VILLAGE OF NEW GLARUS - VILLAGE BOARD PROCEEDINGS REGULAR MEETING
Village Hall Community Room
319 2nd Street New Glarus, WI
3/21/23 7:00 P.M.

7:00 P.M. Regular Meeting	Page #
1. Call to Order – Please Silence All Cell Phones	
2. Approval of agenda	
3. Public appearances and citizen comments on items not listed on this agenda. [Items will not be debated or acted upon at this meeting but will be referred to the proper staff/committee if action is required.] – *Please keep comments to 3 minutes*	
4. Approval of Consent Agenda:	
A. Approval of Minutes of 3/7/23 Regular Meeting	
B. Approval of Claims	
C. February 2023 Building Inspection Report	
5. New Business	
A. Consideration/Discussion: Approval of Operator License - Charlene Hoffman	
B. Consideration/Discussion: Denial of Operator License - Samantha Goodman	
C. Consideration/Discussion: Reschedule Next Village Board Meeting	
D. Consideration/Discussion: 11/15/22 Regular Meeting Minutes Correction	
E. Consideration/Discussion: 2023 Capital Projects List	
F. Consideration/Discussion: Holmes Preliminary and Final Plats, Airport Road, Parcel 2302401831000	
G. Consideration/Discussion: Resolution 23-04 3rd Avenue Reconstruction Project Preliminary Resolution Relating to Special Assessment Charges	
H. Consideration/Discussion: New Glarus Brewing Company Warehouse Addition Site Plan, 2400 WI-69	
I. Consideration/Discussion: Water Tower Engineering Services Qualifications-Based Selection Process	
6. Parks and Recreation	
7. Public Works and Safety:	
A. Consideration/Discussion: Lead Line Replacement Project	
B. Consideration/Discussion: Electric Rate Case Study	
8. Personnel and Finance	
9. President's Report	
10. Adjournment	

Roger Truttmann, President
AGENDA POSTED: N.G. Village Hall, N.G. Post Office, Bank of New Glarus – 3/17/23

Kelsey Jenson, Clerk

PERSONS REQUIRING ADDITIONAL SERVICES TO PARTICIPATE IN A PUBLIC MEETING MAY CONTACT THE VILLAGE CLERK FOR ASSISTANCE AT 527-2510

Village Board Meeting Notes

March 21, 2023

Consent Agenda

Approval of Minutes of 3/7 Regular meeting: The regular minutes are included in the packet for consideration.

Approval of Claims: The claims lists are included in your packet and include: ACH, E-check and JE for payroll expenses, health and life insurance, utilities and credit card statement totaling $66,401.89; payroll vouchers 17089 to 17122 totaling $32,144.85; and checks 41810 to 41861 totaling $133,225.29.

New Business

Consideration/Discussion: **Approval of Operator License – Charlene Hoffman:** The application has been reviewed by staff and recommended for approval by the Public Works/Public Safety Committee at their March 13, 2023 meeting.

Consideration/Discussion: **Denial of Operator License – Samantha Goodman:** The application is enclosed and has been reviewed by staff and recommended for denial by the Public Works/Public Safety Committee at their March 13, 2023 meeting.

Consideration/Discussion: **Reschedule Next Village Board Meeting:** The next Village Board meeting falls on April 4, which is Election Day. The Village Board could consider rescheduling the next meeting for Wednesday, April 5 at 7:00 PM.

Consideration/Discussion: 11/15/22 Regular Meeting Minutes Correction: Residents of the 3rd Avenue neighborhood pointed out at the last Village Board meeting and in subsequent letters that the minutes from the November 15, 2022 meeting included a motion to not include sidewalks in the 3rd Avenue reconstruction project. This meeting was recorded and posted online, so staff reviewed the video and found that the motion documented in the minutes had a mistake in it. It should read "no sidewalks on the north side of 3rd Avenue." The corrected minutes are enclosed.

Consideration/Discussion: **2023 Capital Projects List:** The Village will have funds from 2023 borrowing, unspent bond proceeds, and COVID relief funds (American Rescue Plan Act). The memo enclosed provides a proposed list of projects for the Village Board's consideration.

Consideration/Discussion: **Holmes Preliminary and Final Plats, Airport Road, Parcel 2302401831000:** The Joint Extraterritorial Zoning Commission will hold a public hearing on March 21, 2023 at 6:00 PM and provide a recommendation to the Village Board. The preliminary and final plat and associated materials are enclosed. The Village's Planning Consultant Mark Roffers reviewed the materials and recommended approval contingent upon a few conditions listed in the memorandum.

Consideration/Discussion: Resolution 23-04 3rd Avenue Reconstruction Project Preliminary Resolution Relating to Special Assessment Charges: The 3rd Avenue Reconstruction Project will include the issuance of special assessments to property owners for certain improvements. This resolution allows the Village Engineer to finalize the engineering report and proceed to the special assessment public hearing. This resolution does not approve any special assessments; it is simply an administrative requirement to proceed to the public hearing in April.

Consideration/Discussion: **New Glarus Brewing Company Warehouse Addition Site Plan, 2400 WI-69:** The site plan application, stormwater memorandum, and associated materials are enclosed. The Village

Engineer's report is also included and recommends approval contingent on Village and State permit approvals. The Plan Commission reviewed at their March 15, 2023 meeting and recommended approval.

Consideration/Discussion: **Water Tower Engineering Services Qualifications-Based Selection Process:** The federal funding for the Water Tower project requires the Village to go through a qualifications-based selection process for engineering services. The Village can determine how formal of a process they want to pursue. Staff recommend sending out a letter to engineering firms requesting their qualifications for this project. Then staff can recommend a selected firm to the Public Works/Public Safety Committee, which can recommend to the Village Board for final approval.

Public Works and Safety

Consideration/Discussion: Lead Line Replacement: As discussed at a previous meeting, the Village was awarded principal forgiven financial assistance from the DNR for lead line replacements. The Village replaced 5 lead lines in the fall and just completed the final 17 lead line replacements. The total financial assistance totaled to $165,500. The final project cost exceeded that amount by $6,200. The remaining amount can be paid for through the water utility or ARPA funds. The Public Works/Public Safety discussed this at their March 13, 2023 meeting.

Consideration/Discussion: Electric Rate Case Study: Now that the new electric substation is constructed and operational, the Village will need to conduct a new electric rate case to determine rates for utility customers. WPPI will perform this rate case and bring the study back to the Village Board for review. It will then be submitted to the Public Service Commission (PSC) for approval, which can take six to nine months. The Public Works/Public Safety reviewed the proposal to move forward with the rate case study at their March 13, 2023 meeting and recommended approval.

VILLAGE BOARD PROCEEDINGS
VILLAGE OF NEW GLARUS
3/7/2023

REGULAR MEETING-CALL TO ORDER: President Truttmann called the regular meeting to order at 7:05pm: PRESENT: Chuck Phillipson, Michael Bell, Mike Marty, Peggy Kruse, and Roger Truttmann. EXECUSED: Henry Janisch. ALSO PRESENT: Linda Hilland, Kelvin Klassy, Jack Rodeghier, Karen Rodeghier, Jenny Sies, Nick Sies, Ron Kittleson, Roselie Huntington, Danielle Tonn, Linda McGuigan, Kathy Brectman, Amy Trumble (Library Director), Joe Cockroft (Public Works Director), Lauren Freeman (Village Administrator), Karl Frantz (Interim Administrator).

APPROVAL OF AGENDA: Motion by Peggy Kruse, second by Michael Bell, to approve the 3.7.23 agenda. Motion carried (5-0).

PUBLIC APPEARANCES AND CITIZEN COMMENTS:
None.

CONSENT AGENDA: Motion by Michael Bell for approval of the consent agenda, second by Chuck Phillipson. Motion carried (5-0).

APPROVAL OF MINUTES OF 2/21/2023 Regular Meeting

APPROVAL OF CLAIMS: The claims lists were presented to the Board and include: ACH's for payroll benefits and February retirement; JE for utilities; payroll vouchers 17065 to 17088 totaling $29,990.94 and checks 41787 to 41809 totaling $110,032.50.

APPROVAL OF OPERATOR LICENSE: Karen Rodeghier, Staff reviews have been completed.

NEW BUSINESS

Consideration of Tabled Motion: Approval of a Class A Liquor License to Lollygag Antiques LLC:
Motion by Michael Bell to remove item from table, second by Peggy Kruse. Motion carried (5-0). Motion by Michael Bell to approve, second by Chuck Phillipson. Motion carries (5-0).

Consideration/Discussion: 3rd Avenue Project Including Resident Concerns:

A group of neighborhood residents on or adjacent to the 3rd Avenue reconstruction project were present at the meeting and provided questions and comments for the Village Board's consideration. One of the residents, Linda Hilland, asked several questions. The first discussion centered around why sidewalks were included in the project on the south side but not the north side. Several neighborhood residents expressed concern about drainage issues and pooling on their street and yards, and they are concerned this water would damage the new sidewalks.

Hilland also noted that the November 15 minutes did not include a motion to include sidewalks on the south side. Several board members noted they believed that decision was made at a January meeting not November. Peggy Kruse stated that she had seen the amount of water that drains through the neighborhood and is concerned about adding sidewalks. Pat Rank, the Village Engineer, stated that sidewalks would likely last even with the water problem and that the sidewalks will be constructed on higher ground, allowing better drainage, and the new storm sewer will help but not solve the drainage issues. Hilland asked if the tree and grass removal will increase runoff issues and Rank stated the impact would be minimal. Another resident asked about the sidewalk base, and Public Works Director Joe Cockroft stated they used geogrid borings to determine soils needed for the base. Another resident asked if Heidi Court is part of the project, Pat Rank stated Heidi Court is not but the intersection of Heidi and 3rd Avenue is included in the alternate bid. Peggy Kruse stated that she feels 3rd Avenue is unique enough to not include sidewalks due to the ongoing water issues. Mike Marty provides support for sidewalks, stating that consistent sidewalks help the Village become more pedestrian friendly and promotes connectivity, which are important for continued growth in the Village. Hilland asked about financing and whether this project would impact taxes. Village Administrator Lauren Freeman provided an overview on the Village's financing options, which intends to keep the property tax levy stable. There was additional discussion on the possibility of an overlay/wedging for streets in this neighborhood not getting attention, and Cockroft said that could be considered. Hilland asked if instead of sidewalk if there could be a bike and pedestrian lane, Cockroft stated there were safety issues with that approach. Residents stated there have been an increase in semi traffic, which continue to deteriorate the roads. Hilland asked whether there were grants the Village could apply for this project, Freeman stated that the Village is always looking for grants to apply for but it would be unlikely to receive a grant for 2023 construction. The Village Board continued to discuss whether sidewalks should be included in the project or not, and if not, how that would impact accepting the bid.

Motion by Peggy Kruse to remove sidewalks from the 3rd Avenue project, no second. Motion failed.

Consideration /Discussion: 2023 Capital Plan and Financing Sources:
Village Administrator Lauren Freeman provided an overview of the debt financing memorandum provided by Ehlers, the Village's financial adviser, which gave the board borrowing options on whether to accept the base bid or base bid with alternate bids while keeping the property tax levy stable.

Motion by Michael Bell to move forward with base bid and first and second alternate bids, no second. Motion failed. Motion by Michael Bell to move forward with base bid and first alternate bid, no second. Motion failed. Motion by Michael Bell to move forward with base bid, Peggy Kruse seconded. Motion carries (5-0).

Consideration/Discussion: Bid Results for 2023 3rd Avenue Project:
Motion by Peggy Kruse to accept the low bid by Maddrell Excavating in the amount of $1,118,836.80, second by Michael Bell. Motion carries (5-0).

PARK AND RECREATION

Consideration/Discussion: Candy Cane Park Comprehensive Outdoor Recreation Plan (CORP) Amendment to include Candy Cane Park property expansion, intergovernmental cooperation with the Town of New Glarus and recommendation to proceed with process to apply for Wisconsin Department of Natural Resources Local Assistance program grant for land acquisition:

Mike Marty provided an update on the grant proposal he is working on. The plan is to apply for grant funding to purchase the land adjacent to Candy Cane Park. In order to score additional points in the grant application, the Village will need to amend the CORP to include this project. There are additional points for intergovernmental cooperation, so Marty stated the Town of New Glarus is willing to donate $2,500 towards the project if the Village provides a donation in the future to the Town. Next steps for the grant application include getting an appraisal of the property, which the Village will pay for and get reimbursed.

Motion by Chuck Phillipson to move forward with the CORP amendment, land appraisal, intergovernmental cooperation with the Town of New Glarus, and grant application, Peggy Kruse seconded. Motion carries (5-0).

CLOSED SESSION

Motion by Michael Bell, seconded by Mike Marty and roll call vote 5-0 the Village Board then adjourned into Closed Session Pursuant to Wisconsin State Statute 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 require a closed session and may reconvene to open session pursuant to State Statute 19.85 (2) (downtown redevelopment project) (compensation matters).

Motion by Michael Bell to reconvene to open sesssion, seconded by Peggy Kruse and roll call vote 5-0 the Village Board then adjourned into open session.

Motion made by Michael Bell to increase police officer wages $2.50 per hour and remove starting wage so that all officers begin at the one year wage, seconded by Mike Marty. Motion carries (5-0).

Motion made by Michael Bell to allow Chief Sturdevant to receive up to 20 hours per month of straight pay for overtime in April and May 2023, seconded by Peggy Kruse. Motion carries (5-0).

The meeting was adjourned at approximately 10:07 p.m.

– Lauren Freeman
Village Administrator

Report Criteria:
Report type: Summary
Check.Check Issue Date = 03/22/2023

GL Period	Check Issue Date	Check Number	Vendor Number	Payee	Amount
03/23	03/22/2023	41810	1040	ALLIANT ENERGY	24.61
03/23	03/22/2023	41811	1120	ARAMARK UNIFORM SERVICES	287.47
03/23	03/22/2023	41812	6121	AUTO VALUE NEW GLARUS	222.82
03/23	03/22/2023	41813	1165	BAKER & TAYLOR BOOKS	497.90
03/23	03/22/2023	41814	1255	BLANCHARDVILLE CO-OP	3,209.65
03/23	03/22/2023	41815	4965	CGC INC.	3,575.92
03/23	03/22/2023	41816	5842	CLASSY CLEANERS	1,235.00
03/23	03/22/2023	41817	4332	COMPUTER KNOW HOW LLC	269.63
03/23	03/22/2023	41818	4840	CONNEY SAFETY	159.69
03/23	03/22/2023	41819	1555	CULLIGAN WATER CONDITIONING IN	26.55
03/23	03/22/2023	41820	5503	EBSCO INFORMATION SERVICES	962.68
03/23	03/22/2023	41821	4653	EMBLEM ENTERPRISES INC	448.73
03/23	03/22/2023	41822	5460	EMPLOYEE BENEFITS CORPORATION	384.60
03/23	03/22/2023	41823	6232	ERGOTECH CONTROLS INC	1,195.74
03/23	03/22/2023	41824	4001	FP MAILING SOLUTIONS	87.15
03/23	03/22/2023	41825	6233	FREEMAN, LAUREN	770.00
03/23	03/22/2023	41826	1930	GREEN CTY WASTE MGMT	3,071.14
03/23	03/22/2023	41827	4196	HEARTLAND GRAPHICS	215.00
03/23	03/22/2023	41828	6143	HI-VIZ SAFETY	224.00
03/23	03/22/2023	41829	5827	INFOSEND INC	622.58
03/23	03/22/2023	41830	5347	INTOXIMETERS	150.00
03/23	03/22/2023	41831	5166	KIMBALL MIDWEST	238.95
03/23	03/22/2023	41832	4260	KUSTOM SIGNALS INC	139.00
03/23	03/22/2023	41833	2320	L.V. LABS WW LLC	1,573.50
03/23	03/22/2023	41834	5286	MDROFFERS CONSULTING LLC	101.25
03/23	03/22/2023	41835	2515	MIDWEST TAPE	189.15
03/23	03/22/2023	41836	2675	NCL OF WISCONSIN INC.	360.87
03/23	03/22/2023	41837	2730	NEW GLARUS POLICE ASSOC	10.00
03/23	03/22/2023	41838	2745	NEWS PUBLISHING COMPANY	651.96
03/23	03/22/2023	41839	5828	NORTHWOODS	608.58
03/23	03/22/2023	41840	6168	ODP BUSINESS SOLUTIONS LLC	243.80
03/23	03/22/2023	41841	5276	POSITIVE PROMOTIONS	247.90
03/23	03/22/2023	41842	5624	PUBLIC ADMINISTRATION ASSOCIATE	5,902.00
03/23	03/22/2023	41843	2960	QUARLES & BRADY	20,000.00
03/23	03/22/2023	41844	3120	SCHOOL DIST OF NEW GLARUS	368.53
03/23	03/22/2023	41845	3210	SPEE-DEE DELIVERY SERVICE INC	221.16
03/23	03/22/2023	41846	3250	STRAND ASSOCIATES INC	48,051.73
03/23	03/22/2023	41847	5095	STUART C IRBY CO	26,164.40
03/23	03/22/2023	41848	4065	STURDEVANT, JEFF	138.00
03/23	03/22/2023	41849	5149	SUE MOEN PHOTOS	65.00
03/23	03/22/2023	41850	6227	TALLMAN EQUIPMENT COMPANY INC	62.23
03/23	03/22/2023	41851	5854	TOP NOTCH	58.90
03/23	03/22/2023	41852	5285	TOTAL INSPECTION SERVICES LLC	126.00
03/23	03/22/2023	41853	3420	TOWN & COUNTRY ENG INC	230.00
03/23	03/22/2023	41854	5340	ULINE	215.66
03/23	03/22/2023	41855	3480	UNITED STATES CELLULAR	119.68
03/23	03/22/2023	41856	3510	USA BLUEBOOK	616.64
03/23	03/22/2023	41857	3625	WCMA	130.50
03/23	03/22/2023	41858	3991	WE ENERGIES	8,460.04

M = Manual Check, V = Void Check

GL Period	Check Issue Date	Check Number	Vendor Number	Payee	Amount
03/23	03/22/2023	41859	3805	WI PROF POLICE ASSN	86.00
03/23	03/22/2023	41860	3230	WI STATE LAB OF HYGIENE	28.00
03/23	03/22/2023	41861	3885	WRWA	175.00
Grand Totals:					133,225.29

Report Criteria:
Report type: Summary
Check.Check Issue Date = 03/22/2023

Report Criteria:
Check.Check Issue Date = 03/22/2023

GL Invoice Acct	Amt
Total 10:	19,188.40
Total 25:	1,669.73
Total 30:	406.26
Total 40:	59,889.41
Total 45:	488.34
Total 50:	31,562.60
Total 60:	16,943.81
Total 70:	3,076.74
Grand Totals:	133,225.29

VILLAGE OF NEW GLARUS-CLAIMS PRESENTED - 3/21/2023

CHECK #	PAYEE	DIST.	AMOUNT
ACH	941 Tax	payroll	10,049.16
ACH	WI Withholding	payroll	1,679.33
ACH	Great-West Retirement	deferred comp-pre tax	500.00
ACH	Great-West Retirement	deferred comp-post tax	100.00
e-check	Minnesota Mutual	life insurance	550.89
ACH	Employee Trust Funds	health insurance	25,748.14
JE	New Glarus Utilities	utility bill	12,963.86
ACH	US Bank	credit card	14,510.51
ACH	WI DOR	TiD annual fees	300.00
	Sub-total		**66,401.89**
Payroll - paid 3/10/2023			
17089	Kelsey Jenson	Clerk	1,018.81
17090	Deanna Young	Deputy Clerk	1,338.90
17091	Lynne Erb	Clerk's	1,406.11
17092	Mark Binger	PD	504.09
17093	Chanse Kaczmarski	PD	838.57
17094	Alex Brey	PD	1,910.38
17095	Hunter Krohn	PD	1,649.46
17096	Jeff Sturdevant	PD	2,186.19
17097	Molly Hultine	PD	255.79
17098	Ann Lahey	PD	628.10
17099	Joe Cockroft	PW	2,084.50
17100	Charles Loeffelholz	PW	2,111.17
17101	Kenneth Wolfe	PW	1,235.54
17102	Aaron Funseth	Water Treatment Plant	2,043.82
17103	Jason Borth	Utility	1,795.24
17104	Kevin Funseth	Utility	2,759.44
17105	Beth Heller	Utility	1,202.82
17106	Peter Heil	Utility	2,118.69
17107	Erica Loeffelholtz	Library	1,044.38
17108	Peggy Hammerly	Library	122.46
17109	Brooke Mathews	Library	942.85
17110	Alayna Lewis	Library	16.32
17111	Amy Trumble	Library	1,256.11
17112	Julie Hawkins	Library	446.81
17113	Amalia Morrison	Library	114.30
17114	Shirley Lueschow	Election	126.00
17115	Jane Phillipson	Election	153.00
17116	Carol Thompson	Election	160.00
17117	Dawn Johnson	Election	135.00
17118	Denise Wright	Election	126.00
17119	Judy Renner	Election	162.00
17120	Barb Peterson	Election	67.50
17121	Carole Powers	Election	126.00
17122	Sue Hall	Election	58.50
	Payroll Subtotal		**32,144.85**

Village of New Glarus
Building Inspection Summary
February, 2023

Project: 2300
Municipality Code:

DATE	PERMIT #	OWNER	ADDRESS	JOB TYPE	COST	CONTRACTOR	FEE
2-3-23	230023-05	Carrol Capitol	117th 4th Ave	REMO	$10,000	BMC	$140

#23-05

FEE: **$35.00** (non-refundable) pd.

APPLICATION FOR OPERATOR'S LICENSE

To Serve Fermented Malt Beverages and Intoxicating Liquors

I, the undersigned, do hereby respectfully make application to the local governing body of the Village of New Glarus, County of Green, Wisconsin for a license to serve, from date hereof to June 30, 2024, inclusive (unless sooner revoked), Fermented Malt Beverages and Intoxicating Liquors, subject to the limitations imposed by Section 125.32(2) and 125.68(2) of the Wisconsin Statutes and all act amendatory thereof and supplementary thereto, and hereby agree to comply with all laws, resolutions, ordinances and regulations, Federal, State or Local, affecting the sale of such beverages and liquors if a license be granted to me.

I certify that I am 22 years of age.

Signature of Applicant

Answer the following questions fully and completely:

Name of Applicant: Samantha Goodman

Address of Applicant: 1404 12th Street
Monroe, WI 53566

Is application new or renewal? New If renewal, was your last license issued in the Village of New Glarus? YES ☐ NO ☐
If not, where? _____

As required by WI Stats. Section 125.17(6), have you completed the alcohol awareness course? YES ☑ NO ☐
If so, where? Monroe Public Library

Information on Responsible Beverage Server training courses may be found HERE.

Place of Employment: Tofflers

STATE OF WISCONSIN
GREEN COUNTY

Samantha Goodman, *being the undersigned states that (s)he is the*
(Print Name)
person who made and signed the foregoing application for an operator's license; that all the statements made by the applicant are true.

Signature of Applicant

rev. 7/18

APPLICATION FOR OPERATOR'S LICENSE
BACKGROUND INFORMATION

NAME: Samantha JRS Goodman
First Middle Last

ADDRESS: 1404 12th Street

CITY/STATE/ZIP: Monroe, WI 53566

PHONE NUMBER: 608-214-8379

DATE OF BIRTH: 08/09/2000 DRIVER LICENSE #: G355-7900-0789-09

Previous Address (less than 5 years): _____

Have you ever been convicted of any felony? YES ☒ NO ☐
Date of such conviction 10-22
Name of Court Green County
Nature of offense false Imprisonment, ~~disorderly~~

Have you been convicted of any Misdemeanor/Municipal Ordinance within the last 10 years? YES ☒ NO ☐
If yes, list convictions:
Date of such conviction 2019
Name of Court: Green County / State
Nature of offense: trespass to dwelling
2022 - disorderly conduct ~~Conduct~~

Have you ever been convicted of <u>any</u> Alcohol Related Offenses? YES ☒ NO ☐
(i.e: OWI; Absolute Sobriety, Underage Drinking, Open Intoxicants, Procuring)
If yes, list convictions:
Date of such conviction: 8/19 & 9/19
Name of Court: Layfatte & Green County /
Nature of offense: 2 underages

Have you been convicted of violating any license law or ordinance regulating the sale of Fermented malt beverages or intoxicating liquors? YES ☐ NO ☐
Nature of Violation _____

Are you currently under investigation, or pending charges, for a Felony, Misdemeanor offense, or Municipal violation? YES ☒ NO ☐
If yes, explain: false Imprisonment will be removed in a year

Has any license, (Driver's license, Bartender's license, etc.) issued to you ever been suspended, revoked or denied, due to an alcohol or drug related offense or incident? YES ☐ NO ☒
If yes, explain: _____

Having read and answered all of the above statements and questions, I hereby consent to investigation of such facts, and certify that all information provided on the application and the background information is true and correct to the best of my knowledge. **I understand that providing false information or failing to disclose information may be grounds for denial of this operator's license as well as denial of the right to apply for a license for a six month period. I understand that the license fee is non-refundable.**

Signed: Samantha Goodman

POLICE ADMINISTRATION'S REPORT TO Public Safety / Village Board

TRAFFIC ✓ NCIC ✓ CIB ✓ LOCAL ✓ CCAP/WCCA ✓

CRIMINAL HISTORY _____ NOT RUN OTHER: _____

POLICE ADMINISTRATION'S RECOMMENDATION: APPROVE / DENY
If denied, reason:

☐ Applicant has been convicted of a felony that substantially relates to the licensed activity (unless duly pardoned).

☑ Applicant has habitually been a law offender (arrest or conviction of at least two offenses which are substantially related to the licensed activity within the five years immediately preceding the license application).

☑ Applicant did not disclose complete information on application.

BACKGROUND INVESTIGATION COMPLETED BY: H Sturdevant DATE: 3-7-23
N23-00747

PUBLIC SAFETY DETERMINATION: APPROVE / DENY DATE: _____

If denied, reason: _____

VILLAGE BOARD DETERMINATION: APPROVE / DENY DATE: _____

If denied, reason: _____

Denial notice sent by certified mail to applicant by Village Clerk: _____
(date)

Renewal Applicant request for Reconsideration Hearing: _____
[Only renewals have right to hearing] (date)

RECONSIDERATION HEARING (by closed session):
[Must be at least 10 days after notice of denial.]

DETERMINATION: AFFIRM / REVERSE DATE: _____

Denial notice sent to applicant by Village Clerk: _____
(date)

NOTE: A renewal applicant who is denied any license upon reconsideration of the matter may apply to the Circuit Court pursuant to § 125.12(2)(d), Wis. Stats., for review.

Municipal Ordinance
§ 185-23
Rev. 2/2014

VILLAGE BOARD PROCEEDINGS
VILLAGE OF NEW GLARUS
11/15/22

2023 BUDGET PUBLIC HEARING: President Truttmann called the budget public hearing to order at 7:00 p.m. PRESENT: Henry Janisch, Peggy Kruse, Tammy Newberry, Chuck Phillipson, and Roger Truttmann. ABSENT: Michael Bell. ALSO PRESENT: Pat Rank (Strand Engineering), Bekah Stauffacher (NG Chamber), Amy Trumble (NGPL), Public Works Director Joe Cockroft, Chief Burt Boldebuck, Lt. Jeff Sturdevant, Interim Administrator Karl Frantz, and Clerk-Treasurer Kelsey Jenson.

PUBLIC HEARING COMMENTS: None.

Being no further comments, Chuck Phillipson moved to close the public hearing, second by Peggy Kruse at 7:03 p.m. Motion carried. (5-0)

REGULAR MEETING-CALL TO ORDER: President Truttmann called the regular meeting to order. PRESENT: All those present at the public hearing.

ANNOUNCEMENT: President Truttmann announced that all cell phones shall be silenced during the meeting.

AGENDA: Motion by Peggy Kruse second by Tammy Newberry to approve the 11/15/22 agenda. Motion carried. (5-0)

PUBLIC APPEARANCES AND CITIZEN COMMENTS: None.

CONSENT AGENDA: Motion by Henry Janisch for approval of the consent agenda, second by Tammy Newberry. Motion carried. (5-0).

APPROVAL OF MINUTES OF 11/1/22 REGULAR MEETING:

APPROVAL OF CLAIMS: The claims lists were presented to the Board and include: ACH for payroll benefits and December health insurance, e-check for December life insurance, JE for October utilities; payroll vouchers 16830 to 16854 totaling $31,585.47 and checks 41416 to 41468 totaling $79,390.80. Staff recommended approval.

OCTOBER BUILDING INSPECTOR'S REPORT: The report was presented to the Board

APPROVAL OF OPERATOR LICENSES: Daniel Kubly, Mary Goeke, and Jerilyn George. The Public Works and Public Safety Committee recommended approval.

PUBLIC WORKS/PUBLIC SAFETY

Committee Chairperson Report: Chair Kruse shared an update from the last PWPS Meeting.

Consideration/Discussion: 3rd Avenue Phase II Design with Strand Associates: The Public Works and Public Safety Committee recommended approval. Pat Rank (Strand Engineering) was in attendance to present the design for Phase II of 3rd Ave with the Board. Rank explained that $2 million would cover all expenses for 3rd Ave down to Glarner Dr. A potential Phase III was discussed that would cover Heidi Ct. and 3rd Ave from Glarner Dr. to village limits on Durst Rd for an addition

$1.2 million. The Board discussed all options. A map of Phase II and Phase III is available at the Clerk's office.

Motion by Roger Truttmann to approve the design with Strand Engineering for Phase II, with no sidewalk on the north side of 3rd Avenue from 6th St. to end of Phase II, second by Peggy Kruse. Motion carried. (5-0).

PARKS AND RECREATION

Committee Chairperson Report: Chair Phillipson shared an update from the last Parks/Recreation meeting.

Consideration/Discussion: Ballfield Sign Advertising Program: The Parks and Recreation Committee recommended approval.

Motion by Henry Janisch to approve the Ballfield Sign Advertising Program, second by Tammy Newberry. Motion carried. (5-0).

NEW BUSINESS

CONSIDERATION/DISCUSSION: 2023 Budget and Corresponding Resolutions: Interim Administrator Frantz indicated items 7 A-K are the necessary resolutions to approve the budget and may be considered individually or together.

Motion by Tammy Newberry to approve the 2023 Budget, listing items 7 A-K (as follows), second by Chuck Phillipson.

Resolution 22-28/Budget Adoption and Levy:
Resolution 22-29/Treasury Bond:
Resolution 22-30/Stormwater Fee:
Resolution 22-31/Bank Depository:
Resolution 22-32/FTE Wages:
Resolution 22-33/PT Wages:
Resolution 22-34/FTE Fringe Benefits:
Resolution 22-35/PT Fringe Benefits:
Resolution 22-36/Establish Resource Recovery Fee:
Resolution 22-37/Pool and Recreation Fees:
Resolution R22-38 Park Use and Community Room Fees

ROLL CALL VOTE (on motion to approve 2022 Budget): Henry Janisch-yes; Peggy Kruse-yes; Tammy Newberry-yes; Chuck Phillipson-yes; Roger Truttmann-yes. Motion carried. (5-0)

Consideration/Discussion: Resolution R22-39 Election Official Appointment: The resolution was presented to the Board and can be viewed online at the Village website. Staff recommended approval.

Motion by Henry Janisch to approve Resolution R22-39 Election Official Appointment, second by Peggy Kruse. Motion carried. (5-0).

Consideration/Discussion: Approval of Agreement with Accurate Appraisal for Reevaluation and Annual Assessing Maintenance Services: The pricing options and contracts were presented to the Board and can be viewed online at the Village website. Pricing options included a 4-year contract and a 5-year contract. Clerk-Treasurer Jenson explained that Village staff were not extremely

pleased with Accurate's service this past year, but that the company has done reorganization and added more staff, and has acknowledged issues that will be fixed going forward. Staff recommended approval of the 4-year blend contract.

Motion by Tammy Newberry to approve 4-year contract with Accurate Appraisal, second by Henry Janisch. Motion carried. (5-0).

Consideration/Discussion: Approval of Village Property and Liability Insurance: A quote from the Village's current carrier, M3 Insurance, along with a quote from League of Wisconsin Municipalities Mutual Insurance were presented to the Board and can be viewed online at the Village website.

Motion by Tammy Newberry to approve Village Property and Liability Insurance as quoted with the League of Wisconsin Municipalities, second by Chuck Phillipson. Motion carried. (5-0).

Consideration/Discussion: Approval of 2023-2025 New Glarus Area Emergency Medical Service, Inc. Contract: The contract was presented to the Board and can be viewed online at the Village website. Staff indicated that the contract amount was included in the 2023 Budget and recommended approval.

Motion by Chuck Phillipson to approve the 2023-2025 NG Area EMS Contract, second by Peggy Kruse. Motion carried. (5-0).

PRESIDENT'S REPORT:

President Truttmann explained that the Board will need to have a special Board meeting on Tuesday, November 29 for administrator hiring. The time is to be determined.

ADJOURN: Being no further business, President Truttmann adjourned the meeting at 8:19 p.m.

–Kelsey A. Jenson
Clerk-Treasurer

VILLAGE OF NEW GLARUS

ADMINISTRATION DEPARTMENT

MEMORANDUM

To: New Glarus Village Board

From: Lauren Freeman, Village Administrator

Date: March 21, 2023

Re: 2023 Capital Projects List

At their March 7, 2023 meeting, the Village Board accepted the base bid for the 3rd Avenue reconstruction project, which has a total cost of $1.4 million. The Village intends to use general obligation (GO) borrowing to finance this project. In addition to general GO borrowing funds, the Village has $275,028 in unspent proceeds from the previous year's borrowing as well as $225,000 in American Rescue Plan Act (ARPA) funds to spend.

Proposed Projects:

The following projects have been identified by Village staff and Board members as tentative priorities to utilize this funding:

Project:	**Amount:**
3rd Avenue Reconstruction	$1,417,279
Bond Issuance Expenses	$62,875
Public Works Truck	$139,163
Road Right-of-Way	$30,000
Police Squad Car	$60,000
Police Body Worn & Squad Cameras	$60,366*
Police Tasers	$14,582
Police Bullet Resistant Window Film	$7,043
Downtown/Village Hall Security Cameras	$33,384
Administration Technology Needs	$15,000
Floral Clock Lighting	$2,000
Pool Heater	$16,212
Pool Benches	$2,800
TOTAL	**$1,860,704**

NEW GLARUS VILLAGE HALL
319 2ND STREET NEW GLARUS, WISCONSIN 53574
(P) 608-527-5971 - (F) 608-527-6630

Financing:

Borrowing & Unspent Proceeds	**Amount:**
3rd Ave Street	$704,792
Street Unspent Proceeds	($120,301)
3rd Ave Sanitary	$161,190
3rd Ave Storm	$348,568
Storm Unspent Proceeds	($144,549)
3rd Ave Water	$172,728
Water Unspent Proceeds	($10,178)
Public Works Truck	$139,163
Road Right-of-Way	$30,000
Issuance Expenses	$62,875
TOTAL BORROWING	**$1,374,288**

COVID Relief Funds (ARPA)	**Amount:**
Police Squad Car	$60,000
Police Body Worn & Squad Cameras	$60,366
Police Tasers	$14,582
Police Bullet Resistant Window Film	$7,043
Downtown/Village Hall Security Cameras	$33,384
Administration Technology Needs	$15,000
Floral Clock Lighting	$2,000
Pool Heater	$16,212
Pool Benches	$2,800
TOTAL ARPA	**$211,387**
Remaining Funds	*$13,613*

Project Details:

<u>3rd Avenue Reconstruction:</u>
3rd Avenue reconstruction from 6th to 8th Street. Total project cost includes street, sanitary, storm, water, engineering, geotechnical, and contingency costs.

<u>Public Works Truck:</u>
Replace 2009 Dodge Public Works truck. The Public Works/Public Committee recommended moving forward this purchase.

<u>Road Right-of-Way:</u>
Purchase right-of-way needed for school property access.

Police Squad Car:
Replace the 2015 Dodge Charger with engine problems. This item was approved at the Public Works/Public Safety and Village Board. The Police Department also received a $7,000 grant, which will fund needed mobile data computer, docking station, power supply, router, and printer for the vehicle.

Police Body Worn & Squad Cameras:
Purchase 3 squad car and 7 body worn cameras. Squad cameras will expire next year and therefore need to be replaced.

*Budget Note: The Police Department received two quotes, one for an in-house server at the Police Department and one for going to the cloud with data. Using the cloud will require faster internet speeds, which Chief Sturdevant is exploring. The other option is an in-house server at the Police Department:

- Cloud Option: $60,366 – unlimited and includes all warranties, no yearly fees or IT costs, new cameras halfway through the 5-year plan, and includes redaction software. This option will likely require a more costly internet service.
- In-House Server Option: $50,786– this option includes several recurring costs including $2,535 a year after the first year, plus the warranty costs (body cameras are $865 per unit per year and squad car cameras are $1,230 per unit per year), plus redaction software is $2,250 every three years.

The Police Department also received quotes for purchasing squad car or body cameras separately. Purchasing squad cameras on their own would cost $20,495 (in-house server) and purchasing body worn cameras on their own would cost $23,726 (in-house server).

Police Tasers:
Replace outdated tasers with six new tasers for the Police Department.

Police Bullet Resistant Window Film
Ballistic film to cover the large windows in front of the Police Department. The film is bullet resistant and would be tinted to cover windows and hide confidential material at workstation areas.

Downtown/Village Hall Cameras:
Purchase two cameras for Village Hall, one camera for Village Park, one camera for Swimming Pool, and three downtown cameras. Additional quotes were obtained for other cameras, including a license plate reader camera for $3,689 and another quote for one brush pile camera and two Public Works/Utilities Building cameras for $13,920.

Floral Clock Lighting:
Install new lighting at the Floral Clock welcome entrance.

Administration Technology Needs:
Village Hall computer replacement, website updates, and other miscellaneous technology needs.

Pool Heater:
Replace the current pool heater with two smaller sized heaters.

Pool Benches:
Replace old wooden benches at the Community Pool that are 15+ years old.

MDRoffers Consulting

To: New Glarus Extraterritorial Zoning (ETZ) Committee, Village Board

From: Mark Roffers, Village Planning Consultant

Date: March 17, 2023

Re: Holmes Preliminary and Final Plats, Airport Road

Recommendation: I recommend that the ETZ Committee approve a motion recommending Village Board approval of the Homes Final Plat, dated January 30, 2023, and then the Village Board approve a motion approving that same plat, subject to the following conditions:

1. Per their finding that the conditions for granting exceptions specified in Section 265-52 B are met, the ETZ Committee supports and the Village Board approves the following exceptions to sections of the Village's Subdivision of Land ordinance:
    a. To Section 265-12, to the extent it normally requires newspaper publishing and nearby property owner notice of the public hearing, on the basis that the Town has already noticed a separate public hearing.
    b. To the part of Section 265-13 A.(1) normally requiring submittal of title abstract or property report.
    c. To certain normal inclusions for preliminary and final plats under Sections 265-18 and 265-19, to the extent that these are not included on the submitted January 30, 2023 plat.
    d. To Section 265-42 C, which normally requires that every lot front or abut a public street, provided that a private road easement be recorded to serve Lots 1 and 2 in conjunction with the recording of the final plat.

2. Prior to the addition of Village signature, the applicant shall amend the final plat and resubmit it for Village Administrator approval with the following adjustments:
    a. Amend Sheet 1 to indicate that the surveyor has complied with the Village of New Glarus subdivision regulations to the extent required by law and the Village's approval.
    b. Add the following note: "Through Section 823.08 of Wisconsin Statutes, the Wisconsin Legislature has adopted a right-to-farm law. This statute limits the remedies of owners of later established residential property to seek changes to preexisting agricultural practices in the vicinity of the residential property. Active agricultural operations are now taking place and may continue in the vicinity of

4324 Upland Drive Madison WI 53705 608-770-0338 mark@mdroffers.com

this plat. These active agricultural operations may produce noises, odors, dust, machinery traffic, or other conditions during all hours of the day and night."

c. Either reduce the cluster envelopes of lots as necessary so that they include no 20+% slopes, or include a note on the plat that prevents the disturbance of 20%+ slopes regardless of whether they are outside or inside of cluster envelopes.

3. Any other changes to the January 30, 2023 version of the final plat shall be reviewed by the Village Administrator for general compliance with that version and technical correctness before Village Clerk signature is added to the final plat.

4. The applicant shall satisfy the requirements of the Town Engineer (Vierbicher Associates) in its letter dated March 13, 2023 (mislabeled 2022), including the recording of a private road easement and an open space deed restriction over 69.23 acres (all parts of the plat outside of the "cluster envelopes") indicated on Sheet 2.

5. The development shall include stormwater management and erosion control systems that focus on Best Management Practices (BMPs). Such techniques shall be integrated in stormwater management and erosion control plans submitted with development of the private road and each lot.

6. Within one month of their recording, the applicant shall provide to the Village Administrator copies of the recorded plat, easement, and restriction described above.

Requested Approval: Preliminary and final subdivision plats. Within the extraterritorial plat approval jurisdiction, subdivision plats require an ETZ Committee recommendation and Village Board approval. Town and County approvals are also required. In 2022, the Town Board approved the preliminary plat. In February 2023, the Town Plan Commission recommended the final plat, but may have reviewed it again on March 16th prior to Town Board action.

Site Area and Location: See attached maps. The proposed plat includes approximately 80 acres at the east edge the Town of New Glarus. The plat is on the north side of Airport Road and just southwest of Ward Creek. The plat area is about 2,000 feet southeast of the Village limits at the closest point, and over one mile east from the nearest developed parts of the Village along Airport Road. The plat area is within the Village's statutory 1 ½ mile extraterritorial plat and CSM review jurisdiction, but just outside of the 2006 mutually-agreed extraterritorial zoning area.

Current Land Use: Agricultural and wooded, with an existing farmstead along Airport Road. There are several areas of 20% or greater slope within the plat area. There is a small wetland area near the southwest corner of Lot 7 at the culvert that delivers water under Airport Road. The DNR reports that this project occurs within the Rusty Patched Bumble Bee Federal High Potential Zone, and includes some recommended actions in its endangered resources report.

The plat area is bisected by a natural gas pipeline running generally east-west within a 75' wide easement that crosses proposed Lots 1 and 2 (but includes none of their proposed building envelopes).

Proposed Use: The proposed plat would create 6 clustered lots. Two new lots and the existing farmhouse (on Lot 4) would create one cluster taking access off Airport Road, including the next lot (Lot 5) likely to be built upon. A second cluster of three new lots would take access using a shared private road intersecting with Airport Road. It is unclear when this second cluster will actually be developed. Using cluster density provisions in Town of New Glarus ordinances, the land area can support this number of lots, provided that 69.23 acres be permanently restricted as open space.

The Lot 7 area is a ridge top that will be kept open. The proposed building sites are at the toe of the ridge and generally nestled into the edge of the woods. The 20%+ slopes are in Lot 7, which will remain in open space, or *generally* in the portions of the other lots that are outside of "cluster envelopes" where new building will be allowed.

Village Comprehensive Plan Recommendations: See attached map. Plat area has been designated for future "Agriculture, Open, and Undeveloped" land use in the Village's plan, with the predominate intended uses as suggested by the title of this future land use designation. The Village's plan also suggests a north-south drainageway (environmental corridor) near the west edge of the plat, within the area of the to-remain-undeveloped Lot 7. Under statute, outside of the extraterritorial zoning area, the Village may not use its extraterritorial plat review jurisdiction to regulate land use.

Applicable Extraterritorial Plat Rules: Village Board and ETZ Committee review over this plat is prescribed under Chapter 265 (Subdivision of Land) of the Village of New Glarus Municipal Code, to the extent limited by Wisconsin Statutes and court decisions. These are likely limited to the following provisions as they would apply to this plat:

1. Land suitability requirements in its Section 265-8. With the proposed layout, current and required easements and restrictions, and the Town Engineer's proposed requirements in his March 13th letter, it is my opinion that the land is suitable for the proposed plat. The DNR endangered resources recommendations seem outside of the Village's land suitability requirements as listed in Section 265-8.
2. Procedural requirements for plat review in its Article IV. Village staff have accommodated the simultaneous review of the preliminary and final plat and truncated the Village public hearing process, subject to Board consent, on the premise that this proposed plat has already undergone extensive public review at the Town level.

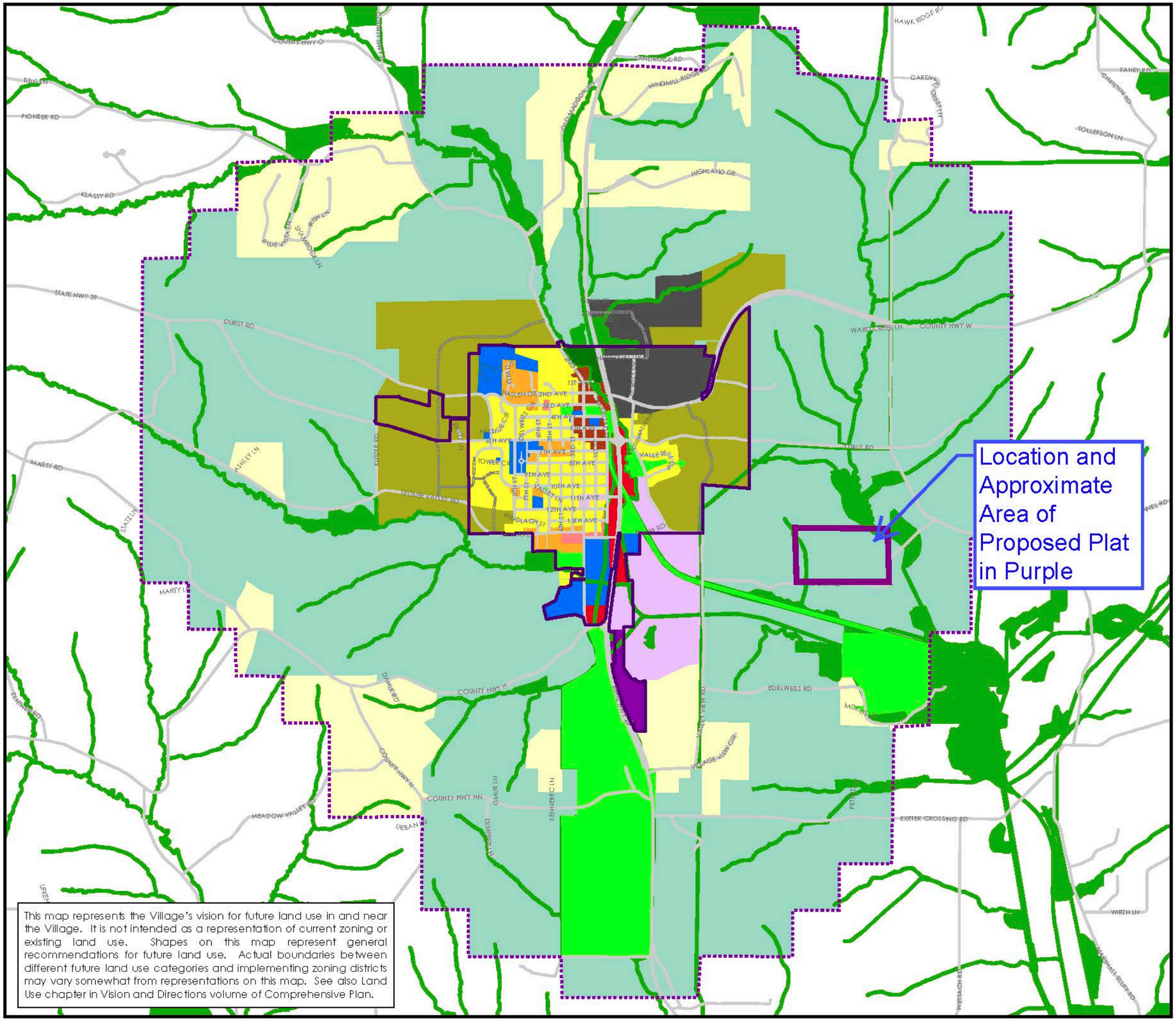
3. Extraterritorial land division review provisions in Section 265-17. The proposed plat complies with general extraterritorial land division policies in this section. Section 265-17 A.(6) also specifies that "extraterritorial land divisions that are beyond the extraterritorial zoning jurisdiction but within the extraterritorial land division approval jurisdiction shall be designed in accordance with the standards printed within Sections 305-110, 305-121, and 305-122 of the Extraterritorial Zoning Ordinance. Section 305-110 includes land use regulations that cannot be legally enforced, plus a minimum 2 acre lot size regulation and dimensional requirements that can be enforced (and are met with the plat). Section 305-121 includes maximum density regulations that likely cannot be enforced outside of the extraterritorial zoning area, by court decision. Section 305-122 contains "rural character design standards" that I believe are enforceable. I have attached these standards to this memo, and they form the basis for some of the recommended conditions in the first section of this memo. I will note that most of these "rural character" provisions appear to be met with this plat. It is thoughtfully designed, and appears to have been carefully reviewed by the Town including the Town Engineer.
4. Technical requirements in its Article V. These are met, subject to the recommended exceptions in the first section of this memo.
5. Block and lot design standards in its Sections 265-41 and 265-42. These are met, subject to a recommended exception in the first section of this memo.

Village of New Glarus
Comprehensive Plan

14B

Future Land Use
ETJ Perspective

New Glarus, Wisconsin



This map represents the Village's vision for future land use in and near the Village. It is not intended as a representation of current zoning or existing land use. Shapes on this map represent general recommendations for future land use. Actual boundaries between different future land use categories and implementing zoning districts may vary somewhat from representations on this map. See also Land Use chapter in Vision and Directions volume of Comprehensive Plan.

- Potential Future Major Road Extensions
- Rural Single Family Residential
- Village Single Family Residential
- Two and Multiple Family Residential
- Neighborhood
- Downtown
- Neighborhood Commercial
- Highway Commercial
- Business Park
- Industrial
- Mixed Use / Flex
- Institutional and Governmental
- Parks and Public Conservancy
- Environmental Corridor
- Agriculture, Open, and Undeveloped

- 1.5 Mile Extraterritorial Land Division Review Jurisdiction
- January 2016 Village Limits

N

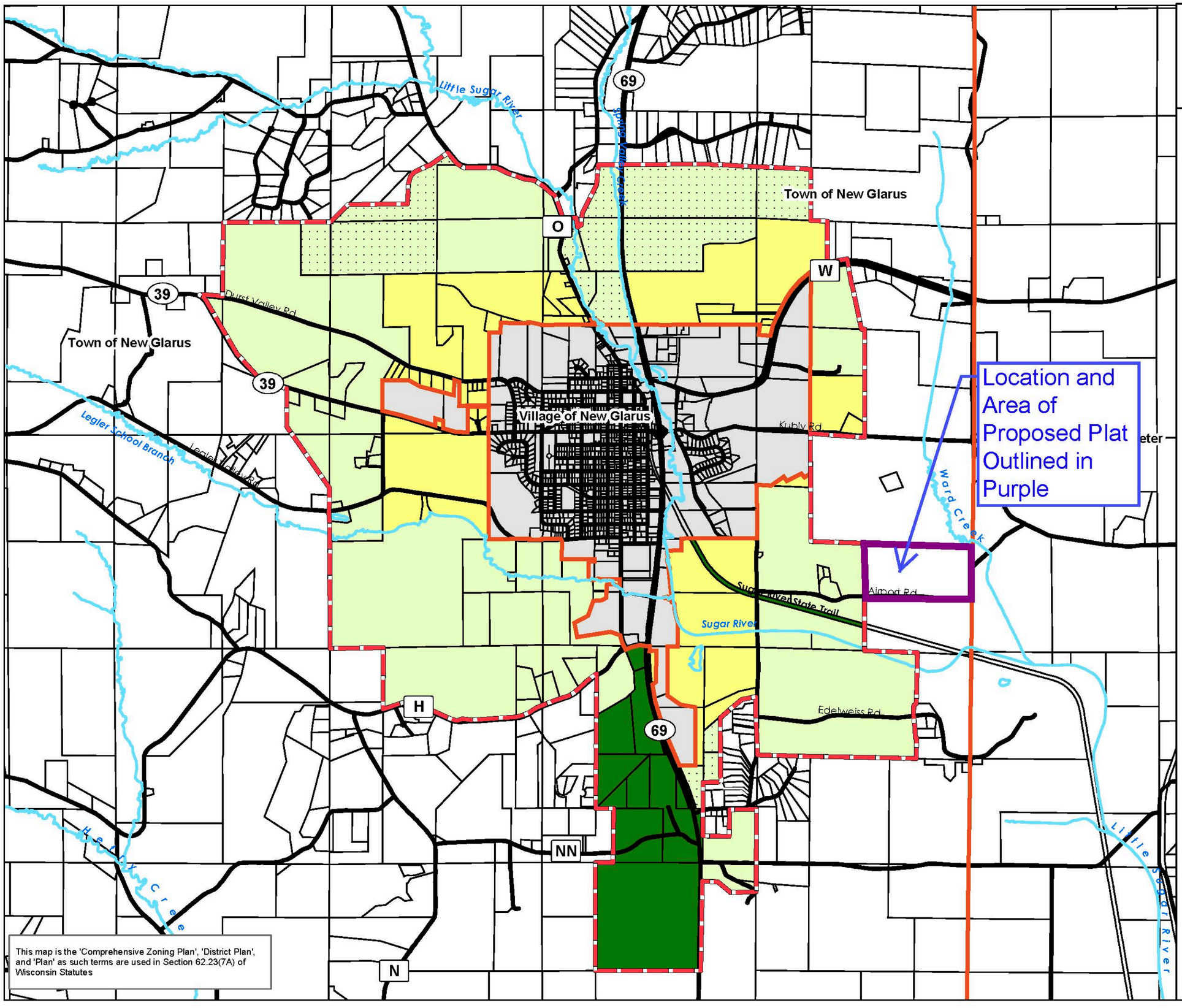
October 2016
Data Sources:
Green County, WIDNR, FEMA

MDRoffers Consulting

Green County Wisconsin Development Corporation

Village of New Glarus - Town of New Glarus

Extraterritorial Zoning Map



Mapped Extraterritorial Zoning Districts

- Agricultural and Woodland Preservation (A-P)
- Limited Agricultural & Woodland Preservation (AP-L)
- Agricultural Transition (A-T)
- Conservancy

- Surface Water
- Roads and Highways
- Parcel Lines
- Municipal Boundaries
- New Glarus Extraterritorial Zoning Boundary
- Village of New Glarus (November 2006)
- Lands Not Subject to Extraterritorial Zoning

Adopted:	Nov 15, 2006
Revised:	
Revised:	
Revised:	
Revised:	
Revised:	

2,400 1,200 0 2,400 Feet

N

This map is the 'Comprehensive Zoning Plan', 'District Plan', and 'Plan' as such terms are used in Section 62.23(7A) of Wisconsin Statutes

Data Sources:
Water: WIDNR
Parcels, Municipal Boundaries : Green County

Vandewalle & Associates
Planning - Creating - Rebuilding

§305-122. Rural Character Design Standards.

A. Purpose. The purpose of this section is to establish standards to ensure that new development that is approved is sensitive to preserving the rural character of the New Glarus area. The standards for approval include standards for cluster development, open space preservation, view protection, signs, and lighting.

B. Cluster Development Design Standards. In order to be considered a cluster development under §305-121 subsection E., the following design criteria must be met:

(1) Natural resources shall be integrated into the development design as aesthetic and conservation landscape elements. The development shall identify and provide for the permanent preservation of environmentally sensitive areas such as wetlands, hydric soils, floodplains, slopes of 20% or greater, areas of rare or endangered plant or animal species, historic and archeological sites, and views in accordance with subsections B.6 and C below. Permanent preservation shall be achieved through the implementation of techniques such as conservation easements, restrictive covenants, deed restrictions, dedication to the public or an appropriate non-profit organization, and/or establishment of buildable or "no build" areas on the plat or certified survey map.

(2) Homesites shall be promoted near the edges of wooded areas and near the edges of open fields.

(3) Where the development includes a mature woodland, the developer shall identify the edges of said woodland, establish forest management guidelines in accordance with forestry Best Management Practices, and practice active forest management and selective harvesting in accordance with said guidelines to improve the health and diversity of tree species on the property.

(4) No building site shall be located on a slope of 20% or greater.

