



A G E N D A
CITY OF WAUPUN BOARD OF PUBLIC WORKS
Waupun City Hall – 201 E. Main Street, Waupun WI
Tuesday, January 14, 2025 at 4:30 PM

The City of Waupun Board of Public Works and Facilities Committee will meet in-person, virtually and teleconference. Instructions to join the meeting are provided below:

Virtual: <https://us02web.zoom.us/j/84598147665?pwd=WUVVVV5aRblypekBM06muDVj6LYMsmi.1>

Meeting ID: 845 9814 7665

Passcode: 920022

Phone: 312 626 6799 US (Chicago)

CALL TO ORDER

ROLL CALL

PERSONS WISHING TO ADDRESS THE BOARD OF PUBLIC WORKS--*State name, address, and subject of comments.*
(2 Minutes)

No Public Participation after this point.

FUTURE MEETINGS AND GATHERING INVOLVING THE BOARD OF PUBLIC WORKS

1. Next Regularly Scheduled Meeting of Board of Public Works is February 11, 2025, 4:30 pm, Waupun City Hall

CONSIDERATION - ACTION

2. Approve Minutes from November 12, 2024 Board of Public Works Meeting
3. Approve 5-Year Street Plan for 2025-2029
4. Approve Purchase of 2025 Chevrolet 2500 HD 4WD Truck
5. Approve Purchase of Snowplow for New 2025 ¾ Ton Pickup Truck
6. Approve and Recommend Agreement to Raze and Remove Former McCune Beach Bath House
7. Discuss Newton Ave and Rock Ave Preliminary Plan
8. Recommend Naming of 510 E Spring Street
9. Recommend Naming of 510 E Spring Street
10. Winter Salt Awareness Week January 27-31 Proclamation

ADJOURNMENT

Upon reasonable notice, efforts will be made to accommodate disabled individuals through appropriate aids and services. For additional information, contact the City Clerk at 920-324-7915.

Tuesday, October 5, 2024 – City Council Chambers

CALL TO ORDER

Chairman Matoushek called the meeting to order at 4:32pm

ROLL CALL

Alderspersons: Peter Kaczmarek, Kambria Ledesma, Mike Matoushek

Citizens: Dale Heeringa, Andrew Sullivan, Dave Rens, Gregg Zonnefeld

Ex-Officio: DPW Director Jeff Daane, City Administrator Kathy Schlieve

Additional Attendees: Mayor Rohn Bishop, Jaedon Buchholz

FUTURE MEETINGS AND GATHERING INVOLVING THE BOARD OF PUBLIC WORKS

1. Next Meeting: December 10, 2024, 4:30 p.m. Common Council Chambers, Waupun City Hall

PRIOR MEETING MINUTES

2. Approve Minutes from October 8, 2024 Board of Public Works – Motion by Sullivan, seconded by Heeringa. Motion passes unanimously.

CONSIDERATION - ACTION

3. Public Emergency Declaration City Facility Roofs Damaged during Hailstorm – Daane presents. Contractor is looking to begin in the next few weeks. It appears the deductible will be waived due to the size of the claim. Motion by Zonnefeld, seconded by Rens to approve the resolution declaring a public emergency for the City roofs damaged during the May 2024 Hailstorm as presented, and recommend approval of repairs to the Common Council under emergency order. Motion passes unanimously.
4. Recommend Approval of MSA Agreement for Alley Reconstruction Project (N. Mill St. to N. Madison St.) – Daane presents. Main St is so busy that most businesses are utilizing their back entrances more than ever before. The failing blacktop and hanging wires are an eyesore and could become problematic. Some designs are in the works on how to maximize the potential of the space and beautify the area. A listening session with MSA is on the horizon. Motion by Ledesma, seconded by Heeringa to recommend approval of the MSA agreement for the Alley Reconstruction project N Mill St to N Madison to the Common Council as presented. Motion passes unanimously.
5. Recommend Approval of MSA Agreement for Newton & Rock Avenue Reconstruction Project (Phase #2) – Daane presents. The west side has no storm sewer at all. This would add necessary infrastructure to keep the water off the street. Motion by Rens, seconded by Sullivan to recommend approval of the

MSA Newton and Rock Avenue Reconstruction project phase 2 agreement to the Common Council as presented. Motion passes unanimously.

6. Recommend Approval of Estimate with All Phase, LLC to Rebuild the Aquatic Center Pool Heater – Daane presents. It was recommended to Daane that replacing the heat exchanger and the broken bricks while fix our problem at a large cost savings to the City. Motion by Zonnefeld, seconded by Sullivan to recommend approval of the All-Phase repair quote for \$39,859 to rebuild the existing boiler with the new fire brick, burners and heat exchanger as presented. Funds for the project have been allocated in the 2025 capital improvement budget.

ADJOURNMENT

Motion by Heeringa, seconded by Rens. Motion passes unanimously.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "Kambria Ledesma". The signature is fluid and cursive, with a long horizontal flourish extending to the right.

Kambria Ledesma, Clerk
City of Waupun



AGENDA SUMMARY SHEET

MEETING DATE: 1/14/25

TITLE: Approve 5-Year Street Plan for 2025-2029

AGENDA SECTION: CONSIDERATION-ACTION

PRESENTER: Jeff Daane, Public Works Director

DEPARTMENT GOAL(S) SUPPORTED <i>(if applicable)</i>	FISCAL IMPACT	
High Performance Government	2025 street projects are budgeted for	

ISSUE SUMMARY:

Each year we work with Utilities to make sure the city has an updated and approved street plan. This plan is needed for budgeting and applying for any grants.

STAFF RECOMMENDATION:

Approve the 5 year street plan

ATTACHMENTS:

5 year street plan 2025-2029

RECOMMENDED MOTION:

Motion to approve the 5 year street plan 2025-2029 as presented.

STREET MAINTENANCE: 100-70-5431-3-36								
2025 PROSPECTIVE RECONSTRUCTION PROJECTS-ASPHALTIC PAVEMENT BINDER ONLY								
STREET	FROM	TO	LENGTH	WIDTH	S.Y.	Notes	Curb Replacement	Old PCI
Newton Ave	Rock Ave	N Harris Ave	898	36	3592	Utility Request	LRIP Grant \$400,000	3
Rock Ave	Newton	N Harris Ave	898	36	3592	Utility Request		3
Rock Ave.	CTH MMM (County Park Rd)	Newton Ave. / Rock Ave.	211	36	844	Talk with Fond du Lac County		3
			2007		8028			
STREET REPLACEMENT COST (\$454 / LF)			\$ 911,178.00					
STORMSEWER REPLACEMENT COST (36% of street replacement cost)			\$ 328,024.08					
SUBTOTAL (Street Replacement & Stormsewer Costs)			\$ 1,239,202.08					
ESTIMATED CONTINGENCY & CONST ENGINEERING COST (22% of sub-total)			\$ 272,624.46					
ESTIMATED DESIGN ENGINEERING (4% OF TOTAL COST FOR NEXT YEAR)			\$ -	Design Engineering for 2026 Reconst Projects				
ESTIMATED TOTAL COST			\$ 1,511,826.54					
STREET MAINTENANCE: 100-70-5431-3-36								
2025 PROSPECTIVE MILL AND OVERLAY PROJECTS---Utilities done 2024								
STREET	FROM	TO	LENGTH	WIDTH	S.Y.	Notes	Curb Replacement	Old PCI
Elm Ave.	Grandview Ave.	McKinley 2		212	28	659.5556		
Elm Ave.	McKinley 2	McKinley 2		53	28	164.8889		
Elm Ave.	McKinley 2	Visser Ave.		158	28	491.5556		
Elm Ave.	Visser Ave.	Grace St.		370	28	1151.111		
Elm Ave.	W. Brown St.	Jefferson St.		369	30	1230		
W. Brown St.	Beaver Dam St.	Hillyer St.		950	35	3694.444		
Grace St.	Fox Lake Rd.	Johnson St.		475	32	1688.889		
Grace St.	Johnson St.	Elm Ave.		317	32	1127.111		
Grace St.	Elm Ave.	Beaver Dam St.		528	32	1877.333		
SECTION TOTAL			3432		12085			
SECTION COST FOR MILLING PAVEMENT			\$ 29,366.28					
SECTION COST FOR ASPHALT PAVEMENT			\$ 124,232.66					
SECTION COST			\$ 153,598.94					
STREET MAINTENANCE: 100-70-5431-3-36								
2026 PROSPECTIVE RECONSTRUCTION PROJECTS								
STREET	FROM	TO	LENGTH	WIDTH	S.Y.	Notes	Curb Replacement	Old PCI
Alley	N. Mill St.	N. Madison St				MSA Estimate - TID Funds PVC Storm	\$234,380.00	
					0			
STREET REPLACEMENT COST (\$454 / LF)								
STORM SEWR REPLACEMENT (36% of street replacement cost)			\$ -					
SUBTOTAL (Street Replacement & Stormsewer Costs)			\$ -					
ESTIMATED CONTINGENCY & CONST ENGINEERING COST (22% of sub-total)			\$ -					
ESTIMATED TOTAL COST			\$ 234,380.00					
STREET MAINTENANCE: 100-70-5431-3-36								
2026 PROSPECTIVE MILL AND OVERLAY PROJECTS---Utilities done in 2025								
STREET	FROM	TO	LENGTH	WIDTH	S.Y.	Notes	Curb Replacement	Old PCI
River Rd	E. Spring St	Frontage Rd	792	20	1760	No Storm		3
W. Brown St	Termini	County Park Rd	950	33	3483.333			4
W. Brown St	Hillyer St	Bly St	317	34	1197.556	Clay storm in terrace		4
W. Brown St	Bly St	S. Division	475	34	1794.444	No Storm		4
W. Brown St	S. Division St	S. State St	370	30	1233.333	No Storm		5
W. Brown St	S. State St	Walker St	317	32	1127.111	Small portion of RCP		4
W. Brown St	Walker St	RR Tracks	203	32	721.7778	RCP		7
Sawyer St	S. Grove St	Termini	211	28	656.4444			2
STH 26 (S Watertown St)	Doty St	Barnes Ave				DOT Project	\$20,000.00	
Vliet St	Taylor St	Termini	317	22	774.8889			3
Elm Ave	STH49	W. Jefferson St	370	30	1233.333			6
Elm Ave	W. Jefferson St	Private	211	30	703.3333			6
Elm Ave	Private	W. Brown St	158	30	526.6667			6

