



Compartment Review Presentation

Baraga Forest Management Unit

Compartment 11031

Entry Year 2017

Acreage: 1,295

County Houghton

Management Area: Central Houghton

Revision Date: 2015-03-10

Stand Examiner:

Legal Description:

T52N R35W, Section 6
T52N R36W, Section 1
T53N R35W, Section 2
T54N R35W, Section 34

Identified Planning Goals:

Soil and topography:

The soils in sections 1 and 6 are Trimountain Cobbly fine sandy loam, Trimountain- Paavola Complex, Trimountain- Paavola- Michigamme Complex. The topography in these sections is rolling to hilly. The soils around Lake Perrault are Kalkaska-Waiska Sands. The topography is level to rolling.

Ownership Patterns, Development, and Land Use in and Around the Compartment:

The parcels in Sections 1 and 6 are a solid block of State Forest land with state land to the west, and industry and small private ownerships to the north south and east. The predominant land use is commercial forest. The parcels in sections 2 and 34 are surrounded by industry land.

Unique Natural Features:

Archeological, Historical, and Cultural Features:

The Military Road (Fort Howard to Fort Wilkins) crosses this compartment.

Special Management Designations or Considerations:

Watershed and Fisheries Considerations:

There are several trout streams in the compartment – Elm River, and North Branch Bear Creek.

Wildlife Habitat Considerations:

Hard and soft mast in this compartment supports a good bear population. Mesic conifer regeneration is not impacted by deer browsing.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of an end moraine of fine-textured till. There is insufficient data to determine the glacial drift thickness. The Precambrian Copper Harbor Conglomerate subcrops below the glacial drift. The Copper Harbor was previously mined for small amounts of copper. The nearest gravel pit is located just to the southwest and there maybe some potential. Abandoned copper mines and crushed basalt piles are located five miles to the southwest. This area has not been leased for metallic exploration. There is no economic oil and gas production in the UP.

Vehicle Access:

Access is good. M-26, county roads and the Donken – Tapiola Road (DNR) provide access to the compartment. The internal road system, non county road, is good, but needs some improvement work.

Survey Needs:

Survey work will be needed.

Recreational Facilities and Opportunities:

The Bill Nicholls Rail-Trail crosses the compartment. This is a heavily used snowmobile trail, and a designated ORV route. The section 34 parcel includes Lake Perrault.

Fire Protection:

This is not a fire prone area.

Additional Compartment Information:

The following reports from the Inventory are attached:

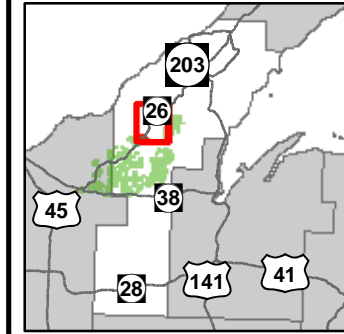
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

The following information is displayed, where pertinent, on the attached compartment maps:

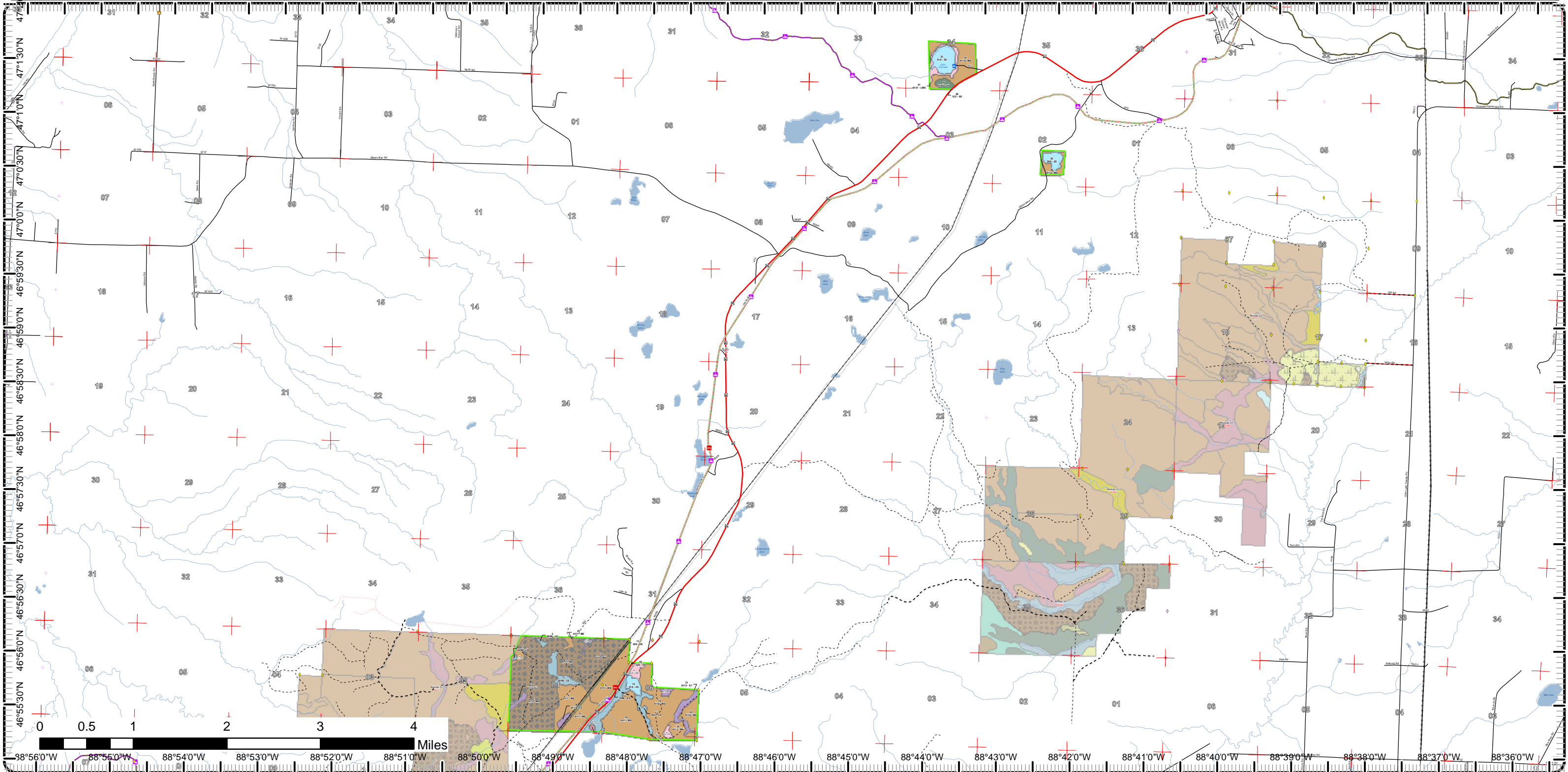
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments

Compartment: 31
 T54N, R35W, Sec. 34
 T53N, R35W, Sec. 02
 T52N, R35W, Sec. 06
 T52N, R36W, Sec. 01
 County: Houghton
 Unit: Baraga
 Mgmt Area: Central Houghton
 YOE: 2017
 Acres: 1295 GIS Calculated
 Examiner: Brad Carlson
 Map Revised: 5/19/2015
 Map Phase: Pre-Review