(5) All cluster developments of ten (10) or more lots shall provide for the recreational needs of its future residents through trails, parks, dog runs, or other recreational space or facilities geared and accessible to residents. Where an adopted Town, County, or Village comprehensive plan, land use plan, or outdoor recreation plan recommends a park, trail, or other recreational facility for the proposed plat area, the developer will make reasonable accommodation for the recommended facility.

(6) Lots, dwellings, and internal roads shall be placed to minimize their visibility from existing public roads and to conform to the landscape. This shall be accomplished by:

(a) Designing lots that will abut a federal, state, or county highway to minimize the visibility of the dwellings from the highway, with strategies including maintenance of existing vegetation and grades, deep lots, dwellings abutting new roads that are not the highway, a landscaped bufferyard along the highway meeting the standards of §305-117 C. of this Article, or some combination based on the specific conditions of the land.

(b) Designing roads and lot layouts to blend with the natural land contours.

(c) Using topography and vegetation to screen dwellings.

(d) Preserving tree lines, fence lines, stone rows, existing farm roads, barns, cabins, and other features of the rural landscape.

(e) Meeting other view preservation standards in subsection C below.

(7) The development shall include stormwater management and erosion control systems that focus on Best Management Practices (BMPs). BMPs may include overland water transfer, natural landscape planting and restoration to increase infiltration and reduce runoff, bio-infiltration systems, natural basin design, residential roof runoff directed to yard areas, and rain gardens. Such techniques shall be integrated in stormwater management and erosion control plans submitted with the cluster development subdivision plat or certified survey map submittal.

(8) The placement of building sites shall be made in accordance with any village or town adopted future roadway or utility plan map.

(9) The developer shall be required to work with the Joint Committee and Town of New Glarus on other design considerations that are particular to the unique characteristics of the parcel.

C. View Preservation. The conditions of any development approval shall require the identification of building sites on the plat, certified survey map, or existing lot of record, and may restrict the location of houses and other structures so as to provide appropriate sight lines and view protection as follows:

(1) The lots shall be positioned and building sites and heights limited so that the rooflines and tops of structures shall not visibly extend above the line of ridges and hilltops (or the vegetation that will remain on top of them) when viewed from outside the development parcel.

(2) Houses and structures shall be buffered from existing roads using existing and planted trees and vegetation, hills, berms or other natural-appearing features.

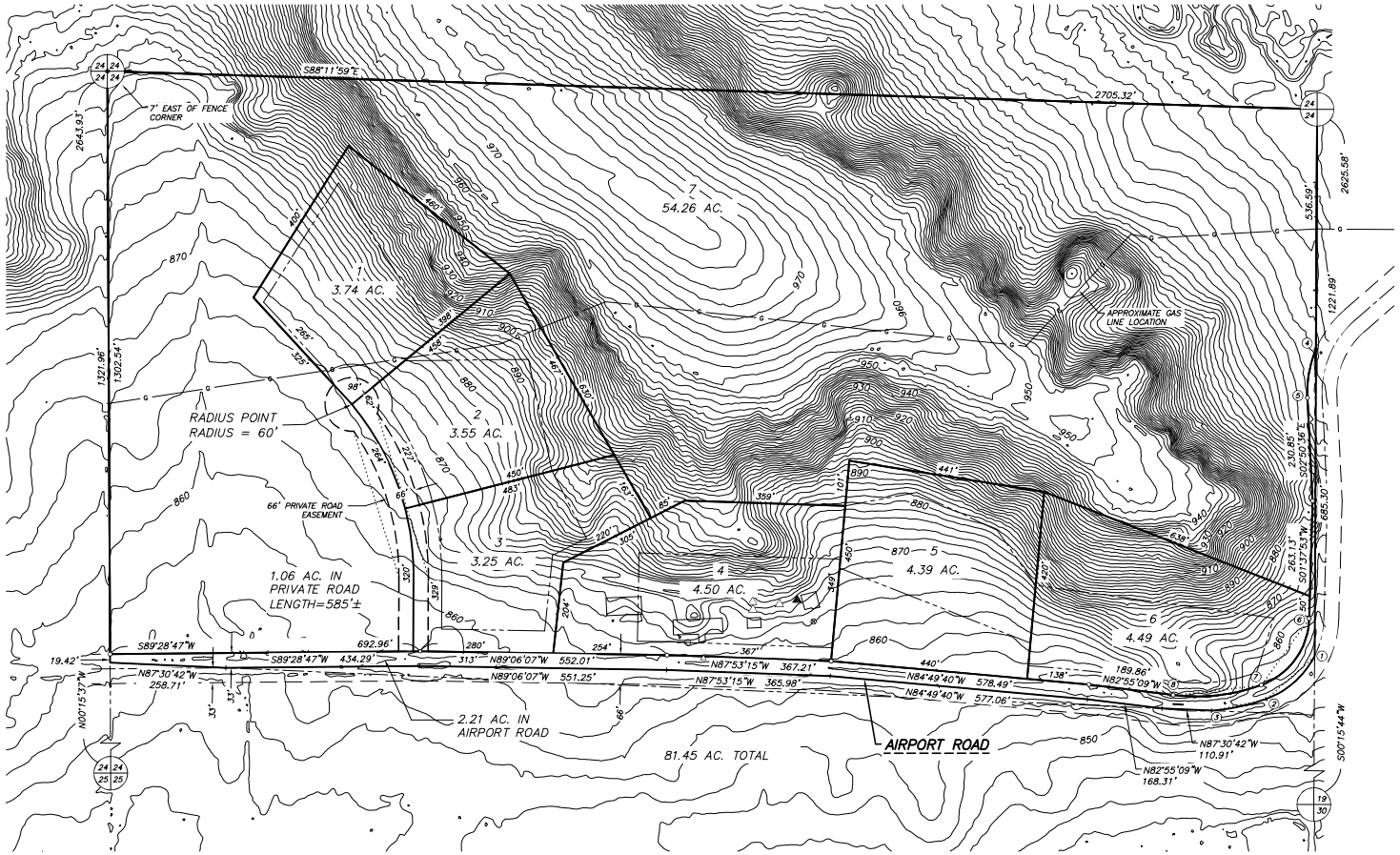
D. Rural Lighting Standards. Lighting shall be installed and maintained to minimize any negative impacts on the rural character and dark night skies. The specifications for lighting set in §305-118 shall be followed.

E. Signs and Billboards. Signs and billboards shall be restricted to promote high aesthetic quality and safety throughout the extraterritorial zoning jurisdiction. The specifications for signage and billboards in §305-119 shall be followed.

F. Agricultural Preservation. Effort shall be taken to protect agriculture. For all new lots created for residential purposes, the following note shall be added to the final plat or certified survey map before such document is recorded: "Through Section 823.08 of Wisconsin Statutes, the Wisconsin Legislature has adopted a right-to-farm law. This statute limits the remedies of owners of later established residential property to seek changes to pre-existing agricultural practices in the vicinity of the residential property. Active agricultural operations are now taking place and may continue in the vicinity of this plat or certified survey map. These active agricultural operations may produce noises, odors, dust, machinery traffic, or other conditions during all hours of the day and night."

HOLMES DEVELOPMENT PRELIMINARY PLAT

That part of the Northwest and Northeast 1/4s of the Southeast 1/4 of Section 24, Town 4 North, Range 7 East, Town of New Glarus, Green County, Wisconsin, bounded and described as follows:
Beginning at the East 1/4 corner of said Section 24; thence S00°15'44"W along the East line of Section 24, 1221.89' to the centerline of Airport Road; thence Southwesterly, 147.71' along said centerline and the arc of a curve to the right whose radius is 196.00' and whose chord bears S48°23'25"W, 144.24'; thence Southwesterly, 125.55' along said centerline and the arc of curve to the right whose radius is 456.00' and whose chord bears S77°52'04"W, 125.15' to the South line of the North 1/2 of the Southeast 1/4 of Section 24; thence N87°30'42"W along the South line of the North 1/2 of the Southeast 1/4 of Section 24, 110.91' to the centerline of Airport Road; thence N82°55'09"W along said centerline, 168.31'; thence N84°49'40"W along said centerline, 577.06'; thence N87°53'15"W along said centerline, 365.98'; thence N89°06'07"W along said centerline, 551.25'; thence S89°28'47"W along said centerline, 434.29' to the South line of the North 1/2 of the Southeast 1/4 of Section 24; thence N87°30'42"W, 258.71' to the Southwest corner of the North 1/2 of the Southeast 1/4 of Section 24; thence N00°15'37"W, 1321.96' to the center of Section 24; thence S88°11'59"E, 2705.32' to the point of beginning; subject to a public road right of way as shown and to any and all easements of record.



LEGEND:

- Cast aluminum monument found
- Cast aluminum monument with brass cap found
- 3/4" solid round iron rod found
- 1-1/4" x 24" solid round iron rod set, weighing 4.30 lbs per lineal foot
- Well
- Septic cover
- Septic vent

150 0 150
SCALE: 1" = 150'

2.00 ACRE BUILDING ENVELOPE

NOTES:
1.) Bearings are referenced to the Wisconsin County Coordinate System, Green County Zone, NAD83 (2011), in which the East line of the Southeast 1/4 of Section 24 bears S00°15'44"W.
2.) Elevations are NAVD 88 (GEOID12A) and are shown in feet. Contour interval is 2 feet.

CURVE TABLE

CURVE	RADIUS	ARC	DELTA ANGLE	CHORD	CH. BEARING	TAN.BEARING-IN	TAN.BEARING-OUT
(1)-(2)	196.00'	147.71'	43°10'48"	144.24'	S48°23'25"W	S26°48'01"W	S69°58'49"W
(2)-(3)	456.00'	125.55'	15°46'30"	125.15'	S77°52'04"W	S69°58'49"W	S85°45'19"W
(4)-(5)	246.00'	110.53'	25°44'36"	109.60'	S10°01'42"W	S22°53'59"W	
(6)-(7)	163.00'	194.44'	68°20'56"	183.12'	S35°48'21"W		S69°58'49"W
(7)-(8)	423.00'	200.08'	27°06'02"	198.22'	S83°31'50"W	S69°58'49"W	

I hereby certify that this survey complies with Chapter A-E 7 of the Wisconsin Administrative Code, that I have surveyed, monumented, and mapped the lands described hereon, and that this map is a correct representation thereof in accordance with the information provided.

August 5, 2022

Robert A. Talarczyk, P.L.S.

WISCONSIN ROBERT A. TALARCZYK S-2323 NEW GLARUS WI LAND SURVEYOR

PREPARED FOR:
Carol Holmes
W4988 Airport Road
New Glarus, WI 53574
(608) 527-2466

JOB NO. 22031
POINTS 22031
DRWG. 22031_1
DRAWN BY FLS

HOLMES FINAL PLAT

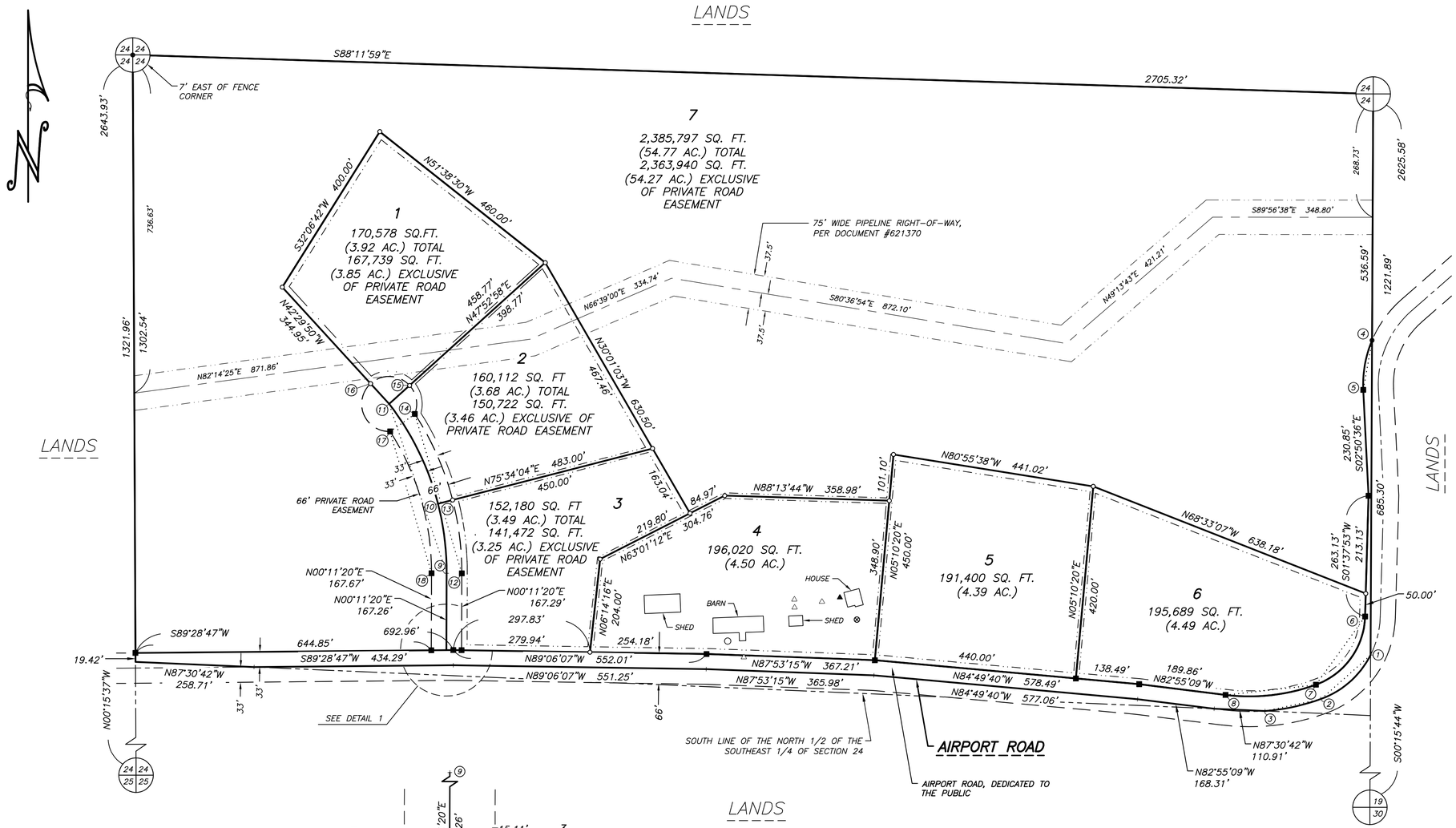
I, Robert A. Talarczyk, Professional Land Surveyor, hereby certify:

That in full compliance with the provisions of Chapter 236 of the Wisconsin Statutes and the subdivision regulations of the Town of New Glarus and Green County, and at the direction of Carol Holmes, I have surveyed, divided, and mapped Holmes Development; that such Plat correctly represents all exterior boundaries and the subdivision of land surveyed; and that this land is located in that part of the Northwest and Northeast 1/4s of the Southeast 1/4 of Section 24, Town 4 North, Range 7 East, Town of New Glarus, Green County, Wisconsin, bounded and described as follows:

Beginning at the East 1/4 corner of said Section 24; thence S00°15'44"W along the East line of Section 24, 1221.89' to the centerline of Airport Road; thence Southwesterly, 147.71' along said centerline and the arc of a curve to the right whose radius is 196.00' and whose chord bears S48°23'25"W, 144.24'; thence Southwesterly, 125.55' along said centerline and the arc of curve to the right whose radius is 456.00' and whose chord bears S77°52'04"W, 125.15' to the South line of the North 1/2 of the Southeast 1/4 of Section 24; thence N87°30'42"W along the South line of the North 1/2 of the Southeast 1/4 of Section 24, 110.91' to the centerline of Airport Road; thence N82°55'09"W along said centerline, 168.31'; thence N84°49'40"W along said centerline, 577.06'; thence N87°53'15"W along said centerline, 365.98'; thence N89°06'07"W along said centerline, 551.25'; thence S89°28'47"W along said centerline, 434.29' to the South line of the North 1/2 of the Southeast 1/4 of Section 24; thence N87°30'42"W, 258.71' to the Southwest corner of the North 1/2 of the Southeast 1/4 of Section 24; thence N00°15'37"W, 1321.96' to the center of Section 24; thence S88°11'59"E, 2705.32' to the point of beginning; subject to a public road right of way as shown and to any and all easements of record.

Dated this 30th day of January, 2023.

Robert A. Talarczyk, P.L.S.

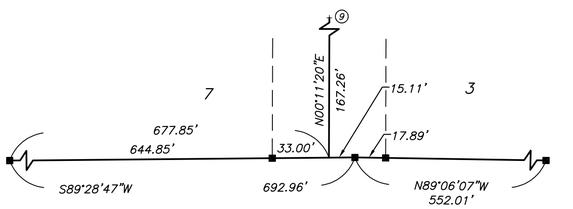


LEGEND:

- Cast aluminum monument found
- Cast aluminum monument with brass cap found
- 3/4" solid round iron rod found
- 3/4" X 24" solid round iron rod set, weighing 1.50 lbs per lineal foot
- 1-1/4" x 24" solid round iron rod set, weighing 4.30 lbs per lineal foot
- Well
- Septic cover
- Septic vent
- New 12' wide utility easement
- New 12' wide utility easement
- New 12' wide utility easement, 6' on either side of lot line

NOTES:
1.) Bearings are referenced to the Wisconsin County Coordinate System, Green County Zone, NAD83 (2011), in which the East line of the Southeast 1/4 of Section 24 bears S00°15'44"W.

WISCONSIN ROBERT A. TALARCZYK S-2323 NEW GLARUS WI LAND SURVEYOR
January 30, 2023



DETAIL 1
(SCALE 1" = 50')

LINE TABLE

LINE	BEARING	DISTANCE
11-15	N47°52'58"E	60.00'
16-11	S42°29'50"E	60.00'
10-13	N75°34'04"E	33.00'

150 0 150
SCALE: 1" = 150'

PREPARED FOR:
Carol Holmes
W4988 Airport Road
New Glarus, WI 53574
(608) 527-2466

JOB NO. 22031
POINTS 22031
DRWG. 22031_2
DRAWN BY FLS

This instrument drafted by Talarczyk Land Surveys LLC.

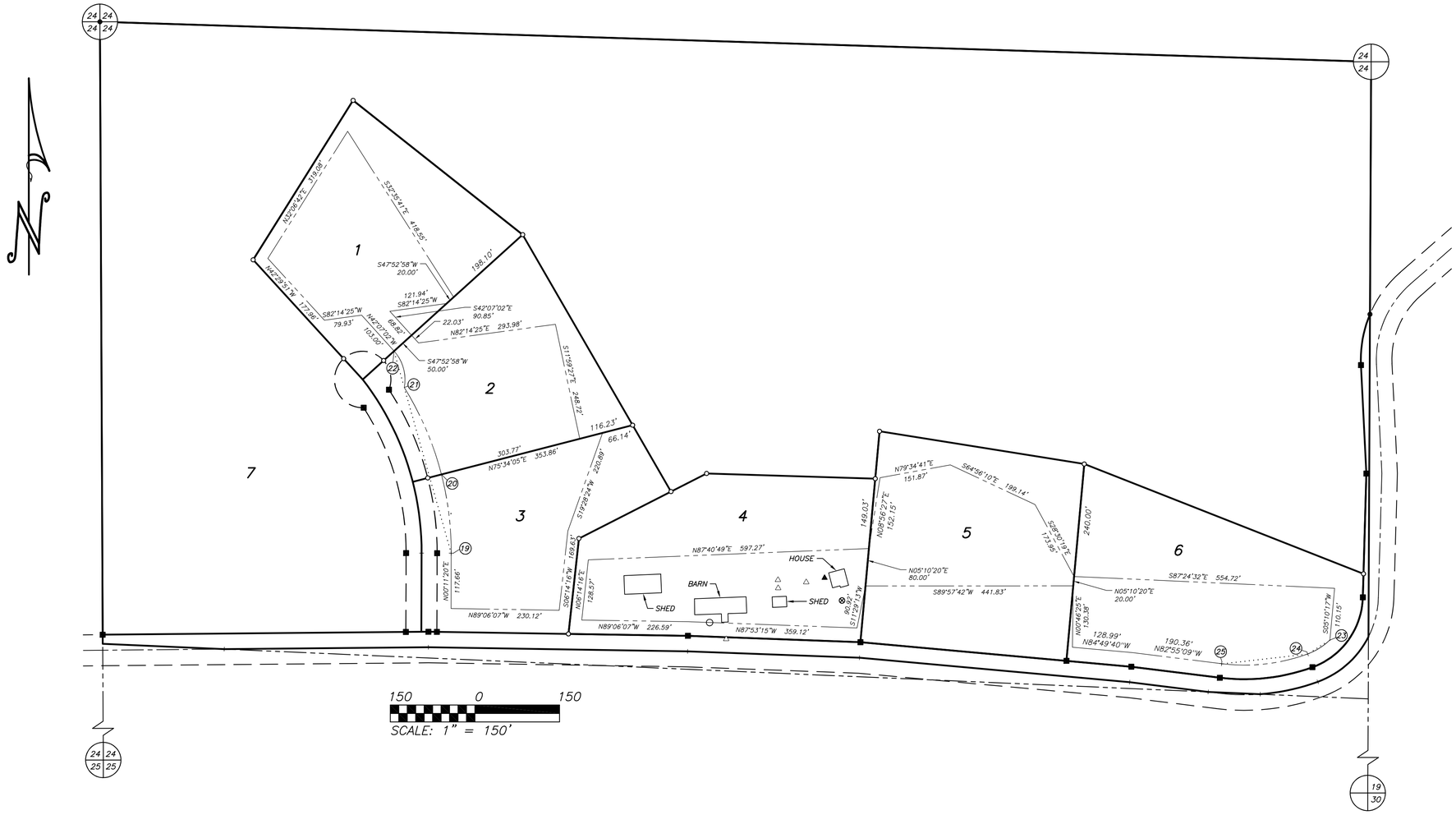
SHEET 1 OF 3

TALARCZYK LAND SURVEYS LLC
517 2nd Avenue
New Glarus, WI 53574
608-527-5216
www.talarczyksurveys.com

HOLMES FINAL PLAT

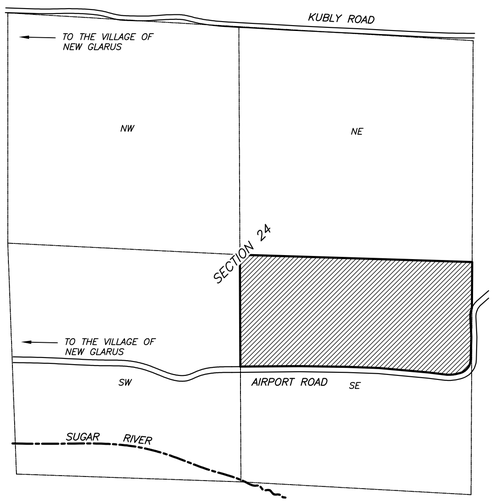
Part of the Northwest and Northeast 1/4s of the Southeast 1/4 of Section 24, Town 4 North, Range 7 East, Town of New Glarus, Green County, Wisconsin.

CLUSTER ENVELOPES



2.00 ACRE CLUSTER ENVELOPE

LOCATION MAP



WISCONSIN ROBERT A. TALARCZYK S-2323 NEW GLARUS WI LAND SURVEYOR

January 30, 2023

CURVE TABLE

CURVE	LOT	RADIUS	ARC	DELTA	CHORD	CHORD BEARING	TAN.BEARING–IN	TAN.BEARING–OUT
1–2	6	196.00'	147.71'	43°10'48"	144.24'	S48°23'25"W	S26°48'01"W	S69°58'49"W
2–3	6	456.00'	125.55'	15°46'30"	125.15'	S77°52'04"W	S69°58'49"W	S85°45'19"W
4–5	7	246.00'	110.53'	25°44'36"	109.60'	S10°01'42"W	S22°53'59"W	
6–7	6	163.00'	194.44'	68°20'56"	183.12'	S35°48'21"W		S69°58'49"W
7–8	6	423.00'	200.08'	27°06'02"	198.22'	S83°31'50"W	S69°58'49"W	
9–11		600.00'	396.87'	37°53'56"	389.68'	N18°45'38"W		N37°42'36"W
9–10	3	600.00'	153.11'	14°37'16"	152.70'	N07°07'18"W		
10–11	2	600.00'	243.76'	23°16'40"	242.09'	N26°04'16"W		
12–14		633.00'	367.22'	33°14'20"	362.09'	N16°25'50"W		N33°03'00"W
12–13	3	633.00'	161.53'	14°37'16"	161.10'	N07°07'18"W		
13–14	2	633.00'	205.69'	18°37'04"	204.78'	N23°44'28"W		
14–17		60.00'	307.04'	293°12'00"	66.06'	S54°41'04"W	N21°17'04"E	N88°05'04"E
14–15	1	60.00'	94.65'	90°22'48"	85.13'	N87°18'26"W		
15–16	7	60.00'	146.00'	139°25'06"	112.55'	S22°12'23"E		
16–17	2	60.00'	66.39'	63°24'06"	63.06'	N10°24'59"W		
17–18	7	567.00'	326.32'	32°58'30"	321.84'	S16°17'55"E	S32°47'10"E	
19–21		663.00'	370.95'	32°03'28"	366.13'	N15°50'24"W		N31°52'08"W
19–20	3	663.00'	169.18'	14°37'16"	168.73'	N07°07'18"W		
20–21	2	663.00'	201.77'	17°26'12"	200.99'	N23°09'02"W		
21–22	2	90.00'	83.21'	52°58'26"	80.28'	N15°37'49"W	N10°51'24"E	N42°07'02"W
23–24	6	133.00'	56.47'	24°19'38"	56.05'	S57°49'00"W	S45°39'11"W	S69°58'49"W
24–25	6	393.00'	185.89'	27°06'02"	184.16'	S83°31'50"W	S69°58'49"W	N82°55'09"W

PREPARED FOR:
Carol Holmes
W4988 Airport Road
New Glarus, WI 53574
(608) 527–2466

JOB NO. 22031
POINTS 22031
DRWG. 22031_2
DRAWN BY FLS

TALARCZYK LAND SURVEYS LLC
517 2nd Avenue
New Glarus, WI 53574
608-527-5216
www.talarczyksurveys.com

This instrument drafted by Talarczyk Land Surveys LLC.

HOLMES FINAL PLAT

Part of the Northwest and Northeast 1/4s of the Southeast 1/4 of Section 24, Town 4 North, Range 7 East, Town of New Glarus, Green County, Wisconsin.

OWNER'S CERTIFICATE OF DEDICATION:
As owner, I hereby certify that I have caused the land described on this Plat to be surveyed, divided, mapped and dedicated as represented hereon. I also certify that this map is required by s.236.10 or s.236.12 to be submitted to the following for approval or objection: The Town of New Glarus, The Village of New Glarus, The County of Green, and the Wisconsin Department of Administration.

WITNESS the hand and seal of said owner this _____ day of _____, 20_____.
In the presence of:

_____
Carol L. Holmes

STATE OF WISCONSIN)
_____ COUNTY) SS
Personally came before me this _____ day of _____, 20_____, the above named Carol L. Holmes to me known to be the same person who executed the foregoing instrument and acknowledged the same.

_____
My commission expires _____.

TOWN TREASURER'S CERTIFICATE:
STATE OF WISCONSIN)
_____ COUNTY) SS
I, John Wright, being the duly elected qualified and acting town clerk–treasurer of the Town of New Glarus, do hereby certify in accordance with the records of my office, there are no unpaid taxes or unpaid special assessments as of this _____ day of _____, 20_____, on any of the land included in the plat of Holmes Development.

_____
Town Treasurer

TOWN BOARD APPROVAL CERTIFICATE:
Resolved, that the plat of Holmes Development in the Town of New Glarus is hereby approved by the town board.

_____, 20_____ _____
Town Chair

I hereby certify that the foregoing is a copy of a resolution adopted by the town board of the Town of New Glarus.

_____, 20_____ _____
Town Clerk

VILLAGE APPROVAL: Approved for recording this _____ day of _____, 20_____ by the Village of New Glarus.

_____
Village Clerk

PREPARED FOR:
Carol Holmes
W4988 Airport Road
New Glarus, WI 53574
(608) 527–2466

JOB NO. 22031
POINTS 22031
DRWG. 22031_2
DRAWN BY FLS

HILLSIDE PROTECTION

COUNTY TREASURER'S CERTIFICATE:
STATE OF WISCONSIN)
_____ COUNTY) SS
I, Sherri A. Hawkins, being the duly elected qualified and acting treasurer of the County of Green, do hereby certify in accordance with the records of my office, there are no unpaid taxes or unpaid special assessments as of this _____ day of _____, 20_____, on any of the land included in the plat of Holmes Development.

_____, 20_____ _____
County Treasurer

GREEN COUNTY LAND USE & ZONING APPROVAL CERTIFICATE:
Resolved, that the plat of Holmes Development in the Town of New Glarus is hereby approved by the Green County Land Use and Zoning Department.

_____, 20_____ _____
Zoning Administrator

REGISTER OF DEEDS CERTIFICATE:
Received for record this _____ day of _____, 20_____ at _____ o'clock ____.M. and recorded in Volume _____ of Plats on Pages _____.

_____
Register of Deeds

WISCONSIN
ROBERT A. TALARCZYK
S–2323
NEW GLARUS
WI
LAND SURVEYOR

January 30, 2023

TALARCZYK
LAND SURVEYS LLC
517 2nd Avenue
New Glarus, WI 53574
608-527-5216
www.talarczyksurveys.com

This instrument drafted by Talarczyk Land Surveys LLC.

VILLAGE OF NEW GLARUS ENVIRONMENTAL ASSESSMENT CHECKLIST FOR SUBDIVISIONS AND LAND DIVISIONS BY CERTIFIED SURVEY

Project Name: Carol Holmes Final Plat (Name TBD)
Applicant's Name: Carol Holmes

All "Yes" answers must be explained in detail by attaching maps and supportive documentation describing the impacts of the proposed development/land division.

LAND RESOURCES

Does the project site involve any of the following:
(If "yes", how does the developer propose to address the matter?)

	Yes	No
Changes in relief and drainage patterns? If yes, attach two (2) copies of: ☐ A topographic map showing, at a minimum, two (2) foot contour intervals.		X
A floodplain? If yes, attach two (2) copies of: ☐ A typical stream valley cross-section showing 1) the channel of the stream; 2) the 100-year floodplains limits and 3) floodway limits [if officially adopted] of each side of the channel; AND ☐ A cross-section of the area to be developed		X
An area of soil instability - greater than 20% slope and/or organic soils, peats, or mucks at or near the surface?		X
Prime agricultural land (Class I, II, or III soils)?	X	
Wetlands and mapped environmental corridors? Small wetland in SW cor. of Lot 7, which is green space.	X	
Unique physical features or wildlife habitat?		X

WATER RESOURCES

Does the proposed project involve any of the following:

Location within the area traversed by a navigable stream or dry run?		X

HUMAN AND SCIENTIFIC INTEREST

Does the project site involve any of the following:

An area of archeological or geological interest?		X
An area of historical interest?		X
An area of buildings or monuments with unique architecture?		X
Unique, uncommon, or rare plant or animal habitats?		X
Mature native tree species?	X	

ENERGY, TRANSPORTATION AND COMMUNICATIONS		
Does the development encompass any future street appearing on the Village of New Glarus Official Map?		X
Is the development traversed by an existing or planned utility corridor (gas, electricity, water, sewer interceptor, communications, storm sewer)? Gas	X	
VILLAGE PLANNING		
Is the development consistent with the Village Master Plan and other adopted planning documents?		X

Please provide any other relevant information below:

2/17/23
Date

Robert A. Falanga Jr, Agent
Applicant Signature

Rev. 7/2011

vierbicher
planners | engineers | advisors

999 Fourier Drive, Suite 201
Madison, WI 53717
(608) 826-0532 phone
(608) 826-0530 fax
www.vierbicher.com

March 13, 2022 Should be 2023

Members Town Board
Town of New Glarus
26 Fifth Avenue
New Glarus, WI 53574

Re: Final Plat Review Status – Carol Holmes Property
Town of New Glarus

Dear Chair Narveson and Town Board Members:

I am writing regarding the status of the final plat and supplemental plans and documents prepared on behalf of Carol Holmes by Talarczyk Land Surveys. The Final Plat is in substantial conformance with the Preliminary Plat provided and creates 6 clustered lots including the existing farmhouse. Two new lots and the existing farmhouse would create one cluster taking access off Airport Road. A second cluster of three new lots will take access using a shared private road intersecting with Airport Road. The overall plat area is listed at 81.45 acres. Using cluster density provisions, the development can support the creation of 6 buildable clustered lots (5 new lots and the existing homestead). The development requires deed restriction for 69.23 acres of open space.

The above referenced Final Plat was received in our office on February 1, 2023. We received a Private Road Maintenance Agreement on February 9, 2023, and construction plans for the Private Road on February 22, 2023 After reviewing the documents, we have the following comments regarding the current Plat status and items for the Application to complete with the Final Plat document prior to presenting for Town Board signature:

<u>Resolution of Preliminary Plat Comments</u>

The conditional approval of the Preliminary Plat included the following items: **(current status in bold):**

1. Lands that are to be deed restricted to meet the requirements for Open Space should be identified. **This has not been shown on the Final Plat. The Applicant should add "Open Space" designations to the areas outside of the Cluster Envelopes shown on Page 2 and add the following notes on Page 2:**
    a. **"All areas designated as "Open Space" shall be left undeveloped and free from residential, commercial, or Industrial structures. Permitted uses of Open Space are agriculture, recreation, passive recreation use, and preservation of environmentally sensitive features."**
    b. **"All buildings shall be limited to placement within the Building Envelopes shown. Additional building setbacks per the Green County Zoning Code shall also be met."**
2. A vision corner along the eastern edge of Lot 6 should be included on the Plat. **We provided directions to the surveyor regarding the desired location of this and anticipate that it will be added with the next iteration of the Plat.**

Private Road Construction Plans

Conditional approval of the Preliminary Plat required the following items be amended and submitted with the Final Plat **(current status in bold):**

1. Provide stationing along the driveway centerline in the plan view so the profile can be correlated to the plan. **Completed.**
2. The lot lines and private drive easement lines should be correlated between the engineering plans and the Plat. **Completed.**
3. Calculations demonstrating that the proposed 18" pipe for the private drive access to Airport Road should be provided. **Incomplete.** The Town should clarify if they would allow a HDPE (plastic) pipe to be used for driveway access or if the calculations should be based on CMP or concrete. **HDPE Pipe is acceptable, please confirm pipe size for 10-year storm event.**
4. The drainage within the Town right-of-way needs to be clarified to evaluate if the drainage ditch along Airport Road will need to be deepened to allow proper drainage. **Completed**
5. The proposed low point along the private drive outside of the right-of-way does not appear to drain to Airport Road. This should be clarified. **Completed.**

Other Considerations:

1. Open Space Deed Restrictions. The development team will need to prepare deed restrictions for the open space required. These documents should be prepared and reviewed with the Final Plat documents and in effect be ready for recording with the Plat. **Incomplete. A sample of the desired deed restriction document is attached for use by the Applicant.**

2. Private Road Easement. The terms and conditions of the private road easement should be included for review with the Final Plat submittal. It would be wise to coordinate the requirements for long driveways as this road is constructed. **Draft submitted needs adjustments. A draft of the proposed Private Road Maintenance Agreement was provided and as written meets the needs of the site. It needs to be presented in a form that can be recorded at the Register of Deeds immediately following the Final Plat.**

Should you have any questions please feel free to contact me.

Sincerely,

Timothy L. Schleeper, PE

Enclosures

Cc: John Wright, Clerk, Town of New Glarus
Robert Talarczyk, Talarczyk Land Surveys, LLC

M:\New Glarus, Town of\170068 Land Division Reviews\Task 22 - Carol Holmes\Reviews\2023-03-13 Update\2023-03-13 C_Holmes_FinalPlat_Update.docx

State of Wisconsin / DEPARTMENT OF NATURAL RESOURCES

Tony Evers, Governor
Adam N. Payne, Secretary
Telephone 608-266-2621
Toll Free 1-888-936-7463
TTY Access via relay - 711

101 S. Webster St.
Box 7921
Madison, WI 53707-7921

February 27, 2023

Robert A Talarczyk
Talarczyk Land Surveys LLC
517 2nd Ave
New Glarus, WI 53574

SUBJECT: Endangered Resources Review (ERR Log # 23-115)
Proposed Holmes Development, Green County, WI (T04N R07E S24, T04N R08E S19)

Dear Robert A Talarczyk,

The Bureau of Natural Heritage Conservation has reviewed the proposed project described in the Endangered Resources (ER) Review Request received February 22, 2023. The complete ER Review for this proposed project is attached and follow-up actions are summarized below:

Required Actions: 0 species
Recommended Actions: 3 species
No Follow-Up Actions: 2 species
Additional Recommendations Specified: Yes

This ER Review may contain Natural Heritage Inventory data (http://dnr.wi.gov/topic/NHI), including specific locations of endangered resources, which are considered sensitive and are not subject toWisconsin's Open Records Law. Information contained in this ER Review may be shared with individuals who need this information in order to carry out specific roles in the planning, permitting, and implementation of the proposed project. **Specific locations of endangered resources may not be released or reproduced in any publicly disseminated documents.**

The attached ER Review is for informational purposes and only addresses endangered resources issues. **This ER Review does not constitute DNR authorization of the proposed project and does not exempt the project from securing necessary permits and approvals from the DNR and/or other permitting authorities.** Please contact the ER Review Program whenever the project plans change, new details become available, or more than a year has passed to confirm if results of this ER Review are still valid.

Please contact me at 608-264-8968 or via email at anna.rossler@wi.gov if you have any questions about this ER Review.

Sincerely,

Anna Rossler
Endangered Resources Review Program

cc:

Section A. Location and brief description of the proposed project

Based on information provided by the ER Review Request form and attached materials, the proposed project consists of the following:

Location	Green County - T04N R07E S24, T04N R08E S19
Project Description	This plat is being prepared for estate planning purposes. Carol Holmes is in her 80s, lives in the farmhouse on Lot 4 and wishes to plan out her development rights for her estate. There is no plan to develop any part of this plat at this time other than Lot 5 on which Carol wishes to build a new home and live with one of her two daughters. Lots 1-6 can be built on and Lot 7 has to remain in cultivation and greenspace.
Project Timing	3/1/23-10/1/23
Current Habitat	Approximately 65% in active agriculture- currently corn and alfalfa and 35% in woodland.
Impacts to Wetlands or Waterbodies	There is a small wetland area near the SW corner of Lot 7 at the culvert that delivers water under Airport Road. This area will remain undisturbed. Ward Creek is not on the property but is near the NE corner of Lot 7.
Property Type	Private
Federal Nexus	No

It is best to request ER Reviews early in the project planning process. However, some important project details may not be known at that time. Details related to project location, design, and timing of disturbance are important for determining both the endangered resources that may be impacted by the project and any necessary follow-up actions. Please contact the ER Review Program whenever the project plans change, new details become available, or more than a year has passed to confirm if results of this ER Review are still valid.

Section B. Endangered resources recorded from within the project area and surrounding area

	Group	State Status	Federal Status
Rusty Patched Bumble Bee Federal High Potential Zone	Bee	NA	HPZ
Pickerel Frog *(Lithobates palustris)*	Frog~	SC/H	
Prairie Parsley *(Polytaenia nuttallii)*	Plant	THR	
Glade Mallow *(Napaea dioica)*	Plant~	SC	
Whip Nutrush *(Scleria triglomerata)*	Plant~	SC	

For additional information on the rare species, high-quality natural communities, and other endangered resources listed above, please visit our Biodiversity (http://dnr.wi.gov/topic/EndangeredResources/biodiversity.html) page. For further definitions of state and federal statuses (END=Endangered, THR=Threatened, SC=Special Concern), please refer to the Natural Heritage Inventory (NHI) Working List (http://dnr.wi.gov/topic/nhi/wlist.html).

Section C. Follow-up actions

Actions that need to be taken to comply with state and/or federal endangered species laws: None

Actions recommended to help conserve Wisconsin's Endangered Resources:

• Rusty Patched Bumble Bee Federal High Potential Zone - Bee

State Status: NA**Federal Status:** HPZ

Impact Type	Impact possible
Recommended Measures	Other
Description of Recommended Measures	This project occurs within the Rusty Patched Bumble Bee Federal High Potential Zone. While active agriculture is not considered suitable habitat, habitat may be present in the wooded and unmaintained areas. Take of the bee is prohibited per the federal Endangered Species Act. However, because this project has no federal nexus, follow-up actions are recommended and not required. Recommended follow-up actions for the Rusty patched bumble bee include following the conservation measures outlined in the USFWS Conservation Management Guidelines for the Rusty Patched Bumble Bee (Bombus affinis) document. (https://www.fws.gov/midwest/endangered/insects/rpbb/pdf/ConservationGuidanceRPBBv1_27Feb2018.pdf).): For tree clearing/thinning conservation measures include but are not limited to: • Implement best management practices (BMPs),especially those that serve to minimize the spread of invasive species and to avoid or minimize soil compaction. Visit (https://www.stateforesters.org/newsroom/state-forestry-bmps/)for up to date information about BMP recommendations by state. • Avoid or minimize soil disturbance and heavy equipment operation during overwintering (mid October- mid March) • Avoid or minimize forest management that may destroy spring blooming flowers during their bloom periods. • Consider thinning or single tree selection and dense invasive shrub removal that may improve overwintering and spring foraging habitat. For all other activities conservation measures include but are not limited to: • use native trees, shrubs and flowering plants in landscaping, • provide plants that bloom from spring through fall (refer to the USFWS RPBB Midwest Plant Guide), • remove and control invasive plants in any habitat used for foraging, nesting, or overwintering • Avoid impacts to existing suitable habitat

• Glade Mallow (*Napaea dioica*) - Plant~

State Status: SC

Impact Type	Impact possible
Recommended Measures	Surveys
Description of Recommended Measures	Suitable habitat for the Glade Mallow may be present in portions of the project site. Although not required because Special Concern species are not legally protected, we recommend that you avoid or minimize take of the Glade Mallow. Avoidance and minimization efforts may include site surveys to confirm presence/absence of species and fencing off areas of occupied habitat. Survey results should be submitted to the Endangered Resources Review Program. Glade Mallow (Napaea dioica), a Wisconsin Special Concern plant, is found in alluvial meadows, ditches, and forest margins near large rivers. Blooming occurs early June through early August; fruiting occurs early August through late September. The optimal identification period for this species is early July through late August.

• Whip Nutrush (*Scleria triglomerata*) - Plant~

State Status: SC

Impact Type	Impact possible
Recommended Measures	Surveys
Description of Recommended Measures	Suitable habitat for the Whip Nutrush may be present in portions of the project site. Although not required because Special Concern species are not legally protected, we recommend that you avoid or minimize take of the Whip Nutrush. Avoidance and minimization efforts may include site surveys to confirm presence/absence of species and fencing off areas of occupied habitat. Survey results should be submitted to the Endangered Resources Review Program. Whip Nutrush (Scleria triglomerata), a Wisconsin Special Concern plant, is found on the sunny margins between jack pine/Hill's oak barrens and wet, acid ditches. Blooming occurs late June through late July; fruiting occurs early July through late August. The optimal identification period for this species is early July through late August.

Remember that although these actions are not required by state or federal endangered species laws, they may be required by other laws, permits, granting programs, or policies of this or another agency. Examples include the federal Migratory Bird Treaty Act, Bald and Golden Eagle Protection Act, State Natural Areas law, DNR Chapter 30 Wetland and Waterway permits, DNR Stormwater permits, and Forest Certification.

Additional Recommendations

Please note that plastic or polypropylene netting associated with erosion matting (also known as an erosion control blankets or erosion mesh netting) without independent movement of strands can easily entrap snakes and other wildlife moving through the area, and cause dehydration, desiccation, and eventually mortality. Biodegradable jute/twine netting with the “leno” or “gauze” weave (contains strands that are able to move independently) has the least impact on snakes.

If erosion matting will be used for this project, use the following matting (or something similar): American Excelsior “FibreNet” or “NetFree” products; East Coast Erosion biodegradable jute products; Erosion Tech biodegradable jute products; ErosionControlBlanket.com biodegradable leno weave products; North American Green S75BN, S150BN, SC150BN or C125BN; or Western Excelsior “All Natural” products.

No actions are required or recommended for the following endangered resources:

• Pickerel Frog (*Lithobates palustris*) - Frog~

State Status: SC/H

Impact Type	No impact or no/low broad ITP/A
Reason	Lack of Suitable Habitat within Project Boundary
Justification	It is unlikely that suitable habitat is present at the project site. No impacts are anticipated. Pickerel Frog (Lithobates palustris), a species of Special Concern in Wisconsin, has a rather complex habitat range as it prefers to overwinter in cold water streams, seepage pools or spring holes, often taking advantage of water cress for cover. It moves to warmer water ponds to breed and lay eggs from April through mid-June. Adults spend most of the active season foraging on land in riparian habitats along streams and rivers.

• Prairie Parsley (*Polytaenia nuttallii*) - Plant

State Status: THR

Impact Type	No impact or no/low broad ITP/A
Reason	Lack of Suitable Habitat within Project Boundary
Justification	The project site is wooded and agricultural land. It is unlikely that suitable habitat is present at the project site. No impacts are anticipated. Prairie Parsley (Polytaenia nuttallii), a Wisconsin Threatened plant, is found in prairies and persisting in open areas that were once savannas.

Section D. Next Steps

1. Evaluate whether the **'Location and brief description of the proposed project'** is still accurate. All recommendations in this ER Review are based on the information supplied in the ER Review Request. If the proposed project has changed or more than a year has passed and you would like your letter renewed, please contact the ER Review Program to determine if the information in this ER Review is still valid.
2. Determine whether the project can incorporate and implement the **‘Follow-up actions’** identified above:
   - 'Actions that need to be taken to comply with state and/or federal endangered species laws' represent the Department's best available guidance for complying with state and federal endangered species laws based on the project information that you provided and the endangered resources information and data available to us. If the proposed project has not changed from the description that you provided us and you are able to implement all of the 'Actions that need to be taken to comply with state and/or federal endangered species laws', your project should comply with state and federal endangered species laws. Please remember that if a violation occurs, the person responsible for the taking is the liable party. Generally this is the landowner or project proponent. For questions or concerns about individual responsibilities related to Wisconsin’s Endangered Species Law, please contact the ER Review Program.
   - If the project is unable to incorporate and implement one or more of the 'Actions that need to be taken to comply with state and/or federal endangered species laws' identified above, the project may potentially violate one or more of these laws. Please contact the ER Review Program immediately to assist in identifying potential options that may allow the project to proceed in compliance with state and federal endangered species laws.
   - 'Actions recommended to help conserve Wisconsin’s Endangered Resources’ may be required by another law, a policy of this or another Department, agency or program; or as part of another permitting, approval or granting process. Please make sure to carefully read all permits and approvals for the project to determine whether these or other measures may be required. Even if these actions are not required by another program or entity for the proposed project to proceed, the Department strongly encourages the implementation of these conservation measures on a voluntary basis to help prevent future listings and protect Wisconsin’s biodiversity for future generations.

3. If federally-protected species or habitats are involved and the project involves federal funds, technical assistance or authorization (e.g., permit) and there are likely to be any impacts (positive or negative) to them, consultation with USFWS will need to occur prior to the project being able to proceed. If no federal funding, assistance or authorization is involved with the project and there are likely to be adverse impacts to the species, contact the USFWS Twin Cities Ecological Services Field Office at 612-725-3548 (x2201) for further information and guidance.

Section E. Standard Information to help you better understand this ER Review

Endangered Resources (ER) Reviews are conducted according to the protocols in the guidance document Conducting Proposed Endangered Resources Reviews: A Step-by-Step Guide for Wisconsin DNR Staff.

How endangered resources searches are conducted for the proposed project area: An endangered resources search is performed as part of all ER Reviews. A search consists of querying the Wisconsin Natural Heritage Inventory (NHI) database for endangered resources records for the proposed project area. The project area evaluated consists of both the specific project site and a buffer area surrounding the site. A 1 mile buffer is considered for terrestrial and wetland species, and a 2 mile buffer for aquatic species. Endangered resources records from the buffer area are considered because most lands and waters in the state, especially private lands, have not been surveyed. Considering records from the entire project area (also sometimes referred to as the search area) provides the best picture of species and communities that may be present on your specific site if suitable habitat for those species or communities is present.

Categories of endangered resources considered in ER Reviews and protections for each: Endangered resources records from the NHI database fall into one of the following categories:

- Federally-protected species include those federally listed as Endangered or Threatened and Designated Critical Habitats. Federally-protected animals are protected on all lands; federally-protected plants are protected only on federal lands and in the course of projects that include federal funding (see Federal Endangered Species Act of 1973 as amended).
- Animals (vertebrate and invertebrate) listed as Endangered or Threatened in Wisconsin are protected by Wisconsin's Endangered Species Law on all lands and waters of the state (s. 29.604, Wis. Stats.).
- Plants listed as Endangered or Threatened in Wisconsin are protected by Wisconsin's Endangered Species Law on public lands and on land that the person does not own or lease, except in the course of forestry, agriculture, utility, or bulk sampling actions (s. 29.604, Wis. Stats.).
- Special Concern species, high-quality examples of natural communities (sometimes called High Conservation Value areas), and natural features (e.g., caves and animal aggregation sites) are also included in the NHI database. These endangered resources are not legally protected by state or federal endangered species laws. However, other laws, policies (e.g., related to Forest Certification), or granting/permitting processes may require or strongly encourage protection of these resources. The main purpose of the Special Concern classification is to focus attention on species about which some problem of abundance or distribution is suspected before they become endangered or threatened.
- State Natural Areas (SNAs) are also included in the NHI database. SNAs protect outstanding examples of Wisconsin's native landscape of natural communities, significant geological formations, and archeological sites. Endangered species are often found within SNAs. SNAs are protected by law from any use that is inconsistent with or injurious to their natural values (s. 23.28, Wis. Stats.).

Please remember the following:

1. This ER Review is provided as information to comply with state and federal endangered species laws. By following the protocols and methodologies described above, the best information currently available about endangered resources that may be present in the proposed project area has been provided. However, the NHI database is not all inclusive; systematic surveys of most public lands have not been conducted, and the majority of private lands have not been surveyed. As a result, NHI data for the project area may be incomplete. Occurrences of endangered resources are only in the NHI database if the site has been previously surveyed for that species or group during the appropriate season, and an observation was reported to and entered into the NHI database. As such, absence of a record in the NHI database for a specific area should not be used to infer that no endangered resources are present in that area. Similarly, the presence of one species does not imply that surveys have been conducted for other species. Evaluations of the possible presence of rare species on the project site should always be based on whether suitable habitat exists on site for that species.
2. This ER Review provides an assessment of endangered resources that may be impacted by the project and measures that can be taken to avoid negatively impacting those resources based on the information that has been provided to ER Review Program at this time. Incomplete information, changes in the project, or subsequent survey results may affect our assessment and indicate the need for additional or different measures to avoid impacts to endangered resources.
3. This ER Review does not exempt the project from actions that may be required by Department permits or approvals for the project. Information contained in this ER Review may be shared with individuals who need this information in order to carry out specific roles in the planning, permitting, and implementation of the proposed project.

VILLAGE OF NEW GLARUS
RESOLUTION R-23-4
PRELIMINARY RESOLUTION OF THE VILLAGE BOARD OF THE VILLAGE OF NEW GLARUS, GREEN COUNTY, WISCONSIN PURSUANT TO SECTION 66.0703 OF THE WISCONSIN STATUTES RELATING TO SPECIAL ASSESSMENTS AND CHARGES

The Village Board of the Village of New Glarus, Green County, Wisconsin, hereby resolves:

WHEREAS, the Village Board having considered the need for improvements in 2023 on the following street:

- Third Avenue between Third Street and Eighth Street

WHEREAS, the Village intends to replace or add to portions of the sanitary sewer, storm sewer, water main, street base course and asphalt prior to replacing or adding to portions of curb and gutter and sidewalk;

NOW THEREFORE, it is hereby resolved that the Village of New Glarus declares its intent to exercise the police powers conferred upon the Village by Section 66.0703 to levy and collect special assessments against the properties benefited by the improvements referred to herein which improvements shall include replacing or adding to portions of the sanitary sewer, storm sewer, water main, street base course, asphalt, curb and gutter and sidewalk located within the Village: THIRD AVENUE BETWEEN THIRD STREET AND EIGHTH STREET.

A statement of the expected property owners involved, with tax parcel numbers is attached hereto and made a part of this Resolution.

The special assessments may be repaid by the property landowners in the following manner: for special charges of Two Hundred Dollars ($200.00) or less, in cash without interest or fee within thirty (30) days after billing; or in one (1) annual installment on the property tax bill for the year incurred; and for special charges over Two Hundred Dollars ($200.00), in cash without interest or fee within thirty (30) days after billing; or in ten (10) annual installments, including interest at one (1) percent over prime in effect at the date of billing.

Strand Associates, Inc. is appointed engineer for this project and is hereby directed to make a report as required under Section 66.0703 of the Wisconsin Statutes as soon as reasonably possible.

The proportion of the cost of the concrete curb and gutter, curb and gutter removals, concrete sidewalk, and concrete sidewalk removals to be assessed against the property shall be 100 percent of the cost, including all associated costs allowed by law, as determined by the benefits to each property benefited, except as indicated in Section 10-4(C) of the Village of New Glarus Municipal Code.

This Resolution adopted the 21st day of March, 2023.

DATE: 3/21/23
ADOPTED: _____

_____
Roger Truttmann, President

_____
Deanna Young, Deputy Village Clerk

PROCEDURE FOR SPECIAL ASSESSMENTS-THIRD AVENUE PHASE II

Updated 3/15/23

Village Board Meeting 3/21/23

1. Prepare and adopt Preliminary Resolution – need Engineering report completed and included with Preliminary Resolution. Engineering report includes:
   a. Preliminary or final plans & specifications 3/23/23
   b. Estimate of entire proposed work or improvement3/23/23
   c. Proposed assessments3/23/23

2. Notice of hearing Post 4/15/23
   a) Class 1 notice Publish 4/7/23 for 4/14/23
   b) Hearing to be held not less than 10 days nor more than 40 days after publication
   c) Mail notice to proposed assessed property owners 10 days prior to hearing [include preliminary resolution for payment info AND preliminary estimate from Engineer] Mail 4/17/23
   d) POST PRELIMINARY ON WEBSITE
   e) Execute an affidavit of mailing

3. Hold Public Hearing Public Works/Public Safety 5/1/23
   Approve/modify or disapprove Engineering report at this meeting

   The Council shall then act on the Engineering Report. 5/16/23

4. After work has been completed-recalculate project costs per property owner

5. Adopt Final Resolution (Public Works/Public Safety and then Village Board)
   – publish as Class 1 Notice and mail to all interested persons
   Include on Final Resolution: Final cost
   Installment payment notice
   Provision for penalties
   Terms and Conditions

6. Prepare and Mail statements to each property owner
   a. 30 days to pay (or)
   b. Tax Roll with interest at 1% over prime

***Waivers of Notice and Hearing*
Section 66.60(18) Stats., provides that if every owner of property affected by the proposed special assessment executes a waiver, municipality may levy the assessment against the property without prior notice and hearing. Final resolution process must still be followed.