Sunset Ct			317	36	1268	No Storm Utilites to look into water and sewer	this was also on 2029 mill-overlay in appl	3
SECTION TOTAL			5008		16480			
SECTION COST FOR MILLING PAVEMENT			\$ 25,873.95					
SECTION COST FOR ASPHALT PAVEMENT			\$ 173,371.94					
SECTION COST			\$ 219,245.89					
STREET MAINTENANCE: 100-70-5431-3-36								
2027 PROSPECTIVE RECONSTRUCTION PROJECTS-ASPHALTIC PAVEMENT BINDER ONLY								
STREET	FROM	TO	LENGTH	WIDTH	S.Y.	Notes	Curb Replacement	Old PCI
			0		0			
STREET REPLACEMENT COST (\$472.16 / LF)			\$ -					
STORMSEWER REPLACEMENT COST (37% of street replacement cost)			\$ -					
SUBTOTAL (Street Replacement & Stormsewer Costs)			\$ -					
ESTIMATED CONTINGENCY & CONST ENGINEERING COST (22% of sub-total)			\$ -					
ESTIMATED DESIGN ENGINEERING (4% OF TOTAL COST FOR NEXT YEAR)			\$ 60,821.17			Design Engineering for 2028 Reconst Projects (not including N Grove / Roosevelt / Park - Engineering in 20		
ESTIMATED TOTAL COST			\$ 60,821.17					
STREET MAINTENANCE: 100-70-5431-3-36								
2027 PROSPECTIVE MILL AND OVERLAY PROJECTS---Utilities done in 2026								
STREET	FROM	TO	LENGTH	WIDTH	S.Y.	Notes	Curb Replacement	Old PCI
Parking lot across from Ice arena					0	Dig out by city staff	170,000.00	
Parking lot Shlieve Field					0	Dig out by city staff	35,000.00	
					0			
					0			
					0			
					0			
					0			
					0			
SECTION TOTAL			0		0			
SECTION COST FOR MILLING PAVEMENT			\$ -					
SECTION COST FOR ASPHALT PAVEMENT			\$ -					
SECTION COST			\$ 205,000.00					
STREET MAINTENANCE: 100-70-5431-3-36								
2028 PROSPECTIVE RECONSTRUCTION PROJECTS-ASPHALTIC PAVEMENT BINDER ONLY								
STREET	FROM	TO	LENGTH	WIDTH	S.Y.	Notes	Curb Replacement	Old PCI
N Grove St	Park St	Roosevelt St	264	30	880	repair storm	Applied for BIL Grant	3
N Grove St	Roosevelt St	E Franklin St	317	30	1057			3
Franklin St	Just storm sewer pipe					Storm Sewer Estimate	\$123,960.00	
Roosevelt St	N. Grove	STH26	634	28	1972.444	,Clay Storm, Remove storm from mid block		3
Park St	N. Grove	STH26	581	28	1807.556	CMP Storm		4
			1796		5717			
STREET REPLACEMENT COST (\$491.05 / LF)			\$881,926					
STORMSEWER REPLACEMENT COST (37% of street replacement cost)			\$450,273					
SUBTOTAL (Street Replacement & Stormsewer Costs)			\$1,332,198					
ESTIMATED CONTINGENCY & CONST ENGINEERING COST (22% of sub-total)			\$293,083.64					
ESTIMATED TOTAL COST			\$1,625,282					
STREET MAINTENANCE: 100-70-5431-3-36								
2028 PROSPECTIVE MILL AND OVERLAY PROJECTS---Utilities done in 2026								
STREET	FROM	TO	LENGTH	WIDTH	S.Y.	Notes	Curb Replacement	Old PCI
SECTION TOTAL			0					

SECTION COST FOR MILLING PAVEMENT							
SECTION COST FOR ASPHALT PAVEMENT							
SECTION COST		0					

STREET MAINTENANCE: 100-70-5431-3-36							
2029 PROSPECTIVE RECONSTRUCTION PROJECTS-ASPHALTIC PAVEMENT BINDER ONLY							
STREET	FROM	TO	LENGTH	WIDTH	S.Y.	Notes	Old PCI
S Forest St	Main St	Jefferson St	422	28	1313		3
S Mill St	Main St	Jefferson St	422	30	1407		4
					0		3
					0		4
Young St	E. Brown ST	E. Jefferson St	370	39	1603	Utility may want to replace waterline in intersection	3
Young St	E. Jefferson St.	E. Main St.	422	39	1829		3
Young St	Young St	E Brown St	53	39	230		3
W. Jefferson St	S. Harris Ave	Liberty St	686	33	2515		2
					0		1
River St	Pioneer Ave.	Rock River Ave.	317	34	1198		3
E Jefferson St	S Watertown St	S Grove St	370	30	1233		4
Wilcox Ct	Wilcox St	Termini	422	19	891	Utility Spot Repair / City Mill & Overlay	5
Grace St.	Beaver Dam St	Hillyer St	950	36	3800	No Storm Utiliites will look into eastern portion	4
Rock River Ave	Brandon St.	Ackerman Ave	264	35	1026.667	Not in approved 2025-2029 street plan from 2024	4
Rock River Ave	Ackerman Ave	River St	211	35	820.5556	Not in approved 2025-2029 street plan from 2024	4
Rock River Ave	River St	Ousterling Dr	317	35	1232.778	Not in approved 2025-2029 street plan from 2024	5
Rock River Ave	Ousterling Dr	Riverview Ct	422	35	1641.111	Not in approved 2025-2029 street plan from 2024	5
Rock River Ave	Riverview Ct	Deylenn Ct	211	35	820.5556	Not in approved 2025-2029 street plan from 2024	5
Rock River Ave	Delynn Ct	N West St	264	35	1026.667	Not in approved 2025-2029 street plan from 2024	5
Rock River Ave	N West ST	Newton Ave	422	35	1641.111	Not in approved 2025-2029 street plan from 2024	4
			6545		24227.78		
STREET REPLACEMENT COST (\$510.69 / LF)			\$3,342,466				
STORMSEWER REPLACEMENT COST (37% of street replacement cost)			\$1,236,712				
SUBTOTAL (Street Replacement & Stormsewer Costs)			\$4,579,178				
ESTIMATED CONTINGENCY & CONST ENGINEERING COST (22% of sub-total)			\$1,007,419.27				
ESTIMATED TOTAL COST			\$5,586,598				

STREET MAINTENANCE: 100-70-5431-3-36							
2029 PROSPECTIVE MILL AND OVERLAY PROJECTS---Utilities done in 2026							
STREET	FROM	TO	LENGTH	WIDTH	S.Y.	Notes	Old PCI
N Harris Ave	Newton Ave	Church St	370	35	1439		4
N Harris Ave	Church St	Oriole St	370	34	1398		4
Church St	N Harris Ave	Termini	475	31	1636		4
Doty St	S Madison St	Maxon	1056	30	3520		5
							4.25
SECTION TOTAL			2271		7993		
SECTION COST FOR MILLING PAVEMENT			\$14,147				
SECTION COST FOR ASPHALT PAVEMENT			\$94,555				
SECTION COST			\$108,702				



AGENDA SUMMARY SHEET

MEETING DATE: 1/14/25

TITLE: Approve Purchase of 2025 Chevrolet 2500 HD 4WD Truck

AGENDA SECTION: CONSIDERATION-ACTION

PRESENTER: Jeff Daane, Public Works Director

DEPARTMENT GOAL(S) SUPPORTED <i>(if applicable)</i>	FISCAL IMPACT	
Public Infrastructure	Per 2025 Adopted City Budget	

ISSUE SUMMARY:

We will be replacing a 2006 truck. We received 3 quotes in alignment with our purchasing policy guidelines. We have provided information specific to each vendor's value adds in the attached analysis. The Board of Public Works is responsible per policy for selecting the best value for City of Waupun taxpayers to replace this vehicle.

STAFF RECOMMENDATION:

Determine vendor selection based on information provided

ATTACHMENTS:

Quote tab and analysis

RECOMMENDED MOTION:

Motion to approve [select vendor] in an amount of [state quote amount] and as authorized within the 2025 adopted City of Waupun Municipal Budget and recommended to the council for contract approval.

January 14, 2025 - 2025 Truck Replacement - Public Works

Requirements/Analysis

1. Total cost of ownership - best value to the local taxpayer over life of vehicle

	Estimate	Lead Time	Upfitter Delivery	Deliver Waupun	Warranty Delivery	Service Delivery*	Other
Holiday Auto	\$ 44,185.60	NA	NA	Y	Y	N	
Homan Auto	\$ 45,750.00	NA	NA	Y	Y	Y	Will provide warranty work regardless of where purchased from
Ewald	\$ 44,588.00	NA	NA	Y	N	N	Delivery \$57 fee added to purchase price



AGENDA SUMMARY SHEET

MEETING DATE: 1/14/25

TITLE: Approve Purchase of Snowplow for New 2025 ¾ Ton Pickup Truck

AGENDA SECTION: CONSIDERATION-ACTION

PRESENTER: Jeff Daane, Public Works Director

DEPARTMENT GOAL(S) SUPPORTED <i>(if applicable)</i>	FISCAL IMPACT	
Public Infrastructure/Capital Equipment	\$8374 (Included in 2025 Adopted Budget)	

ISSUE SUMMARY:

Snowplow quotes to go along with the new pickup truck. If we go with the low quote from Madison Truck Equipment the truck and plow are under the budgeted amount.

