



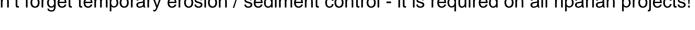
### Included in this packet:

- Frequently Asked Questions (FAQs)
- Impervious Surface Coverage & Landscaping for Stormwater Worksheet
- Blank Stormwater Site Plan
- Permanent Stormwater and Temporary Erosion / Sediment Control BMPs
- Stormwater Plan Examples
- List of Contractors Who Have Attended a Crow Wing County Stormwater Workshop

### Steps to Achieving Stormwater Management:

- 1. Determine size of lot (from tax statement or online GIS)
- 2. Determine amount of impervious surface coverage using calculation sheet
- 3. Determine amount of req. stormwater storage area based on amount of impervious
- 4. Determine location and type of Best Management Practices (BMPs) for permanent treatment of stormwater
- 5. Draw it up on site plan sheet and submit to P&Z Administrator for review
- 6. Implement plan as described and notify P&Z Administrator when installation is finished

Don't forget temporary erosion / sediment control - it is required on all riparian projects!



## Frequently Asked Questions—Landscaping for Stormwater Management





Land use requirements in Crosslake are governed by the specific provisions of the Crosslake Land Use Ordinance, which is available on our website @ www.cityofcrosslake.org. Article 20 specifies the stormwater management requirements of the Ordinance. Also, please refer to the *Impervi-ous Surface Coverage & Landscaping for Stormwater Worksheet* along with the *Stormwater and Temporary Erosion & Sediment Control BMPs* as part of the City's Stormwater Packet. Feel free to contact our office with any questions.

#### 1. What is stormwater?

Stormwater is rain water that does not soak into the ground during a precipitation event and typically runs off from hard (or "impervious") surfaces such as roofs, driveways, sidewalks, patios, and also lawns into nearby receiving water bodies. It is a concern because of the volume of water & sediment washed into downstream water bodies as well as the pollutants (such as gasoline, oils, heavy metals, trash) and nutrients carried by this runoff. Phosphorus is one nutrient often found in stormwater run-off and is especially common on fertilized lawns. In lakes or rivers, 1 pound of phosphorus can pro-duce 300-500 lbs of algae growth.

#### 2. Why does Crosslake regulate stormwater?

Stormwater management is one of the most important things that can be done to keep our lakes and rivers clean. The purposes of stormwater management in Crosslake are:

- To protect surface waters and private property from damage resulting from stormwater runoff and erosion
- Ensure the annual stormwater runoff rates and volumes from post-development site conditions mimic the annual runoff rates and volumes from predevelopment site conditions
- Ensure site development minimizes the generation of stormwater and maximizes stormwater treat-ment and infiltration onsite
- Protect water quality from nutrients, pathogens, toxins, debris, and thermal stress

#### 3. When is stormwater management required?

For residential property, the City of Crosslake Land Use Ordinance allows up to 25% of the total lot area, excluding road right-of-way area, to be comprised of hard surfaces (i.e. "impervious"). If the percentage of impervious surface is greater than 15%, a stormwater management plan is required.



over...

This document is intended to assist our customers in answering frequent questions about land use requirements in Crosslake. Please note that this guide is only a summary and not intended as a legal authority on specific land use requirements.

### Frequently Asked Questions—Landscaping for Stormwater Management

#### 4. How do I calculate my impervious surface coverage?

Crosslake has provided an *Impervious Surface*Coverage & Landscaping for Storm-water
Worksheet to assist in calculating the amount
of impervious surface coverage on an individual
lot. In addition, the interactive Link GIS
mapping application on the Crow Wing County
website <a href="https://www.crowwing.us">www.crowwing.us</a> has high-resolution
aerial photos along with a measure tool (shown
in the graphic to right) that can be used to
calculate impervious surface area.

Measure

Segment (ft.):
0.0000

Total (ft.):
317.4669

Area (sq.ft.):
3,124.4700

Acres:
0.0717

Measure tool

#### **5.** How much stormwater runoff must be treated?

All Stormwater plans shall be designed for permanent on-site treatment of <u>one inch</u> of stormwater run-off on <u>all</u> impervious surface coverage on the lot. This means that a volume of water equal to one inch multiplied by the area of impervious surface must be treated. For example, 2500 sq. ft of impervi-ous / 12 (in/ft) = 208.3 cubic ft of storage. To store 208 cubic ft means that a 12" deep stormwater BMP would also be 208 square ft in size. A 6" deep BMP would need to be twice as large (416 sq. ft). This information can be computed using the *Impervious Surface Coverage & Landscaping for Storm-water Worksheet* found in the Crosslake *Stormwater Packet* and on the Crosslake website www.cityofcrosslake.org

#### 6. What methods of treatment are allowed?

Crosslake prefers that stormwater runoff be managed onsite where feasible. Berms, rain gardens, infiltration basins, and swales are often easier to install, less expensive, look better, and can work as well as ponds, pipes, and larger conveyance systems. In addition, directing runoff to existing natural depressions, drainage ways, and vegetated soil surfaces is a simple way to treat runoff and prevent erosion. A number of different approaches may be necessary given lot constraints and topographic limitations.

### 7. What is required on a stormwater plan?

The Crosslake *Impervious Surface Coverage & Landscaping for Stormwater Worksheet* includes room for the applicant to draw the existing and proposed impervious surfaces along with contours, drainage arrows, and the location of stormwater BMPs (along with sizes and setback distances). Existing natural stormwater treatment areas should also be shown and can be included in your plan. Example plans are also available in the *Stormwater Packet*. All plans are approved by the Crosslake Planning and Zoning Administrator. Follow-up inspections will be conducted to verify that they are effectively implemented.

