: Other Device CP\# 2 (SA) - SA Device, LU\# 5 ,SA\# 25
Fraction of drainage area served by device (ac) $=1.00$
Particulate Concentration reduction fraction $=1.00$
Filterable Concentration reduction fraction $=0.00$
Runoff volume reduction fraction $=0$
Control Practice 4: Other Device CP\# 3 (SA) - SA Device, LU\# 5 ,SA\# 31
Fraction of drainage area served by device (ac) $=1.00$
Particulate Concentration reduction fraction $=1.00$
Filterable Concentration reduction fraction $=0.00$
Runoff volume reduction fraction $=0$
Control Practice 5: Other Device CP\# 4 (SA) - SA Device, LU\# 5 ,SA\# 37
Fraction of drainage area served by device (ac) = 1.00
Particulate Concentration reduction fraction $=1.00$
Filterable Concentration reduction fraction $=0.00$
Runoff volume reduction fraction $=0$
Control Practice 6: Other Device CP\# 5 (SA) - SA Device, LU\# 5 ,SA\# 45
Fraction of drainage area served by device (ac) $=1.00$
Particulate Concentration reduction fraction $=1.00$
Filterable Concentration reduction fraction $=0.00$
Runoff volume reduction fraction $=0$
Control Practice 7: Other Device CP\# 6 (SA) - SA Device, LU\# 6 ,SA\# 57 Fraction of drainage area served by device (ac) $=1.00$
Particulate Concentration reduction fraction $=1.00$
Filterable Concentration reduction fraction $=0.00$
Runoff volume reduction fraction $=0$

## Section 6: Infiltration Calculations

## Infiltration Calculations

Pre-Developed Conditions
Stay On: 26.25 inches
Required to Infiltrate $90 \%$ of 26.25 inches or 23.625 inches


## Post-Developed Conditions

Stay On: 24.23 inches
Required to Infiltrate $90 \%$ of 26.25 inches or 23.625 inches
Achieving 24.23 inches $\rightarrow$ Performance Standard Met



Data file name: K:\Carrico Engineering\Projects\2020\200018 Dairy Ridge Heights - Saalsaa - Twin Rock\Design DevelopmentlStormwater and Erosion Control\Modeling\nfiltr WinSLAMM Version 10.4.1
Rain file name: C:IWinSLAMM Files\Rain Files\WisReg - Madison WI 1981.RAN
Particulate Solids Concentration file name: C:IWinSLAMM Fileslv10.1 WI AVG01.pscx
Runoff Coefficient file name: C:IWinSLAMM Files\WI_SL06 Dec06.rsvx
Residential Street Delivery file name: C:IWinSLAMM Files\WI_Res and Other Urban Dec06.std
Institutional Street Delivery file name: C:IWinSLAMM Files\WI_Com Inst Indust Dec06.std
Commercial Street Delivery file name: C:\WinSLAMM Files\WI_Com Inst Indust Dec06.std
Industrial Street Delivery file name: C:IWinSLAMM Files\WI_Com Inst Indust Dec06.std
Other Urban Street Delivery file name: C:IWinSLAMM Files\WI_Res and Other Urban Dec06.std
Freeway Street Delivery file name: C:IWinSLAMM Files\Freeway Dec06.std
Apply Street Delivery Files to Adjust the After Event Load Street Dirt Mass Balance: False
Pollutant Relative Concentration file name: C:IWinSLAMM Files\WI_GEO03.ppdx
Source Area PSD and Peak to Average Flow Ratio File: C:IWinSLAMM Files\NURP Source Area PSD Files.csv
Cost Data file name:
Seed for random number generator: -42
Study period starting date: 01/01/81 Study period ending date: 12/31/81
Start of Winter Season: 12/02 End of Winter Season: 03/12
Date: 08-11-2021
Site information:
LU\# 1 - Residential: Dairy Ridge Heights Pre-Developed Total area (ac): 33.894
25 - Driveways 1: 0.070 ac. Connected PSD File: C:IWinSLAMM Files ${ }^{2}$ INURP.cpz
57 - Undeveloped Areas 1: 33.824 ac. Normal Clayey PSD File: C:IWinSLAMM Files\NURP.cpz
LU\# 2 - Residential: OS-1 Total area (ac): 3.875
1 - Roofs 1: 0.164 ac. Pitched Disconnected Normal Clayey Low Density PSD File: C:UWinSLAMM Files 1 NURP.cpz OD-CP\#1
25 - Driveways 1: 0.109 ac. Connected PSD File: C:\WinSLAMM Files\NURP.cpz OD-CP\#2
31 - Sidewalks 1: 0.020 ac. Connected PSD File: C:IWinSLAMM Files\NURP.cpz OD-CP\#3
37 - Streets 1: 0.663 ac. Smooth Street Length $=0.781$ curb-mi Street Width (assuming two curb-mi per street mile) $=14.00704 \mathrm{ft}$ Default St. Dirt Accum. Annual Winter Load $=2500 \mathrm{lbs}$ PSD File: C:WWinSLAMM Files ${ }^{2}$ NURP.cpz OD-CP\#4
45 - Large Landscaped Areas 1: 2.919 ac. Normal Clayey PSD File: C:\WinSLAMM Files 1 NURP.cpz OD-CP\#5
LU\# 3 - Residential: OS-2 Total area (ac): 3.718
57 - Undeveloped Areas 1: 3.718 ac. Normal Clayey PSD File: C:IWinSLAMM Files\NURP.cpz OD-CP\#6
Control Practice 1: Other Device CP\# 1 (SA) - SA Device, LU\# 2 ,SA\# 1
Fraction of drainage area served by device (ac) $=1.00$
Particulate Concentration reduction fraction $=1.00$
Filterable Concentration reduction fraction $=0.00$
Runoff volume reduction fraction $=0$
Control Practice 2: Other Device CP\# 2 (SA) - SA Device, LU\# 2 ,SA\# 25 Fraction of drainage area served by device (ac) $=1.00$
Particulate Concentration reduction fraction $=1.00$
Filterable Concentration reduction fraction $=0.00$
Runoff volume reduction fraction $=0$
Control Practice 3: Other Device CP\# 3 (SA) - SA Device, LU\# 2 ,SA\# 31 Fraction of drainage area served by device (ac) = 1.00
Particulate Concentration reduction fraction $=1.00$
Filterable Concentration reduction fraction $=0.00$ Runoff volume reduction fraction $=0$
Control Practice 4: Other Device CP\# 4 (SA) - SA Device, LU\# 2 ,SA\# 37 Fraction of drainage area served by device (ac) = 1.00 Particulate Concentration reduction fraction $=1.00$ Filterable Concentration reduction fraction $=0.00$ Runoff volume reduction fraction $=0$
Control Practice 5: Other Device CP\# 5 (SA) - SA Device, LU\# 2 ,SA\# 45 Fraction of drainage area served by device $(\mathrm{ac})=1.00$
Particulate Concentration reduction fraction $=1.00$ Filterable Concentration reduction fraction $=0.00$ Runoff volume reduction fraction $=0$
Control Practice 6: Other Device CP\# 6 (SA) - SA Device, LU\# 3 ,SA\# 57 Fraction of drainage area served by device (ac) $=1.00$
Particulate Concentration reduction fraction $=1.00$
Filterable Concentration reduction fraction $=0.00$
Runoff volume reduction fraction $=0$


```
Data file name: K:\Carrico Engineering\Projects\2020\200018 Dairy Ridge Heights - Saalsaa - Twin Rock\Design Development\Stormwater and Erosion Control\Modeling\nfiltr
WinSLAMM Version 10.4.1
Rain file name: C:\WinSLAMM Files\Rain Files\WisReg - Madison WI 1981.RAN
Particulate Solids Concentration file name: C:\WinSLAMM Files\v10.1 WI_AVG01.pscx
Runoff Coefficient file name: C:\WinSLAMM Files\WI_SL06 Dec06.rsvx
Residential Street Delivery file name: C:\WinSLAMM Files\WI Res and Other Urban Dec06.std
Institutional Street Delivery file name: C:\WinSLAMM Files\WI_Com Inst Indust Dec06.std
Commercial Street Delivery file name:C:\W inSLAMM Files\WI_Com Inst Indust Dec06.std
Industrial Street Delivery file name: C:\WinSLAMM Files\WI_Com Inst Indust Dec06.std
Other Urban Street Delivery file name: C:\WinSLAMM Files\WI_Res and Other Urban Dec06.std
Freeway Street Delivery file name:C:\W inSLAMM Files\Freeway Dec06.std
Apply Street Delivery Files to Adjust the After Event Load Street Dirt Mass Balance: False
Pollutant Relative Concentration file name: C:\WinSLAMM Files\WI_GEO03.ppdx
Source Area PSD and Peak to Average Flow Ratio File:C:\WinSLAMM Files\NURP Source Area PSD Files.csv
Cost Data file name:
Seed for random number generator: -42
Study period starting date: 01/01/81 Study period ending date: 12/31/81
Start of Winter Season: 12/02 End of Winter Season: 03/12
Date: 08-11-2021
Site information:
LU# 1 - Residential: P-1 Total area (ac): 29.135
    1-Roofs 1: 1.591 ac. Pitched Disconnected Normal Clayey Low Density PSD File: C:\WinSLAMM Files\NURP.cpz
    25-Driveways 1: 0.884 ac. Connected PSD File: C:IWinSLAMM Files\NURP.cpz
    31-Sidewalks 1: 0.723 ac. Connected PSD File: C:\WinSLAMM Files\NURP.cpz
    45-Large Landscaped Areas 1: 23.034 ac. Normal Clayey PSD File: C:IWinSLAMM Files\NURP.cpz
    57- Undeveloped Areas 1: 1.140 ac. Normal Clayey PSD File: C:\WinSLAMM Files\NURP.cpz
    70 - Water Body Areas: 1.763 ac. PSD File:
LU# 2 - Residential: P-2 Total area (ac): 2.272
    1-Roofs 1: 0.227 ac. Pitched Disconnected Normal Clayey Low Density PSD File: C:\WinSLAMM Files\NURP.cpz
    25-Driveways 1: 0.119 ac. Connected PSD File: C:\WinSLAMM Files\NURP.cpz
    31-Sidewalks 1: 0.103 ac. Connected PSD File: C:IWinSLAMM Files\NURP.cpz
    45 - Large Landscaped Areas 1: 1.470 ac. Normal Clayey PSD File: C:\WinSLAMM Files\NURP.cpz
    57- Undeveloped Areas 1: 0.353 ac. Normal Clayey PSD File: C:\WinSLAMM Files\NURP.cpz
LU# 3 - Residential: P-3 Total area (ac): 1.558
    1-Roofs 1: 0.152 ac. Pitched Disconnected Normal Clayey Low Density PSD File: C:\WinSLAMM Files\NURP.cpz
    25-Driveways 1: 0.040 ac. Connected PSD File: C:IWinSLAMM Files\NURP.cpz
    31-Sidewalks 1: 0.069 ac. Connected PSD File: C:IWinSLAMM Files\NURP.cpz
    45 - Large Landscaped Areas 1:1.297 ac. Normal Clayey PSD File: C:\WinSLAMM Files\NURP.cpz
LU# 4 - Residential: P-4 Total area (ac): 0.929
    45-Large Landscaped Areas 1: 0.929 ac. Normal Clayey PSD File: C:\WinSLAMM Files\NURP.cpz
LU# 5 - Residential: OS-1 Total area (ac): 3.875
    - Roofs 1: 0.164 ac. Pitched Disconnected Normal Clayey Low Density PSD File: C:\WinSLAMM Files\NURP.cpz OD-CP#2
    25-Driveways 1: 0.109 ac. Connected PSD File: C:\WinSLAMM Files\NURP.cpz OD-CP#3
    31-Sidewalks 1: 0.020 ac. Connected PSD File: C:\WinSLAMM Files\NURP.cpz OD-CP#4
    37-Streets 1: 0.663 ac. Smooth Street Length = 0.781 curb-mi Street Width (assuming two curb-mi per street mile)=14.00704 ft
        Default St. Dirt Accum. Annual Winter Load = 2500 lbs PSD File: C:\WinSLAMM Files\NURP.cpz OD-CP#5
    45-Large Landscaped Areas 1: 2.919 ac. Normal Clayey PSD File: C:\WinSLAMM Files\NURP.cpz OD-CP#6
LU# 6 - Residential: OS-2 Total area (ac): 3.718
    57- Undeveloped Areas 1: 3.718 ac. Normal Clayey PSD File: C:IWinSLAMM Files\NURP.cpz OD-CP#7
```