- Darrell's Auto repair LLC Boss 9'2" DXT \$8,930
- Caspers Truck Equipment Western 9'6" MVP3 \$9703
- Madison Truck Equipment Western 9'6" MVP3 \$8374

STAFF RECOMMENDATION:

Approve the purchase of Western MVP3 from Madison Truck Equipment

ATTACHMENTS:

RECOMMENDED MOTION:

Motion to approve the purchase of an MVP3 Snowplow from Madison Truck Equipment for \$8374.



AGENDA SUMMARY SHEET

MEETING DATE: 1/14/25
AGENDA SECTION: CONSIDERATION-ACTION
PRESENTER: Jeff Daane, Public Works Director

TITLE: Approve and Recommend Agreement to Raze and Remove Former McCune Beach Bath House

DEPARTMENT GOAL(S) SUPPORTED <i>(if applicable)</i>	FISCAL IMPACT	
High Performance Government	\$9,375 (Included in 2025 Budget)	

ISSUE SUMMARY:

Quotes were received and opened January 6, 2025 for the project to Raze and Remove the building. We received three quotes for the project. This is just for the demo work, city crews will topsoil and seed the site in the spring.

STAFF RECOMMENDATION:

Approve the quote from W&D Navis Inc.

ATTACHMENTS:

Quote Tab

RECOMMENDED MOTION:

Motion to approve W&D Navis to Raze and Remove the Former McCune Beach house for the amount of \$9,375



AGENDA SUMMARY SHEET

MEETING DATE: 1/14/25 **TITLE:** Discuss Newton Ave and Rock Ave Preliminary Plan

AGENDA SECTION: Discussion only

PRESENTER: Jeff Daane, Public Works Director

DEPARTMENT GOAL(S) SUPPORTED <i>(if applicable)</i>	FISCAL IMPACT	
High Performance Government	N/A	

ISSUE SUMMARY:

The project for 2025 will be out to bid soon. The second phase of the project will complete the northern portion of the Harris Creek and along the southwestern side of the creek along N. Harris Ave. There is one shed in conflict that will need to be moved. The shed is older and in bad shape. We are going to be working with the property owner to see what they would like to do with the shed. There are also a few bushes located on the far West end of the project that will be in conflict and we will be in touch with those property owners. I will be bringing back the results of that conversation for approval at the February meeting.

STAFF RECOMMENDATION:

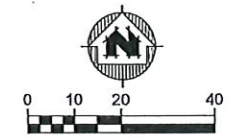
Work with property owner on shed moving/replacement

ATTACHMENTS:

Portion of the plan set

RECOMMENDED MOTION:

PROJECT NO. 00212157
 DATE 1/3/25

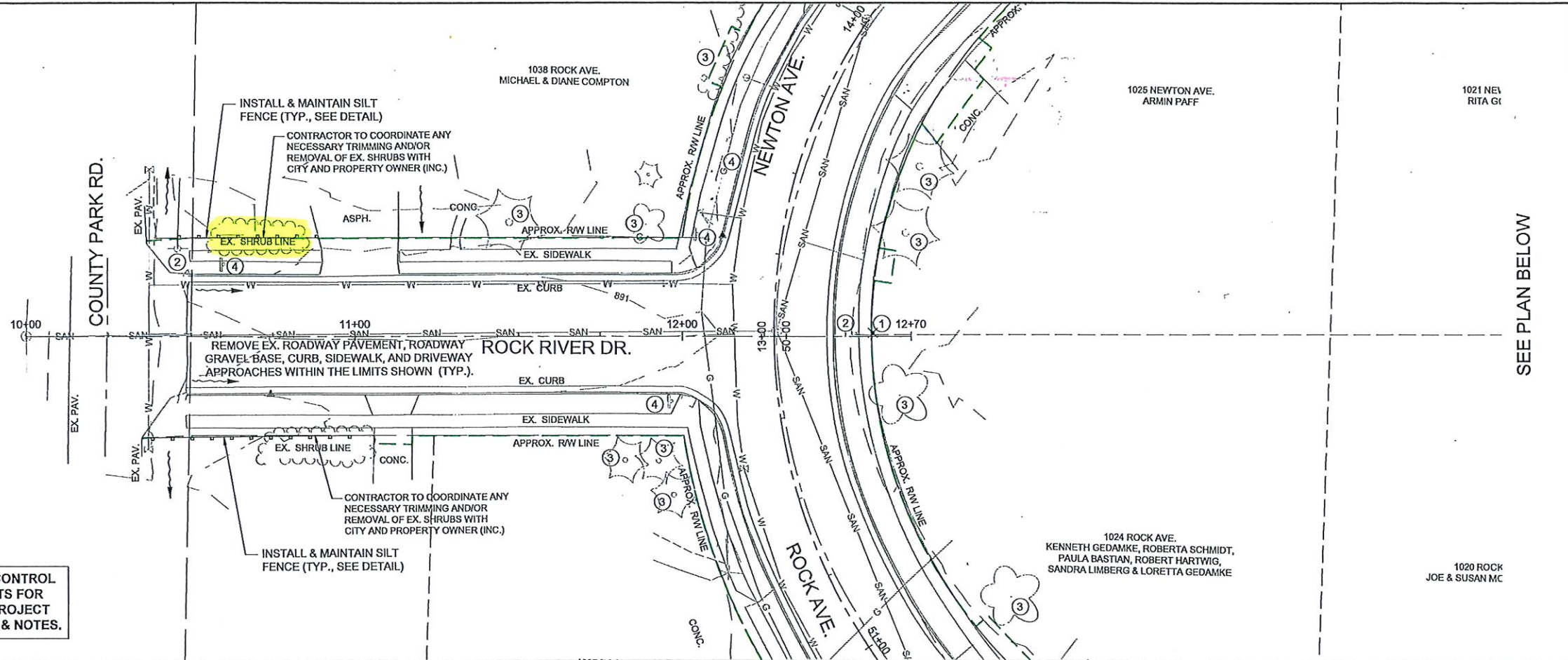


- LEGEND:**
- APPROXIMATE DISTURBANCE LIMITS
 - DRAINAGE ARROW
 - SILT FENCE (SEE DETAIL)
 - ⌒ TEMPORARY EROSION BARRIER (SEE DETAIL)
 - INLET PROTECTION (SEE DETAIL)

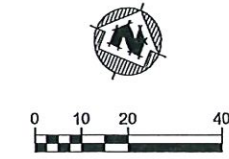
- NOTES:**
1. THE CONTRACTOR SHALL INSTALL INLET PROTECTION IN ALL EXISTING AND PROPOSED STORM INLETS (SEE DETAIL) UNTIL THE PROJECT SITE HAS BEEN STABILIZED (INCLUDED IN EROSION CONTROL BID ITEM).
 2. THE CONTRACTOR SHALL INSTALL TRACKING PAD(S) AT ALL ACCESS LOCATIONS TO THE PROJECT STREETS (SEE DETAIL).

- KEY NOTES:**
- ① SYMBOL DENOTES EXISTING SURVEY MONUMENTS (IRON PIPE, IRON RODS, ETC.) TO BE PRESERVED. SEE GENERAL PROJECT NOTE #4 ON SHEET #D8.
 - ② SYMBOL DENOTES EXISTING UTILITY POLE OR UTILITY STRUCTURE IN PROXIMITY OF WORK. CAREFULLY WORK AROUND POLE OR STRUCTURE SO AS NOT TO DAMAGE/DISTURB IT. ANY DISTURBANCE OR DAMAGE AS DETERMINED BY THE CITY SHALL BE REPAIRED AND/OR REPLACED AT THE CONTRACTOR'S EXPENSE.
 - ③ SYMBOL DENOTES AN EXISTING TREE/SHRUB TO REMAIN UNDISTURBED UNLESS DIRECTED OTHERWISE BY THE CITY. SAWCUT & REMOVE EX. TREE/SHRUB ROOTS AS NECESSARY TO INSTALL THE NEW SIDEWALK & CURB (INCIDENTAL).
 - ④ SYMBOL DENOTES EXISTING SIGN, MAILBOX, ETC. TO BE SALVAGED AND RESET BY THE CONTRACTOR AFTER CONSTRUCTION AS DIRECTED BY THE CITY (TYP. - INCIDENTAL).