PROPOSED ASSESSED PROPERTIES - VILLAGE OF NEW GLARUS - THIRD AVENUE – PHASE 2

PARCEL #	NAME	Property Address	Mailing Address	City_St_ZIP
23161 0247.0000	New Glarus Bible Church	207 6th Street	207 6th Street	New Glarus, WI 53574
23161 0247.0000	New Glarus Bible Church	619 3rd Avenue	207 6th Street	New Glarus, WI 53574
23161 0243.1000	New Glarus Bible Church	OL 24A	207 6th Street	New Glarus, WI 53574
23161 0248.1400	Timothy & Mary Usher	701 3rd Avenue	701 3rd Avenue	New Glarus, WI 53574
23161 0248.1300	Rosalie Huntington	707 3rd Avenue	PO Box 631	New Glarus, WI 53574
23161 0248.1200	Shane & Danielle Tonn	300 8th Street	300 8th Street	New Glarus, WI 53574
23161 0220.1000	New Glarus Home Inc	701 Haslen Dr	600 2nd Avenue	New Glarus, WI 53574
23161 0779.0000	Linda K Hiland	801 3rd Avenue	801 3rd Avenue	New Glarus, WI 53574
23161 0292.0000	New Glarus Volunteer Fire Department Inc	219 3rd Avenue	PO Box 306	New Glarus, WI 53574
23161 0291.0100	New Glarus Fire District	218 4th Avenue	212 4th Avenue	New Glarus, WI 53574
23161 0290.0200	Village of New Glarus	312 4th Avenue	PO Box 399	New Glarus, WI 53574
23161 0282.0000	Delayne & Merton Retrum	401 3rd Avenue	401 3rd Avenue	New Glarus, WI 53574
23161 0261.1000	New Glarus/Dodgeville LIHTC LLC	301 5th Street	4801 Tradewinds Parkway	Madison, WI 53718
23161 0261.2000	Brian & Sally Jeglum	519 3rd Avenue	W5911 Durst Road	New Glarus, WI 53574
23161 0261.0000	Carolyn & Jeffrey Babler	506 3rd Avenue	PO Box 646	New Glarus, WI 53574
23161 0267.2000	Brenkman Living Trust	518 3rd Avenue	518 3rd Avenue	New Glarus, WI 53574
23161 0262.0000	Julie & Paul Jennrich	201 5th Street	201 5th Street	New Glarus, WI 53574

FEE : _____
PLUS COSTS

VILLAGE OF NEW GLARUS
APPLICATION FOR SITE PLAN APPROVAL

SUBMITTAL DATE: 2/16/2023

APPLICANT NAME: NEW GLARUS BREWING COMPANY
ADDRESS: 2400 WI-69, NEW GLARUS, WI 53574
TELEPHONE: 608-527-5850

SITE ADDRESS: 2400 WI-69, NEW GLARUS, WI 53574

DESCRIPTION OF SITE BY LOT, BLOCK AND RECORDED SUBDIVISION OR BY METES & BOUNDS: LOT 1 CSM 5337, VOL 26 PG 44 AS LOCATED IN DOCUMENT NUMBER 600373.

TYPE OF STRUCTURE: Current: BREWERY
Proposed: BREWERY WAREHOUSE ADDITION

PROPOSED OPERATION OR USE OF THE STRUCTURE OR SITE: WAREHOUSE FOR BREWERY
AND NUMBER OF EMPLOYEES: _____

PRESENT ZONING OF SITE: I-1 INDUSTRIAL DISTRICT

NOTICE TO APPLICANT:

ATTACH A DRAWING SHOWING ALL OF THE INFORMATION REQUIRED FOR A BUILDING/ZONING PERMIT AND EXISTING AND PROPOSED LANDSCAPING.

ACTUAL COSTS BILLED FOR VILLAGE CONSULTANTS WILL BE THE RESPONSIBILITY OF THE APPLICANT.

APPEALS. DENIALS OF BUILDING PERMITS CONTINGENT UPON SITE PLAN APPROVAL MAY BE APPEALED TO THE ZONING BOARD OF APPEALS BY FILING A NOTICE OF APPEAL WITH THE VILLAGE CLERK-TREASURER WITHIN 10 DAYS OF THE DENIAL.

_____
Applicant Signature

_____
Owner Signature if different

Municipal Ordinance
§ 118-2(C); § 305-94
Rev. 5/2012

PRESENTED TO BUILDING INSPECTOR: 2-23-23

REFERRED TO PLAN COMMISSION: 2-23-23

PLAN COMMISSION REVIEW: _____

DETERMINATION: APPROVE DENY DATE: _____

_____

Village Plan Commission Chairman

REFERRED TO VILLAGE BOARD: _____

DETERMINATION: REVERSE AFFIRM ALTERED

DATE: _____

IF ALTERED, HOW ALTERED: _____

_____

_____

_____

_____

Village President

GENERAL INFORMATION
CONSTRUCTION SITE EROSION CONTROL PERMIT APPLICATION

Send Application to:

Village of New Glarus
319 Second Street
New Glarus, WI 53574

Official Use Only

Date Received:_____
Fee Received:_____
Reviewer: _____

Instructions: Please type or print. Read all instructions before completing application.

Name of Project:
NEW GLARUS BREWING COMPANY - WAREHOUSE ADDITION

Applicant/Entity Receiving Permit:

Name of Applicant: NEW GLARUS BREWING COMPANY
Contact-First Name: KATHERINE Last Name: MAY
Address: 2400 WI-69
City: NEW GLARUS State: WI ZIP: 53574
Telephone: 608-527-5850
Fax: _____

Property Owner:

Name: NEW GLARUS BREWING COMPANY
Address: 2400 WI-69
City: NEW GLARUS State: WI ZIP: 53574`
Telephone: 608-527-5850
Fax: _____

Engineer (Where Applicable):

Name of Firm: FEHR GRAHAM
Contact: JESSE DUFF, PE
Address: 1107 16TH AVE
City: MONROE State: WI ZIP: 53566
Telephone: 608-329-6400
Fax: _____

VILLAGE OF NEW GLARUS
CONSTRUCTION SITE EROSION CONTROL PLAN
APPLICATION CHECKLIST
(SITES<ONE ACRE)

Project Name: NEW GLARUS BREWING COMPANY - WAREHOUSE ADDITION
Permit #: _____
Date: _____

Please check the appropriate box: I=Included; N/A=Non-Applicable
(If N/A is checked, an explanation must be entered)

PLAN REQUIREMENT	I	N/A	EXPLANATION//LOCATION IN PLAN
A. Submittal Requirements			
1. Permit Application Form	X		
B. Site Drawing			
1. North Arrow	X		ALL SHEETS
2. Delineation of Proposed Land Disturbance Area	X		EROSION CONTROL PLAN
3. Existing/Proposed Site Information	X		EXISTING CONDITIONS/SITE LAYOUT PLAN
a. Building, roads, access drives	X		SITE LAYOUT PLAN
b. Property lines	X		SITE LAYOUT PLAN
c. Drainage Ways	X		GRADING PLAN
d. Water bodies		X	NO WATER BODIES WITHIN DISTURBANCE
e. Trees	X		TREELINE SHOWN ON ALL SHEETS
f. Culverts	X		UTILITIES PLAN
g. Other structures within 50 feet of prop. Disturbance	X		SURVEY EXTENDS 50 FEET BEYOND DISTURBANCE
h. Direction/Grade of slopes before/after distrubance	X		GRADING PLAN
F. Narrative			
1. Description of site and nature of construction activity	X		STORMWATER MEMO
2. Construction start and end dates	X		STORMWATER MEMO
3. Description and locatioan of all temporary control practices	X		EROSION CONTROL PLAN

VILLAGE OF NEW GLARUS

CONSTRUCTION SITE EROSION CONTROL PERMIT NO. _____

Date of Application 2/16/2023

Site Address 2400 WI-69, NEW GLARUS, WI 53574

Plat Name _____

Certified Survey Map CSM 5337 (V26-P44) AS LOCATED IN DOCUMENT NUMBER 600373.

Lots No. (s) LOT 1

Permit Conditions:

(a) Permittee shall notify the Village Administrator 48 hours prior to commencing any land disturbing construction activity.

(b) Permittee shall notify the Village Administrator of practice installation within 5 days of installation.

(c) Permittee shall obtain permission in writing from the Village Administrator prior to any modification pursuant to S.08(2) of the erosion and sediment control ordinance.

(d) Permittee shall install all practices as identified in the approved erosion and sediment control plan.

(e) Permittee shall maintain all road drainage systems, stormwater drainage systems, BMPs and other facilities identified in the erosion and sediment control plan.

(f) Permittee shall repair any siltation or erosion damage to adjoining surfaces and drainage ways resulting from land disturbing construction activities and document repairs in a site erosion control log. Remove accumulated sediment from downstream culverts, storm sewers, and other drainage facilities.

(g) Permittee shall inspect the practices within 24 hours after each rain of 0.5 inches or more which results in runoff during active construction periods, and at least once each week, make needed repairs and document the findings of the inspections in a site erosion control log with the date of inspection, the name of the person conducting the inspection, and a description of the present phase of the construction at the site.

(h) Permittee shall allow the Village Administrator to enter the site for the purpose of inspecting compliance with the erosion and sediment control plan or for performing any work necessary to bring the site into compliance with the control plan. Permittee shall keep a copy of the erosion and sediment control plan at the construction site.

APPLICANT MUST FILL IN BOXED AREA

Owner _____

(please print or type full name)

Address 2400 WI-69

NEW GLARUS, WI 53574

_____

Signature or Owner or Authorized Representative

Area of Land Disturbance (Square Feet) 68,850

SPECIAL CONDITIONS: _____

_____

_____

_____

CONDITIONAL APPROVAL: _____

Administrative Authority Title Date

Permits issued under this section shall be valid for a period of 180 days, or the length of the building permit or other construction authorizations, whichever is longer, from the date of issuance. The Village Administrator may extend the period one or more times for up to an additional 180 days. The Village Administrator may require additional BMPs as a condition of the extension if they are necessary to meet the requirements of this ordinance.

CHECKLIST FOR SITE PLAN APPROVAL APPLICATION

Completed site plan approval application must be submitted to Village Clerk's Office, along with fee and other requirements outlined by checklist. **Applications must be received <u>21 days</u> prior to the Plan Commission meeting in order to be placed on the Plan Commission agenda.** The Plan Commission meets the 3rd Thursday of each month.

The application will be placed on agenda only after the completed form, fee and supporting documentation have been filed with the Village Clerk's Office. The application shall be reviewed by the Building Inspector who shall forward his review and findings to the Plan Commission. The Plan Commission will make recommendation to the Village Board who will make the final determination on the application.

Required Items:

__X__ 1. Completed site plan approval application.

__X__ 2. Scale drawing showing all the information required for a building/zoning permit and existing and proposed landscaping (see attached municipal code for requirements). ***Provide 15 copies.***

__X__ 3. Completed Site Review Application Guideline

__X__ 4. Fee of $100.00 (Resolution R10-24) **NOTE:** Actual costs billed for village consultants will be the responsibility of the applicant.

Rev. 1/2016

STRAND ASSOCIATES®
Excellence in Engineering
Since 1946

Strand Associates, Inc.®
910 West Wingra Drive
Madison, WI 53715
(P) 608.251.4843
www.strand.com

March 9, 2023

Ms. Lauren Freeman, Village Administrator
Village of New Glarus
319 Second Street
New Glarus, WI 53574

Re: New Glarus Brewery
Site Review Letter
Village of New Glarus, Wisconsin (Village)

Dear Lauren,

Strand Associates, Inc.® (Strand) received the following information on March 2, 2023, for the above-referenced project:

1. New Glarus Brewing Co., Warehouse Addition 2023 Drawings, dated February 21, 2023, consisting of 18 sheets.

2. Stormwater Management Memorandum dated February 17, 2023, by Fehr Graham consisting of 44 pages.

3. Site Plan Memorandum by Katherine May consisting of 1 page.

4. Certified Survey Map No. 5337, dated June 9, 2020, by Julius W. Smith consisting of 5 pages.

The following are Strand's review comments based on the information provided.

General

1. The total land disturbance for the project is approximately 68,850 square feet (sq ft) and an increase of approximately 7,990 sq ft of impervious area. Given that the land disturbance for the project exceeds 43,560 sq ft (1 acre), the applicant is required to submit applications for a Wisconsin Department of Natural Resources (WDNR) stormwater management permit and a Village stormwater and construction site erosion control permit. The Village permit applications were not included in the materials submitted.

2. The applicant has provided an update to the previously approved stormwater management plan that demonstrates that existing stormwater management facilities at the site provide the required 80 percent total suspended solids loading reduction and will also reduce peak runoff flows from the site for all storm events up to and including a 100-year design storm event. Based on review of this updated stormwater management plan, it appears to be acceptable.

3. The stormwater utility account for this parcel should have its Equivalent Runoff Unit (ERU) total increased by 2.7 ERUs because of the increase of impervious area.

4. Obtain all appropriate State and Village permits for the project.

Based on the information received and reviewed, we recommend approval contingent on the items noted previously.

Please call 608-251-4843 if you have any questions.

Sincerely,

STRAND ASSOCIATES, INC.®

Patrick J. Rank, P.E.

New Glarus Brewing Co- Warehouse 2023 Addition
Village of New Glarus, Site Plan Approval Memo
Contact:
Katherine May
KMay@NewGlarusBrewing.Com
406/599-6855

Dear Village Committee,

We are excited to share our design for a warehouse expansion at our Hilltop facility. This addition will be situated on the south end of our facility, by our existing Shipping and Receiving Entrance. It is roughly 28,000 SQF on what is currently an open gravel space.

The purpose of this warehouse is to house our empty beer Can supply. Currently when Cans are produced for us, they are stored off-site outside of the Village. This adds to cost and traffic flow as brewery employee and trucks are needed to shuttle cans from storage facilities to us when needed.

The demand for Canned beer in the market is growing significantly. Cans are a more sustainable material versus glass Bottles. They are less energy consuming to produce, lighter, and more compact, and therefore less fuel and traffic for shipping. They are also easier to recycle. We continue these sustainable steps in the design of the building by increasing the structural bearing load of the roof to hold future Solar Panels.

This addition will not increase traffic. Current warehouse staff will work in the space as they will be freed from their current need to make pick-ups from out of town warehouses. The warehouse is not open to the public and is accessed from the shipping only entrance. Finally, the 2 dock door additions are due to the taller height of stacked cans. Existing overhead dock doors are shorter than stacked Can industry standards. This increase in height is also why the new warehouse is a few feet higher than the existing warehouse. The new height remains within municipal zoning requirements. There will be no change to shipping and receiving hours. They will remain Monday through Friday 7am to 4pm. The only exterior lighting will be those required for emergency egress mounted over exit doors.

Since there is no increase in parking needs, our parking lot design will stay the same with 170 paved parking spaces and seasonal overflow parking in the East lots. This addition will be abutted to our existing facility with its rich landscape design of garden follies, limestone rock walls, indigenous plants and decorative paved stones. You can see some of our existing Hilltop landscape on drawing A120.

The warehouse design and materials will match what is utilized on the existing warehouses and production space. Walls will be metal insulated panels sitting on concrete curbs. The roof will be standing seam insulated metal panels. There will be vinyl picture windows and hollow metal doors. Along the perimeter of the building will be washed stone landscape edging.

Thank you for your time and continued support. I welcome any further conversations about our facility and our growth. Looking forward to visiting with you during your March 15th meeting. Our hope is this design is approved at that time with construction to start this spring.

Thank you,

Katherine May
AIA, NCARB
Wisconsin Architect License A-12133

NEW GLARUS BREWING CO
WAREHOUSE ADDITION 2023

VILLAGE SUBMITAL

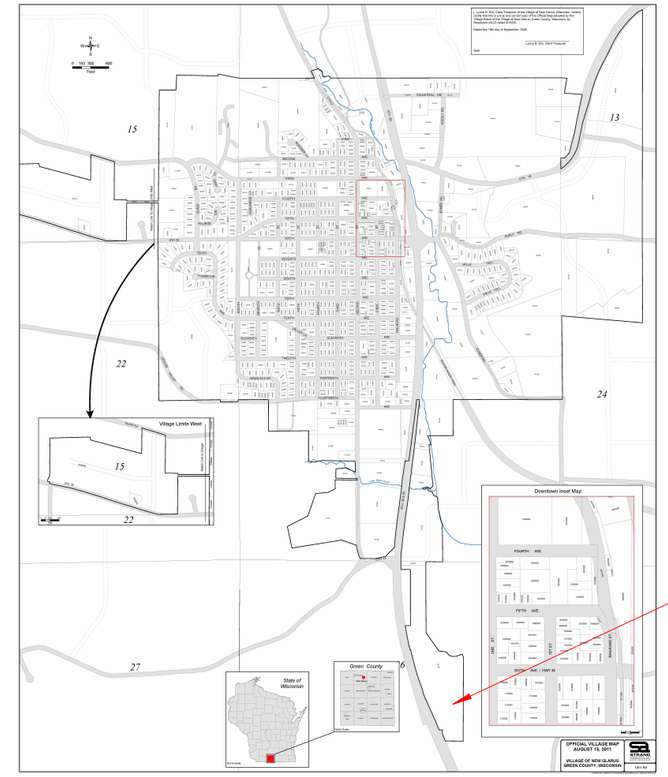
DRAWING LIST:

ARCHITECTURAL

CD01	COVER DRAWING
A101	FLOOR PLAN
A102	ROOF PLAN
A111	BUILDING ELEVATIONS
A112	BUILDING ELEVATIONS
A120	EXISTING LANDSCAPE CONDITIONS

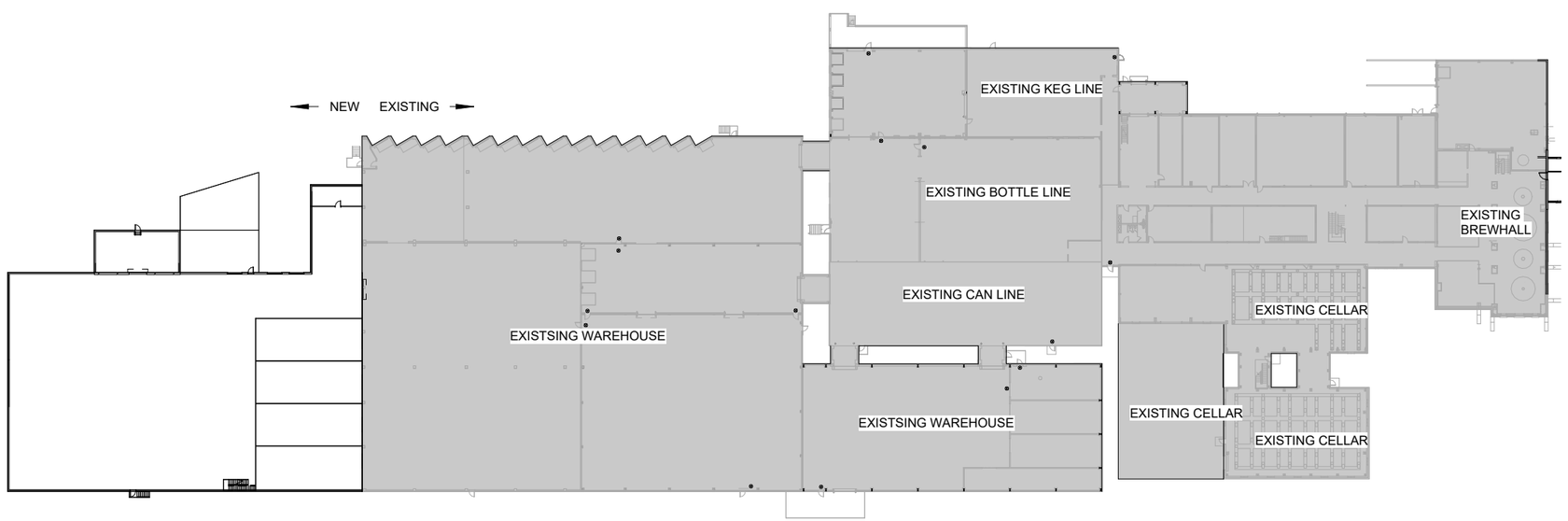
CIVIL

1	TITLE SHEET
2	STANDARD LEGEND
3	GENERAL NOTES
4	GENERAL NOTES
5	EXISTING CONDITIONS AND REMOVAL PLAN
6	SITE LAYOUT PLAN
7	GRADING PLAN
8	UTILITIES PLAN
9	EROSION CONTROL PLAN
10	DETAILS
11	DETAILS
12	DETAILS



PROJECT LOCATION

N



1 / CD01 KEY
1" = 80'-0"

N

New Glarus Brewing Co. DRINK INDIGENOUS

2400 Hwy 69
New Glarus, WI I 53574

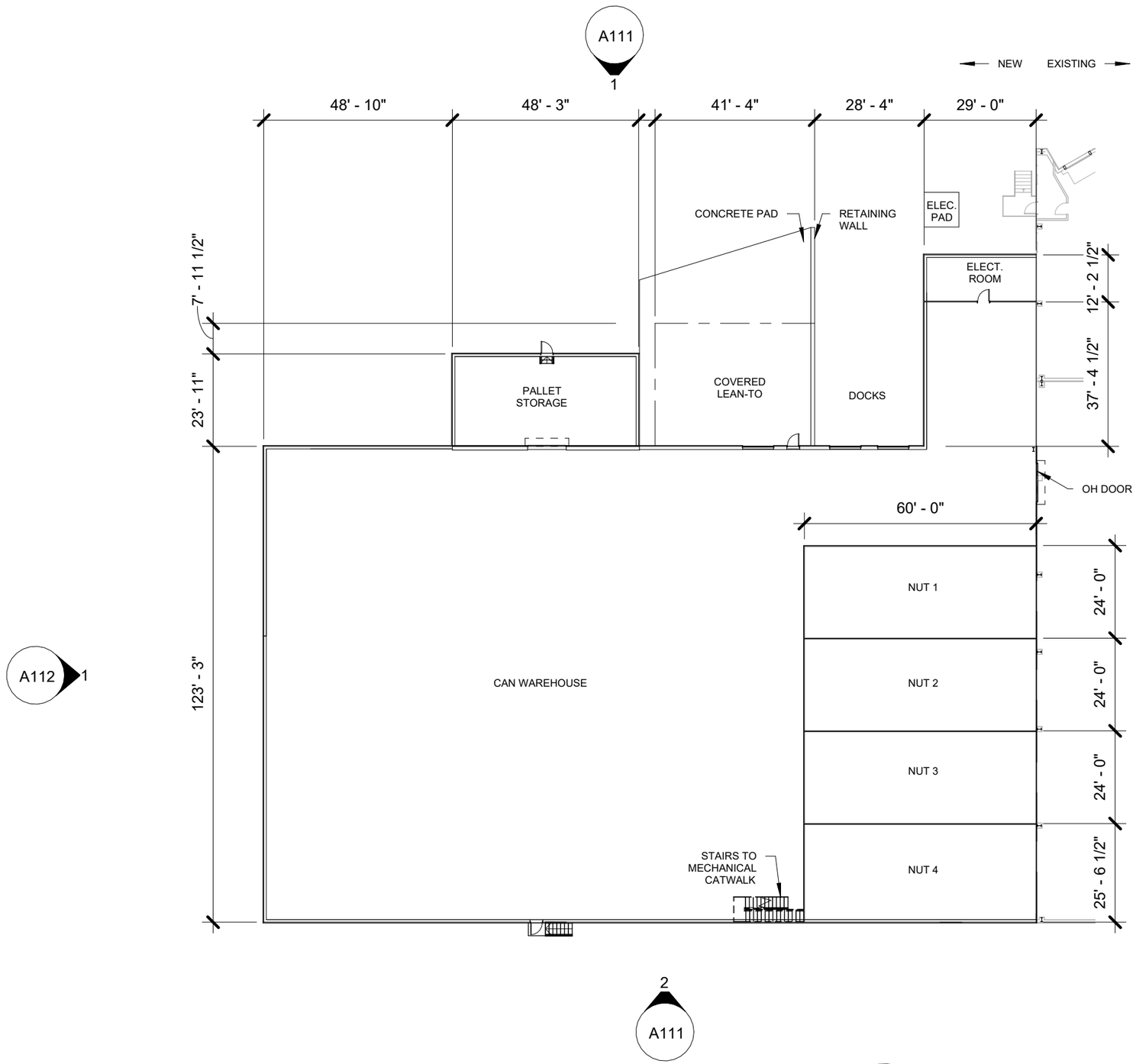
WAREHOUSE ADDITION 2023

NOT FOR CONSTRUCTION

02/21/23 VILLAGE SUBMITAL

COVER DRAWING

CD01



1 A101 FLOOR PLAN

1" = 30'-0"

N

New Glarus Brewing Co. DRINK INDIGENOUS

2400 Hwy 69
New Glarus, WI I 53574

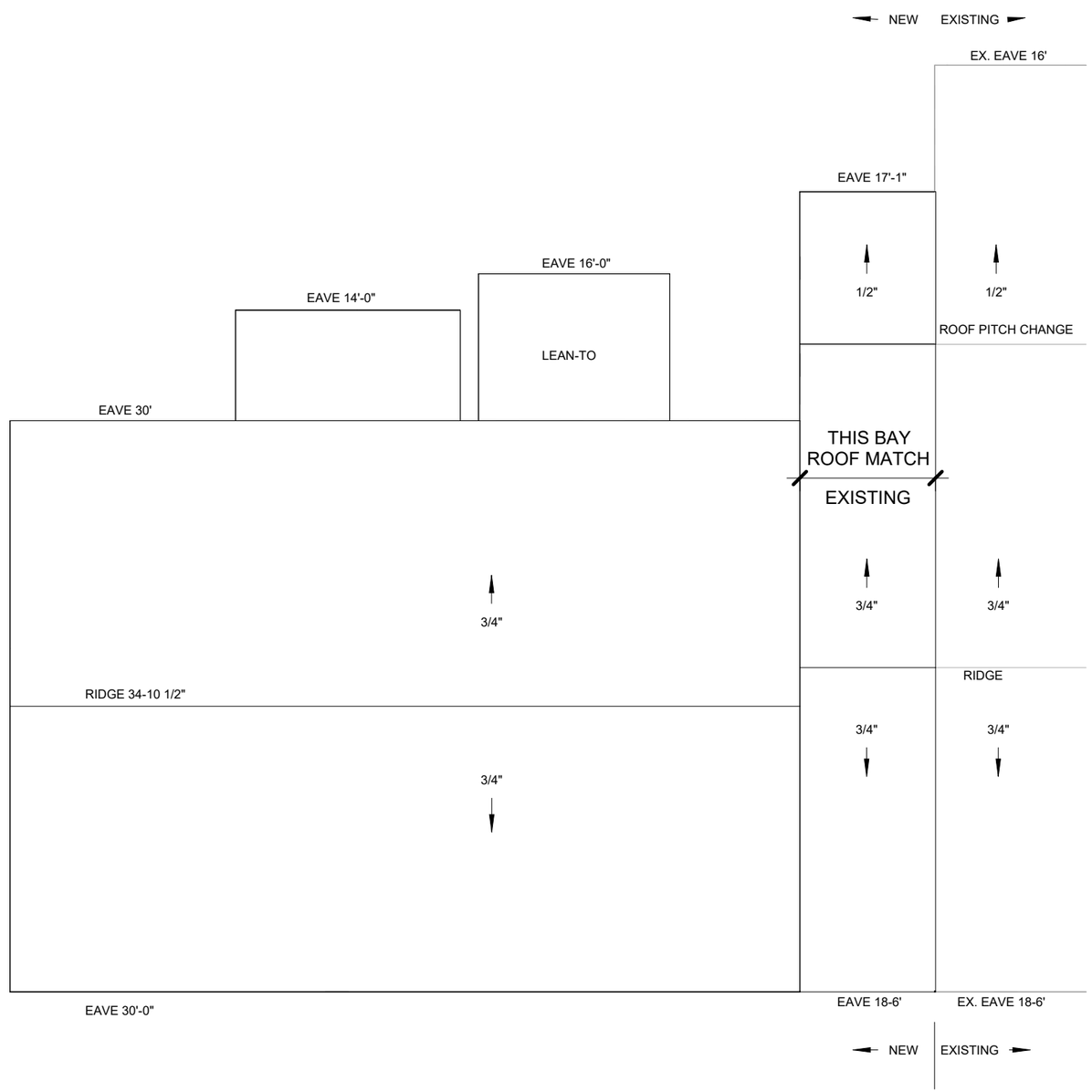
WAREHOUSE
ADDITION 2023

NOT FOR CONSTRUCTION

02/21/23 VILLAGE SUBMITAL

FLOOR PLAN

A101



1
A102

ROOF PLAN

1" = 30'-0"

N

New Glarus Brewing Co.
DRINK INDIGENOUS

2400 Hwy 69
New Glarus, WI I 53574

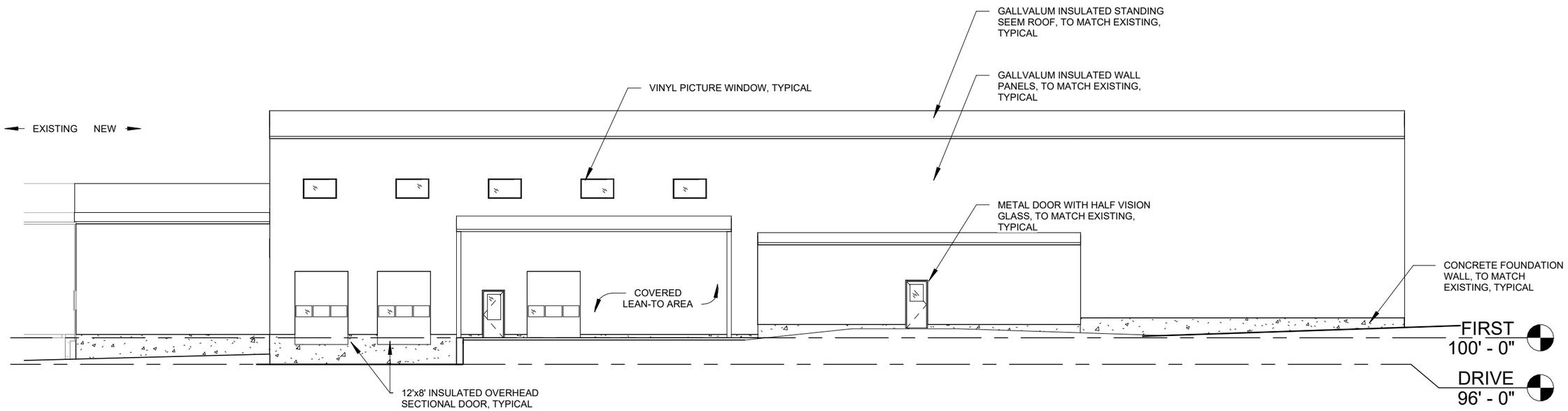
WAREHOUSE
ADDITION 2023

NOT FOR
CONSTRUCTION

02/21/23 VILLAGE SUBMITAL

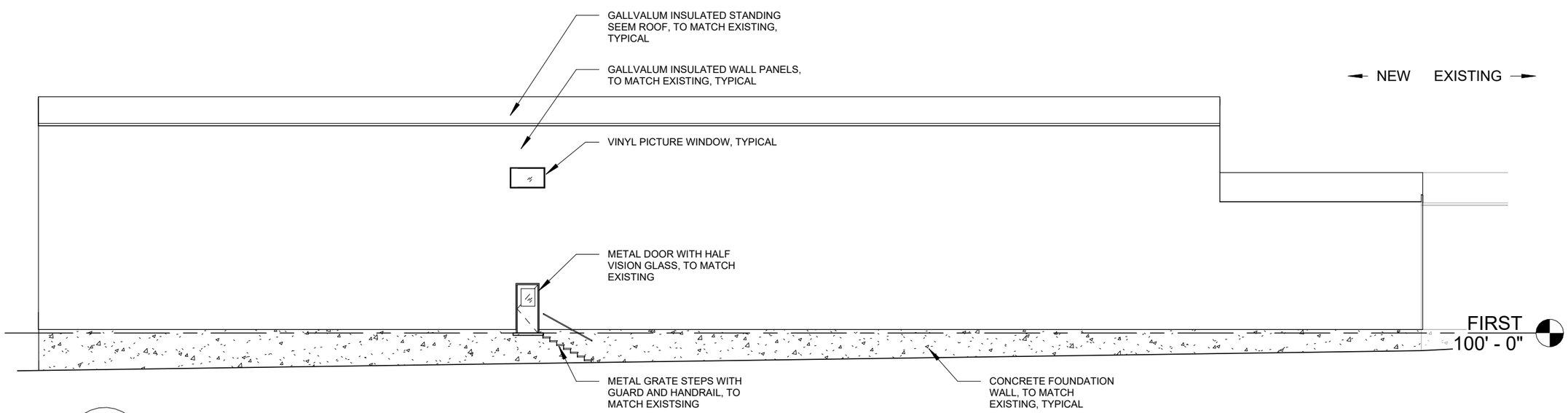
ROOF PLAN

A102



1 A111 WEST ELEVATION

1/16" = 1'-0"



2 A111 EAST ELEVATION

1/16" = 1'-0"

New Glarus Brewing Co.
DRINK INDIGENOUS

2400 Hwy 69
New Glarus, WI I 53574

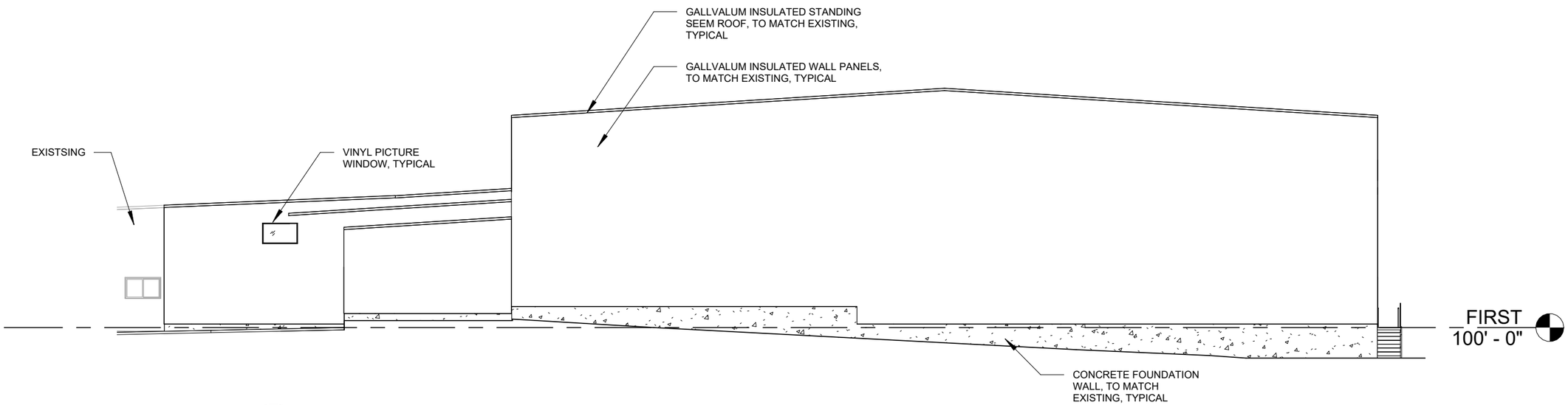
WAREHOUSE ADDITION 2023

NOT FOR CONSTRUCTION

02/21/23 VILLAGE SUBMITAL

BUILDING ELEVATIONS

A111



1
A112

SOUTH ELEVATION

1/16" = 1'-0"

New Glarus Brewing Co.
DRINK INDIGENOUS

2400 Hwy 69
New Glarus, WI I 53574

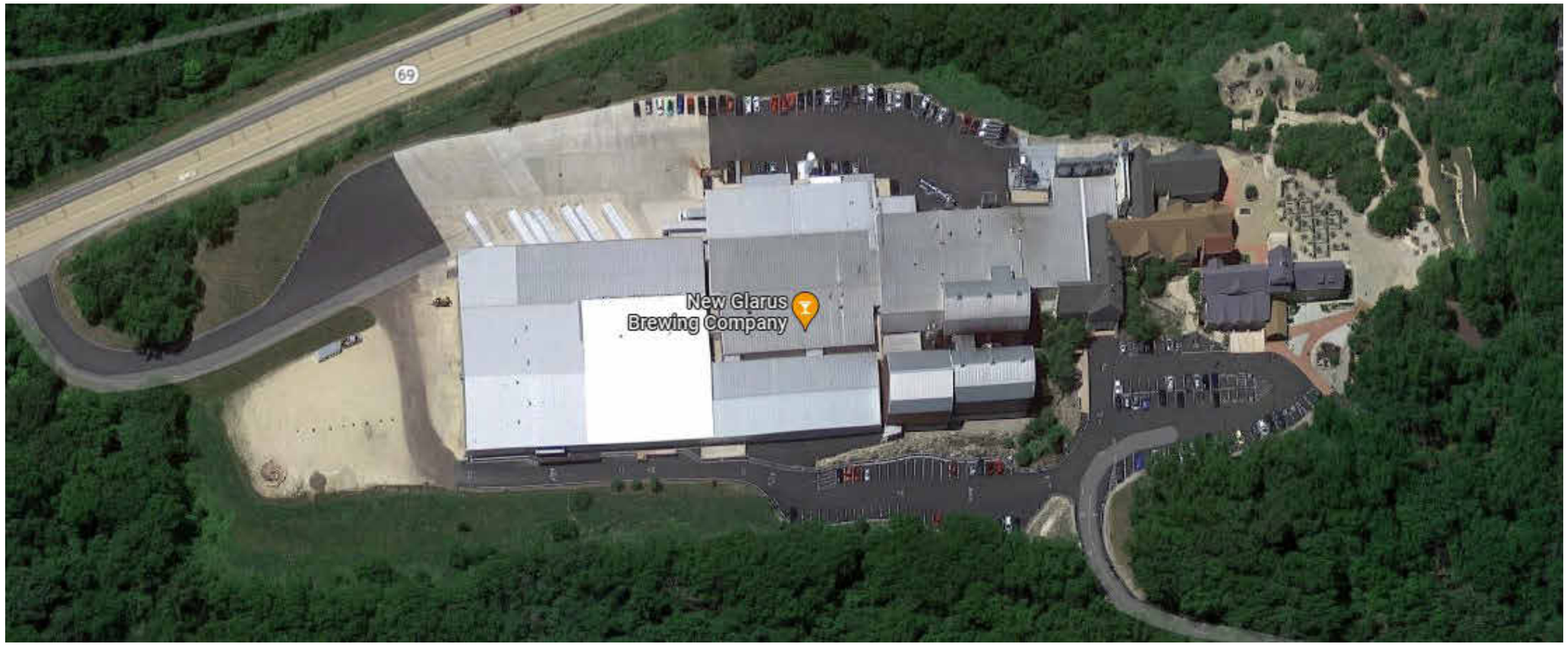
WAREHOUSE
ADDITION 2023

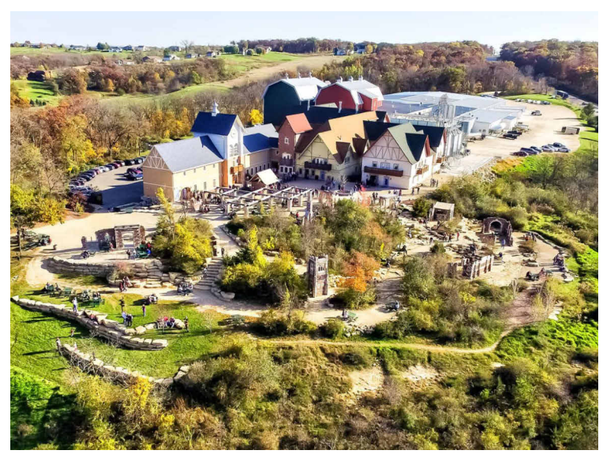
NOT FOR CONSTRUCTION

02/21/23 VILLAGE SUBMITAL

BUILDING
ELEVATION

A112





New Glarus Brewing Co.
DRINK INDIGENOUS

2400 Hwy 69
New Glarus, WI I 53574

WAREHOUSE
ADDITION 2023

NOT FOR
CONSTRUCTION

02/21/23 VILLAGE SUBMITAL

EXISTING
CONDITIONS

A120

SHEET NUMBER:
1

NEW GLARUS BREWING CO.
WAREHOUSE ADDITION

FOR

NEW GLARUS BREWING CO.
NEW GLARUS, WI

PROPOSED SITE PLANS

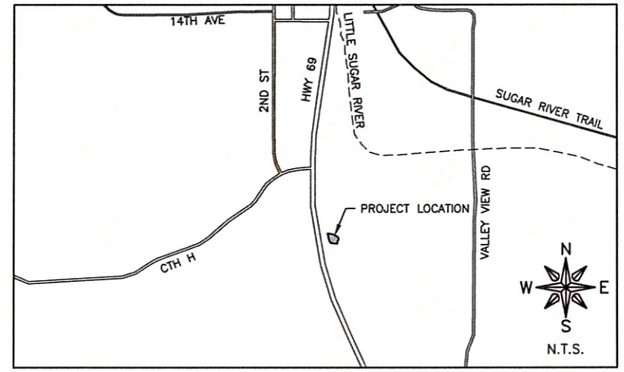
GREEN COUNTY
FEBRUARY 2023

INDEX OF SHEETS

UTILITIES

UTILITY TYPE	COMMON NAME
WATER & SEWER	NEW GLARUS UTILITIES
ELECTRIC	ALLIANT ENERGY
TELEPHONE	TDS TELECOM
GAS	WE ENERGIES
CABLE	CHARTER

(CONTRACTOR TO BE RESPONSIBLE FOR ANY ADJUSTMENTS TO BE MADE.)



LOCATION MAP

CONTOURS AND ELEVATIONS DEPICTED HEREON ARE BASED UPON THE NAVD88 DATUM.
HORIZONTAL DATUM IS BASED ON THE WISCONSIN COUNTY COORDINATE SYSTEM – GREEN COUNTY.

WISCONSIN
JESSE W. DUFF
43495-6
MONROE, WI
PROFESSIONAL ENGINEER

2/17/2023
SIGNATURE DATE

FEHR GRAHAM
ENGINEERING & ENVIRONMENTAL

ILLINOIS IOWA WISCONSIN

811 DIGGERS HOTLINE
Know what's below.
Call before you dig.
OR CALL (800) 242-8511

REVIEW SET

ORIGINAL SET FOR PROJECT: 22-821	DATE CREATED: 02/17/23

REVISIONS

REV. NO.	DESCRIPTION	DATE

G:\C3D\22\22-821\Plans\22-821 PLANS.dwg, TITLE
PLOT DATE: 2/17/23

ABBREVIATIONS

<	ANGLE
ABC	AGGREGATE BASE COURSE
AC	ACRE(S)
ACI	AMERICAN CONCRETE INSTITUTE
AGR	AGGREGATE
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
ALT	ALTERNATE
ARCH	ARCHITECT
ASPH	ASPHALT
ASTM	AMERICAN SOCIETY OF TESTING AND MATERIALS
B	BALL VALVE
BFP	BACKFLOW PREVENTER
BIT	BITUMINOUS
BLDG	BUILDING
BLK	BLOCKING
BM	BENCHMARK
BOT	BOTTOM
BSMT	BASEMENT
BV	BUTTERFLY VALVE
B-B	BACK-TO-BACK OF CURB DIMENSION
CL or ℄	CENTERLINE
C TO C	CENTER TO CENTER
C & G	CURB AND GUTTER
CF	CUBIC FEET
CHD	CHORD LENGTH
CI	CAST IRON PIPE
CHK	CHECK VALVE
CLR	CLEAR
CMP	CORRUGATED METAL PIPE
CMU	CONCRETE MASONRY UNIT
CTY	COUNTY
CONC	CONCRETE
CONT	CONTINUOUS
C-B	CENTERLINE TO BACK OF CURB DIMENSION
COORD	COORDINATE
CU	COPPER PIPING
CTRS	CENTERS
CY	CUBIC YARDS
CS	CORPORATION STOP
D	DEGREE OF CURVE
DEP	DEPRESSED
DET	DETAIL
DIAG	DIAGONAL
DIM	DIMENSION
DI	DUCTILE IRON PIPE
DN	DOWN
DNSTR	DOWNSTREAM
DP	DRAINAGE PIPE/STORM PIPE
DWG	DRAWING
E	EAST
EJ	EXPANSION JOINT
EL, ELEV	ELEVATION
EP	EDGE OF PAVEMENT
EQUIP	EQUIPMENT
EQUIV	EQUIVALENT
EW	EACH WAY
EXP	EXPANSION
EX, EXIST	EXISTING
EXT	EXTERIOR
E =	EXTERNAL DISTANCE
FD	FLOOR DRAIN
FDN	FOUNDATION
FE	FIELD ENTRANCE
FF	FINISH FLOOR
FIL	FILLET
FIN	FINISH
FL	FLOW LINE
FLR	FLOOR
FM	FORCE MAIN
FND	FOUND
FRMG	FRAMING
FTG	FOOTING
F-F	FACE TO FACE
GA	GAUGE
GI	GALVANIZED IRON PIPE
GRD	GRADE
GRS	GRATING SUPPORT
GRT	GROUT
GV	GAS VALVE
GYP	GYPSUM
HSE	HOUSE
HC	HORIZONTAL CURVE
HMA	HOT MIX ASPHALT
HNGR	HANGER
HORIZ	HORIZONTAL
H.P.	HIGH POINT
HW	HOT WATER
HWH	HOT WATER HEATER
Δ =	CENTRAL ANGLE
I	MOMENT OF INERTIA
ID	INSIDE DIAMETER
INT	INTERIOR
INV	INVERT ELEVATION; BASED ON BENCH MARK DATUM
IP	IRON PIPE
JST	JOIST
L	LENGTH OF CURVE
LAT	LATERAL
LAV	LAVATORY
LF	LINEAL FEET
L.P.	LOW POINT
LT	LEFT OF SURVEY BASE LINE
MAX	MAXIMUM
ME	MATCH EXISTING
MH	MANHOLE
MIN	MINIMUM
MJ	MECHANICAL JOINT
MTL	METAL
N	NORTH
No. OR #	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OO	OUTSIDE TO OUTSIDE
OPNG	OPENING
OPP	OPPOSITE
PC	POINT OF CURVATURE
PCC	PORTLAND CEMENT CONCRETE
PCF	POUNDS PER CUBIC FOOT
PDP	PERFORATED DRAIN PIPE
PE	POLYETHYLENE PIPE
PI	POINT OF INTERSECTION
PL	PLATE
PLG	PLUG VALVE
PLP	POLYPROPYLENE PIPE
PLYWD	PLYWOOD
PM	PRINCIPAL MERIDIAN
PR	PRESSURE REGULATORS
PRC	POINT OF REVERSE CURVATURE
PRESS	PRESSURE
PR, PROP	PROPOSED
PRV	PRESSURE REDUCING VALVE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSL	PIPE SLEEVE
PT	POINT OF TANGENCY
PLG	PLUG VALVE
PVC	POLYVINYL CHLORIDE (PLASTIC) PIPE
R	RADIUS
RDCR	REDUCER
RCCP	REINFORCED CONCRETE CYLINDER PIPE
RCP	REINFORCED CONCRETE PIPE
RD	ROOF DRAIN
REINF	REINFORCING
REQD	REQUIRED
ROW	RIGHT OF WAY
RFTR	RAFTER
RND	ROUND
RR	RAILROAD
RRSP	RAILROAD SPIKE
RT	RIGHT
R&R	REMOVE AND REPLACE
S	SOUTH
SB	STREAM BED
SCHED	SCHEDULE
SEC	SECTION
SF	SQUARE FEET
SHR	SHOWER
SHT	SHEET
SHTG	SHEATHING
SP	SANITARY PIPE
SPA	SPACING OR SPACES
SPEC	SPECIFICATION
SQ	SQUARE
SS	SANITARY SERVICE
STA	STATION
STD	STANDARD
STL	STEEL
STRUCT	STRUCTURAL
SW	SIDEWALK
SY	SQUARE YARDS
SYM	SYMMETRICAL
TAN	TANGENT LENGTH
TBC	TOP BACK OF CURB
TBM	TEMPORARY BENCH MARK; BASED ON BENCHMARK DATUM
TD	TILE DRAIN
THK	THICK
TR	TREAD
TY	TYPE
TYP	TYPICAL
U.O.N.	UNLESS OTHERWISE NOTED
UP	UTILITY POLE
UPSTR	UPSTREAM
UR	URINAL
USGS	US GEOLOGICAL SURVEY
VC	VERTICAL CURVE
VCP	VITRIFIED CLAY PIPE
VERT	VERTICAL
VOL	VOLUME
VPC	VERTICAL POINT OF CURVATURE
VPI	VERTICAL POINT OF INTERSECTION
VPRC	VERTICAL POINT OF REVERSE CURVATURE
VPT	VERTICAL POINT OF TANGENCY
W	WEST
WC	WATER CLOSET
WF	WIDE FLANGE
WM	WATER MAIN
WMQ	WATER MAIN QUALITY
WV	WATER VALVE
WGT	WEIGHT
WP	WEATHER PROOF
WS	WATER SERVICE
WWF	WELDED WIRE FABRIC
W/	WITH
W/O	WITHOUT
XP	EXPLOSION PROOF

HATCH PATTERNS

EARTH – FILL	BRICK
EARTH – UNDISTURBED	STEEL
ROCK (GEOLOGICAL)	INSULATION (LOOSE/ BATT)
STONE OR RIP RAP	INSULATION (RIGID)
GRAVEL	WOOD (ROUGH)
CONCRETE	WOOD (BLOCKING)
CONCRETE BLOCK	WOOD (FINISH)
CMU	DETECTABLE WARNING
ASPHALT PAVEMENT	

SYMBOLS

CIVIL

EXISTING		PROPOSED
EXISTING R.O.W.	RIGHT-OF-WAY LINE	PROPOSED R.O.W.
	PROPERTY LINE	
	CENTERLINE	
	SETBACK LINE	
	EASEMENT LINE	
	SECTION LINE	
S 4 S 9	SECTION CORNER	
N 1000.00 E 1000.00	COORDINATE POINT ON GRID SYSTEM	
FND	FOUND OR SET PROPERTY PIN	SET
X	RIGHT-OF-WAY MARKER	X
	BENCHMARK	
600	CONTOUR LINE	600
000.00 FG	SPOT ELEVATION (AT •)	000.00 FG
X	FENCE LINE	X
	SILT FENCE LINE	
	CURB AND GUTTER	
	TIP OUT CURB AND GUTTER	
	SAWCUT, LIMITS OF PAVEMENT REMOVAL & REPLACEMENT	
X"	DECIDUOUS TREE W/ SIZE	X"
X"	CONIFEROUS TREE W/ SIZE	X"
X"	TREE STUMP	
	HEDGEROW	
	BUSH OR SHRUB	
	TREE LINE	
CL	CONSTRUCTION LIMIT LINE	CL
	SIGN (MULTIPLE POST, SINGLE POST, STREET SIGN)	
	SIGN (PYLON)	
	GUARD RAIL	
	RAILROAD TRACKS	
	BUILDING	
	MAILBOX	
	FLAGPOLE	
	BOLLARD	
AC	AIR CONDITIONER	AC

MISC

EXISTING		PROPOSED
S.B. #XX	SOIL BORING LOCATION AND NUMBER	S.B. #XX
MW #XX	MONITORING WELL	MW #XX
	REVISION NUMBER	1
	OUTLINE OF DETAILED AREA	
	SECTION NUMBER / SHEET WHERE SHOWN	A / S-1

SANITARY SEWER

EXISTING		PROPOSED
SAN >	SANITARY SEWER	SAN >
SSV>	SANITARY SEWER SERVICE	SSV>
<FM	SANITARY SEWER FORCE MAIN	<FM
	SANITARY CLEANOUT	CO
S	SANITARY MANHOLE	
	WYE FITTING	

WATER

EXISTING		PROPOSED
WSV	WATER SERVICE	WSV
W	WATER PIPE	W
	FIRE HYDRANT	
	YARD HYDRANT	
	WATER VALVE WITH BOX	
	CURB STOP W/CURB BOX	
	REDUCER	
W	WATER VALVE VAULT	W
	11.25° BEND	
	22.50° BEND	
	45° BEND	
	90° BEND	
	TEE	
	CAP	
M	WATER METER	M
	SPRINKLER HEAD	
	TRACER WIRE BOX	

STORM SEWER

EXISTING		PROPOSED
ST>	STORM SEWER	ST>
DT>	DRAIN TILE	DT>
	DITCH LINE (PAVED)	
	DITCH LINE (UNPAVED)	
D	STORM MANHOLE	
	CATCH BASIN	
	STORM SEWER INLET	
	STORM SEWER INLET – BEHIND CURB	
	DOWNSPOUT	
X" TYPE	CULVERT AND SIZE	X" TYPE
	RCCP OR RCP EQRS (RCAP) END SECTION	
	METAL OR HDPE END SECTION	
	FLOW DIRECTION	

EROSION CONTROL

EXISTING		PROPOSED
	EROSION CONTROL BLANKET	
	TEMPORARY AND PERMANENT SEEDING AREA	
	UNDISTURBED AREA	
	STABILIZED CONSTRUCTION ENTRANCE	
	SILT FENCE	
	INLET PROTECTION	
	TEMPORARY SEDIMENT TRAP	
	CULVERT INLET PROTECTION	
	ROCK OUTLET PROTECTION	
	ROCK CHECK DAM – COURSE AGGREGATE	
	ROCK CHECK DAM – RIP RAP	
	DITCH CHECK	

UTILITY

EXISTING		PROPOSED
FO	FIBER OPTIC LINE	FO
TV	UNDERGROUND TV CABLE	TV
C	CABLE TV RISER PEDESTAL	C
OU	OVERHEAD UTILITY	OU
UE	UNDERGROUND ELECTRIC	UE
E	ELECTRIC RISER PEDESTAL	E
E	ELECTRIC MANHOLE	E
T	UNDERGROUND TELEPHONE	T
T	TELEPHONE RISER PEDESTAL	T
T	TELEPHONE MANHOLE	T
	UTILITY POLE	
	UTILITY POLE W/ METER	
	UTILITY POLE W/ TRANSFORMER	
	UTILITY POLE W/ LIGHT	
	UTILITY POLE WITH GUY WIRE AND ANCHOR	
	LIGHT (MAST MOUNTED)	
	LIGHT POLE (SINGLE FIXTURE)	
	YARD LIGHT	
G	GAS MAIN	G
M	GAS METER	M
	GAS VALVE	
G	GAS STRUCTURE	G
ET	TRANSFORMER	
GEN	GENERATOR	

TRAFFIC RELATED

EXISTING		PROPOSED
	CONTROLLER	
	MAST ARM ASSEMBLY AND POLE	
	SIGNAL HEAD AND POST	
	SIGNAL HEAD	
	PEDESTRIAN HEAD	
	PEDESTRIAN PUSH-BUTTON	
	HAND HOLE	
	DOUBLE HAND HOLE	
	HAND HOLE OR JUNCTION BOX	
	HEAVY-DUTY HAND HOLE	
(5' - 2")	EXISTING CONDUIT (LENGTH AND SIZE) PROP GALVANIZED STEEL OR PVC CONDUIT UPPER NUMERAL INDICATES LENGTH "T" INDICATES CONDUIT IN TRENCH "P" INDICATED CONDUIT PUSHED LOWER NUMERAL INDICATES SIZE AND TYPE	5' - T 2" GS-PVC
	LUMINAIRE	
	ARROW – THROUGH, TURN LEFT	
	ARROW – THROUGH	
	ARROW – TURN LEFT	
	ARROW – TURN RIGHT	
ONLY	ONE DIRECTION TURN ONLY	ONLY
	HANDICAPPED PARKING STALL	
	TRAFFIC DETECTOR LOOP	
	TRAFFIC CONTROL BOX	

FEHR GRAHAM
ENGINEERING & ENVIRONMENTAL

ILLINOIS
IOWA
WISCONSIN

OWNER/DEVELOPER:
NEW GLARUS BREWING CO.
2400 WISCONSIN 69
NEW GLARUS, WI 53574

PROJECT AND LOCATION:
NEW GLARUS BREWING CO.
WAREHOUSE ADDITION
NEW GLARUS, WI

DRAWN BY: K.K.
APPROVED BY: J.D.
DATE: 02/17/23
SCALE: AS NOTED

REVISIONS

REV. NO.	DESCRIPTION	DATE

DRAWING:
STANDARD LEGEND

SET TYPE: REVIEW SET
G:\C3D\22\22-821\Plans\22-821 PLANS.dwg, LEGEND

JOB NUMBER:
22-821

SHEET NUMBER:
2 of 12

PLOT DATE: 2/17/23

GENERAL NOTES

1. THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE MUNICIPAL CODE, VILLAGE OF NEW GLARUS, WISCONSIN, CURRENT EDITION, THE WISCONSIN DEPARTMENT OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION, CURRENT EDITION, SPECIAL PROVISIONS AND THE "STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN", CURRENT EDITION. SIGN CONSTRUCTION AND PAVEMENT MARKINGS SHALL CONFORM TO THE REQUIREMENTS OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", CURRENT EDITION.

2. IN THESE CONTRACT DOCUMENTS MENTION IS MADE OF THE "ENGINEER", WHICH SHALL MEAN FEHR GRAHAM OR THEIR DULY AUTHORIZED AGENT. IN THESE CONTRACT DOCUMENTS MENTION IS MADE OF THE "OWNER", WHICH SHALL MEAN NEW GLARUS BREWING COMPANY, OR THEIR DULY AWARDED AGENT.