Control Practice 1: Wet Detention Pond CP\# 1 (DS) - DS Wet Pond \# 1 Particle Size Distribution file name: Not needed - calculated by program Initial stage elevation (ft): 15
Peak to Average Flow Ratio: 3.8
Maximum flow allowed into pond (cfs): No maximum value entered
Outlet Characteristics:

## Outlet type: Orifice 1

1. Orifice diameter (ft): 0.33
2. Number of orifices:
3. Invert elevation above datum (ft): 15

Outlet type: Broad Crested Weir

1. Weir crest length (ft): 19
2. Weir crest width (ft): 22
3. Height from datum to bottom of weir opening: 16.5

Pond stage and surface area

| Entry <br> Number | Stage <br> $(\mathrm{ft})$ | Pond Area <br> $($ acres $)$ | Natural Seepage <br> $(\mathrm{in} / \mathrm{hr})$ | Other Outflow <br> $(\mathrm{cfs})$ |
| :---: | :---: | :---: | :---: | :---: |
| 0 | 0.00 | 0.0000 | 0.00 | 0.00 |
| 1 | 0.10 | 0.1617 | 0.00 | 0.00 |
| 2 | 1.00 | 0.1871 | 0.00 | 0.00 |
| 3 | 2.00 | 0.2160 | 0.00 | 0.00 |
| 4 | 3.00 | 0.2456 | 0.00 | 0.00 |
| 5 | 4.00 | 0.2759 | 0.00 | 0.00 |
| 6 | 5.00 | 0.7034 | 0.00 | 0.00 |
| 7 | 6.00 | 0.7574 | 0.00 | 0.00 |
| 8 | 7.00 | 0.8119 | 0.00 | 0.00 |
| 9 | 8.00 | 0.8670 | 0.00 | 0.00 |
| 10 | 9.00 | 0.9227 | 0.00 | 0.00 |
| 11 | 10.00 | 1.2097 | 0.00 | 0.00 |
| 12 | 11.00 | 1.2688 | 0.00 | 0.00 |
| 13 | 12.00 | 1.3286 | 0.00 | 0.00 |
| 14 | 13.00 | 1.3888 | 0.00 | 0.00 |
| 15 | 14.00 | 1.4497 | 0.00 | 0.00 |
| 16 | 15.00 | 1.7627 | 0.00 | 0.00 |
| 17 | 16.00 | 1.8919 | 0.00 | 0.00 |
| 18 | 17.00 | 2.0235 | 0.00 | 0.00 |
| 19 | 18.00 | 2.3279 | 0.00 | 0.00 |

Control Practice 2: Other Device CP\# 1 (SA) - SA Device, LU\# 5 ,SA\# 1
Fraction of drainage area served by device $(\mathrm{ac})=1.00$
Particulate Concentration reduction fraction $=1.00$
Filterable Concentration reduction fraction $=0.00$
Runoff volume reduction fraction $=0$
Control Practice 3: Other Device CP\# 2 (SA) - SA Device, LU\# 5 ,SA\# 25
Fraction of drainage area served by device (ac) $=1.00$
Particulate Concentration reduction fraction $=1.00$
Filterable Concentration reduction fraction $=0.00$
Runoff volume reduction fraction $=0$
Control Practice 4: Other Device CP\# 3 (SA) - SA Device, LU\# 5 ,SA\# 31
Fraction of drainage area served by device (ac) $=1.00$
Particulate Concentration reduction fraction $=1.00$
Filterable Concentration reduction fraction $=0.00$
Runoff volume reduction fraction $=0$
Control Practice 5: Other Device CP\# 4 (SA) - SA Device, LU\# 5 ,SA\# 37
Fraction of drainage area served by device (ac) = 1.00
Particulate Concentration reduction fraction $=1.00$
Filterable Concentration reduction fraction $=0.00$
Runoff volume reduction fraction $=0$
Control Practice 6: Other Device CP\# 5 (SA) - SA Device, LU\# 5 ,SA\# 45
Fraction of drainage area served by device (ac) $=1.00$
Particulate Concentration reduction fraction $=1.00$
Filterable Concentration reduction fraction $=0.00$
Runoff volume reduction fraction $=0$
Control Practice 7: Other Device CP\# 6 (SA) - SA Device, LU\# 6 ,SA\# 57 Fraction of drainage area served by device (ac) $=1.00$
Particulate Concentration reduction fraction $=1.00$
Filterable Concentration reduction fraction $=0.00$
Runoff volume reduction fraction $=0$

## Section 7: Erosion Control Calculations

## Universal Soil Loss Equation for Construction Sites

Dane County Land Conservation Division

| Developer: | Twin Rock, LLC |
| :--- | :--- |
| Project: | Dairy Ridge Heights |
| Date: | $8 / 11 / 2021$ |

Version 2.2

| Land Disturbing Activity | Begin Date | End Date | Period R | Annual R Factor | Soil Map Unit | Soil Erodibility K Factor | Slope ( ) | Slope Length (feet) | LS <br> Factor | Land Cover C Factor | A $\begin{aligned} & \text { Soil loss } \\ & \text { RxRxKxLSxC } \\ & \text { (tons/acre) }\end{aligned}$ | Percent Reduction Required |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |  |  |  | (7.5 tons/acre) |
| disturb ground - | 5/5/2022 | 6/25/2022 | 24.5\% | 150 | TrB | 0.28 | 5.5\% | 290 | 1.03 | 1.00 | 10.5 |  |
| seed and mulch - | 6/25/2022 | ----- | 41.4\% | 150 | TrB | 0.28 | 10.0\% | 75 | 1.19 | 0.12 | 2.5 |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| - |  | ----- | --- | ----- |  | ----- |  |  | ----- | ----- | ----- |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| $\checkmark$ |  | ----- | -- | ----- |  | ----- |  |  | ----- | ----- | ----- |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| $\checkmark$ |  | ----- | --- | ----- |  | ----- |  |  | ----- | ----- | ----- |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| - |  | -- | ----- | -- |  | ----- |  |  | -- | ----- | ----- |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | TOTAL | 13.0 | 42 |

disturb ground apply mulch seed and mulch seeding sod paving

## definition

activity which leaves the ground devoid of vegetation
application of straw mulch at 1.5 tons/acre
seeding and application of straw mulch at 1.5 tons/acre
temporary or permanent seeding without the use of mulching materials installation of sod providing $100 \%$ cover to disturbed ground with paving materials or stone

## Notes:

| Designed By: | Adam Carrico, PE |
| :--- | :--- |
| Date | $8 / 11 / 2021$ |
| Checked By: |  |
| Date |  |

## Section 8: Riprap Sizing

## RIP RAP SHEAR STRESS CALCULATIONS

# Dairy Ridge Heights Town of Verona <br> Dane County, Wisconsin 

## Prepared For:

Twin Rock, ШС
Bret Saalsaa
Prepared By:
Camico Engineering
and Consulting, Inc.
1926 N Kollath Road
Verona, WI 53593
Prepared On:
August 11, 2021
Revised On:

Project ID: 200018
© 2021 Camico Engineering and Consulting, Inc.