#### **Protect your investment!!!**

BMP's used in conjunction with your building plans often can be incorporated as a landscape feature to enhance the aesthetics of your property.



Landowner / Parcel #:	Date:	
Lot Imper	ous Surface Coverage & Landscaping for Stormwater Worksheet	

Please use the table below to calculate your impervious surface coverage. Impervious coverage is limited to 25% of the total lot area. Calculate out all that apply to your situation. If a structure has odd dimensions or if using to size stormwater basins, multiple rows / sheets may be needed. If total imp. of irregular structure or driveway is known, just multiply by 1.

<b>Existing Structures</b>	Length (ft)		Width (ft)		Total (in sq. feet)
	(ft)	Х	(ft)	=	(sq ft)
House, garage, shed	(ft)	Χ	(ft)	=	(sq ft)
Boathouse Greenhouse	(ft)	Χ	(ft)	II	(sq ft)
Other (Dog Kennel, etc.)	(ft)	Χ	(ft)	=	(sq ft)
	(ft)	Χ	(ft)	=	(sq ft)
Driveways* & Landscaping:					
Driveway*, Parking Area, Apron,	(ft)	Χ	(ft)	II	(sq ft)
Boat Ramp, Sidewalk,	(ft)	Χ	(ft)	II	(sq ft)
Patio, Paving Stones,	(ft)	Χ	(ft)	II	(sq ft)
Landscaping (incl. plastic), Other	(ft)	Χ	(ft)	II	(sq ft)
			Total Existing Impervio	us	(sq ft)
Proposed Structures					
	(ft)	Χ	(ft)	II	(sq ft)
House, garage, shed	(ft)	Χ	(ft)	=	(sq ft)
Boathouse Greenhouse	(ft)	Χ	(ft)	=	(sq ft)
Other (Dog Kennel, etc.)	(ft)	Χ	(ft)	=	(sq ft)
	(ft)	Χ	(ft)	=	(sq ft)
Driveways* & Landscaping:	*Assumes a 12' wide driv	rewa	y unless evidence to the contrary		
Deitarra * Deutsing Assa Assa	(ft)	Χ	(ft)	=	(sq ft)
Driveway*, Parking Area, Apron, Boat Ramp, Sidewalk,	(ft)	Χ	(ft)	=	(sq ft)
Patio, Paving Stones	(ft)	Χ	(ft)	=	(sq ft)
Landscaping (incl. plastic), Other	(ft)	Χ	(ft)	=	(sq ft)
			Total Proposed Impervio	us	(sq ft)
			Total existing Impervious	=	(sq ft)
Total Lat Area (ag #1) =			Total w/new Impervious	=	(sq ft)
Total Lot Area (sq. ft.) =			% existing impervious	=	%
			% w/new impervious	=	%

### Simple Calculator for Approximating Size of Stormwater Practice & Amount of Phosphorus Reduction:

Total w/ new impervious:				Storage volume: Gal / Cu ft (= gal / 7.48)				ottor 3"	m siz 6"	e (s	sq ft) of ii 9"	nfiltratio 12"	on area by 15"	y depth 18"
	х	0.623 / 0.083 Gal / Cu ft	=	Gal	Cu ft		cu f	t x 4	cu ft x	2	cu ft x 1.33	cu ft x 1	cu ft x 0.8	cu ft x 0.67
Total exst imp	=		х	0.0000366	Existing phosphorous loading (lbs/yr)						os/yr)			
Tot w/new imp	=		х	0.0000366	=		Phosphorous reduction w/ stormwater mgmt					er mgmt		
For rain barrels, use this formula to determine size/amount needed:			Roof area (sq ft)			х	0.56	25	=			Gallons ge om a 1" ra	enerated ain event	

Landowner / Parcel #:	Date:
Stormwate	r Site Plan
Site Plan Checklist:  North Arrow Scale	Reminders:
North Arrow Scale Impervious Areas (Driveways, structures, etc.) Contours or drainage arrows	Do NOT compact the soils in proposed rain garden Side slopes should be 3:1 or flatter (4:1 preferred) Setbacks from wells, septics, & buildings may apply
Contours of drainage arrows Location of temporary erosion / sediment control Location of permanent stormwater management areas	Gopher One: Call 811 or www.gopherstateonecall.org
Distances of permanent stormwater areas to nearest str	ructure, septic, and well

# **Stormwater Best Management Practices (BMPs)**



Managing our rain water runoff (i.e. stormwater) is the best way to help keep our surface and groundwater resources clean. Minnesota law requires that cities consider stormwater management when issuing land use permits. In Crosslake. If a stormwater plan is required, it should be designed for permanent on-site treatment of 1 inch of stormwater runoff on all impervious surfaces on the lot. Where feasible, Crosslake recommends techniques that promote infiltration and use of existing natural areas.

