

Project Proposal

Date 8-31-20

Property Address 9708 N Leake Drive

Zoning Shoreland

- | | |
|--|--|
| <input type="checkbox"/> Accessory Structures/Generators
<input type="checkbox"/> Additions/Remodel
<input checked="" type="checkbox"/> Bluff Management
<input type="checkbox"/> Commercial Signage
<input type="checkbox"/> Decks/Patios
<input type="checkbox"/> Fence
<input type="checkbox"/> Fire Pits
<input type="checkbox"/> Landscaping requiring Impervious Surface/Fill/Excavation Permit | <input type="checkbox"/> New Construction
<input type="checkbox"/> Play Structures
<input type="checkbox"/> Recreational Facilities/Courts
<input type="checkbox"/> Roofs
<input type="checkbox"/> Solar Panels/Skylights
<input type="checkbox"/> Swimming Pools
<input type="checkbox"/> Windows/Doors-change exceeds 25% of opening
<input type="checkbox"/> Other |
|--|--|

Proposed project details (type of work, size, materials, etc.):

Placement of 100 tons of armor stone and 25 tons of bedding stone along the existing shoreline. The WDWK Chapter 30 Permit Exemption application was sent on 8-28-20.

***** For Office Use Only *****

Yes	No	
<input type="checkbox"/>	<input type="checkbox"/>	Color photographs showing project location, elevations and surrounding views
<input type="checkbox"/>	<input type="checkbox"/>	Two (2) complete sets of building plans (including elevations and grading)
<input type="checkbox"/>	<input type="checkbox"/>	Survey
<input type="checkbox"/>	<input type="checkbox"/>	Samples or brochures showing materials, colors and designs
<input type="checkbox"/>	<input type="checkbox"/>	Application Fee
<input type="checkbox"/>	<input type="checkbox"/>	Parcel Number (description = 1077515)
<input type="checkbox"/>	<input type="checkbox"/>	ARC Agenda Date:
<input type="checkbox"/>	<input type="checkbox"/>	Building Permit
<input type="checkbox"/>	<input type="checkbox"/>	Fill Permit
<input type="checkbox"/>	<input type="checkbox"/>	Impervious Surface Permit
<input type="checkbox"/>	<input type="checkbox"/>	Plan Commission/Conditional Use Permit
<input type="checkbox"/>	<input type="checkbox"/>	Tax Key Number (17-050-02-05-001)
<input type="checkbox"/>	<input type="checkbox"/>	Right-of-Way/Excavation Permit
<input type="checkbox"/>	<input type="checkbox"/>	Variance Required

SHORELINE PROTECTION DESIGN

9708 & 9712 N LAKE DRIVE, VILLAGE OF BAYSIDE, WI

MILLER

ENGINEERS
SCIENTISTS

3428 S 12TH STREET
SHEBOYGAN, WI 53081
(727) 458-8184

VILLAGE OF BAYSIDE
9708 & 9712 N LAKE DR
HOMEDANESS
VILLAGE OF BAYSIDE



DRAWING INDEX

SHEET NO.	DESCRIPTION
1	TITLE SHEET, INDEX, AND LOCATION MAP
2	PLAN VIEW SHORELINE PROTECTION DESIGN
3	MARTENS (9708 N LAKE DR) SHORELINE PROTECTION DESIGN
4	MATTHEWS/O'CONNOR (9712 N LAKE DR) SHORELINE PROTECTION DESIGN



Roger G. Miller 5/16/2020

I HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF WISCONSIN.

TITLE SHEET, INDEX, AND LOCATION MAP

MILLER

ENGINEERS
SCIENTISTS

3428 S 12TH STREET
SHEBOYGAN, WI 53081
(727) 458-8184

VILLAGE OF BAYSIDE
9708 & 9712 N LAKE DR
HOMEDANESS
VILLAGE OF BAYSIDE

SHORELINE PROTECTION DESIGN
MARTENS/O'CONNOR
9708 & 9712 N LAKE DR
VILLAGE OF BAYSIDE, WI

SCALE
HOR.
VER.

