



Compartment Review Presentation

Baraga Forest Management Unit

Compartment 11066

Entry Year: 2027

Acreage: 702

County: Ontonagon

Management Area: Houghton Hardwoods

Stand Examiner: Jason Collins

Legal Description:

T51N R37W, Sections 30, 31

T51N R38W, Section 36

Identified Planning Goals:

Manage for northern hardwood. Expand the oak component.

Soil and topography:

There is a ridge in part of the compartment. The remainder is level to rolling. Soils are clays and clay loams: Ontonagon – Bohemian association, Iron River loam, and Watton – Iron River – Baraga association.

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

This compartment is surrounded by private land. Mass City is to the southwest. Most of the private land is managed for timber.

Unique Natural Features:

Potential for eagle, wood turtle, osprey, great blue heron rookery, goshawk, red-shouldered hawk, moose, and wolf.

Archeological, Historical, and Cultural Features:

This area was intensively mined and explored for mines. There are numerous old mine workings. Any obvious foundations from the copper mining era shall be left out of any treatment and buffered.

Special Management Designations or Considerations:

Watershed and Fisheries Considerations:

This compartment contains Adventure Creek, Payseor Creek, and several unnamed designated trout streams. Maintain a buffer to the high bank of the valley wall along the designated trout stream in stand 003.

Wildlife Habitat Considerations:

Work to increase the oak and hemlock component.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of lacustrine (lake) clay and silt and thin to discontinuous till over bedrock. The glacial drift thickness varies from 100 to 200 feet. The Precambrian Portage Lake Volcanics subcrop below the glacial drift. The Portage Lake does not have a current economic use. Several abandoned copper mines are located in the Compartment. The compartment was previously leased and one parcel is currently leased, associated with the abandoned Adventure Mine. State lands in the area are leased for metallic mineral exploration. Gravel pits are located in the Compartment and potential may be good in places. There is no economic oil and gas production in the UP.

Vehicle Access:

M-26 crosses the compartment. Access to the compartment is good. Internal access is fair.

Survey Needs:

Survey will be needed for harvest activities.

Recreational Facilities and Opportunities:

The Bill Nicholls Rail-Trail crosses the compartment. This is used for snowmobile in the winter and as an ORV route in the summer.

Fire Protection:

This is not a fire prone area.

Additional Compartment Information:

The following reports from the Inventory are attached:

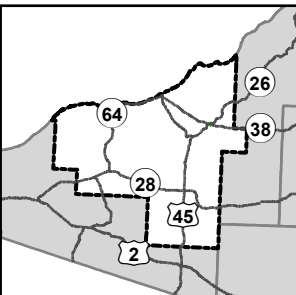
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

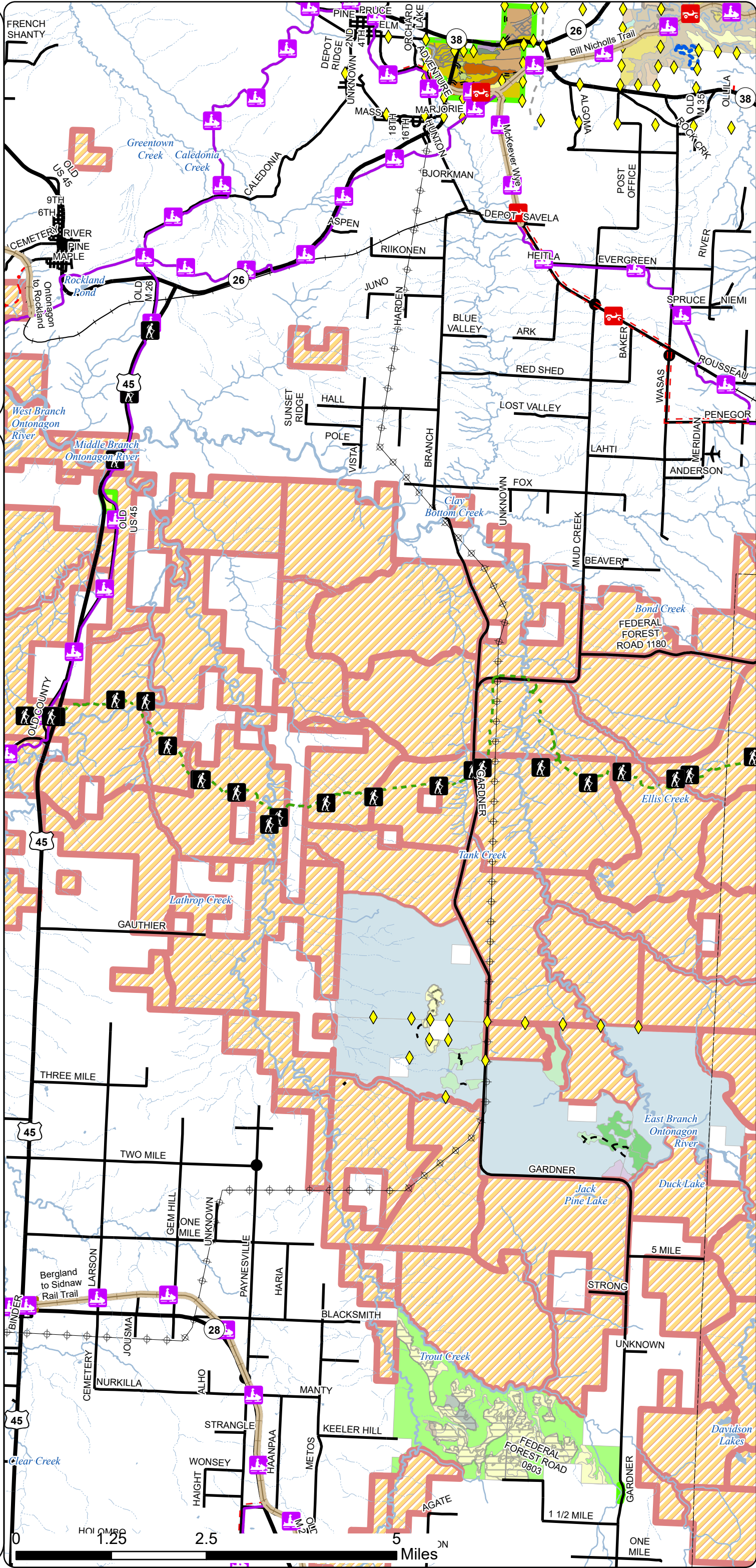
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 11066
T51N R37W, Sections 30, 31
County: Ontonagon
Unit: Baraga
Mgmt. Area: Houghton Hardwoods
YOE: 2027
Acres: 701.77 GIS Calculated
Examiner: Jason Collins
Date Exported: 09/15/2025
Map Phase: Post Review