#### Rain Garden





### Gutters / Rain Barrels





### Stormwater Pond (Wet Sedimentation Basin)

- Sediment / pollutant removal achieved from settling
- For larger sites
- Engineering Required



### Infiltration Basin

- Soils typically amended to allow for infiltration of stormwater
- Inlet / outlets should be stabilized



## No Mow Vegetated Buffer

- Prevents nutrients from entering surface water
- Provides fish & wildlife habitat
- Can be enhanced with native flowers for aesthetics



### Berms / Ice Ridges

- Captures runoff before entering surface water
- 6 to 12 inches in height for a constructed berm
- Historic ice ridges with vegetation should remain





### Vegetated Swale

 Used to convey runoff from impervious surfaces to treatment areas such as rain gardens or basins



#### **Pervious Pavement**

- Engineering needed
- Maintenance plan required to get credit as pervious



# **Temporary Erosion & Sediment Control BMPs**



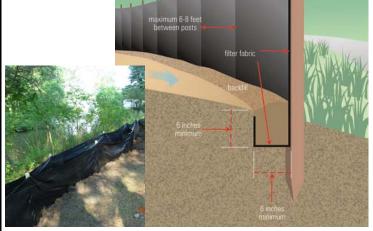
Temporary erosion and sediment control measures are designed to help hold onsite soils in place and protect near-by receiving waters during construction. BMPs are required for all riparian projects in Crosslake. They should be removed once vegetation is established and the site is stable. Below are several commonly used BMPs in Crosslake. Contact your supplier for proper installation techniques.

### Filter Logs



#### Silt Fence

- Must be installed below grade (see diagram below)
- Clean out when sediment reaches 1/3 height of fence



### Straw Mulch

- Disked / anchored to soil
- · Can be mixed with tackifier and used in hydro-mulch application



### **Erosion Control** Blanket

 Great for aiding in vegetation establishment on slopes or in drainage areas with low velocity.



#### Rock



### Cat Tracking (horizontal slope grading)

- Prevents gully erosion
- Keeps seed / mulch in place

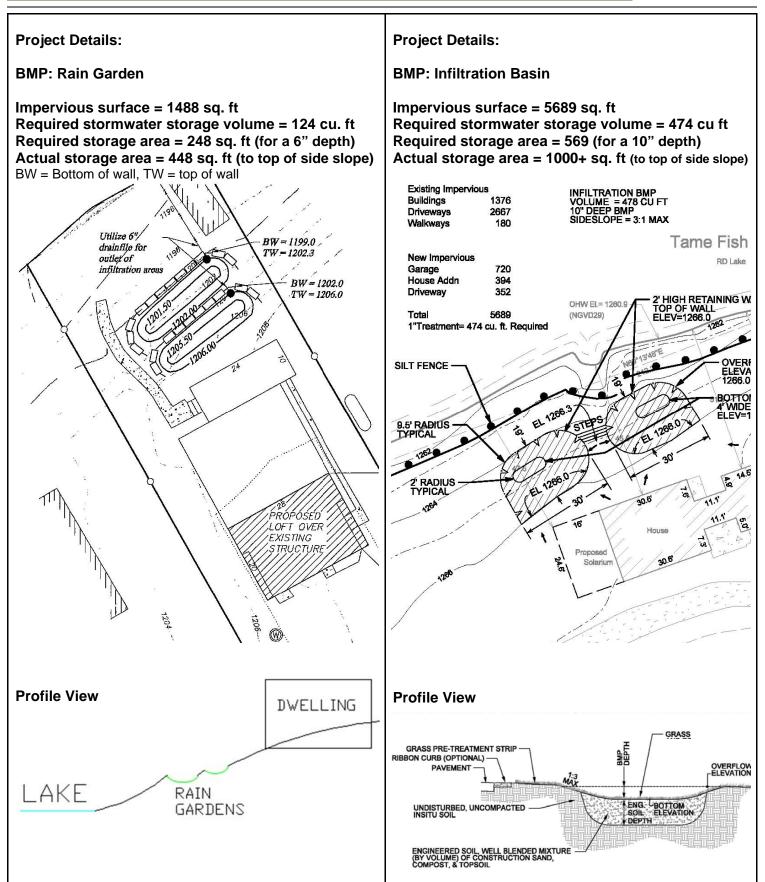






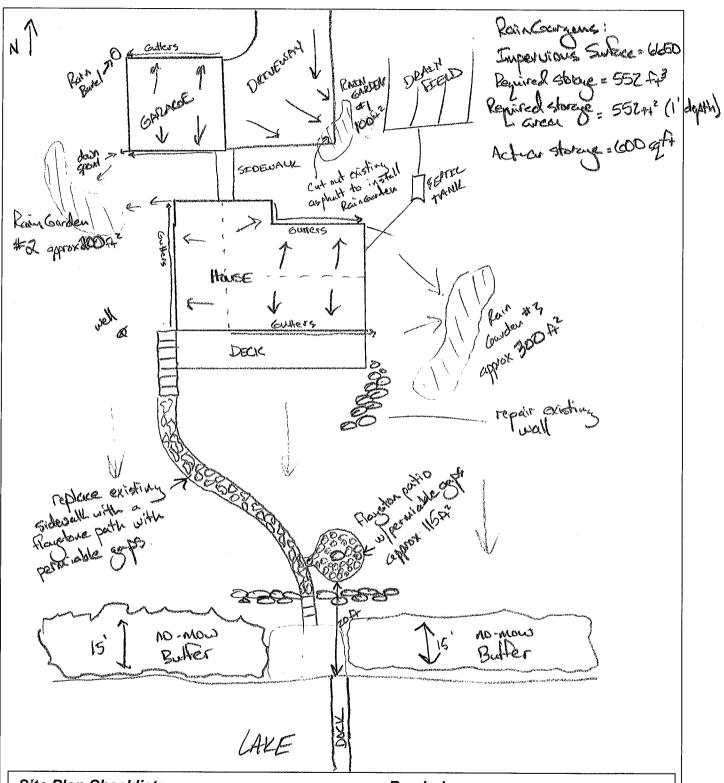
# **Stormwater Plan Examples**





Date: 5/1/2014

### Stormwater Site Plan



#### Site Plan Checklist:

- North Arrow Scale
- Impervious Areas (Driveways, structures, etc.)
- Contours or drainage arrows
- \_\_ Location of temporary erosion / sediment control
- \_\_ Location of permanent stormwater management areas
- \_\_Distances of permanent stormwater areas to nearest structure, septic, and well