3. AS PART OF THE BIDDING PROCEDURE, THE CONTRACTOR SHALL VERIFY THAT THE QUANTITIES FOR PAY ITEMS, AS PRESENTED IN THESE PLAN DOCUMENTS, ARE SUBSTANTIALLY CORRECT. IF DISCREPANCIES ARE DETECTED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF THE DISCREPANCY PRIOR TO THE BID DATE.

4. QUANTITIES SHOWN ARE ESTIMATES FOR INFORMATION ONLY. PAYMENT WILL BE BASED ON ACTUAL QUANTITIES MEASURED IN THE FIELD OR ON PAYMENT LIMIT DETAILS.

5. THE CONTRACTOR SHALL BE PAID FOR MATERIALS AND EQUIPMENT SUCCESSFULLY INSTALLED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS AS MEASURED OR VERIFIED IN PLACE BY THE ENGINEER OR HIS AGENT.

6. IN CASE OF CONFLICT BETWEEN THE ABOVE MENTIONED SPECIFICATIONS, THE ENGINEER SHALL DETERMINE WHICH OF THE SPECIFICATIONS SHALL GOVERN. THE ENGINEER'S DECISION SHALL BE FINAL AND NO ADDITIONAL COMPENSATION SHALL BE AWARDED UNLESS APPROVED BY THE ENGINEER.

7. THE PROPOSED IMPROVEMENTS MUST BE CONSTRUCTED IN ACCORDANCE WITH THE ENGINEERING PLANS AS APPROVED BY THE OWNER. IMPROVEMENT REPRESENTATIONS AS SHOWN ON THESE PLANS ARE AS ACCURATE AS POSSIBLE FROM THE INFORMATION AVAILABLE. HOWEVER, SOME FIELD REVISIONS MAY BE REQUIRED TO ACCOMMODATE UNFORESEEN CIRCUMSTANCES – THE ENGINEER SHALL BE ADVISED OF ANY NECESSARY REVISIONS WITH SUFFICIENT LEAD TIME ALLOWED TO PROPERLY CONSIDER AND ACT UPON SAID REQUESTS. PROPER CONSTRUCTION TECHNIQUES MUST BE FOLLOWED IN CONSTRUCTING THOSE IMPROVEMENTS AS DETAILED IN THIS ENGINEERING PLAN.

8. THE ENGINEER SHALL HAVE THE AUTHORITY TO INSPECT, APPROVE OR REJECT THE WORKMANSHIP AND/OR MATERIALS WHICH GO TO MAKE UP IMPROVEMENTS AS DETAILED IN THESE PLANS AND SPECIFICATIONS.

9. GENERAL SAFETY PROVISION: TO PROVIDE DRIVERS WITH SAFE TRAVEL CONDITIONS DURING THE CONSTRUCTION PROJECT, AND TO PROVIDE SAFE WORKING CONDITIONS FOR ALL EMPLOYEES, THE RULES, REGULATIONS, AND CONDITIONS STATED BELOW WILL PREVAIL FOR THE DURATION OF THIS CONTRACT. ANY EMPLOYEE OF THE CONTRACTOR OR HIS SUBCONTRACTORS WHO REFUSES TO COMPLY WITH THESE GENERAL SAFETY PROVISIONS SHALL BE REMOVED FROM THE JOB SITE IN ACCORDANCE WITH STATE AND LOCAL REQUIREMENTS. THE CONTRACTOR AND ANY SUBCONTRACTORS RETAINED BY HIM SHALL COMPLY WITH THE STATE AND FEDERAL REQUIREMENTS OF THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970 (OSHA), JULY 1, 1987 AS IT RELATES TO CONTRACTOR'S OPERATIONS.

10. THE CONTRACTOR SHALL COMPLY WITH ALL STATE REGULATIONS REGARDING AIR, WATER, AND NOISE POLLUTION. THE CONTRACTOR WILL NOT BE ALLOWED TO BUILD FIRES ON THE SITE.

11. THE SCALE SHOWN ON THE DRAWINGS APPLIES ONLY TO THE FULL SIZE PLANS NOT THE REDUCED SIZE PLANS.

12. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN DRAINAGE FLOWS AT ALL TIMES DURING THE PERFORMANCE OF THE WORK. METHODS USED BY THE CONTRACTOR SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER. COST OF MAINTAINING DRAINAGE FLOWS SHALL BE INCIDENTAL TO THE CONTRACT.

13. WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED OR DISTURBED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKERS, MONUMENTS AND RIGHT–OF–WAY PINS UNTIL THE OWNER, AND AUTHORIZED SURVEYOR, OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING AN AUTHORIZED SURVEYOR RE–ESTABLISH ANY SECTION OR SUBSECTION MONUMENTS DESTROYED BY HIS OPERATIONS. REPLACEMENT OF MONUMENTS WILL BE DETERMINED BY THE ENGINEER.

14. THE CONTRACTOR SHALL REMOVE, STORE, AND RELOCATE TO THE SATISFACTION OF THE ENGINEER ALL EXISTING SIGNAGE IN ACCORDANCE WITH STATE AND LOCAL REQUIREMENTS, AND CONSIDER THIS AS INCIDENTAL TO THE CONTRACT.

15. OUTSIDE THE EXISTING RIGHT–OF–WAY, THE CONTRACTOR SHALL USE CARE IN GRADING OR EXCAVATION NEAR ANY AND ALL EXISTING SIGNS OUTSIDE THE RIGHT–OF–WAY. ANY SIGNS REMOVED FOR CONSTRUCTION PURPOSES SHALL BE CAREFULLY REMOVED AND RE–ERECTED BY THE CONTRACTOR AT A LOCATION NEAREST TO THE ORIGINAL LOCATION, OR AT A LOCATION DETERMINED BY THE ENGINEER IN THE FIELD. REMOVAL AND RE–ERECTED SIGNS AND ANY DAMAGE DONE TO EXISTING SIGNS BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED OR REPLACED AT NO ADDITIONAL EXPENSE TO THE OWNER.

16. ALL ITEMS SHALL INCLUDE ALL THE NECESSARY MATERIALS AND LABOR TO COMPLETE THE ITEM IN PLACE. MATERIALS AND LABOR NOT SPECIFICALLY IDENTIFIED SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.

17. AT THE END OF EACH DAY, THE CONTRACTOR SHALL SECURE THE CONSTRUCTION WORK ZONE FROM POTENTIAL INTRUDERS.

18. THE CONTRACTOR SHALL FIELD VERIFY THE ELEVATIONS OF THE BENCHMARKS PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL ALSO FIELD VERIFY LOCATION, ELEVATION AND SIZE OF EXISTING UTILITIES, AND VERIFY PAVEMENT ELEVATIONS WHERE MATCHING INTO EXISTING WORK. THE CONTRACTOR SHALL FIELD VERIFY HORIZONTAL CONTROL BY REFERENCING SHOWN COORDINATES TO KNOWN PROPERTY LINES. NOTIFY ENGINEER OF DISCREPANCIES IN EITHER VERTICAL OR HORIZONTAL CONTROL PRIOR TO PROCEEDING WITH WORK.

19. THE CONTRACTOR SHALL CONTACT THE ENGINEER OF ANY ERRORS OR DISCREPANCIES WHICH MAY BE SUSPECTED IN LINES AND GRADES, AND SHALL NOT PROCEED WITH THE WORK UNTIL ALL LINES AND GRADES WHICH ARE BELIEVED TO BE IN ERROR HAVE BEEN VERIFIED OR CORRECTED BY THE ENGINEER OR HIS REPRESENTATIVE.

20. THE ENGINEER AND OWNER ARE NOT RESPONSIBLE FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCE OR PROCEDURES, TIME OF PERFORMANCE, PROGRAMS OR ANY SAFETY PRECAUTIONS USED BY THE CONTRACTOR. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR EXECUTION OF THEIR WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND SPECIFICATIONS.

21. ALL ITEMS TO BE REMOVED AND NOT DEFINED AS A PAY ITEM SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.

22. ALL EXCESS EARTH EXCAVATION, EXCESS MATERIALS, OR OTHER REMOVED ITEMS SHALL BE HAULED OFF–SITE AT THE CONTRACTOR'S EXPENSE, UNLESS OTHERWISE APPROVED BY THE OWNER.

23. ROADWAY AND DRAINAGE EXCAVATION WORK SHALL BE IN ACCORDANCE WITH SECTION 205 OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION, CURRENT EDITION. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL OBSTRUCTIONS, TREES, DEBRIS AND BRUSH AS DESIGNATED BY THE OWNER AND AS INDICATED ON THE PLANS. ALL MATERIALS SHALL BE DISPOSED OF AT THE CONTRACTOR'S EXPENSE. DURING CONSTRUCTION, CARE SHALL BE TAKEN TO MINIMIZE DAMAGE TO THE EXISTING TREES AND LANDSCAPING. ONLY THOSE ITEMS DESIGNATED BY THE OWNER SHALL BE REMOVED.

24. ALL ROADWAY REMOVAL ITEMS SHALL CONFORM TO SECTION 204 OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION, CURRENT EDITION. ALL JOINTS BETWEEN THE PORTION REMOVED AND THAT LEFT IN PLACE SHALL BE SAWED TO SUCH A DEPTH THAT A CLEAN, NEAT EDGE WILL RESULT WITH NO SPALLING TO THE REMAINING PORTION. THE COST OF SAWING SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT. ADDITIONAL SAWING OR RE–SAWING MAY BE REQUIRED AS DIRECTED BY THE ENGINEER WITH NO ADDITIONAL COMPENSATION BEING ALLOWED. THE COST OF SAWCUTTING THE EXISTING PAVEMENT SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

GENERAL NOTES

25. WHEN ARTIFICIAL LIGHTING IS UTILIZED DURING NIGHT OPERATIONS, THE CONTRACTOR SHALL EXERCISE UTMOST PRECAUTIONS IN PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC, AS WELL AS ADJOINING RESIDENTIAL AREAS.

26. THE CONTRACTOR IS REQUIRED TO STAY WITHIN THE NOTED PROPERTY BOUNDARIES RIGHT–OF–WAY AND EASEMENTS AS SHOWN IN THE PLANS. ANY ADDITIONAL EASEMENTS SHALL BE SECURED BY THE CONTRACTOR AT NO EXTRA COST.

27. ANY AREAS DAMAGED OR DISTURBED DURING THE PROJECT AS A DIRECT OR INDIRECT RESULT OF CONTRACTOR OPERATIONS, SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN THE ORIGINAL CONDITION. THE COST OF SAID RESTORATION OR REPAIR SHALL BE BORNE TOTALLY BY THE CONTRACTOR, WITH NO EXTRA COMPENSATION BEING AWARDED UNDER THIS CONTRACT. THE RESPONSIBILITY FOR THE REPAIR OR REPLACEMENT OF ANY UTILITY, STRUCTURE, LANDSCAPING, ETC., DAMAGED OR DESTROYED BY THE CONTRACTOR DURING MOBILIZATION OR CONSTRUCTION SHALL BE BORNE SOLELY BY THE CONTRACTOR, WITH NO EXPENSE BEING CHARGED TO THE ENGINEER OR OWNER. PRIOR TO ACCEPTANCE OF THIS REPAIR OR REPLACEMENT, THE CONTRACTOR SHALL PRESENT THE OWNER WITH A "SIGNOFF LETTER", SIGNED BY A RESPONSIBLE OFFICIAL OF THE OWNER OF THE DAMAGED UTILITY STATING THAT THE REPAIR OR REPLACEMENT IS ACCEPTABLE.

CONSTRUCTION STAKING

1. CONSTRUCTION STAKING SERVICES WILL BE PROVIDED BY FEHR GRAHAM. STAKE POINTS WILL BE STAKED ONE TIME WHEN REQUESTED BY THE CONTRACTOR. THE SAME STAKE POINTS REQUESTED BY THE CONTRACTOR A SECOND TIME WILL BE PAID FOR BY THE CONTRACTOR. CONSTRUCTION STAKING INCLUDES:
   - BUILDING CORNERS
   - PAVING GRADE
   - STORM SEWER

EROSION CONTROL NOTES

1. UNLESS OTHERWISE SPECIFIED, ALL EROSION AND SEDIMENT CONTROL MEASURES AND THEIR MAINTENANCE, CLEARING AND REMOVAL SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION.

2. THIS WORK SHALL CONFORM TO THE APPLICABLE STANDARDS FROM THE WISCONSIN DEPARTMENT OF NATURAL RESOURCES, THE WISCONSIN STORM WATER MANUAL, THE WISCONSIN DEPARTMENT TRANSPORTATION'S STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION, CURRENT EDITION, THE PROJECT SPECIFICATIONS, AND THE APPROPRIATE DETAILS.

3. A WATER RESOURCES APPLICATION FOR PROJECT PERMITS (WRAPP) WILL BE COMPLETED AND SUBMITTED TO THE WISCONSIN DEPARTMENT OF NATURAL RESOURCES BY THE OWNER PRIOR TO CONSTRUCTION.

4. THE EROSION CONTROL AND STORM WATER MANAGEMENT PLAN SHALL BE CONSIDERED PART OF THE CONTRACT DOCUMENTS AND WILL BE AVAILABLE FOR REVIEW DURING THE BIDDING PROCESS.

5. A COPY OF THE EROSION CONTROL AND STORM WATER MANAGEMENT PLAN WILL BE PROVIDED TO THE SUCCESSFUL BIDDER. THE CONTRACTOR SHALL MAINTAIN ONE COPY OF THE EROSION CONTROL AND STORM WATER MANAGEMENT PLAN AT THE CONSTRUCTION SITE AT ALL TIMES DURING WORKING HOURS FROM THE DATE OF PROJECT INITIATION TO THE DATE OF FINAL STABILIZATION.

6. THE CONTRACTOR SHALL LEGIBLY MARK ANY CHANGES OR REVISIONS IMPLEMENTED TO THE EROSION CONTROL AND STORM WATER MANAGEMENT PLAN. AT COMPLETION OF THE PROJECT, THE CONTRACTOR SHALL DELIVER THE EROSION CONTROL AND STORM WATER MANAGEMENT PLAN (INCLUDING ALL REVISIONS, RECORDS, AND INSPECTION REPORTS) TO THE OWNER.

7. THE GENERAL CONTRACTOR AND ANY SUBCONTRACTOR RESPONSIBLE FOR SEDIMENT AND EROSION CONTROL MEASURES OR CONSTRUCTION ACTIVITIES THAT DISTURB SITE SOIL WILL BE REQUIRED TO CERTIFY THE EROSION CONTROL AND STORM WATER MANAGEMENT PLAN BEFORE A NOTICE TO PROCEED IS ISSUED.

8. A COPY OF THE CONSTRUCTION SITE STORM WATER RUNOFF GENERAL WPDES PERMIT MUST BE AVAILABLE FOR PUBLIC VIEWING AT THE CONSTRUCTION SITE BY THE GENERAL CONTRACTOR.

9. THE CONTRACTOR SHALL IMPLEMENT THE EROSION AND SEDIMENT CONTROL MEASURES AS INDICATED ON THESE EROSION CONTROL PLANS AND IN THE EROSION CONTROL AND STORM WATER MANAGEMENT PLAN BEFORE CONSTRUCTION BEGINS.

10. THE CONTROLS SHALL BE INSTALLED AS DETAILED AND WHERE INDICATED ON THE EROSION CONTROL PLAN SHEETS AND AS DIRECTED BY THE INSPECTOR.

11. SITE ACTIVITIES SHOULD ENSURE THAT EXISTING VEGETATION IS PRESERVED WHERE PRACTICABLE.

12. EXCEPT AS PROVIDED IN THE EROSION CONTROL AND STORM WATER MANAGEMENT PLAN, DISTURBED PORTIONS OF THE SITE SHALL BE STABILIZED (TEMPORARILY OR PERMANENTLY SEEDED, MULCHED, SODDED OR PAVED) AS SOON AS PRACTICABLE, BUT IN NO CASE MORE THAN 7 CALENDAR DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED.

13. UNTIL SUCH TIME AS THE PROJECT SITE REACHES FINAL STABILIZATION AND A NOTICE OF TERMINATION IS FILED BY THE OWNER, THE CONTRACTOR SHALL BE RESPONSIBLE TO ADJUST, REPAIR, OR REPLACE, ALL VEGETATION, EROSION CONTROLS, SEDIMENT CONTROLS, AND ANY OTHER PROTECTIVE MEASURES AS REQUIRED IN ORDER TO MAINTAIN THEIR INTENDED FUNCTION IN A GOOD AND EFFECTIVE OPERATING CONDITION.

14. EXCEPT FOR FLOWS FROM FIRE FIGHTING ACTIVITIES, SOURCES OF NON–STORM WATER EXPECTED DURING THE CONSTRUCTION PROCESS THAT MAY BE COMBINED WITH STORM WATER DISCHARGES ARE IDENTIFIED IN THE EROSION CONTROL AND STORM WATER MANAGEMENT PLAN. THESE DISCHARGES SHALL BE DIRECTED AWAY FROM UNPROTECTED, BARE, OR OTHERWISE UNSTABILIZED SOIL, AND APPROPRIATE POLLUTION PREVENTION MEASURES SHALL BE IMPLEMENTED SO THAT THESE DISCHARGES DO NOT CAUSE EROSION OR DEGRADE THE QUALITY OF RUNOFF FROM THE CONSTRUCTION SITE.

15. REGULAR INSPECTIONS WILL BE MADE AS REQUIRED UNDER THE GENERAL WPDES PERMIT NO. WI–S067831–04 AND SPECIFIED IN THE EROSION CONTROL AND STORM WATER MANAGEMENT PLAN. A QUALIFIED INSPECTOR WILL BE PROVIDED BY THE OWNER. BASED ON THE RESULTS OF THE INSPECTIONS, POLLUTION PREVENTION MEASURES SHALL BE REVISED AS APPROPRIATE AS SOON AS PRACTICABLE AFTER EACH INSPECTION. SUCH REVISIONS SHALL BE IMPLEMENTED WITHIN 7 CALENDAR DAYS FOLLOWING EACH INSPECTION.

16. THE INSPECTOR SHALL HAVE AUTHORIZATION TO DETERMINE THE ADEQUACY OF THE CONTRACTOR'S EROSION CONTROL EFFORTS. THE OWNER OR THE INSPECTOR SHALL HAVE FULL AUTHORITY OVER THE GENERAL CONTRACTOR AND ANY SUBCONTRACTOR TO CAUSE POLLUTANT CONTROL MEASURES TO BE REPAIRED, MODIFIED, MAINTAINED, SUPPLEMENTED, OR WHATEVER ELSE IS NECESSARY IN ORDER TO ACHIEVE EFFECTIVE POLLUTANT CONTROL OR TO SUSPEND OR LIMIT THE CONTRACTORS OPERATIONS PENDING ADEQUATE PERFORMANCE.

17. PERIMETER EROSION BARRIER TO BE CONSTRUCTED OF SILT FENCE UNLESS NOTED OTHERWISE.

18. INLET PROTECTION SHALL BE A TYPE A, B, C OR D, OR APPROVED EQUAL.

19. EROSION CONTROL BLANKET SHALL BE OF NORTH AMERICAN GREEN DS75 OR APPROVED EQUAL.

20. A TEMPORARY CONCRETE WASHOUT FACILITY SHALL BE CONSTRUCTED AT A LOCATION APPROVED BY THE ENGINEER. WASHOUT FACILITY SHALL BE UTILIZED FOR ALL APPLICABLE OPERATIONS.

EROSION CONTROL NOTES

21. STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED, TO THE DIMENSIONS AS SHOWN, AT APPROVED LOCATIONS FOR THIS PROJECT. ALL CONSTRUCTION TRAFFIC MUST UTILIZE THE STABILIZED CONSTRUCTION ENTRANCES WHEN EXITING THE SITE. ALL COST FOR EROSION CONTROL AND RESTORATION WORK ASSOCIATED WITH THE APPROVED STABILIZED CONSTRUCTION ENTRANCES SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

22. TEMPORARY EROSION CONTROL MEASURES INCLUDE TEMPORARY DITCH CHECKS, PERIMETER EROSION BARRIER, INLET AND PIPE PROTECTION, TEMPORARY SEEDING, AND ANY OTHER TEMPORARY EROSION CONTROL MEASURE NEEDED TO LIMIT THE AMOUNT OF SOIL EROSION AND SEDIMENTATION DURING CONSTRUCTION.

23. AT THE COMPLETION OF THE PROJECT, ALL TEMPORARY EROSION CONTROL ITEMS SHALL BE REMOVED FROM THE SITE, AND BECOME THE PROPERTY OF THE CONTRACTOR. CONTRACTOR MUST STABILIZE ANY AREA DISTURBED BY THE REMOVAL OF EROSION CONTROL ITEMS.

24. CONTRACTOR SHALL CLEAN ANY DEBRIS TRACKED OFFSITE DAILY.

SEEDING OF DISTURBED AREAS

1. THE FINAL TOP 6" INCHES OF SOIL IN ANY DISTURBANCE AREA MUST BE A COHESIVE SOIL CAPABLE OF SUPPORTING VEGETATION.

2. FERTILIZER HAVING AN ANALYSIS OF 16–6–6 SHALL BE APPLIED AT A RATE OF 7 LBS/1000 SF TO ALL DISTURBED AREAS AND INCORPORATED INTO THE SEEDBED PRIOR TO SOWING THE SEED.

3. THE CONTRACTOR SHALL SEED AND STABILIZE ALL DISTURBED AREAS ADJACENT TO IMPROVEMENTS WITH SEEDING, WISDOT SEED MIXTURE NO. 10 AND NAG DS75 EROSION CONTROL BLANKET OR APPROVED EQUAL IN ACCORDANCE WITH WISDOT.

4. GUARANTEE: ALL SEEDED AREAS SHALL BE MAINTAINED AND MOWED FOR AT LEAST 30 DAYS AFTER GERMINATION. SCATTERED BARE SPOTS NO LARGER THAN TWO SQUARE FOOT WILL BE ALLOWED UP TO A MAXIMUM OF 5% OF ANY SEEDED AREA INCLUDING 30–DAY MAINTENANCE, MOWING AND WATERING AS NECESSARY.

5. THIS WORK SHALL CONFORM TO THE APPLICABLE STANDARDS FROM THE WISCONSIN DEPARTMENT OF NATURAL RESOURCES, THE WISCONSIN STORM WATER MANUAL, THE WISCONSIN DEPARTMENT TRANSPORTATION'S STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION, CURRENT EDITION, THE PROJECT SPECIFICATIONS, AND THE APPROPRIATE DETAILS.

6. RESTORATION – THE CONTRACTOR SHALL RESTORE ALL AREAS DISTURBED DURING CONSTRUCTION OF THE IMPROVEMENTS AND RELATED APPURTENANCES OR AS PART OF ANY OF THEIR ACTIVITIES TO A CONDITION EQUAL TO OR BETTER THAN THE ORIGINAL CONDITION.

ZONING DISTRICT: I–1 INDUSTRIAL DISTRICT
LAND USE: BREWERY/WAREHOUSE

FEHR GRAHAM
ENGINEERING & ENVIRONMENTAL
ILLINOIS
IOWA
WISCONSIN

OWNER/DEVELOPER:
NEW GLARUS BREWING CO.
2400 WISCONSIN 69
NEW GLARUS, WI 53574

PROJECT AND LOCATION:
NEW GLARUS BREWING CO.
WAREHOUSE ADDITION
NEW GLARUS, WI

DRAWN BY: K.K.
APPROVED BY: J.D.
DATE: 02/17/23
SCALE: AS NOTED

REVISIONS

REV. NO.	DESCRIPTION	DATE

DRAWING: GENERAL NOTES

SET TYPE: REVIEW SET
G:\C3D\22\22-821\Plans\22-821 PLANS.dwg, Notes 1

JOB NUMBER: 22–821

SHEET NUMBER: 3 of 12

PLOT DATE: 2/17/23

STORM SEWER

1. STORM SEWERS THAT CROSS OVER ANY PROPOSED WATER MAIN SHALL BE CONSTRUCTED WITH RUBBER GASKETED JOINTS (ASTM C443).
2. ALL EXISTING MANHOLE CONNECTIONS MUST BE CORE-DRILLED, UNLESS A PRE-CORED HOLE, SUITABLY LOCATED, EXISTS IN THE MANHOLE.
3. THE LENGTH OF FLARED END SECTIONS IS NOT INCLUDED IN THE INDICATED PIPE LENGTH. HOWEVER, THE ENTIRE LENGTH OF THE FLARED END SECTION IS TAKEN INTO ACCOUNT FOR THE INDICATED SLOPE AND INVERT GRADES.
4. STORM SEWERS MATERIALS AND INSTALLATION SHALL CONFORM TO SECTION 508 OF THE STANDARD SPECIFICATIONS FOR REINFORCED CONCRETE PIPE STORM SEWERS. THIS WORK SHALL INCLUDE SEWER PIPE, PIPE BEDDING, TRENCH BACKFILL, MAKING CONNECTIONS TO EXISTING STRUCTURES, PATCHING EXISTING STRUCTURES AT NEW CONNECTIONS, STOPPERS AND PLUGS, AND ANY OTHER INCIDENTAL COSTS. ALL WORK SHALL CONFORM TO DETAILS INCLUDED IN THE CONTRACT DOCUMENTS, OR TO ORDERED MODIFICATIONS THEREFORE, AND TO APPLICABLE PORTIONS OF SECTIONS 607 AND 608 OF THE STANDARD SPECIFICATIONS AND IN ACCORDANCE WITH THE REQUIREMENTS OF THE OWNER. PIPE BEDDING OF 4" WELL GRADED DURABLE GRAVEL, CRUSHED STONE, OR SLAG WILL BE REQUIRED. IN STRUCTURAL LOCATIONS AND ROADWAY PAVEMENT, BEDDING MATERIAL SHALL BE PLACED TO ONE FOOT ABOVE THE TOP OF THE PIPE. TRENCH BACKFILL FROM THIS ELEVATION TO PAVEMENT SUBGRADE WILL BE REQUIRED. COST FOR BACKFILL, BEDDING, AND ALL NECESSARY WORK REQUIRED FOR INSTALLATION SHALL BE INCLUDED WITH THE COST OF THE PIPE.
5. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING STORM SEWER ELEVATIONS THAT PROJECT CONNECTS TO.

MATERIAL AND COMPACTION TESTING

1. A GEOTECHNICAL REPRESENTATIVE WILL BE PROVIDED AND PAID FOR BY THE OWNER FOR ANY REQUIRED TESTING. THE CONTRACTOR IS RESPONSIBLE TO FOLLOW AND MEET GUIDELINES SET BY THE GEOTECHNICAL REPRESENTATIVE.

UTILITIES

1. UTILITIES SHOWN ON THE PLANS ARE FOR ILLUSTRATIVE PURPOSES ONLY AND NO GUARANTEE OF THEIR ACCURACY IS MADE OR INFERRED. THE LOCATION OF EXISTING UTILITIES AS SHOWN ON THE DRAWINGS REPRESENT DATA RECEIVED FROM VARIOUS SOURCES. IT IS NOT GUARANTEED TO BE CORRECT OR ALL-INCLUSIVE. THE CONTRACTOR SHALL CONDUCT HIS OWN INVESTIGATION INTO THE LOCATION, SIZE, DEPTH AND NATURE OF ANY AND ALL EXISTING UTILITIES THAT MAY INTERFERE WITH THE WORK UNDER THIS CONTRACT. ANY EXISTING UTILITIES THAT ARE TO REMAIN IN SERVICE SHALL BE FULLY PROTECTED BY THE CONTRACTOR AND ANY DAMAGE CAUSED BY THE CONSTRUCTION OPERATIONS SHALL BE IMMEDIATELY REPAIRED OR REPLACED TO THE SATISFACTION OF THE ENGINEER OR THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ANY AND ALL UTILITY COMPANIES REGARDING ADJUSTMENTS NECESSARY. THIS WORK SHALL BE AT THE CONTRACTOR'S EXPENSE AND CONSIDERED INCIDENTAL TO THE PROJECT COST. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND, OVERHEAD, OR SURFACE UTILITIES EVEN THOUGH THEY MAY NOT BE SHOWN ON THE PLANS. ANY UTILITY THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER OR THE OWNER OR REPLACED. THIS WORK SHALL BE AT THE CONTRACTOR'S EXPENSE.
2. THE CONTRACTOR MUST VERIFY AND LOCATE ALL EXISTING UTILITIES ON OR ADJACENT TO THE SITE. PRIOR TO BEGINNING CONSTRUCTION ACTIVITIES, CONTACT DIGGERS HOTLINE AT 1-800-242-8511 (OR 811) FOR EXACT FIELD LOCATION OF UTILITIES. DAMAGE, AND THE COST THEREOF, TO ANY AND ALL UTILITIES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. ANY AND ALL EXISTING UTILITIES SHOWN HEREON ARE APPROXIMATE. THE ENGINEER AND SURVEYOR ASSUMES NO RESPONSIBILITY FOR THE LOCATION OF THE EXISTING UTILITIES SHOWN HEREON.
3. IF THERE ARE ANY UTILITIES WHICH ARE NOT MEMBERS OF THE DIGGERS HOTLINE SYSTEM, THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR DETERMINING THIS AND REQUESTING SAID UTILITIES TO FIELD VERIFY AND MARK PERTINENT UTILITY LOCATIONS.
4. THE UTILITY LOCATIONS, DEPTHS, ETC. SHOWN ON THESE PLANS ARE APPROXIMATE ONLY, AND SHALL BE VERIFIED BY THE CONTRACTOR WITH ALL AFFECTED UTILITY COMPANIES PRIOR TO INITIATING CONSTRUCTION OPERATIONS; THE ENGINEER AND OWNER ASSUME NO RESPONSIBILITY FOR THE ADEQUACY, SUFFICIENCY OR EXACTNESS OF THESE UTILITY REPRESENTATIONS.
5. THE CONTRACTOR SHALL CONTACT THE NECESSARY UTILITY COMPANIES FOR ANY UTILITY RELOCATIONS. THE CONTRACTOR SHALL PAY FOR ALL COSTS ASSOCIATED WITH RELOCATION OF UTILITIES ON OR ADJACENT TO THE SUBJECT PROPERTY OR WITHIN THE ROAD RIGHT-OF-WAY.
6. TRENCH BACKFILL SHALL BE FILL MATERIAL TYPE A, OR TYPE C, IN ACCORDANCE WITH AASHTO T27 GUIDELINES AND THE WISCONSIN DEPARTMENT OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN", CURRENT EDITION. COST SHALL BE INCLUDED IN UNIT PRICE OF PIPE.
7. TRENCH BACKFILL SHALL BE USED IN LOCATIONS WHERE THERE IS AN EXISTING OR PROPOSED PERMANENT SURFACE.
8. ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH CONSTRUCTION OR HAVE THE POTENTIAL FOR CREATING FUTURE PROBLEMS SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE PROJECT AT AN APPROVED LOCATION OBTAINED BY THE CONTRACTOR, ACCORDING TO THE "STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN", CURRENT EDITION, AND AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED INCIDENTAL TO EARTH EXCAVATION AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
9. ANY AND ALL FIELD TILES AND OR STORM SEWERS DAMAGED OR ENCOUNTERED DURING THE CONSTRUCTION ACTIVITIES SHALL BE REPAIRED, REPLACED AND/OR CONNECTED IMMEDIATELY BY THE CONTRACTOR. COST FOR SAID REPAIRS, REPLACEMENT, AND/OR CONNECTION SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

TRAFFIC CONTROL

1. THE CONTRACTOR SHALL PROVIDE, INSTALL AND MAINTAIN ALL TRAFFIC CONTROL ITEMS NECESSARY FOR THE CONSTRUCTION OF ITEMS WITH IN THE ROAD RIGHT-OF-WAY. ALL WORK PERFORMED SHALL HAVE TRAFFIC CONTROL IN ACCORDANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AND OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION, CURRENT EDITION.
2. ALL TRAFFIC CONTROL DEVICES USED FOR THE MAINTENANCE OF TRAFFIC SHALL BE REFLECTORIZED PRIOR TO INSTALLATION AND CLEANED AS NECESSARY THROUGHOUT THE DURATION OF THE CONTRACT. ALL SIGNS SHALL BE FURNISHED, INSTALLED AND MAINTAINED BY THE CONTRACTOR. PAYMENT SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.
3. TRAFFIC CONDITIONS, ACCIDENTS, AND OTHER UNFORESEEN CONDITIONS MAY REQUIRE THE ENGINEER TO MODIFY THE LOCATION OF THE TRAFFIC CONTROL DEVICES. THE CONTRACTOR SHALL MAKE THE NECESSARY ADJUSTMENTS AS DIRECTED BY THE ENGINEER WITHOUT DELAY. THE CONTRACTOR SHALL RESPOND WITHIN 30 MINUTES FROM THE TIME OF NOTIFICATION BY THE ENGINEER TO ANY REQUEST MADE BY THE ENGINEER FOR CORRECTION, IMPROVEMENT OR MODIFICATION OF THE MAINTENANCE OF TRAFFIC CONTROL DEVICES. DURING CONSTRUCTION OPERATIONS, THE CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO PROTECT ADJACENT TRAFFIC LANES OPEN TO TRAFFIC FROM DEBRIS BEING BLOWN OR OTHERWISE REMOVED FROM THE CONSTRUCTION AREAS. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR KEEPING DEBRIS OFF THE ADJACENT TRAVELED LANE SURFACE. COST INCIDENTAL TO THE PROJECT.
4. THE CONTRACTOR SHALL SUBMIT MAINTENANCE OF TRAFFIC AND STAGING OF CONSTRUCTION PLANS FOR APPROVAL BY THE ENGINEER PRIOR TO COMMENCING WORK.
5. THE CONTRACTOR SHALL PERFORM THE WORK UNDER STAGE CONSTRUCTION IN THE EVENT THAT THE CONTRACTOR WILL NEED TO CLOSE PUBLIC ROADS, CONTRACTOR SHALL SUBMIT PROPOSED DETOUR ROUTE AND ASSOCIATED SIGNAGE TO THE ENGINEER PRIOR TO COMMENCING WORK.
6. TRAFFIC CONTROL DEVICES, STREET NAME SIGNS, AND PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH VILALGE OF NEW GLARUS ORDINANCES AND THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES". LOCATIONS OF SIGNS AND MARKINGS SHALL BE SPECIFIED BY THE PLANS, AND/OR AS DIRECTED BY THE ENGINEER.
7. PROVIDE TO THE ENGINEER AND THE OWNER THE NAME AND PHONE NUMBER OF INDIVIDUALS RESPONSIBLE FOR MAINTAINING TRAFFIC CONTROL MEASURES DURING CONSTRUCTION. THIS INDIVIDUAL SHALL BE AVAILABLE TO CORRECT TRAFFIC CONTROL PROBLEMS 24 HOURS PER DAY.
8. THE CONTRACTOR SHALL NOTIFY THE POST OFFICE, POLICE DEPARTMENT, FIRE DEPARTMENT, 911 DISPATCH CENTER, WISCONSIN DEPARTMENT OF TRANSPORTATION, STATE POLICE, APPROPRIATE SCHOOL DISTRICT AND THE LOCAL AGENCY A MINIMUM OF 5 DAYS PRIOR TO CLOSING ANY PORTION OF THE STREET OR ALLEY.

SUBGRADES, SUBBASES, AND BASE COURSES

1. THE CONTRACTOR WILL BE REQUIRED TO SUBSTANTIATE BASE COURSE THICKNESSES AND FINISH PAVEMENT THICKNESSES. THE ENGINEER SHALL INSPECT BASE COURSE COREOUT PRIOR TO PLACING BASE COURSE TO ENSURE REQUIRED BASE COURSE DEPTH IS PRESENT. IN ADDITION, THE ENGINEER AND/OR THE CITY ENGINEER SHALL WITNESS THE PLACEMENT OF BITUMINOUS BINDER AND SURFACE COURSE. CORE DRILLING MAY BE REQUIRED TO DEMONSTRATE THAT BASE COURSE AND PAVEMENT THICKNESSES CONFORM TO THE SPECIFICATIONS. PRIOR TO PLACING BASE COURSE MATERIAL, THE CONTRACTOR SHALL TEST ROLL THE SUBGRADE, IN THE PRESENCE OF THE ENGINEER OR HIS AGENT TO DEMONSTRATE THAT SAID SUBGRADE IS READY FOR BASE. PRIOR TO PLACEMENT OF THE BITUMINOUS SURFACE, THE SAME VERIFICATION PROCEDURE SHALL BE PERFORMED ON THE BASE COURSE MATERIAL. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST 48 HOURS PRIOR TO PERFORMING ANY OF THE REQUIRED TESTS SO THAT A REPRESENTATIVE MAY BE PRESENT.
2. PRIOR TO ANY EMBANKMENT OR ROAD BASE BEING PLACED, SHOULD IT BE DETERMINED BY THE ENGINEER THAT THE SUBGRADE MATERIAL IS UNSUITABLE ON WHICH TO CONSTRUCT THE ROADWAY STRUCTURE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING THE UNSUITABLE MATERIAL TO THE SATISFACTION OF THE ENGINEER AND REPLACING SAME WITH STABILIZING SUBBASE CONSISTING OF SELECT CRUSHED MATERIAL IN ACCORDANCE WITH THE WISCONSIN DEPARTMENT OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION, CURRENT EDITION. TO HELP MINIMIZE THE AMOUNT OF SUBBASE MATERIAL INSTALLED FOR GROUND STABILIZATION, GEOTECHNICAL FABRIC MAY BE INSTALLED AS APPROVED BY THE ENGINEER. GEOTEXTILE FABRIC SHALL BE INSTALLED IN ACCORDANCE WITH SECTION 645 OF THE WISDOT STANDARD SPECIFICATIONS. THE COARSE AGGREGATE SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC YARD FOR SELECT CRUSHED MATERIAL. THE EXCAVATION BELOW SUBGRADE AND DISPOSAL OF THE UNSUITABLE MATERIAL SHALL BE CONSIDERED INCIDENTAL TO SELECT CRUSHED MATERIAL. STABILIZING FABRIC SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD FOR GEOTEXTILE FABRIC.

EXCAVATION/EARTHWORK

1. THE CONTRACTOR SHALL USE CARE IN GRADING OR EXCAVATION NEAR ANY AND ALL EXISTING ITEMS WHICH ARE NOT INDICATED TO BE REMOVED. ANY DAMAGE DONE TO EXISTING ITEMS BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED AT NO ADDITIONAL EXPENSE TO THE OWNER.
2. PRIOR TO STARTING EARTHWORK OR UTILITY TRENCHING, THE CONTRACTOR SHALL STRIP THE SITE OF TOPSOIL TO A DEPTH OF 6" AND TO THE LIMITS APPROVED BY THE ENGINEER. THIS MATERIAL SHALL BE STOCKPILED IN A REMOTE LOCATION OF THE SITE (APPROVED BY THE ENGINEER) UNTIL THE PLAN IMPROVEMENTS ARE COMPLETED AND THE EXCESS MATERIAL SPREAD AS DIRECTED. IT SHALL THEN BE THE RESPONSIBILITY OF THE CONTRACTOR TO SPREAD THIS TOPSOIL MATERIAL IN AREAS OF THE SITE, OVER AREAS WHERE EXCESS EXCAVATED MATERIAL, SAND, GRAVEL HAS BEEN SPREAD OR IN OTHER AREAS AS DESIGNATED BY THE ENGINEER. THE MATERIAL SHALL THEN BE COMPACTED TO A MINIMAL DEPTH OF 6" AND FINE GRADED IN A MANNER ACCEPTABLE TO THE ENGINEER. THIS WORK SHALL BE IN ACCORDANCE WITH THE WISCONSIN DEPARTMENT OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION, CURRENT EDITION.
3. CONSTRUCTION AND DEMOLITION (C&D) MATERIALS ARE TO BE MANAGED ACCORDINGLY PER THE WISCONSIN DEPARTMENT OF NATURAL RESOURCES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MANAGE THE DIVERSION OF C&D MATERIAL AWAY FROM LANDFILLS ACCORDING TO STATE REQUIREMENTS.
4. ROCK REMOVAL TO BE PROVIDED BY MECHANICAL MEANS ONLY, NO BLASTING PERMITTED. ROCK EXCAVATION SHALL BE CONSIDERED WHEN THE PHYSICAL CHARACTERISTICS AND DIFFICULTY OF ROCK REMOVAL BY USE OF HYDRAULIC EXCAVATION IS DETERMINED BY ENGINEER TO NOT BE POSSIBLE. ROCK EXCAVATION TO BE PAID FOR AT THE BID PRICE FOR EXCAVATION.
5. ALL EXCAVATIONS FOR STRUCTURES AND PIPE SHALL BE KEPT DEWATERED DURING CONSTRUCTION UNTIL BACKFILL IS IN PLACE. DURING DEWATERING OPERATIONS, WATER SHALL BE PUMPED INTO SEDIMENT BASINS OR SILT TRAPS. (COST INCIDENTAL)
6. EXCAVATION COMMON SHALL CONFORM TO SECTION 205 OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION, CURRENT EDITION. THIS WORK SHALL INCLUDE THE EXCAVATION OF ALL MATERIALS TO DESIGN SUBGRADE ELEVATIONS INDICATED IN THE PLANS.
7. A SOIL REPORT CAN BE PROVIDED IN AN ELECTRONIC FORMAT TO THE CONTRACTOR UPON REQUEST FROM THE OWNER.
8. SHEETING AND SHORING SHALL BE CONSIDERED INCIDENTAL TO CONTRACT IF REQUIRED.
9. WHENEVER THE CONTRACTOR WORKS NEAR EXISTING FACILITIES WITHIN THE LIMITS OF THE IMPROVEMENTS DURING TRENCHING OPERATIONS, HE WILL BE REQUIRED TO HAND TRENCH IN THAT AREA IN ORDER NOT TO DAMAGE THESE FACILITIES. PUSH HOLES AND SEARCH HOLES THAT ARE DUG BY THE CONTRACTOR SHALL BE BACKFILLED BY TAMPING THE EXCAVATED MATERIAL BACK IN PLACE TO KEEP SETTLEMENT TO A MINIMUM. NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
10. EMBANKMENT WORK SHALL CONSIST OF THE CONSTRUCTION OF EMBANKMENTS BY DEPOSITING, PLACING AND COMPACTING EARTH, STONE, GRAVEL OR OTHER MATERIALS OF ACCEPTABLE QUALITY ABOVE THE NATURAL GROUND OR OTHER SURFACE IN ACCORDANCE WITH THE WISCONSIN DEPARTMENT OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION, CURRENT EDITION.
11. IF SUFFICIENT TOPSOIL IS NOT PRESENT, THE CONTRACTOR SHALL SPREAD FURNISHED TOPSOIL SO AS TO MEET THE REQUIREMENTS OF THE CONTRACT. FURNISHED TOPSOIL SHALL ONLY BE USED WITH APPROVAL BY THE ENGINEER. THIS FURNISHED TOPSOIL SHALL BE PAID FOR AS TOPSOIL, DEPTH SPECIFIED.
12. IN PROPOSED FILL AREAS FOR PAVEMENT AND EMBANKMENT, TOPSOIL AND TURF SHALL BE SCARIFIED AND REMOVED PRIOR TO CONSTRUCTING THE EMBANKMENT.

OWNER/DEVELOPER:
NEW GLARUS BREWING CO.
2400 WISCONSIN 69
NEW GLARUS, WI 53574

PROJECT AND LOCATION:
NEW GLARUS BREWING CO.
WAREHOUSE ADDITION
NEW GLARUS, WI

DRAWN BY: K.K.
APPROVED BY: J.D.
DATE: 02/17/23
SCALE: AS NOTED

REVISIONS

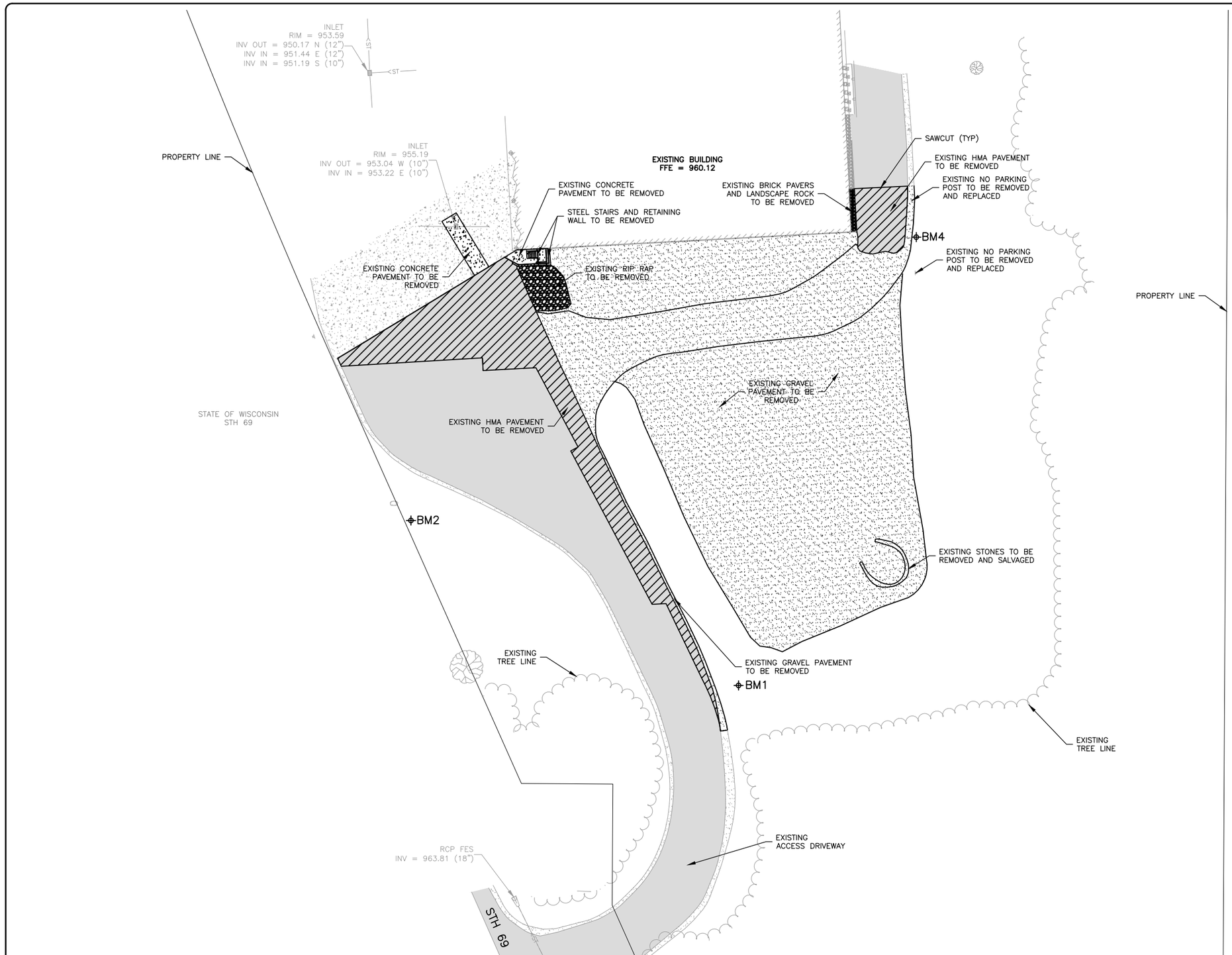
REV. NO.	DESCRIPTION	DATE

DRAWING:
GENERAL NOTES

SET TYPE: REVIEW SET
G:\C3D\22\22-821\Plans\22-821 PLANS.dwg, Notes 2

JOB NUMBER:
22-821

SHEET NUMBER:
4 of 12



BM1

BM1 = CAPPED REBAR (CP1)
N–206928.72, E–614137.37, ELEV–965.22

BM2 = CAPPED REBAR (CP2)
N–207027.30, E–613941.43, ELEV–969.23

BM3 = CAPPED REBAR (CP3)
N–206726.04, E–614052.13, ELEV–971.32

BM4 = CAPPED REBAR (CP4)
N–207196.73, E–614243.67, ELEV–956.29

N W E S

30 0 30 60 90 FEET

FEHR GRAHAM
ENGINEERING & ENVIRONMENTAL

ILLINOIS
IOWA
WISCONSIN

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NEW GLARUS, WI

DRAWN BY: K.K.
APPROVED BY: J.D.
DATE: 02/17/23
SCALE: AS NOTED

REVISIONS

REV. NO.	DESCRIPTION	DATE

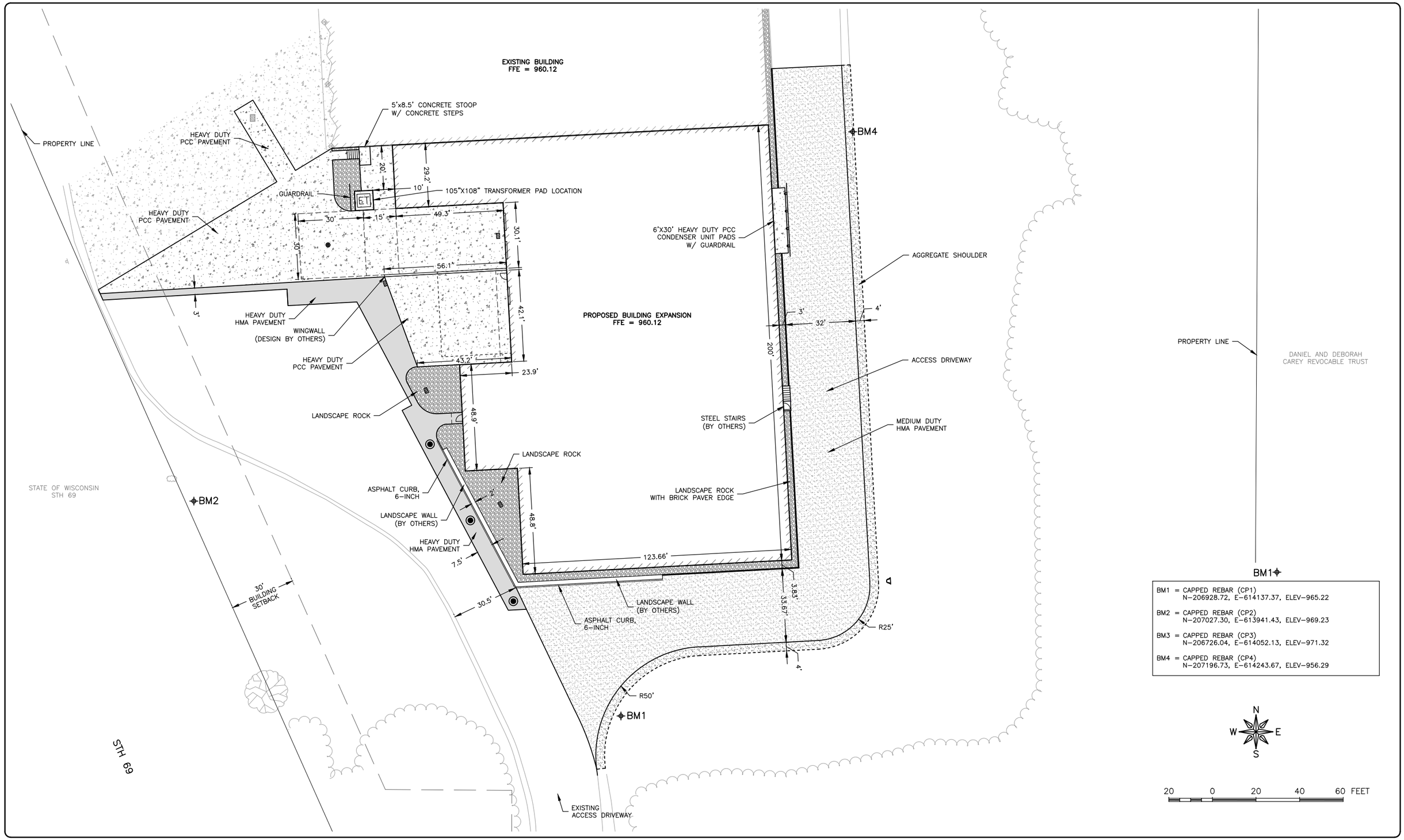
DRAWING:
EXISTING CONDITIONS AND REMOVAL PLAN

SET TYPE:
G:\C3D\22\22-821\22-821 Removals.dwg, REMOVAL

JOB NUMBER:
22–821

SHEET NUMBER:
5 of 12

PLOT DATE: 2/17/23



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IOWA
WISCONSIN

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NEW GLARUS, WI 53574

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WAREHOUSE ADDITION
NEW GLARUS, WI

DRAWN BY: K.K.
APPROVED BY: J.D.
DATE: 02/17/23
SCALE: AS NOTED

REVISIONS

REV. NO.	DESCRIPTION	DATE

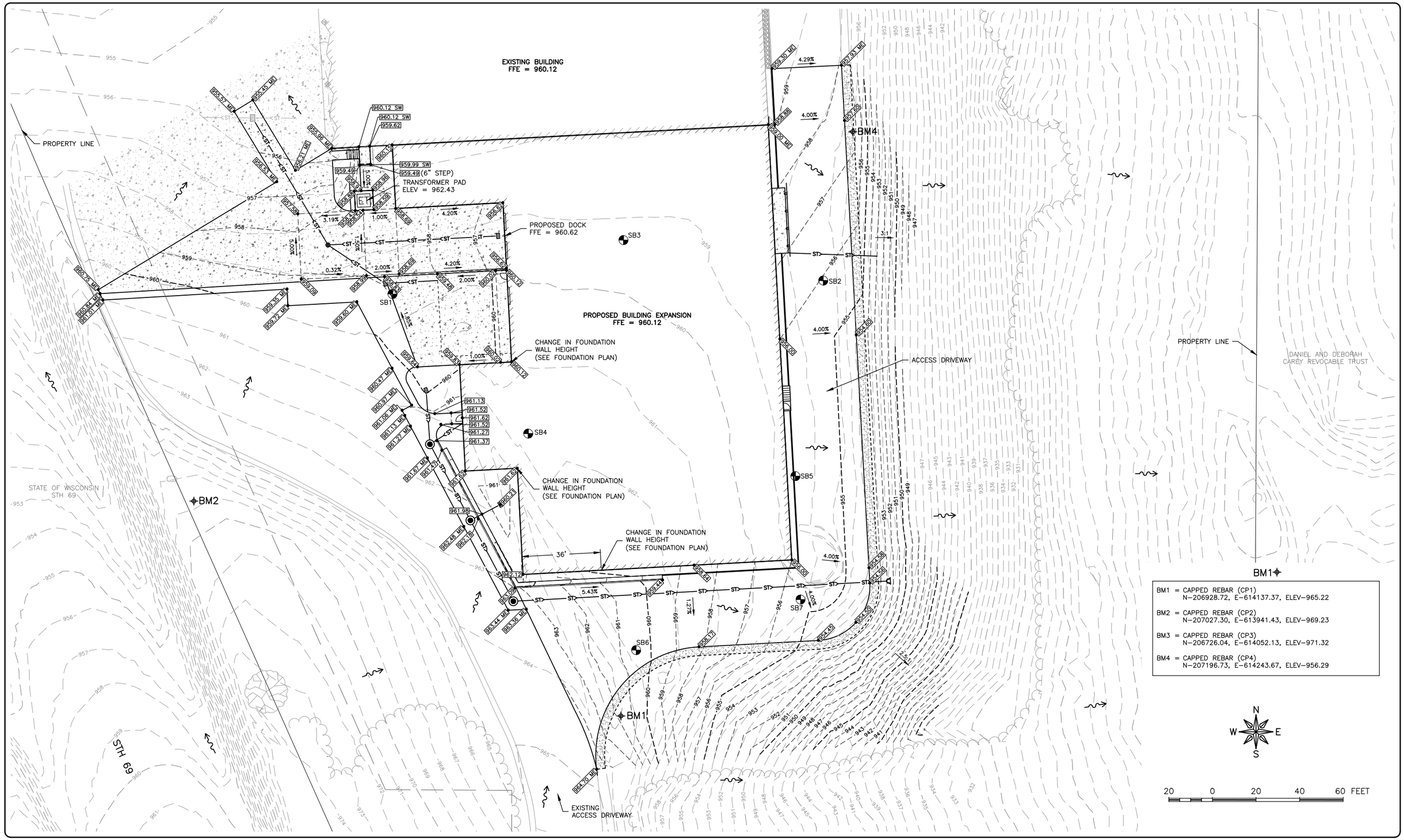
DRAWING:
SITE LAYOUT PLAN

SET TYPE:
G:\C3D\22\22-821\Plans\22-821 PLANS.dwg, SITE

JOB NUMBER:
22-821

SHEET NUMBER:
6 of 12

PLOT DATE: 2/17/23



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NEW GLARUS, WI

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APPROVED BY: J.D.
DATE: 02/17/23
SCALE: AS NOTED

REVISIONS

REV. NO.	DESCRIPTION	DATE

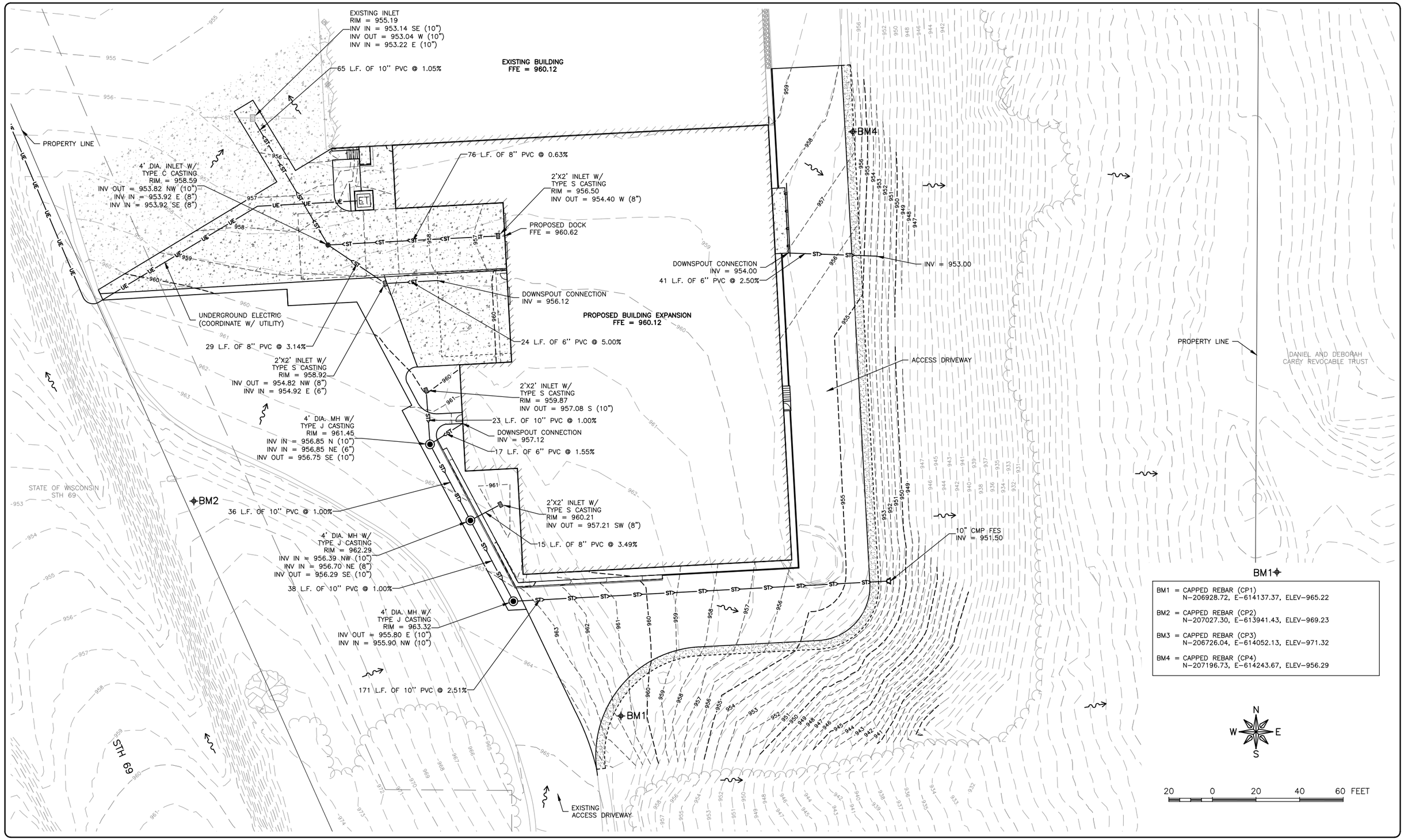
DRAWING:
GRADING PLAN

SET TYPE:
G:\C3D\22\22-821\Plans\22-821 PLANS.dwg, GRADING

JOB NUMBER:
22-821

SHEET NUMBER:
7 of 12

PLOT DATE: 2/17/23



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WISCONSIN

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NEW GLARUS, WI

DRAWN BY: K.K.
APPROVED BY: J.D.
DATE: 02/17/23
SCALE: AS NOTED

REVISIONS

REV. NO.	DESCRIPTION	DATE

DRAWING:
UTILITIES PLAN

SET TYPE:
G:\C3D\22\22-821\Plans\22-821 PLANS.dwg, UTILITIES

JOB NUMBER:
22-821

SHEET NUMBER:
8 of 12

PLOT DATE: 2/17/23

EXISTING BUILDING
FFE = 960.12

PROPOSED BUILDING EXPANSION
FFE = 960.12

PROPOSED DOCK
FFE = 960.62

INLET PROTECTION

PROPERTY LINE

AREA OF DISTURBANCE = 68,850 SF

SILT FENCE

ACCESS DRIVEWAY

SEEDING AND RESTORATION

MEDIUM DUTY RIP RAP WITH TYPE HR FABRIC

EROSION MAT URBAN TYPE B

TRACKING PAD

CONCRETE WASHOUT

EXISTING ACCESS DRIVEWAY

STATE OF WISCONSIN STH 69

STH 69

DANIEL AND DEBORAH CAREY REVOCABLE TRUST

BM1 = CAPPED REBAR (CP1)
N-206928.72, E-614137.37, ELEV-965.22

BM2 = CAPPED REBAR (CP2)
N-207027.30, E-613941.43, ELEV-969.23

BM3 = CAPPED REBAR (CP3)
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BM4 = CAPPED REBAR (CP4)
N-207196.73, E-614243.67, ELEV-956.29

N W E S

20 0 20 40 60 FEET

FEHR GRAHAM
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DATE: 02/17/23
SCALE: AS NOTED

REVISIONS

REV. NO.	DESCRIPTION	DATE

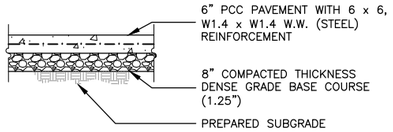
DRAWING:
EROSION CONTROL PLAN

SET TYPE:
G:\C3D\22\22-821\Plans\22-821 PLANS.dwg, EROSION

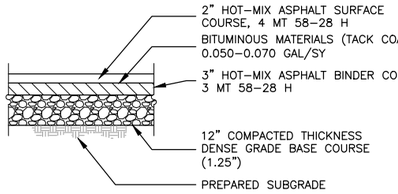
JOB NUMBER:
22-821

SHEET NUMBER:
9 of 12

PLOT DATE: 2/17/23

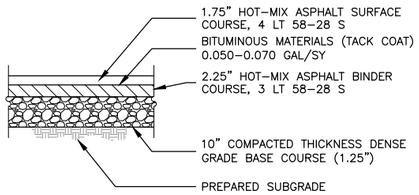


CONCRETE PAVEMENT



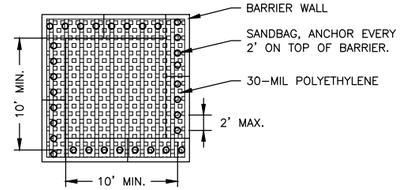
HEAVY DUTY HOT-MIX ASPHALT PAVEMENT

NOTE:
IN THE PRESENCE OF SOFT SOILS 12" OF ADDITIONAL COARSE AGGREGATE (BREAKER RUN) OVER BIAXIAL GEOGRID (TENSAR BX TYPE 1) MAY BE REQUIRED.