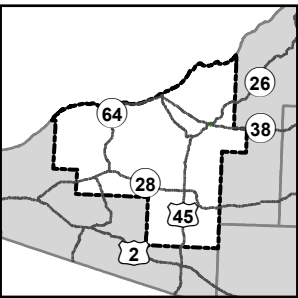


- Survey Grade Corners
- Gas Station
- Airport
- Berms
- Campground
- City
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Paved Road
- Private - Dirt / Gravel Road
- Active Railroads
- Abandoned Railroads
- Powerline
- Intermittent Stream
- Perennial River
- Lakes and Rivers
- Counties
- Compartment Boundary
- Treatments with Site Conditions
- Clearcut
- Selection
- Clearcut
- Monitoring - Regeneration
- Monitoring
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 122 - Road/Parking Lot
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees

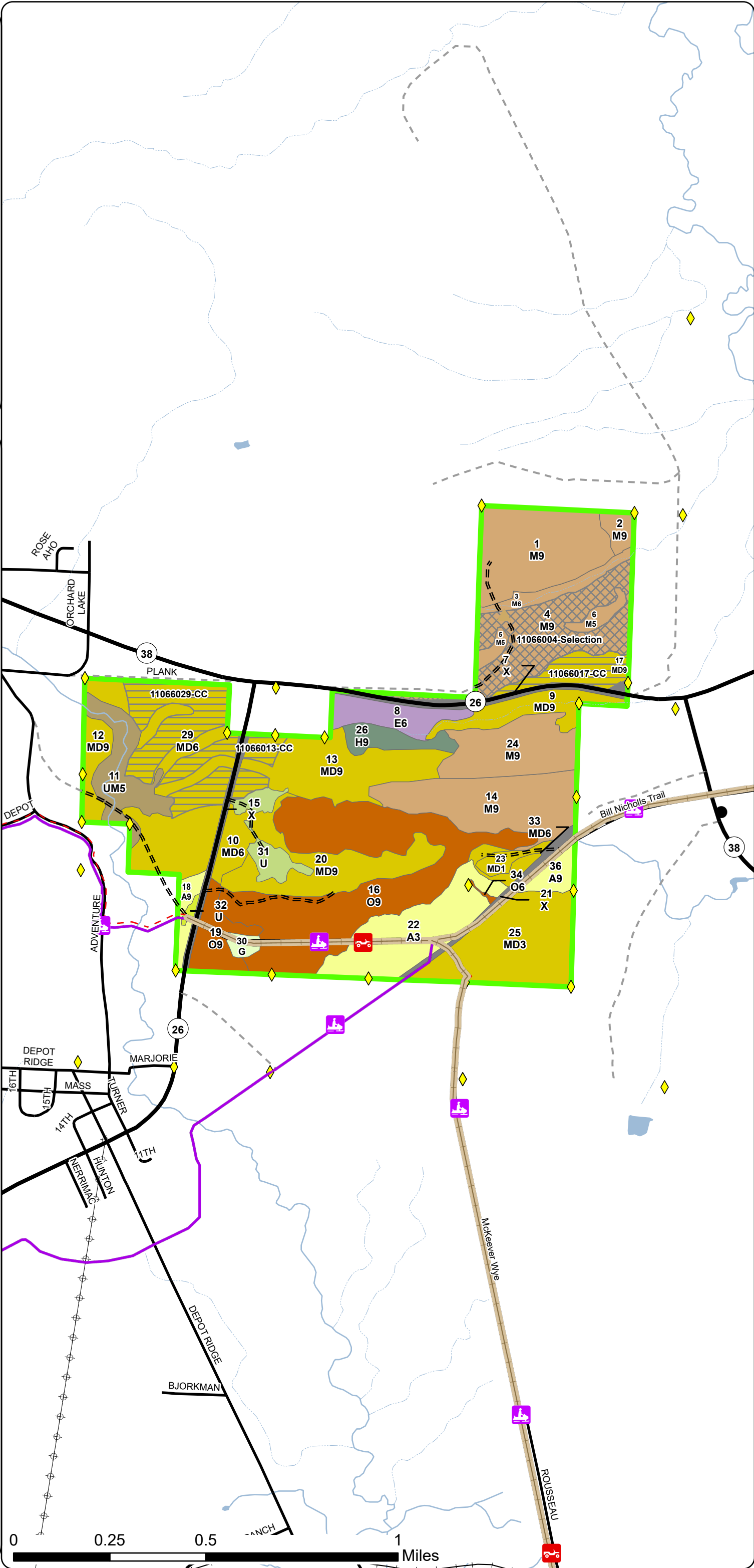


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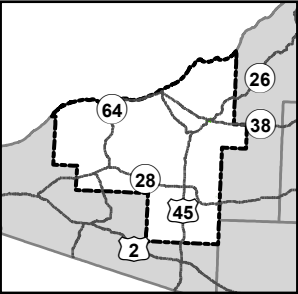