## Dairy Ridge Heights - Town of Verona, Dane County, Wisconsin

## Overflow Weir/ Spillway Shear Stress Calculations

The 100-yr Storm Elevation was determined from the following HydroCAD model: 2021-08-11_Post-Dev_DRH With Offiste

The following equation was used to detemine shear stress for the emergency spillway:
$\mathrm{T}=\gamma \times \mathrm{D} \times \mathrm{S}$
$\mathrm{T}=$ Shear Stress (lb/ft2)
$r=$ Density of Water (lb/ft3) $=62.4 \mathrm{lb} / \mathrm{ft}^{3}$
$\mathrm{D}=$ Water Depth (ft)
$\mathrm{S}=$ Slope of Bank from Emergenc y Spillway to Toe of Slope (ft/ft)

## Wet Basin

$T=62.4 \mathrm{lb} / \mathrm{ft}^{3} \times 1.17 \mathrm{ft} \times 0.10 \mathrm{ft} / \mathrm{ft}=\underline{\mathbf{7 . 3 0}} \mathbf{\mathrm { lb } / \mathrm { ft } ^ { 2 }}$

|  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Wet Basin | 19 | 22 | 981.00 | 979.50 | 980.67 | 0.10 | 7.3 | 15.4 | YES |

## Verification of Riprap stable outlet for Forebays

The following equation was used to determine the permissible shearstress for the riprap linings which wastaken from the U.S. Department of Transportation Federal Highway Administration - Design of Roadside Channels with Flexible Linings:
$\tau_{p}=F^{*}\left(\gamma_{s}-\Upsilon\right) \times D_{50}$
$\tau_{p}=$ Permissible Shear Stress ( $\mathrm{lb} / \mathrm{ft}^{2}$ )
$r_{s}=$ Specific wight of the stone $=165 \mathrm{lb} / \mathrm{ft}^{3}$
$r=$ Specific of Water $\left(\mathrm{lb} / \mathrm{ft}^{3}\right)=62.4 \mathrm{lb} / \mathrm{ft}^{3}$
$\mathrm{F}^{*}=$ Shield's pa rameter, dimensionless (calculated below)
$\mathrm{D}_{50}=$ mean riprap size ( ft )
To detemine the Shield'sparameter, first the Reynolds number needs to be established:
$\mathrm{Re}_{\mathrm{e}}=\left(\mathrm{V}_{0} \times \mathrm{D}_{50}\right) / \mathrm{v}$
$\mathrm{R}_{\mathrm{e}}=$ particle Reynolds number, dimensionless
$\mathrm{V}_{\mathrm{o}}=$ shear velocity, (ft/s)
$v=$ kinematic viscosity $=1.217 \times 10^{-5} \mathrm{ft} / \mathrm{s}$ sat 60 deg F
Where shearvelocity is defined as:
$\mathrm{V}_{0}=\sqrt{g d S}$
$\mathrm{g}=\mathrm{gravitational}$ acceleration $=32.2 \mathrm{ft} / \mathrm{s} 2$
$\mathrm{d}=$ maximum channel depth, ft
$\mathrm{S}=$ channel slope, ( $\mathrm{ft} / \mathrm{ft}$ ) ( 0.10 slope is proposed)

## Wet Basin

Stability for riprap for the overflow for the Wet Basin hasbeen calculated for the 100-yr storm only to ensure stability. The overflow width is 22 feet and the entire width of overflow is proposed to be lined with riprap. The d, maximum channel depth for the Wet Basin is 1 foot per plan which is at the top of the overflow.
$\operatorname{Re}=\left(\sqrt{g d S} \times D_{50}\right) / v=\left(\sqrt{32.2 * 1.0 * 0.10} \times 12^{\prime \prime} / 12\right) / 1.217 \times 10^{-5} \mathrm{ft} / \mathrm{s}=1.47 \times 10^{5}$
$\mathrm{F}^{*}=0.15$
$\mathrm{SF}=1.5$
$\tau_{p}=F^{*}\left(Y_{s}-\Upsilon\right) \times D_{50}=0.15 \times(165-62.4) \times 12^{\prime \prime} / 12=15.4 \mathrm{lb} / \mathrm{ft}^{2}=$ permissible shear stress
From the table, the calculated shear stress for the 100 -yr storm for the Wet Basin generatesa shear stress of 7.3 $\mathrm{lb} / \mathrm{ft}^{2}$ which is less than the permissible shear stress of $15.4 \mathrm{lb} / \mathrm{ft}^{2}$ with 12 " niprap.

The calc ulations for the overflow spillway for Forebay 4 yield a $D_{50}=12$-inch. The plans indicate 12 " angular niprap at a depth of 24 inches.

## Section 9: Exhibits

### 9.1 Navigability/Wetland Determination Letter

# Dane County Planning \& Development <br> Division of Zoning 

July 3, 2020
Twin Rock, LLC
Bret Saalsaa
7935 Almor Dr
Verona WI 53593

## RE: Navigability Determination - 2528 Spring Rose Rd, Section 18, Town of Verona

The Dane County Zoning Division has processed your request for a navigability and wetland determination for two intermittent streams and NRCS low spots that are located east of Spring Rose Road, south of Dairy Ridge Road, and north of US Highway 151 in the Town of Verona.

Before conducting the site inspection, the County G.I.S., aerial photography, and the Wisconsin Surface Water Data Viewer were used to determine the categorization of these intermittent streams. The map shows a waterway flowing southeast through parcels 060818386804, 060818381809,060818395018 , and 060818491100 , and converging with a waterway flowing east through parcels 060818390013 and 060818395018 . An intermittent stream is one that has a periodic or recurrent flow.

A site inspection was conducted on July 2, 2020. The entirety of both waterways was inspected within the area of interest. It was observed that through the entire course of both waterways any water flow can be described as sheet flow over land due to topography with no defined bed or bank, and no presence of water.

In addition there was no evidence of wetland characteristics at any of the NRCS defined low spots and soil mapping do not suggest the presence of wetlands. There were isolated upland areas containing puddles of standing water but these appeared to be the result of human manipulation and soil compaction.

After further review of the waterways, it has been determined that these intermittent streams are NOT navigable to a point downstream at least to the south side of the US Highway 151 right-ofway, and the area of interest does not contain wetlands.

This letter serves as notice that the future development that will occur on the above-described lots is NOT within the Shoreland Zoning District as defined under Chapter 11, Dane County Code of Ordinances.

I hope you find this information helpful. If you have any questions regarding this matter, or if I may be of further assistance, please feel free to contact me directly.

Sincerely,
Hans Hilbert
Assistant Zoning Administrator
Cc:
Land \& Water Resources
Adam Carrico


### 9.2 Stormwater Maintenance Agreement

## AGREEMENT FOR MAINTENANCE OF STORMWATER MANAGEMENT MEASURES

## RECITALS:

A. Twin Rock, LLC is the owner of property in the Town of Verona, County of Dane, State of Wisconsin, more particularly described on Exhibit A attached hereto ("Property").
B. The County requires Owner to record this Agreement regarding maintenance of stormwater management measures to be located on the Property. Owner agrees to maintain the stormwater management measures and to grant to the County the rights set forth below.