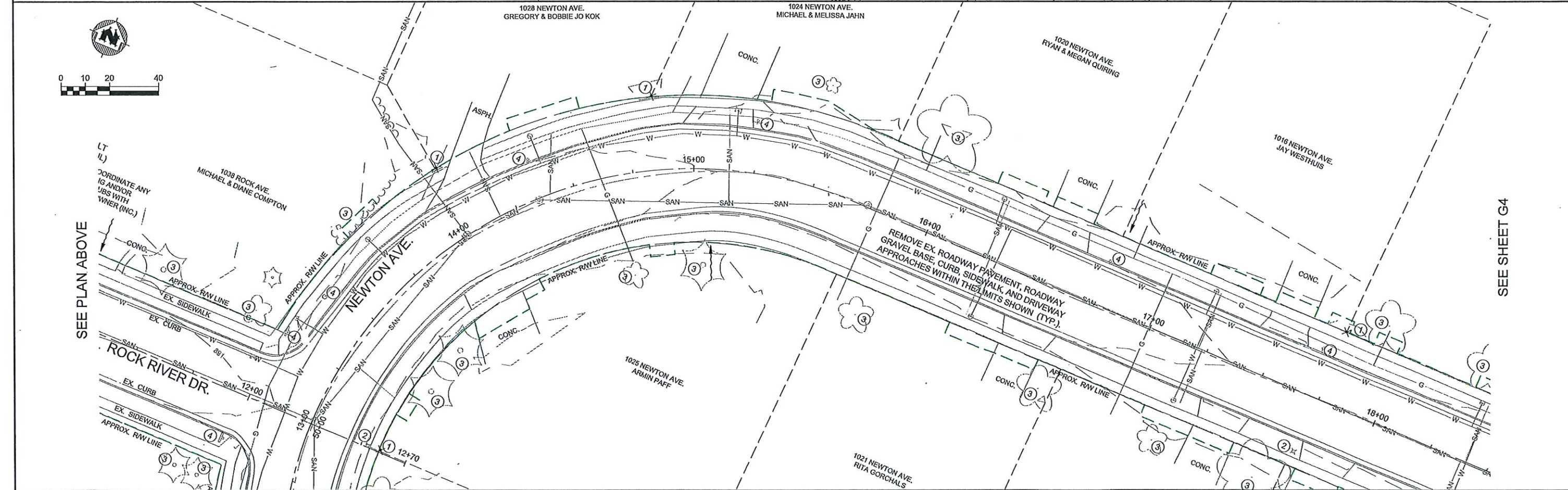
**SEE EROSION CONTROL
 DETAIL SHEETS FOR
 ADDITIONAL PROJECT
 REQUIREMENTS & NOTES.**



SEE PLAN BELOW



SEE PLAN ABOVE



SEE SHEET G4

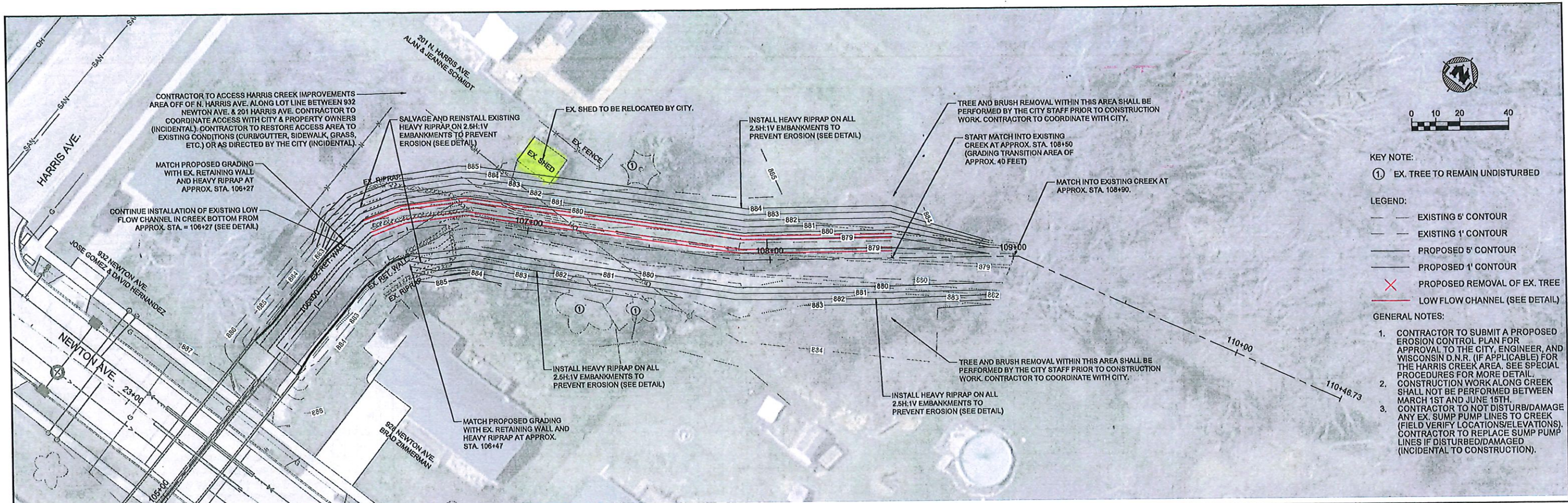
PROJECT NO.	SCALE: AS SHOWN	NO.	DATE	REVISION	BY
00212157					
PROJECT DATE:	DRAWN BY:				
F.B.:	CHECKED BY:				
DATE: 1/3/25, G:\00212157\CADD\G3\0019010 Design-Newton & Rock.dwg					

MSA ENGINEERING | ARCHITECTURE | SURVEYING
 FUNDING | PLANNING | ENVIRONMENTAL
 201 Corporate Drive, Beaver Dam WI 53916
 (920) 887-4242 www.msa-ps.com
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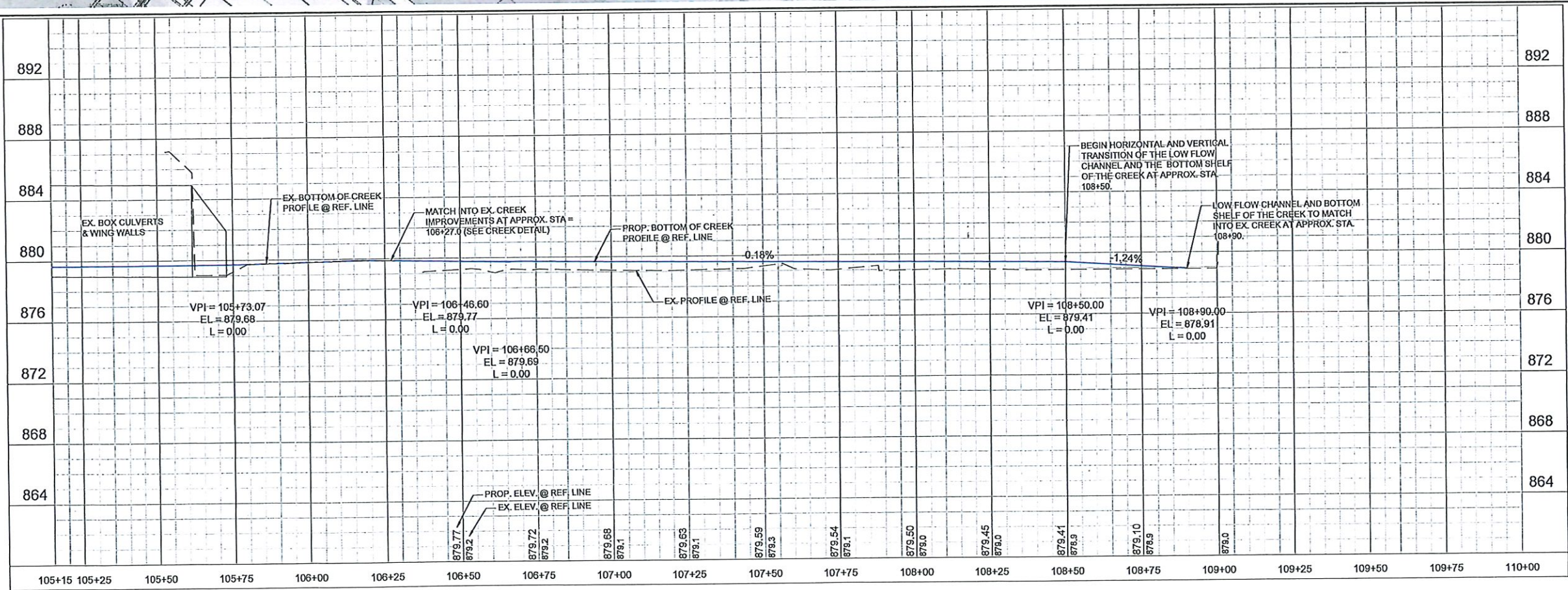
NEWTON AVE. & ROCK AVE. RECONSTRUCTION - PHASE II
 CITY OF WAUPUN
 FOND DU LAC COUNTY, WISCONSIN

EROSION CONTROL & REMOVAL PLAN SHEET

FILE NO. 00212157
 SHEET G3



- KEY NOTE:
 ① EX. TREE TO REMAIN UNDISTURBED
- LEGEND:
 --- EXISTING 5' CONTOUR
 --- EXISTING 1' CONTOUR
 --- PROPOSED 5' CONTOUR
 --- PROPOSED 1' CONTOUR
 X PROPOSED REMOVAL OF EX. TREE
 --- LOW FLOW CHANNEL (SEE DETAIL)
- GENERAL NOTES:
 1. CONTRACTOR TO SUBMIT A PROPOSED EROSION CONTROL PLAN FOR APPROVAL TO THE CITY, ENGINEER, AND WISCONSIN D.N.R. (IF APPLICABLE) FOR THE HARRIS CREEK AREA. SEE SPECIAL PROCEDURES FOR MORE DETAIL. CONSTRUCTION WORK ALONG CREEK SHALL NOT BE PERFORMED BETWEEN MARCH 1ST AND JUNE 15TH.
 2. CONTRACTOR TO NOT DISTURB/DAMAGE ANY EX. SUMP PUMP LINES TO CREEK (FIELD VERIFY LOCATIONS/ELEVATIONS). CONTRACTOR TO REPLACE SUMP PUMP LINES IF DISTURBED/DAMAGED (INCIDENTAL TO CONSTRUCTION).