- Survey Grade Corners
- Berms
- City
- Designated ORV Routes
- Designated Snowmobile Trails
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
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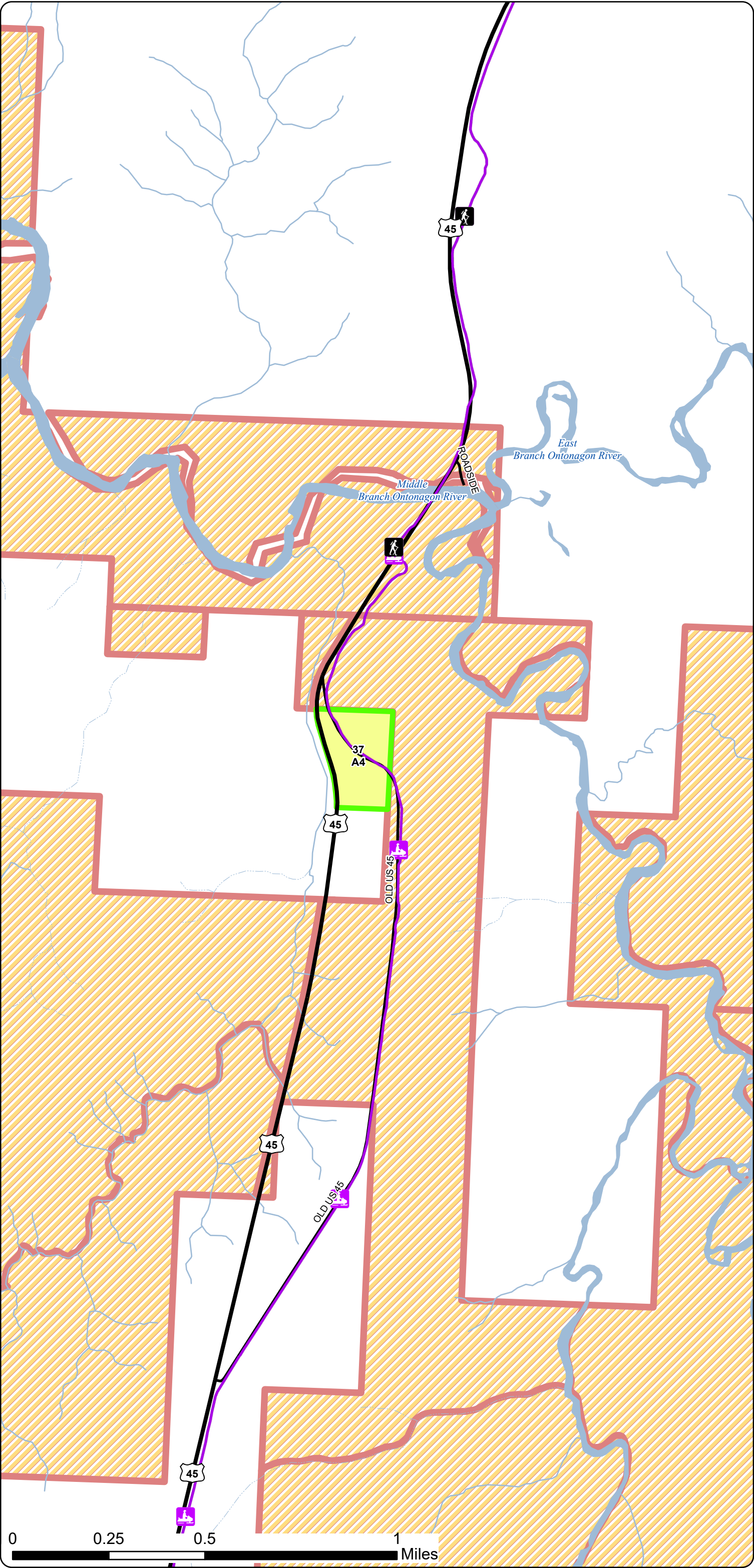


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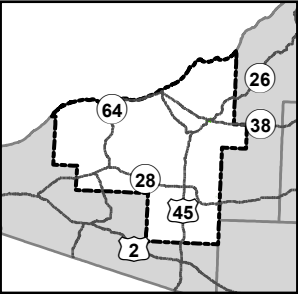


- Designated Snowmobile Trails
- Federal / State Highway
- Federal / State / County - Paved Road
- Intermittent Stream
- Perennial River
- Lakes and Rivers
- Counties
- Compartment Boundary
- 413 - Aspen