DATE
5/16/2020

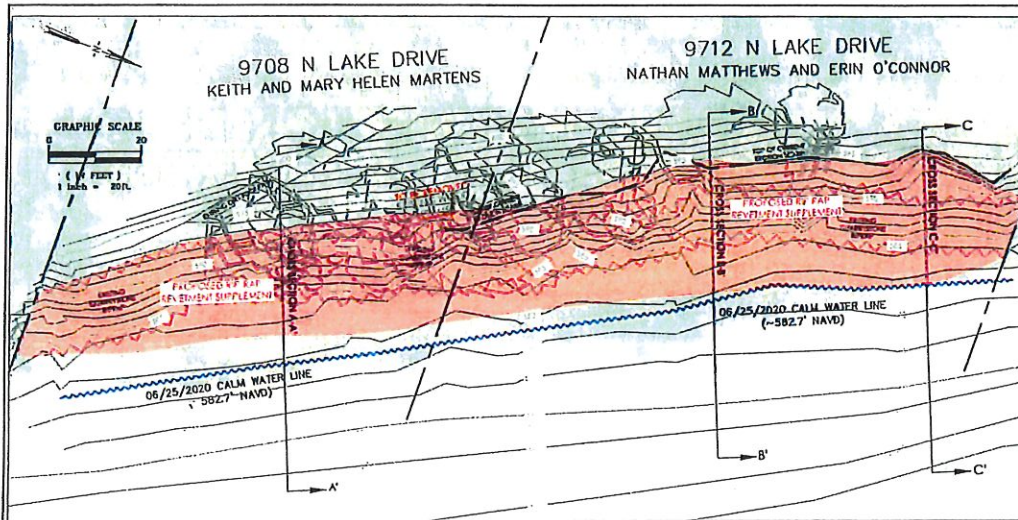
JOB
20201A

BY
RGM

CL
RGM

SHEET
1 4

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GENERAL NOTES

1. DIMENSIONS, WHEN SHOWN, TAKE PRECEDENCE OVER SCALE. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN FIELD.
2. THE PROPOSED IMPROVEMENTS SHALL BE CONSTRUCTED ACCORDING TO THE ORDINANCES AND REQUIREMENTS OF THE VILLAGE OF BAYSIDE AND THE STATE OF WISCONSIN DOT, DSPS, AND DNR REQUIREMENTS AND PER THE STATE OF WISCONSIN STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION, CURRENT EDITION.
3. THE CONTRACTOR IS RESPONSIBLE FOR EXAMINING ALL EXISTING SITE CONDITIONS PRIOR TO BEGINNING CONSTRUCTION AND IS TO COMPARE THE SITE CONDITIONS TO THOSE SHOWN ON THE ENGINEERING PLANS. ANY DISCREPANCIES ARE TO BE AND RESOLVED PRIOR TO THE START OF CONSTRUCTION.
4. IF ANY ERRORS, DISCREPANCIES OR OMISSIONS ON THE PLANS BECOME APPARENT DURING CONSTRUCTION, PROVIDE IMMEDIATE NOTIFICATION.
5. THE CONTRACTOR IS RESPONSIBLE FOR SITE SAFETY DURING CONSTRUCTION OF THE PROPOSED IMPROVEMENTS.
6. THE RESTORATION OF EXISTING IMPROVEMENTS WHICH ARE DAMAGED DURING CONSTRUCTION, IS CONSIDERED INCIDENTAL AND SHALL BE DONE PER THE REQUIREMENTS OF THE MUNICIPALITY AND SHOULD INCLUDE TOPSOIL, SEEDING AND MULCHING.
7. THE PRIME CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE WORK OF ALL OTHER CONTRACTORS INVOLVED WITH CONSTRUCTION OF THE PROPOSED IMPROVEMENTS AND FOR REPORTING ANY DISCREPANCIES BETWEEN THESE PLANS AND PLANS PREPARED BY OTHERS FOR THE PROJECT.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL REQUIRED INSPECTIONS.

ENVIRONMENTAL NOTES

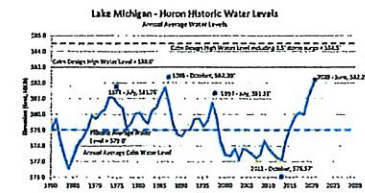
BECAUSE WORK WILL BE PERFORMED ALONG THE SHORELINE OF LAKE MICHIGAN, THE FOLLOWING STEPS SHALL BE TAKEN TO AVOID TRANSPORTING INVASIVE AND EXOTIC VIRUSES AND SPECIES:

1. INSPECT AND REMOVE AQUATIC PLANTS, ANIMALS, AND MUD FROM THE EQUIPMENT BEFORE MOBILIZING TO THE SITE AND PRIOR TO LEAVING THE SITE.
2. DRAIN ALL WATER FROM EQUIPMENT THAT COMES IN CONTACT WITH INFESTED WATERS BEFORE MOBILIZING TO THE SITE. DRAIN ALL WATER FROM EQUIPMENT THAT COMES IN CONTACT WITH WATER PRIOR TO LEAVING THE SITE.
3. DISPOSE OF AQUATIC PLANTS AND ANIMALS IN THE TRASH, NEVER RELEASE OR TRANSFER AQUATIC PLANTS, ANIMALS OR WATER FROM ONE WATERBODY TO ANOTHER.
4. WASH EQUIPMENT WITH HOT (>104° F) OR HIGH PRESSURE WATER, STEAM OR ALLOW YOUR EQUIPMENT TO DRY THOROUGHLY FOR 5 DAYS.

SEQUENCE OF CONSTRUCTION (REQUIRES BARGE ACCESS)

1. REMOVE AND DISPOSE OF FALLEN TREES, STANDING TREES, AND DEBRIS WITHIN THE FOOTPRINT OF THE IMPROVEMENTS AND PROPERLY DISPOSE OF OFF SITE. DO NOT DISCHARGE ANY MATERIALS INTO LAKE MICHIGAN.
2. PLACE BEDDING STONE OVER THE TOP OF EXPOSED CLAY ABOVE EXISTING RIPRAP.
3. PLACE ARMOR STONES DIRECTLY OVER THE EXISTING CONCRETE RUBBLE OR BEDDING STONE WHERE NEEDED TO SUPPLEMENT EXISTING RIPRAP TO CONFORM TO CROSS-SECTIONS.

THE CONTRACTORS SHALL FOLLOW THE WDNR TECHNICAL STANDARDS DURING CONSTRUCTION. THESE STANDARDS ARE AVAILABLE ONLINE AT [HTTP://DNR.WIS.GOV/TOP/C/STORMWATER/STANDARDS/CONST_STANDARDS.HTML](http://dnr.wis.gov/top/C/STORMWATER/STANDARDS/CONST_STANDARDS.HTML)

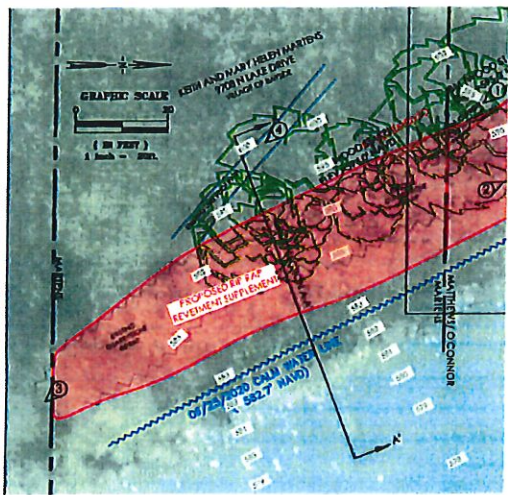


AREA OF CONSTRUCTION RELATED GROUND DISTURBANCE

HOMEOWNER	ADDRESS	AREA OF DISTURBANCE
MARTENS	9708 N LAKE DR	2,100 SF ²
MATTHEW/O'CONNOR	9712 N LAKE DR	3,100 SF ²

PLAN VIEW SHORELINE PROTECTION DESIGN

MILLER
 SHORELINE PROTECTION DESIGN
 NATHAN MATTHEW O'CONNOR
 9708 & 9712 N LAKE DR
 VILLAGE OF BAYSIDE, WI
 SCALE: HOR 1"=20', VER 1"=2'
 DATE: 8/12/2020
 JOB: 20201-A
 BY: MW
 CHK: JG4
 PLOT: 2 4



LIMESTONE/DOLOMITE QUARRYSTONE

LARGE QUARRYSTONE (UP TO ELEVATION 588 FT)

AVE. DIM.	PERCENT
24"	1500# NONE SMALLER THAN THIS
30"	2500# AT LEAST 50% OF TOTAL WEIGHT OF THIS SIZE OR LARGER
36"	4000# NONE LARGER THAN THIS

MEDIUM QUARRYSTONE (ABOVE ELEVATION 588 FT)