NO.	DATE	REVISION	BY

PROJECT DATE: _____

DRAWN BY: _____

DESIGNED BY: _____

CHECKED BY: _____

MSA ENGINEERING | ARCHITECTURE | SURVEYING
 FUNDING | PLANNING | ENVIRONMENTAL
 201 Corporate Drive, Beaver Dam WI 53916
 (920) 887-4242 www.msa-ps.com
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NEWTON AVE. & ROCK AVE. RECONSTRUCTION - PHASE II
 CITY OF WAUPUN
 FOND DU LAC COUNTY, WISCONSIN

HARRIS CREEK GRADING PLAN

PROJECT NO.
00212157

SHEET
ST1

1/2/2025 8:09 AM, G:\00\00212\00212157\CADD\Construction Documents\WFG - Harris Creek Alignment - (2) - (1).dwg



AGENDA SUMMARY SHEET

MEETING DATE: 1/14/25

TITLE: Recommend Naming of 510 E Spring Street

AGENDA SECTION: ACTION

PRESENTER: Jeff Daane, Public Works Director

DEPARTMENT GOAL(S) SUPPORTED <i>(if applicable)</i>	FISCAL IMPACT	
Public Infrastructure	Signage Updates TBD	

ISSUE SUMMARY:

Staff have been working with the Waupun Hockey Association on renaming of the public facility located at 510 E Spring St from Waupun Community Center to another name. The name Waupun Community Center name was transferred to the new facility located at 520 McKinley Street when it opened in October of 2024. The Hockey Association reviewed as a board and is recommending that the building be renamed to Waupun Recreational Arena. The Hockey Association is a primary user of the facility.

STAFF RECOMMENDATION:

ATTACHMENTS:

RECOMMENDED MOTION:

Motion to recommend to the Common Council approval to name the public building located at 510 Spring Street the Waupun Recreational Arena based on direction received from Waupun Hockey Association.



AGENDA SUMMARY SHEET

MEETING DATE: 1/14/25

TITLE: Recommend Naming of 510 E Spring Street

AGENDA SECTION: ACTION

PRESENTER: Jeff Daane, Public Works Director

DEPARTMENT GOAL(S) SUPPORTED <i>(if applicable)</i>	FISCAL IMPACT	
Public Infrastructure	Signage Updates TBD	

ISSUE SUMMARY:

Staff have been working with the Waupun Hockey Association on renaming of the public facility located at 510 E Spring St from Waupun Community Center to another name. The name Waupun Community Center name was transferred to the new facility located at 520 McKinley Street when it opened in October of 2024. The Hockey Association reviewed as a board and is recommending that the building be renamed to Waupun Recreational Arena. The Hockey Association is a primary user of the facility.

STAFF RECOMMENDATION:

ATTACHMENTS:

RECOMMENDED MOTION:

Motion to recommend to the Common Council approval to name the public building located at 510 Spring Street the Waupun Recreational Arena based on direction received from Waupun Hockey Association.



AGENDA SUMMARY SHEET

MEETING DATE: 1/14/25

TITLE: Winter Salt Awareness Week January 27-31
Proclamation

AGENDA SECTION: Discussion

PRESENTER: Jeff Daane, Public Works Director

DEPARTMENT GOAL(S) SUPPORTED <i>(if applicable)</i>	FISCAL IMPACT	
High Performance Government	N/A	

ISSUE SUMMARY:

Wisconsin Salt Wise is a coalition of organizations from across Wisconsin working together to reduce salt pollution in our lakes, streams and drinking water¹. According to Wisconsin Salt Wise, one teaspoon of salt is all it takes to make five gallons of water toxic for freshwater organisms²³. Chlorides from salt are infiltrating lakes, streams and groundwater in Wisconsin and much of the U.S.³.

STAFF RECOMMENDATION:

ATTACHMENTS:

- 2025 Winter salt week proclamation
- 2024 Wisconsin salt wise annual report

RECOMMENDED MOTION:

WINTER SALT WEEK PROCLAMATION

JANUARY 27-31, 2025

WHEREAS, all the salt applied to Wisconsin roadways, parking lots, and sidewalks eventually ends up in our freshwater, polluting lakes, streams, and groundwater; and

WHEREAS, chloride contamination is increasing statewide, with measurable impacts on our drinking water; and

WHEREAS, even a small amount—just one teaspoon—can pollute five gallons of water to a level that is toxic for aquatic life, and removing salt from water is costly and challenging; and

WHEREAS, reducing the overuse of deicing salt not only protects our freshwater resources, but also minimizes damage to infrastructure and property and reduces harm to aquatic plants and animals; and

WHEREAS, affordable alternatives to traditional deicing salt, such as brine and sand, are effective options to reduce environmental harm while maintaining public safety; and

WHEREAS, raising awareness among residents, businesses, and local governments about the responsible use of deicing salt is essential to balancing public safety with environmental stewardship; and

WHEREAS, Winter Salt Week serves as an opportunity to educate our communities on smart salting practices, including effective application methods and environmental considerations; and

WHEREAS, the residents of Wisconsin can make meaningful contributions to salt pollution reduction by learning about smart salting practices, engaging in safe winter driving, and hiring trained service providers; and

WHEREAS, Wisconsin Salt Wise is committed to promoting winter maintenance strategies that ensure public safety while protecting the health of our freshwater resources for present and future generations; and

NOW, THEREFORE, Wisconsin Salt Wise, proclaims January 27-31, 2025 as

“WINTER SALT WEEK”

And urges all residents, businesses, and state departments to take part in activities and initiatives that promote the responsible use of deicing salt and encourage the adoption of winter maintenance strategies which maintain safety while reducing environmental harm.

WISCONSIN SALT WISE

2024 Annual Report



Presented to *Fund for Lake Michigan*

Presented by *Allison Madison*





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INTRODUCTION

2024 has been a year of **deepening partnerships** with industry professionals and **expanding the network** with peers across the country. At core this work is about raising awareness that salt is a pollutant in our freshwater and inspiring action. The more people and organizations that we can collaborate with, the faster these ideas and practices will disseminate.

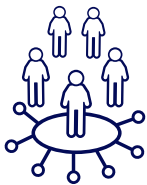
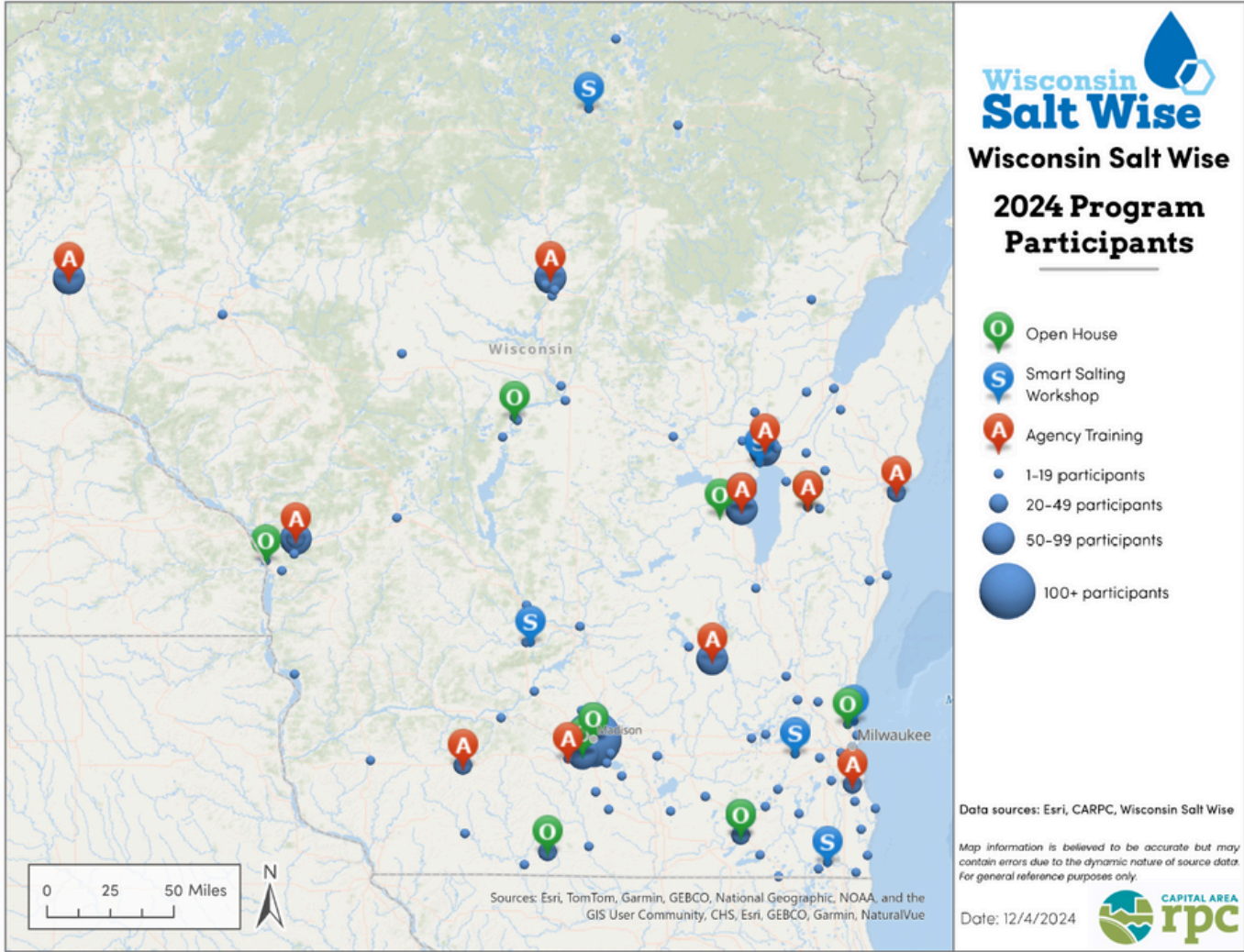
Our leadership on the limited liability legislation (funded by other partners) attracted the attention of the Snow and Ice Management Association and opened doors to collaborations in their publications and educational resources. Yes, **Wisconsin Salt Wise made the cover of Snow Business (Nov. 2024)!** We also assisted with the planning and implementation of the first-ever Midwest Snow and Ice Conference in Pewaukee this fall. Preparations for a repeat event in 2025 are already underway.