NOW, THEREFORE, in consideration of the agreement herein and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the owner agrees as follows:

1. Maintenance. Owner and its successors and assigns shall be responsible to repair and maintain the stormwater management measures located on the Property in good condition and in working order and such that the measures comply with approved plans on file with Dane County. Said maintenance shall be at the Owner's sole cost and expense. Owner will conduct such maintenance or repair work in accordance with all applicable laws, codes, regulations, and similar requirements. Specific maintenance tasks are more particularly described on Exhibit A.
2. Easement to County. If Owner fails to maintain the stormwater management

This space is reserved for recording data

Return to:<br>Dane County Land \& Water Resources<br>5201 Fen Oak Dr., Rm. 208<br>Madison, Wisconsin 53718

## Parcel Number(s):

0608-183-8681-0, 0608-183-8180-9 measures as required in Section 1, then County shall have the right, after providing Owner with written notice of the maintenance issue ("Maintenance Notice") and thirty (30) days to comply with the County's maintenance request, to enter the Property in order to conduct the maintenance specified in the Maintenance Notice. County will conduct such maintenance work in accordance with all applicable laws, codes, regulations, and similar requirements and will not unreasonably interfere with Owner's use of the Property. All costs and expenses incurred by the County in conducting such maintenance may be charged to the owner of the Property by placing the amount on the tax roll for the Property as a special assessment in accordance with Section 66.0703, Wis. Stats. and applicable portions of the Dane County Ordinances.
3. Term/Termination. The term of this Agreement shall commence on the date that this Agreement is recorded with the Register of Deeds Office for Dane County, Wisconsin, and except as otherwise herein specifically provided, shall continue in perpetuity. Notwithstanding the foregoing, this Agreement may be terminated by recording with the Register of Deeds Office for Dane County, Wisconsin, a written instrument of termination signed by the County and all of the then-owners of the Property.
4. Miscellaneous.
(a) Notices. Any notice, request or demand required or permitted under this Agreement shall be in writing and shall be deemed given when personally served or three (3) days after the same has been deposited with the United States Post Office, registered or certified mail, return receipt requested, postage prepaid and addressed as follows:

| If to Owner: | Twin Rock, LLC <br> Bret Saalsaa <br> 7935 Almor Drive <br> Verona, WI 53593 |
| :--- | :--- |
| If to County: | Dane County Land \& Water Resources Department <br> Water Resource Engineering Division |
|  | 5201 Fen Oak Drive, Room 208 |
|  | Madison, WI 53718 |

Any party may change its address for the receipt of notice by written notice to the other.
(b) Governing Law. This Agreement shall be governed and construed in accordance with the laws of the State of Wisconsin.
(c) Amendments or Further Agreements to be in Writing. This Agreement may not be modified in whole or in part unless such agreement is in writing and signed by all parties bound hereby.
(d) Covenants Running with the Land. All of the easements, restrictions, covenants and agreements set forth in this Agreement are intended to be and shall be construed as covenants running with the land, binding upon, inuring to the benefit of, and enforceable by the parties hereto and their respective successors and assigns.
(e) Partial Invalidity. If any provisions, or portions thereof, of this Agreement or the application thereof to any person or circumstance shall, to any extent, be invalid or unenforceable, the remainder of this Agreement, or the application of such provision, or portion thereof, to any other persons or circumstances shall not be affected thereby and each provision of this Agreement shall be valid and enforceable to the fullest extent permitted by law.
$\qquad$
Water Resource Engineering Division Staff Signature

Print or type name
State of WI, County of $\qquad$ ; Subscribed and sworn
before me on $\qquad$ by the above named person(s).

Notary Public
Print or type name: $\qquad$
My Commission Expires: $\qquad$
$\qquad$
Owner Signature

Print or type name

State of WI, County of $\qquad$ ; Subscribed and sworn before me on $\qquad$ by the above named person(s).

## Notary Public

Print or type name: $\qquad$
My Commission Expires: $\qquad$

DRAFTED BY: Adam Carrico, PE
Carrico Engineering and Consulting, Inc.
1926 N Kollath Rd
Verona, WI 53593
(608) 832-6352

## EXHIBITA

## LEGALDESCRIPIION

Part of the Northeast 1/4 and the Northwest 1/4 of the Southwest 1/4 of Section 18, Township 6 North, Range 8 East, Town of Verona, Dane County, Wisc onsin, being more partic ula lly desc ribed as follows:

Commencing at the North $1 / 4$ Comer of said Section 18; thence $S 00^{\circ} 25^{\prime} 07^{\prime \prime}$ E a long the east line of the Southwest 1/4, 525.90 feet to the point of beginning.

Thence continue $\mathbf{S O}^{\circ} 25^{\prime} 07$ " E, 797.85 feet to the So utheast Comer of the said Northeast 1/4 of Southwest 1/4; thence $N 88^{\circ} 05^{\prime} 08^{\prime \prime} W$ along the south line of the said Northeast $1 / 4$ and Northwest $1 / 4$ of the Southwest $1 / 4$, $2,551.11$ feet to the Southwest Comer of the said Northwest $1 / 4$ of the Southwest $1 / 4$; thence $N 00^{\circ} 27^{\prime} 49^{\prime \prime}$ E along the west line of the said Northwest $1 / 4$ of the Southwest $1 / 4,478.84$ to the south line of Lot 1 Certified Survey Map No. 15601; thence along said Lot 1 forthe next 2 courses $N 89^{\circ} 26^{\prime} 28^{\prime \prime} \mathrm{E}, 305.62$ feet; thence $\mathrm{N} 00^{\circ} 25^{\prime} 07^{\prime \prime} \mathrm{W}$, 342.54 feet to the centerline of Dairy Ridge Road; thence along said centerline for the next 5 courses $N 87^{\circ} 31^{\prime} 58^{\prime \prime}$ E, 244.19 feet; thence along an arc of a curve concaved southerly having a radius of $1,432.72$ feet and a long chord bearing and distance of S8641'34"E, 295.42 feet; thence $580^{\circ} 30^{\prime} 31^{\prime \prime} E, 152.52$ feet; thence along an arc of a curve concaved northeasterly having a radius of 2,863 .91 feet and a long chord bearing and distance of $S 84^{\circ} 16^{\prime} 28^{\prime \prime} E, 360.53$ feet; thence $S 87^{\circ} 52^{\prime} 35^{\prime \prime} E, 1,189.65$ feet to the point of beginning. This parcel contains $1,975,184$ sq. ft. or 45.34 acres.

## PERMANENTCOMPONENIS OF THE STORMWATER SYSTEM

The stormwater system consists of the following components:

- Wet Detention Basin

INSPECTION AND MAINTENANCE
All components of the sto mwater system shall be inspected at least semi-annually in early Spring and early Autumn. Repairs will be made whenever the performance of a stormwatercontrol structure iscompromised as described below. Stone will be added to the emergency overflow weirs/emergency spillways as needed. Responsible party shall maintain records of all inspections and maintenance activities.

## WETDEIENTION BASIN:

- Visually inspect the pond outlet struc ture(s) a nd perimeter semi-a nnually. All undesirable vegetation and volunteer tree growth shall be removed, including any in close proximity to the outlet structure.
- Check the outlet structure for deterioration ordamage, obstructions, sediment, and general operation.
- Check the condition at the receiving area/channels at the outlet and downstream from the release structures for stability a nd signs of erosion damage or sparse vegetation.
- Inspect the sediment depth once every five years.
- A topographic survey of the pond bottom and sediment depth shall be conducted when the average depth of the permanent pool is 3.5 feet or at the request of Dane County Land and Water Resources Department. The survey shall be of suffic ient detail so as to evaluate volume of accumulated sediment. Survey data shall be sealed by a registered land surveyor or engineer.
- Accumulated sediment in the permanent pool area, as identified by the topographic survey, shall be dredged and disposed offsite as required by Wisconsin Department of Natural Resources Technic al Sta ndard 1001 - Wet Detention Pond.
- Access to the pond must be maintained to perform inspection and maintenance activities.
- No plantings or structures of any kind are permitted within the retention pond a rea, without prior written approval of Dane County Land \& Water Resourc es Department.


## CHANGESTO STORMWATER FACIUTIES

All components of the sto mwater system shall remain as constructed. Any changes to the stormwater facilities shall be approved by the Dane County Land \& Water Resources Department and requires update to stormwater management plan.

## ACCESS TO STORMWATER FACILTIES

Access to stomwaterfacilities within Outlot 1 shall be accessed from Dairy Ridge Heights between Lots 9 and 10 within the 30 -foot-wide access easement.

### 9.3 Pre-Developed Drainage Map

### 9.4 Post-Developed Drainage Map

### 9.5 Construction Plans

## TOWN OF VERONA

## TO: Town Board of Supervisors

DATE: July 30, 2021
FROM: W. Christopher Barnes, Public Works Director

## SUBJECT: Paulson Road and Woods Road Speed Limit Revision

The Town of Verona adopts speed limits for town roads in accordance with Wisconsin Statue 346.57 which establishes limits and restrictions for specific road conditions. Chapter 5 of the town ordinances contains specific speed zones for a number of town roads. Currently, Chapter 5 is silent to the adopted speed on both Paulson Road and Woods Road. Currently, Woods Road is posted as 45 miles per hour speed limit as is the City of Madison section of Woods Road north of the town boundary. Adopting a 45 mile per hour speed limit on Woods Road will be in conformance with the existing signage. On Paulson Road, the Town of Springdale does not have a posted speed limit on their section of Paulson Road. Based on the existing road conditions, vertical curve, and number of driveways, a 45 mile per hour speed limit is reasonable and prudent for Paulson Road. Specifically, the chapter 5 ordinance change would be:

To 45 Miles per Hour: Woods Road from its intersection of County Trunk Highway PD to the southerly corporate limits of the City of Madison.

To 45 Miles per Hour: Paulson Road from the easterly corporate limits of the Town of Springdale to it intersection with Timber Lane.

Wisconsin Statues allow for towns to adopt speed limits and to lower speed limits from 55 miles per hour to 45 miles per hour based upon engineering judgement.

