PERMIT

PERMIT MUST BE POSTED AT PROJECT SITE, VISIBLE FROM ROAD

Permit Number  19-59  Permit Date:  10/21/19

Permit Granted To:  Bradley & Barbara Richards

Project Address  1805 Villa Lane

City, State, ZIP:  Detroit Lakes, MN 56501

Project Type  Residential stormwater management for lot coverage greater than 25% impervious surface coverage: 640 SF addition; removal of 450 SF concrete pad; installation of french drains (144 Cubic Ft) and raingarden (281 Cubic Ft).

Permit Granted with the Following Conditions to be Satisfied by the Permit Holder:

1) Erosion Prevention and Sediment Control Best Management Practices will be installed to stabilize and contain disturbed soils on site.
2) Installation and Maintenance of stormwater management practices per Stormwater Management Plan (French drains and raingarden) dated October 18, 2019 and attached calculations, installation and maintenance requirements.

**All measures must conform to other applicable Zoning and Shoreland Ordinance regulations (Becker County, City of Detroit Lakes, Minnesota Pollution Control Agency, MN Department of Natural Resources)

This permit is valid for 18 months.

Permit may be revoked at any time upon violation of Pelican River Water Management Rules. Any changes to this site permit results in nullification of this permit and a new permit will have to be obtained.

Signature of Tera Guetter, District Administrator
Square footage Calculations
1085 Villa Lane - DL

House total sq ft  3432
1568 main area
768 Right Side
868 garage
168 Sunroom
60 Front Step

3432

Front side walk 106

Driveway - main area 1157
pad 450 to be removed on map solid red
Current total 1607

Pool cement area
Backyard parks 1589

Current total sq ft. 6734 28.1%

Proposal for addition

"take out pad" - 450

Sq ft. for new addition
20x32 + 640

New total 6924 28.9%
Stormwater Mitigation For Brad Richards; 1085 Villa Lane

Total lot area = 23,888 sq ft
Proposed imp area w/ addition = 6,924 sq ft
Total % = 28.9% (3.9% over base standard)

Stormwater mitigation requirement
3:1 basis of 1.1" rain over base standard

\[
\left(\frac{3 \times 1.1}{12}\right) \times (9525 \text{ ft}^2) = 761 \text{ ft}^3 \text{ required storage}
\]

Stormwater Plan Sizing

French Drain \((15 \text{ ft} \times 4 \text{ ft} \times 3 \text{ ft}) \times 2 = 450 \text{ cu ft} = 360 \times .4 = 144 \text{ ft}^3\)

Rain Garden

\((47 \times 6 \text{ ft}^2) \times (1\text{' deep}) = 117 \text{ ft}\)

\(117 \times 144 = 261 \text{ ft}^3 \text{ provided}\)
PONDED VOLUME

EL 100.5 TO 101.05 (NWL)

EL 100.0

EL 99.0

EL 98.75

EL 98.0

MINIMUM 3" OF 1/4-INCH (TYP.) "BUCKSHOT" WASHED ROCK

6" HDPE CORRUGATED DRAIN TILE WITHOUT SOCK

(1" - 1 1/2") WASHED ROCK

MIN 60' 30'

EL 96.0

24' 4'

70% SAND 30% MN/DOT GRADE 2 COMPOST
Ground level; runoff enters the rain garden through the inflow of ponding water. 3" of mulch allows excess water to exit the garden. 1'-2' of planting soil. Water soaks into the ground.
# Infiltration Basin/Raingarden Maintenance Guide

<table>
<thead>
<tr>
<th>Infiltration Basin Inspection and Maintenance Guidelines</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Inspection Item</strong></td>
</tr>
<tr>
<td>Check ponding area for debris and undesirable vegetation.</td>
</tr>
<tr>
<td>Examine pond perimeter for erosion</td>
</tr>
<tr>
<td>Monitor sediment deposition in pond.</td>
</tr>
<tr>
<td>Monitor infiltration quality of pond</td>
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</tbody>
</table>

*Rain Garden Infiltration Restoration – Once monitoring of rain gardens shows standing water after 48 hours rain gardens shall have the top 6” of soil removed. After removal of soil subgrade shall be scarified and removed soil replaced with soil conforming to MPCA Mix A Bioretention Media Composition. Rain Garden shall be monitored after restoration to ensure that rain garden infiltrates water with 48 hours. If after restoration rain garden still ponds water longer than 48 hours the rain garden restoration shall be repeated except that a minimum of 24” of soil shall be removed and replaced.*

Date: October 9th, 2017
Pelican River
watershed district
211 Holmes St. W. Suite 201 | Detroit Lakes MN 56501
Phone (218) 846-0436 | Fax (218) 846-0778 | WWW.PRWD.org

PERMIT APPLICATION FORM

Property Owner(s): Bradley Richards
Mailing Address: 1901 County Hwy 5, Detroit Lakes MN 56501
Phone: 218-847-5658  Cell: 218-234-6358
Email:
Project Address: 1905 Villa Lane, Detroit Lakes MN 56501
Parcel ID Number(s): 490932517

Contractor Information (list all)
Name: Feld Excavating
Company:
Address:
Phone:
Cell:

PERMIT APPLICATION PURPOSE (indicate all which apply)