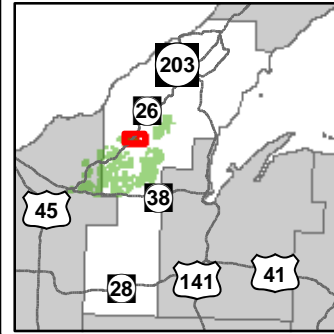
- | | | | |
|---|---|--|---|
| <ul style="list-style-type: none"> ✚ Remonumented Section Corners ◆ Survey Grade GPS Corners ◇ Field Grade GPS Corners — Miris Corners — Highway — Paved Roads — County Gravel Roads — Gravel Roads — Poor Dirt Roads Boating Access Site Campground | <ul style="list-style-type: none"> ORV Routes Snowmobile Trails Hiking Pathways Bicycle/Dirt Bike Trails Ski Trails ORV Route Rail to Trails Rivers Lakes Pipeline Powerline | <p>Treatments</p> <ul style="list-style-type: none"> Selection (Group, Single Tree) <p>Forest Cotype</p> <ul style="list-style-type: none"> 411 - Northern Hardwood 423 - Other Upland Conifers 611 - Lowland Deciduous Forest 612 - Lowland Coniferous Forest 613 - Lowland Mixed Forest <p>Non-Forest Cotype</p> <ul style="list-style-type: none"> 122 - Roads/Parking Lot 320 - Upland Shrub | <ul style="list-style-type: none"> 500 - Water 622 - Lowland Shrub 790 - Other Bare/Sparsely Vegetated |
|---|---|--|---|



0 0.5 1 2 3 4 Miles
 38°56'0"W 38°55'0"W 38°54'0"W 38°53'0"W 38°52'0"W 38°51'0"W 38°50'0"W 38°49'0"W 38°48'0"W 38°47'0"W 38°46'0"W 38°45'0"W 38°44'0"W 38°43'0"W 38°42'0"W 38°41'0"W 38°40'0"W 38°39'0"W 38°38'0"W 38°37'0"W 38°36'0"W

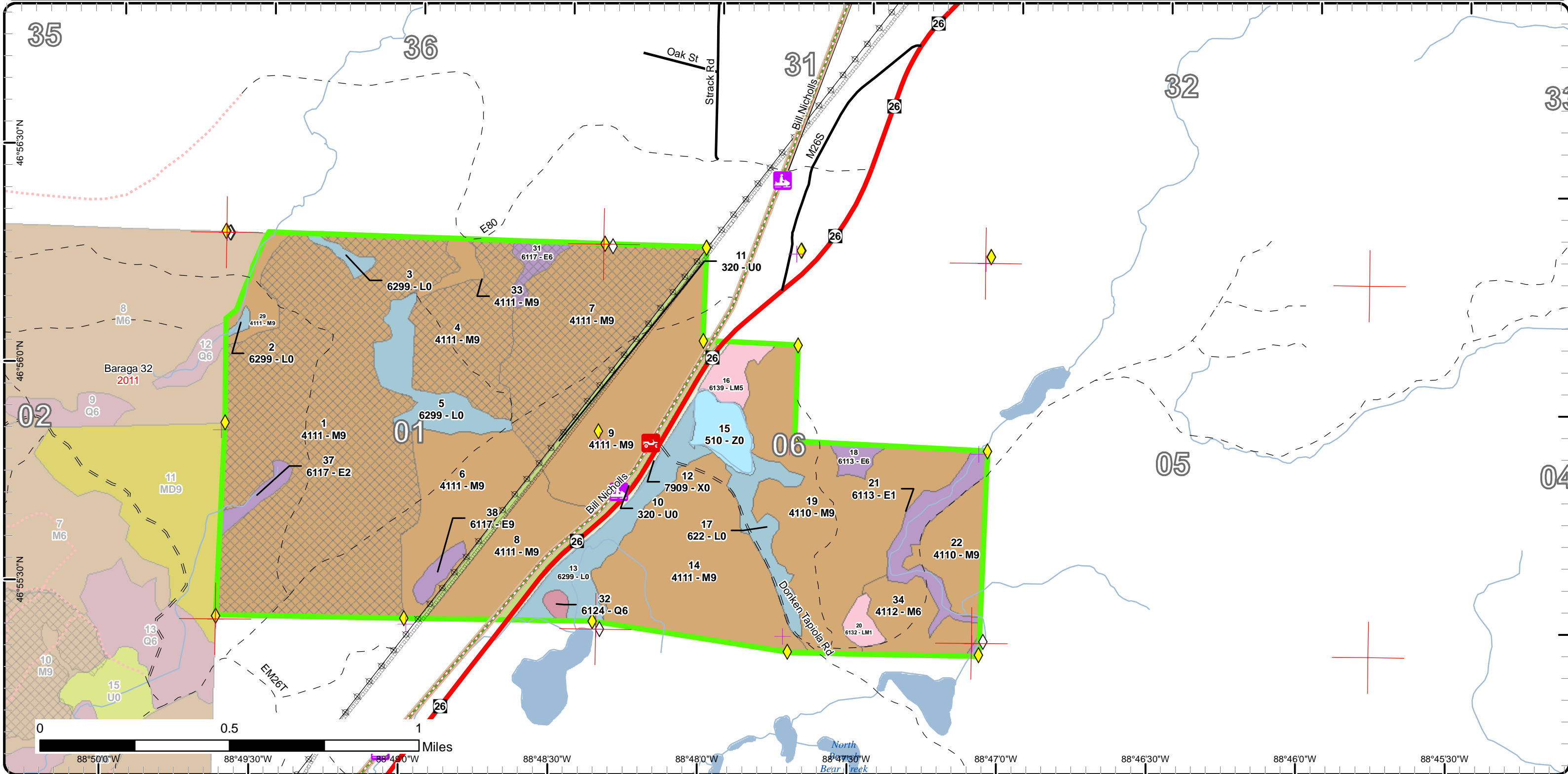
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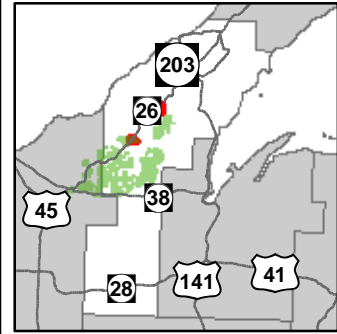


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- ◇ Field Grade GPS Corners
- Miris Corners
- Highway
- Paved Roads
- Gravel Roads
- Poor Dirt Roads
- Closed Roads
- ORV Routes
- Snowmobile Trails
- Hiking Pathways
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- Ski Trails
- ORV Route
- Snowmobile Trails
- Rail to Trails
- Rivers
- Lakes
- Pipeline
- Powerline
- Treatments
- Selection (Group, Single Tree)