On June 27, 2021 the Public Works Committee reviewed this proposed change and passed a motion to recommend the speed limit change to the Board. It is recommended that the Town of Verona adopt a fixed and adopted speed limit on Paulson Road and on Woods Road as 45 mile per hour Wisconsin Statute provisions. Should you have any questions regarding this matter, please let me know.

## Speed Limit Adoption Locations



## Paulson Road

## TOWN OF VERONA

## TO: Town Board of Supervisors

DATE: September 2, 2021
FROM: W. Christopher Barnes, Public Works Director

## SUBJECT: Stony Ridge Circle Name Revisions

As part of the County Highway M (South Pleasant View Road) reconstruction process in 2018, the access for the northern end of Stony Ridge Circle was modified. This modification was predicated on the realignment of the Pleasant View Road/Stony Ridge Circle intersection such that a future traffic signal could be installed if warranted. The construction of this new road was assumed at the time to be named "Stony Ridge Circle" and was shown as such on the construction drawings (below). The existing northern end of Stony Ridge Circle was cut off from Pleasant View Road and thereby creating a dead-end street. A drawing of the area is attached.

In order to prevent confusion for emergency response services, Dane County requires that the new dead end of Stony Ridge Circle be re-named and the new northernly extension be officially named as Stony Ridge Circle. Based on the available road names through Dane County, the name of Sandy Ridge Court is available for this new name. Dane County staff have concurred with this new name. The name change will only impact one property and the new owners of the property have been notified of the impending change.

A resolution to make the appropriate name change is attached for consideration of the Board. If adopted, town staff will install new street name signs and make the appropriate changes to the Dane County mapping and land records. It is recommended that the Town of Verona adopt resolution 2021-07 to rename the created dead end portion of Stony Ridge Circle as Sandy Ridge Court and the newly constructed road as Stony Ridge Circle. Should you have any questions regarding this matter, please let me know.


Project Map of Stony Ridge Circle Area


## Resolution 2021-7

## A RESOLUTION TO RE-NAME A PORTION OF STONY RIDGE CIRCLE AND NAME A NEW ROADWAY CONSTRUCTED AS A RESULT OF THE COUNTY TRUNK HIGHWAY "M" PROJECT

WHEREAS, the construction of County Trunk Highway "M" also known as Pleasant View Road, changed the access points for Stony Ridge Circle and that the Town Board finds that it is necessary and in the public interest to alter the name of a portion of Stony Ridge Circle.

WHEREAS, a new roadway was built to access County Trunk Highway "M" approximately 250 feet north of the pre-existing Stony Ridge Circle to provide reasonable access for properties of Stony Ridge Circle and lands north of Stony Ridge Circle currently vacant.

WHEREAS, Dane County requires that the newly created dead end stub of pre-existing Stony Ridge Circle and the new road be named by the Town Board in order to avoid conflicting address assignments for parcels located adjacent to the roadways.

WHEREAS, the Town Board desires to rename the created dead end portion of pre-existing Stony Ridge Circle, which has a length of 240 feet, more or less, as Sandy Ridge Court and authorize Dane County and Town staff to make changes to the existing mapping, documents and road signage as may be necessary.

WHEREAS, the Town Board desires to name the newly constructed road, which has a length of 575 feet, more or less, as an extension of Stony Ridge Circle and authorize Dane County and Town staff to make changes to the existing mapping, documents, and road signage as may be necessary.

WHEREAS, the naming of the extension of Stony Ridge Circle located within the City of Verona shall be named by said City at such time is appropriate.

NOW, THEREFORE, BE IT RESOLVED, the created dead end portion of pre-existing Stony Ridge Circle shall be re-named as Sandy Ridge Court and the newly constructed road shall be named Stony Ridge Circle

BE IT FURTHER RESOLVED that these changes to the Town road network shall be submitted to the Wisconsin Department of Transportation for acceptance and inclusion into the road mileage certification program.

BE IT FINALLY RESOLVED that this resolution shall be effective upon adoption.
ADOPTED by the Town of Verona Board on the $\qquad$ day of $\qquad$ , 2021.

Mark Geller, Town Chair

This is to certify that the foregoing resolution was adopted by the Town of Verona Board on $\qquad$ , 2021.

Natural and Recreational Areas Committee
Proposed Priorities for 2021-22

## Town of Verona Board report - 7/29/21

1) Improve connections on Town recreational trails, including bike trails, hiking trails (especially Ice Age National Scenic Trail), and water trails along the Sugar River and Badger Mill Creek.
2) Develop a Town program to help larger landowners preserve their lands from development to include Purchase or Transfer of Development Rights (PDR/TDR) and Conservation Easements, and others. This will aid in helping the Town to preserve its "rural character".
3) Identify significant natural features and public lands on maps and website to help with landowner recognition and protection, and to help promote and guide recreational activities.
4) Watershed management - identify and support activities of the Upper Sugar River Watershed Association, and Badger Mill Creek restoration efforts particularly in the Goose Lake Area.
5) Develop an annual Town Prairie management plan and recruit Town citizens to help with it.

## Justification for this proposal

Two Town documents used in guiding the development of this list:
$>$ Town of Verona Comprehensive Plan 2018-2038
$>$ Town of Verona Natural and Recreational Areas Plan 2018-2023

NRA Plan page 5, Chapter 3 lists 6 broad goals to "guide the direction of NRAC in carrying out its mission".

1. Provide sufficient open space, park land, and recreational opportunities to meet the growing demand of Verona Area residents without adversely affecting existing natural areas.
2. Preserve for posterity the characteristics and diversity of the cultural, historical resources and natural areas of the Town of Verona.
3. Protect lakes, rivers and streams, including shorelines, wetlands, high infiltration areas and associated vegetative buffers to maintain high water quality, manage water quantity, and sustain water-related recreation throughout the Township.
4. Leverage the efforts of other entities to maximize the benefits for Town residents, Including Dane County, the City of Verona, and other neighboring communities, and private or non-profit organizations.
5. Recognize and respect the landowners who have been stewards of the land, in many cases for generations.
6. Identify shared concerns and work toward mutual goals.

NRA Plan, page 6, Chapter 4.1 Priorities:

1. Establish a Verona-wide bicycle-pedestrian trail system that connects neighboring communities and subdivisions with other public parks and regional trail systems. This supports a Dane County priority on off-road regional bicycle-pedestrian trail projects, especially trails close to major population centers or through areas targeted for development that are adjacent to urban areas, which can serve both commuter and recreation needs.
2. Complete the Ice Age National Scenic Trail through Verona in collaboration with Dane County Parks, the City of Verona, the National Park Service, the WDNR, and the Ice Age Trail Alliance.
3. Consider expansion of public land and public-access conservation easements to meet growing demands for trails and recreation.

NRA Plan, pages 7-14 Chapters 4.2 and 4.3 - numerous priorities and policies to deal with existing Natural and Recreational resources and Concerns about protecting them.

NRA Plan, page 15, Chapter 5 CONCLUSION
Nine items are listed as ways for the town to work with partner organizations to maintain and develop various Natural and Recreational areas. These include:
> Expand Prairie Moraine County Park and Madison School Forest
$>$ Promote bicycle and pedestrian trails throughout the Town
$>$ Promote the Ice Age Trail and work to complete it
$>$ Help organize a "Friends of Scheidegger Forest" volunteer group
> Enroll property owners to protect and manage the Town's private forests and woodlands
> Raise awareness of the importance of Badger Mill Creek and the Upper Sugar River as critical natural resources

Town of Verona Comprehensive Plan, pgs 48-50, chapter 7 Natural and Cultural Resources:
$>$ Goal 1: Encourage the maintenance of the natural and cultural resources of the Town
$>$ Goal 2: Provide for sufficient outdoor recreation areas to meet the needs of the Town
$>$ Goal 3: Complete the Gaps in the Ice Age National Scenic Trail

July 14, 2021

Mark Geller, Town Chair
Town of Verona
7669 County Highway PD
Verona, WI 53593

Dear Mr. Geller:


I am writing to respectfully request the town of Verona's participation in financially supporting the work of the Greater Madison MPO in 2022.

The agreement designating the current MPO as the regional transportation planning agency for the Madison metro area - approved in 2007 by municipalities making up over $75 \%$ of the population within the MPO planning area - maintains the same structure for staffing and funding the MPO as that outlined in the original 1999 redesignation agreement, which separated the MPO from the Regional Planning Commission. The MPO agreement calls for the City of Madison to be responsible for staffing the MPO and also for providing the local match funding generating the Federal and state funding the MPO receives, which covers around $84 \%$ of its budget. However, while the City of Madison is ultimately made responsible for the local share funding, the agreement states that "other local units of government are strongly encouraged to make proportionate contributions [based on their population] to cover a share of the local costs in support of the MPO."

Over the years, three communities (Fitchburg, McFarland, Monona) have consistently contributed to support the MPO, and that support is greatly appreciated. The City of Sun Prairie has made a partial contribution the past three years, and the City of Middleton has contributed in the past, but does not do so currently. The MPO has not sent out a request for support for quite some time, but is renewing this request again. Your municipality's requested contribution is based on population. For example, a community with 10,000 population is asked to contribute around $\$ 3,800$ per year.