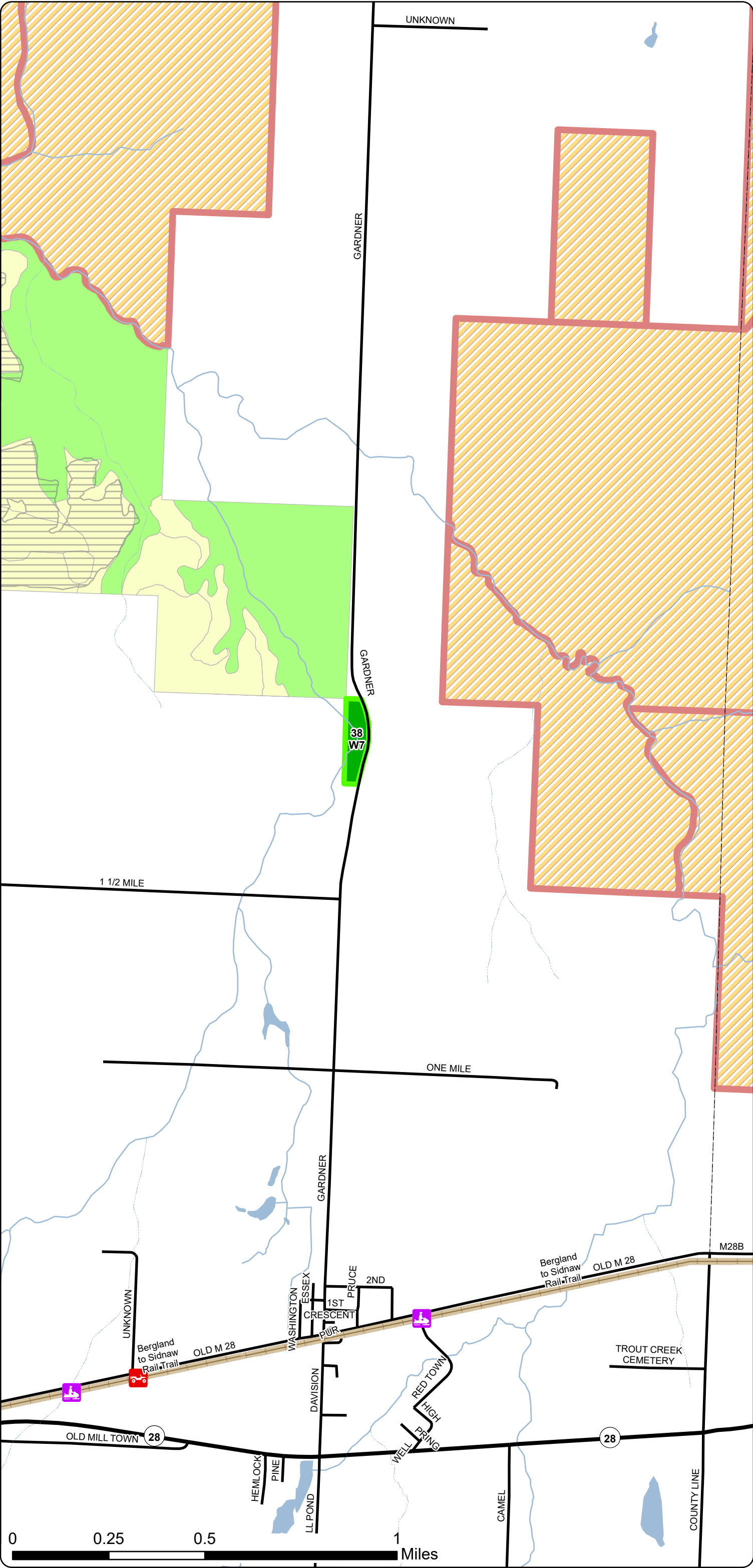


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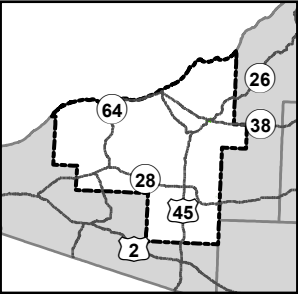


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- Clearcut
- 422 - Natural Pines

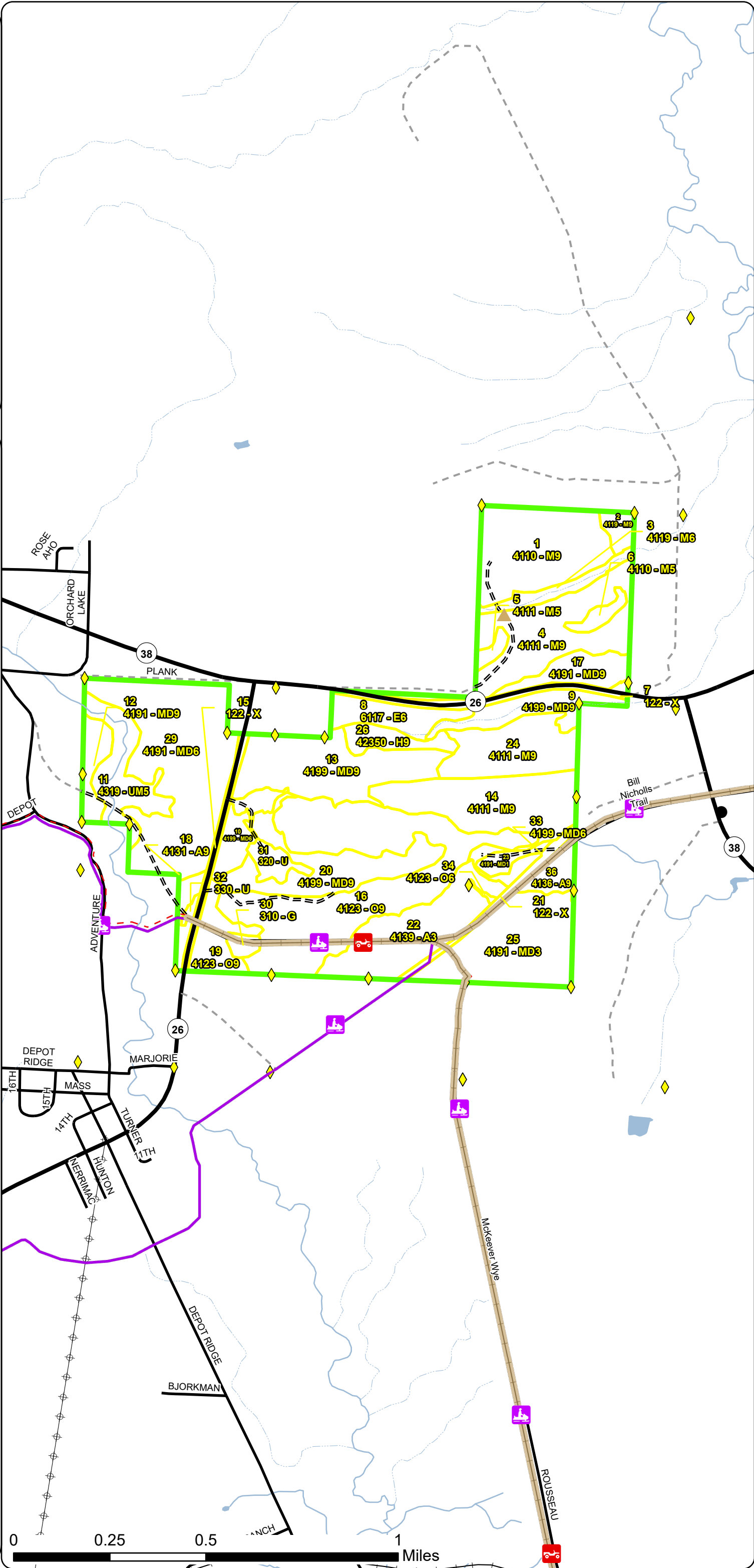


Stand Boundary
Map

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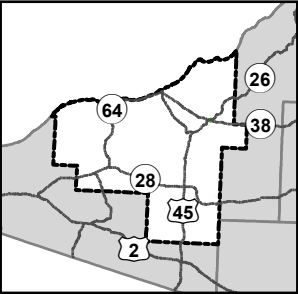