- Forest Covertypes**
- 411 - Northern Hardwood
 - 611 - Lowland Deciduous Forest
 - 612 - Lowland Coniferous Forest
 - 613 - Lowland Mixed Forest
- Non-Forest Covertypes**
- 320 - Upland Shrub
 - 500 - Water
 - 622 - Lowland Shrub
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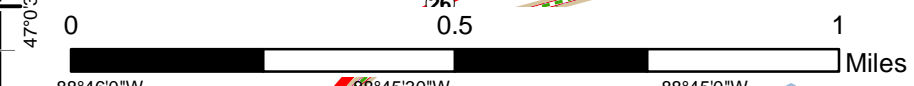
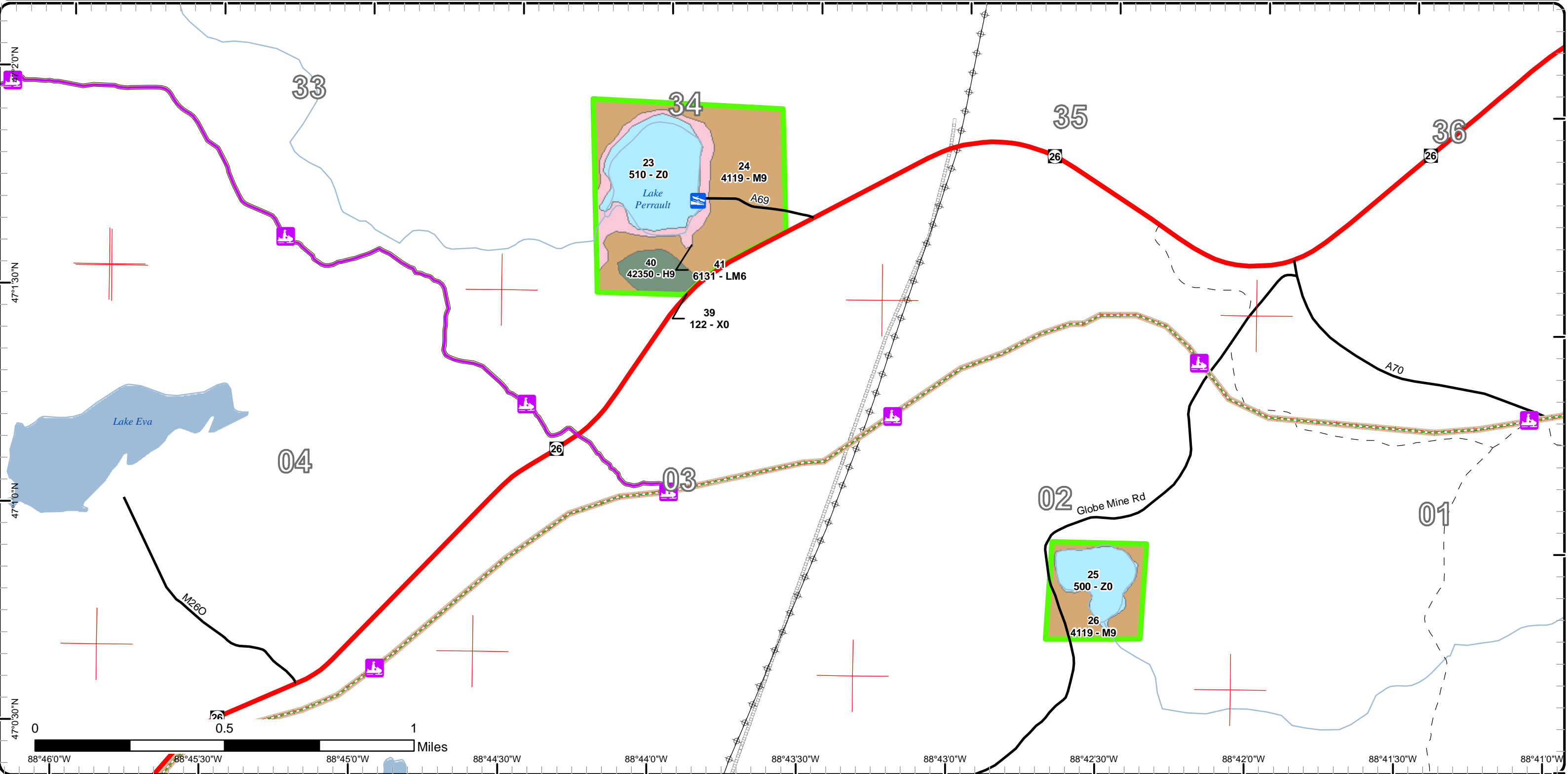
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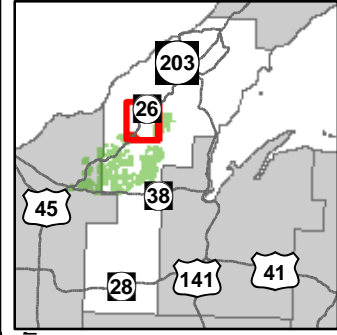


- Miris Corners
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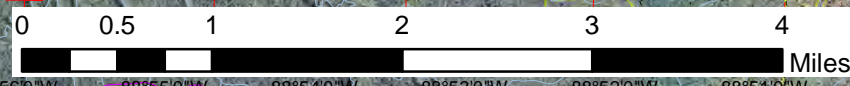
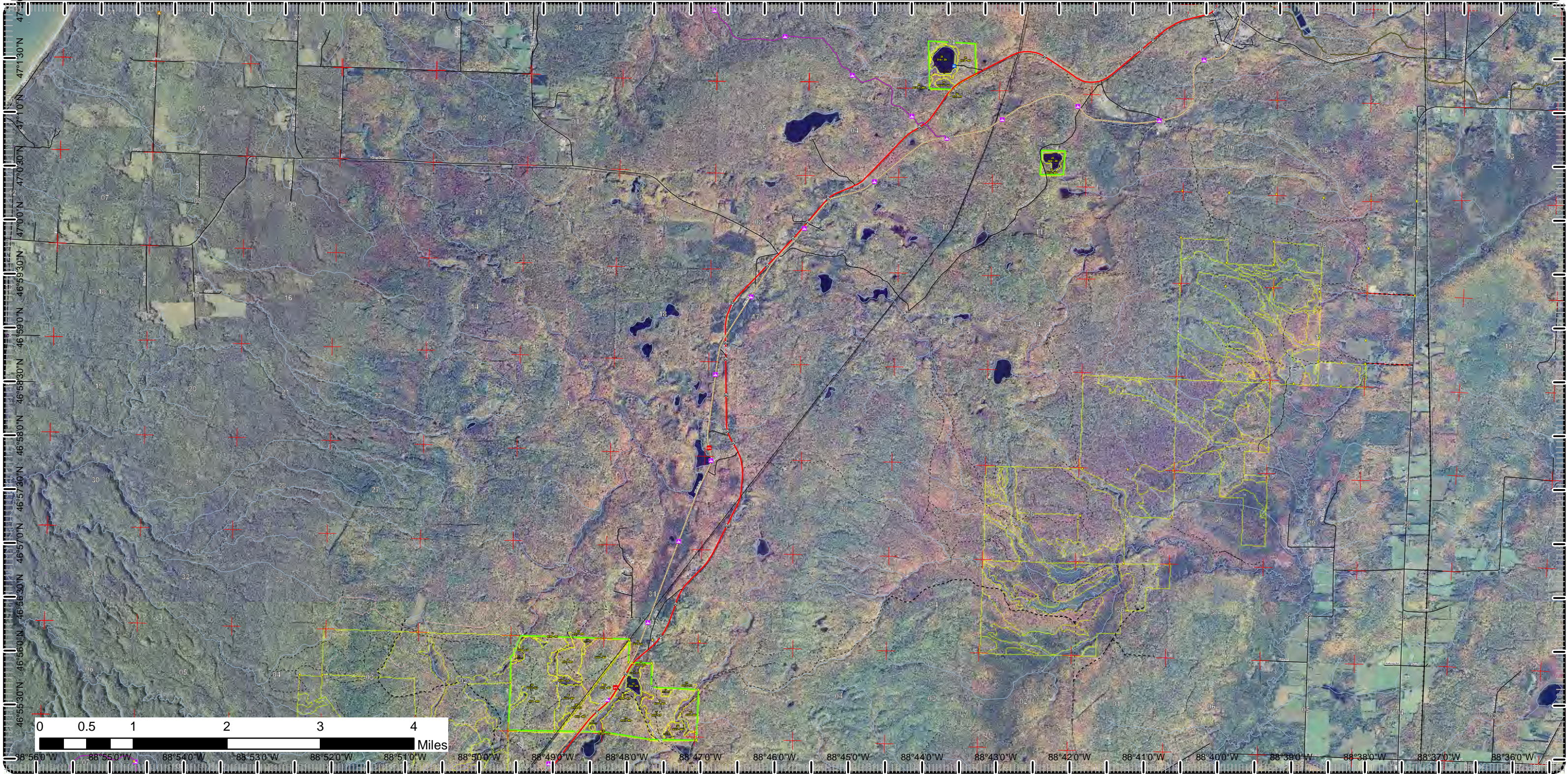
Stand Boundary Map