Please consider the positive impact the MPO has on the region and the services the MPO does and can provide as you weigh whether to make a contribution in support of the MPO:

- The work of the MPO benefits all communities within the MPO planning area. The MPO leads the collaborative planning and funding of the regional transportation system, providing an important forum for decision making on regional transportation issues. Maintaining an MPO to lead regional transportation planning and programming of projects is a condition of receiving federal transportation funding. This includes the direct allocation to the MPO of $\$ 7$ million per year in STBG-Urban funding and $\$ 600,000$ in Transportation Alternatives Program funding for local projects within the Madison area. In 2021, a total of $\$ 60$ million in federal funding is programmed for transportation projects in the MPO Planning Area. These transportation projects foster economic development and improve the quality of life for all of the region's residents. MPO staff are also available to provide data and planning assistance to local communities, such as providing traffic forecasts for roadway projects and neighborhood development plans and assisting with planning for potential transit service. See this link to presentation on the MPO and the data and services the MPO can provide. The slides on the MPO start on page 41.
- The 2007 MPO redesignation agreement modified the composition of the MPO Policy Board to increase the representation of smaller cities and villages to reflect the expansion of the MPO planning area following the 2000 Census. Excluding the county, WisDOT, and transit agency appointments, communities within the MPO planning area are represented on the policy board in proportion to population. The board includes five (5) city of Madison representatives, three (3) from other cities and villages, and one representative from towns. Almost all of the cities and villages also have staff representatives on the MPO's Technical Coordinating Committee (TCC), and staff from all communities are welcome to attend and participate in TCC meetings.

As part of preparation of the 2022 budget, the MPO Policy Board respectfully requests each local unit of government within the metropolitan planning area to contribute a portion of the local share financing based on the community's proportionate share of the population within the Planning Area. The proportionate share is based on the estimated 2020 population, but will be updated following the release of the 2020 Census population numbers. The estimated local share of the 2022 MPO budget is $\$ 179,665$, not counting $\$ 5,000$ the MPO receives from the county each year to support specialization transportation coordination activities. This is a high level estimate based on the MPO's anticipated 2022 federal Planning funding. The MPO may not utilize all of the available funding. Attached is a table, which shows the population of each unit of government within the planning area and the proportionate share of the local match funding which would be attributed to the municipality. It also shows the anticipated contribution being made this year.

The MPO Policy Board would very much appreciate your including funding in your 2022 operating budget to support the MPO. Even if not the full proportionate share, any partial funding would be helpful as it will leverage additional federal funding. Just as important as the funding is the commitment that it signifies to working collaboratively with the MPO, other communities, and WisDOT in addressing regional transportation challenges. Thank you in advance for your consideration of this request. It would be helpful to know by August 16 if you will support its inclusion in your budget so that the MPO can indicate by that time its intent to WisDOT with regards to accepting all of its allocated funding. For those municipalities that indicate their support for making a contribution an invoice will be submitted next summer.

If you have any questions, please contact Bill Schaefer, the MPO's Director/Planning Manager (PH: 266-9115; Email: wschaefer@cityofmadison.com).

Sincerely,


Mark Opitz, Chair
Greater Madison MPO

Enclosure

Cc: Teresa Withee, Town Clerk

## Estimated Share of Estimated 2022 MPO Budget Based On

Est. 2020 Population ${ }^{1}$ of Muncipalities in the Greater Madison MPO Planning Area

| Municipality | Est. 2020 Population <br> Within MPO <br> Planning Area | \% of 2020 Pop. <br> Within MPO <br> Planning Area | Est. 2022 Budget $^{2}$ Estimated Share Local Participation | Anticipated Amount to be Contributed in 2021 |
| :---: | :---: | :---: | :---: | :---: |
| C. Madison | 257,197 | 53.0\% | \$95,186 | \$152,360 |
| C. Fitchburg | 30,391 | 6.3\% | \$11,247 | \$8,156 |
| C. Middleton | 21,050 | 4.3\% | \$7,790 | \$0 |
| C. Monona | 7,920 | 1.6\% | \$2,931 | \$2,545 |
| C. Stoughton | 12,954 | 2.7\% | \$4,794 | \$0 |
| C. Sun Prairie | 35,895 | 7.4\% | \$13,284 | \$3,000 |
| C. Verona | 12,737 | 2.6\% | \$4,714 | \$0 |
| Small Cities Total | 120,947 | 24.9\% | \$44,761 | \$13,701 |
| V. Cottage Grove | 6,716 | 1.4\% | \$2,486 | \$0 |
| V. Cross Plains | 4,010 | 0.8\% | \$1,484 | \$0 |
| V. DeForest | 10,624 | 2.2\% | \$3,932 | \$0 |
| V. Maple Bluff | 1,285 | 0.3\% | \$476 | \$0 |
| V. McFarland | 8,952 | 1.8\% | \$3,313 | \$2,544 |
| V. Oregon | 10,270 | 2.1\% | \$3,801 | \$0 |
| V. Shorewood Hills | 2,363 | 0.5\% | \$875 | \$0 |
| V. Waunakee | 12,097 | 2.5\% | \$4,477 | \$0 |
| V. Windsor (part) (76.5\%) | 6,304 | 1.3\% | \$2,333 | \$0 |
| Villages Total | 62,621 | 12.9\% | \$23,175 | \$2,544 |
| T. Berry (part) (24.9\%) | 290 | 0.1\% | \$107 | \$0 |
| T. Blooming Grove | 1,616 | 0.3\% | \$598 | \$0 |
| T. Bristol (part) (72.4\%) | 3,147 | 0.6\% | \$1,165 | \$0 |
| T. Burke | 3,303 | 0.7\% | \$1,222 | \$0 |
| T. Cottage Grove (part) (81.9\%) | 3,185 | 0.7\% | \$1,179 | \$0 |
| T. Cross Plains (part) (30.9\%) | 1,239 | 0.3\% | \$459 | \$0 |
| T. Dunkirk (part) (65.1\%) | 1,243 | 0.3\% | \$460 | \$0 |
| T. Dunn (part) (89.8\%) | 4,357 | 0.9\% | \$1,612 | \$0 |
| T. Madison | 6,228 | 1.3\% | \$2,305 | \$0 |
| T. Middleton | 6,614 | 1.4\% | \$2,448 | \$0 |
| T. Oregon (part) (45.2\%) | 1,464 | 0.3\% | \$542 | \$0 |
| T. Pleasant Springs (part) (65.1\%) | 2,085 | 0.4\% | \$772 | \$0 |
| T. Rutland (part) (36.2\%) | 728 | 0.1\% | \$269 | \$0 |
| T. Springfield (part) (50.5\%) | 1,482 | 0.3\% | \$548 | \$0 |
| T. Sun Prairie (part) (66.9\%) | 1,594 | 0.3\% | \$590 | \$0 |
| T. Verona (part) (80.8\%) | 1,334 | 0.3\% | \$494 | \$0 |
| T. Vienna (part) (67.7\%) | 1,042 | 0.2\% | \$386 | \$0 |
| T. Westport | 4,038 | 0.8\% | \$1,494 | \$0 |
| Towns Total | 44,699 | 9.2\% | \$16,543 | \$0 |
| Total for MPO Planning Area | 485,464 |  | \$179,665 | \$168,605 |

[^2]Planning

TO: Dane County Board of Supervisors
Town Supervisors and Planning Commissioners
County Executive Joe Parisi
Town Boards and Planning Commissions
FROM: Pamela Andros, AICP, Senior Planner
SUBJECT: 2021-OA-002 Amending Chapter 10 of the Dane County Code of Ordinances, Revising Various Sign Regulation Provisions.

DATE: May 13, 2021
CC: Todd Violante, Director of Planning and Development
Roger Lane, Zoning Administrator
Karin Thurlow-Peterson, County Board Office

## I. Summary

2021-OA-002 would make a number of corrections and revisions to signs portion of the Dane County Zoning Ordinance (Chapter 10, Dane County Code), which was comprehensively revised in January of 2019. Amendments include corrections and changes recommended by Planning and Development staff after some experience working with the new zoning code.
II. Background
A. Ordinance Amended

If adopted, 2021-OA-002 would amend the text of the Dane County Zoning Ordinance (Chapter 10, Dane County Code).
B. Action Required

Under s. 59.69(5) of the Wisconsin Statutes, town boards in towns that have adopted the county zoning ordinance will have 30 days from the ZLR public hearing to vote on 2021-OA-002. By the 7/27/2021 public hearing, 26 towns are expected to have adopted the county zoning ordinance. If, by $8 / 28 / 2021$, fourteen (14) town boards vote to disapprove, the county board cannot adopt the ordinance amendment, and must either deny or adopt with modifications. If the county board adopts with modifications, town boards will have an additional 45 days for final approval.

The Zoning \& Land Regulation Committee Public Hearing on OA \#002 will be July 27, 2021. Town action on OA \#002 is due to the zoning office by August 28, 2021.

## III. Discussion

2021-OA-002 would make the following changes to Chapter 10.
A. Policy changes.