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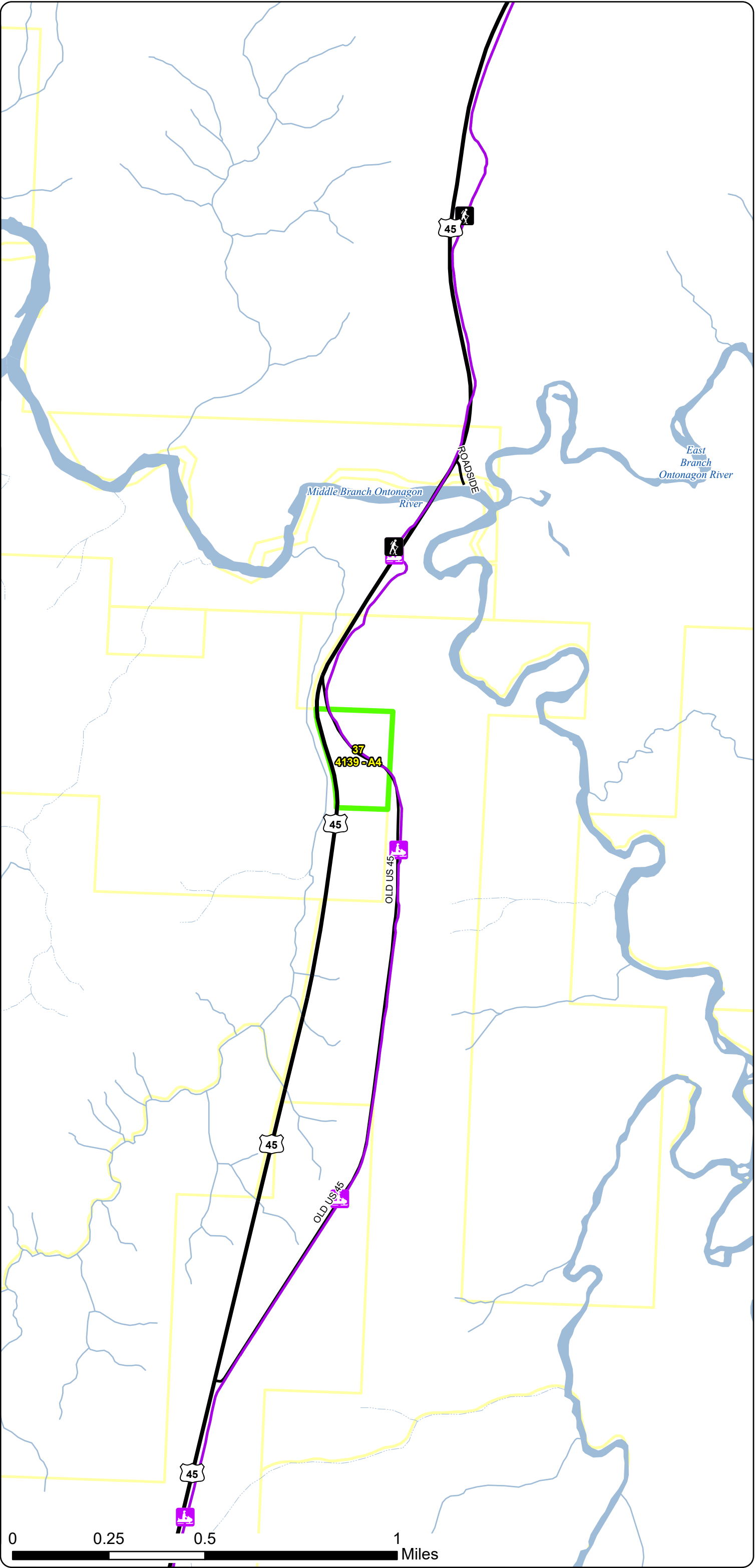


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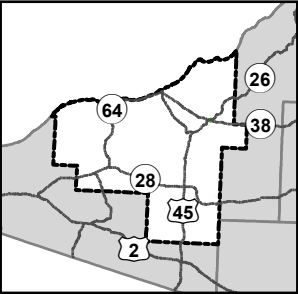


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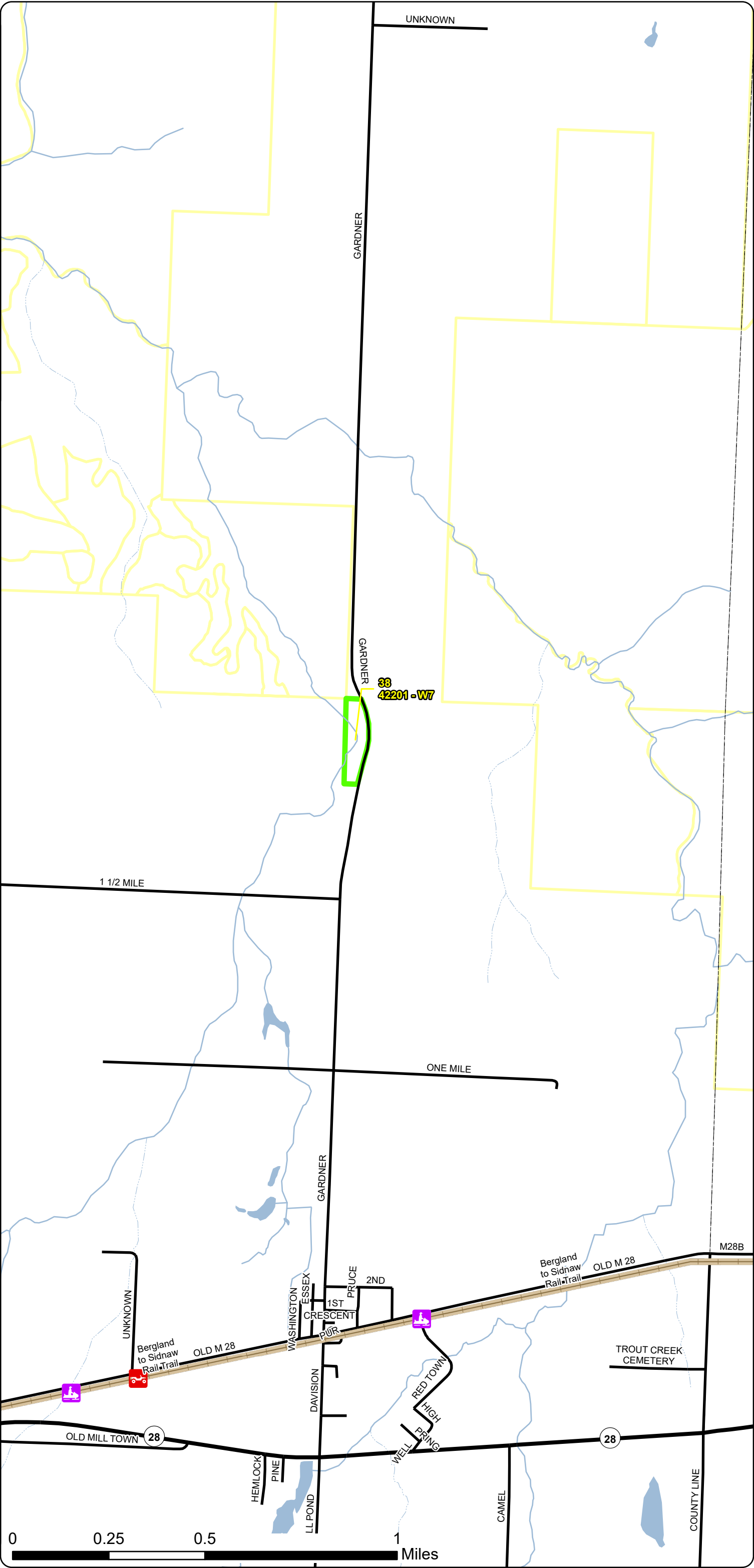