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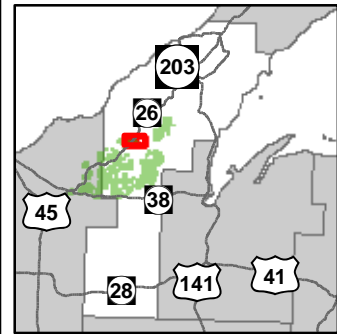
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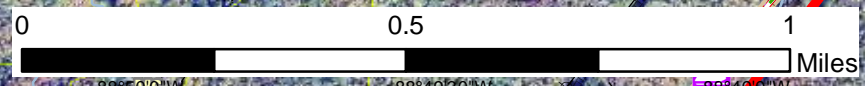
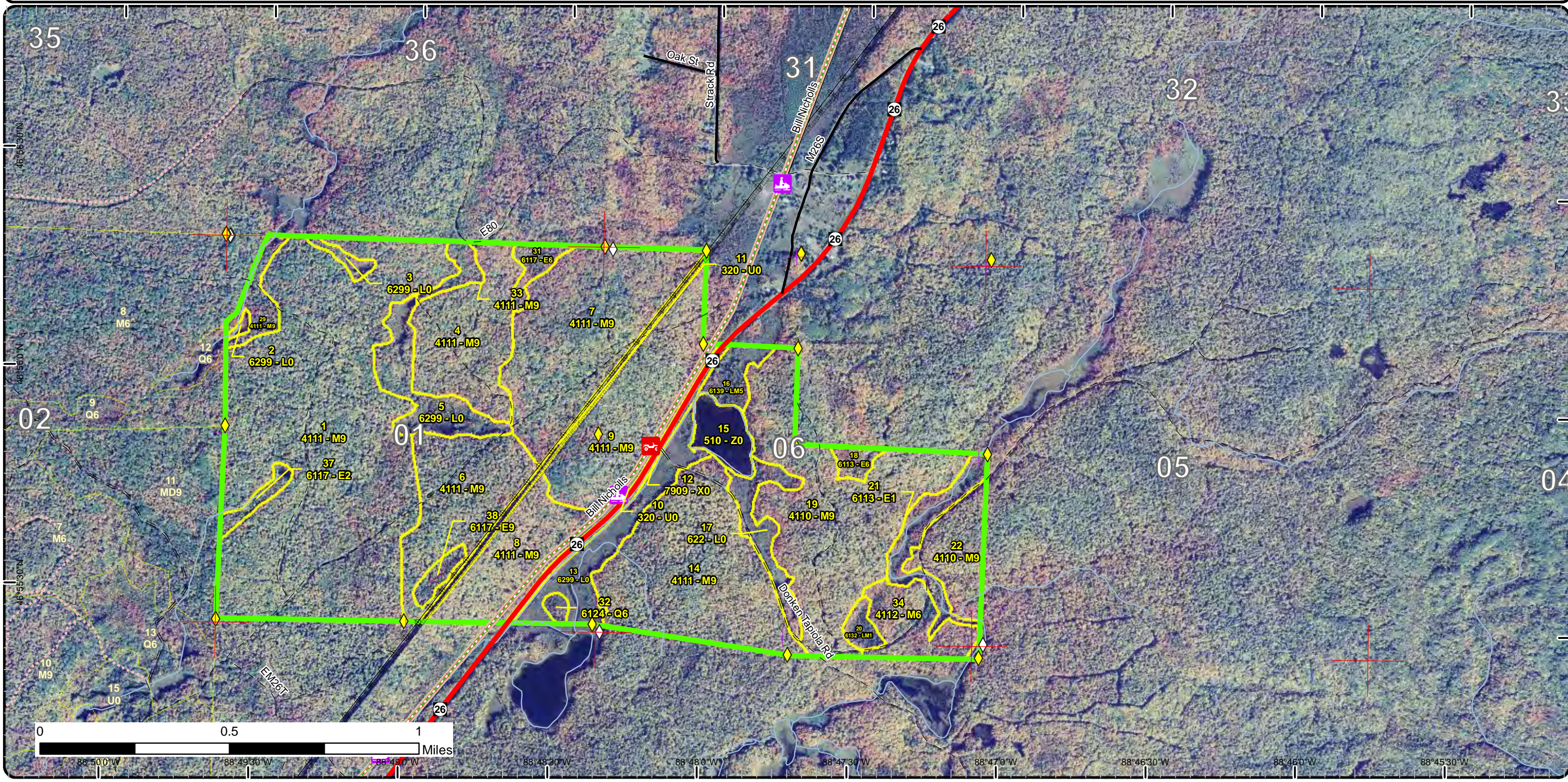
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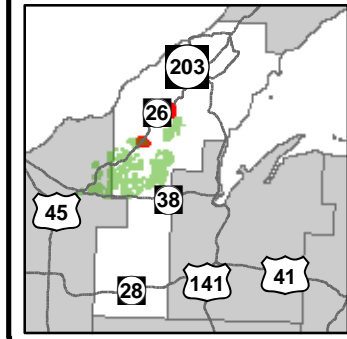
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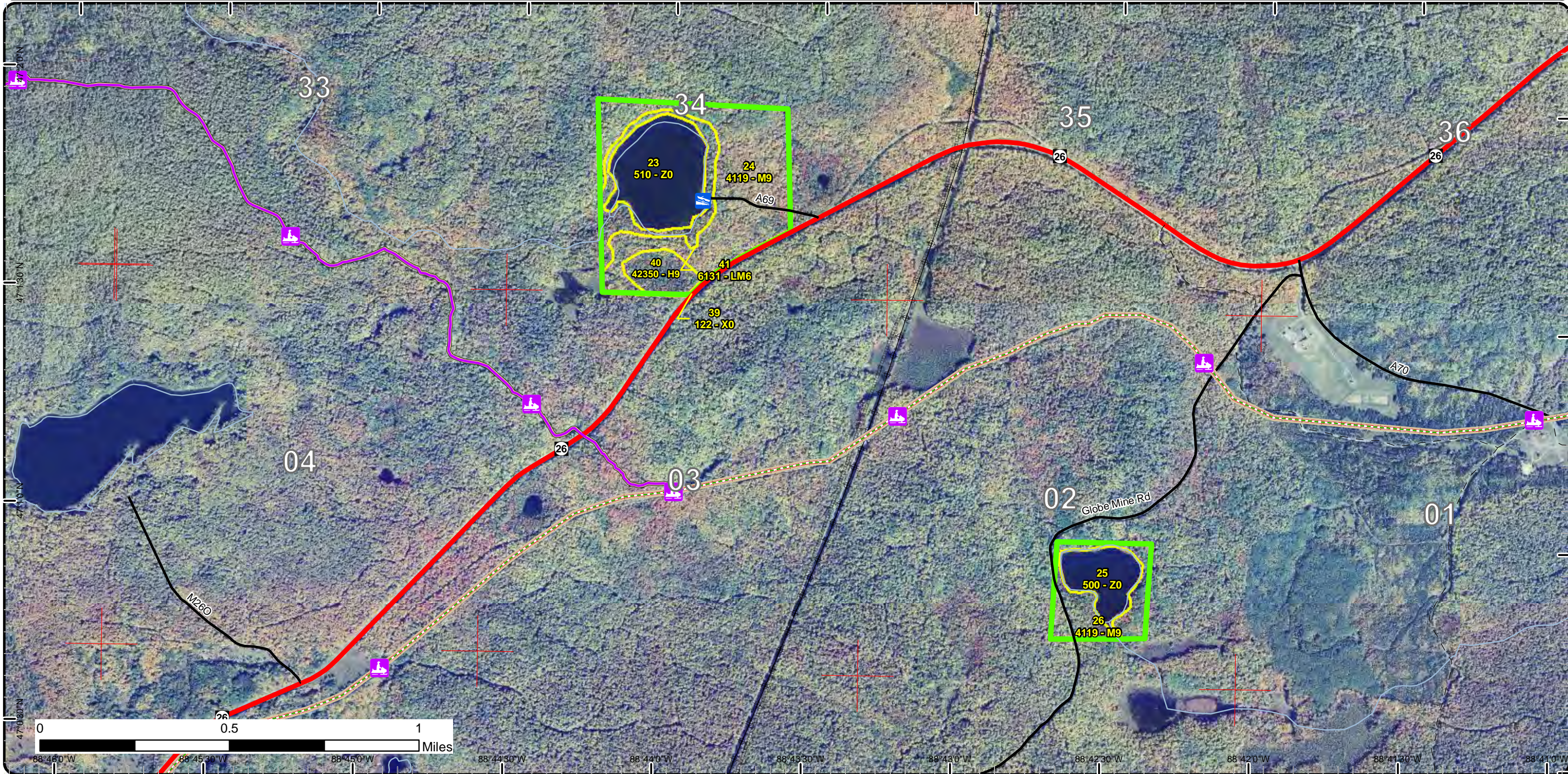
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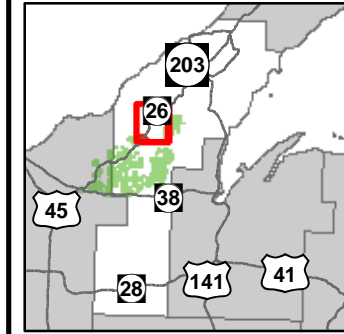