- ARTICLE 4. Change the display period allowed for temporary signs from 60 days to 30 days.
- ARTICLE 5. Make a number of changes to the dimension and location standards for wall signs. Changes made within the rural mixed-use and transitional rural mixed-use zoning districts were changed to be more consistent with one another, and the maximum area allowed in the residential and hamlet districts were reduced to a much more reasonable size. Clarify design standards for wall signs.
B. Changes to restore standards that existed in previous versions of Chapter 10.
- ARTICLE 2. Adding definitions for home occupation signs, limited family business signs, mobile signs, subdivision signs; and removing outdated references to a road classification system.
C. Clarifications, corrections and technical amendments with minimal policy impact.
- ARTICLES 2 \& 3. Renumbering definitions as needed, improve definition of "vision clearance triangle", and adding a reference to illustrations.
- ARTICLE 5. Move design standards for projecting signs to Article 6, and add reference to Appendix.
- ARTICLE 6. Add design standards for projecting signs that were moved from Article 5.
- ARTICLE 7. Add requirement that all existing and proposed signs need to be shown on the site plan submitted as part of the materials required in an application for a sign permit.


## 2021 OA-002

## AMENDING CHAPTER 10 THE DANE COUNTY CODE OF ORDINANCES, REVISING VARIOUS SIGN REGULATION PROVISIONS

The County Board of Supervisors of the County of Dane does ordain as follows:
ARTICLE 1. Unless otherwise expressly stated herein, all references to section and chapter numbers are to those of the Dane County Code of Ordinances.

ARTICLE 2. Section 10.801 is amended and renumbered to read as follows:

### 10.801 DEFINITIONS.

As used in this section, the following words shall have the definitions indicated:
(16m) Home occupation sign. A sign which advertises a permitted home occupation.
(17m) Limited family business sign. A sign which advertises a permitted limited family business.
(20) Mobile sign. Signs attached to or painted on vehicles/trailers and parked in a position and location with the primary purpose of displaying the sign.
(28) Road classification. The system of classifying roads, according to the following:
(a) Class A All federal and state highways and designated county highways.
(b) Class B - All county highways except those designated as class A.
(c) Class $C$ - All town roads.
(32) Subdivision sign. A permanently installed sign located on the subdivision property which identifies the subdivision name.
(332) Temporary signs. Signs which are installed for a limited time period for any purpose. A permanently mounted sign shall not be considered as temporary even though the message displayed is subject to periodic changes.
(343) Trim. A separate border or framing around the copy area of a sign.
(354) V-shaped frame. A sign support structure which will accommodate two signs in a back-to-back position with one end of each sign mounted on a common support with the other sign. The other ends of the signs are mounted on separate, individual supports.
(365) Vehicle sign. Vehicles with signs mounted or painted on them parked offpremise for the purpose of advertising rather than transportation.
(376) Vision clearance triangle. An unoccupied triangular space at an intersection. The triangle is formed by connecting the point where each right-of-way line intersects and two points located at a distance equal to the building right-of-way setback distance along each right-of-way line. See Sign Illustrations in Appendix. (387) Wall sign. A sign mounted on and parallel to a building wall or other vertical building surface. Signs on the sides of a service station pump island roof structure shall be considered wall signs.

ARTICLE 3. Sections 10.802(4) - (6) are renumbered to read as follows: (3)(4) Location standards for all signs.
(a) View blockage. No sign shall be placed in a way that blocks any part of a driver's or pedestrian's vision of the road, road intersection, crosswalk, vision clearance triangle, authorized traffic sign or device, or any other public transportation mechanism.
(b) Driveway blockage. No sign may block or interfere with the visibility for ingress or egress of a driveway. All signs, except auxiliary signs, if within 20 feet of driveway ingress or egress, shall provide a minimum of 6 feet of clearance between ground level and the bottom edge of the sign.
(c) Vision triangle. No sign shall be located within a vision clearance triangle.
(d) Road right-of-way setback requirements.

1. No sign shall be located within a road right-of-way.
2. All signs shall be setback not less than 5 feet from the right-of-way line, the property line, or permanent highway easement, whichever is greater.
(e) Side and rear yard setback requirements. All signs shall be setback not less than 5 feet from any side or rear yard, the right-of-way line, property line, or permanent highway easement, whichever is greater.
(f) Billboards may not be located within 300 feet of an existing on-premise sign or within 1,000 feet of other billboard signs.
(g) Off-premise sign may not be installed within the limits of a curve.
(h) Projecting signs may not be located directly over a public or private street, drive or parking area.
(i) Off-Premise signs may not be located within 300 feet of on-premise advertising signs.
(j) On-Premise Advertising Wall Signs shall be mounted flush against the dwelling or building in which the business is located.
(k) Buildings which contain multiple businesses shall share the maximum wall sign allowance by dividing the maximum area by the number of proposed businesses. All business may be afforded a maximum wall sign of 20 square feet, if greater than the maximum wall sign limit for the building.
(I) No sign shall be installed on a roof.
(m) No sign may be located within a permanently protected green space area or mapped wetland area.
(4)(5) Design standards.
(a) No sign shall use any word, phrase, symbol, shape, form or character in such manner as to interfere with moving traffic, including signs which incorporate typical street-type or traffic control-type sign designs and colors. No sign may be installed at any location where by reason of its position, wording, illumination, size, shape or color it may obstruct, impair, obscure, interfere with the view of, or be confused with, any official traffic control sign, signal or device.
(b) Signs, as permitted, shall be professionally designed, constructed and installed.
(c) Graphics. The lettering on a sign shall be clearly legible and in scale with the sign surface upon which it is placed.
(d) Materials. Signs shall be constructed of materials which are of appropriate quality and durability.
(e) Smooth sign face. No nails, tacks or wires shall be permitted to protrude from the front of the sign.
(f) Illumination. All externally illuminated signs shall comply with the following standards.
3. Light, number and direction. Signs that are illuminated from an external source shall have a maximum of 4 external lights directed at only the copy area from a downward angle attached to the top of the sign or sign structure. No externally illuminated sign shall be up-lit or utilize light directed from the ground towards the copy area.
4. Glare. Light sources shall be effectively shielded to prevent beams or rays of light from being directed at any portion of a road or right-of-way that are of such intensity or brilliance as to cause glare or impair the vision of the driver of a motor vehicle, or that otherwise interfere with any driver's operation of a motor vehicle.
5. All light sources to illuminate signs, internal or external, shall be shielded from all adjacent buildings and rights-of-way. Light sources shall not be of such brightness so as to cause glare hazardous to the motoring public or adjacent buildings.
6. No sign shall use flashing, moving, reflecting, or changing light sources. Illuminated signs or lighting devices shall employ only a light of constant intensity.
(g) Electronic message sign design. Changing copy and electronic message signs must meet the following requirements.
7. On-premises ground and pylon signs shall be the only type of sign that may incorporate electronic message components to the sign's copy area.
8. Electronic message boards are prohibited on the exterior walls of buildings.
9. The electronic message shall not be changed more than once every 6 seconds.
10. Malfunction. In the event of a malfunction in any portion of the electronic message sign, the sign shall be turned off upon malfunction until the malfunction is corrected.
11. Nits. Electronic message sign copy areas shall not exceed a maximum illumination of 5000 nits during daylight hours and 500 nits between dusk to dawn as measured from the sign's face at maximum brightness.
12. Dimming. All electronic message signs shall be equipped with and shall use photosensitive mechanisms to automatically adjust sign brightness and contrast based on ambient light conditions.
(5)(6) Maintenance.
(a) All signs within the jurisdiction of this ordinance shall remain in a state of proper maintenance. Proper maintenance shall be the absence of loose materials including peeling paint, paper or other material, prevention of excessive rust, the prevention of excessive vibration or shaking and the maintenance of the original structural integrity of the sign, frame and other supports, its mounting and all components thereof.
(b) Signs found to be in violation of the provisions of this section shall be repaired or removed.

ARTICLE 4. Section 10.803(3)(f) is amended to read as follows:

### 10.803 SIGNS ALLOWED WITHOUT A PERMIT.

(3) Temporary signs.
(f) Display period. Signs are limited to a period of $6 \underline{3} 0$ days two times per year. The 630-day periods shall not run concurrently.

ARTICLE 5. Section 10.804(6) is amended to read as follows:
10.804 SIGNS ALLOWED WITH A PERMIT. The following signs may be permitted in certain zoning districts as shown in the following Table 1 subject to the approval of a zoning permit and the sign design limitations applicable to each type of sign.
(6) On-premise wall signs. Wall signs are subject to the design standards of the following Table 4.
(a) Table 4: Dimension and Location Standards for Wall Signs.