AVE. DIM.	PERCENT
18"	500# NONE SMALLER THAN THIS
24"	1500# AT LEAST 50% OF TOTAL WEIGHT OF THIS SIZE OR LARGER
30"	2500# NONE LARGER THAN THIS

📍 PHOTO LOCATION

NOTE
 LIMESTONE/DOLOMITE QUARRYSTONE SHALL BE ANGULAR TO 3/8" ANGULAR AND OF SUITABLE ROCK QUALITY THAT MEETS ARMY CORP. OF ENGINEERS STANDARDS. THE MAXIMUM DIMENSION SHALL NOT EXCEED TWICE THE MINIMUM DIMENSION OR MORE THAN 15% OF THE COMBINED TOTAL WEIGHT OF THE STONES.

**MARTENS (9708 N LAKE DR)
 REVETMENT ESTIMATED PROJECT QUANTITIES**
 TONNAGE OF LARGE ARMOR STONES = 80 TONS
 TONNAGE OF MEDIUM ARMOR STONES = 20 TONS
 TONNAGE OF BEDDING STONES = 25 TONS

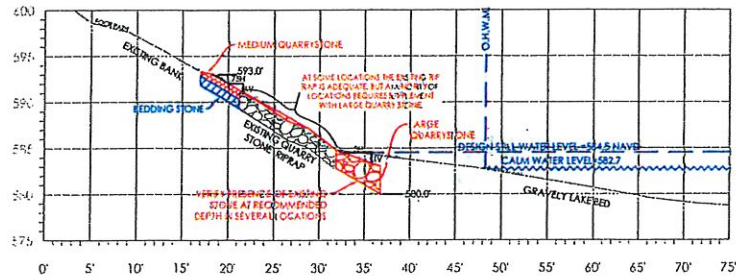


PHOTO 1: LOOKING SOUTHEAST AT THE NORTH END OF THE MARTENS PROPERTY ALONG THE BASE OF THE BLUFF.



PHOTO 2: LOOKING NORTH AT EXISTING RIP RAP REVETMENT ALONG THE SUBJECT PROPERTY.



PHOTO 3: LOOKING SOUTH AT THE SOUTH BOUNDARY BETWEEN THE MARTENS PROPERTY AND THE SOUTHERN NEIGHBOR.



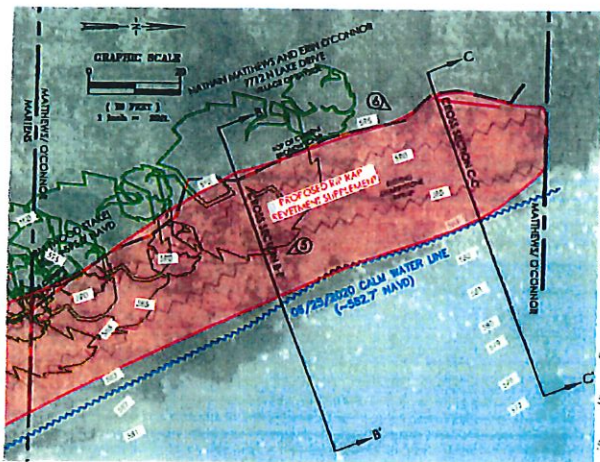
PHOTO 4: LOOKING SOUTHEAST ALONG THE MARTENS' FOOT PATH LEADING TO BEACH.

MARTENS (9708 N LAKE DR) SHORELINE PROTECTION DESIGN

MILLER

SHORELINE PROTECTION DESIGN
 MARTENS & MARTENS' COORDINOR
 VILLAGE OF MANTOSH, WI

SCALE: HORIZ. 1" = 20'
 VERT. 1" = 5'
 DATE: 8/2/2023
 JOB: 20231-A
 BY: [signature]
 CHECKED: [signature]
 SHEET: 3 OF 4



**MATTHEWS/O'CONNOR (9712 N LAKE DR)
REVEINEMENT ESTIMATED PROJECT QUANTITIES**

TONNAGE OF LARGE ARMOR STONES = 170 TONS
 TONNAGE OF MEDIUM ARMOR STONES = 55 TONS
 TONNAGE OF BEDDING STONES = 50 TONS

LIMESTONE/DOLOMITE QUARRYSTONE

LARGE QUARRYSTONE (UP TO ELEVATION 587 FT)

AVE. DIM.	PIECE WT.
24"	1500# NONE SMALLER THAN THIS 2500# AT LEAST 50% OF TOTAL WEIGHT OF THIS SIZE OR LARGER 4000# NONE LARGER THAN THIS
36"	