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Special Conservation Areas & Site Conditions Map

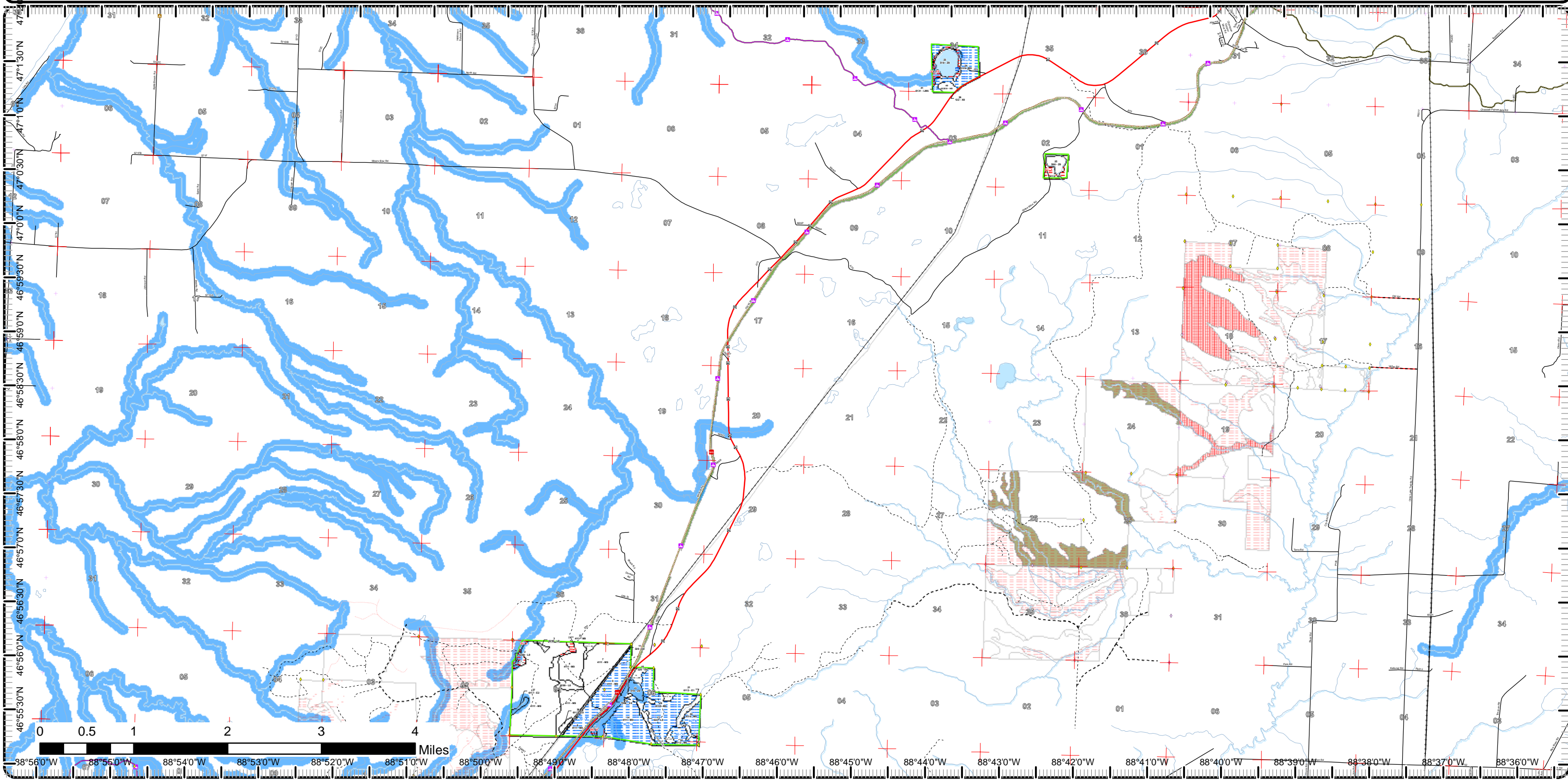
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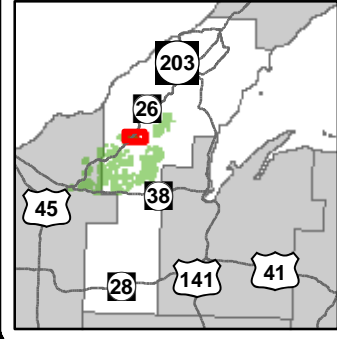
- Site Condition**
- Available w/ Constraints
 - Unavailable
- Available Factors W/ Constraints**
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable Factors**
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)