TABLE 4

| Use | $\begin{gathered} \text { Zonin } \\ g \\ \text { Distric } \\ \mathrm{t} \end{gathered}$ | Maximum Area (sq. ft.) |  | Maximum Height (sq. ft.) |  | Number of Signs <br> Permitted per Building <br> Number of road <br> frontages on zoning lot |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\begin{aligned} & 0-45 \\ & \mathrm{mph} \\ & \hline \end{aligned}$ | $\begin{aligned} & 46+ \\ & \mathrm{mph} \\ & \hline \end{aligned}$ | $\begin{aligned} & 0-45 \\ & \mathrm{mph} \\ & \hline \end{aligned}$ | $\begin{gathered} 46+ \\ \mathrm{mph}^{*} \end{gathered}$ | 1 | 2** | 3** |
| Recreational | RE | 100 | 300 | 20 | 50 | 2 | 3 | 4 |
| Farmland Preservation | FP-B | 100 | 300 | 20 | 50 | 2 | 3 | 4 |
|  <br> Transitional Rural Mixed Use \& Transitional | AT-35 | 100 | 300 | 20 | 50 | 2 | 3 | 4 |
|  | AT-5 | 100 | 3100 | 20 | 520 | 2 | 32 | 42 |
|  | AT-B | 100 | 300 | 20 | 50 | 2 | 3 | 4 |
|  | RM-8 | 100 | 100 | 20 | 20 | 2 | 32 | 42 |
|  | $\begin{aligned} & \hline \text { RM- } \\ & 16 \\ & \hline \end{aligned}$ | 100 | 3100 | 20 | 520 | 2 | 32 | $4 \underline{2}$ |
| Rural Residential | RR-1 | 32100 | 32100 | 20 | 20 | 12 | 32 | 42 |
|  | RR-2 | $\underline{32100}$ | $\underline{32100}$ | 20 | 20 | 12 | 32 | 42 |
|  | RR-4 | 32100 | 32100 | 20 | 20 | 12 | 32 | 42 |
|  | RR-8 | 32100 | 32100 | 20 | 20 | 12 | 32 | $4 \underline{2}$ |
| Residential | $\begin{aligned} & \text { SFR- } \\ & 08 \end{aligned}$ | $\underline{32100}$ | 32100 | 20 | 20 | 12 | 32 | $4 \underline{2}$ |
|  | SFR-1 | 32100 | 32100 | 20 | 20 | 12 | 32 | $4 \underline{2}$ |
|  | $\begin{aligned} & \text { TFR- } \\ & 08 \\ & \hline \end{aligned}$ | $\underline{32100}$ | 32100 | 20 | 20 | 2 | 3 | 4 |
|  | $\begin{aligned} & \text { MFR- } \\ & 08 \\ & \hline \end{aligned}$ | $\underline{32100}$ | 32100 | 20 | 20 | 2 | 3 | 4 |
| Hamlet | HAM- $\mathrm{R}$ | $\underline{32100}$ | 32300 | 20 | 520 | 2 | 3 | 4 |
|  | HAMM | 100 | 3100 | 20 | 520 | 2 | 3 | 4 |


| Commercial | LC, <br> GC, <br> HC | 100 | 300 | 20 | 50 | 2 | 3 | 4 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :---: |
| Processing, <br> Manufacturing <br> \& Industrial | RI, MI | 100 | 300 | 20 | 50 | 2 | 3 | 4 |
| Special Use |  | PUD | Determined as part of site plan review by Z.A. |  |  |  |  |  |
|  | $*$ | For buildings 6 stories or more in height, a wall sign may also be <br> located within 20 feet of the top of the building. |  |  |  |  |  |  |
|  | $* *$ | The maximum size and height of signs on zoning lots with 2 or more <br> road frontages shall be determined by reference to the nearest <br> adjacent road. |  |  |  |  |  |  |

In no event shall there be more than two walls signs on any one side of the building. Wall signs shall be located only on the building containing the business advertised on the sign.
(b) Design standards.

1. Wall Signs. Wall signs shall not project more than 1 foot from the building wall to which it is attached and shall be set back from the end of the building, or party wall line for a distance of at least 3 feet and shall not project above the building wall. Wall signs may be internally or externally illuminated only in the $\mathrm{GC}, \mathrm{HC}$ and Ml zoning districts.
2. Projecting signs shall have a maximum size of 21 square feet and be installed to a height not to exceed 15 feet. Such signs shall be located on the building containing the business advertised on the sign. Projecting signs shall not extend more than 3 feet from the face of a building and the lowest portion of such signs shall not be less than 8 feet above the finished grade of a sidewalk or other pedestrian way.
3. Sign Regulations. See Appendix - Table 4.

ARTICLE 6. Sections 10.804(9) - (12) are created to read as follows:
(9) Subdivision signs.
(a) Shall comply with the location standards of this ordinance.
(b) Shall have a maximum size of 32 square feet and be erected to a height not to exceed 6 feet.
(c) Shall be limited to one subdivision sign per subdivision.
(10) Projecting signs shall have a maximum size of 21 square feet and be installed to a height not to exceed 15 feet. Such signs shall be located on the building containing the business advertised on the sign. Projecting signs shall not extend more than 3 feet from the face of a building and the lowest portion of such signs shall not be less than 8 feet above the finished grade of a sidewalk or other pedestrian way.
(11) Home occupation signs shall have a maximum size of 2 square feet and shall be located on the premises of the business advertised on the sign.
(12) Limited family signs. A maximum of two on-premise signs are permitted.
(a) One wall sign shall be limited to a maximum size of 12 square feet erected to a height not to exceed 8 feet. Such sign shall be located on the building in which the business advertised on the sign is located.
(b) One ground sign shall be a driveway entrance sign limited to a maximum size of 16 square feet and a maximum height of 8 feet.

ARTICLE 7. Section 10.806(2)(a)2. is amended to read as follows:
10.806 ADMINISTRATION.
(2) Applications and Permits.
(a) Required materials to be submitted for sign permit applications:

1. Completed application form.
2. Site Plan. The location of all buildings on the lot shall be provided. The locations of all existing and proposed signs shall be provided. Distance of the proposed sign to property lines shall be provided. Dimensions of the property lines shall be provided. Site plan shall be drawn to scale using an architect's scale (i.e. $1 / 8$ " = 1'0") or engineers scale (i.e. $1^{\prime \prime}=10^{\prime}$ ).
[EXPLANATION: On January 17, 2019 Dane County adopted a Comprehensive Revision of its Zoning Code. This amendment adopts multiple revisions to the Sign Regulations subchapter of the Zoning Code.]

# Dane County Towns Association 

Advocate for Town Government
Established 1972
danecotowns.net


To: Pam Andros, Senior Planner, Dane County
From: Dane County Towns Association (DCTA) Executive Board
Date: 7/26/2021
Re: Comments Regarding 2021-OA-002 Amending Chapter 10 of the Dane County Code of Ordinances, Revising Sign Regulation Provisions

The DCTA Executive Board has reviewed the proposed changes to the Sign Ordinance and has the following comments/questions:

1) Can you share the rationale behind the addition of content-based definitions for subdivision, home occupation, and limited family signs? In an April 4, 2018 review of this Sign Ordinance that was shared with Dane County staff, DCTA Attorney Eric Larson recommended against content-based definitions because of issues related to compliance with current law. It appeared that these and other content-based definitions were removed from the proposed ordinance at that time.
2) The new definition of a mobile sign is very similar to the existing definition of vehicle sign. Can you explain the need for both definitions?
3) Table 4 (line 153 of the OA ) shows what some may consider significant reductions in maximum sign areas.

AT-5 and RM-16 are reduced from $\mathbf{3 0 0}$ to $\mathbf{1 0 0} \mathbf{s q} \mathbf{f t}$ and height is reduced from 50 ft to 20 ft and the number of signs allowed per building are reduced.

All Rural Residential and Residential (RR-1, RR-2, RR-4, RR-8, SFR-08, SFR-1, TFR-08, MFR-08) are reduced from $\mathbf{1 0 0} \mathbf{s q}$ feet to $\mathbf{3 2} \mathbf{s q} \mathbf{f t}$ and the number of signs allowed per building are reduced.

The May 13, 2021 memo from Pamela Andros, Senior Planner explaining the proposed changes states "the maximum area allowed in the residential and hamlet districts were reduced to a much more reasonable size." Can you explain the determination of "more reasonable size" and the reason for this reduction? Were complaints or issues reported to Dane County?
4) Can you describe the process for existing signs that will be considered nonconforming if the proposed reductions are approved? Specifically, what will be the process for a nonconforming sign that needs to be replaced or repaired?
5) Proposed changes include a reduction in the time allowed for temporary signs from 60 days to 30 days. Why is this change needed? How will this impact signs for temporary farm stands that
sell produce for the entire summer (more than the 30 days two times per year proposed restriction)?

Additionally, line 141 of the proposed OA states that "periods shall not run concurrently". Please review the intent of this restriction and the definition of "concurrent". "Consecutively" may be a more appropriate term.
6) It is not clear which zoning districts will allow subdivision signs. Table 1 allows residential zoning districts to have only signs associated with a conditional use - probably not applicable to a subdivision. Subdivisions may have outlots zoned as NR-C but Table 1 does not allow signs in the NR-C district.
7) Chapter 10 Appendix: the SFR-2 and RR-16 districts probably should be added to these tables for signs: Table 1, Table 2, and Table 4.


[^0]:    
    Sarah Gaskell, Plamer/Administrator, Town of Verona
    7609 County Highway PD, Verona, wi 53583-1035
    sgaskell@town.verona.wi.us
    A pro application meeting or initial review may be scheduled with Town Staff andfor Plan Commission Chair if you have questions or concems. Please call 608.845 .7187 with questions.

[^1]:    

[^2]:    ${ }^{1}$ January 1, 2020 Estimate by WisDOA, Demographic Services Center
    ${ }^{2}$ Estimated based on anticipated federal funding and required local matching funding. Represents max. amount. Assumes Dane County continues to provide $\$ 5,000$ per annual agreement with city to support specialized transportation coordination services.