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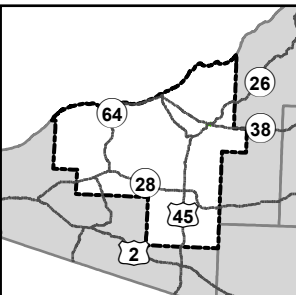


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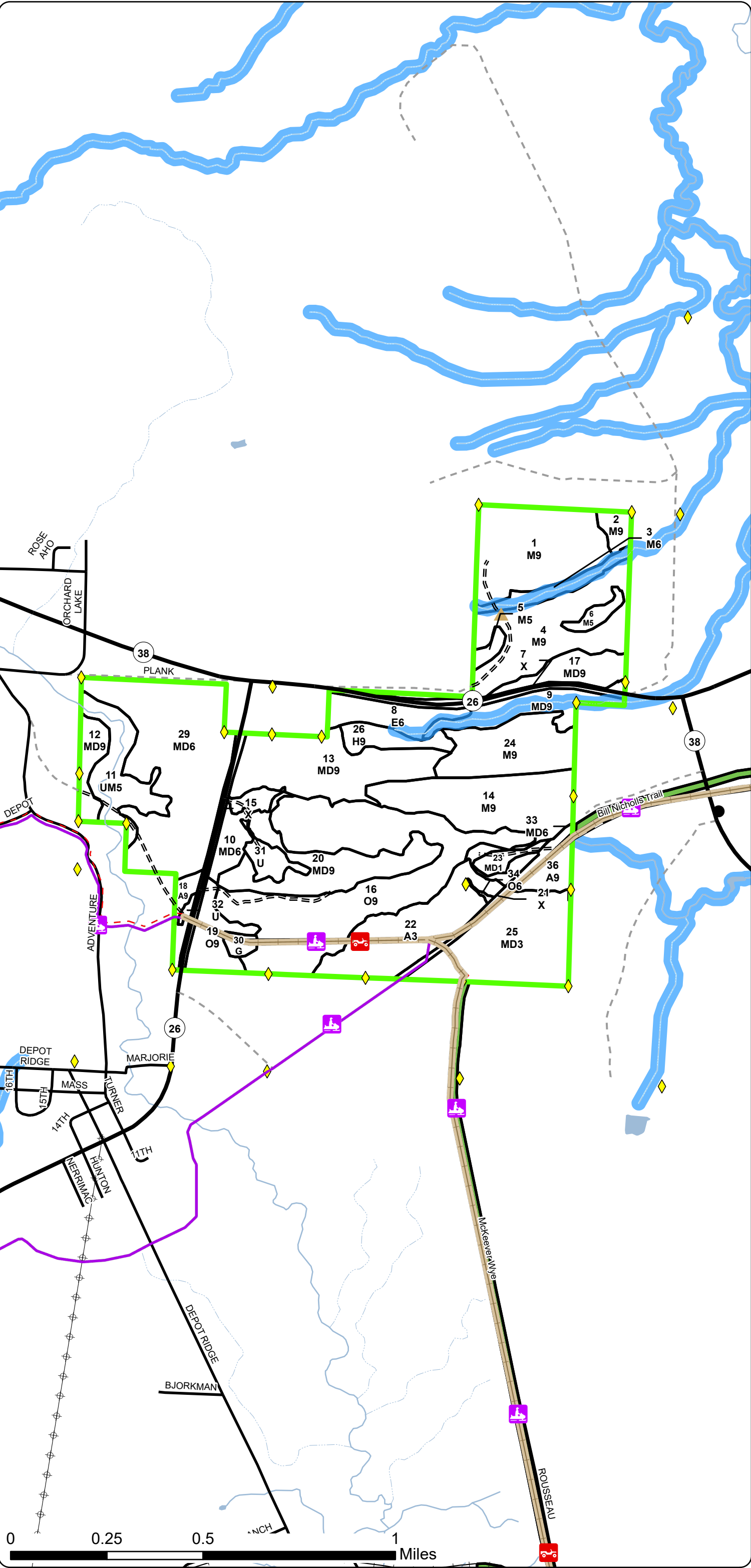


Special Conservation Areas
& Site Conditions Map

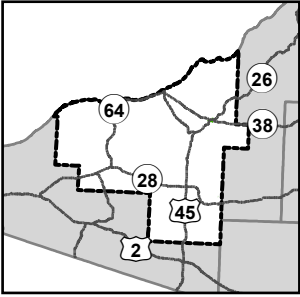
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- Counties
- Compartment Boundary
- Stand Boundaries
- SCA
- Cold Water Streams
- High Priority Trout Stream Buffer
- Trail - Trail Corridor