Also, ongoing is planning for Winter Salt Week 2025. We dropped “Wisconsin” from the name of the week in 2024, but learned from out-of-state organizations that it remained a barrier to direct residents to a website with “Wisconsin” in the title. So, this summer **we rallied broader investment in the week** to support the development of a new website and a plan for the week **that will highlight stories from partners across the Midwest and Northeast.**

Every year **the heart of our work happens during the fall training season** when we’re on the road connecting with practitioners. We kicked off the season with a Smart Salting Workshop at Nicolet College in Rhinelander on September 12. December 5, we wrapped it up with a final class at Retzer Nature Center in Waukesha. In total, we led **ten individual agency trainings, nine Equipment Open Houses, and SIXTEEN smart salting workshops.**

Thank you for your critical support!
Allison Madison

SALT WISE EVENTS



**Eleven
agency trainings**



**Nine
open houses**



**Sixteen
Workshops**

*Six workshops in Madison

WINTER SALT WEEK 2024

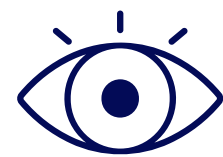
The debut of a “national” awareness week

WINTER SALT AWARENESS WEEK
Jan. 22–26, 2024
 Daily Livestreams 12:30–1 p.m. CT

Monday	Tuesday	Wednesday	Thursday	Friday
Hilary Dugan <i>presenting</i>	Sawyer Bailey <i>presenting</i>	Bill Hintz <i>presenting</i>	Bill Quackenbush and Jeremy C. Weso <i>presenting</i>	Laura Fay <i>presenting</i>
Salt Pollution Trends in our Lakes and Rivers	Salt: An Environmental Justice Contaminant	Ecological Consequences of Salting our Freshwater	From Pathways to Highways: Tribal Perspectives	Winter Ops that Reduce Salt Use

For more information, visit wisaltwise.com

Interest in the mission and vision of Wisconsin Salt Awareness Week continues to grow. In response to growing regional participation, we dropped “Wisconsin” from the event title and encouraged several partners across the upper Midwest and Northeast to help us promote the week’s livestreamed webinars.



2,144

Webinar Views

WINTER SALT WEEK 2025

A new website for a growing week. In preparation for Winter Salt Week 2025, we have been actively growing our network of event partners and allies beyond Wisconsin. We created a new website to better represent the broad coalition of individuals and organizations who are helping to promote and financially contribute towards the ongoing development of the week.



Raising awareness around salt pollution and reduction solutions.

All the salt that we apply to streets and sidewalks ends up in our freshwater. Salt pollution is impacting lakes, streams, and drinking water.

By implementing best practices and new technologies, public agencies and private businesses are reducing salt use by 30-50%.

[More about the problems.](#)

[More about the solutions.](#)



WINTER SALT WEEK 2025

Partners and Allies



WINTER SALT WEEK 2025

DAILY LIVE STREAMS

MONDAY AN EYE ON SALT POLLUTION

27
JAN
ABBY HILEMAN
SALT WATCH COORDINATOR
IZAAK WALTON LEAGUE OF AMERICA



TUESDAY DILUTION IS NOT THE SOLUTION

28
JAN
DR. JESS HUA
ASSOCIATE PROFESSOR
UW-MADISON FOREST AND WILDLIFE
ECOLOGY DEPARTMENT



WEDNESDAY PUBLIC WORKS PERSPECTIVES

29
JAN
MUNICIPAL AGENCY STAFF
MAINE, MICHIGAN, MINNESOTA,
NEW HAMPSHIRE, NEW JERSEY, OHIO,
PENNSYLVANIA, VA/MD/DC, WISCONSIN



THURSDAY POLICY SOLUTIONS PANEL

30
JAN
TED DIERS
NEW HAMPSHIRE DEPARTMENT OF
ENVIRONMENTAL SERVICES
CARA HARDESTY
OHIO ENVIRONMENTAL PROTECTION
AGENCY
BRYAN GRUIDL
CITY OF BLOOMINGTON, MINNESOTA



FRIDAY LOCAL ACTION DAY

31
JAN
SALT MONITORING
LOOK ONLINE FOR AN EVENT NEAR YOU



WINTERSALTWEEK.ORG

OPEN HOUSES

Calumet County, Fitchburg, Green County, La Crosse County, Madison, Walworth County, UW-Oshkosh, and Wisconsin Rapids convened over 200 practitioners and garnered significant media attention (pgs 22-23).



Clockwise from top left: Madison, Walworth County, Wisconsin Rapids, and Green County
Not pictured: Calumet County, Fitchburg, and UW-Oshkosh

SALT WISE INSTRUCTION

Public Workshops and Agency Trainings for 550+ industry professionals

We revamped the training curriculum this summer to include new practitioner videos, increase the number of high engagement activities, and stay current with evolving technologies.

We saw a marked increase in demand for Spanish language trainings this season. The assessment is now available in Spanish and three classes received Spanish language accommodations. Further resource development is required for Fall 2025.

Pictured from top: Village of Fox Point Smart Salting Workshop, Jackson Yard Care Workforce Development Program Graduation, La Crosse County Highway Department Safety Day.



COURSE EVALS

Smart Salting Workshops

2024 Course Evaluation

1. At an **individual level**, what is one Salt Wise step that you can take this winter?

Need to Calibrate our Drop & salt spreaders. Use or Brine for ^{Prevent} Salt.
minimize hard use salting.

2. At an **organizational level**, what is one Salt Wise step that your agency can take this winter?

3. Pretend that you are leaving a Yelp/Google review. How would you rate/describe this course?

★ ★ ★ ★ ★. Learned a lot in a way I can retain the information.
Very friendly & interactive which helps me learn.

4. Please share any other feedback that could help us improve this course and/or support your team in the future.

Wonderful class, thank you for your time & knowledge!

1. At an individual level, what is one Salt Wise step that you can take this winter?

As a company we are testing 5 Madison, WI area stores using a brine solution rather than Full salt only

2. At an organizational level, what is one Salt Wise step that your agency can take this winter?

I will definitely be much more aware of the level of salt I use at LaCrosse!

3. Is there a barrier to Salt Wise practices that you need support to overcome?

Probably overcoming a mind set of our snow removal vendors - long held beliefs and traditions

4. Please share any other feedback that could help us improve this course in the future (feel free to use the back of the page).

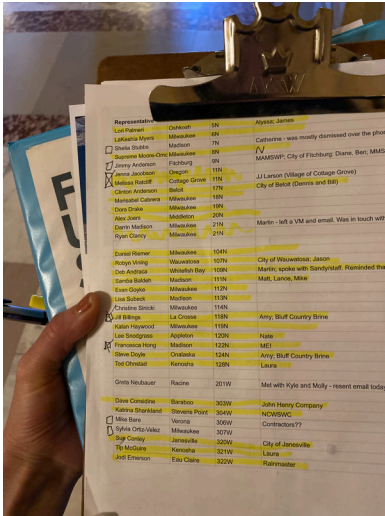
Wonderful course - tons of fantastic information - very well presented
Allison - very thorough! Very cheery and energetic!

LIABILITY LEGISLATION

Rally for Senate Bill 52/Assembly Bill 61

After the Salt Wise Limited Liability bill passed in both houses, we hosted a Snow Plow Rally urging Gov. Evers to sign the bill into law. On March 29, he vetoed the bill, but has since asked the bill's primary opponent (WI Association for Justice) to work with us this session.

Clockwise from top center: visiting legislative offices; smiles at the rally; Stacey Balsley, Reinders, me, Erik Dyba, David J. Frank; Senate agenda; signs and snowplows.



Tittl, Wichgers and Green.
made a special order of business at 10:02 AM on 2-22-2024
lution 28.

SPECIAL ORDER OF BUSINESS AT 10:

Assembly Joint Resolution 60 (20 minutes)
relating to: the freedom to gather in places of worship during
consideration).

by Representatives Bodden, Tusler, Behnke, Allen, Armstrong
ks, Edming, Goeben, Gundrum, Gustafson, Hurd, Magnafici
ity, O'Connor, Penterman, Rettinger, Rozar, Schmidt, Schra-
reen; cosponsored by Senators Tomczyk, Bradley, Cabral-
Quinn and Stroebel.

report adoption recommended by committee on Judiciary, A
made a special order of business at 10:02 AM on 2-22-2024)
lution 28.

SPECIAL ORDER OF BUSINESS AT 10:0

Bill 52 (15 minutes)
relating to: creating a deicer applicators certification program
appropriation. (FE)

y Senators Jacque, Hesselbein and Spreitzer; cosponsored by
Knodl, Andraca, Baldeh, Doyle, Gustafson, Murphy, O'Co
land.

STATEWIDE GRANT PROGRAM PROPOSAL

Post-veto, we pitched another strategy to the Governor’s staff: creating a chloride reduction statewide grant program, modeled after the H2Ohio program, that would support municipal investments in smart salting technologies.

Several other states support municipalities with the purchase of equipment or construction of salt storage facilities that will reduce salt pollution into local waterways. Final draft below.

SALT POLLUTION REDUCTION

GRANT PROGRAM PROPOSAL

BACKGROUND

Salt (sodium chloride) is a permanent pollutant in our water. Sodium and chloride levels are continuing to increase in Wisconsin’s lakes, streams, and drinking water, and the only way to address this issue is to reduce salt pollution at its source.

Advances in snow and ice control including ground speed control systems, improved plow blade technologies, and the utilization of salt brine, enable annual road salt reductions of 25-50%. Unfortunately, the initial capital investment cost of this equipment prohibits many municipalities from tapping into these benefits. Grant program dollars for equipment and staff training can jumpstart long-term savings in annual salt use and reduced infrastructure repair costs, and protect our freshwater resources.

PROGRAM COST	FORECASTED BENEFITS
<ul style="list-style-type: none"> • \$4.5 million grant dollars • 0.25 FTE for grant program administration 	<ul style="list-style-type: none"> • Salt reduction of 10,000 Tons/year • Salt savings of \$1 million/year • Reduced infrastructure damage of \$10-30 million/year • 10,000 Olympic swimming pools of freshwater protected each year

SIMILAR PROGRAMS

OHIO: In 2024, Ohio EPA awarded \$4.4 million to local units of government to fund upgrades to road salt application equipment and storage facilities through their H2Ohio Rivers Initiative.