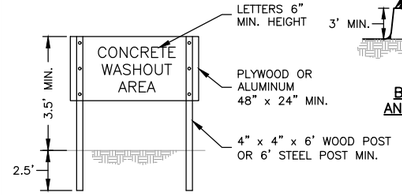


MEDIUM DUTY HOT-MIX ASPHALT PAVEMENT

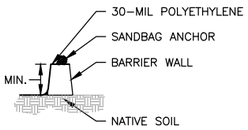
PAVEMENT CROSS SECTIONS
N.T.S.



PLAN VIEW



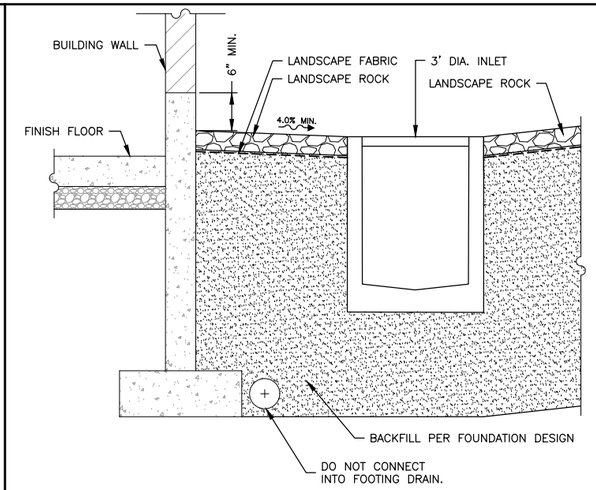
SIGN DETAIL



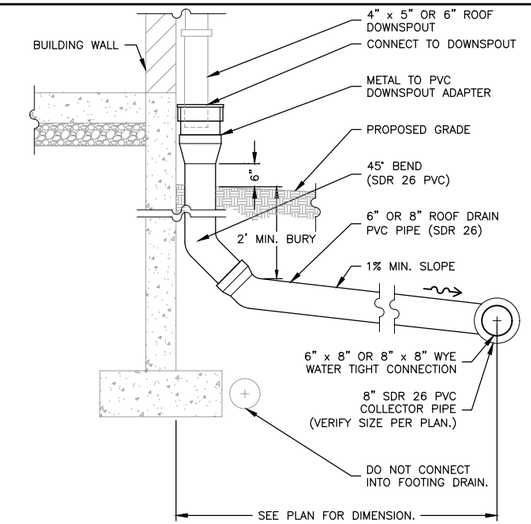
BARRIER WALL ANCHOR SECTION

NOTE: MAINTAINING TEMPORARY CONCRETE WASHOUT FACILITIES SHALL INCLUDE REMOVING AND DISPOSING OF HARDENED CONCRETE AND/OR SLURRY AND RETURNING THE FACILITIES TO A FUNCTIONAL CONDITION. FACILITY SHALL BE CLEANED OR RECONSTRUCTED IN A NEW AREA ONCE WASHOUT BECOMES TWO-THIRDS FULL.

CONCRETE WASHOUT PIT DETAIL
N.T.S.



FINISHED GRADE ADJACENT TO BUILDING
N.T.S.



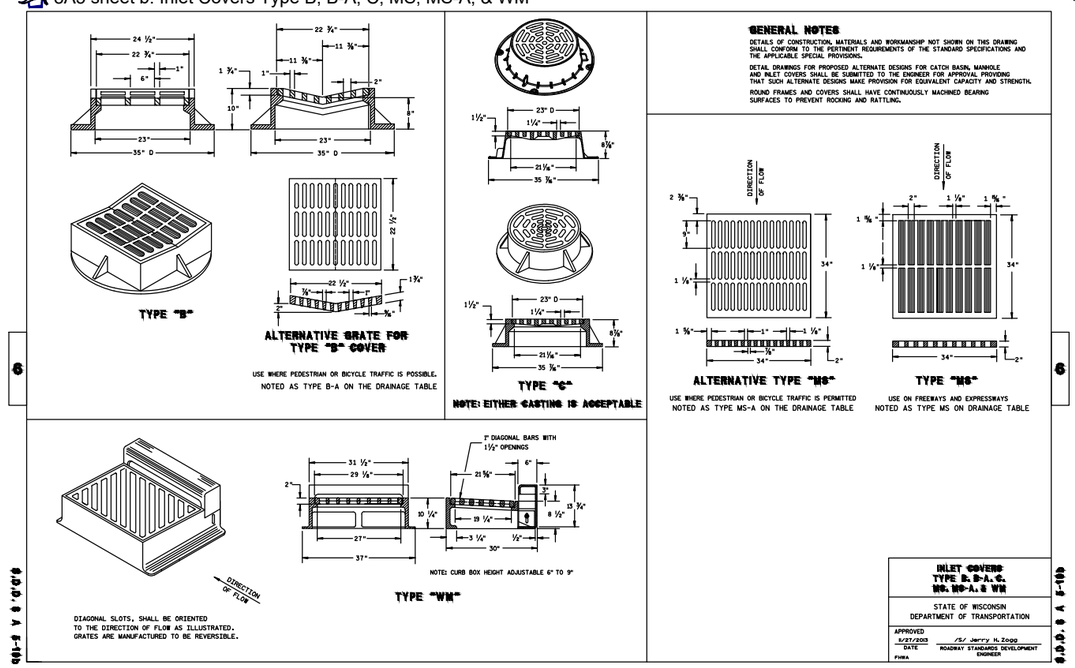
NOTE: ALL CONNECTIONS FROM DOWNSPOUT LATERAL TO COLLECTOR PIPE SHOULD BE MADE WITH A PVC SDR 26 WYE OR TEE CONNECTION.

ALL PIPE OUTLETS MUST HAVE A RODENT GUARD.

ALL 6" OR 8" PVC PIPE, FITTINGS, AND CONNECTIONS SHALL BE CONSIDERED INCIDENTAL TO BUILDING CONSTRUCTION.

DOWNSPOUT COLLECTOR DETAIL
N.T.S.

8A5 sheet b: Inlet Covers Type B, B-A, C, MS, MS-A, & WM



FEHR GRAHAM
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IOWA
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NEW GLARUS, WI

DRAWN BY: K.K.
APPROVED BY: J.D.
DATE: 02/17/23
SCALE: AS NOTED

REVISIONS

REV. NO.	DESCRIPTION	DATE

DRAWING:
DETAILS

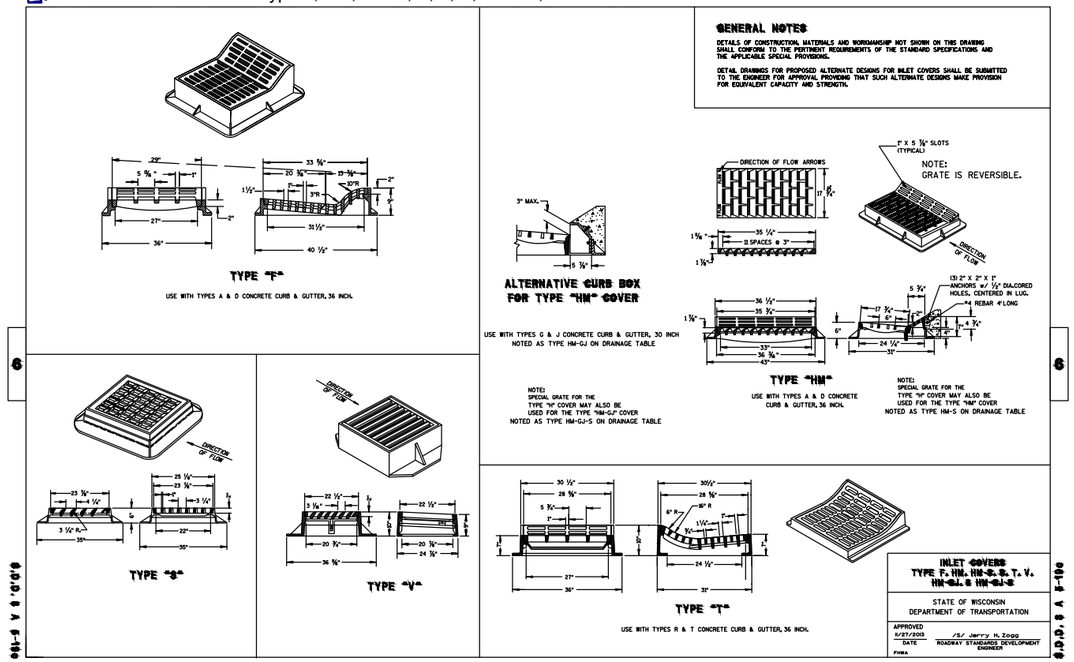
SET TYPE: REVIEW SET
G:\C3D\22\22-821\Plans\22-821 PLANS.dwg, DETAILS

JOB NUMBER:
22-821

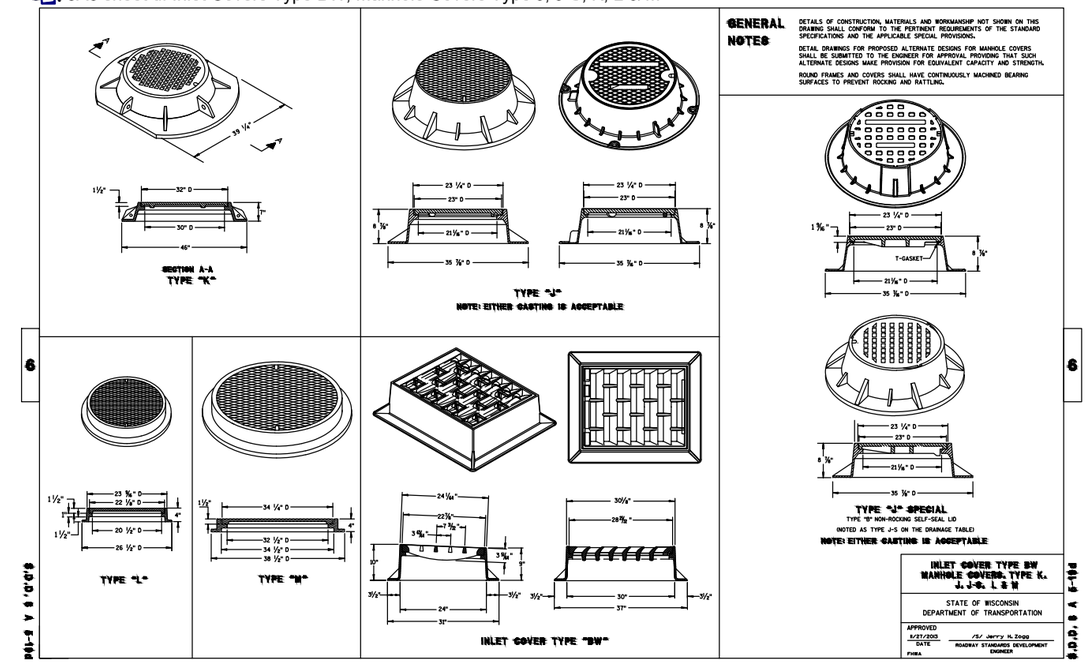
SHEET NUMBER:
10 of 12

PLOT DATE: 2/17/23

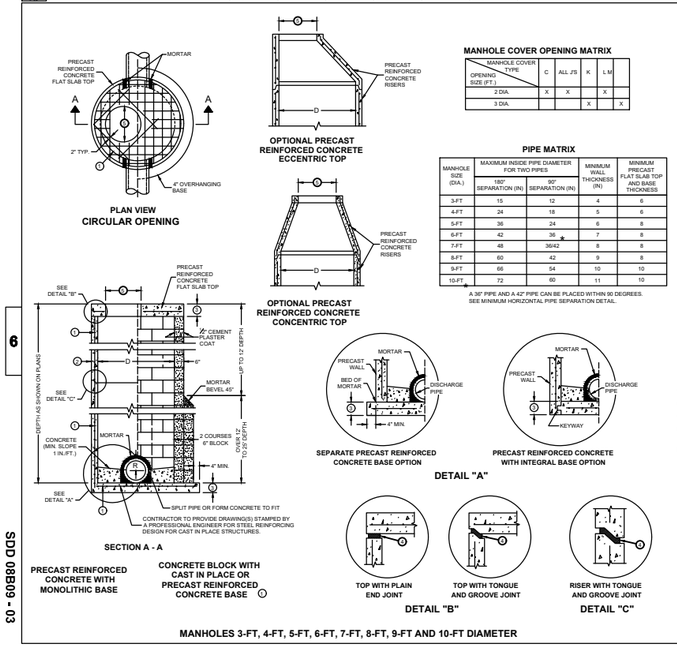
8A5 sheet c: Inlet Covers Type F, HM, HM-S, S, T, V, HM-GJ, & HM-GJ-S



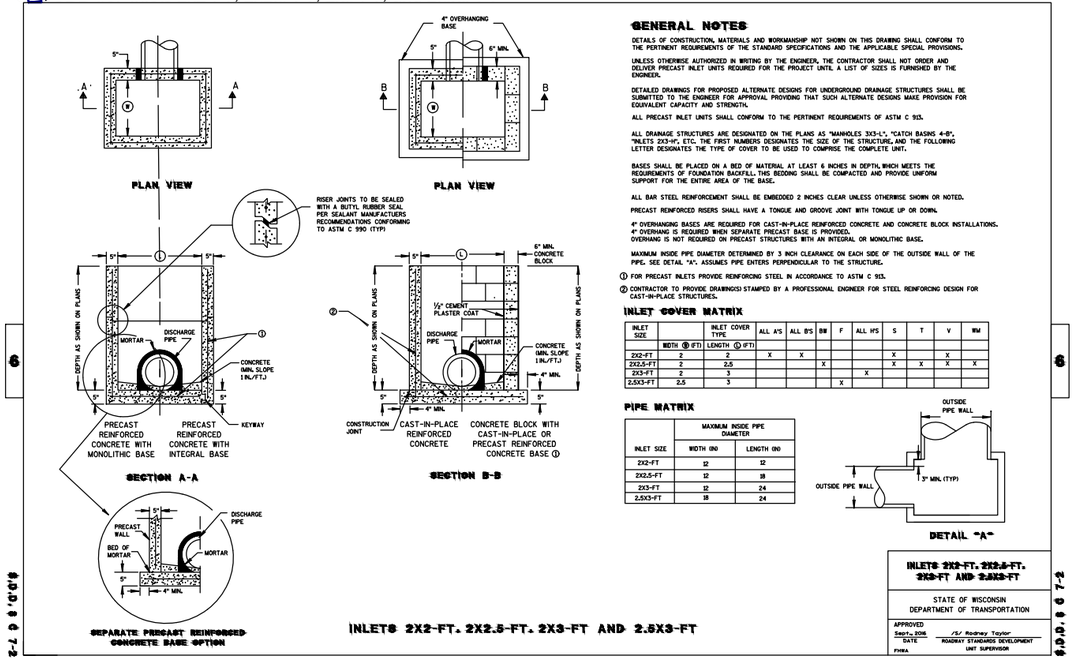
8A5 sheet d: Inlet Covers Type BW; Manhole Covers Type J, J-S, K, L & M



SDD 08B09 Manholes, 3-FT, 4-FT, 5-FT, 6-FT, 7-FT, 8-FT, 9-FT and 10-FT



SDD 8c7 Inlets 2x2-FT, 2x2.5-FT, 2x3-FT, and 2.5x3-FT



FEHR GRAHAM
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REVISIONS

REV. NO.	DESCRIPTION	DATE

DRAWING:
DETAILS

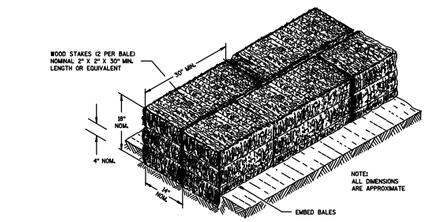
SET TYPE: REVIEW SET
G:\C3D\22\22-821\Plans\22-821 PLANS.dwg, DETAILS (2)

JOB NUMBER:
22-821

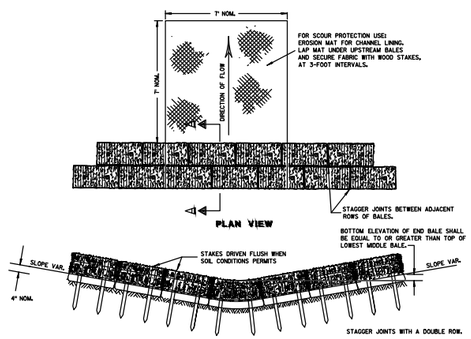
SHEET NUMBER:
11 of 12

PLOT DATE: 2/17/23

8E8: Typical Installations of Erosion Bales/Temporary Ditch Checks



SECTION A-A



PLAN VIEW

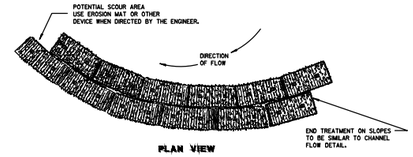
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES ①

GENERAL NOTES

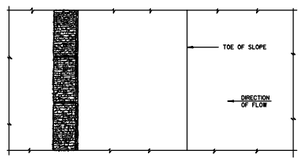
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

① TEMPORARY DITCH CHECKS EITHER EROSION BALES OR MANUFACTURED SHALL BE PAID FOR UNDER THE BID ITEM OF TEMPORARY DITCH CHECK. THE DEPARTMENT WILL NOT PAY FOR TEMPORARY DITCH CHECKS CONSTRUCTED OF A SINGLE ROW OF EROSION BALES.

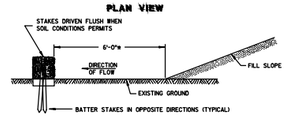


PLAN VIEW

WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

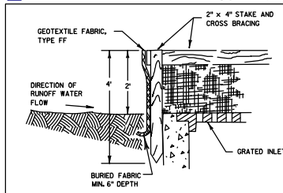
TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS

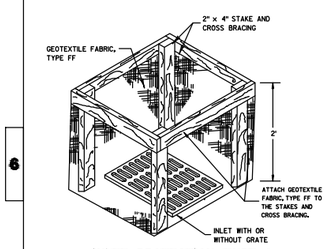
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED 6/04/02 — /S/ Beth Cormastro
DATE — CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

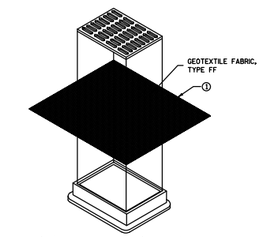
S.D.D. 8 E 8-9

8E10: Inlet Protection Type A, B, C and D



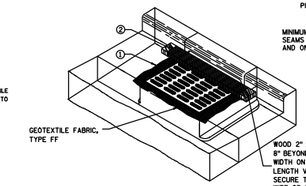


INLET PROTECTION, TYPE A

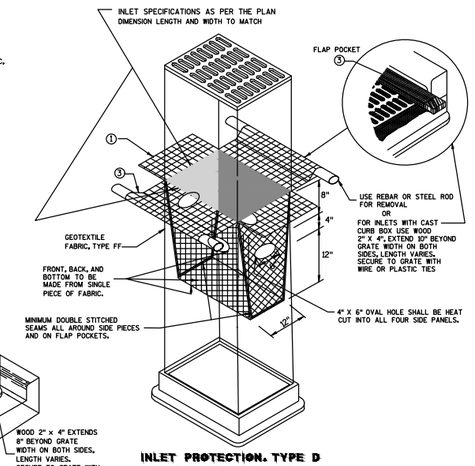


INLET PROTECTION, TYPE B (WITHOUT CURB BOX)

(CAN BE INSTALLED IN ANY INLET WITHOUT A CURB BOX)



INLET PROTECTION, TYPE C (WITH CURB BOX)



INLET PROTECTION, TYPE D

(CAN BE INSTALLED IN ANY INLET TYPE WITH OR WITHOUT A CURB BOX AS PER NOTE ②)

GENERAL NOTES

INLET PROTECTION DEVICES SHALL BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER.

MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.

WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

① FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.

② FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.

③ FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.

INSTALLATION NOTES

TYPE B & C

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

TYPE D

DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3", WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.

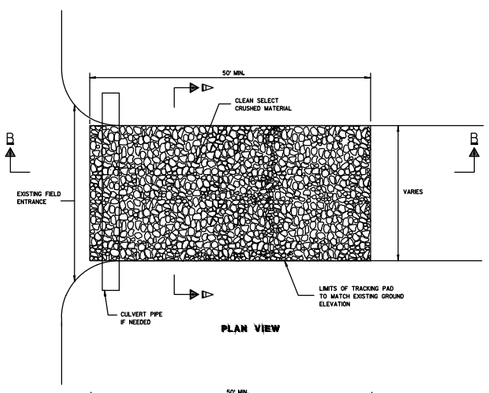
INLET PROTECTION TYPE A, B, C, AND D

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

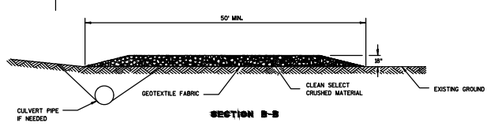
APPROVED 10-16-02 — /S/ Beth Cormastro
DATE — CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

S.D.D. 8 E 10-2

8E14: Tracking Pad



PLAN VIEW



SECTION B-B

TRACKING PAD

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

TRACKING PAD SHALL BE INSPECTED DAILY. DEFICIENT AREAS SHALL BE REPAIRED OR REPLACED IMMEDIATELY.

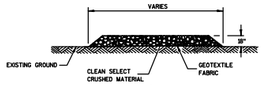
TRACKING PAD TO BE REMOVED AFTER CONSTRUCTION IS COMPLETED.

TRACKING PAD SHALL BE THE FULL WIDTH OF THE EGRESS POINT.

SURFACE WATER MUST BE PREVENTED FROM PASSING THROUGH THE TRACKING PAD. FLOWS SHALL BE DIVERTED AWAY, AROUND OR CONVEYED UNDER THE TRACKING PAD.

CULVERT PIPE OR OTHER BMP USED TO DIVERT WATER AWAY, AROUND OR UNDER THE TRACKING PAD SHALL BE DESIGNED TO CONVEY THE 2 YEAR - 24 HOUR EVENT.

THE COST OF ADDITIONAL BMP TO DIVERT WATER ARE INCIDENTAL TO THE TRACKING PAD BID ITEM.



SECTION A-A

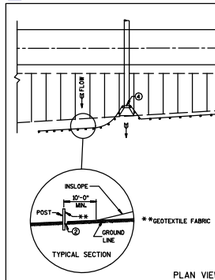
TRACKING PAD

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED 3-24-2011 — /S/ Jerry H. Zogg
DATE — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

S.D.D. 8 E 14-1

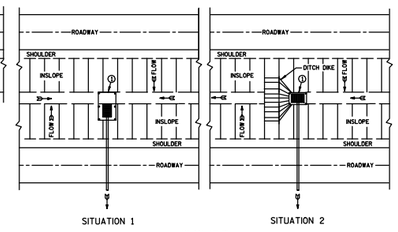
8E9: Silt Fence



TYPICAL SECTION

PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE



PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS

GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

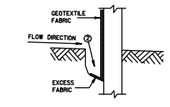
① HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.

② FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.

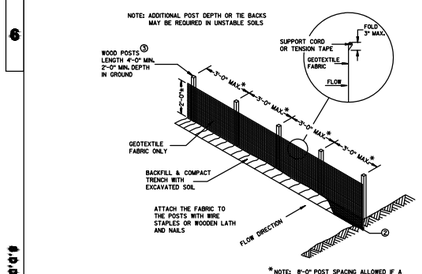
③ WOOD POSTS SHALL BE A MINIMUM SIZE OF 5½" X 5½" OF OAK OR HICKORY.

④ SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.

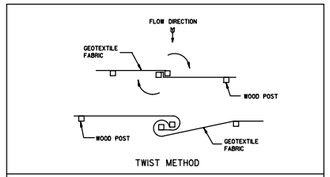
⑤ CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS: A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.



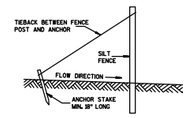
TRENCH DETAIL



SILT FENCE



JOINING TWO LENGTHS OF SILT FENCE ⑤



SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)

SILT FENCE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED 4-29-05 — /S/ Beth Cormastro
DATE — CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

S.D.D. 8 E 9-1

FEHR GRAHAM
ENGINEERING & ENVIRONMENTAL

ILLINOIS
IOWA
WISCONSIN

OWNER/DEVELOPER:
NEW GLARUS BREWING CO.
2400 WISCONSIN 69
NEW GLARUS, WI 53574

PROJECT AND LOCATION:
NEW GLARUS BREWING CO.
WAREHOUSE ADDITION
NEW GLARUS, WI

DRAWN BY: K.K.
APPROVED BY: J.D.
DATE: 02/17/23
SCALE: AS NOTED

REVISIONS

REV. NO.	DESCRIPTION	DATE

DRAWING: DETAILS

SET TYPE: REVIEW SET

G:\C3D\22\22-821\Plans\22-821 PLANS.dwg, DETAILS (3)

JOB NUMBER: 22-821

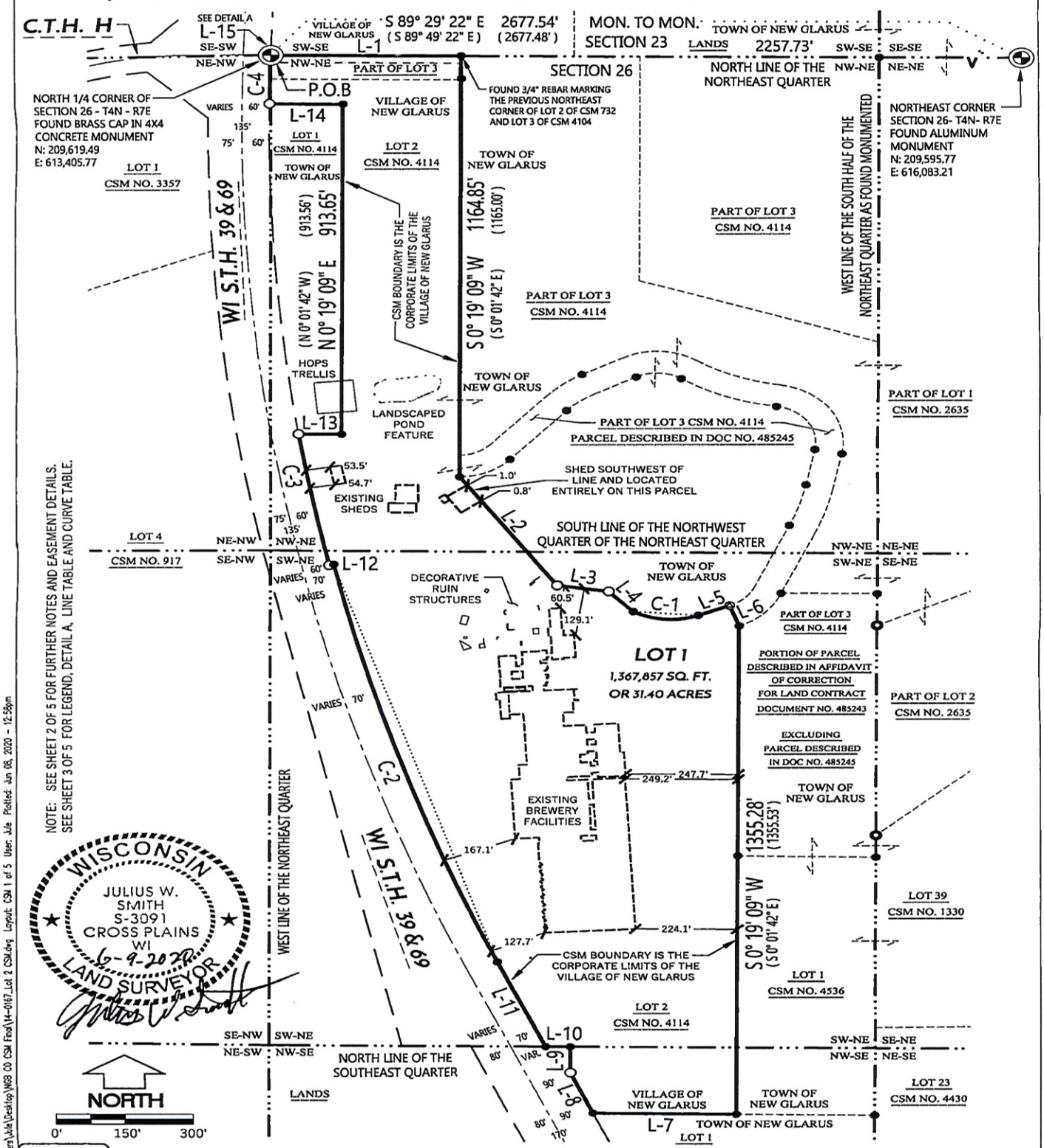
SHEET NUMBER: 12 of 12

PLOT DATE: 2/17/23

b00373

CERTIFIED SURVEY MAP NO. 5337

ALL OF LOT 2 AND A PART OF LOT 3 CERTIFIED SURVEY MAP NO. 4114 RECORDED IN VOLUME 16, PAGES 157-158 OF GREEN COUNTY CERTIFIED SURVEYS, ON FEBRUARY 23RD, 2006, AS DOCUMENT NO. 482084, BEING A PART OF THE NORTHWEST QUARTER OF THE NORTHEAST QUARTER, THE SOUTHWEST QUARTER OF THE NORTHEAST QUARTER, THE NORTHEAST QUARTER OF THE NORTHWEST QUARTER, AND THE NORTHWEST QUARTER OF THE SOUTHEAST QUARTER OF SECTION 26, TOWN 4 NORTH, RANGE 7 EAST, ALL LOCATED IN THE VILLAGE OF NEW GLARUS, GREEN COUNTY, WISCONSIN.



NOTE: SEE SHEET 2 OF 5 FOR FURTHER NOTES AND EASEMENT DETAILS.
SEE SHEET 3 OF 5 FOR LEGEND, DETAIL A, LINE TABLE AND CURVE TABLE.

File: C:\Users\Julie\Desktop\WGB CO CSM Final\14-0167_Lot 2 CSM.dwg Layout: CSM 1 of 5 User: Julie Plotted: Jun 08, 2020 - 12:58pm

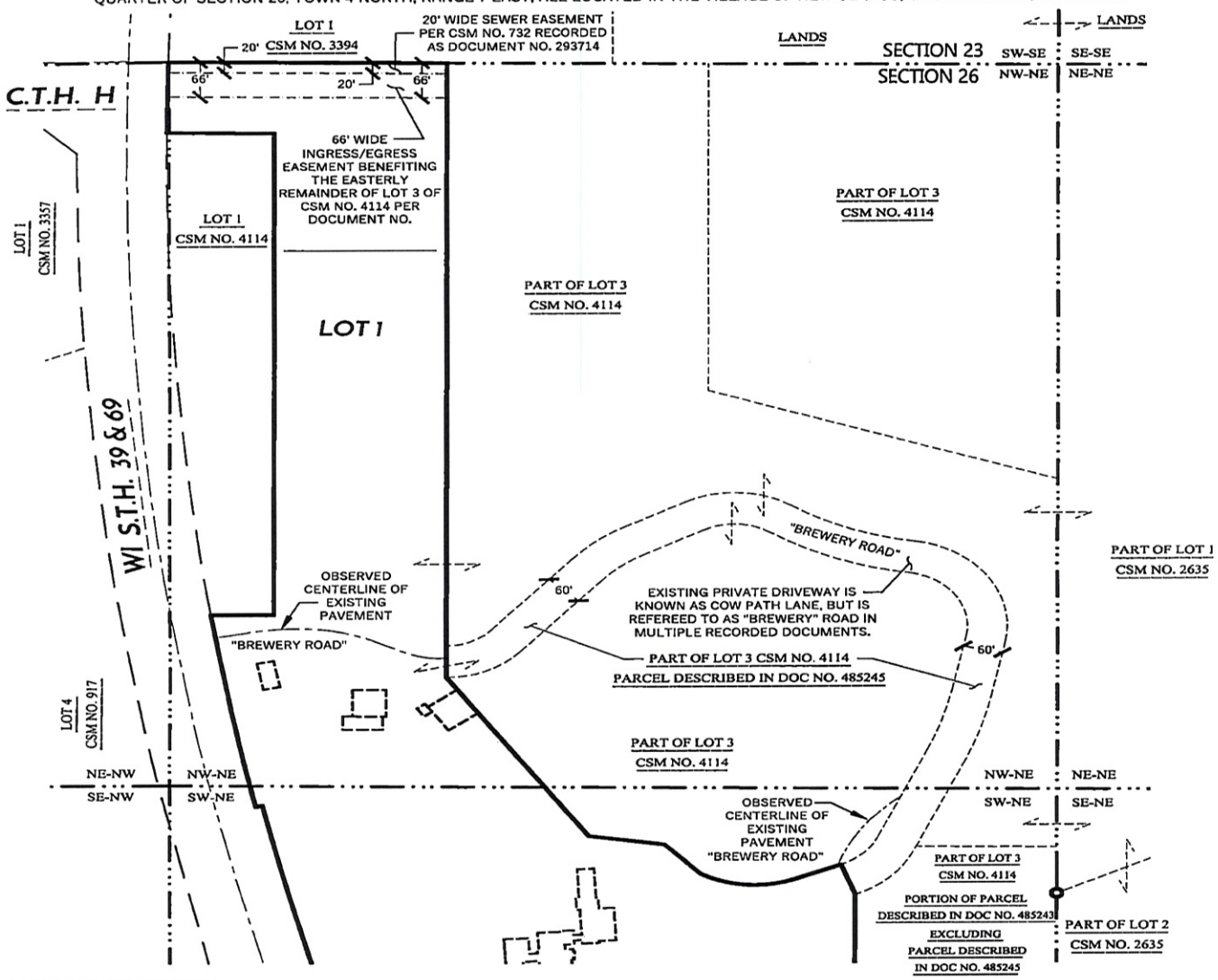
WYSER	PREPARED BY: 312 EAST MAIN STREET MOUNT HOREB, WI 53572 www.wyserengineering.com	PREPARED FOR: NEW GLARUS BREWING CO. 2400 STATE HWY 69 NEW GLARUS, WI 53574	SURVEYED BY: ZMR/MAL DRAWN BY: JWS APPROVED BY: JWS	PROJECT NO: 14-0167 SHEET NO: 1 of 5

VOL. _____ PAGE _____
DOC. NO. _____
C.S.M. NO. _____

VOL. 26 PAGE 44

CERTIFIED SURVEY MAP NO. 5331

ALL OF LOT 2 AND A PART OF LOT 3 CERTIFIED SURVEY MAP NO. 4114 RECORDED IN VOLUME 16, PAGES 157-158 OF GREEN COUNTY CERTIFIED SURVEYS, ON FEBRUARY 23RD, 2006, AS DOCUMENT NO. 482084, BEING A PART OF THE NORTHWEST QUARTER OF THE NORTHEAST QUARTER, THE SOUTHWEST QUARTER OF THE NORTHEAST QUARTER, THE NORTHEAST QUARTER OF THE NORTHWEST QUARTER, AND THE NORTHWEST QUARTER OF THE SOUTHEAST QUARTER OF SECTION 26, TOWN 4 NORTH, RANGE 7 EAST, ALL LOCATED IN THE VILLAGE OF NEW GLARUS, GREEN COUNTY, WISCONSIN.



EASEMENT NOTES:

1. PER WARRANTY DEED RECORDED AS DOCUMENT NO. 482458, LOT 3 OF CSM 4114 RETAINED AN EASEMENT OVER LOT 2 OF CSM 4114 FOR INGRESS AND EGRESS AND A 30 FOOT WIDE EASEMENT FOR UTILITIES. THERE WAS NO SPECIFIC LANGUAGE FOR THE LOCATION OF EITHER EASEMENT, NOR SIZE GIVEN FOR THE INGRESS AND EGRESS PORTION.
2. PER WARRANTY DEED RECORDED AS DOCUMENT NO. 485245, THE LANDS AS DESCRIBED IN AFFIDAVIT OF CORRECTION TO LAND CONTRACT RECORDED AS DOCUMENT NO. 485243 RETAINED AN EASEMENT OVER LOT 2 OF CSM 4114 FOR INGRESS AND EGRESS AND FOR UTILITIES. THERE WAS NO SPECIFIC LANGUAGE FOR THE LOCATION OF EITHER EASEMENT, NOR SIZE GIVEN.

NOTES:

1. FIELD WORK PERFORMED BY WYSER ENGINEERING, LLC. ON THE WEEKS OF DECEMBER 26TH, 2019 AND APRIL 13TH 2020.
2. NORTH REFERENCE FOR THIS CERTIFIED SURVEY AND MAP ARE BASED ON THE WISCONSIN COORDINATE REFERENCE SYSTEM, WISCRS GREEN, NAD 83 (2011). GRID NORTH. THE NORTH LINE OF THE NORTHEAST QUARTER OF SECTION 26, T4N, R7E, BEARS S 89°29' 32" E
3. THIS PARCEL IS SUBJECT TO ALL EASEMENTS AND AGREEMENTS, BOTH RECORDED AND UNRECORDED.
4. SEE SHEETS 3 OF 5 FOR DETAIL A, LEGEND, LINE TABLES AND CURVE TABLES.

NORTH

0' 125' 250'

WISCONSIN
JULIUS W. SMITH
S-3091
CROSS PLAINS WI
6-9-2020
LAND SURVEYOR

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DOC. NO. _____
C.S.M. NO. _____

WYSER	PREPARED BY: 312 EAST MAIN STREET MOUNT HOREB, WI 53572 www.wyserengineering.com	PREPARED FOR: NEW GLARUS BREWING CO. 2400 STATE HWY 69 NEW GLARUS, WI 53574	SURVEYED BY: ZMR/MAL DRAWN BY: JWS APPROVED BY: JWS	PROJECT NO: 14-0167 SHEET NO: 2 of 5

File: C:\Users\Julie\Desktop\NGB CO CSM Final\14-0167_Lot 2 CSM.dwg Layout: CSM 2 of 5 User: Julie Plotted: Jun 08, 2020 - 12:59pm

CERTIFIED SURVEY MAP NO. 5337

ALL OF LOT 2 AND A PART OF LOT 3 CERTIFIED SURVEY MAP NO. 4114 RECORDED IN VOLUME 16, PAGES 157-158 OF GREEN COUNTY CERTIFIED SURVEYS, ON FEBRUARY 23RD, 2006, AS DOCUMENT NO. 482084, BEING A PART OF THE NORTHWEST QUARTER OF THE NORTHEAST QUARTER, THE SOUTHWEST QUARTER OF THE NORTHEAST QUARTER, THE NORTHEAST QUARTER OF THE NORTHWEST QUARTER, AND THE NORTHWEST QUARTER OF THE SOUTHEAST QUARTER OF SECTION 26, TOWN 4 NORTH, RANGE 7 EAST, ALL LOCATED IN THE VILLAGE OF NEW GLARUS, GREEN COUNTY, WISCONSIN.

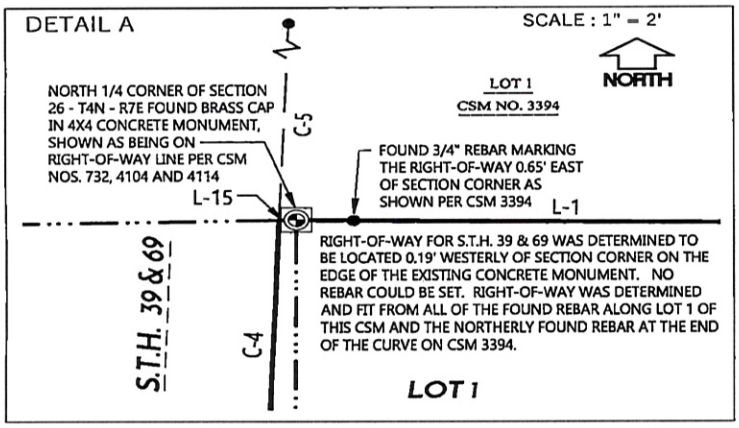
LEGEND

- SECTION CORNER FOUND
- 3/4" REBAR FOUND
- 1" IRON PIPE FOUND
- 3/4" REBAR SET 2.55 LB/FT
- MAG NAIL SET
- CSM BOUNDARY
- RIGHT-OF-WAY LINE
- CENTERLINE
- SECTION/QUARTER LINE
- EXISTING EASEMENT
- ( ) RECORDED INFORMATION

WISCONSIN
JULIUS W. SMITH
S-3091
CROSS PLAINS
WI
6-9-2020
LAND SURVEYOR

LINE TABLE		
LINE #	BEARING	DISTANCE
L-1	S 89° 29' 32" E	419.81'
(*)	(S 89° 49' 22" E)	(420.00')
L-2	S 35° 22' 20" E	369.50'
(***)	(S 35° 44' 00" E)	(369.38')
L-3	S 81° 45' 38" E	114.68'
(***)	(S 82° 06' 29" E)	(114.28')
L-4	N 44° 12' 20" W	77.66'
(***)	(N 44° 31' 46" W)	(77.61')
L-5	S 69° 05' 53" W	73.66'
(***)	(S 68° 47' 26" W)	(73.72')
L-6	N 20° 52' 44" W	60.00'
(***)	(N 21° 12' 34" W)	(60.00')
L-7	N 89° 18' 46" W	315.31'
(***)	(N 89° 35' 47" W)	(315.59')
L-8	N 24° 00' 57" W	121.61'
(***)	(N 24° 20' 47" W)	(121.41')
L-9	N 0° 17' 43" E	72.39'
(***)	(N 0° 02' 07" W)	(72.39')
L-10	N 89° 37' 52" W	54.68'
(***)	(N 89° 57' 31" W)	(54.68')
L-11	N 24° 00' 57" W	259.22'
(***)	(N 24° 20' 47" W)	(259.55')
L-12	S 77° 44' 30" W	10.00'
(***)	(S 77° 24' 15" W)	(10.00')
L-13	S 89° 40' 51" E	94.93'
(***)	(S 89° 58' 18" E)	(94.93')
L-14	N 89° 29' 32" W	162.13'
(***)	(N 89° 49' 22" W)	(161.92')
L-15	N 89° 01' 27" E	0.19'

* PER CERTIFIED SURVEY MAP NO. 4104
*** PER CERTIFIED SURVEY MAP NO. 4114



CURVE TABLE							
CURVE #	CURVE LENGTH	RADIUS	DELTA	CHORD BEARING	CHORD LENGTH	TANGENT IN	TANGENT OUT
C1	147.96'	170.00'	49° 52' 03"	N85° 58' 05"W	143.33'	S 69° 05' 53" W	N 61° 02' 04" W
(***)	(147.82')	(170.00')	(49° 49' 08")	(N 86° 18' 00" W)	(143.20')		
C2	1161.41'	5659.65'	11° 45' 27"	N 18° 08' 14" W	1159.37'	N 24° 00' 57" W	N 12° 15' 30" W
(***)	(1160.72')	(5659.65')	(11° 45' 02")	(N 18° 28' 16" W)	(1158.68')	(N 24° 20' 47" W)	(N 12° 35' 45" W)
C3	369.73'	5669.65'	3° 44' 11"	N 10° 23' 25" W	369.66'	N 12° 15' 30" W	N 8° 31' 19" W
(***)	(370.09')	(5669.65')	(3° 44' 24")	(N 10° 43' 33" W)	(370.02')	(N 12° 35' 45" W)	
C4	134.94'	5669.65'	1° 21' 49"	N 1° 26' 00" E	134.94'	N 0° 45' 05" E	N 2° 06' 54" E
(*)	(135.02')	(5669.65')	(1° 21' 52")	(N 1° 05' 57" E)	135.01'		(N 1° 46' 53" E)
C5	514.25'	5669.65'	5° 11' 49"	N 4° 42' 49" E	514.08'	N 2° 06' 54" E	N 7° 18' 43" E
(**)	(514.18')	(5669.65')	(5° 11' 46")	(N 4° 44' 04" E)	(514.00')	(N 2° 08' 11" E)	(N 7° 19' 57" E)

* PER CERTIFIED SURVEY MAP NO. 4104
** PER CERTIFIED SURVEY MAP NO. 3394
*** PER CERTIFIED SURVEY MAP NO. 4114

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WYSER

PREPARED BY:
312 EAST MAIN STREET
MOUNT HOREB, WI 53572
www.wyserengineering.com

PREPARED FOR:
NEW GLARUS BREWING CO.
2400 STATE HWY 69
NEW GLARUS, WI 53574

SURVEYED BY: ZMR/MAL
DRAWN BY: JWS
APPROVED BY: JWS

PROJECT NO: 14-0167
SHEET NO: 3 of 5

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DOC. NO. _____
C.S.M. NO. _____

CERTIFIED SURVEY MAP NO. 5337

ALL OF LOT 2 AND A PART OF LOT 3 CERTIFIED SURVEY MAP NO. 4114 RECORDED IN VOLUME 16, PAGES 157-158 OF GREEN COUNTY CERTIFIED SURVEYS, ON FEBRUARY 23RD, 2006, AS DOCUMENT NO. 482084, BEING A PART OF THE NORTHWEST QUARTER OF THE NORTHEAST QUARTER, THE SOUTHWEST QUARTER OF THE NORTHEAST QUARTER, THE NORTHEAST QUARTER OF THE NORTHWEST QUARTER, AND THE NORTHWEST QUARTER OF THE SOUTHEAST QUARTER OF SECTION 26, TOWN 4 NORTH, RANGE 7 EAST, ALL LOCATED IN THE VILLAGE OF NEW GLARUS, GREEN COUNTY, WISCONSIN.

LEGAL DESCRIPTION

ALL OF LOT 2 AND A PART OF LOT 3 CERTIFIED SURVEY MAP NO. 4114 (CSM 4114) RECORDED IN VOLUME 16, PAGES 157-158 OF GREEN COUNTY CERTIFIED SURVEYS, ON FEBRUARY 23RD, 2006, AS DOCUMENT NO. 482084, BEING A PART OF THE NORTHWEST QUARTER OF THE NORTHEAST QUARTER, THE SOUTHWEST QUARTER OF THE NORTHEAST QUARTER, THE NORTHEAST QUARTER OF THE NORTHWEST QUARTER, AND THE NORTHWEST QUARTER OF THE SOUTHEAST QUARTER OF SECTION 26, TOWN 4 NORTH, RANGE 7 EAST, ALL LOCATED IN THE VILLAGE OF NEW GLARUS, GREEN COUNTY, WISCONSIN.