### Reminders:

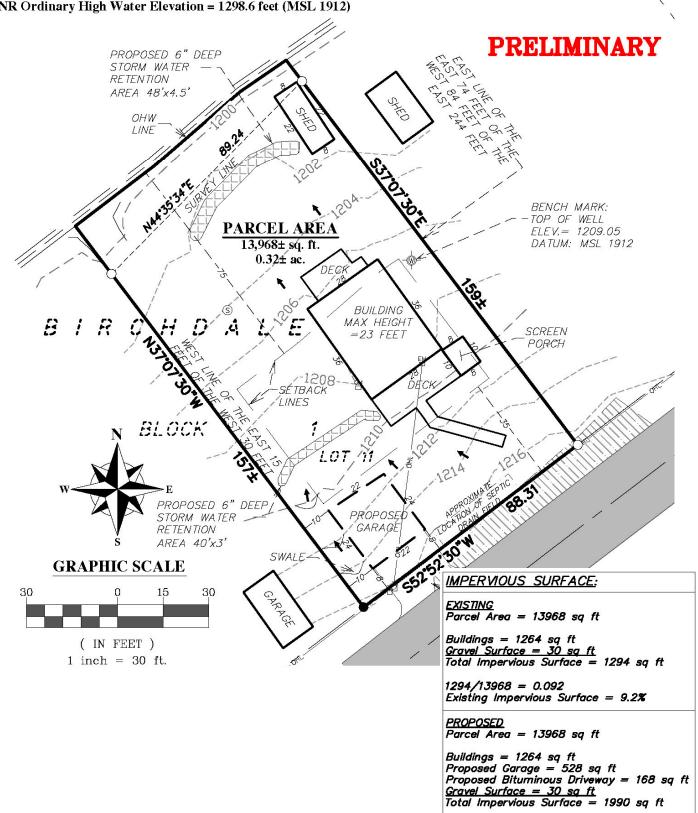
Do NOT compact the soils in proposed rain garden Side slopes should be 3:1 or flatter (4:1 preferred) Setbacks from wells, septics, & buildings may apply Gopher One: Call 811 or <a href="https://www.gopherstateonecall.org">www.gopherstateonecall.org</a>

#### NORTH LONG LAKE

Lake I.D. No.: 18-372

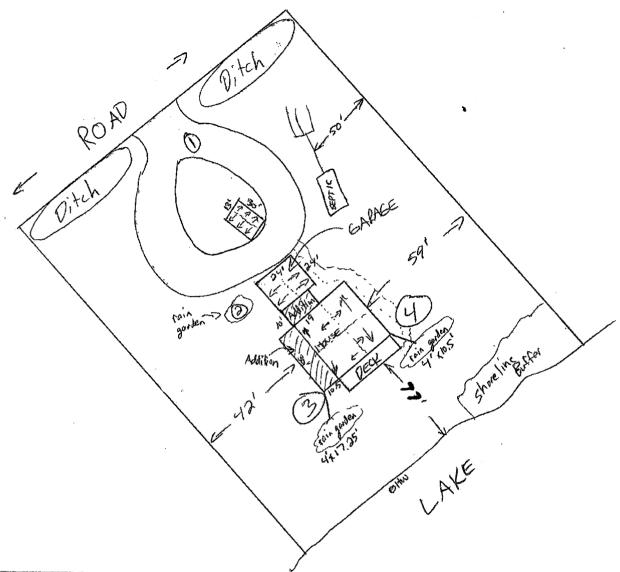
DNR Lake Classification: General Development (GD)

Date: January 24, 2014 Top of ice elevation = 1297.66 feet (MSL 1912) MNDNR Ordinary High Water Elevation = 1298.6 feet (MSL 1912)