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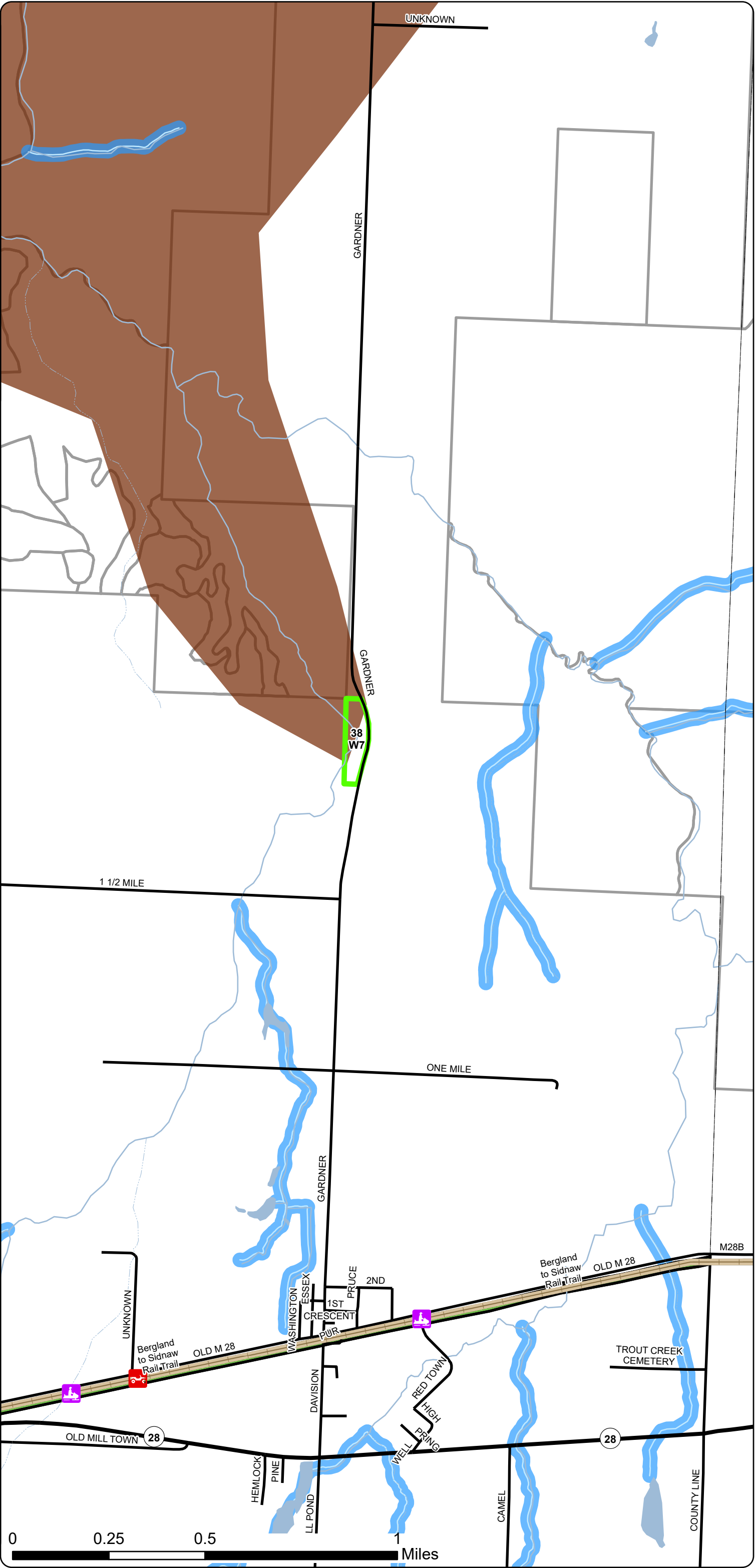
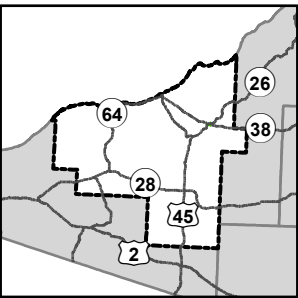


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- This map illustrates the proposed 37 A4 project area, which is highlighted in green. The project is located along the Middle Branch Ontonagon River. The map also shows the East Branch Ontonagon River and the surrounding land. A scale bar at the bottom indicates distances from 0 to 1 mile. The map includes labels for 'ROADSIDE', 'MIDDLE BRANCH ONTONAGON RIVER', 'EAST BRANCH ONTONAGON RIVER', '37 A4', 'OLD US 45', and 'US 45'.



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- Perennial River
- Lakes and Rivers
- Counties
- Compartment Boundary
- Stand Boundaries
- SCA
- Cold Water Streams
- High Priority Trout Stream Buffer
- Deer Winter Range
- Trail - Trail Corridor

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
Aspen	0	38	0	0	0	27	8	0	0	0	0	0	0	0	0	0	0	5	78
Hemlock	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	9
Herbaceous Openland	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Low-Density Trees	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Lowland Deciduous	0	0	0	0	0	0	14	0	0	0	0	0	0	0	0	0	0	0	14
Mixed Upland Deciduous	0	44	0	0	0	0	84	13	4	91	0	0	0	0	0	0	0	9	245
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	179	179
Oak	0	0	0	0	0	0	0	0	0	92	13	0	0	0	0	0	0	0	105
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	0	22	0	0	0	0	0	22
Upland Shrub	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Urban	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23
White Pine	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	7
Total	37	82	0	0	0	27	106	13	4	199	13	0	22	0	0	0	0	193	696



Report 2 – Treatment Summary

Baraga Mgt. Unit
Year of Entry: 2027

Acres of Harvest

Compartment 66
Total Compartment Acres: 702

Commercial Harvest - 204
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
Mixed Upland Deciduous	58	0	0	0	0	0	0	0	0	58
Northern Hardwood	0	44	0	0	0	0	0	0	0	44
Total	58	44	0	0	0	0	0	0	0	102

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	102	0	0	0	0	0	0	0	0	102
Next Step	0	0	0	0	0	0	102	0	0	102
Total	102	0	0	0	0	0	102	0	0	204



Standard

Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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Approved Treatments:

4	11066004-Selection	44.2	4111 - S.Maple, Hard Mast Association	9	84	81-110	Harvest	Selection	411 - Northern Hardwood	Current	No
<u>Prescription</u> Selectively thin hardwoods to 70-90 square feet of basal area. 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 <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Intermediate) <u>Treatments:</u> <u>Acceptable</u> Any combination of the original stands over story species prior to harvest. <u>Regen:</u> <u>Other</u> Retention for this stand will be greater than 3% and will consist of tree species of the dominant cover type and reserve tree species. <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026											
13	11066013-CC	7.2	4199 - Other Mixed Upland Deciduous	9	88	111-140	Harvest	Clearcut	4199 - Other Mixed Upland Deciduous	Planting Record	No
<u>Prescription</u> Harvest all species down to 4.6 inches DBH except hemlock, cedar and white pine. Also, reserve red oak if present. Remove low lying drains from treatment area to create 150' wide strips of unharvested timber to create thermal edge for summer roosting ba <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Intermediate) <u>Treatments:</u> <u>Acceptable</u> Any combination of the original stands over story species prior to harvest. <u>Regen:</u> <u>Other</u> Retention for this stand will be greater than 3% and will consist of reserve tree species. Per John Depue request strip low lying of timber in center of stand was left for wildlife habitat. Add Research Site Condition post harvest for Monitoring purposes <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026											
17	11066017-CC	12.9	4191 - Mixed Upland Deciduous with Conifer	9	60	111-140	Harvest	Clearcut	411 - Northern Hardwood	Planting Record	No
<u>Prescription</u> Harvest all species down to 4.6 inches DBH except hemlock, cedar and white pine. Also, reserve red oak if present. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Intermediate) <u>Treatments:</u> <u>Acceptable</u> Any combination of the original stands over story species prior to harvest. <u>Regen:</u> <u>Other</u> Add monitoring site condition post harvest due to the ash component. <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026											