COMMENCING AT THE NORTH QUARTER CORNER OF SAID SECTION 26 ALSO BEING THE POINT OF BEGINNING;

THENCE SOUTH 89 DEGREES 29 MINUTES 32 SECONDS EAST ALONG THE NORTH LINE OF THE NORTHEAST QUARTER OF SAID SECTION 26, ALSO BEING THE NORTH LINE OF AFORESAID LOT 3 OF CSM 4114, A DISTANCE OF 419.81 FEET TO A NORTHERLY EXTENSION OF THE NORTHERLY MOST SEGMENT OF THE EASTERLY LINE OF AFORESAID LOT 2 OF CSM 4114; THENCE ALONG SAID NORTHERLY EXTENSION AND CONTINUING ALONG LOT 2 SOUTH 00 DEGREES 19 MINUTES 09 SECONDS WEST, 1164.85 FEET; THENCE CONTINUING ALONG SAID LOT 2 SOUTH 35 DEGREES 22 MINUTES 20 SECONDS EAST, 369.50 FEET; THENCE CONTINUING ALONG SAID LOT 2 SOUTH 81 DEGREES 45 MINUTES 38 SECONDS EAST, 114.68 FEET; THENCE CONTINUING ALONG SAID LOT 2 SOUTH 44 DEGREES 12 MINUTES 20 SECONDS WEST, 77.66 FEET TO A POINT OF CURVE; THENCE CONTINUING ALONG LOT 2 SOUTHEASTERLY 147.96 FEET ON THE ARC OF A CURVE TO THE LEFT, HAVING A RADIUS OF 170.00 FEET AND A LONG CHORD THAT BEARS SOUTH 85 DEGREES 58 MINUTES 05 SECONDS EAST FOR 143.33 FEET TO THE END OF LINE ALONG SAID LOT 2; THENCE CONTINUING ALONG SAID LOT 2 NORTH 69 DEGREES 05 MINUTES 53 SECONDS EAST, 73.66 FEET; THENCE CONTINUING ALONG SAID LOT 2 SOUTH 20 DEGREES 52 MINUTES 44 SECONDS EAST, 60.00 FEET; THENCE CONTINUING ALONG SAID LOT 2 SOUTH 00 DEGREES 19 MINUTES 09 SECONDS WEST, 1355.28 FEET TO THE SOUTHEASTERLY MOST CORNER OF SAID LOT 2 BEING A POINT ON THE NORTH LINE OF CERTIFIED SURVEY MAP NO. 346 (CSM 346) RECORDED IN VOLUME 1, PAGE 357 OF GREEN COUNTY CERTIFIED SURVEYS, ON APRIL 27TH, 1978, AS DOCUMENT NO. 266883; THENCE ALONG THE NORTH LINE OF SAID CSM 346 NORTH 89 DEGREES 18 MINUTES 46 SECONDS WEST, 315.31 FEET TO THE EASTERLY RIGHT-OF-WAY OF WISCONSIN STATE TRUNK HIGHWAY 39 AND 69 (STH 69); THENCE ALONG SAID EASTERLY RIGHT-OF-WAY OF STH 69 NORTH 24 DEGREES 00 MINUTES 57 SECONDS WEST, 121.41 FEET; THENCE CONTINUING ALONG SAID EASTERLY RIGHT-OF-WAY OF STH 69 NORTH 00 DEGREES 17 MINUTES 43 SECONDS EAST, 72.39 FEET; THENCE CONTINUING ALONG SAID EASTERLY RIGHT-OF-WAY OF STH 69 NORTH 89 DEGREES 37 MINUTES 52 SECONDS WEST, 54.68 FEET; THENCE CONTINUING ALONG SAID EASTERLY RIGHT-OF-WAY OF STH 69 NORTH 24 DEGREES 00 MINUTES 57 SECONDS WEST, 259.22 FEET TO A POINT OF TANGENT CURVE; THENCE CONTINUING ALONG SAID RIGHT-OF-WAY OF STH 69 NORTHWESTERLY 1161.41 FEET ON THE ARC OF A CURVE TO THE RIGHT, HAVING A RADIUS OF 5659.65 FEET AND A LONG CHORD THAT BEARS NORTH 18 DEGREES 08 MINUTES 14 SECONDS WEST, FOR 1159.37 FEET TO A NON-TANGENT LINE; THENCE CONTINUING ALONG SAID EASTERLY RIGHT-OF-WAY OF STH 69 SOUTH 77 DEGREES 44 MINUTES 30 SECONDS WEST, 10.00 FEET TO A POINT OF NON-TANGENT CURVE; THENCE CONTINUING ALONG SAID RIGHT-OF-WAY 369.73 FEET ON THE ARC OF A CURVE TO THE RIGHT, HAVING A RADIUS OF 5669.65 FEET AND A LONG CHORD THAT BEARS NORTH 10 DEGREES 23 MINUTES 25 SECONDS WEST, FOR 369.66 FEET TO THE NON-TANGENT SOUTH LINE OF LOT 1 OF AFORESAID CSM 4114; THENCE ALONG SAID SOUTH LINE OF LOT 1 SOUTH 89 DEGREES 40 MINUTES 51 SECONDS EAST, 94.93 FEET TO THE WEST LINE OF SAID LOT 1; THENCE ALONG SAID WEST LINE NORTH 00 DEGREES 19 MINUTES 09 SECONDS EAST, 913.65 FEET TO THE NORTH LINE OF SAID LOT 1; THENCE ALONG SAID NORTH LINE NORTH 89 DEGREES 29 MINUTES 32 SECONDS WEST 162.13 FEET TO A POINT ON THE EASTERLY SIDE OF THE CURVING RIGHT-OF-WAY OF SAID STH 69; THENCE NORTHEASTERLY ALONG SAID CURVING RIGHT-OF-WAY 134.94 FEET ON THE ARC OF A CURVE TO THE RIGHT, HAVING A RADIUS OF 5669.65 FEET AND A LONG CHORD THAT BEARS NORTH 01 DEGREES 26 MINUTES 00 SECONDS EAST, FOR 134.94 FEET TO A NON-TANGENT LINE BEING THE NORTH LINE NORTHWEST QUARTER OF AFORESAID SECTION 26; THENCE ALONG SAID NORTH LINE OF THE NORTHWEST QUARTER NORTH 89 DEGREES 01 MINUTES 27 SECONDS EAST 0.19' BACK TO THE POINT OF BEGINNING.

SAID PARCEL CONTAINS 1,367,857 SQUARE FEET OR 31.40 ACRES MORE OR LESS

VOL. 26 PAGE 47

SURVEYOR'S CERTIFICATE

I, JULIUS W. SMITH, WISCONSIN PROFESSIONAL LAND SURVEYOR S-3091, DO HEREBY CERTIFY THAT BY DIRECTION OF NEW GLARUS BREWING COMPANY, I HAVE SURVEYED, DIVIDED, AND MAPPED THE LANDS DESCRIBED HEREON AND THAT THE MAP IS A CORRECT REPRESENTATION IN ACCORDANCE WITH THE INFORMATION PROVIDED. I FURTHER CERTIFY THAT THIS CERTIFIED SURVEY MAP IS IN FULL COMPLIANCE WITH CHAPTER 236.34 OF THE WISCONSIN STATUTES AND THE SUBDIVISION REGULATIONS OF THE VILLAGE OF NEW GLARUS AND GREEN COUNTY, WISCONSIN.

Julius W. Smith

JULIUS W. SMITH, S-3091
WISCONSIN PROFESSIONAL LAND SURVEYOR

6-9-2020
DATE

WISCONSIN
JULIUS W. SMITH
S-3091
CROSS PLAINS
WI
6-9-2020
LAND SURVEYOR

File: C:\Users\jake\Desktop\1623 00 CSM Final\14-0167_Lot 2 CSM.dwg Layout: CSM 4 of 5 User: Jake Plotted: Jun 08, 2020 - 1:00pm

WYSER

PREPARED BY:
312 EAST MAIN STREET
MOUNT HOREB, WI 53572
www.wyserengineering.com

PREPARED FOR:
NEW GLARUS BREWING CO.
2400 STATE HWY 69
NEW GLARUS, WI 53574

SURVEYED BY: ZMR/MAL
DRAWN BY: JWS
APPROVED BY: JWS

PROJECT NO: 14-0167
SHEET NO: 4 of 5

VOL. _____ PAGE _____
DOC. NO. _____
C.S.M. NO. _____

CERTIFIED SURVEY MAP NO. 5337

ALL OF LOT 2 AND A PART OF LOT 3 CERTIFIED SURVEY MAP NO. 4114 RECORDED IN VOLUME 16, PAGES 157-158 OF GREEN COUNTY CERTIFIED SURVEYS, ON FEBRUARY 23RD, 2006, AS DOCUMENT NO. 482084, BEING A PART OF THE NORTHWEST QUARTER OF THE NORTHEAST QUARTER, THE SOUTHWEST QUARTER OF THE NORTHEAST QUARTER, THE NORTHEAST QUARTER OF THE NORTHWEST QUARTER, AND THE NORTHWEST QUARTER OF THE SOUTHEAST QUARTER OF SECTION 26, TOWN 4 NORTH, RANGE 7 EAST, ALL LOCATED IN THE VILLAGE OF NEW GLARUS, GREEN COUNTY, WISCONSIN.

OWNER'S CERTIFICATE

NEW GLARUS BREWING COMPANY INC., A CORPORATION DULY ORGANIZED AND EXISTING UNDER AND BY VIRTUE OF THE LAWS OF THE STATE OF WISCONSIN AS OWNER, DOES HEREBY CERTIFY THAT WE CAUSED THE LANDS DESCRIBED HEREON TO BE SURVEYED, DIVIDED, MAPPED AND DEDICATED AS SHOWN. NEW GLARUS BREWING COMPANY INC. DOES ALSO CERTIFY THAT THIS CERTIFIED SURVEY MAP IS REQUIRED BY S. 236.34 TO BE SUBMITTED TO THE VILLAGE OF NEW GLARUS FOR APPROVAL.

IN WITNESS WHEREOF THE SAID NEW GLARUS BREWING COMPANY INC., HAS CAUSED THESE PRESENTS TO SIGNED BY

Drew Cochrane, ITS COO AND ITS CORPORATE SEAL TO HEREUNTO AFFIXED

BY: _____

STATE OF WISCONSIN) SS
~~DANE~~ Green COUNTY) SS
PERSONALLY CAME BEFORE ME THIS 23 DAY OF June, 2020,

THE ABOVE NAMED Drew Cochrane ~~FO~~R NEW GLARUS BREWING COMPANY INC.

_____, TO ME KNOWN TO BE THE PERSON WHO EXECUTED THE

FOREGOING INSTRUMENT,

AND TO ME KNOWN TO BE SUCH COO OF SAID CORPORATION, AND

ACKNOWLEDGED THAT THEY EXECUTED THE FORGOING INSTRUMENT AS SUCH OFFICER AS THE DEED OF SAID CORPORATION, BY ITS AUTHORITY

_____ NOTARY PUBLIC, STATE OF WISCONSIN

is permanent MY COMMISSION EXPIRES

NOTARY PUBLIC ALICIA M. AUGSBURGER STATE OF WISCONSIN

VILLAGE OF NEW GLARUS APPROVAL CERTIFICATE

APPROVED FOR RECORDING ON THIS 17th DAY OF March, 2020 BY THE VILLAGE OF NEW GLARUS

_____
CLERK - VILLAGE OF NEW GLARUS

WISCONSIN JULIUS W. SMITH S-3091 CROSS PLAINS WI 6-9-2020 LAND SURVEYOR

OFFICE OF THE REGISTER OF DEEDS

Green COUNTY, WISCONSIN

RECEIVED FOR RECORD June 24th,

2020 AT 9:27 O'CLOCK A M AS

DOCUMENT # 600373.

IN VOL. 26 OF CERTIFIED SURVEY

MAPS ON PAGE(S) 44-48.

Cynthia A. Mendt
REGISTER OF DEEDS

VOL. 26 PAGE 48

WYSER

PREPARED BY:	PREPARED FOR:	SURVEYED BY: ZMR/MAL	PROJECT NO: 14-0167
312 EAST MAIN STREET MOUNT HOREB, WI 53572 www.wyserengineering.com	NEW GLARUS BREWING CO. 2400 STATE HWY 69 NEW GLARUS, WI 53574	DRAWN BY: JWS APPROVED BY: JWS	SHEET NO: 5 of 5

File: C:\Users\Julie\Desktop\WGB 00 CSM Final\14-0167_Lot 2 CSM.dwg Layout: CSM 5 of 5 User: Julie Plotted: Jun 08, 2020 - 1:00pm

600373

FEHR GRAHAM
ENGINEERING & ENVIRONMENTAL

Memo

To: Village of New Glarus

From: Jesse Duff, P.E.

CC: Katherine May, New Glarus Brewing Co.

Date: 02/17/2023

Re: New Glarus Brewing Company Warehouse Addition

The New Glarus Brewing Company is proposing the construction of warehouse addition to support the function of the existing brewery facility. The proposed project will include the addition of approximately 28,550 square foot building with loading dock, and the construction of asphalt drives, storm sewer, and surrounding landscaping. The proposed improvements will replace an existing gravel parking lot and result in approximately 68,850 square feet of disturbance and approximately 24,400 square feet of pavement surface. The majority of the disturbance occurs within the existing paved parking and gravel lot. Proposed development plans can be found in **Exhibit A**. Construction is anticipated to begin April 2023 and be completed by December 2023.

Stormwater runoff generated by the new impervious surface will be conveyed through storm sewer and then overland to two existing wet detention ponds constructed as part of previous improvement projects. A storm water management report was completed by Delta 3 Engineering, Inc dated February 22, 2012, and amended by JSD Professional Services, Inc. dated May 31, 2012.

The intent of this memo is to update the stormwater management report to include all previous improvements and provide details on how these improvements associated with the warehouse expansion will be constructed in accordance with Chapter 260 of the Village of New Glarus ordinances and the Wisconsin Department of Natural Resources requirements.

Stormwater Management Measures

Storm water management for the site has been provided in two wet detention ponds which will provide the required 80% total suspended solids reduction and runoff rate reduction for the campus. A portion of the warehouse addition drains to both the Eastern Stormwater Retention Pond as part of Sub Area P1, and to the Northern Stormwater Retention Pond as part of Sub Area P2. The original watershed areas and associated HydroCAD model have been revised and updated to include previous development as well as the proposed improvements associated with this warehouse addition. The report utilizes pond volumes and outlet structures as established in the JSD Professional Services stormwater management

report. The updated watershed areas are shown in **Exhibit B**. The runoff results are summarized in **Table 1** and HydroCAD output is shown in **Exhibit C**.

Table 1: Existing versus proposed peak runoff rate for 24-hr rainfall events.	1-year	2-year	5-year	10-year	25-year	100-year
Rainfall for each 24-hour storm event (inches)	2.5	3	3.8	4.3	5	6.2
Allowable Pre-Development peak discharge rate (cfs) (Per Delta 3 Report)						
P1	2.41	7.22	18.45	26.96	40.24	65.71
P2	0.79	1.79	4.00	5.63	8.15	12.92
Total combined	**3.20**	**9.01**	**22.45**	**32.59**	**48.39**	**78.63**
Post-Development peak discharge rate (cfs) (JSD Report)						
P1	8.77	16.34	30.88	41.02	56.23	84.27
P2	6.57	9.13	13.47	16.26	20.22	27.11
Proposed Post-Development peak discharge rate (cfs)						
P1	8.77	16.34	30.88	41.02	56.23	84.27
P2	7.90	11.10	16.59	20.12	25.17	33.95
Post-Development release rate (cfs) with detention (JSD Report)						
P1	0.35	0.47	0.64	2.28	7.57	29.88
P2	0.14	0.52	2.62	4.04	5.45	8.75
Total combined	0.49	0.99	3.26	6.32	13.02	38.63
Proposed Post-Development release rate (cfs) with detention						
P1	0.35	0.47	0.64	2.26	7.56	29.59
P2	0.23	1.17	4.06	5.27	6.70	19.25
Total combined	**0.58**	**1.64**	**4.70**	**7.53**	**14.26**	**48.84**
Difference: Proposed Post-Development release rate with detention vs. Allowable Pre-Development peak discharge rate (cfs)						
P1	-2.06	-6.75	-17.81	-24.70	-32.68	-36.12
P2	-0.56	-0.62	0.06	-0.36	-1.45	6.33
Total combined	**-2.62**	**-7.37**	**-17.75**	**-25.06**	**-34.13**	**-29.79**

Storm water runoff from the site has been limited to below the allowable pre-development peak discharge rates as established in the Delta 3 Engineering stormwater report. Total suspended solids reduction is also provided within both the existing stormwater retention ponds. Based upon Stoke's Law of settling velocity and a required particle settling velocity of 1.91×10^{-5} fps (80% reduction), the maximum pond discharge rate during the 1-year storm event was established for each basin. The release rate for each respective pond is below these rates and therefore total suspended solids reduction is achieved within the existing ponds. Refer to the Detention Basin Trapping Efficiency worksheet within **Exhibit D**.

Erosion Control Measures

All perimeter erosion control measures will be installed prior to land disturbing activities, including silt fence and a construction entrance. Erosion control measures have been designed to prevent erosion and limit the soil loss rate to a maximum of 5.0 tons per acre annually. See **Exhibit E** for universal soil loss equations. All construction stormwater runoff will be directed towards and managed by the proposed erosion and sedimentation control measures as depicted on the Grading and Erosion Control Plan.

EXHIBIT A

SHEET NUMBER:
1

NEW GLARUS BREWING CO.
WAREHOUSE ADDITION

FOR

NEW GLARUS BREWING CO.
NEW GLARUS, WI

PROPOSED SITE PLANS

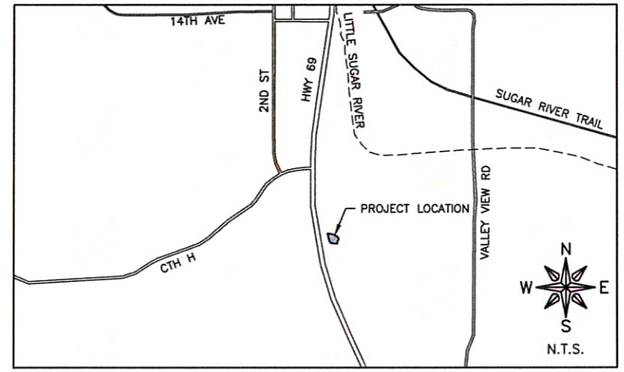
GREEN COUNTY
FEBRUARY 2023

INDEX OF SHEETS

UTILITIES

UTILITY TYPE	COMMON NAME
WATER & SEWER	NEW GLARUS UTILITIES
ELECTRIC	ALLIANT ENERGY
TELEPHONE	TDS TELECOM
GAS	WE ENERGIES
CABLE	CHARTER

(CONTRACTOR TO BE RESPONSIBLE FOR ANY ADJUSTMENTS TO BE MADE.)



LOCATION MAP

CONTOURS AND ELEVATIONS DEPICTED HEREON ARE BASED UPON THE NAVD88 DATUM.
HORIZONTAL DATUM IS BASED ON THE WISCONSIN COUNTY COORDINATE SYSTEM – GREEN COUNTY.

WISCONSIN
JESSE W. DUFF
43495-6
MONROE, WI
PROFESSIONAL ENGINEER

2/17/2023
SIGNATURE DATE

FEHR GRAHAM
ENGINEERING & ENVIRONMENTAL

ILLINOIS IOWA WISCONSIN

811 DIGGERS HOTLINE
Know what's below.
Call before you dig.
OR CALL (800) 242-8511

REVIEW SET

ORIGINAL SET FOR PROJECT: 22-821	DATE CREATED: 02/17/23

REVISIONS

REV. NO.	DESCRIPTION	DATE

G:\C3D\22\22-821\Plans\22-821 PLANS.dwg, TITLE
PLOT DATE: 2/17/23

ABBREVIATIONS

<	ANGLE
ABC	AGGREGATE BASE COURSE
AC	ACRE(S)
ACI	AMERICAN CONCRETE INSTITUTE
AGR	AGGREGATE
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
ALT	ALTERNATE
ARCH	ARCHITECT
ASPH	ASPHALT
ASTM	AMERICAN SOCIETY OF TESTING AND MATERIALS
B	BALL VALVE
BFP	BACKFLOW PREVENTER
BIT	BITUMINOUS
BLDG	BUILDING
BLK	BLOCKING
BM	BENCHMARK
BOT	BOTTOM
BSMT	BASEMENT
BV	BUTTERFLY VALVE
B-B	BACK-TO-BACK OF CURB DIMENSION
CL or ℄	CENTERLINE
C TO C	CENTER TO CENTER
C & G	CURB AND GUTTER
CF	CUBIC FEET
CHD	CHORD LENGTH
CI	CAST IRON PIPE
CHK	CHECK VALVE
CLR	CLEAR
CMP	CORRUGATED METAL PIPE
CMU	CONCRETE MASONRY UNIT
CTY	COUNTY
CONC	CONCRETE
CONT	CONTINUOUS
C-B	CENTERLINE TO BACK OF CURB DIMENSION
COORD	COORDINATE
CU	COPPER PIPING
CTRS	CENTERS
CY	CUBIC YARDS
CS	CORPORATION STOP
D	DEGREE OF CURVE
DEP	DEPRESSED
DET	DETAIL
DIAG	DIAGONAL
DIM	DIMENSION
DI	DUCTILE IRON PIPE
DN	DOWN
DNSTR	DOWNSTREAM
DP	DRAINAGE PIPE/STORM PIPE
DWG	DRAWING
E	EAST
EJ	EXPANSION JOINT
EL, ELEV	ELEVATION
EP	EDGE OF PAVEMENT
EQUIP	EQUIPMENT
EQUIV	EQUIVALENT
EW	EACH WAY
EXP	EXPANSION
EX, EXIST	EXISTING
EXT	EXTERIOR
E =	EXTERNAL DISTANCE
FD	FLOOR DRAIN
FDN	FOUNDATION
FE	FIELD ENTRANCE
FF	FINISH FLOOR
FIL	FILLET
FIN	FINISH
FL	FLOW LINE
FLR	FLOOR
FM	FORCE MAIN
FND	FOUND
FRMG	FRAMING
FTG	FOOTING
F-F	FACE TO FACE
GA	GAUGE
GI	GALVANIZED IRON PIPE
GRD	GRADE
GRS	GRATING SUPPORT
GRT	GROUT
GV	GAS VALVE
GYP	GYPSUM
HSE	HOUSE
HC	HORIZONTAL CURVE
HMA	HOT MIX ASPHALT
HNGR	HANGER
HORIZ	HORIZONTAL
H.P.	HIGH POINT
HW	HOT WATER
HWH	HOT WATER HEATER
Δ =	CENTRAL ANGLE
I	MOMENT OF INERTIA
ID	INSIDE DIAMETER
INT	INTERIOR
INV	INVERT ELEVATION; BASED ON BENCH MARK DATUM
IP	IRON PIPE
JST	JOIST
L	LENGTH OF CURVE
LAT	LATERAL
LAV	LAVATORY
LF	LINEAL FEET
L.P.	LOW POINT
LT	LEFT OF SURVEY BASE LINE
MAX	MAXIMUM
ME	MATCH EXISTING
MH	MANHOLE
MIN	MINIMUM
MJ	MECHANICAL JOINT
MTL	METAL
N	NORTH
No. OR #	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OO	OUTSIDE TO OUTSIDE
OPNG	OPENING
OPP	OPPOSITE
PC	POINT OF CURVATURE
PCC	PORTLAND CEMENT CONCRETE
PCF	POUNDS PER CUBIC FOOT
PDP	PERFORATED DRAIN PIPE
PE	POLYETHYLENE PIPE
PI	POINT OF INTERSECTION
PL	PLATE
PLG	PLUG VALVE
PLP	POLYPROPYLENE PIPE
PLYWD	PLYWOOD
PM	PRINCIPAL MERIDIAN
PR	PRESSURE REGULATORS
PRC	POINT OF REVERSE CURVATURE
PRESS	PRESSURE
PR, PROP	PROPOSED
PRV	PRESSURE REDUCING VALVE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSL	PIPE SLEEVE
PT	POINT OF TANGENCY
PLG	PLUG VALVE
PVC	POLYVINYL CHLORIDE (PLASTIC) PIPE
R	RADIUS
RDCR	REDUCER
RCCP	REINFORCED CONCRETE CYLINDER PIPE
RCP	REINFORCED CONCRETE PIPE
RD	ROOF DRAIN
REINF	REINFORCING
REQD	REQUIRED
ROW	RIGHT OF WAY
RFTR	RAFTER
RND	ROUND
RR	RAILROAD
RRSP	RAILROAD SPIKE
RT	RIGHT
R&R	REMOVE AND REPLACE
S	SOUTH
SB	STREAM BED
SCHED	SCHEDULE
SEC	SECTION
SF	SQUARE FEET
SHR	SHOWER
SHT	SHEET
SHTG	SHEATHING
SP	SANITARY PIPE
SPA	SPACING OR SPACES
SPEC	SPECIFICATION
SQ	SQUARE
SS	SANITARY SERVICE
STA	STATION
STD	STANDARD
STL	STEEL
STRUCT	STRUCTURAL
SW	SIDEWALK
SY	SQUARE YARDS
SYM	SYMMETRICAL
TAN	TANGENT LENGTH
TBC	TOP BACK OF CURB
TBM	TEMPORARY BENCH MARK; BASED ON BENCHMARK DATUM
TD	TILE DRAIN
THK	THICK
TR	TREAD
TY	TYPE
TYP	TYPICAL
U.O.N.	UNLESS OTHERWISE NOTED
UP	UTILITY POLE
UPSTR	UPSTREAM
UR	URINAL
USGS	US GEOLOGICAL SURVEY
VC	VERTICAL CURVE
VCP	VITRIFIED CLAY PIPE
VERT	VERTICAL
VOL	VOLUME
VPC	VERTICAL POINT OF CURVATURE
VPI	VERTICAL POINT OF INTERSECTION
VPRC	VERTICAL POINT OF REVERSE CURVATURE
VPT	VERTICAL POINT OF TANGENCY
W	WEST
WC	WATER CLOSET
WF	WIDE FLANGE
WM	WATER MAIN
WMQ	WATER MAIN QUALITY
WV	WATER VALVE
WGT	WEIGHT
WP	WEATHER PROOF
WS	WATER SERVICE
WWF	WELDED WIRE FABRIC
W/	WITH
W/O	WITHOUT
XP	EXPLOSION PROOF

HATCH PATTERNS

EARTH – FILL	BRICK
EARTH – UNDISTURBED	STEEL
ROCK (GEOLOGICAL)	INSULATION (LOOSE/ BATT)
STONE OR RIP RAP	INSULATION (RIGID)
GRAVEL	WOOD (ROUGH)
CONCRETE	WOOD (BLOCKING)
CONCRETE BLOCK	WOOD (FINISH)
CMU	DETECTABLE WARNING
ASPHALT PAVEMENT	

SYMBOLS

CIVIL

EXISTING		PROPOSED
EXISTING R.O.W.	RIGHT-OF-WAY LINE	PROPOSED R.O.W.
	PROPERTY LINE	
	CENTERLINE	
	SETBACK LINE	
	EASEMENT LINE	
	SECTION LINE	
S 4 S 9	SECTION CORNER	
N 1000.00 E 1000.00	COORDINATE POINT ON GRID SYSTEM	
FND	FOUND OR SET PROPERTY PIN	SET
X	RIGHT-OF-WAY MARKER	X
	BENCHMARK	
600	CONTOUR LINE	600
000.00 FG	SPOT ELEVATION (AT •)	000.00 FG
X	FENCE LINE	X
	SILT FENCE LINE	
	CURB AND GUTTER	
	TIP OUT CURB AND GUTTER	
	SAWCUT, LIMITS OF PAVEMENT REMOVAL & REPLACEMENT	
X"	DECIDUOUS TREE W/ SIZE	X"
X"	CONIFEROUS TREE W/ SIZE	X"
X"	TREE STUMP	
	HEDGEROW	
	BUSH OR SHRUB	
	TREE LINE	
CL	CONSTRUCTION LIMIT LINE	CL
	SIGN (MULTIPLE POST, SINGLE POST, STREET SIGN)	
	SIGN (PYLON)	
	GUARD RAIL	
	RAILROAD TRACKS	
	BUILDING	
	MAILBOX	
	FLAGPOLE	
	BOLLARD	
AC	AIR CONDITIONER	AC

MISC

EXISTING		PROPOSED
S.B. #XX	SOIL BORING LOCATION AND NUMBER	S.B. #XX
MW #XX	MONITORING WELL	MW #XX
	REVISION NUMBER	1
	OUTLINE OF DETAILED AREA	
	SECTION NUMBER / SHEET WHERE SHOWN	A / S-1

SANITARY SEWER

EXISTING		PROPOSED
SAN >	SANITARY SEWER	SAN >
SSV>	SANITARY SEWER SERVICE	SSV>
<FM	SANITARY SEWER FORCE MAIN	<FM
	SANITARY CLEANOUT	CO
S	SANITARY MANHOLE	
	WYE FITTING	

WATER

EXISTING		PROPOSED
WSV	WATER SERVICE	WSV
W	WATER PIPE	W
	FIRE HYDRANT	
	YARD HYDRANT	
	WATER VALVE WITH BOX	
	CURB STOP W/CURB BOX	
	REDUCER	
W	WATER VALVE VAULT	W
	11.25° BEND	
	22.50° BEND	
	45° BEND	
	90° BEND	
	TEE	
	CAP	
M	WATER METER	M
	SPRINKLER HEAD	
	TRACER WIRE BOX	

STORM SEWER

EXISTING		PROPOSED
ST>	STORM SEWER	ST>
DT>	DRAIN TILE	DT>
	DITCH LINE (PAVED)	
	DITCH LINE (UNPAVED)	
D	STORM MANHOLE	
	CATCH BASIN	
	STORM SEWER INLET	
	STORM SEWER INLET – BEHIND CURB	
	DOWNSPOUT	
X" TYPE	CULVERT AND SIZE	X" TYPE
	RCCP OR RCP EQRS (RCAP) END SECTION	
	METAL OR HDPE END SECTION	
	FLOW DIRECTION	

EROSION CONTROL

EXISTING		PROPOSED
	EROSION CONTROL BLANKET	
	TEMPORARY AND PERMANENT SEEDING AREA	
	UNDISTURBED AREA	
	STABILIZED CONSTRUCTION ENTRANCE	
	SILT FENCE	
	INLET PROTECTION	
	TEMPORARY SEDIMENT TRAP	
	CULVERT INLET PROTECTION	
	ROCK OUTLET PROTECTION	
	ROCK CHECK DAM – COURSE AGGREGATE	
	ROCK CHECK DAM – RIP RAP	
	DITCH CHECK	

UTILITY

EXISTING		PROPOSED
FO	FIBER OPTIC LINE	FO
TV	UNDERGROUND TV CABLE	TV
C	CABLE TV RISER PEDESTAL	C
OU	OVERHEAD UTILITY	OU
UE	UNDERGROUND ELECTRIC	UE
E	ELECTRIC RISER PEDESTAL	E
E	ELECTRIC MANHOLE	E
T	UNDERGROUND TELEPHONE	T
T	TELEPHONE RISER PEDESTAL	T
T	TELEPHONE MANHOLE	T
	UTILITY POLE	
	UTILITY POLE W/ METER	
	UTILITY POLE W/ TRANSFORMER	
	UTILITY POLE W/ LIGHT	
	UTILITY POLE WITH GUY WIRE AND ANCHOR	
	LIGHT (MAST MOUNTED)	
	LIGHT POLE (SINGLE FIXTURE)	
	YARD LIGHT	
G	GAS MAIN	G
M	GAS METER	M
	GAS VALVE	
G	GAS STRUCTURE	G
ET	TRANSFORMER	
GEN	GENERATOR	

TRAFFIC RELATED

EXISTING		PROPOSED
	CONTROLLER	
	MAST ARM ASSEMBLY AND POLE	
	SIGNAL HEAD AND POST	
	SIGNAL HEAD	
	PEDESTRIAN HEAD	
	PEDESTRIAN PUSH-BUTTON	
	HAND HOLE	
	DOUBLE HAND HOLE	
	HAND HOLE OR JUNCTION BOX	
	HEAVY-DUTY HAND HOLE	
(5' - 2")	EXISTING CONDUIT (LENGTH AND SIZE) PROP GALVANIZED STEEL OR PVC CONDUIT UPPER NUMERAL INDICATES LENGTH "T" INDICATES CONDUIT IN TRENCH "P" INDICATED CONDUIT PUSHED LOWER NUMERAL INDICATES SIZE AND TYPE	5' - T 2" GS-PVC
	LUMINAIRE	
	ARROW – THROUGH, TURN LEFT	
	ARROW – THROUGH	
	ARROW – TURN LEFT	
	ARROW – TURN RIGHT	
ONLY	ONE DIRECTION TURN ONLY	ONLY
	HANDICAPPED PARKING STALL	
	TRAFFIC DETECTOR LOOP	
	TRAFFIC CONTROL BOX	

FEHR GRAHAM
ENGINEERING & ENVIRONMENTAL

ILLINOIS
IOWA
WISCONSIN

OWNER/DEVELOPER:
NEW GLARUS BREWING CO.
2400 WISCONSIN 69
NEW GLARUS, WI 53574

PROJECT AND LOCATION:
NEW GLARUS BREWING CO.
WAREHOUSE ADDITION
NEW GLARUS, WI

DRAWN BY: K.K.
APPROVED BY: J.D.
DATE: 02/17/23
SCALE: AS NOTED

REVISIONS

REV. NO.	DESCRIPTION	DATE

DRAWING:
STANDARD LEGEND

SET TYPE: REVIEW SET
G:\C3D\22\22-821\Plans\22-821 PLANS.dwg, LEGEND

JOB NUMBER:
22-821

SHEET NUMBER:
2 of 12

PLOT DATE: 2/17/23

GENERAL NOTES

1. THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE MUNICIPAL CODE, VILLAGE OF NEW GLARUS, WISCONSIN, CURRENT EDITION, THE WISCONSIN DEPARTMENT OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION, CURRENT EDITION, SPECIAL PROVISIONS AND THE "STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN", CURRENT EDITION. SIGN CONSTRUCTION AND PAVEMENT MARKINGS SHALL CONFORM TO THE REQUIREMENTS OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", CURRENT EDITION.

2. IN THESE CONTRACT DOCUMENTS MENTION IS MADE OF THE "ENGINEER", WHICH SHALL MEAN FEHR GRAHAM OR THEIR DULY AUTHORIZED AGENT. IN THESE CONTRACT DOCUMENTS MENTION IS MADE OF THE "OWNER", WHICH SHALL MEAN NEW GLARUS BREWING COMPANY, OR THEIR DULY AWARDED AGENT.

3. AS PART OF THE BIDDING PROCEDURE, THE CONTRACTOR SHALL VERIFY THAT THE QUANTITIES FOR PAY ITEMS, AS PRESENTED IN THESE PLAN DOCUMENTS, ARE SUBSTANTIALLY CORRECT. IF DISCREPANCIES ARE DETECTED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF THE DISCREPANCY PRIOR TO THE BID DATE.

4. QUANTITIES SHOWN ARE ESTIMATES FOR INFORMATION ONLY. PAYMENT WILL BE BASED ON ACTUAL QUANTITIES MEASURED IN THE FIELD OR ON PAYMENT LIMIT DETAILS.

5. THE CONTRACTOR SHALL BE PAID FOR MATERIALS AND EQUIPMENT SUCCESSFULLY INSTALLED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS AS MEASURED OR VERIFIED IN PLACE BY THE ENGINEER OR HIS AGENT.

6. IN CASE OF CONFLICT BETWEEN THE ABOVE MENTIONED SPECIFICATIONS, THE ENGINEER SHALL DETERMINE WHICH OF THE SPECIFICATIONS SHALL GOVERN. THE ENGINEER'S DECISION SHALL BE FINAL AND NO ADDITIONAL COMPENSATION SHALL BE AWARDED UNLESS APPROVED BY THE ENGINEER.

7. THE PROPOSED IMPROVEMENTS MUST BE CONSTRUCTED IN ACCORDANCE WITH THE ENGINEERING PLANS AS APPROVED BY THE OWNER. IMPROVEMENT REPRESENTATIONS AS SHOWN ON THESE PLANS ARE AS ACCURATE AS POSSIBLE FROM THE INFORMATION AVAILABLE. HOWEVER, SOME FIELD REVISIONS MAY BE REQUIRED TO ACCOMMODATE UNFORESEEN CIRCUMSTANCES – THE ENGINEER SHALL BE ADVISED OF ANY NECESSARY REVISIONS WITH SUFFICIENT LEAD TIME ALLOWED TO PROPERLY CONSIDER AND ACT UPON SAID REQUESTS. PROPER CONSTRUCTION TECHNIQUES MUST BE FOLLOWED IN CONSTRUCTING THOSE IMPROVEMENTS AS DETAILED IN THIS ENGINEERING PLAN.

8. THE ENGINEER SHALL HAVE THE AUTHORITY TO INSPECT, APPROVE OR REJECT THE WORKMANSHIP AND/OR MATERIALS WHICH GO TO MAKE UP IMPROVEMENTS AS DETAILED IN THESE PLANS AND SPECIFICATIONS.

9. GENERAL SAFETY PROVISION: TO PROVIDE DRIVERS WITH SAFE TRAVEL CONDITIONS DURING THE CONSTRUCTION PROJECT, AND TO PROVIDE SAFE WORKING CONDITIONS FOR ALL EMPLOYEES, THE RULES, REGULATIONS, AND CONDITIONS STATED BELOW WILL PREVAIL FOR THE DURATION OF THIS CONTRACT. ANY EMPLOYEE OF THE CONTRACTOR OR HIS SUBCONTRACTORS WHO REFUSES TO COMPLY WITH THESE GENERAL SAFETY PROVISIONS SHALL BE REMOVED FROM THE JOB SITE IN ACCORDANCE WITH STATE AND LOCAL REQUIREMENTS. THE CONTRACTOR AND ANY SUBCONTRACTORS RETAINED BY HIM SHALL COMPLY WITH THE STATE AND FEDERAL REQUIREMENTS OF THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970 (OSHA), JULY 1, 1987 AS IT RELATES TO CONTRACTOR'S OPERATIONS.

10. THE CONTRACTOR SHALL COMPLY WITH ALL STATE REGULATIONS REGARDING AIR, WATER, AND NOISE POLLUTION. THE CONTRACTOR WILL NOT BE ALLOWED TO BUILD FIRES ON THE SITE.

11. THE SCALE SHOWN ON THE DRAWINGS APPLIES ONLY TO THE FULL SIZE PLANS NOT THE REDUCED SIZE PLANS.

12. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN DRAINAGE FLOWS AT ALL TIMES DURING THE PERFORMANCE OF THE WORK. METHODS USED BY THE CONTRACTOR SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER. COST OF MAINTAINING DRAINAGE FLOWS SHALL BE INCIDENTAL TO THE CONTRACT.

13. WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED OR DISTURBED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKERS, MONUMENTS AND RIGHT–OF–WAY PINS UNTIL THE OWNER, AND AUTHORIZED SURVEYOR, OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING AN AUTHORIZED SURVEYOR RE–ESTABLISH ANY SECTION OR SUBSECTION MONUMENTS DESTROYED BY HIS OPERATIONS. REPLACEMENT OF MONUMENTS WILL BE DETERMINED BY THE ENGINEER.

14. THE CONTRACTOR SHALL REMOVE, STORE, AND RELOCATE TO THE SATISFACTION OF THE ENGINEER ALL EXISTING SIGNAGE IN ACCORDANCE WITH STATE AND LOCAL REQUIREMENTS, AND CONSIDER THIS AS INCIDENTAL TO THE CONTRACT.

15. OUTSIDE THE EXISTING RIGHT–OF–WAY, THE CONTRACTOR SHALL USE CARE IN GRADING OR EXCAVATION NEAR ANY AND ALL EXISTING SIGNS OUTSIDE THE RIGHT–OF–WAY. ANY SIGNS REMOVED FOR CONSTRUCTION PURPOSES SHALL BE CAREFULLY REMOVED AND RE–ERECTED BY THE CONTRACTOR AT A LOCATION NEAREST TO THE ORIGINAL LOCATION, OR AT A LOCATION DETERMINED BY THE ENGINEER IN THE FIELD. REMOVAL AND RE–ERECTED SIGNS AND ANY DAMAGE DONE TO EXISTING SIGNS BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED OR REPLACED AT NO ADDITIONAL EXPENSE TO THE OWNER.

16. ALL ITEMS SHALL INCLUDE ALL THE NECESSARY MATERIALS AND LABOR TO COMPLETE THE ITEM IN PLACE. MATERIALS AND LABOR NOT SPECIFICALLY IDENTIFIED SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.

17. AT THE END OF EACH DAY, THE CONTRACTOR SHALL SECURE THE CONSTRUCTION WORK ZONE FROM POTENTIAL INTRUDERS.

18. THE CONTRACTOR SHALL FIELD VERIFY THE ELEVATIONS OF THE BENCHMARKS PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL ALSO FIELD VERIFY LOCATION, ELEVATION AND SIZE OF EXISTING UTILITIES, AND VERIFY PAVEMENT ELEVATIONS WHERE MATCHING INTO EXISTING WORK. THE CONTRACTOR SHALL FIELD VERIFY HORIZONTAL CONTROL BY REFERENCING SHOWN COORDINATES TO KNOWN PROPERTY LINES. NOTIFY ENGINEER OF DISCREPANCIES IN EITHER VERTICAL OR HORIZONTAL CONTROL PRIOR TO PROCEEDING WITH WORK.

19. THE CONTRACTOR SHALL CONTACT THE ENGINEER OF ANY ERRORS OR DISCREPANCIES WHICH MAY BE SUSPECTED IN LINES AND GRADES, AND SHALL NOT PROCEED WITH THE WORK UNTIL ALL LINES AND GRADES WHICH ARE BELIEVED TO BE IN ERROR HAVE BEEN VERIFIED OR CORRECTED BY THE ENGINEER OR HIS REPRESENTATIVE.

20. THE ENGINEER AND OWNER ARE NOT RESPONSIBLE FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCE OR PROCEDURES, TIME OF PERFORMANCE, PROGRAMS OR ANY SAFETY PRECAUTIONS USED BY THE CONTRACTOR. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR EXECUTION OF THEIR WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND SPECIFICATIONS.

21. ALL ITEMS TO BE REMOVED AND NOT DEFINED AS A PAY ITEM SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.

22. ALL EXCESS EARTH EXCAVATION, EXCESS MATERIALS, OR OTHER REMOVED ITEMS SHALL BE HAULED OFF–SITE AT THE CONTRACTOR'S EXPENSE, UNLESS OTHERWISE APPROVED BY THE OWNER.

23. ROADWAY AND DRAINAGE EXCAVATION WORK SHALL BE IN ACCORDANCE WITH SECTION 205 OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION, CURRENT EDITION. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL OBSTRUCTIONS, TREES, DEBRIS AND BRUSH AS DESIGNATED BY THE OWNER AND AS INDICATED ON THE PLANS. ALL MATERIALS SHALL BE DISPOSED OF AT THE CONTRACTOR'S EXPENSE. DURING CONSTRUCTION, CARE SHALL BE TAKEN TO MINIMIZE DAMAGE TO THE EXISTING TREES AND LANDSCAPING. ONLY THOSE ITEMS DESIGNATED BY THE OWNER SHALL BE REMOVED.

24. ALL ROADWAY REMOVAL ITEMS SHALL CONFORM TO SECTION 204 OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION, CURRENT EDITION. ALL JOINTS BETWEEN THE PORTION REMOVED AND THAT LEFT IN PLACE SHALL BE SAWED TO SUCH A DEPTH THAT A CLEAN, NEAT EDGE WILL RESULT WITH NO SPALLING TO THE REMAINING PORTION. THE COST OF SAWING SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT. ADDITIONAL SAWING OR RE–SAWING MAY BE REQUIRED AS DIRECTED BY THE ENGINEER WITH NO ADDITIONAL COMPENSATION BEING ALLOWED. THE COST OF SAWCUTTING THE EXISTING PAVEMENT SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

GENERAL NOTES

25. WHEN ARTIFICIAL LIGHTING IS UTILIZED DURING NIGHT OPERATIONS, THE CONTRACTOR SHALL EXERCISE UTMOST PRECAUTIONS IN PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC, AS WELL AS ADJOINING RESIDENTIAL AREAS.

26. THE CONTRACTOR IS REQUIRED TO STAY WITHIN THE NOTED PROPERTY BOUNDARIES RIGHT–OF–WAY AND EASEMENTS AS SHOWN IN THE PLANS. ANY ADDITIONAL EASEMENTS SHALL BE SECURED BY THE CONTRACTOR AT NO EXTRA COST.

27. ANY AREAS DAMAGED OR DISTURBED DURING THE PROJECT AS A DIRECT OR INDIRECT RESULT OF CONTRACTOR OPERATIONS, SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN THE ORIGINAL CONDITION. THE COST OF SAID RESTORATION OR REPAIR SHALL BE BORNE TOTALLY BY THE CONTRACTOR, WITH NO EXTRA COMPENSATION BEING AWARDED UNDER THIS CONTRACT. THE RESPONSIBILITY FOR THE REPAIR OR REPLACEMENT OF ANY UTILITY, STRUCTURE, LANDSCAPING, ETC., DAMAGED OR DESTROYED BY THE CONTRACTOR DURING MOBILIZATION OR CONSTRUCTION SHALL BE BORNE SOLELY BY THE CONTRACTOR, WITH NO EXPENSE BEING CHARGED TO THE ENGINEER OR OWNER. PRIOR TO ACCEPTANCE OF THIS REPAIR OR REPLACEMENT, THE CONTRACTOR SHALL PRESENT THE OWNER WITH A "SIGNOFF LETTER", SIGNED BY A RESPONSIBLE OFFICIAL OF THE OWNER OF THE DAMAGED UTILITY STATING THAT THE REPAIR OR REPLACEMENT IS ACCEPTABLE.

CONSTRUCTION STAKING

1. CONSTRUCTION STAKING SERVICES WILL BE PROVIDED BY FEHR GRAHAM. STAKE POINTS WILL BE STAKED ONE TIME WHEN REQUESTED BY THE CONTRACTOR. THE SAME STAKE POINTS REQUESTED BY THE CONTRACTOR A SECOND TIME WILL BE PAID FOR BY THE CONTRACTOR. CONSTRUCTION STAKING INCLUDES:
   - BUILDING CORNERS
   - PAVING GRADE
   - STORM SEWER

EROSION CONTROL NOTES

1. UNLESS OTHERWISE SPECIFIED, ALL EROSION AND SEDIMENT CONTROL MEASURES AND THEIR MAINTENANCE, CLEARING AND REMOVAL SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION.

2. THIS WORK SHALL CONFORM TO THE APPLICABLE STANDARDS FROM THE WISCONSIN DEPARTMENT OF NATURAL RESOURCES, THE WISCONSIN STORM WATER MANUAL, THE WISCONSIN DEPARTMENT TRANSPORTATION'S STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION, CURRENT EDITION, THE PROJECT SPECIFICATIONS, AND THE APPROPRIATE DETAILS.

3. A WATER RESOURCES APPLICATION FOR PROJECT PERMITS (WRAPP) WILL BE COMPLETED AND SUBMITTED TO THE WISCONSIN DEPARTMENT OF NATURAL RESOURCES BY THE OWNER PRIOR TO CONSTRUCTION.

4. THE EROSION CONTROL AND STORM WATER MANAGEMENT PLAN SHALL BE CONSIDERED PART OF THE CONTRACT DOCUMENTS AND WILL BE AVAILABLE FOR REVIEW DURING THE BIDDING PROCESS.

5. A COPY OF THE EROSION CONTROL AND STORM WATER MANAGEMENT PLAN WILL BE PROVIDED TO THE SUCCESSFUL BIDDER. THE CONTRACTOR SHALL MAINTAIN ONE COPY OF THE EROSION CONTROL AND STORM WATER MANAGEMENT PLAN AT THE CONSTRUCTION SITE AT ALL TIMES DURING WORKING HOURS FROM THE DATE OF PROJECT INITIATION TO THE DATE OF FINAL STABILIZATION.

6. THE CONTRACTOR SHALL LEGIBLY MARK ANY CHANGES OR REVISIONS IMPLEMENTED TO THE EROSION CONTROL AND STORM WATER MANAGEMENT PLAN. AT COMPLETION OF THE PROJECT, THE CONTRACTOR SHALL DELIVER THE EROSION CONTROL AND STORM WATER MANAGEMENT PLAN (INCLUDING ALL REVISIONS, RECORDS, AND INSPECTION REPORTS) TO THE OWNER.

7. THE GENERAL CONTRACTOR AND ANY SUBCONTRACTOR RESPONSIBLE FOR SEDIMENT AND EROSION CONTROL MEASURES OR CONSTRUCTION ACTIVITIES THAT DISTURB SITE SOIL WILL BE REQUIRED TO CERTIFY THE EROSION CONTROL AND STORM WATER MANAGEMENT PLAN BEFORE A NOTICE TO PROCEED IS ISSUED.

8. A COPY OF THE CONSTRUCTION SITE STORM WATER RUNOFF GENERAL WPDES PERMIT MUST BE AVAILABLE FOR PUBLIC VIEWING AT THE CONSTRUCTION SITE BY THE GENERAL CONTRACTOR.

9. THE CONTRACTOR SHALL IMPLEMENT THE EROSION AND SEDIMENT CONTROL MEASURES AS INDICATED ON THESE EROSION CONTROL PLANS AND IN THE EROSION CONTROL AND STORM WATER MANAGEMENT PLAN BEFORE CONSTRUCTION BEGINS.

10. THE CONTROLS SHALL BE INSTALLED AS DETAILED AND WHERE INDICATED ON THE EROSION CONTROL PLAN SHEETS AND AS DIRECTED BY THE INSPECTOR.

11. SITE ACTIVITIES SHOULD ENSURE THAT EXISTING VEGETATION IS PRESERVED WHERE PRACTICABLE.

12. EXCEPT AS PROVIDED IN THE EROSION CONTROL AND STORM WATER MANAGEMENT PLAN, DISTURBED PORTIONS OF THE SITE SHALL BE STABILIZED (TEMPORARILY OR PERMANENTLY SEEDED, MULCHED, SODDED OR PAVED) AS SOON AS PRACTICABLE, BUT IN NO CASE MORE THAN 7 CALENDAR DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED.

13. UNTIL SUCH TIME AS THE PROJECT SITE REACHES FINAL STABILIZATION AND A NOTICE OF TERMINATION IS FILED BY THE OWNER, THE CONTRACTOR SHALL BE RESPONSIBLE TO ADJUST, REPAIR, OR REPLACE, ALL VEGETATION, EROSION CONTROLS, SEDIMENT CONTROLS, AND ANY OTHER PROTECTIVE MEASURES AS REQUIRED IN ORDER TO MAINTAIN THEIR INTENDED FUNCTION IN A GOOD AND EFFECTIVE OPERATING CONDITION.

14. EXCEPT FOR FLOWS FROM FIRE FIGHTING ACTIVITIES, SOURCES OF NON–STORM WATER EXPECTED DURING THE CONSTRUCTION PROCESS THAT MAY BE COMBINED WITH STORM WATER DISCHARGES ARE IDENTIFIED IN THE EROSION CONTROL AND STORM WATER MANAGEMENT PLAN. THESE DISCHARGES SHALL BE DIRECTED AWAY FROM UNPROTECTED, BARE, OR OTHERWISE UNSTABILIZED SOIL, AND APPROPRIATE POLLUTION PREVENTION MEASURES SHALL BE IMPLEMENTED SO THAT THESE DISCHARGES DO NOT CAUSE EROSION OR DEGRADE THE QUALITY OF RUNOFF FROM THE CONSTRUCTION SITE.

15. REGULAR INSPECTIONS WILL BE MADE AS REQUIRED UNDER THE GENERAL WPDES PERMIT NO. WI–S067831–04 AND SPECIFIED IN THE EROSION CONTROL AND STORM WATER MANAGEMENT PLAN. A QUALIFIED INSPECTOR WILL BE PROVIDED BY THE OWNER. BASED ON THE RESULTS OF THE INSPECTIONS, POLLUTION PREVENTION MEASURES SHALL BE REVISED AS APPROPRIATE AS SOON AS PRACTICABLE AFTER EACH INSPECTION. SUCH REVISIONS SHALL BE IMPLEMENTED WITHIN 7 CALENDAR DAYS FOLLOWING EACH INSPECTION.

16. THE INSPECTOR SHALL HAVE AUTHORIZATION TO DETERMINE THE ADEQUACY OF THE CONTRACTOR'S EROSION CONTROL EFFORTS. THE OWNER OR THE INSPECTOR SHALL HAVE FULL AUTHORITY OVER THE GENERAL CONTRACTOR AND ANY SUBCONTRACTOR TO CAUSE POLLUTANT CONTROL MEASURES TO BE REPAIRED, MODIFIED, MAINTAINED, SUPPLEMENTED, OR WHATEVER ELSE IS NECESSARY IN ORDER TO ACHIEVE EFFECTIVE POLLUTANT CONTROL OR TO SUSPEND OR LIMIT THE CONTRACTORS OPERATIONS PENDING ADEQUATE PERFORMANCE.

17. PERIMETER EROSION BARRIER TO BE CONSTRUCTED OF SILT FENCE UNLESS NOTED OTHERWISE.

18. INLET PROTECTION SHALL BE A TYPE A, B, C OR D, OR APPROVED EQUAL.

19. EROSION CONTROL BLANKET SHALL BE OF NORTH AMERICAN GREEN DS75 OR APPROVED EQUAL.

20. A TEMPORARY CONCRETE WASHOUT FACILITY SHALL BE CONSTRUCTED AT A LOCATION APPROVED BY THE ENGINEER. WASHOUT FACILITY SHALL BE UTILIZED FOR ALL APPLICABLE OPERATIONS.

EROSION CONTROL NOTES

21. STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED, TO THE DIMENSIONS AS SHOWN, AT APPROVED LOCATIONS FOR THIS PROJECT. ALL CONSTRUCTION TRAFFIC MUST UTILIZE THE STABILIZED CONSTRUCTION ENTRANCES WHEN EXITING THE SITE. ALL COST FOR EROSION CONTROL AND RESTORATION WORK ASSOCIATED WITH THE APPROVED STABILIZED CONSTRUCTION ENTRANCES SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

22. TEMPORARY EROSION CONTROL MEASURES INCLUDE TEMPORARY DITCH CHECKS, PERIMETER EROSION BARRIER, INLET AND PIPE PROTECTION, TEMPORARY SEEDING, AND ANY OTHER TEMPORARY EROSION CONTROL MEASURE NEEDED TO LIMIT THE AMOUNT OF SOIL EROSION AND SEDIMENTATION DURING CONSTRUCTION.

23. AT THE COMPLETION OF THE PROJECT, ALL TEMPORARY EROSION CONTROL ITEMS SHALL BE REMOVED FROM THE SITE, AND BECOME THE PROPERTY OF THE CONTRACTOR. CONTRACTOR MUST STABILIZE ANY AREA DISTURBED BY THE REMOVAL OF EROSION CONTROL ITEMS.

24. CONTRACTOR SHALL CLEAN ANY DEBRIS TRACKED OFFSITE DAILY.

SEEDING OF DISTURBED AREAS

1. THE FINAL TOP 6" INCHES OF SOIL IN ANY DISTURBANCE AREA MUST BE A COHESIVE SOIL CAPABLE OF SUPPORTING VEGETATION.

2. FERTILIZER HAVING AN ANALYSIS OF 16–6–6 SHALL BE APPLIED AT A RATE OF 7 LBS/1000 SF TO ALL DISTURBED AREAS AND INCORPORATED INTO THE SEEDBED PRIOR TO SOWING THE SEED.

3. THE CONTRACTOR SHALL SEED AND STABILIZE ALL DISTURBED AREAS ADJACENT TO IMPROVEMENTS WITH SEEDING, WISDOT SEED MIXTURE NO. 10 AND NAG DS75 EROSION CONTROL BLANKET OR APPROVED EQUAL IN ACCORDANCE WITH WISDOT.

4. GUARANTEE: ALL SEEDED AREAS SHALL BE MAINTAINED AND MOWED FOR AT LEAST 30 DAYS AFTER GERMINATION. SCATTERED BARE SPOTS NO LARGER THAN TWO SQUARE FOOT WILL BE ALLOWED UP TO A MAXIMUM OF 5% OF ANY SEEDED AREA INCLUDING 30–DAY MAINTENANCE, MOWING AND WATERING AS NECESSARY.

5. THIS WORK SHALL CONFORM TO THE APPLICABLE STANDARDS FROM THE WISCONSIN DEPARTMENT OF NATURAL RESOURCES, THE WISCONSIN STORM WATER MANUAL, THE WISCONSIN DEPARTMENT TRANSPORTATION'S STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION, CURRENT EDITION, THE PROJECT SPECIFICATIONS, AND THE APPROPRIATE DETAILS.

6. RESTORATION – THE CONTRACTOR SHALL RESTORE ALL AREAS DISTURBED DURING CONSTRUCTION OF THE IMPROVEMENTS AND RELATED APPURTENANCES OR AS PART OF ANY OF THEIR ACTIVITIES TO A CONDITION EQUAL TO OR BETTER THAN THE ORIGINAL CONDITION.