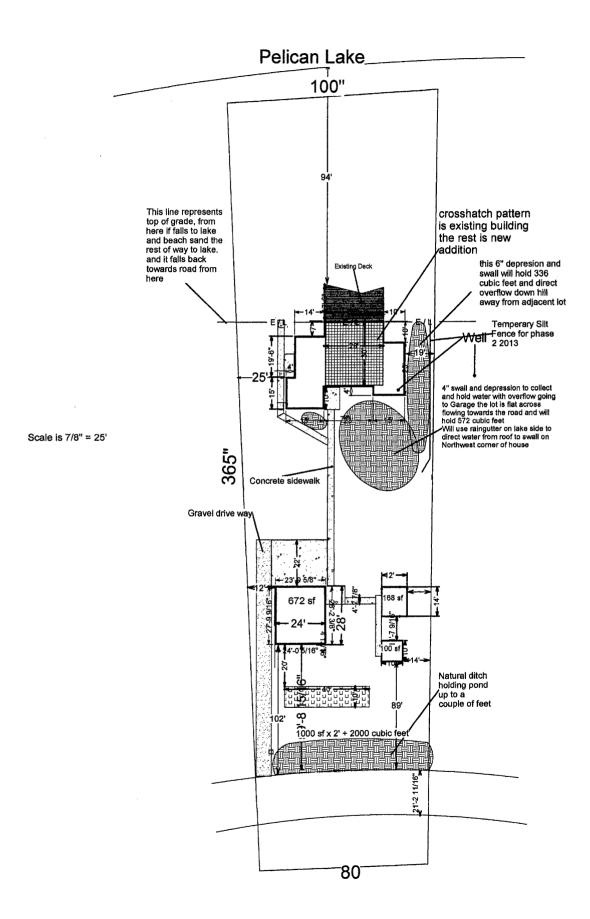


1990/13968 = 0.142

Proposed Impervious Surface = 14.2%



±:	Impervious	Cubic ft	Stora	ge Sq ft l	ased on	
Draing Area	Sq ft	req. storage x0,0833	6"	12"	24"	Treatment Method
1	6060	505	1010	505	252	None use current ditch & natural depression
2	766	64	128	64	•	12" deep 8' x 8' rain garden
3	830	69	138	69		12" deep 4' x 17.25' rain garden
4	510	42	84	42		12" deep 4' x 10.5' rain garden



# List of Attendees at Crow Wing County Shoreland and Stormwater Workshops

City	Name (Primary)	Company	Address	Phone #	Email Address	Shoreland	Stormwater
			Landscapers & Builde	rs			
Backus	Daniel Dix	Woodspirit Gardens	162 State Hwy 371	218-947-3663	ddix@tds.net	Х	Х
Baxter	Todd Dechaine	Kuepers Construction	14643 Edgewood Dr, Ste 115	218-829-0707	toddd@kuepers.com	Х	
Baxter	Brent Gunsbury	Bercher Design & Construction	7676 Design Rd, Suite 100	218-829-1381	brent@bercher.com	Х	
Baxter	Mark Matthews			218-839-0401	markmatt63@hotmail.com	Х	Х
Baxter	Nor-Son	Steve Rose	7900 Hastings Rd	218-828-1722	steve.rose@nor-son.com	Х	Х
Brainerd	Adam Dewey	YardCreations	18381 State Hwy 371	218-828-4130	adam@yardcreations.net	х	Х
Brainerd	Harold Lachelt	Landscape Specialists	16707 State Hwy 371	218-820-9842	hkl@clearwire.net	Х	Х
Brainerd	Mike	Landsburg Landscape Nursery	16460 State Hwy 371	218-829-5519	mike@landsburgnursery.com	Х	
Brainerd	Brett Olsen	Olsen Groundeffex	13968 Trails End Lane	218-851-3135	olsengroundeffex@ymail.com	х	х
Brainerd	Chris Peterson	Green Blade Lawn Care	4817 Gull Lake Dam Rd	218-831-8546	greenbladelawncare@hotmail.com	х	
Brainerd	Joe Ranweiler	B-Dirt	521 Charles St, Ste 102	218-820-5736	joe@b-dirt.com	Х	Х
Brainerd	Justin Rudolph	Landwerx		218-831-3435	landwerx@hotmail.com	х	
Brainerd	Ryan Tollefson	Pro-Scape Inc	20447 County Rd 3	218-828-8067	ryan.tollefson@proscapebrainerd.com	Х	
Brainerd	Angie Zetah	A & D Landscaping	9620 50th Avenue	218-851-6348		Х	Х
Crosslake	Trevor John	LA Lawn Care & Landscape	32786 County Rd 3	218-692-1107	office@lalawncare.net	Х	
Crosslake	Eric Larson	Remwhirl	33816 County Rd 3	218-692-6700	eric@remwhirl.com	х	х
Crosslake	Charlie Miller	Lands End Development	13718 County Rd 36	218-316-1101	charlie@landsenddev.com		х
Crosslake	Brad Swenson	Swenson Excavating & Landscape	14618 Whitebirch Ln	218-692-2167	swensonlandscaping@crosslake.net	Х	Х
Deerwood	Jesse Kunz	Greenspaces Property Care	20505 County Rd 10	218-820-3849	greenspacespropertycare@gmail.com	Х	Х
Ironton	Derek Haukos	Majestic Creations Landscape	19103 County Rd 102	218-330-0228	derek.haukos@yahoo.com	х	х
Ironton	John Laughlin	Laughlin Grounds Landscape	16594 Rowe Rd	218-546-7782	work@laughlinlandscape.com	Х	Х
Merrifield	Tim Foote	Foote Construction	26423 Old Mill Rd	218-821-8533	footeconstruction@hotmail.com	Х	Х
Merrifield	Charlie Haukos	Yardmen Greenhouse	County Road 3	218-829-7482		Х	
Merrifield	Bill Henry	Gizmo Creations	13483 Ossipee Rd	218-765-4113	drbodkin@yahoo.com	х	
Milaca	Jared DeBoer	Wexco Environmental	6074 Keystone Rd	320-983-2447	jared@septiccheck.com	Х	Х
Nisswa	Andrew Raisanen	Backyard Reflections	5370 Merril Ave	877-365-4034	andrew@backyardmn.com	х	Х
Pequot Lakes	Rob Abear	Pequot Lakes Sand & Gravel	6110 County Rd 16	218-543-6038	mail@pequotsand.com	х	
Pequot Lakes	Mike Baker	Baker Landscape Construction	PO Box 334	218-820-2975		х	
Pequot Lakes	Chuck Butcher	Rollin' Rock Landscape	32770 County Rd 39	218-543-6309	chuckrrl@charter.net	Х	Х
Pequot Lakes	Reid Price	The Woods Landscaping	PO Box 727	218-568-4332	reid@thewoodslandscaping.com	х	Х