Small Site Permits
- Shore Impact Zone Alterations (including land, impervious surface, and vegetation alterations including Sand Blanket, Rip-Rap, Sidewalk, building, tree removal, shoreline plantings or changes, Ice Ridge Repair)
- Bluff Impact Zone/Steep Slope Alterations within Shoreland District (including land, impervious surface, and vegetation)
- Retaining Walls within Shore/Bluff Impact Zone
- Residential Stormwater Management - >25% impervious lot coverage and less than 10,000 ft²
- Public Drainage - Becker County Ditch 11-12; 13, 14 - Dredging, filling, diking; culvert, bridge crossings; bank stabilization; channelization; lateral construction or repair; grass, shrub or tree removal within 16.5 feet; snow storage within 50 ft of ditch or latera

Large Site Permits
- Residential Stormwater management - greater than 10,000 ft² impervious within Shoreland District
- Commercial Stormwater Management (> 25% impervious lot coverage or > 10,000 ft²)
- Stormwater management - Greater than 1 acre impervious surface
- Stormwater management - Subdivision, Planned Unit Developments (PUD’s), Plats, Storage Condors, Developments based upon certified surveys
- Stormwater management - Changes to, including construction or re-construction, of stormwater infrastructure, private or public highways, roads, streets, parking lots, Public Water Access, bridges, culverts, and inlets to Waters of the State

Project Purpose/Description: (Please be specific)

Lake Name (if applicable):

*Remove 450 SF pad
*City of DL Mitigate* Addition 640 SF

Proposed start date: 10-18-19  Proposed completion date: 6-30-20

ADDITIONAL PERMITS

City of Detroit Lakes
Permit REQ'D □  RECD □  Becker County
Permit REQ'D □  RECD □
Variance REQ'D □  RECD □  Variance REQ'D □  RECD □
Mitigation REQ'D □  RECD □  Mitigation REQ'D □  RECD □

MN DNR; MN PCA; Becker SWCD
Permit REQ'D □  RECD □
NPDES REQ'D □  RECD □

If variances are required, the approved conditions need to be included for permit approval.

*Additional permits may be required in addition to Pelican River Watershed District Permit
Please attach copies of all permits and variances received

*Continue to page 2 for signature and permit application checklist

May 2019
PERMIT APPLICATION SUBMISSION CHECKLIST

- Completed permit application, signed by the Property Owner, or notarized Authorized Agent
- Site plan, erosion prevention and sediment control plan, maintenance plans, and other information and calculations (soil borings percolation test results, etc.) as per the District Engineer Technical Memo revised November 7, 2018
- Application and Field inspection fees according to the most recent schedule

TERMS OF THE PERMIT

Applying for a permit issued through the Pelican River Watershed District (PRWD) in no way precludes obligation for permit application that may be required through OTHER governmental agencies. Any work performed prior to obtaining all required authorizations may be subject to Federal, State and/or administrative, civil, and/or criminal penalties. No liability shall be imposed on the District or any of its officers, agents or employees on official or personal grounds, on account of the granting of this permit, on account of any damage to any person or property resulting from any act or omission of the Permittee or any of its agents, employees or contractors relating to any matter hereunder. This permit shall not be construed as limiting any legal claim or right of action of the District against the Permittee, its agents, employees, or contractors for the violation of, or failure to comply with, the provisions of the permit or applicable provisions of law.

When all items have been satisfactorily completed and the District determines the project meets the District’s Rule requirement, this permit will be issued. The permit may be picked up at the District office, or it will be mailed to the designated address. A copy of the approved permit will be sent to the applicable local governmental entity (Becker or Ottertail County, City of Detroit Lakes Zoning departments).

The permit will be valid for eighteen (18) months from the date of issuance, unless otherwise suspended or revoked. A permit may be extended at no charge, provided the property owner notifies the District in writing stating the reasons for extension. Any plan changes, and related project documents must also be included in the extension application. The District must receive the extension application at least thirty (30) day prior to the permit’s expiration date as issued.

If changes are made to the permitted plans for this project, changes must be submitted to the District (in duplicate form) for review prior to installation or completion occurs. If changes to the original (permitted) plans are approved, an amended permit will then be issued.

This permit may be terminated by the Board of Managers without notice at any time deemed necessary for the management of the water resources of the District, or in the interest of public health and welfare, or for violation of any of the provision of this permit.

A permit surety may be required of the permit holder or applicant. A surety is a monetary sum (an amount set by the Board of Managers, District staff and/or the District engineer after review of the project application or approved permit) provided by the applicant/permittee to the District to ensure the project is completed as designed and in compliance with District Rules. The District returns the money to the applicant/permittee after all permit conditions are met and the project is complete. If the District requires a surety, the applicant/permittee must provide the District the surety amount in the form of a check made out to the Pelican River Watershed District, or a Performance Bond, or Letter of Credit.

PERMIT APPLICATION AGREEMENT

“I understand that, as a Permittee, I am legally accountable to ensure compliance with the terms and conditions of the permit. I understand that I am not authorized to begin the project until I received the permit and the permit is posted as directed on the project site. If the project is modified, I will obtain approval by the District before I continue with the project. I authorize the District, and its agents, employees, officers, and contractors to enter the project site to perform any inspection or work authorized by the permit or any applicable law.”

“I certify that I have thoroughly read and understand the information on this permit application, including submittal requirements.”

Signature: ___________________________ Date: 8/12/19

(Property owner, or Authorized Agent signature)  

Permit Number _________________________

ACTION BY THE PELICAN RIVER WATERSHED DISTRICT

The above application is APPROVED / DISAPPROVED this 25 ______ day of October ______, 20________ by the Pelican River Watershed District

By: ________________________________

its: ________________________________