- 3J: Water quality / BMPs (stream, river, or lake)**
- Cold Water Streams
 - Cold Water Lakes
 - High Priority Trout Stream Buffer
 - Rail-Trail Corridor

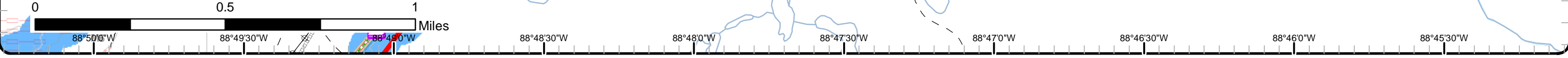
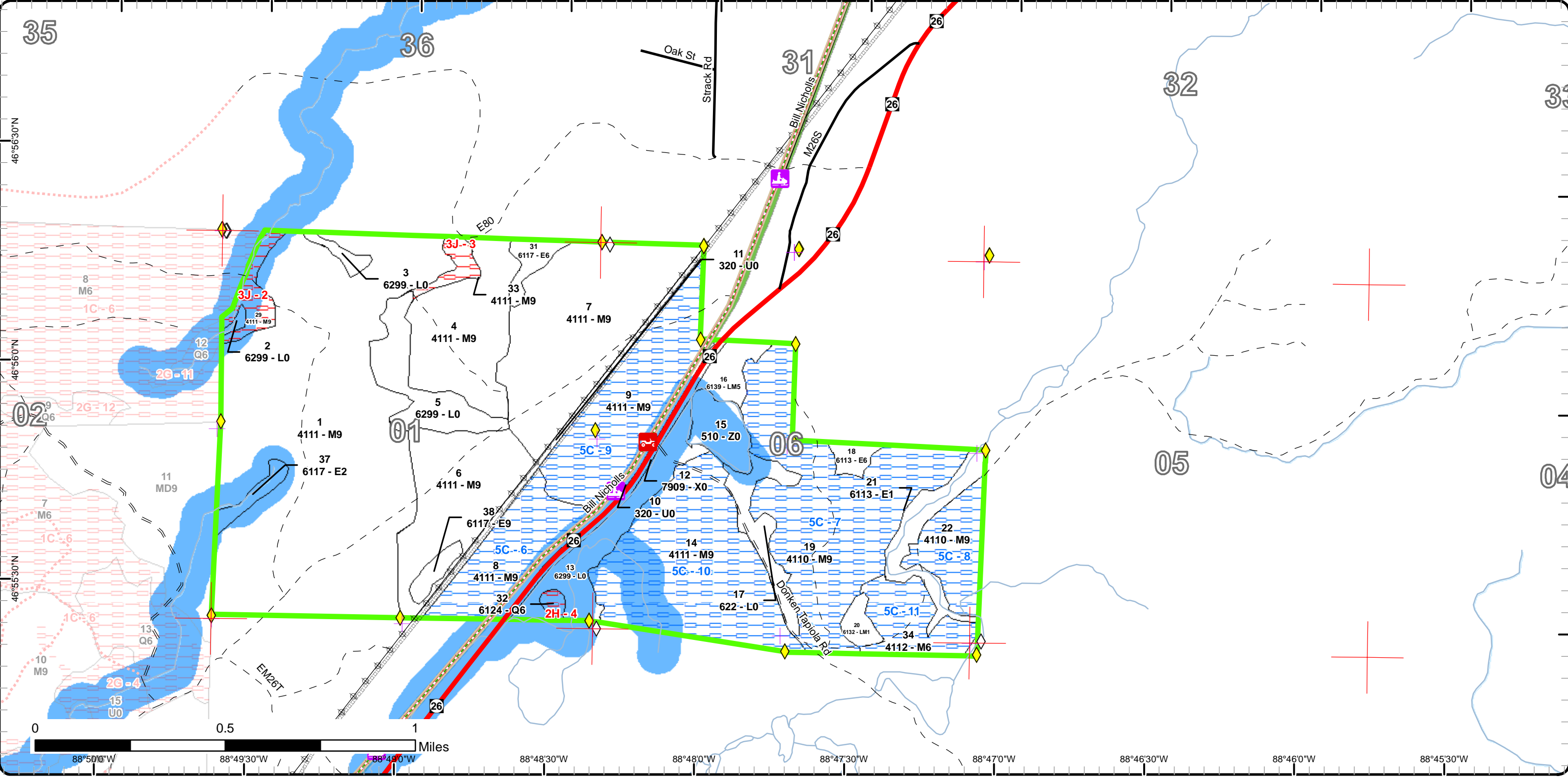


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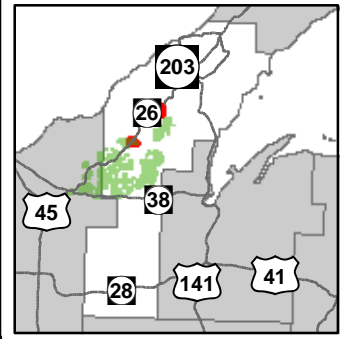