MINNESOTA: The Minnesota Pollution Control Agency offers grant funding to support local coordination of chloride pollution reduction efforts. Eligible recipients include governmental agencies, for-profit businesses, and NGOs, that will develop and implement chloride reduction action plans in communities or industrial facilities.

AMPLIFYING THE POWER OF BEST PRACTICES

To ensure the greatest impact of program dollars, all applicants should complete the Wisconsin APWA Excellence in Snow and Ice Control self-assessment as a pre- and post-measure of practices. This self-assessment requires evidence of calibration for each salt spreader. Calibration alone consistently cuts salt use by 20-40%.

Grant recipients should commit to pursuing smart salting training for operators and to host and/or attend a regional winter equipment open house to share their experience and learnings with a network of peers to further promote knowledge-sharing among agencies.

The scoring rubric for the grant applications could be designed to preferentially support communities of need: towns, villages, more rural counties, and/or joint applications with a coalition of agencies that wish to make a shared purchase of a brine maker, calibration scale, remote weather stations, etc.

EXAMPLES OF QUALIFIED EQUIPMENT

- Pavement temperature sensors
- Sectional or live-edge blades
- Rubberized blades
- Remote weather stations
- Pre-wet systems
- Anti-icing systems
- Storage tanks

SALT LEVELS: PAST, CURRENT, FUTURE

Background levels of chloride (salt) in drinking water and surface water are 0-10mg/L across most of the state.

Today, chloride levels are commonly in the 10’s to 100’s year-round and, spike into the 1,000s in our urbanized streams. 208 public drinking water wells exceed 120 mg/L, the preventative action limit for chloride.

NEW AWARD



The Wisconsin Chapter of the American Public Works Association announced a NEW Chapter award in 2024. The creation of this award was a multi-year process, but one that promises annual dividends. Each year at the APWA Spring Conference, three Wisconsin agencies will be recognized for their leadership in winter maintenance practices. Showcasing the strengths of these programs will inspire others and reinforce the importance of smart salting practices.

WI Salt Wise catalyzed the creation of this award through conversations with APWA Executive Committee and Awards Committee members, draft application and rubric documents, award promotion, judges recruitment, and score summarization with an Awards Committee member who made final recommendations to the Awards Committee chair.

2024 Award Winners:

Town of Linn, Wisconsin Rapids, Walworth County

NEW CONFERENCE

100+ attendees from public agencies and private companies

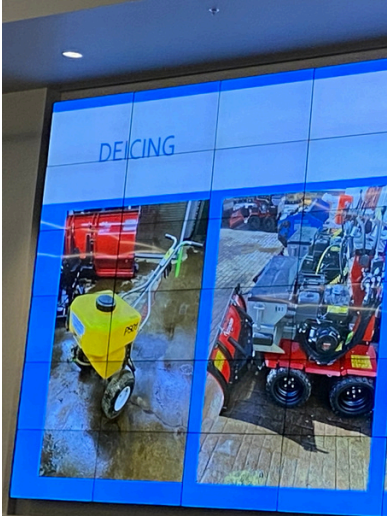
Waukesha County Technical College
Pewaukee, Wisconsin



REDUCE SALT, SAVE COSTS


SIMA's first Midwest Salt Symposium will help snow removal professionals, grounds managers and municipalities in Wisconsin and nearby states to adopt a more sustainable approach to salt use.

- Tools and Tech to Reduce Salt Use
- Changing Climatology and Impact on Winter Management
- Reduce Chlorides and Save Money
- Liquids: Walk Before You Run
- Cost Savings with Calibration



Salt Wise assisted in the design and coordination of the first annual Midwest Snow and Ice Conference focused on accelerating the adoption of best practices in snow and ice control.

TRADE JOURNALS, etc.



Salt Wise Practices: A Win for the Triple Bottom Line

Forward-thinking municipalities across Wisconsin are dialing in their use of salt to cut material costs and reduce the damages incurred to infrastructure. Salt prematurely ages concrete and metal. Less salt slows back down the rate at which roads crumble and bridges deteriorate. Additionally, public drinking water testing across Wisconsin has revealed that sodium and chloride levels are steadily increasing in our groundwater. Right-sizing our salt use today is critical for ensuring the health and safety of our drinking water tomorrow.

The good news is that precision applications of salt based on pavement temperature and the incorporation of liquid deicers are capable of delivering equivalent levels of service with less total salt, as unbelievable as it may seem. The following case studies from several Wisconsin municipalities exemplify several key smart salting practices.


Stevens Point Calibrates And Adjusts Rates

Salt's melting speed and melting capacity vary with temperature. That means that less salt is needed at warmer pavement temperatures. The City of Stevens Point places application rate charts in the cabs of vehicles to remind drivers how much salt is recommended at various pavement temperatures. If your municipality's fleet isn't outfitted with pavement temperature sensors, after market sensors can be installed. And if your fleet includes some or all manual-handled vehicles, they can be calibrated so operators know the application rate at all relevant settings and speeds. Calibration alone can reduce salt use by 20-40%!

After calibrating their fleet, educating operators, and utilizing groundspeed control, Stevens Point DPW slashed their salt use from 4,500 tons per year (2008-14) to 1,600 tons per year (2018-22). Average savings = \$100,000 a year!

The City of Glendale Embraces Liquids

One of the barriers to utilizing liquids is the upfront cost of equipment. (Even when equipment pays for itself in a few years, Wisconsin does not have municipal grant programs to support Salt Wise equipment purchases like Minnesota and Ohio.) So, with some ingenuity, and a stroke of luck in late 2021, the City of Glendale's Streets Department made the budget-wise purchase of a retired tanker truck from their fire department. With some trial and error, they converted it into a brine unit for anti-icing and direct liquid applications. Since then, they have continued to improve the system's performance in the winter months. In the summer, they rinse out the tank and utilize it to water municipal planters and newly planted trees.




Eau Claire Communicates

The City of Eau Claire has made many operational improvements to their snow and ice control operations. What really sets them apart, however, is their consistent, clear communication to residents about what the Streets Department is doing, what residents can do, and why this all matters. Communication is key if we are going to shift away from the narrative that "more salt is better." If you don't know where to start, reach out! Wisconsin Salt Wise has free resources to share: newsletter blurbs, template articles for alders to share with residents, social media posts, etc.

Inspired to learn more about these stories? Listen to municipal staff from Stevens Point, Walworth County, Eau Claire, and other municipalities share their successes and next steps on the WI Salt Wise YouTube Channel or directly from the website: <https://www.wisconsin.gov/WISaltWise>

Wisconsin Salt Wise is a coalition of organizations across the state working to reduce salt pollution in our lakes, streams, and drinking water. We specialize in training, facilitation, and resource development around salt pollution and reduction solutions. Reach out with your ideas, we're happy to collaborate!



Allison Madison, Wisconsin Salt Wise Program Manager, is dedicated to spearheading statewide collaboration around salt reduction and protecting Wisconsin's freshwater resources. Contact Allison at allison@cpwaterpc.org

Chloride Combat

Advocates stress culture change, bringing diverse groups together to drive salt reduction efforts // BY PATRICK WHITE

If there's one thing that should bring people together, it's the planet we all share. So perhaps it's not surprising to learn about the diverse coalition—governmental agencies, private contractors, non-profits and associations—working to address the harmful impacts of chlorides on water bodies.

Chloride reduction efforts have been ongoing for more than two decades—and as word has spread and more has been learned about the issue of chloride contamination, the community of people concerned about the issue has grown. And ideas are being shared and borrowed across borders and between industry members. For example, Minnesota was an early leader in salt reduction and its voluntary salt

applicator training program, and more states are pursuing similar initiatives.

Ted Diers, assistant director of the water division within New Hampshire's Department of Environmental Services, says a major highway expansion project 20 years ago initially led to chloride concerns when pre-construction research revealed very high levels of chloride in surrounding water. "We already had impaired water bodies and now we're talking about doubling the size of the highways," he recalls. "The project wasn't going to be stopped, so we said we have to find a way to reduce the amount of salt being used."

The state began to rely on brine for highway treatments, created a program to help municipalities buy better equipment to control salt applications, and created its own voluntary training program.

As New Hampshire crafted plans to combat chloride contamination, Diers connected with Phill Sexton, CSF, founder and CEO of WET Advisors, based in New York. Sexton says that the corrosive effects of rock salt were well known even decades earlier. "But back then," he notes, "very few understood the urgent negative forever impacts that chloride salts contribute to freshwater resources, including drinking water health."


Allison Madison, project manager for Wisconsin Salt Wise, has seen the community of people who want to reduce chlorides grow with the more outreach she does.



BEYOND THE PAIL WEBINAR SERIES




Clockwise from top left: The Municipality, League of WI Municipalities; Snow Business, Snow & Ice Management Association; The Reporter, American Public Works Association; Beyond the Pail webinar, Wisconsin Association for School Business Officials



February 2024 » Features » Road salting: The operations and water resources connection

Road salting: The operations and water resources connection

Allison Madison Program Manager Wisconsin Salt Wise Madison, Wisconsin Wisconsin APWA Chapter



Salt enhances leaching of iron, manganese, and other metals from soils and pipes to surface waters. Downstream of a storm drain, this small Maryland creek has essentially been dyed orange and black.

Road salt helps us keep people safe and commerce flowing on winter roads.

Salt has been cheap and effective, and after we put it down, it just goes away.

Sounds magical, right? Unfortunately, municipal staff, engineers, biologists, chemists, and the public are growing increasingly aware of the true impacts of salt on our infrastructure, vehicles, soils, groundwater, lakes, and streams.