Pequot Lakes	Bruce Zeman	Lakeside Lawn & Landscape	9166 Schaller Rd	218-543-6726	1982lll@uslink.net	х	Х
Pillager	Jerry Hicks	Oak Hill Landscape	12362 51st Ave SW	218-821-4821	oakhill-landscape@hotmail.com	х	
Pillager	Rob Schreiber	Green Leaf Outdoor Services	PO Box 171	218-838-4571	schreebs@brainerd.net	х	
Pillager	Michael Schwarze	Mike's Tree Company	1400 Oak Ridge Road SW	218-825-8207	mike@mikestreecompany.com		Х
Pillager	Ted Sullivan	Northern Tree & Landscape	5298 132nd St SW	218-746-3551	TSBS@brainerd.net	х	
Pine River	Bonnie Hiniker	Sunshine Gardens Landscape Nursery	1286 Shadywood Shores Dr NW	218-947-3154	sgardens@uslink.net	х	Х
Pine River	Marty Humphrey	MN Landscaping & Habitat	2458 40th Ave SW	800-996-5760	mlh-llc@tds.net, martylh@tds.net	х	Х
Pine River	Phillip Swenson	North Fork Boulders & Excavating	5253 55th Ave SW	218-838-3383	northforkrocks@yahoo.com	Х	Х
		-		•			
		-					
	I		cavating & Septic Contra		T	I I	
Aitkin	Glenn Boyd	Boyd Excavating	42509 282nd St	218-820-1072		Х	
Aitkin	Mike Johnson	Johnson Sewer & Exc	34604 395th Place	218-927-2272	jseincorp@yahoo.com	Х	
Aitkin	Mark Ritter	Ritter Sewer and Excavating	34753 398th Place	218-927-4125	<u>rittersewer@hotmail.com</u>	Х	х
Backus	Bruce Eveland	Bruce Eveland	260 44th Ave SW	218-947-3333		Х	x
Baxter	Tom, Cody Kosec	Kosec Construction	PO Box 2794	218-838-7602	kosecconstruction@yahoo.com	х	Х
Brainerd	Anderson Brothers	Anderson Brothers	PO Box 660	218-829-1768	www.andersonbrothers.com		Х
Brainerd	Bob Bartel	B & T Sales	912 12 St SE	218-829-6937		х	Х
Brainerd	Al DeChantal	DeChantal Excavating	PO Box 315	218-828-4636	adechantal@gmail.com	х	х
Brainerd	Steve Fleischhacker	Palimino Sewer Services	16207 Palomino Ln	218-828-3389	palominosewer@gmail.com	Х	Х
Brainerd	Justin Gerdes	Gerdes & Son's	14456 Laurian Ln	218-820-1762	gerdesson@yahoo.com	х	
Brainerd	Joel Jacobson	Jacobson Excavating & Landscape	13252 State Hwy 18	218-851-1818	jacobson.llc@gmail.com	х	Х
Brainerd	Edwin Klause	Ground Breakers LLC	3224 County Road 8	218-764-2681		х	Х
Brainerd	LouAnn Maschler	Maschler Septic Consultants	16333 Co Rd 142	218-839-3042	louann@dialomni.com	Х	Х
Brainerd	Dave Neiman	Blakeman Inspection Services	19517 Love Lk Rd	218-820-0593	bisi1@charter.net	х	Х
Brainerd	Randy Peterson	Peterson Excavating	18241 Doe Trl	218-828-0066	colletteandrandy@q.com	х	
Brainerd	Curt Snidarich	Dirt Docter	3076 Co Rd 113	218-851-9839		Х	Х
Brainerd	Dave Sustercich	Great River Excavating	10728 Blue Jay Trail	218-839-4764	greatriverex@charter.net	Х	Х
Brainerd	Garth Tretter	Tretter Trucking	15461 Ironwood Lane	218-829-7645			х
Breezy Point	Josh Dingman	Dingman Brothers Excavating	8747 Southview Dr.	218-820-0181	jjdingman@charter.net		х
Breezy Point	Shawn Wagement	Shawn Wageman	7695 Winter Trl	218-851-6487	shawn21@tds.net	х	Х
Deerwood	Tom Antonsen	Antonsen Excavating	17633 State Hwy 6	218-534-3355	antonsenexc@gmail.com	х	Х
Deerwood	Jerry Hutchison	Hutchison Excavating	20511 Linberg Rd	218-534-3922	hutchyex@centurylink.net	Х	Х
Fort Ripley	Dale DeRosier	Dales Excavating and Slurry Seal	3791 Legend Lane	218-829-7703		Х	Х
	Rick Smith	Northland Septic	PO Box 115	888-454-4999	northlandseptic@tds.net	х	Х