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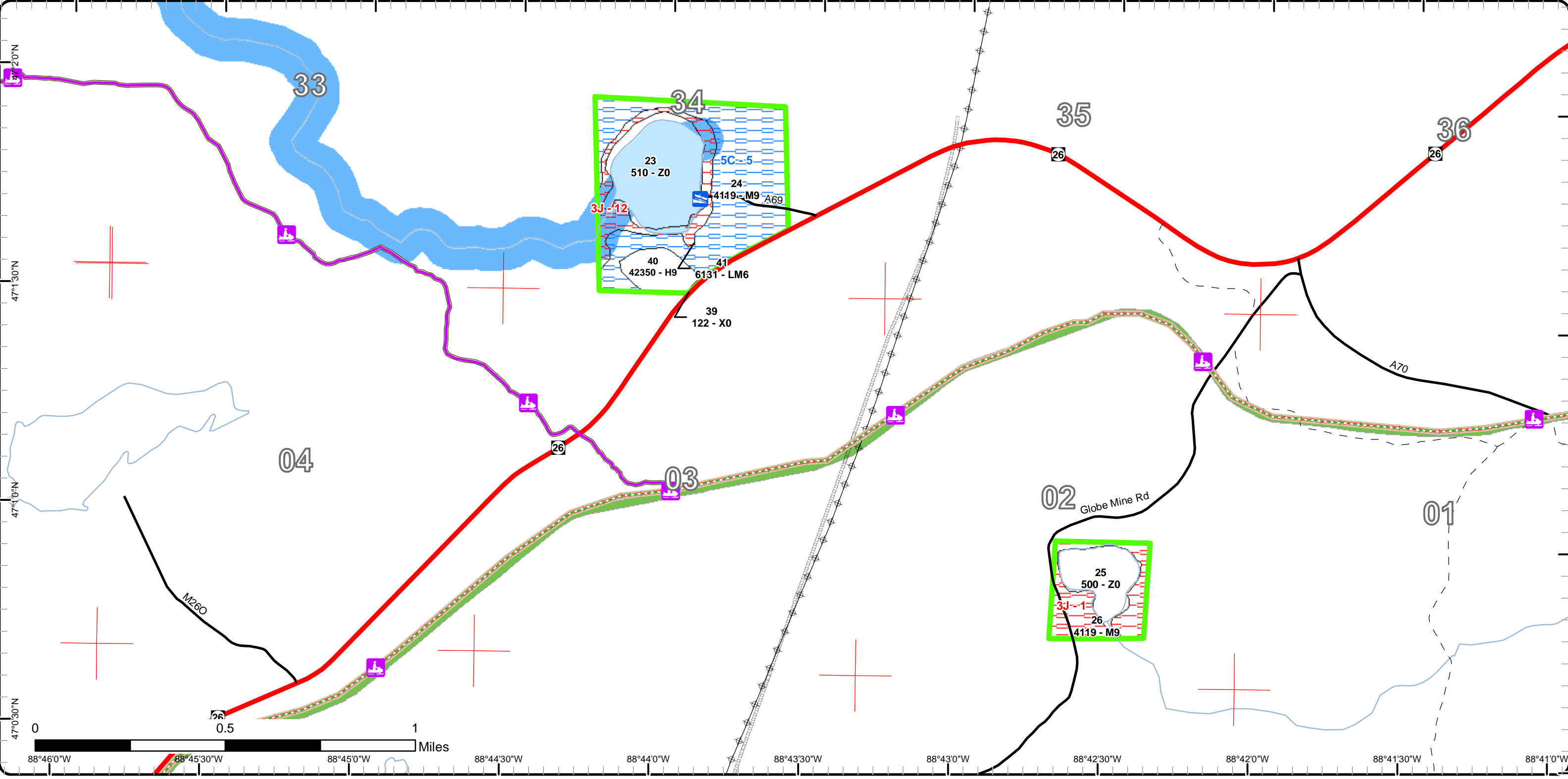


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|--|---|--|



Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Bare/Sparsely Vegetated	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Hemlock	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	12
Lowland Conifers	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	3
Lowland Deciduous	0	0	0	21	6	0	5	7	0	0	0	0	0	0	0	0	0	5	44
Lowland Mixed Forest	0	0	0	6	0	11	0	0	0	0	0	0	0	0	0	0	0	18	35
Lowland Shrub	85	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	85
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1006	1006
Upland Shrub	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22
Urban	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Water	74	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	74
Total	194	0	0	27	6	14	5	7	0	0	0	0	0	0	0	0	0	1041	1294



Report 2 – Treatment Summary

Baraga Mgt. Unit
Year of Entry: 2017

Acres of Harvest

Compartment 31
Total Compartment Acres: 1,295

Commercial Harvest - 447
Harvests with Site Condition - 0
Next Step Harvest - 0
Habitat Cut - 0

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Lowland Deciduous	0	7	0	0	0	0	0	0	0	7
Northern Hardwood	0	440	0	0	0	0	0	0	0	440
Total	0	447	0	0	0	0	0	0	0	447

Proposed and Next Step Treatments by Harvest Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	447	0	0	0	0	0	0	0	0	447
Next Step	0	0	0	0	0	0	447	0	0	447
Total	447	0	0	0	0	0	447	0	0	895



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
1	11031001-Cut	282.7	4111 - S.Maple, Hard Mast Association	Sawtimber Well	99	111- 140	Harvest	Single Tree Selection	4110 - Sugar Maple Association	Uneven- Aged	Proposal - Approval Pending Edits

Habitat Cut: No**Site Condition: None**

Prescription Selectively thin hardwoods to 70-90 sqft of BA. Favor oak, hemlock, white pine and cedar where present. Oak should be released on to an average BA of 40 sqft. Where 30 sqft or more of hemlock occurs thin to no less than 100 sqft of BA. Follow all guidelines set forth in "The Complete Marker".

Next Step
Treatments:

Acceptable Any tree species that are currently represented in the over story.
Regen:

Other If areas heavy to oak 1-5 acres are found, seed tree harvest with a residual 10-30 sq ba of oak, reserving hemlock, cedar and pine. DNR Sale
Comment: Prep. Old next step comments:

Proposed Start Date: 10/1 /2016

4	11031004-Cut	57.2	4111 - S.Maple, Hard Mast Association	Sawtimber Well	99	111- 140	Harvest	Single Tree Selection	4110 - Sugar Maple Association	Uneven- Aged	Proposal - Approval Pending Edits
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Habitat Cut: No**Site Condition: None**

Prescription Selectively thin hardwoods to 70-90 sqft of BA. Favor oak, hemlock, white pine and cedar where present. Oak should be released on 3 sides to an average BA of 60 sqft. Where 30 sqft or more of hemlock occurs thin to no less than 100 sqft of BA. Follow all guidelines set forth in "The Complete Marker".

If areas heavy to oak 1-5 acres are found, seed tree harvest with a residual 10-30 sq ba of oak, reserving hemlock, cedar and pine. DNR Sale Prep.

Next Step
Treatments:

Acceptable Any tree species that are currently represented in the over story.
Regen:

Other Stand was marked in 2007, sold, and never harvested. Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

7	11031007-Cut	99.9	4111 - S.Maple, Hard Mast Association	Sawtimber Well	99	141- 170	Harvest	Single Tree Selection	4110 - Sugar Maple Association	Uneven- Aged	Proposal - Approval Pending Edits
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Habitat Cut: No**Site Condition: None**

Prescription Selectively thin hardwoods to 70-90 sqft of BA. Favor oak, hemlock, white pine and cedar where present. Oak should be released on 3 sides to an average BA of 60 sqft. Where 30 sqft or more of hemlock occurs thin to no less than 100 sqft of BA. Follow all guidelines set forth in "The Complete Marker".

If areas heavy to oak 1-5 acres are found, seed tree harvest with a residual 10-30 sq ba of oak, reserving hemlock, cedar and pine. DNR Sale Prep.

Next Step
Treatments:

Acceptable Any tree species that are currently represented in the over story.
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
31 11031031-Cut	7.4	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	60	111- 140	Harvest	Single Tree Selection	611 - Lowland Deciduous Forest	Uneven- Aged	Proposal - Approval Pending Edits

Habitat Cut: No

Site Condition: None

Prescription Selectively thin hardwoods to 70-90 sqft of BA. Favor oak, hemlock, white pine and cedar where present. Oak should be released on 3 sides to an average BA of 60 sqft. Where 30 sqft or more of hemlock occurs thin to no less than 100 sqft of BA. Follow all guidelines set forth in "The Complete Marker".