UW SYSTEM REPORT

Eight UW campuses provided comprehensive data on salt usage, snow and ice control practices, the cost of salt damage, barriers to change, etc. Findings were summarized in a 12-page report that was shared with campus facilities staff and campus sustainability staff. Selected pages below.

SALT USE SUMMARY

Campus	Area* (acres)	Salt (T)	Brine (gal)	Sand (T)	Salt/Acre** (T/acre)
Stevens Point	52	220	100	0	4.23
Parkside	41	100	5,000	1	2.58
Whitewater	69	125	31,000	20	2.33
Green Bay	66	80	5,000	0	1.3
Eau Claire	42	44	3,800	1	1.15
Stout	50	20	5,000	0	0.4
Oshkosh	47	12	0	0	0.26
River Falls	46	5	0	0	0.11

Self-reported average annual material data from Winter 2023-24.
 *Area is combined road, sidewalk, and park
 Stevens Point don't maintain roadways.
 **The calculation of Salt/Acre includes both

University of Wisconsin-Green Bay

BACKGROUND

After taking the Salt Wise training in 2019, UW-Green Bay grounds administrators committed to improving practices on campus. From education and equipment upgrades, to changing when and how they salted, an overhaul of their winter maintenance program resulted in huge salt savings. An indirect benefit was a reduction in damage and cleaning inside buildings.

OVERVIEW

Salt Savings:
 Winter 2018-2019: 325 tons
 Winter 2019-20: 143 tons
 Winter 2020-21: 64 tons
 Total Reduction: 80%

Budget Numbers:
 \$30,500 in salt savings over two years
 Labor needs and costs decreased

CHLORIDE REDUCTION STRATEGIES

New Methods:

- In-house training for all custodial staff and resident assistants on the environmental impacts of salt, salt use best practices, and the new policies.
- Emphasis on mechanical removal (only spot treating with salt) during the storm.
- Frequent monitoring of pavement temperature to inform salt application rates.

New Equipment:

- 1-ton pickup outfitted with ground speed control, air and pavement temp. sensors.
- New plows for front loaders enabled the more efficient movement of snow.
- A sectional plow blade that conformed to pavement crown or unevenness.
- Brooms for skid steers produced a better result in less time.

“The Salt Wise class opened up a whole new world.”
 Brad Gajesk, UWGB Facilities and Planning

SALT DAMAGE ON CAMPUSES

Survey respondent estimates of annual damage from winter salt use range from \$5,000-\$150,000.

- 87.5% Sidewalks and Doors
- 87.5% Vegetation
- 75% Stairways
- 50% Building Facades and Floors

OVERCOMING BARRIERS TO CHANGE

Respondents identified the following as the primary barriers to reducing campus salt use. A secondary barrier was uninformed salt applications by non-grounds employees.

EXPECTATIONS/COMPLAINTS
 Respondents identified the following as the primary barriers to reducing campus salt use. A secondary barrier was uninformed salt applications by non-grounds employees.

HIGH COST OF ALTERNATIVE INFRASTRUCTURE. Salt Wise practices purchasing it from a local municipal approaches to begin utilizing them.

LARGE AREA TO MAINTAIN
 The goal is to apply salt/other d

BEST PRACTICES

Practices employed across all participating campuses

- 100% Calibrate equipment annually
- 100% Remove snow before salt application
- 100% Remove snow frequently during storms
- 100% Treat the amount of winter salt used

Practices employed on most campuses

- 87.5% Cover stored salt
- 87.5% Use equipment with adjustable rates
- 62.5% Measure pavement temperature*

Practices employed on a couple campuses

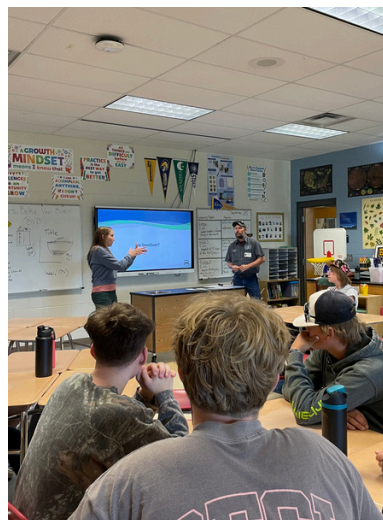
- 25% Pre-wet salt
- 25% Treated salt

SUMMARY

- Many foundational best practices are employed across all campuses.
- Future equipment purchases should be pre-wet capable and allow for adjustable application rates.
- Measuring pavement temperature is a low-cost practice essential to inform deicer selection and application rate decision-making.

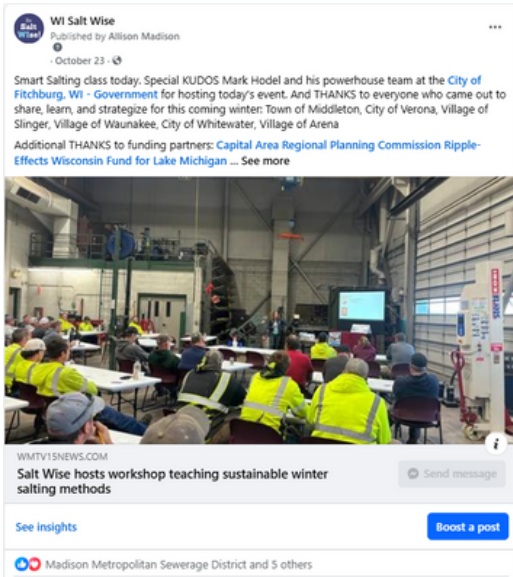
PUBLIC OUTREACH

Presentations for the Fox Wolf-Watershed Conference, Fox River Summit, Aspirus Hospital Green Team, Madison District 11 Town Hall, Association for the Sciences of Limnology and Oceanography Conference, League of Women Voters, Wood County Master Gardeners and additional outreach activities pictured.



Clockwise from top left: Wausau Business Expo, Lake Wingra Watershed volunteer outreach, East Troy HS science classroom presentation, Earth Day Every Day Fair.

SOCIAL MEDIA



Facebook

1.1K followers
29.9K reach



Instagram
596 followers
12.8K reach



YouTube

269 followers
2.7k views
(in addition to Winter Salt Week)

MEDIA COVERAGE

TITLE	MEDIA OUTLET	MONTH
Wisconsin Organization Wants to Reduce Salt Use	WFJW Rhinelanders	January
Minnesota Road Salt artwork meant to raise awareness around salt pollution	Milwaukee Journal Sentinel	January
How much salt is too much?	WAOW Wausau	January
Madison to use less salt on roads to protect our water	WORT Madison	January
'It's a toxin. It's a permanent pollutant.': Advocates detail how to reduce salt use this winter	WKOW27 Madison	January
Wisconsin DNR: Cut down on road salt use this winter	Channel 3000 Madison	January
Wisconsin DNR: Cut down on road salt use this winter	Fox 47 Madison	January
Winter Salt Week Interview	WGTD Kenosha	January
Hold the salt: University uses brine to help reduce water pollution	NBC26 Green Bay	January

MEDIA COVERAGE

TITLE	MEDIA OUTLET	MONTH
DNR: Reduce Salt Use this Winter	Lake Geneva Regional News	January
DNR and Wisconsin Salt Wise say too much salt usage during the winter can affect the water	WEAU Eau Claire	January
The Road to Salt Reduction	Adirondack Explorer	January
Grit salt on our roads is killing freshwater wildlife. What can we do?	New Scientist	January
Winter Salt Awareness Week shows affects of overuse of salt in Wisconsin	Spectrum News1	January
Winter Salt Awareness Week, learning how much salt is too much	WDIO Duluth	January
What winter does to roads, sidewalks, and our environment	The Larry Meiller Show, WPR	January
Morning radio show interview	I Heart Radio	February
Road salt is making the upper Mississippi saltier - what are northern cities and counties doing about it?	La Crosse Tribune	February
USDA Forest Products Lab staff develops brine to cut back salt use	Channel 3000 Madison	March

MEDIA COVERAGE

TITLE	MEDIA OUTLET	MONTH
Snowplow rally on Capitol Square aims to raise awareness of bill to reduce winter salt use	Channel 3000 Madison	March
How Can We Reduce Salt Pollution (3-part series)		
Polluting our land and water and increasing Lake Michigan’s salinity	Milwaukee Journal Sentinel	March-April
Rising levels of sodium and chloride can harm all species, and threaten humans		
Changes in state law needed, but there are also simple solutions to reduce over-salting		
Evers vetoes road salt bill despite pollution across Wisconsin waters	Milwaukee Journal Sentinel	April
The Impacts of Road Salt on Local Waterways	WXPR Rhineland	April
Road salt’s impacts on local bodies of water	Channel 12 Rhineland	April
Allison Madison, Program Director for the group WI Salt Wise	Civic Media Wausau	September
Green County Highway Department demonstrates use of cheese brine for icy roads	Channel 27 Madison	October
Salt of the Earth: Highway Workers meet to plan for winter	Monroe Times	October

MEDIA COVERAGE

TITLE	MEDIA OUTLET	MONTH
Salt Wise hosts workshop teaching sustainable winter salting methods	Channel 15 Madison	October
Wisconsin Salt Wise discusses smart salting ahead of winter	Channel 27 Madison	October
Salt Wise Open House helps prevent salt from entering waterways	Channel 8000 La Crosse	October
Winter Roads open house looks at less salt preps	Channel 19 La Crosse	October
Calumet County showcases snow, ice control equipment improving roads and the environment	Channel 11 Green Bay	October
Calumet County Highway Department hosts winter equipment open house to promote snow and ice control	Channel 5 Green Bay	October
Calumet Co. Highway Department showcases snow and ice control equipment	Channel 2 Green Bay	October
Madison prepares for potential severe winter weather with a different road salt	Channel 15 Madison	November
Milwaukee County communities getting ready to de-ice roads on a budget	Spectrum News	November



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