ZONING DISTRICT: I–1 INDUSTRIAL DISTRICT
LAND USE: BREWERY/WAREHOUSE

FEHR GRAHAM
ENGINEERING & ENVIRONMENTAL
ILLINOIS
IOWA
WISCONSIN

OWNER/DEVELOPER:
NEW GLARUS BREWING CO.
2400 WISCONSIN 69
NEW GLARUS, WI 53574

PROJECT AND LOCATION:
NEW GLARUS BREWING CO.
WAREHOUSE ADDITION
NEW GLARUS, WI

DRAWN BY: K.K.
APPROVED BY: J.D.
DATE: 02/17/23
SCALE: AS NOTED

REVISIONS

REV. NO.	DESCRIPTION	DATE

DRAWING: GENERAL NOTES

SET TYPE: REVIEW SET
G:\C3D\22\22-821\Plans\22-821 PLANS.dwg, Notes 1

JOB NUMBER: 22–821

SHEET NUMBER: 3 of 12

PLOT DATE: 2/17/23

STORM SEWER

1. STORM SEWERS THAT CROSS OVER ANY PROPOSED WATER MAIN SHALL BE CONSTRUCTED WITH RUBBER GASKETED JOINTS (ASTM C443).
2. ALL EXISTING MANHOLE CONNECTIONS MUST BE CORE-DRILLED, UNLESS A PRE-CORED HOLE, SUITABLY LOCATED, EXISTS IN THE MANHOLE.
3. THE LENGTH OF FLARED END SECTIONS IS NOT INCLUDED IN THE INDICATED PIPE LENGTH. HOWEVER, THE ENTIRE LENGTH OF THE FLARED END SECTION IS TAKEN INTO ACCOUNT FOR THE INDICATED SLOPE AND INVERT GRADES.
4. STORM SEWERS MATERIALS AND INSTALLATION SHALL CONFORM TO SECTION 508 OF THE STANDARD SPECIFICATIONS FOR REINFORCED CONCRETE PIPE STORM SEWERS. THIS WORK SHALL INCLUDE SEWER PIPE, PIPE BEDDING, TRENCH BACKFILL, MAKING CONNECTIONS TO EXISTING STRUCTURES, PATCHING EXISTING STRUCTURES AT NEW CONNECTIONS, STOPPERS AND PLUGS, AND ANY OTHER INCIDENTAL COSTS. ALL WORK SHALL CONFORM TO DETAILS INCLUDED IN THE CONTRACT DOCUMENTS, OR TO ORDERED MODIFICATIONS THEREFORE, AND TO APPLICABLE PORTIONS OF SECTIONS 607 AND 608 OF THE STANDARD SPECIFICATIONS AND IN ACCORDANCE WITH THE REQUIREMENTS OF THE OWNER. PIPE BEDDING OF 4" WELL GRADED DURABLE GRAVEL, CRUSHED STONE, OR SLAG WILL BE REQUIRED. IN STRUCTURAL LOCATIONS AND ROADWAY PAVEMENT, BEDDING MATERIAL SHALL BE PLACED TO ONE FOOT ABOVE THE TOP OF THE PIPE. TRENCH BACKFILL FROM THIS ELEVATION TO PAVEMENT SUBGRADE WILL BE REQUIRED. COST FOR BACKFILL, BEDDING, AND ALL NECESSARY WORK REQUIRED FOR INSTALLATION SHALL BE INCLUDED WITH THE COST OF THE PIPE.
5. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING STORM SEWER ELEVATIONS THAT PROJECT CONNECTS TO.

MATERIAL AND COMPACTION TESTING

1. A GEOTECHNICAL REPRESENTATIVE WILL BE PROVIDED AND PAID FOR BY THE OWNER FOR ANY REQUIRED TESTING. THE CONTRACTOR IS RESPONSIBLE TO FOLLOW AND MEET GUIDELINES SET BY THE GEOTECHNICAL REPRESENTATIVE.

UTILITIES

1. UTILITIES SHOWN ON THE PLANS ARE FOR ILLUSTRATIVE PURPOSES ONLY AND NO GUARANTEE OF THEIR ACCURACY IS MADE OR INFERRED. THE LOCATION OF EXISTING UTILITIES AS SHOWN ON THE DRAWINGS REPRESENT DATA RECEIVED FROM VARIOUS SOURCES. IT IS NOT GUARANTEED TO BE CORRECT OR ALL-INCLUSIVE. THE CONTRACTOR SHALL CONDUCT HIS OWN INVESTIGATION INTO THE LOCATION, SIZE, DEPTH AND NATURE OF ANY AND ALL EXISTING UTILITIES THAT MAY INTERFERE WITH THE WORK UNDER THIS CONTRACT. ANY EXISTING UTILITIES THAT ARE TO REMAIN IN SERVICE SHALL BE FULLY PROTECTED BY THE CONTRACTOR AND ANY DAMAGE CAUSED BY THE CONSTRUCTION OPERATIONS SHALL BE IMMEDIATELY REPAIRED OR REPLACED TO THE SATISFACTION OF THE ENGINEER OR THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ANY AND ALL UTILITY COMPANIES REGARDING ADJUSTMENTS NECESSARY. THIS WORK SHALL BE AT THE CONTRACTOR'S EXPENSE AND CONSIDERED INCIDENTAL TO THE PROJECT COST. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND, OVERHEAD, OR SURFACE UTILITIES EVEN THOUGH THEY MAY NOT BE SHOWN ON THE PLANS. ANY UTILITY THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER OR THE OWNER OR REPLACED. THIS WORK SHALL BE AT THE CONTRACTOR'S EXPENSE.
2. THE CONTRACTOR MUST VERIFY AND LOCATE ALL EXISTING UTILITIES ON OR ADJACENT TO THE SITE. PRIOR TO BEGINNING CONSTRUCTION ACTIVITIES, CONTACT DIGGERS HOTLINE AT 1-800-242-8511 (OR 811) FOR EXACT FIELD LOCATION OF UTILITIES. DAMAGE, AND THE COST THEREOF, TO ANY AND ALL UTILITIES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. ANY AND ALL EXISTING UTILITIES SHOWN HEREON ARE APPROXIMATE. THE ENGINEER AND SURVEYOR ASSUMES NO RESPONSIBILITY FOR THE LOCATION OF THE EXISTING UTILITIES SHOWN HEREON.
3. IF THERE ARE ANY UTILITIES WHICH ARE NOT MEMBERS OF THE DIGGERS HOTLINE SYSTEM, THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR DETERMINING THIS AND REQUESTING SAID UTILITIES TO FIELD VERIFY AND MARK PERTINENT UTILITY LOCATIONS.
4. THE UTILITY LOCATIONS, DEPTHS, ETC. SHOWN ON THESE PLANS ARE APPROXIMATE ONLY, AND SHALL BE VERIFIED BY THE CONTRACTOR WITH ALL AFFECTED UTILITY COMPANIES PRIOR TO INITIATING CONSTRUCTION OPERATIONS; THE ENGINEER AND OWNER ASSUME NO RESPONSIBILITY FOR THE ADEQUACY, SUFFICIENCY OR EXACTNESS OF THESE UTILITY REPRESENTATIONS.
5. THE CONTRACTOR SHALL CONTACT THE NECESSARY UTILITY COMPANIES FOR ANY UTILITY RELOCATIONS. THE CONTRACTOR SHALL PAY FOR ALL COSTS ASSOCIATED WITH RELOCATION OF UTILITIES ON OR ADJACENT TO THE SUBJECT PROPERTY OR WITHIN THE ROAD RIGHT-OF-WAY.
6. TRENCH BACKFILL SHALL BE FILL MATERIAL TYPE A, OR TYPE C, IN ACCORDANCE WITH AASHTO T27 GUIDELINES AND THE WISCONSIN DEPARTMENT OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN", CURRENT EDITION. COST SHALL BE INCLUDED IN UNIT PRICE OF PIPE.
7. TRENCH BACKFILL SHALL BE USED IN LOCATIONS WHERE THERE IS AN EXISTING OR PROPOSED PERMANENT SURFACE.
8. ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH CONSTRUCTION OR HAVE THE POTENTIAL FOR CREATING FUTURE PROBLEMS SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE PROJECT AT AN APPROVED LOCATION OBTAINED BY THE CONTRACTOR, ACCORDING TO THE "STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN", CURRENT EDITION, AND AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED INCIDENTAL TO EARTH EXCAVATION AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
9. ANY AND ALL FIELD TILES AND OR STORM SEWERS DAMAGED OR ENCOUNTERED DURING THE CONSTRUCTION ACTIVITIES SHALL BE REPAIRED, REPLACED AND/OR CONNECTED IMMEDIATELY BY THE CONTRACTOR. COST FOR SAID REPAIRS, REPLACEMENT, AND/OR CONNECTION SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

TRAFFIC CONTROL

1. THE CONTRACTOR SHALL PROVIDE, INSTALL AND MAINTAIN ALL TRAFFIC CONTROL ITEMS NECESSARY FOR THE CONSTRUCTION OF ITEMS WITH IN THE ROAD RIGHT-OF-WAY. ALL WORK PERFORMED SHALL HAVE TRAFFIC CONTROL IN ACCORDANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AND OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION, CURRENT EDITION.
2. ALL TRAFFIC CONTROL DEVICES USED FOR THE MAINTENANCE OF TRAFFIC SHALL BE REFLECTORIZED PRIOR TO INSTALLATION AND CLEANED AS NECESSARY THROUGHOUT THE DURATION OF THE CONTRACT. ALL SIGNS SHALL BE FURNISHED, INSTALLED AND MAINTAINED BY THE CONTRACTOR. PAYMENT SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.
3. TRAFFIC CONDITIONS, ACCIDENTS, AND OTHER UNFORESEEN CONDITIONS MAY REQUIRE THE ENGINEER TO MODIFY THE LOCATION OF THE TRAFFIC CONTROL DEVICES. THE CONTRACTOR SHALL MAKE THE NECESSARY ADJUSTMENTS AS DIRECTED BY THE ENGINEER WITHOUT DELAY. THE CONTRACTOR SHALL RESPOND WITHIN 30 MINUTES FROM THE TIME OF NOTIFICATION BY THE ENGINEER TO ANY REQUEST MADE BY THE ENGINEER FOR CORRECTION, IMPROVEMENT OR MODIFICATION OF THE MAINTENANCE OF TRAFFIC CONTROL DEVICES. DURING CONSTRUCTION OPERATIONS, THE CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO PROTECT ADJACENT TRAFFIC LANES OPEN TO TRAFFIC FROM DEBRIS BEING BLOWN OR OTHERWISE REMOVED FROM THE CONSTRUCTION AREAS. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR KEEPING DEBRIS OFF THE ADJACENT TRAVELED LANE SURFACE. COST INCIDENTAL TO THE PROJECT.
4. THE CONTRACTOR SHALL SUBMIT MAINTENANCE OF TRAFFIC AND STAGING OF CONSTRUCTION PLANS FOR APPROVAL BY THE ENGINEER PRIOR TO COMMENCING WORK.
5. THE CONTRACTOR SHALL PERFORM THE WORK UNDER STAGE CONSTRUCTION IN THE EVENT THAT THE CONTRACTOR WILL NEED TO CLOSE PUBLIC ROADS, CONTRACTOR SHALL SUBMIT PROPOSED DETOUR ROUTE AND ASSOCIATED SIGNAGE TO THE ENGINEER PRIOR TO COMMENCING WORK.
6. TRAFFIC CONTROL DEVICES, STREET NAME SIGNS, AND PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH VILALGE OF NEW GLARUS ORDINANCES AND THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES". LOCATIONS OF SIGNS AND MARKINGS SHALL BE SPECIFIED BY THE PLANS, AND/OR AS DIRECTED BY THE ENGINEER.
7. PROVIDE TO THE ENGINEER AND THE OWNER THE NAME AND PHONE NUMBER OF INDIVIDUALS RESPONSIBLE FOR MAINTAINING TRAFFIC CONTROL MEASURES DURING CONSTRUCTION. THIS INDIVIDUAL SHALL BE AVAILABLE TO CORRECT TRAFFIC CONTROL PROBLEMS 24 HOURS PER DAY.
8. THE CONTRACTOR SHALL NOTIFY THE POST OFFICE, POLICE DEPARTMENT, FIRE DEPARTMENT, 911 DISPATCH CENTER, WISCONSIN DEPARTMENT OF TRANSPORTATION, STATE POLICE, APPROPRIATE SCHOOL DISTRICT AND THE LOCAL AGENCY A MINIMUM OF 5 DAYS PRIOR TO CLOSING ANY PORTION OF THE STREET OR ALLEY.

SUBGRADES, SUBBASES, AND BASE COURSES

1. THE CONTRACTOR WILL BE REQUIRED TO SUBSTANTIATE BASE COURSE THICKNESSES AND FINISH PAVEMENT THICKNESSES. THE ENGINEER SHALL INSPECT BASE COURSE COREOUT PRIOR TO PLACING BASE COURSE TO ENSURE REQUIRED BASE COURSE DEPTH IS PRESENT. IN ADDITION, THE ENGINEER AND/OR THE CITY ENGINEER SHALL WITNESS THE PLACEMENT OF BITUMINOUS BINDER AND SURFACE COURSE. CORE DRILLING MAY BE REQUIRED TO DEMONSTRATE THAT BASE COURSE AND PAVEMENT THICKNESSES CONFORM TO THE SPECIFICATIONS. PRIOR TO PLACING BASE COURSE MATERIAL, THE CONTRACTOR SHALL TEST ROLL THE SUBGRADE, IN THE PRESENCE OF THE ENGINEER OR HIS AGENT TO DEMONSTRATE THAT SAID SUBGRADE IS READY FOR BASE. PRIOR TO PLACEMENT OF THE BITUMINOUS SURFACE, THE SAME VERIFICATION PROCEDURE SHALL BE PERFORMED ON THE BASE COURSE MATERIAL. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST 48 HOURS PRIOR TO PERFORMING ANY OF THE REQUIRED TESTS SO THAT A REPRESENTATIVE MAY BE PRESENT.
2. PRIOR TO ANY EMBANKMENT OR ROAD BASE BEING PLACED, SHOULD IT BE DETERMINED BY THE ENGINEER THAT THE SUBGRADE MATERIAL IS UNSUITABLE ON WHICH TO CONSTRUCT THE ROADWAY STRUCTURE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING THE UNSUITABLE MATERIAL TO THE SATISFACTION OF THE ENGINEER AND REPLACING SAME WITH STABILIZING SUBBASE CONSISTING OF SELECT CRUSHED MATERIAL IN ACCORDANCE WITH THE WISCONSIN DEPARTMENT OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION, CURRENT EDITION. TO HELP MINIMIZE THE AMOUNT OF SUBBASE MATERIAL INSTALLED FOR GROUND STABILIZATION, GEOTECHNICAL FABRIC MAY BE INSTALLED AS APPROVED BY THE ENGINEER. GEOTEXTILE FABRIC SHALL BE INSTALLED IN ACCORDANCE WITH SECTION 645 OF THE WISDOT STANDARD SPECIFICATIONS. THE COARSE AGGREGATE SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC YARD FOR SELECT CRUSHED MATERIAL. THE EXCAVATION BELOW SUBGRADE AND DISPOSAL OF THE UNSUITABLE MATERIAL SHALL BE CONSIDERED INCIDENTAL TO SELECT CRUSHED MATERIAL. STABILIZING FABRIC SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD FOR GEOTEXTILE FABRIC.

EXCAVATION/EARTHWORK

1. THE CONTRACTOR SHALL USE CARE IN GRADING OR EXCAVATION NEAR ANY AND ALL EXISTING ITEMS WHICH ARE NOT INDICATED TO BE REMOVED. ANY DAMAGE DONE TO EXISTING ITEMS BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED AT NO ADDITIONAL EXPENSE TO THE OWNER.
2. PRIOR TO STARTING EARTHWORK OR UTILITY TRENCHING, THE CONTRACTOR SHALL STRIP THE SITE OF TOPSOIL TO A DEPTH OF 6" AND TO THE LIMITS APPROVED BY THE ENGINEER. THIS MATERIAL SHALL BE STOCKPILED IN A REMOTE LOCATION OF THE SITE (APPROVED BY THE ENGINEER) UNTIL THE PLAN IMPROVEMENTS ARE COMPLETED AND THE EXCESS MATERIAL SPREAD AS DIRECTED. IT SHALL THEN BE THE RESPONSIBILITY OF THE CONTRACTOR TO SPREAD THIS TOPSOIL MATERIAL IN AREAS OF THE SITE, OVER AREAS WHERE EXCESS EXCAVATED MATERIAL, SAND, GRAVEL HAS BEEN SPREAD OR IN OTHER AREAS AS DESIGNATED BY THE ENGINEER. THE MATERIAL SHALL THEN BE COMPACTED TO A MINIMAL DEPTH OF 6" AND FINE GRADED IN A MANNER ACCEPTABLE TO THE ENGINEER. THIS WORK SHALL BE IN ACCORDANCE WITH THE WISCONSIN DEPARTMENT OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION, CURRENT EDITION.
3. CONSTRUCTION AND DEMOLITION (C&D) MATERIALS ARE TO BE MANAGED ACCORDINGLY PER THE WISCONSIN DEPARTMENT OF NATURAL RESOURCES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MANAGE THE DIVERSION OF C&D MATERIAL AWAY FROM LANDFILLS ACCORDING TO STATE REQUIREMENTS.
4. ROCK REMOVAL TO BE PROVIDED BY MECHANICAL MEANS ONLY, NO BLASTING PERMITTED. ROCK EXCAVATION SHALL BE CONSIDERED WHEN THE PHYSICAL CHARACTERISTICS AND DIFFICULTY OF ROCK REMOVAL BY USE OF HYDRAULIC EXCAVATION IS DETERMINED BY ENGINEER TO NOT BE POSSIBLE. ROCK EXCAVATION TO BE PAID FOR AT THE BID PRICE FOR EXCAVATION.
5. ALL EXCAVATIONS FOR STRUCTURES AND PIPE SHALL BE KEPT DEWATERED DURING CONSTRUCTION UNTIL BACKFILL IS IN PLACE. DURING DEWATERING OPERATIONS, WATER SHALL BE PUMPED INTO SEDIMENT BASINS OR SILT TRAPS. (COST INCIDENTAL)
6. EXCAVATION COMMON SHALL CONFORM TO SECTION 205 OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION, CURRENT EDITION. THIS WORK SHALL INCLUDE THE EXCAVATION OF ALL MATERIALS TO DESIGN SUBGRADE ELEVATIONS INDICATED IN THE PLANS.
7. A SOIL REPORT CAN BE PROVIDED IN AN ELECTRONIC FORMAT TO THE CONTRACTOR UPON REQUEST FROM THE OWNER.
8. SHEETING AND SHORING SHALL BE CONSIDERED INCIDENTAL TO CONTRACT IF REQUIRED.
9. WHENEVER THE CONTRACTOR WORKS NEAR EXISTING FACILITIES WITHIN THE LIMITS OF THE IMPROVEMENTS DURING TRENCHING OPERATIONS, HE WILL BE REQUIRED TO HAND TRENCH IN THAT AREA IN ORDER NOT TO DAMAGE THESE FACILITIES. PUSH HOLES AND SEARCH HOLES THAT ARE DUG BY THE CONTRACTOR SHALL BE BACKFILLED BY TAMPING THE EXCAVATED MATERIAL BACK IN PLACE TO KEEP SETTLEMENT TO A MINIMUM. NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
10. EMBANKMENT WORK SHALL CONSIST OF THE CONSTRUCTION OF EMBANKMENTS BY DEPOSITING, PLACING AND COMPACTING EARTH, STONE, GRAVEL OR OTHER MATERIALS OF ACCEPTABLE QUALITY ABOVE THE NATURAL GROUND OR OTHER SURFACE IN ACCORDANCE WITH THE WISCONSIN DEPARTMENT OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION, CURRENT EDITION.
11. IF SUFFICIENT TOPSOIL IS NOT PRESENT, THE CONTRACTOR SHALL SPREAD FURNISHED TOPSOIL SO AS TO MEET THE REQUIREMENTS OF THE CONTRACT. FURNISHED TOPSOIL SHALL ONLY BE USED WITH APPROVAL BY THE ENGINEER. THIS FURNISHED TOPSOIL SHALL BE PAID FOR AS TOPSOIL, DEPTH SPECIFIED.
12. IN PROPOSED FILL AREAS FOR PAVEMENT AND EMBANKMENT, TOPSOIL AND TURF SHALL BE SCARIFIED AND REMOVED PRIOR TO CONSTRUCTING THE EMBANKMENT.

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NEW GLARUS BREWING CO.
2400 WISCONSIN 69
NEW GLARUS, WI 53574

PROJECT AND LOCATION:
NEW GLARUS BREWING CO.
WAREHOUSE ADDITION
NEW GLARUS, WI

DRAWN BY: K.K.
APPROVED BY: J.D.
DATE: 02/17/23
SCALE: AS NOTED

REVISIONS

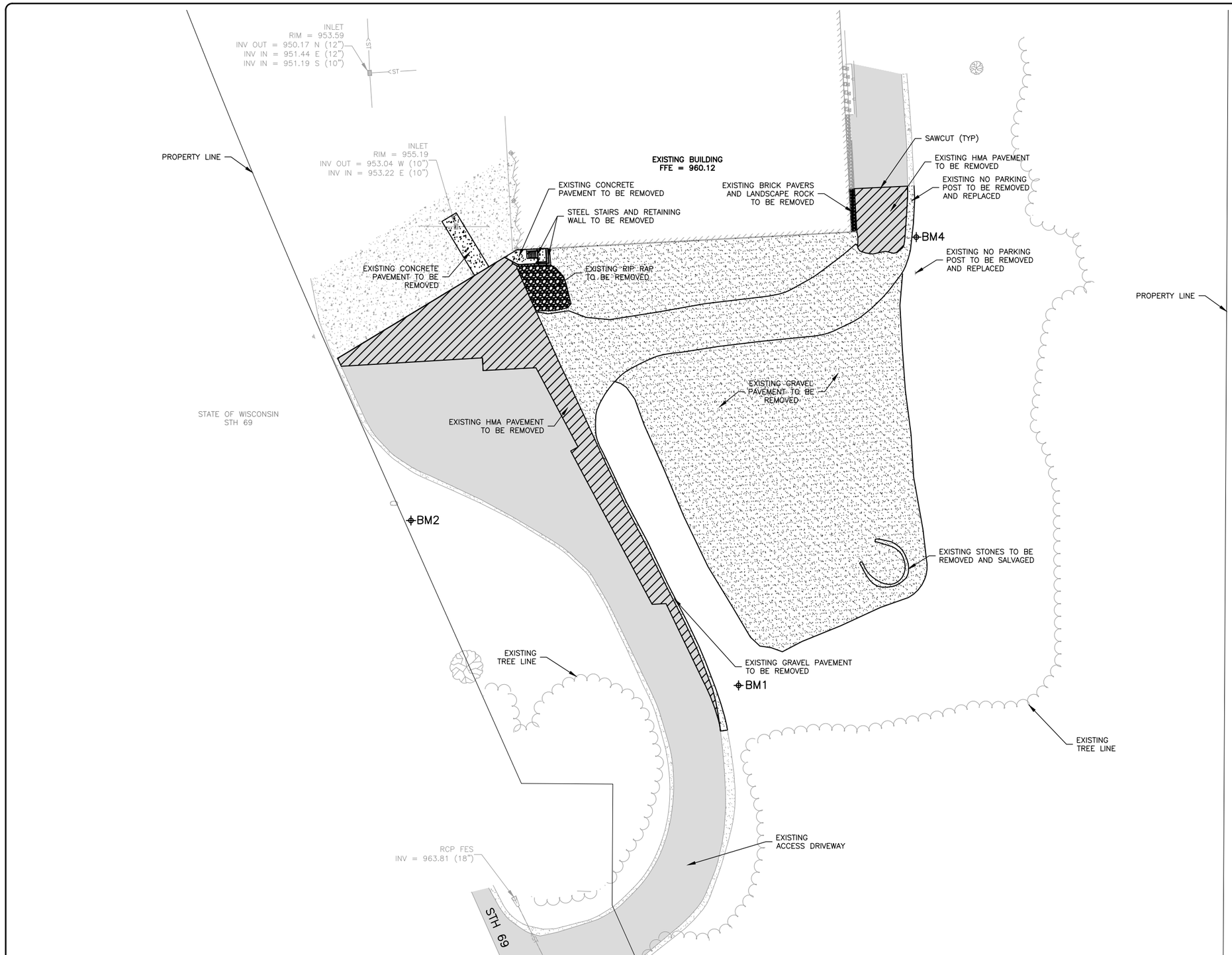
REV. NO.	DESCRIPTION	DATE

DRAWING:
GENERAL NOTES

SET TYPE: REVIEW SET
G:\C3D\22\22-821\Plans\22-821 PLANS.dwg, Notes 2

JOB NUMBER:
22-821

SHEET NUMBER:
4 of 12



BM1

BM1 = CAPPED REBAR (CP1)
N–206928.72, E–614137.37, ELEV–965.22

BM2 = CAPPED REBAR (CP2)
N–207027.30, E–613941.43, ELEV–969.23

BM3 = CAPPED REBAR (CP3)
N–206726.04, E–614052.13, ELEV–971.32

BM4 = CAPPED REBAR (CP4)
N–207196.73, E–614243.67, ELEV–956.29

N W E S

30 0 30 60 90 FEET

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SCALE: AS NOTED

REVISIONS

REV. NO.	DESCRIPTION	DATE

DRAWING:
EXISTING CONDITIONS AND REMOVAL PLAN

SET TYPE:
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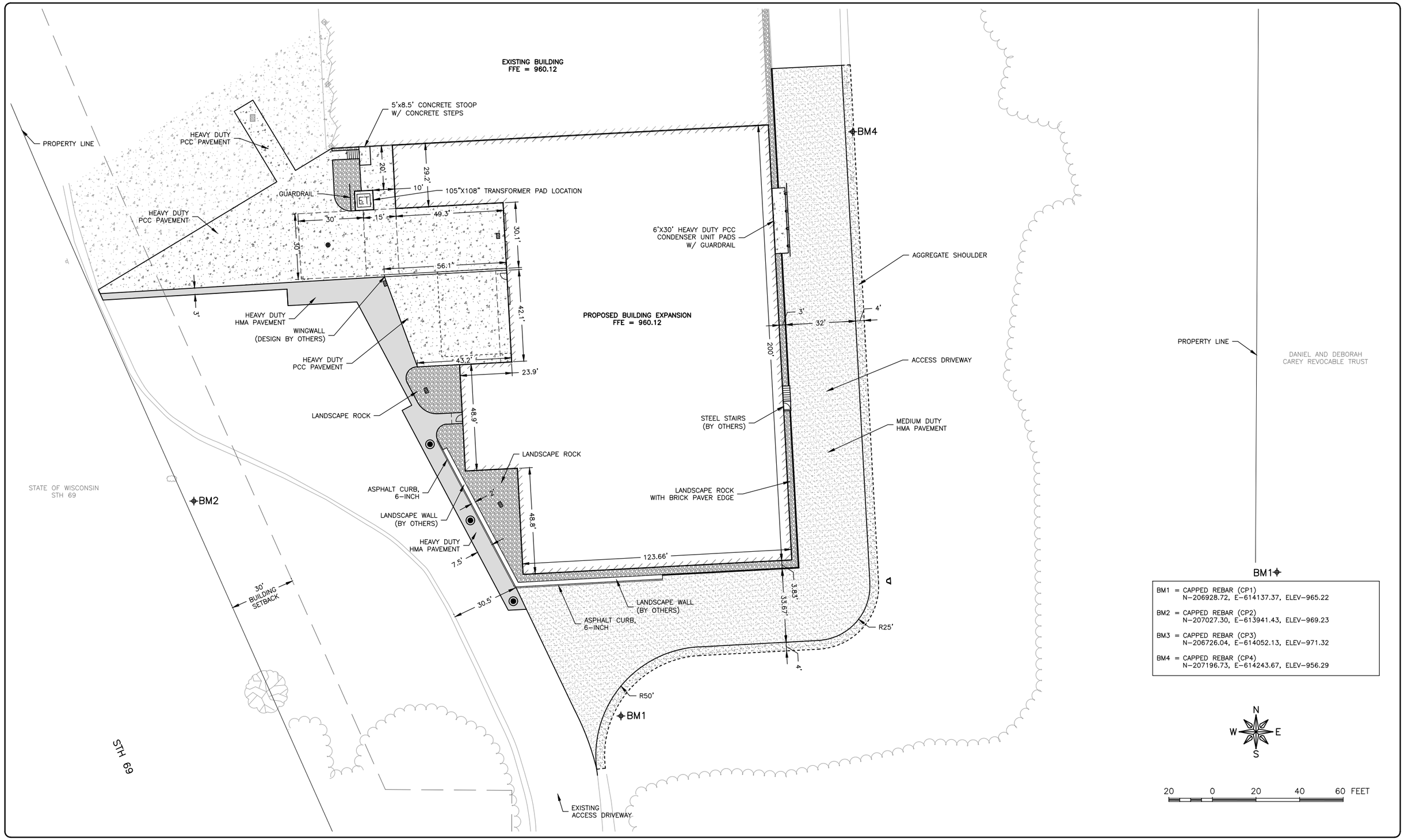
JOB NUMBER:
22–821

SHEET NUMBER:
5 of 12

PLOT DATE: 2/17/23



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REVISIONS

REV. NO.	DESCRIPTION	DATE

DRAWING:
SITE LAYOUT PLAN

SET TYPE:
G:\C3D\22\22-821\Plans\22-821 PLANS.dwg, SITE

JOB NUMBER:
22-821

SHEET NUMBER:
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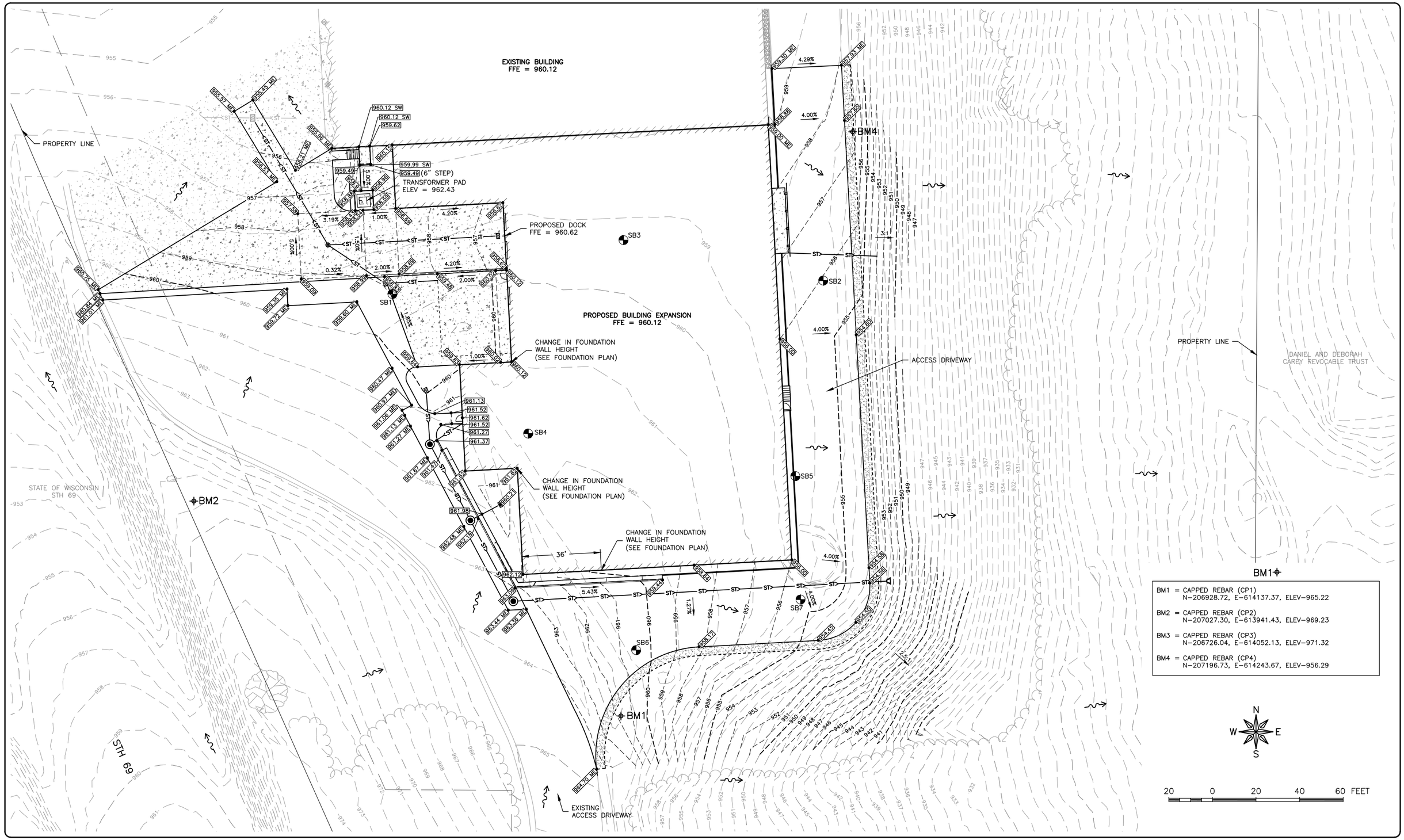
PLOT DATE: 2/17/23



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REVISIONS

REV. NO.	DESCRIPTION	DATE

DRAWING:
GRADING PLAN

SET TYPE:
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JOB NUMBER:
22-821

SHEET NUMBER:
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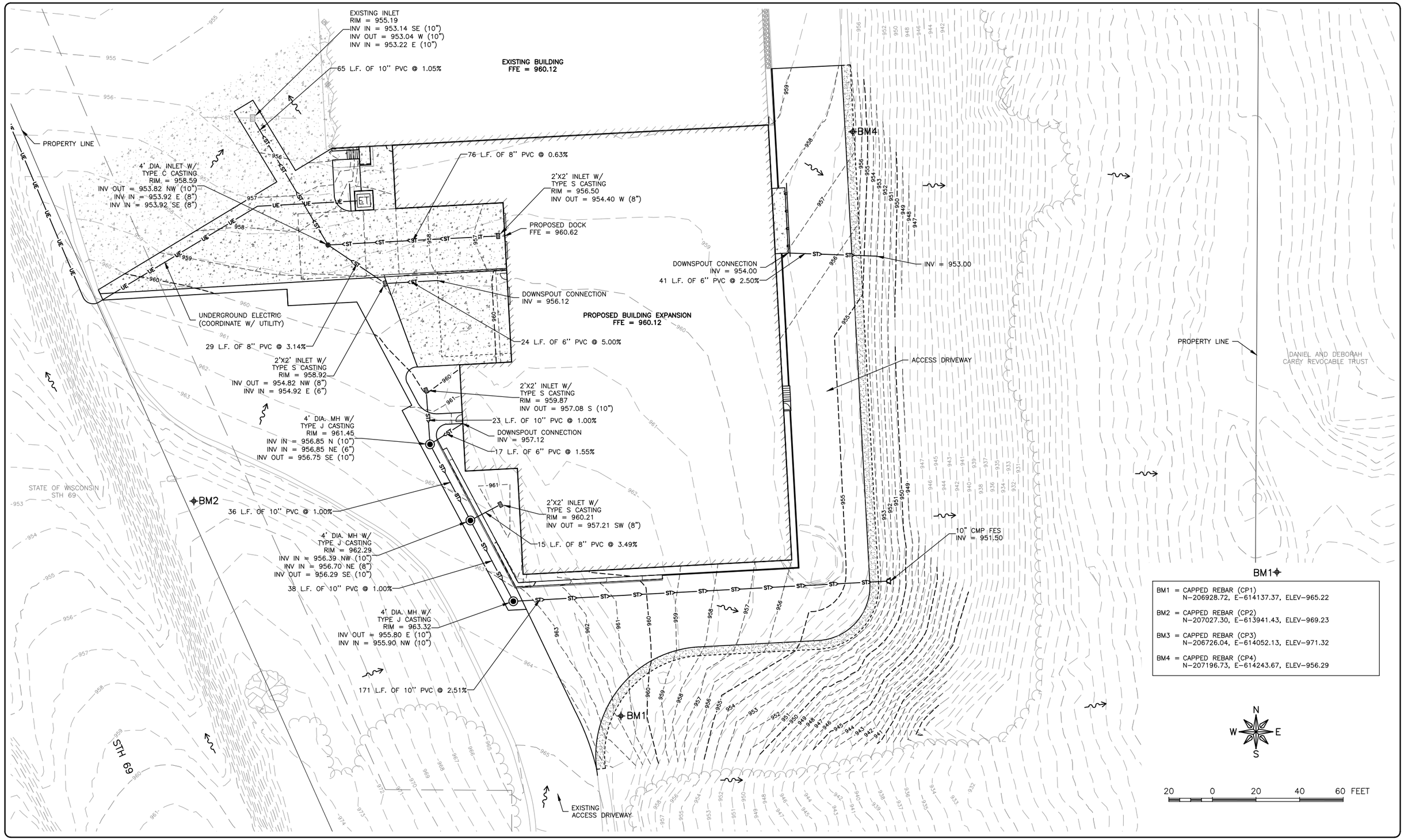
PLOT DATE: 2/17/23



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REV. NO.	DESCRIPTION	DATE

DRAWING:
UTILITIES PLAN

SET TYPE:
G:\C3D\22\22-821\Plans\22-821 PLANS.dwg, UTILITIES

JOB NUMBER:
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PLOT DATE: 2/17/23

EXISTING BUILDING
FFE = 960.12

PROPOSED BUILDING EXPANSION
FFE = 960.12

PROPOSED DOCK
FFE = 960.62

INLET PROTECTION

PROPERTY LINE

AREA OF DISTURBANCE = 68,850 SF

SILT FENCE

ACCESS DRIVEWAY

SEEDING AND RESTORATION

MEDIUM DUTY RIP RAP WITH TYPE HR FABRIC

EROSION MAT URBAN TYPE B

TRACKING PAD

CONCRETE WASHOUT

EXISTING ACCESS DRIVEWAY

STATE OF WISCONSIN STH 69

STH 69

DANIEL AND DEBORAH CAREY REVOCABLE TRUST

BM1 = CAPPED REBAR (CP1)
N-206928.72, E-614137.37, ELEV-965.22

BM2 = CAPPED REBAR (CP2)
N-207027.30, E-613941.43, ELEV-969.23

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BM4 = CAPPED REBAR (CP4)
N-207196.73, E-614243.67, ELEV-956.29

N W E S

20 0 20 40 60 FEET

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DRAWING:
EROSION CONTROL PLAN

SET TYPE:
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JOB NUMBER:
22-821

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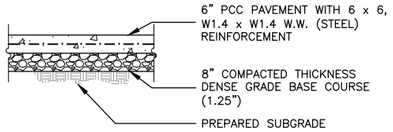
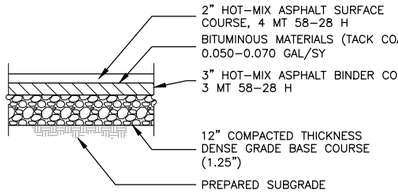
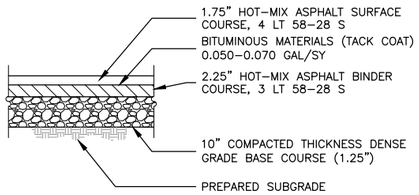


CONCRETE PAVEMENT



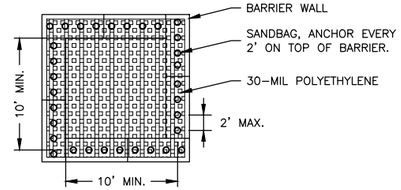
HEAVY DUTY HOT-MIX ASPHALT PAVEMENT

NOTE:
IN THE PRESENCE OF SOFT SOILS 12" OF ADDITIONAL COARSE AGGREGATE (BREAKER RUN) OVER BIAXIAL GEOGRID (TENSAR BX TYPE 1) MAY BE REQUIRED.

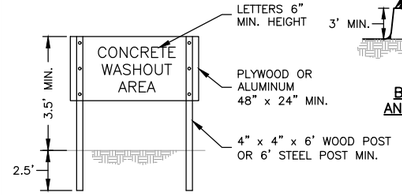


MEDIUM DUTY HOT-MIX ASPHALT PAVEMENT

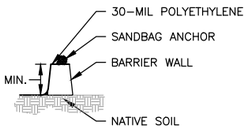
PAVEMENT CROSS SECTIONS
N.T.S.



PLAN VIEW



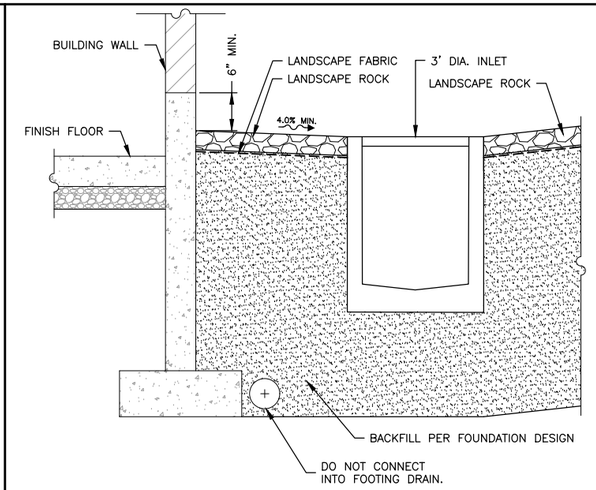
SIGN DETAIL



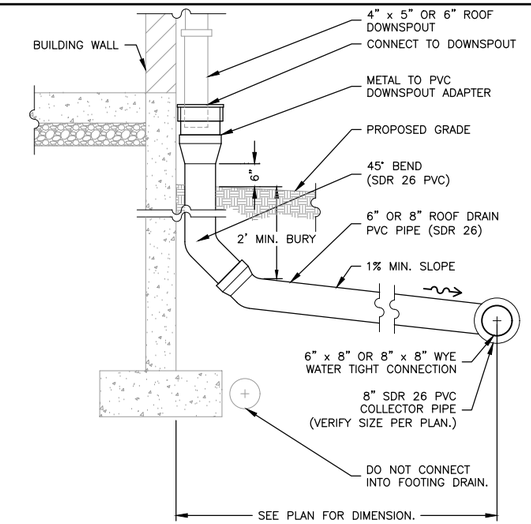
BARRIER WALL ANCHOR SECTION

NOTE: MAINTAINING TEMPORARY CONCRETE WASHOUT FACILITIES SHALL INCLUDE REMOVING AND DISPOSING OF HARDENED CONCRETE AND/OR SLURRY AND RETURNING THE FACILITIES TO A FUNCTIONAL CONDITION. FACILITY SHALL BE CLEANED OR RECONSTRUCTED IN A NEW AREA ONCE WASHOUT BECOMES TWO-THIRDS FULL.

CONCRETE WASHOUT PIT DETAIL
N.T.S.



FINISHED GRADE ADJACENT TO BUILDING
N.T.S.



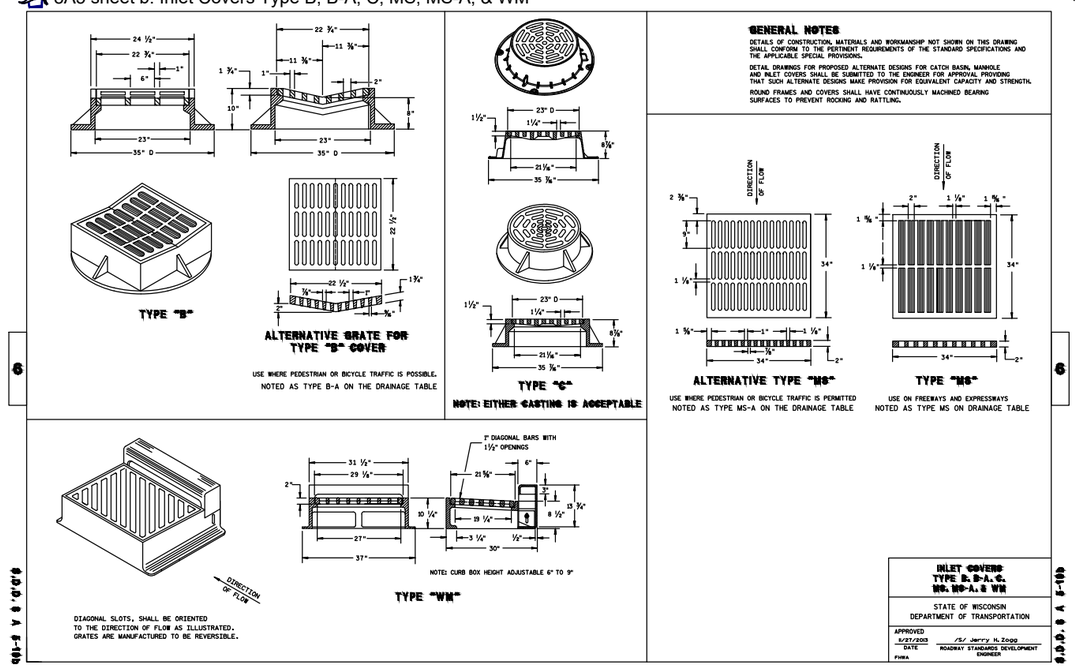
NOTE: ALL CONNECTIONS FROM DOWNSPOUT LATERAL TO COLLECTOR PIPE SHOULD BE MADE WITH A PVC SDR 26 WYE OR TEE CONNECTION.

ALL PIPE OUTLETS MUST HAVE A RODENT GUARD.

ALL 6" OR 8" PVC PIPE, FITTINGS, AND CONNECTIONS SHALL BE CONSIDERED INCIDENTAL TO BUILDING CONSTRUCTION.

DOWNSPOUT COLLECTOR DETAIL
N.T.S.

8A5 sheet b: Inlet Covers Type B, B-A, C, MS, MS-A, & WM



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JOB NUMBER:
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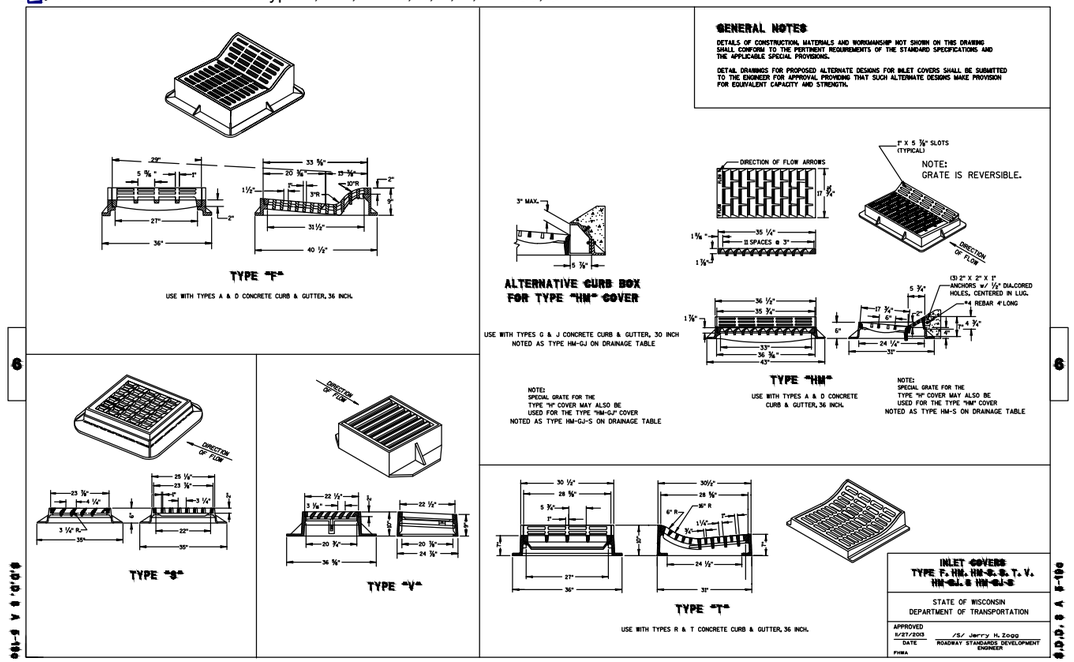
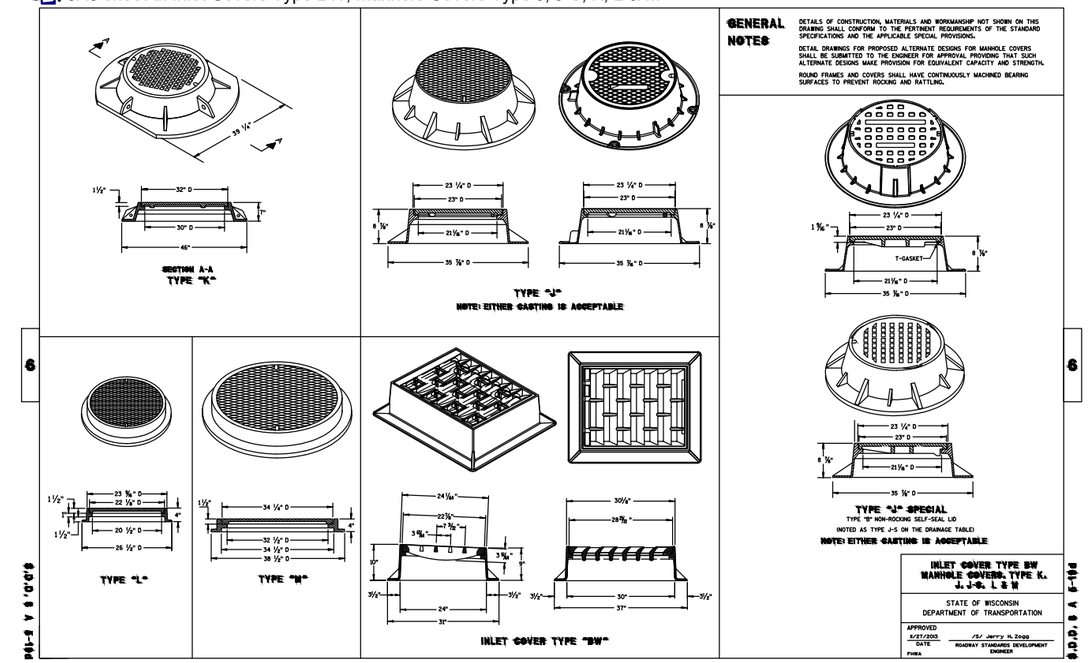
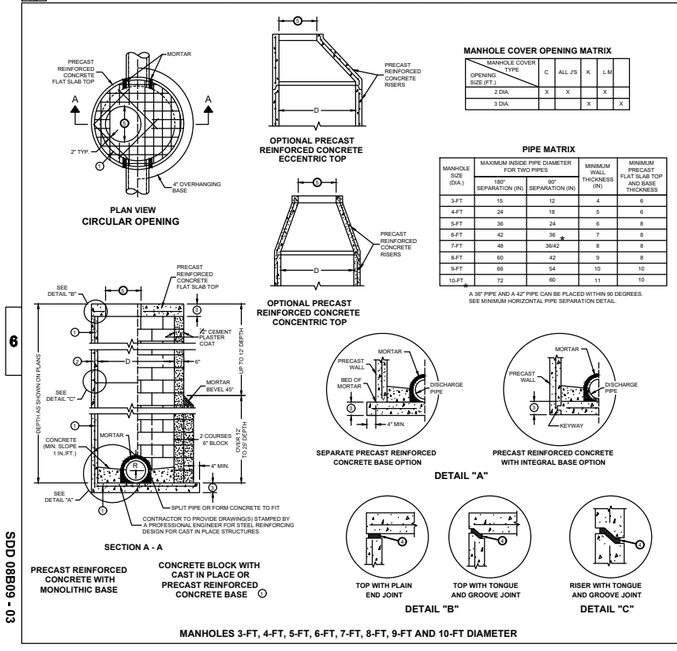
8A5 sheet c: Inlet Covers Type F, HM, HM-S, S, T, V, HM-GJ, & HM-GJ-S



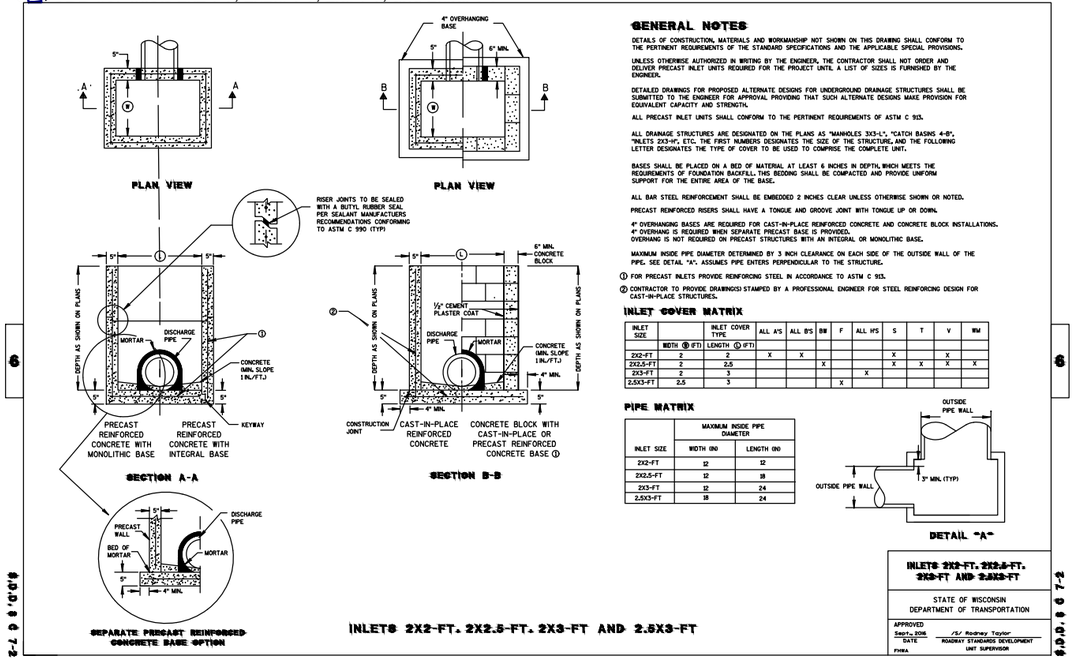
8A5 sheet d: Inlet Covers Type BW; Manhole Covers Type J, J-S, K, L & M



SDD 08B09 Manholes, 3-FT, 4-FT, 5-FT, 6-FT, 7-FT, 8-FT, 9-FT and 10-FT



SDD 8c7 Inlets 2x2-FT, 2x2.5-FT, 2x3-FT, and 2.5x3-FT



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DETAILS

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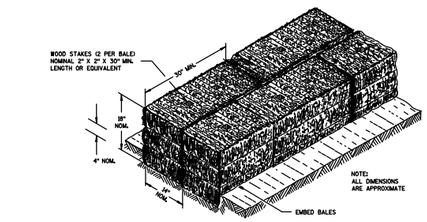
JOB NUMBER:
22-821

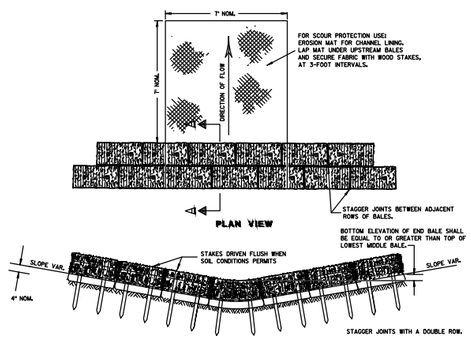
SHEET NUMBER:
11 of 12

PLOT DATE: 2/17/23

8E8: Typical Installations of Erosion Bales/Temporary Ditch Checks



SECTION A-A



PLAN VIEW

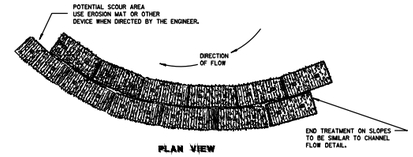
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES ①

GENERAL NOTES

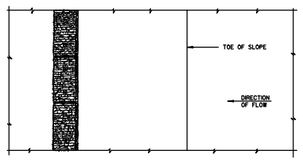
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

① TEMPORARY DITCH CHECKS EITHER EROSION BALES OR MANUFACTURED SHALL BE PAID FOR UNDER THE BID ITEM OF TEMPORARY DITCH CHECK. THE DEPARTMENT WILL NOT PAY FOR TEMPORARY DITCH CHECKS CONSTRUCTED OF A SINGLE ROW OF EROSION BALES.