Next Step
Treatments:

Acceptable Regen: Any tree species that are currently represented in the over story.

Other Comment: Acreage may vary due to wet ground. Old next step comments:

Proposed Start Date: 10/1 /2016

**Total Treatment
Acreage Proposed: 447.3**

**Due to limitations in the current Site Conditions Analysis tool, all nonforested acres are considered available. Future development will enable analysis of nonforested types.*

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	22	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand rings Eleven Mile Lake. Steep hillsides down to lake.							
2	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Riparian corridor							
3	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Riparian corridor							
4	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Flowing water on 4 sides.							

Report 5 – Site Conditions

Baraga Mgt. Unit
Brad Carlson : Examiner

Compartment: 31
Year of Entry: 2017

5	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	74	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Cut in 2026 to balance acres							
6	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	41	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Cut in 2026 to balance acres							
7	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	121	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Cut in 2026 to balance acres							
8	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	28	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Cut in 2026 to balance acres							
9	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	70	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	106	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 5 – Site Conditions

Baraga Mgt. Unit
Brad Carlson : Examiner

Compartment: 31
Year of Entry: 2017

11	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	27	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	18	3D: Recreational / Scenic values	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:



Report 6 – PROPOSED SPECIAL CONSERVATION AREA* (SCA) DETAILS

* This is a partial list of SCAs for this compartment. Not included are those areas identified under other Department initiatives (Natural Rivers, Deer Wintering Areas, etc.). Those will be identified in separate, future map and report products.

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



Report 7 – EXISTING SPECIAL CONSERVATION AREA DETAILS

* This is a list of SCA's for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to the Special Conservation Area Map for locations of the below listed Conservation Areas.

ERA = Ecological Reference Area
HCVA = High Conservation Value Area
SCA = Special Conservation Area

Conservation Area	Type	Description
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.

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Baraga Mgt. Unit

Report 8 – Forested Stands

Compartment: 31
Year of Entry: 2017

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4111 - S.Maple, Hard Mast Association	Sawtimber Well	282.7	99	111-140	Sel. Cut completed Feb., 2001 by Northern hardwoods/Rossi.
4	4111 - S.Maple, Hard Mast Association	Sawtimber Well	57.2	99	111-140	Rock Hole Hdwd 1988. 11-010-07-01 Donken Hdwd, never cut in 2007. Ready. Re-mark with a different color paint?
6	4111 - S.Maple, Hard Mast Association	Sawtimber Well	59.5	99	81-110	1988 Rock Hole Hdwd, 11-010-07-01 Donken Hdwd Units TCR 9/11/2012.
7	4111 - S.Maple, Hard Mast Association	Sawtimber Well	99.9	99	141-170	Nichols Trail Hdwd. Completed Spring 2002.
8	4111 - S.Maple, Hard Mast Association	Sawtimber Well	41.4	99	141-170	Nicholls Trail Hdwd, completed over 2 Winters. Done by Spring 2002. Stand is adjacent to the Bill Nicholls snowmobile trail on the west side.
9	4111 - S.Maple, Hard Mast Association	Sawtimber Well	70.3	99	111-140	NORTH OF DRAINAGE VERY STEEP TERRAIN. PARTLY BLUFF. Stand is adjacent to the Bill Nicholls snowmobile trail on the West side. Harvested in 2007/08 as part of "NorthEnd Hardwoods" (11-011-07-01)
14	4111 - S.Maple, Hard Mast Association	Sawtimber Well	105.8	99	111-140	harvested in 2007/08 as part of "NorthEnd Hardwoods" (11-011-07-01)
16	6139 - Mixed Lowland Forest	Poletimber Medium	11.0	40	Unspecified	Sparsely forested lowland drainage, heavy to tag alder.
18	6113 - Lowland Maple	Poletimber Well	5.1	50	Unspecified	Wet ground. E type.
19	4110 - Sugar Maple Association	Sawtimber Well	121.0	99	141-170	Selection cut completed Fall, 2000 by Northern Hardwoods/Rossi, Smokey Hdwds.
20	6132 - Mixed Lowland Forest with Cedar	Sapling Poor	5.7	20	Immature	Old beaver pond, growing in.
21	6113 - Lowland Maple	Sapling Poor	21.3	20	Immature	Drainage with saplings creeping in on edges.
22	4110 - Sugar Maple Association	Sawtimber Well	28.2	99	141-170	BA 110-160 (2015) Fair amount of under brush. Selection cut completed Fall, 2000 by Northern hardwoods/Rossi, Smokey Hdwds.
24	4119 - Mixed Northern Hardwoods	Sawtimber Well	73.9	99	111-140	
26	4119 - Mixed Northern Hardwoods	Sawtimber Well	21.5	99	111-140	Fringe around Eleven mile lake. Old Fish Division rearing pond.
29	4111 - S.Maple, Hard Mast Association	Sawtimber Well	11.3	99	111-140	Drainage.

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Baraga Mgt. Unit

Report 8 – Forested Stands

Compartment: 31
Year of Entry: 2017

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
31	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	7.4	60	111-140	Was set up for Donken Hdwd and never cut. E type that can be marked through.
32	6124 - Lowland Spruce-Fir	Poletimber Well	2.6	40	Unspecified	Small island stand.
33	4111 - S.Maple, Hard Mast Association	Sawtimber Well	6.2	99	111-140	11-010-07-01 Donken Hdwd Units. Drainage runs through the stand.
34	4112 - Maple, Beech, Cherry Association	Poletimber Well	27.1	60	111-140	Pole stand with wet pockets throughout. Heavy patches of hemlock and cedar.
37	6117 - Lowland Deciduous, Mixed Coniferous	Sapling Medium	5.9	30	1-50	Beaver flooded timber.
38	6117 - Lowland Deciduous, Mixed Coniferous	Sawtimber Well	5.5	99	111-140	Very wet ground.
40	42350 - Upland Hemlock	Sawtimber Well	11.6	99	171-200	H9 stand.
41	6131 - Hemlock, White Pine, Maple, Birch	Poletimber Well	17.9	99	111-140	



Stand	Cover Type	Acres	Managed Site	General Comments:
2	6299 - Lowland Shrub (OI)	1.4	No	Beaver flooded timber.
3	6299 - Lowland Shrub (OI)	3.8	No	Beaver flooded timber
5	6299 - Lowland Shrub (OI)	27.7	No	beaver flooded timber.
10	320 - Upland Shrub	11.4	No	Nicholls Trail ROW
11	320 - Upland Shrub	10.5	No	Double Pole Power line
12	7909 - Nonstocked (OI)	11.7	No	M-26 ROW
13	6299 - Lowland Shrub (OI)	34.3	No	Drainage.
15	510- Water (OI)	15.2	No	DONKEN LAKE
17	622 - Lowland Shrub	18.0	No	Tag alder drainage.
23	510- Water (OI)	39.9	No	Lake Perault
25	500 - Water	19.0	No	ELEVENMILE LAKE. Old Fish Division rearing pond.
39	122 - Road/Parking Lot	1.5	No	M-26