Gary Hoffman	Hoffman Gravel & Excavating	26794 Hoffman Road	320-277-3737	hge@brainerd.net	х	Х
Steve James	Moes Contracting & Landscaping	9507 Anderson Rd	218-330-1054	moescontracting@gmail.com	Х	Х
Isaac Wannebo	Wannebo Excavating	12015 County Rd 1	218-543-4544	wannebo@tds.net	х	Х
Matt Borden	Borden Excavating	13110 Borden Rd	218-765-3397	info@bordenexcavatinginc.com	х	Х
Martin Joyce	MJ Septic Service	27604 Co Road 3	218-820-2621	joycem@brainerd.net	Х	Х
Gary Norwood	Norwood & Son Excavating	14274 Co Rd 116	218-820-0712	nynor@brainerd.net	х	Х
Shawn Pratt	Pratt's Affordable Exc.	23069 Swan Ln	218-465-4244	slpratt@brainerd.net	х	Х
Brian Koski	Septic Check	6549 Keystone Road	320-993-2447	brian@septic-check.com	х	Х
Mike Rardin	Rardin Excavating	10980 County Rd 77 SW	218-828-0653	Rardinexcavating@yahoo.com	Х	
Dave Rasinski	Rasinski Excavating	10775 Pinewood Dr. SW	218-825-8609	rasinexc@brainerd.net	х	Х
Paul Smith	Paul Smith Contracting	P.O. Box 887	218-838-4369	paulsmithcontracting@hotmail.com	х	Х
Brian Stumvoll	Stumvoll Excavating	PO Box 201	218-963-4793	stumvollex@gmail.com	Х	Х
Dan Switzer	Cass County Construction	PO Box 74	218-792-5666	ccconst@brainerd.net	х	Х
Gene Williams	Williams Construction	925 State Hwy 6	218-792-5354	lugene@brainerd.net	х	
Michael O'Keefe	A.M. & Associates	29465 442nd Ln	218-768-4430	okeefe.mike@yahoo.com	Х	
Steve Waytashek	Steve's Backhoe	29817 213th St	320-468-2446		Х	
Ray Schrupp	Schrupp Excavating	3003 36th St SW	218-587-4038	schruppex@uslink.net	Х	Х
		Suppliers				
Mike House, Doug M	Brock White	3855 Independence Rd	218-829-1929	jwkuhl@brockwhite.com	x	Х
Greg Ohman	Dan's Sod	6163 Pine Beach Rd	218-829-0880	danssod@gmail.com	х	Х
	Acorn Inc	16707 State Hwy 371	218-829-7866	acorninc@brainerd.net	х	Х
Terry Wanderi	Landsburg Landscape Nursery	16460 State Hwy 371	218-829-5519	terry@landsburgnursery.com	х	
Shelly Larson	Hayland Woods Native Nursery	6549 Keystone Rd	320-983-6354	shelley@haylandwoods.com	х	Х
Bonnie Hiniker	Sunshine Gardens Landscape Nursery	1286 Shadywood Shores Dr NW	218-947-3154	sgardens@uslink.net	х	Х
	Steve James Isaac Wannebo Matt Borden Martin Joyce Gary Norwood Shawn Pratt Brian Koski Mike Rardin Dave Rasinski Paul Smith Brian Stumvoll Dan Switzer Gene Williams Michael O'Keefe Steve Waytashek Ray Schrupp  Mike House, Doug M Greg Ohman Harold, Joe Lachelt Terry Wanderi Shelly Larson	Steve James Moes Contracting & Landscaping Isaac Wannebo Wannebo Excavating Matt Borden Borden Excavating Martin Joyce MJ Septic Service Gary Norwood Norwood & Son Excavating Shawn Pratt Pratt's Affordable Exc. Brian Koski Septic Check Mike Rardin Rardin Excavating Dave Rasinski Rasinski Excavating Paul Smith Paul Smith Contracting Brian Stumvoll Stumvoll Excavating Dan Switzer Cass County Construction Gene Williams Williams Construction Michael O'Keefe A.M. & Associates Steve Waytashek Steve's Backhoe Ray Schrupp Schrupp Excavating  Mike House, Doug M Brock White Greg Ohman Dan's Sod Harold, Joe Lachelt Acorn Inc Terry Wanderi Landsburg Landscape Nursery Shelly Larson Hayland Woods Native Nursery	Steve James Moes Contracting & Landscaping 9507 Anderson Rd Isaac Wannebo Wannebo Excavating 12015 County Rd 1  Matt Borden Borden Excavating 13110 Borden Rd  Martin Joyce MJ Septic Service 27604 Co Road 3  Gary Norwood Norwood & Son Excavating 14274 Co Rd 116  Shawn Pratt Pratt's Affordable Exc. 23069 Swan Ln  Brian Koski Septic Check 6549 Keystone Road  Mike Rardin Rardin Excavating 10980 County Rd 77 SW  Dave Rasinski Rasinski Excavating 10775 Pinewood Dr. SW  Paul Smith Paul Smith Contracting P.O. Box 887  Brian Stumvoll Stumvoll Excavating PO Box 201  Dan Switzer Cass County Construction PO Box 74  Gene Williams Williams Construction 925 State Hwy 6  Michael O'Keefe A.M. & Associates 29465 442nd Ln  Steve Waytashek Steve's Backhoe 29817 213th St  Ray Schrupp Schrupp Excavating 3003 36th St SW   Suppliers  Mike House, Doug M Brock White 3855 Independence Rd  Greg Ohman Dan's Sod 6163 Pine Beach Rd  Harold, Joe Lachelt Acorn Inc 16707 State Hwy 371  Terry Wanderi Landsburg Landscape Nursery 16460 State Hwy 371  Shelly Larson Hayland Woods Native Nursery 6549 Keystone Rd	Steve James         Moes Contracting & Landscaping         9507 Anderson Rd         218-330-1054           Isaac Wannebo         Wannebo Excavating         12015 County Rd 1         218-543-4544           Matt Borden         Borden Excavating         13110 Borden Rd         218-543-4544           Martin Joyce         MJ Septic