MEDIUM QUARRYSTONE (ABOVE ELEVATION 587 FT)

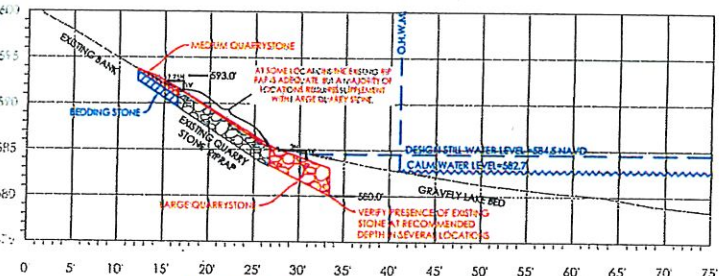
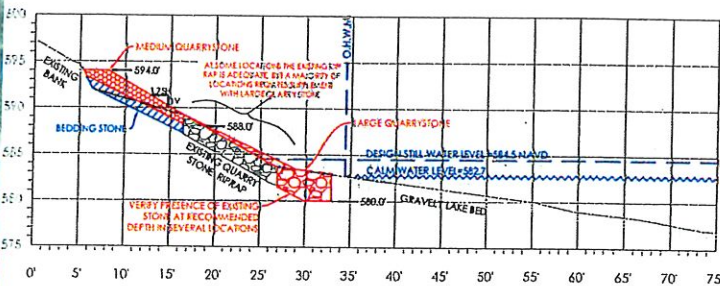
AVE. DIM.	PIECE WT.
18"	300# NONE SMALLER THAN THIS 1500# AT LEAST 50% OF TOTAL WEIGHT OF THIS SIZE OR LARGER 2500# NONE LARGER THAN THIS
24"	
30"	

PHOTO LOCATION

NOTE
 LIMESTONE/DOLOMITE QUARRYSTONE SHALL BE ANGULAR TO SUB-ANGULAR AND OF DURABLE ROCK QUALITY THAT MEETS ARMY CORP OF ENGINEERS STANDARDS. THE MAXIMUM DIMENSIONS SHALL NOT EXCEED TWICE THE MAXIMUM DIMENSION OR MORE THAN 15% OF THE COMBINED TOTAL WEIGHT OF THE STONES.

"BEDDING" STONE

SHALL CONSIST OF QUARRY "BREAKER RUN", "SHOT RUN", OR "CLIFFER CUTTINGS" OF 6" MAX. SIZE AND SHALL BE A WELL-GRADED MATERIAL THAT CONTAINS SAND AND GRAVEL SIZES. AT LEAST 50% BY WEIGHT SHALL BE GREATER THAN 2", AND NOT MORE THAN 7% BY WEIGHT SHALL PASS THE #200 SIEVE.



**PHOTO 5: LOOKING SOUTH TOWARDS
MARTENS PROPERTY AT EXISTING
RIP RAP.**



**PHOTO 6: LOOKING EAST AT EROSION ABOVE
EXISTING RIP RAP. FILL WITH STONE AS
SHOWN ON CROSS SECTIONS.**

MATTHEWS/O'CONNOR (9712 N LAKE DR) SHORELINE PROTECTION DESIGN

MILLER

SHORELINE PROTECTION DESIGN
 MATTHEWS & MATHIAS/O'CONNOR
 9705 S. 9712 N LAKE DR
 VILLAGE OF SANDOZ, WI

SCALE
 HORIZ. 1"=20'
 VERT. 1"=10'

DATE: 8/14/2020

JOB: 20031A

BY: BFW

CHK: BFW

DATE: 8/14

SHEET
 4
 OF 4



PHOTO 1: LOOKING SOUTHEAST AT THE NORTH END OF THE MARTENS PROPERTY ALONG THE BASE OF THE BLUFF .



PHOTO 2: LOOKING NORTH AT EXISTING RIP RAP REVETMENT ALONG THE SUBJECT PROPERTY.





**PHOTO 3: LOOKING SOUTH AT THE SOUTH BOUNDARY
BETWEEN THE MARTENS PROPERTY AND THE
SOUTHERN NEIGHBOR.**



**PHOTO 4: LOOKING SOUTHEAST ALONG THE MARTENS'
FOOT PATH LEADING TO BEACH.**