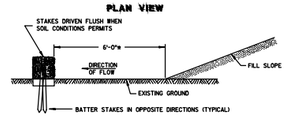


PLAN VIEW

WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

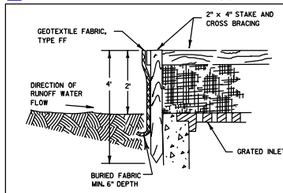
TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS

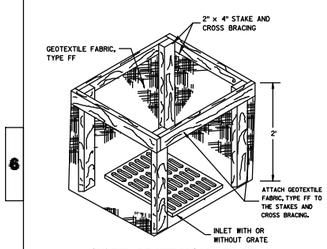
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED 6/04/02 — /S/ Beth Cormastro
DATE — CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

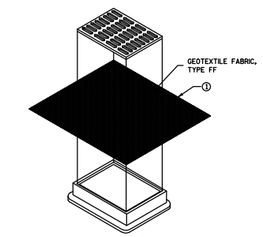
S.D.D. 8 E 8-9

8E10: Inlet Protection Type A, B, C and D



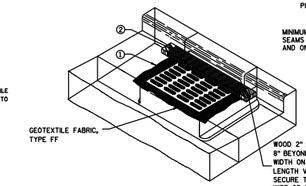


INLET PROTECTION, TYPE A

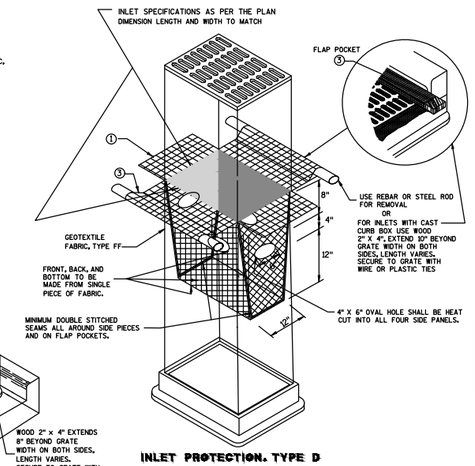


INLET PROTECTION, TYPE B (WITHOUT CURB BOX)

(CAN BE INSTALLED IN ANY INLET WITHOUT A CURB BOX)



INLET PROTECTION, TYPE C (WITH CURB BOX)



INLET PROTECTION, TYPE D

(CAN BE INSTALLED IN ANY INLET TYPE WITH OR WITHOUT A CURB BOX AS PER NOTE ②)

GENERAL NOTES

INLET PROTECTION DEVICES SHALL BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER.

MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.

WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

① FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.

② FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.

③ FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.

INSTALLATION NOTES

TYPE B & C

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

TYPE D

DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3", WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.

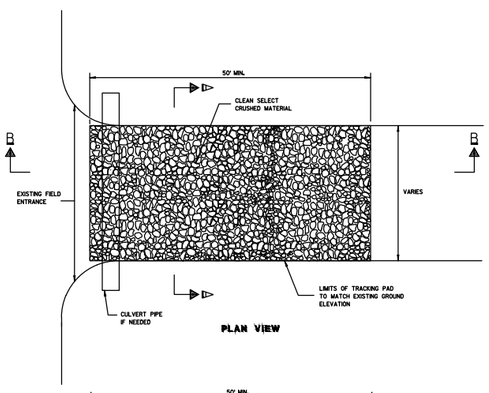
INLET PROTECTION TYPE A, B, C, AND D

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

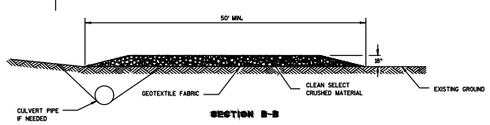
APPROVED 10-16-02 — /S/ Beth Cormastro
DATE — CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

S.D.D. 8 E 10-2

8E14: Tracking Pad



PLAN VIEW



SECTION B-B

TRACKING PAD

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

TRACKING PAD SHALL BE INSPECTED DAILY. DEFICIENT AREAS SHALL BE REPAIRED OR REPLACED IMMEDIATELY.

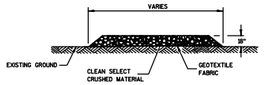
TRACKING PAD TO BE REMOVED AFTER CONSTRUCTION IS COMPLETED.

TRACKING PAD SHALL BE THE FULL WIDTH OF THE EGRESS POINT.

SURFACE WATER MUST BE PREVENTED FROM PASSING THROUGH THE TRACKING PAD. FLOWS SHALL BE DIVERTED AWAY, AROUND OR CONVEYED UNDER THE TRACKING PAD.

CULVERT PIPE OR OTHER BMP USED TO DIVERT WATER AWAY, AROUND OR UNDER THE TRACKING PAD SHALL BE DESIGNED TO CONVEY THE 2 YEAR - 24 HOUR EVENT.

THE COST OF ADDITIONAL BMP TO DIVERT WATER ARE INCIDENTAL TO THE TRACKING PAD BID ITEM.



SECTION A-A

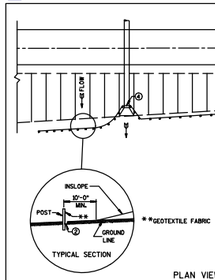
TRACKING PAD

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED 3-24-2011 — /S/ Jerry H. Zogg
DATE — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

S.D.D. 8 E 14-1

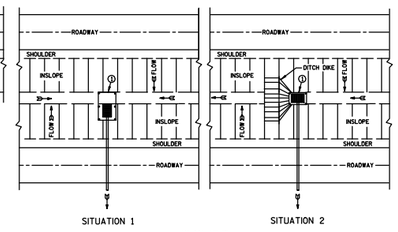
8E9: Silt Fence



TYPICAL SECTION

PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE



PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS

GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

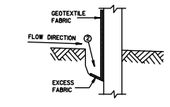
① HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.

② FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.

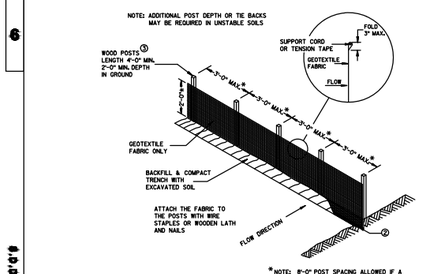
③ WOOD POSTS SHALL BE A MINIMUM SIZE OF 5½" X 5½" OF OAK OR HICKORY.

④ SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.

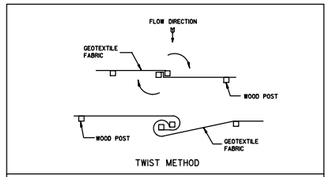
⑤ CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS: A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.



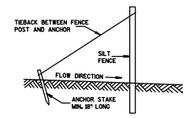
TRENCH DETAIL



SILT FENCE



JOINING TWO LENGTHS OF SILT FENCE ⑤



SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)

SILT FENCE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED 4-29-05 — /S/ Beth Cormastro
DATE — CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

S.D.D. 8 E 9-1

FEHR GRAHAM
ENGINEERING & ENVIRONMENTAL

ILLINOIS
IOWA
WISCONSIN

OWNER/DEVELOPER:
NEW GLARUS BREWING CO.
2400 WISCONSIN 69
NEW GLARUS, WI 53574

PROJECT AND LOCATION:
NEW GLARUS BREWING CO.
WAREHOUSE ADDITION
NEW GLARUS, WI

DRAWN BY: K.K.
APPROVED BY: J.D.
DATE: 02/17/23
SCALE: AS NOTED

REVISIONS

REV. NO.	DESCRIPTION	DATE

DRAWING: DETAILS

SET TYPE: REVIEW SET

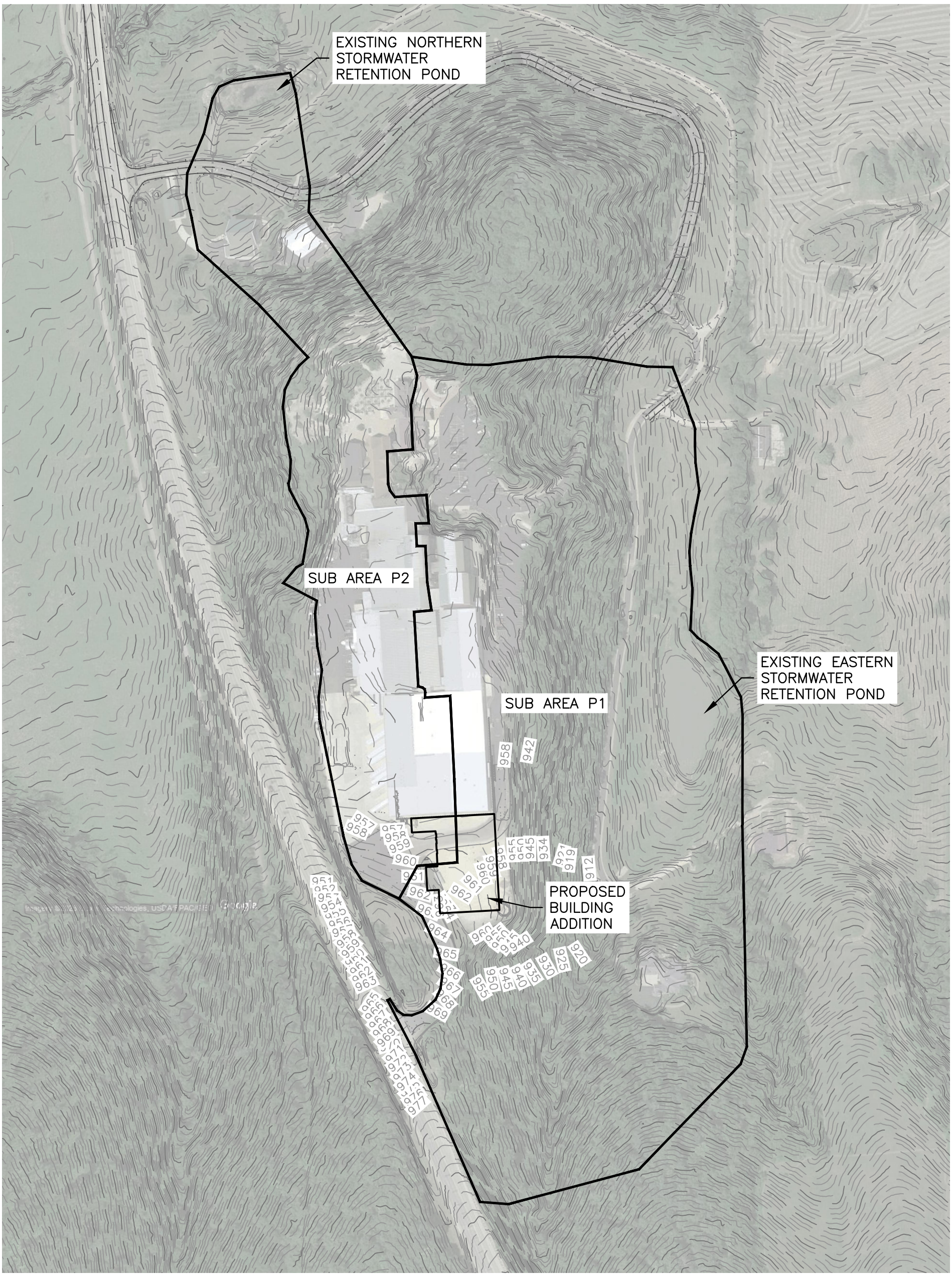
G:\C3D\22\22-821\Plans\22-821 PLANS.dwg, DETAILS (3)

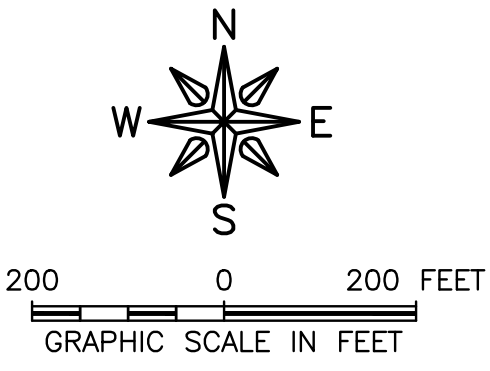
JOB NUMBER: 22-821

SHEET NUMBER: 12 of 12

PLOT DATE: 2/17/23

EXHIBIT B





DRAINAGE PLAN

NEW GLARUS BREWING CO.
WAREHOUSE ADDITION
NEW GLARUS, WI 53574

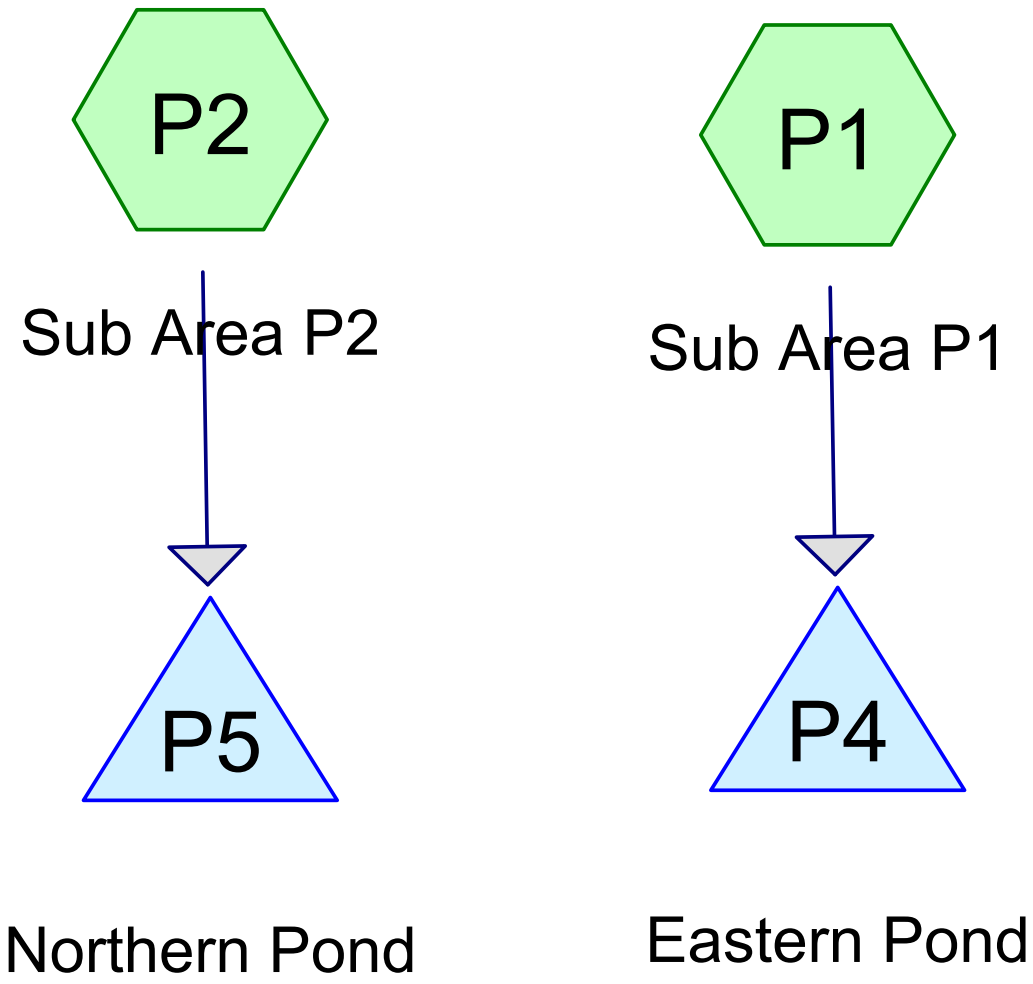
2/17/23

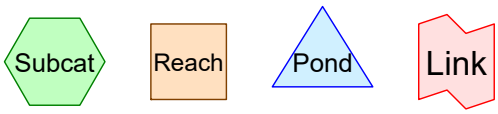
FEHR GRAHAM
ENGINEERING & ENVIRONMENTAL

ILLINOIS
IOWA
WISCONSIN

G:\C3D\22\22-821\22-821 Drainage Area Plan.dwg, Drainage Plan
PLOT DATE: 2/17/23

EXHIBIT C





Drainage Diagram for 22-821 Postdevelopment
Prepared by {enter your company name here}, Printed 2/15/2023
HydroCAD® 9.00 s/n 02024 © 2009 HydroCAD Software Solutions LLC

Area Listing (all nodes)

Area (acres)	CN	Description (subcatchment-numbers)
2.400	55	Woods (P2)
12.370	55	woods (P1)
0.520	61	Open Space (P2)
0.630	61	Open space (P1)
6.700	69	Cropland (P1, P2)
10.580	98	Impervious (P1, P2)
33.200		**TOTAL AREA**

Summary for Subcatchment P1: Sub Area P1

Runoff = 8.77 cfs @ 12.11 hrs, Volume= 0.779 af, Depth= 0.39"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 1-year Rainfall=2.50"

	Area (ac)	CN	Description
*	5.800	69	Cropland
*	12.370	55	woods
*	0.630	61	Open space
*	5.300	98	Impervious
	24.100	68	Weighted Average
	18.800		78.01% Pervious Area
	5.300		21.99% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
12.0	300	0.1500	0.42		**Sheet Flow,** Cultivated: Residue>20% n= 0.170 P2= 3.00"
3.4	1,000	0.1100	4.97		**Shallow Concentrated Flow,** Grassed Waterway Kv= 15.0 fps
15.4	1,300	Total			

Summary for Subcatchment P2: Sub Area P2

Runoff = 7.90 cfs @ 12.24 hrs, Volume= 0.757 af, Depth= 1.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 1-year Rainfall=2.50"

	Area (ac)	CN	Description
*	0.900	69	Cropland
*	2.400	55	Woods
*	0.520	61	Open Space
*	5.280	98	Impervious
	9.100	82	Weighted Average
	3.820		41.98% Pervious Area
	5.280		58.02% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
26.8	298	0.0200	0.19		**Sheet Flow,** Cultivated: Residue>20% n= 0.170 P2= 3.00"
1.6	550	0.1200	5.58		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
28.4	848	Total			

Summary for Pond P4: Eastern Pond

Inflow Area = 24.100 ac, 21.99% Impervious, Inflow Depth = 0.39" for 1-year event
Inflow = 8.77 cfs @ 12.11 hrs, Volume= 0.779 af
Outflow = 0.35 cfs @ 19.84 hrs, Volume= 0.475 af, Atten= 96%, Lag= 463.6 min
Primary = 0.35 cfs @ 19.84 hrs, Volume= 0.475 af

Routing by Stor-Ind method, Time Span= 1.00-30.00 hrs, dt= 0.05 hrs
Peak Elev= 887.86' @ 19.84 hrs Surf.Area= 25,125 sf Storage= 20,160 cf

Plug-Flow detention time= 494.6 min calculated for 0.475 af (61% of inflow)
Center-of-Mass det. time= 351.1 min (1,265.4 - 914.3)

Volume	Invert	Avail.Storage	Storage Description
#1	887.00'	123,252 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
887.00	21,846	0	0
888.00	25,666	23,756	23,756
889.00	30,403	28,035	51,791
890.00	35,942	33,173	84,963
891.00	40,635	38,289	123,252

Device	Routing	Invert	Outlet Devices
#1	Primary	885.00'	**24.0" Round Culvert** L= 50.0' RCP, end-section conforming to fill, Ke= 0.500 Outlet Invert= 884.50' S= 0.0100 '/' Cc= 0.900 n= 0.013 Concrete pipe, straight & clean
#2	Device 1	887.00'	**4.0" Vert. Orifice/Grate** C= 0.600
#3	Device 1	889.50'	**48.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=0.35 cfs @ 19.84 hrs HW=887.86' (Free Discharge)
└─**1=Culvert** (Passes 0.35 cfs of 20.17 cfs potential flow)
  ├─**2=Orifice/Grate** (Orifice Controls 0.35 cfs @ 4.00 fps)
  └─**3=Orifice/Grate** (Controls 0.00 cfs)

Summary for Pond P5: Northern Pond

Inflow Area = 9.100 ac, 58.02% Impervious, Inflow Depth = 1.00" for 1-year event
Inflow = 7.90 cfs @ 12.24 hrs, Volume= 0.757 af
Outflow = 0.23 cfs @ 20.13 hrs, Volume= 0.323 af, Atten= 97%, Lag= 473.4 min
Primary = 0.23 cfs @ 20.13 hrs, Volume= 0.323 af
Secondary = 0.00 cfs @ 1.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 1.00-30.00 hrs, dt= 0.05 hrs
Peak Elev= 864.01' @ 20.13 hrs Surf.Area= 13,659 sf Storage= 23,608 cf

Plug-Flow detention time= 535.3 min calculated for 0.323 af (43% of inflow)
Center-of-Mass det. time= 400.3 min (1,266.7 - 866.4)

Volume	Invert	Avail.Storage	Storage Description
#1	862.00'	70,789 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
862.00	9,873	0	0
863.00	11,707	10,790	10,790
864.00	13,637	12,672	23,462
865.00	15,672	14,655	38,117
867.00	17,000	32,672	70,789

Device	Routing	Invert	Outlet Devices
#1	Primary	858.50'	**24.0" Round Culvert** L= 50.0' RCP, end-section conforming to fill, Ke= 0.500 Outlet Invert= 858.00' S= 0.0100 '/' Cc= 0.900 n= 0.013 Concrete pipe, straight & clean
#2	Device 1	862.00'	**2.5" Vert. Orifice/Grate** C= 0.600
#3	Device 1	864.08'	**Special & User-Defined** Loss (feet) 0.00 0.10 0.25 0.50 0.75 1.00 1.50 2.00 3.00 4.00 Disch. (cfs) 0.000 0.800 2.200 3.700 4.600 5.300 6.500 7.500 9.200 10.600
#4	Secondary	865.75'	**25.0' long x 10.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 Coef. (English) 2.49 2.56 2.70 2.69 2.68 2.69 2.67 2.64

Primary OutFlow Max=0.23 cfs @ 20.13 hrs HW=864.01' (Free Discharge)
└─**1=Culvert** (Passes 0.23 cfs of 32.13 cfs potential flow)
  ├─**2=Orifice/Grate** (Orifice Controls 0.23 cfs @ 6.65 fps)
  └─**3=Special & User-Defined** (Controls 0.00 cfs)

Secondary OutFlow Max=0.00 cfs @ 1.00 hrs HW=862.00' (Free Discharge)
└─**4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Summary for Subcatchment P1: Sub Area P1

Runoff = 16.34 cfs @ 12.10 hrs, Volume= 1.258 af, Depth= 0.63"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 2-year Rainfall=3.00"

	Area (ac)	CN	Description
*	5.800	69	Cropland
*	12.370	55	woods
*	0.630	61	Open space
*	5.300	98	Impervious
	24.100	68	Weighted Average
	18.800		78.01% Pervious Area
	5.300		21.99% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
12.0	300	0.1500	0.42		**Sheet Flow,** Cultivated: Residue>20% n= 0.170 P2= 3.00"
3.4	1,000	0.1100	4.97		**Shallow Concentrated Flow,** Grassed Waterway Kv= 15.0 fps
15.4	1,300	Total			

Summary for Subcatchment P2: Sub Area P2

Runoff = 11.10 cfs @ 12.23 hrs, Volume= 1.046 af, Depth= 1.38"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 2-year Rainfall=3.00"

	Area (ac)	CN	Description
*	0.900	69	Cropland
*	2.400	55	Woods
*	0.520	61	Open Space
*	5.280	98	Impervious
	9.100	82	Weighted Average
	3.820		41.98% Pervious Area
	5.280		58.02% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
26.8	298	0.0200	0.19		**Sheet Flow,** Cultivated: Residue>20% n= 0.170 P2= 3.00"
1.6	550	0.1200	5.58		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
28.4	848	Total			

Summary for Pond P4: Eastern Pond

Inflow Area = 24.100 ac, 21.99% Impervious, Inflow Depth = 0.63" for 2-year event
Inflow = 16.34 cfs @ 12.10 hrs, Volume= 1.258 af
Outflow = 0.47 cfs @ 20.20 hrs, Volume= 0.663 af, Atten= 97%, Lag= 485.9 min
Primary = 0.47 cfs @ 20.20 hrs, Volume= 0.663 af

Routing by Stor-Ind method, Time Span= 1.00-30.00 hrs, dt= 0.05 hrs
Peak Elev= 888.44' @ 20.20 hrs Surf.Area= 27,749 sf Storage= 35,500 cf

Plug-Flow detention time= 523.2 min calculated for 0.662 af (53% of inflow)
Center-of-Mass det. time= 372.2 min (1,266.9 - 894.8)

Volume	Invert	Avail.Storage	Storage Description
#1	887.00'	123,252 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
887.00	21,846	0	0
888.00	25,666	23,756	23,756
889.00	30,403	28,035	51,791
890.00	35,942	33,173	84,963
891.00	40,635	38,289	123,252

Device	Routing	Invert	Outlet Devices
#1	Primary	885.00'	**24.0" Round Culvert** L= 50.0' RCP, end-section conforming to fill, Ke= 0.500 Outlet Invert= 884.50' S= 0.0100 '/' Cc= 0.900 n= 0.013 Concrete pipe, straight & clean
#2	Device 1	887.00'	**4.0" Vert. Orifice/Grate** C= 0.600
#3	Device 1	889.50'	**48.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=0.47 cfs @ 20.20 hrs HW=888.44' (Free Discharge)
└─**1=Culvert** (Passes 0.47 cfs of 23.63 cfs potential flow)
  ├─**2=Orifice/Grate** (Orifice Controls 0.47 cfs @ 5.43 fps)
  └─**3=Orifice/Grate** (Controls 0.00 cfs)

Summary for Pond P5: Northern Pond

Inflow Area = 9.100 ac, 58.02% Impervious, Inflow Depth = 1.38" for 2-year event
Inflow = 11.10 cfs @ 12.23 hrs, Volume= 1.046 af
Outflow = 1.17 cfs @ 13.55 hrs, Volume= 0.583 af, Atten= 90%, Lag= 79.1 min
Primary = 1.17 cfs @ 13.55 hrs, Volume= 0.583 af
Secondary = 0.00 cfs @ 1.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 1.00-30.00 hrs, dt= 0.05 hrs
Peak Elev= 864.19' @ 13.55 hrs Surf.Area= 14,031 sf Storage= 26,143 cf

Plug-Flow detention time= 387.4 min calculated for 0.583 af (56% of inflow)
Center-of-Mass det. time= 265.2 min (1,122.2 - 857.0)

Volume	Invert	Avail.Storage	Storage Description
#1	862.00'	70,789 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
862.00	9,873	0	0
863.00	11,707	10,790	10,790
864.00	13,637	12,672	23,462
865.00	15,672	14,655	38,117
867.00	17,000	32,672	70,789

Device	Routing	Invert	Outlet Devices
#1	Primary	858.50'	**24.0" Round Culvert** L= 50.0' RCP, end-section conforming to fill, Ke= 0.500 Outlet Invert= 858.00' S= 0.0100 '/' Cc= 0.900 n= 0.013 Concrete pipe, straight & clean
#2	Device 1	862.00'	**2.5" Vert. Orifice/Grate** C= 0.600
#3	Device 1	864.08'	**Special & User-Defined** Loss (feet) 0.00 0.10 0.25 0.50 0.75 1.00 1.50 2.00 3.00 4.00 Disch. (cfs) 0.000 0.800 2.200 3.700 4.600 5.300 6.500 7.500 9.200 10.600
#4	Secondary	865.75'	**25.0' long x 10.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 Coef. (English) 2.49 2.56 2.70 2.69 2.68 2.69 2.67 2.64

Primary OutFlow Max=1.17 cfs @ 13.55 hrs HW=864.19' (Free Discharge)
└─**1=Culvert** (Passes 1.17 cfs of 32.77 cfs potential flow)
  ├─**2=Orifice/Grate** (Orifice Controls 0.24 cfs @ 6.96 fps)
  └─**3=Special & User-Defined** (Custom Controls 0.93 cfs)

Secondary OutFlow Max=0.00 cfs @ 1.00 hrs HW=862.00' (Free Discharge)
└─**4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Summary for Subcatchment P1: Sub Area P1

Runoff = 30.88 cfs @ 12.09 hrs, Volume= 2.170 af, Depth= 1.08"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 5-year Rainfall=3.80"

	Area (ac)	CN	Description
*	5.800	69	Cropland
*	12.370	55	woods
*	0.630	61	Open space
*	5.300	98	Impervious
	24.100	68	Weighted Average
	18.800		78.01% Pervious Area
	5.300		21.99% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
12.0	300	0.1500	0.42		**Sheet Flow,** Cultivated: Residue>20% n= 0.170 P2= 3.00"
3.4	1,000	0.1100	4.97		**Shallow Concentrated Flow,** Grassed Waterway Kv= 15.0 fps
15.4	1,300	Total			

Summary for Subcatchment P2: Sub Area P2

Runoff = 16.59 cfs @ 12.22 hrs, Volume= 1.542 af, Depth= 2.03"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 5-year Rainfall=3.80"

	Area (ac)	CN	Description
*	0.900	69	Cropland
*	2.400	55	Woods
*	0.520	61	Open Space
*	5.280	98	Impervious
	9.100	82	Weighted Average
	3.820		41.98% Pervious Area
	5.280		58.02% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
26.8	298	0.0200	0.19		**Sheet Flow,** Cultivated: Residue>20% n= 0.170 P2= 3.00"
1.6	550	0.1200	5.58		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
28.4	848	Total			

Summary for Pond P4: Eastern Pond

Inflow Area = 24.100 ac, 21.99% Impervious, Inflow Depth = 1.08" for 5-year event
Inflow = 30.88 cfs @ 12.09 hrs, Volume= 2.170 af
Outflow = 0.64 cfs @ 23.45 hrs, Volume= 0.912 af, Atten= 98%, Lag= 681.5 min
Primary = 0.64 cfs @ 23.45 hrs, Volume= 0.912 af

Routing by Stor-Ind method, Time Span= 1.00-30.00 hrs, dt= 0.05 hrs
Peak Elev= 889.50' @ 23.45 hrs Surf.Area= 33,152 sf Storage= 67,562 cf

Plug-Flow detention time= 541.3 min calculated for 0.912 af (42% of inflow)
Center-of-Mass det. time= 392.7 min (1,268.3 - 875.5)

Volume	Invert	Avail.Storage	Storage Description
#1	887.00'	123,252 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
887.00	21,846	0	0
888.00	25,666	23,756	23,756
889.00	30,403	28,035	51,791
890.00	35,942	33,173	84,963
891.00	40,635	38,289	123,252

Device	Routing	Invert	Outlet Devices
#1	Primary	885.00'	**24.0" Round Culvert** L= 50.0' RCP, end-section conforming to fill, Ke= 0.500 Outlet Invert= 884.50' S= 0.0100 '/' Cc= 0.900 n= 0.013 Concrete pipe, straight & clean
#2	Device 1	887.00'	**4.0" Vert. Orifice/Grate** C= 0.600
#3	Device 1	889.50'	**48.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=0.64 cfs @ 23.45 hrs HW=889.50' (Free Discharge)
└─**1=Culvert** (Passes 0.64 cfs of 28.28 cfs potential flow)
  ├─**2=Orifice/Grate** (Orifice Controls 0.64 cfs @ 7.35 fps)
  └─**3=Orifice/Grate** (Controls 0.00 cfs)

Summary for Pond P5: Northern Pond

Inflow Area = 9.100 ac, 58.02% Impervious, Inflow Depth = 2.03" for 5-year event
Inflow = 16.59 cfs @ 12.22 hrs, Volume= 1.542 af
Outflow = 4.06 cfs @ 12.81 hrs, Volume= 1.076 af, Atten= 76%, Lag= 34.9 min
Primary = 4.06 cfs @ 12.81 hrs, Volume= 1.076 af
Secondary = 0.00 cfs @ 1.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 1.00-30.00 hrs, dt= 0.05 hrs
Peak Elev= 864.61' @ 12.81 hrs Surf.Area= 14,874 sf Storage= 32,125 cf

Plug-Flow detention time= 262.9 min calculated for 1.076 af (70% of inflow)
Center-of-Mass det. time= 159.4 min (1,005.2 - 845.8)

Volume	Invert	Avail.Storage	Storage Description
#1	862.00'	70,789 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
862.00	9,873	0	0
863.00	11,707	10,790	10,790
864.00	13,637	12,672	23,462
865.00	15,672	14,655	38,117
867.00	17,000	32,672	70,789

Device	Routing	Invert	Outlet Devices
#1	Primary	858.50'	**24.0" Round Culvert** L= 50.0' RCP, end-section conforming to fill, Ke= 0.500 Outlet Invert= 858.00' S= 0.0100 '/' Cc= 0.900 n= 0.013 Concrete pipe, straight & clean
#2	Device 1	862.00'	**2.5" Vert. Orifice/Grate** C= 0.600
#3	Device 1	864.08'	**Special & User-Defined** Loss (feet) 0.00 0.10 0.25 0.50 0.75 1.00 1.50 2.00 3.00 4.00 Disch. (cfs) 0.000 0.800 2.200 3.700 4.600 5.300 6.500 7.500 9.200 10.600
#4	Secondary	865.75'	**25.0' long x 10.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 Coef. (English) 2.49 2.56 2.70 2.69 2.68 2.69 2.67 2.64

Primary OutFlow Max=4.06 cfs @ 12.81 hrs HW=864.61' (Free Discharge)
└─**1=Culvert** (Passes 4.06 cfs of 34.19 cfs potential flow)
  ├─**2=Orifice/Grate** (Orifice Controls 0.26 cfs @ 7.62 fps)
  └─**3=Special & User-Defined** (Custom Controls 3.80 cfs)

Secondary OutFlow Max=0.00 cfs @ 1.00 hrs HW=862.00' (Free Discharge)
└─**4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Summary for Subcatchment P1: Sub Area P1

Runoff = 41.02 cfs @ 12.09 hrs, Volume= 2.809 af, Depth= 1.40"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10-year Rainfall=4.30"

	Area (ac)	CN	Description
*	5.800	69	Cropland
*	12.370	55	woods
*	0.630	61	Open space
*	5.300	98	Impervious
	24.100	68	Weighted Average
	18.800		78.01% Pervious Area
	5.300		21.99% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
12.0	300	0.1500	0.42		**Sheet Flow,** Cultivated: Residue>20% n= 0.170 P2= 3.00"
3.4	1,000	0.1100	4.97		**Shallow Concentrated Flow,** Grassed Waterway Kv= 15.0 fps
15.4	1,300	Total			

Summary for Subcatchment P2: Sub Area P2

Runoff = 20.12 cfs @ 12.22 hrs, Volume= 1.867 af, Depth= 2.46"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10-year Rainfall=4.30"

	Area (ac)	CN	Description
*	0.900	69	Cropland
*	2.400	55	Woods
*	0.520	61	Open Space
*	5.280	98	Impervious
	9.100	82	Weighted Average
	3.820		41.98% Pervious Area
	5.280		58.02% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
26.8	298	0.0200	0.19		**Sheet Flow,** Cultivated: Residue>20% n= 0.170 P2= 3.00"
1.6	550	0.1200	5.58		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
28.4	848	Total			

Summary for Pond P4: Eastern Pond

Inflow Area = 24.100 ac, 21.99% Impervious, Inflow Depth = 1.40" for 10-year event
Inflow = 41.02 cfs @ 12.09 hrs, Volume= 2.809 af
Outflow = 2.28 cfs @ 14.26 hrs, Volume= 1.535 af, Atten= 94%, Lag= 130.5 min
Primary = 2.28 cfs @ 14.26 hrs, Volume= 1.535 af

Routing by Stor-Ind method, Time Span= 1.00-30.00 hrs, dt= 0.05 hrs
Peak Elev= 889.61' @ 14.26 hrs Surf.Area= 33,809 sf Storage= 71,533 cf

Plug-Flow detention time= 427.0 min calculated for 1.532 af (55% of inflow)
Center-of-Mass det. time= 293.2 min (1,160.5 - 867.2)

Volume	Invert	Avail.Storage	Storage Description
#1	887.00'	123,252 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
887.00	21,846	0	0
888.00	25,666	23,756	23,756
889.00	30,403	28,035	51,791
890.00	35,942	33,173	84,963
891.00	40,635	38,289	123,252

Device	Routing	Invert	Outlet Devices
#1	Primary	885.00'	**24.0" Round Culvert** L= 50.0' RCP, end-section conforming to fill, Ke= 0.500 Outlet Invert= 884.50' S= 0.0100 '/' Cc= 0.900 n= 0.013 Concrete pipe, straight & clean
#2	Device 1	887.00'	**4.0" Vert. Orifice/Grate** C= 0.600
#3	Device 1	889.50'	**48.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=2.26 cfs @ 14.26 hrs HW=889.61' (Free Discharge)
└─**1=Culvert** (Passes 2.26 cfs of 28.76 cfs potential flow)
  ├─**2=Orifice/Grate** (Orifice Controls 0.66 cfs @ 7.53 fps)
  └─**3=Orifice/Grate** (Weir Controls 1.60 cfs @ 1.11 fps)

Summary for Pond P5: Northern Pond

Inflow Area = 9.100 ac, 58.02% Impervious, Inflow Depth = 2.46" for 10-year event
Inflow = 20.12 cfs @ 12.22 hrs, Volume= 1.867 af
Outflow = 5.28 cfs @ 12.77 hrs, Volume= 1.400 af, Atten= 74%, Lag= 32.7 min
Primary = 5.28 cfs @ 12.77 hrs, Volume= 1.400 af
Secondary = 0.00 cfs @ 1.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 1.00-30.00 hrs, dt= 0.05 hrs
Peak Elev= 864.97' @ 12.77 hrs Surf.Area= 15,615 sf Storage= 37,678 cf

Plug-Flow detention time= 226.1 min calculated for 1.397 af (75% of inflow)
Center-of-Mass det. time= 133.5 min (973.9 - 840.4)

Volume	Invert	Avail.Storage	Storage Description
#1	862.00'	70,789 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
862.00	9,873	0	0
863.00	11,707	10,790	10,790
864.00	13,637	12,672	23,462
865.00	15,672	14,655	38,117
867.00	17,000	32,672	70,789

Device	Routing	Invert	Outlet Devices
#1	Primary	858.50'	**24.0" Round Culvert** L= 50.0' RCP, end-section conforming to fill, Ke= 0.500 Outlet Invert= 858.00' S= 0.0100 '/' Cc= 0.900 n= 0.013 Concrete pipe, straight & clean
#2	Device 1	862.00'	**2.5" Vert. Orifice/Grate** C= 0.600
#3	Device 1	864.08'	**Special & User-Defined** Loss (feet) 0.00 0.10 0.25 0.50 0.75 1.00 1.50 2.00 3.00 4.00 Disch. (cfs) 0.000 0.800 2.200 3.700 4.600 5.300 6.500 7.500 9.200 10.600
#4	Secondary	865.75'	**25.0' long x 10.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 Coef. (English) 2.49 2.56 2.70 2.69 2.68 2.69 2.67 2.64

Primary OutFlow Max=5.27 cfs @ 12.77 hrs HW=864.97' (Free Discharge)
└─**1=Culvert** (Passes 5.27 cfs of 35.38 cfs potential flow)
  ├─**2=Orifice/Grate** (Orifice Controls 0.28 cfs @ 8.15 fps)
  └─**3=Special & User-Defined** (Custom Controls 5.00 cfs)

Secondary OutFlow Max=0.00 cfs @ 1.00 hrs HW=862.00' (Free Discharge)
└─**4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Summary for Subcatchment P1: Sub Area P1

Runoff = 56.23 cfs @ 12.08 hrs, Volume= 3.775 af, Depth= 1.88"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 25-year Rainfall=5.00"

	Area (ac)	CN	Description
*	5.800	69	Cropland
*	12.370	55	woods
*	0.630	61	Open space
*	5.300	98	Impervious
	24.100	68	Weighted Average
	18.800		78.01% Pervious Area
	5.300		21.99% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
12.0	300	0.1500	0.42		**Sheet Flow,** Cultivated: Residue>20% n= 0.170 P2= 3.00"
3.4	1,000	0.1100	4.97		**Shallow Concentrated Flow,** Grassed Waterway Kv= 15.0 fps
15.4	1,300	Total			

Summary for Subcatchment P2: Sub Area P2

Runoff = 25.17 cfs @ 12.22 hrs, Volume= 2.335 af, Depth= 3.08"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 25-year Rainfall=5.00"

	Area (ac)	CN	Description
*	0.900	69	Cropland
*	2.400	55	Woods
*	0.520	61	Open Space
*	5.280	98	Impervious
	9.100	82	Weighted Average
	3.820		41.98% Pervious Area
	5.280		58.02% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
26.8	298	0.0200	0.19		**Sheet Flow,** Cultivated: Residue>20% n= 0.170 P2= 3.00"
1.6	550	0.1200	5.58		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
28.4	848	Total			

Summary for Pond P4: Eastern Pond

Inflow Area = 24.100 ac, 21.99% Impervious, Inflow Depth = 1.88" for 25-year event
Inflow = 56.23 cfs @ 12.08 hrs, Volume= 3.775 af
Outflow = 7.57 cfs @ 12.69 hrs, Volume= 2.492 af, Atten= 87%, Lag= 36.5 min
Primary = 7.57 cfs @ 12.69 hrs, Volume= 2.492 af

Routing by Stor-Ind method, Time Span= 1.00-30.00 hrs, dt= 0.05 hrs
Peak Elev= 889.80' @ 12.69 hrs Surf.Area= 34,856 sf Storage= 78,020 cf

Plug-Flow detention time= 308.6 min calculated for 2.488 af (66% of inflow)
Center-of-Mass det. time= 192.7 min (1,050.9 - 858.2)

Volume	Invert	Avail.Storage	Storage Description
#1	887.00'	123,252 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
887.00	21,846	0	0
888.00	25,666	23,756	23,756
889.00	30,403	28,035	51,791
890.00	35,942	33,173	84,963
891.00	40,635	38,289	123,252

Device	Routing	Invert	Outlet Devices
#1	Primary	885.00'	**24.0" Round Culvert** L= 50.0' RCP, end-section conforming to fill, Ke= 0.500 Outlet Invert= 884.50' S= 0.0100 '/' Cc= 0.900 n= 0.013 Concrete pipe, straight & clean
#2	Device 1	887.00'	**4.0" Vert. Orifice/Grate** C= 0.600
#3	Device 1	889.50'	**48.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=7.56 cfs @ 12.69 hrs HW=889.80' (Free Discharge)
└─**1=Culvert** (Passes 7.56 cfs of 29.50 cfs potential flow)
  ├─**2=Orifice/Grate** (Orifice Controls 0.68 cfs @ 7.82 fps)
  └─**3=Orifice/Grate** (Weir Controls 6.88 cfs @ 1.80 fps)

Summary for Pond P5: Northern Pond

Inflow Area = 9.100 ac, 58.02% Impervious, Inflow Depth = 3.08" for 25-year event
Inflow = 25.17 cfs @ 12.22 hrs, Volume= 2.335 af
Outflow = 6.70 cfs @ 12.75 hrs, Volume= 1.866 af, Atten= 73%, Lag= 32.0 min
Primary = 6.70 cfs @ 12.75 hrs, Volume= 1.866 af
Secondary = 0.00 cfs @ 1.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 1.00-30.00 hrs, dt= 0.05 hrs
Peak Elev= 865.54' @ 12.75 hrs Surf.Area= 16,029 sf Storage= 46,643 cf

Plug-Flow detention time= 198.4 min calculated for 1.866 af (80% of inflow)
Center-of-Mass det. time= 116.0 min (949.9 - 834.0)

Volume	Invert	Avail.Storage	Storage Description
#1	862.00'	70,789 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
862.00	9,873	0	0
863.00	11,707	10,790	10,790
864.00	13,637	12,672	23,462
865.00	15,672	14,655	38,117
867.00	17,000	32,672	70,789

Device	Routing	Invert	Outlet Devices
#1	Primary	858.50'	**24.0" Round Culvert** L= 50.0' RCP, end-section conforming to fill, Ke= 0.500 Outlet Invert= 858.00' S= 0.0100 '/' Cc= 0.900 n= 0.013 Concrete pipe, straight & clean
#2	Device 1	862.00'	**2.5" Vert. Orifice/Grate** C= 0.600
#3	Device 1	864.08'	**Special & User-Defined** Loss (feet) 0.00 0.10 0.25 0.50 0.75 1.00 1.50 2.00 3.00 4.00 Disch. (cfs) 0.000 0.800 2.200 3.700 4.600 5.300 6.500 7.500 9.200 10.600
#4	Secondary	865.75'	**25.0' long x 10.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 Coef. (English) 2.49 2.56 2.70 2.69 2.68 2.69 2.67 2.64

Primary OutFlow Max=6.70 cfs @ 12.75 hrs HW=865.54' (Free Discharge)
└─**1=Culvert** (Passes 6.70 cfs of 37.17 cfs potential flow)
  ├─**2=Orifice/Grate** (Orifice Controls 0.30 cfs @ 8.92 fps)
  └─**3=Special & User-Defined** (Custom Controls 6.40 cfs)

Secondary OutFlow Max=0.00 cfs @ 1.00 hrs HW=862.00' (Free Discharge)
└─**4=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Summary for Subcatchment P1: Sub Area P1

Runoff = 84.27 cfs @ 12.08 hrs, Volume= 5.574 af, Depth= 2.78"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 100-year Rainfall=6.20"

	Area (ac)	CN	Description
*	5.800	69	Cropland
*	12.370	55	woods
*	0.630	61	Open space
*	5.300	98	Impervious
	24.100	68	Weighted Average
	18.800		78.01% Pervious Area
	5.300		21.99% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
12.0	300	0.1500	0.42		**Sheet Flow,** Cultivated: Residue>20% n= 0.170 P2= 3.00"
3.4	1,000	0.1100	4.97		**Shallow Concentrated Flow,** Grassed Waterway Kv= 15.0 fps
15.4	1,300	Total			

Summary for Subcatchment P2: Sub Area P2

Runoff = 33.95 cfs @ 12.22 hrs, Volume= 3.163 af, Depth= 4.17"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 1.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 100-year Rainfall=6.20"

	Area (ac)	CN	Description
*	0.900	69	Cropland
*	2.400	55	Woods
*	0.520	61	Open Space
*	5.280	98	Impervious
	9.100	82	Weighted Average
	3.820		41.98% Pervious Area
	5.280		58.02% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
26.8	298	0.0200	0.19		**Sheet Flow,** Cultivated: Residue>20% n= 0.170 P2= 3.00"
1.6	550	0.1200	5.58		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
28.4	848	Total			

Summary for Pond P4: Eastern Pond

Inflow Area = 24.100 ac, 21.99% Impervious, Inflow Depth = 2.78" for 100-year event
Inflow = 84.27 cfs @ 12.08 hrs, Volume= 5.574 af
Outflow = 29.88 cfs @ 12.32 hrs, Volume= 4.280 af, Atten= 65%, Lag= 14.5 min
Primary = 29.88 cfs @ 12.32 hrs, Volume= 4.280 af

Routing by Stor-Ind method, Time Span= 1.00-30.00 hrs, dt= 0.05 hrs
Peak Elev= 890.30' @ 12.32 hrs Surf.Area= 37,327 sf Storage= 95,777 cf

Plug-Flow detention time= 212.6 min calculated for 4.280 af (77% of inflow)
Center-of-Mass det. time= 119.2 min (966.0 - 846.7)

Volume	Invert	Avail.Storage	Storage Description
#1	887.00'	123,252 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
887.00	21,846	0	0
888.00	25,666	23,756	23,756
889.00	30,403	28,035	51,791
890.00	35,942	33,173	84,963
891.00	40,635	38,289	123,252

Device	Routing	Invert	Outlet Devices
#1	Primary	885.00'	**24.0" Round Culvert** L= 50.0' RCP, end-section conforming to fill, Ke= 0.500 Outlet Invert= 884.50' S= 0.0100 '/' Cc= 0.900 n= 0.013 Concrete pipe, straight & clean
#2	Device 1	887.00'	**4.0" Vert. Orifice/Grate** C= 0.600
#3	Device 1	889.50'	**48.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=29.59 cfs @ 12.32 hrs HW=890.29' (Free Discharge)
└─**1=Culvert** (Passes 29.59 cfs of 31.33 cfs potential flow)
  ├─**2=Orifice/Grate** (Orifice Controls 0.74 cfs @ 8.51 fps)
  └─**3=Orifice/Grate** (Weir Controls 28.85 cfs @ 2.91 fps)

Summary for Pond P5: Northern Pond

Inflow Area = 9.100 ac, 58.02% Impervious, Inflow Depth = 4.17" for 100-year event
Inflow = 33.95 cfs @ 12.22 hrs, Volume= 3.163 af
Outflow = 19.61 cfs @ 12.47 hrs, Volume= 2.693 af, Atten= 42%, Lag= 15.4 min
Primary = 7.82 cfs @ 12.47 hrs, Volume= 2.373 af
Secondary = 11.79 cfs @ 12.47 hrs, Volume= 0.320 af

Routing by Stor-Ind method, Time Span= 1.00-30.00 hrs, dt= 0.05 hrs
Peak Elev= 866.08' @ 12.47 hrs Surf.Area= 16,387 sf Storage= 55,367 cf

Plug-Flow detention time= 161.7 min calculated for 2.688 af (85% of inflow)
Center-of-Mass det. time= 94.9 min (920.2 - 825.3)

Volume	Invert	Avail.Storage	Storage Description
#1	862.00'	70,789 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
862.00	9,873	0	0
863.00	11,707	10,790	10,790
864.00	13,637	12,672	23,462
865.00	15,672	14,655	38,117
867.00	17,000	32,672	70,789

Device	Routing	Invert	Outlet Devices
#1	Primary	858.50'	**24.0" Round Culvert** L= 50.0' RCP, end-section conforming to fill, Ke= 0.500 Outlet Invert= 858.00' S= 0.0100 '/' Cc= 0.900 n= 0.013 Concrete pipe, straight & clean
#2	Device 1	862.00'	**2.5" Vert. Orifice/Grate** C= 0.600
#3	Device 1	864.08'	**Special & User-Defined** Loss (feet) 0.00 0.10 0.25 0.50 0.75 1.00 1.50 2.00 3.00 4.00 Disch. (cfs) 0.000 0.800 2.200 3.700 4.600 5.300 6.500 7.500 9.200 10.600
#4	Secondary	865.75'	**25.0' long x 10.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 Coef. (English) 2.49 2.56 2.70 2.69 2.68 2.69 2.67 2.64

Primary OutFlow Max=7.81 cfs @ 12.47 hrs HW=866.07' (Free Discharge)
└─**1=Culvert** (Passes 7.81 cfs of 38.77 cfs potential flow)
  ├─**2=Orifice/Grate** (Orifice Controls 0.33 cfs @ 9.59 fps)
  └─**3=Special & User-Defined** (Custom Controls 7.48 cfs)

Secondary OutFlow Max=11.44 cfs @ 12.47 hrs HW=866.07' (Free Discharge)
└─**4=Broad-Crested Rectangular Weir** (Weir Controls 11.44 cfs @ 1.43 fps)

EXHIBIT D

North Pond

Stoke's Law

80% trapping efficiency requires 5-micron particle to be detained

Per DNR standard 1001 (Wet Detention Pond), average **velocity** required to trap 5-micron particle **(v) = 1.91E-05 fps**

Peak **Depth** of detention basin during 1-year storm event **(D) = 2.01 ft**

Peak **Volume** of storage of detention basin during 1-year storm event **(V) = 23,608 cf**

Time required to settle 5-micron particle **(T) =** $\frac{D}{v}$ **= 105,236 sec**

Allowable discharge to settle the 5-micron particle **(Q_{ALLOW}) =** $\frac{V}{T}$ **= 0.22 cfs**

Detention basin peak outflow during 1-year storm event **(Q_{ACTUAL}) = 0.23 cfs**

Q_{ACTUAL} = Q_{ALLOW} Basin provides 80% efficiency for TSS reduction

East Pond

Stoke's Law

80% trapping efficiency requires 5-micron particle to be detained

Per DNR standard 1001 (Wet Detention Pond), average **velocity** required to trap 5-micron particle **(v) = 1.91E-05 fps**

Peak **Depth** of detention basin during 1-year storm event **(D) = 0.86 ft**

Peak **Volume** of storage of detention basin during 1-year storm event **(V) = 20,160 cf**

Time required to settle 5-micron particle **(T) =** $\frac{D}{v}$ **= 45,026 sec**

Allowable discharge to settle the 5-micron particle **(Q_{ALLOW}) =** $\frac{V}{T}$ **= 0.45 cfs**

Detention basin peak outflow during 1-year storm event **(Q_{ACTUAL}) = 0.35 cfs**

$Q_{ACTUAL} < Q_{ALLOW}$ Basin provides 80% efficiency for TSS reduction

EXHIBIT E

EXISTING BUILDING
FFE = 960.12

PROPOSED DOCK
FFE = 960.62

PROPOSED BUILDING EXPANSION
FFE = 960.12

INITIAL 197' @ 3.0%

INITIAL 209' @ 3.3%

FINAL 148' @ 6.1%

INLET PROTECTION

PROPERTY LINE

TRACKING PAD

SILT FENCE

ACCESS DRIVEWAY

SEEDING AND RESTORATION

MEDIUM DUTY RIP RAP
WITH TYPE HR FABRIC

EROSION MAT
URBAN TYPE B

LOT LINE

CONCRETE WASHOUT

EXISTING
ACCESS DRIVEWAY

STH 69

BM1

BM2

BM4

BM1 = CAPPED REBAR (CP1)
N-206928.72, E-614137.37, ELEV-965.22

BM2 = CAPPED REBAR (CP2)
N-207027.30, E-613941.43, ELEV-969.23

BM3 = CAPPED REBAR (CP3)
N-206726.04, E-614052.13, ELEV-971.32

BM4 = CAPPED REBAR (CP4)
N-207196.73, E-614243.67, ELEV-956.29

N
W E
S

20 0 20 40 60 FEET

FEHR GRAHAM
ENGINEERING & ENVIRONMENTAL

ILLINOIS
IOWA
WISCONSIN

OWNER/DEVELOPER:
NEW GLARUS BREWING CO.
2400 WISCONSIN 69
NEW GLARUS, WI 53574

PROJECT AND LOCATION:
NEW GLARUS BREWING CO.
WAREHOUSE ADDITION
NEW GLARUS, WI

DRAWN BY: K.K.
APPROVED BY: J.D.
DATE: 02/10/23
SCALE: AS NOTED

REVISIONS

REV. NO.	DESCRIPTION	DATE

DRAWING:
EROSION CONTROL PLAN

SET TYPE:
M:\C3D\22\22-821\Plans\22-821 PLANS.dwg, EROSION

JOB NUMBER:
22-821

SHEET NUMBER:
9 of 12

PLOT DATE: 2/10/23

Soil Loss & Sediment Discharge Calculation Tool

for use on Construction Sites in the State of Wisconsin

WDNR Official Version 1.0 (05-15-2015)

WISCONSIN DEPT. OF NATURAL RESOURCES

YEAR 1

Developer: New Glarus Brewing Company

Project: Warehouse Addition

Date: 2/17/2023

County: Green

Version 1.0

Activity	Begin Date	End Date	Period % R	Annual R Factor	Sub Soil Texture	Soil Erodibility K Factor	Slope (%)	Slope Length (feet)	LS Factor	Land Cover C Factor	Soil loss A (tons/acre)	Sediment Control Practice	Sediment Discharge (tons/acre)
Bare Ground	4/17/2023	5/24/2023	10.8%	160	Sand	0.15	3.3%	209	0.44	1.00	1.1	Silt Fence	0.6
Bare Ground	5/24/2023	6/26/2023	18.4%	160	Sand	0.15	6.1%	158	0.87	1.00	3.8	Silt Fence	2.1
Seed with Mulch or Er	6/26/2023	8/26/2023	41.6%	160	Sand	0.15	6.1%	158	0.87	0.10	0.9	Silt Fence	0.0
End	8/26/2023	-----	-----	-----	-------	-----			-----	------	-----		0.0
		-----	-----	-----	-------	-----			-----	-----	-----		0.0
		-----	-----	-----	-------	-----			-----	-----	-----		0.0
										TOTAL	**5.8**	**TOTAL**	**2.7**
												% Reduction Required	**NONE**

Notes:

See Help Page for further descriptions of variables and items in drop-down boxes.
The last land disturbing activity on each sheet must be 'End'. This is either 12 months from the start of construction or final stabilization.
For periods of construction that exceed 12 months, please demonstrate that 5 tons/acre/year is not exceeded in any given 12 month period.

NOTE: THIS TOOL ONLY ADDRESSED SOIL EROSION DUE TO SHEET FLOW. MEASURES TO CONTROL CHANNEL EROSION MAY ALSO BE REQUIRED TO MEET SEDIMENT DISCHARGE REQUIREMENTS.

Recommended Permanent Seeding Dates:

4/1-5/15	and	8/7-8/29	Turf, introduced grasses and legumes
Thaw-6/30			Native Grasses, forbs, and legumes

Designed By:	Jesse Duff
Date	2/17/2023