Service         27604 Co Road 3         218-820-2621           Gary Norwood         Norwood & Son Excavating         14274 Co Rd 116         218-820-0712           Shawn Pratt         Pratt's Affordable Exc.         23069 Swan Ln         218-465-4244           Brian Koski         Septic Check         6549 Keystone Road         320-993-2447           Mike Rardin         Rardin Excavating         10980 County Rd 77 SW         218-828-0653           Dave Rasinski         Rasinski Excavating         10775 Pinewood Dr. SW         218-828-8699           Paul Smith         Paul Smith Contracting         P.O. Box 887         218-838-4369           Brian Stumvoll         Stumvoll Excavating         PO Box 201         218-963-4793           Dan Switzer         Cass County Construction         PO Box 74         218-792-5354           Michael O'Keefe         A.M. & Associates         29465 442nd Ln         218-768-4430           Steve Waytashek         Steve's Backhoe         29817 21	Steve James Moes Contracting & Landscaping 9507 Anderson Rd 218-330-1054 mescontracting@gmail.com Isaac Wannebo Wannebo Excavating 12015 County Rd 1 218-543-4544 wannebo@tds.net Matt Borden Borden Excavating 13110 Borden Rd 218-765-3397 info@bordenexcavatinginc.com Martin Joyce MJ Septic Service 27604 Co Road 3 218-820-2621 joycem@brainerd.net Gary Norwood Norwood & Son Excavating 14274 Co Rd 116 218-820-0712 nynor@brainerd.net Shawn Pratt Pratt's Affordable Exc. 23069 Swan Ln 218-465-4244 slpratt@brainerd.net Brian Koski Septic Check 6549 Keystone Road 320-993-2447 brian@septic-check.com Mike Rardin Rardin Excavating 10980 County Rd 77 SW 218-828-0653 Rardinexcavating@yahoo.com Dave Rasinski Rasinski Excavating 10775 Pinewood Dr. SW 218-828-0653 Rardinexcavating@yahoo.com Dave Rasinski Rasinski Excavating 10775 Pinewood Dr. SW 218-828-8609 rasinexc@brainerd.net Paul Smith Paul Smith Contracting P.O. Box 887 218-838-4369 paulsmithcontracting@hotmail.com Brian Stumvoll Stumvoll Excavating PO Box 201 218-963-4793 stumvollex@gmail.com Dan Switzer Cass County Construction PO Box 74 218-792-5666 ccconst@brainerd.net Gene Williams Williams Construction 925 State Hwy 6 218-792-5354 lugene@brainerd.net Michael O'Keefe A.M. & Associates 29465 442nd Ln 218-768-4430 okeefe.mike@yahoo.com Steve Waytashek Steve's Backhoe 29817 213th St 320-468-2446 Ray Schrupp Excavating 3003 36th St SW 218-837-4038 schruppex@uslink.net  Suppliers  Milke House, Doug M Brock White 3855 Independence Rd 218-829-1929 wkuhl@brockwhite.com Greg Ohman Dan's Sod 6163 Pine Beach Rd 218-829-1929 wkuhl@brockwhite.com Greg Ohman Dan's Sod 6163 Pine Beach Rd 218-829-1939 terry@landsburgnursery.com Harold, Joe Lachelt Acorn Inc 16707 State Hwy 371 218-829-7866 acorninc@brainerd.net Terry Wanderi Landsburg Landscape Nursery 16460 State Hwy 371 218-829-5519 terry@landsburgnursery.com Shelly Larson Hayland Woods Native Nursery 6549 Keystone Rd 320-983-6354 shelley@haylandwoods.com	Steve James Moes Contracting & Landscaping 9507 Anderson Rd 218-330-1054 moescontracting@gmail.com x lsaac Wannebo Wannebo Excavating 12015 County Rd 1 218-543-4544 wannebo@tds.net x Matt Borden Borden Excavating 13110 Borden Rd 218-765-3397 info@bordenexcavatinginc.com x Martin Joyce MJ Septic Service 27604 Co Road 3 218-820-2621 joycem@brainerd.net x Cary Norwood Norwood & Son Excavating 14274 Co Rd 116 218-820-0712 nynor@brainerd.net x Shawn Pratt Pratt's Affordable Exc. 23069 Swan Ln 218-465-4244 slpratt@brainerd.net x Shawn Pratt Pratt's Affordable Exc. 23069 Swan Ln 218-465-4244 slpratt@brainerd.net x Shawn Pratt Pratt's Affordable Exc. 23069 Swan Ln 218-820-0712 nynor@brainerd.net x Shawn Pratt Saffordable Exc. 23069 Swan Ln 218-820-0712 nynor@brainerd.net x Shawn Pratt Saffordable Exc. 23069 Swan Ln 218-826-4244 slpratt@brainerd.net x Shawn Pratt Saffordable Exc. 23069 Swan Ln 218-862-4244 slpratt@brainerd.net x Shawn Brain Koski Septic Check 6549 Keystone Road 320-993-2447 brian@septic-check.com x Shawn Brain Koski Rasinski Excavating 10980 County Rd 77 SW 218-828-0653 Rardinexcavating@yahoo.com x Dave Rasinski Rasinski Excavating 10775 Pinewood Dr. SW 218-828-0653 Rardinexcavating@yahoo.com x Dave Rasinski Rasinski Excavating 10775 Pinewood Dr. SW 218-828-0653 Rardinexcavating@yahoo.com x Dave Stumvoll Stumvoll Excavating P.O. Box 887 218-838-4369 paulsmithcontracting@hotmail.com x Stumvoll Stumvoll Excavating P.O. Box 874 218-963-4793 stumvollex@gmail.com x State Part Part Part Part Part Part Part Part