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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
29 11066029-CC	37.94	191 - Mixed Upland Deciduous with Conifer	6	55	81-110	Harvest	Clearcut	413 - Aspen	Planting Record	No
<u>Prescription Specs:</u> Harvest all species down to 4.6 inches DBH except hemlock, cedar and white pine. Also, reserve red oak if present. Remove low lying drains from treatment area to create 150' wide strips of unharvested timber to create thermal edge for summer roosting ba										
<u>Next Step:</u> Monitoring, Natural Regen (Intermediate)										
<u>Treatments:</u>										
<u>Acceptable Regen:</u> Any combination of the original stands over story species prior to harvest.										
<u>Other Comment:</u> Retention for this stand will be greater than 3% and will consist of tree species of the dominant cover type and reserve tree species. Looked at treatment area with John DePue and he wanted the area to be strip clearcuts with brakes of unharvested timber										
<u>Site Condition:</u>										
<u>Proposed Start Date:</u> 10/01/2026										

Total Treatment
Acreage Proposed: 102.2

Report 4 – Site Conditions



Availability for Management

Total Acres Acres Available Acres With Condition Acres Not Available

Dominant Site Conditions

5C 2F 2G 2H 3B 3J 3L

78	38	0	40	Aspen		27			13		
9	0	0	9	Hemlock					9		
3	3	0	0	Herbaceous Openland							
1	1	0	0	Low-Density Trees							
14	0	0	14	Lowland Deciduous			14				
162	13	0	149	Mixed Upland Deciduous		16			121		12
178	44	44	90	Northern Hardwood	44	7		5	71	8	
106	0	23	82	Oak	23				82		
22	0	0	22	Upland Mixed Forest						22	
10	10	0	0	Upland Shrub							
23	23	0	0	Urban							
7	0	0	7	White Pine		7					
614	133	67	414	Total Forested Acres	67	57	14	5	297	30	12
	22%	11%	67%	Relative Percent							

*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	Dominant Site 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)	8	2F: Too steep	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified
Comments:								
2	Unavailable		2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	5	2F: Too steep	Unspecified	Unspecified	Unspecified
Comments:								

Report 4 – Site Conditions



3	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	14	3B: Threatened, endangered, and special concern species	Unspecified	Unspecified	Unspecified
Comments:							
4	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	44	Unspecified	Unspecified	Unspecified	Unspecified
Comments: 2025 - BA range of 80-90. Look at possible harvest in 2037.							
5	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	23	Unspecified	Unspecified	Unspecified	Unspecified
Comments: 2025 - Look at harvest in 2037.							
6	Unavailable	2F: Too steep	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	3B: Threatened, endangered, and special concern species	9	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	22	2G: Too wet (sensitive soils, does not include access issues)	3B: Threatened, endangered, and special concern species	Unspecified	Unspecified
Comments: Stand is too wet and majority is within the bat hibernacula buffer.							

Report 4 – Site Conditions



9	Unavailable	2F: Too steep	16	3B: Threatened, endangered, and special concern species	Unspecified	Unspecified	Unspecified
Comments: 2025 - Small part of stand falls within bat hibernacula buffer.							
10	Unavailable	2F: Too steep	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	2F: Too steep	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	2F: Too steep	27	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Hill next to US 45 with the Snowmobile trail running through.							
14	Unavailable	3L: Other wildlife concerns	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Buffer Wet areas Per Wildlife Division for Bat Habitat.							
17	Unavailable	3B: Threatened, endangered, and special concern species	288	Unspecified	Unspecified	Unspecified	Unspecified
Comments: 2025 - Stand site conditioned due to wildlife concerns.							

Mgt. Unit

Compartment: #Type!
Year of Entry:

Report 5 – 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
Comments				



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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																	
15	122 - Road/Parking Lot	None	6.9			No	HIGHWAY M-26																																																																	
16	4123 - Red Oak	Sawtimber Well	92.4	81	81-110	N/A	2025 - Majority of stand is site conditioned due to wildlife concerns.2015 - NICE OAK WITH MANY QUALITY SMALL LOGS IN STAND. Was harvested in 2007/08 as part of "Two Step Hardwoods" (11-018-07-01)																																																																	
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17	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	12.9	60	111-140	N/A	wet ground, some dieback starting to appear 2014.																																																																	
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18	4131 - Aspen, Oak	Sawtimber Well	5.2	54	81-110	N/A	Stand is Site Conditioned due to bat hibernacula.OI Stand Year Origin was 555Most of maple is in the north part of stand.																																																																	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
26	42350 - Upland Hemlock	Sawtimber Well	9.1	81	111-140	N/A	2025 - Stand site conditioned due to wildlife concerns.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		25		11		White Ash	Full	>20 feet	>20 feet
Red Oak		10		14		Balsam Fir	High	>20 feet	>20 feet
White Spruce		5		9		Hemlock	Low	10 - 20 feet	10 - 20 feet
Hemlock		60		14	81				
29	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	76.7	55	81-110	N/A	Possibly cut in 2027, Lots of wet areas with small dia. ash. South and West of stand are site conditioned due to Bat Hibernacula		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir		7	Seedling	7		White Ash	Full	>20 feet	>20 feet
White Ash		5	Seedling	7	55	Red Maple	Full	>20 feet	>20 feet
Black Ash		10	Seedling	7		Balsam Fir	Full	>20 feet	>20 feet
Red Maple		20	Seedling	6		Northern White Cedar	Low	Variable	Variable
Paper Birch		5	Seedling	6		Ironwood	Medium	>20 feet	>20 feet
Red Oak		3	Seedling	8					
White Spruce		5		10					
Northern White Cedar		10		9					
Hemlock		10		14					
Yellow Birch		5	Seedling	7					
Quaking Aspen		20		12	55				
30	310 - Herbaceous Openland	None	2.8			No	Site of old Greenland Dump. This site was closed by DEQ, and has a restrictive covenant.		
31	320 - Upland Shrub	None	10.4			No	2025 - Edges beginning to reforest with paper birch.Grass area, State Police radio tower on south end.		
32	330 - Low-Density Trees	None	1.0			No	2025 - Mostly open area off highway. Beginning to reforest.		
33	4199 - Other Mixed Upland Deciduous	Poletimber Well	4.3	70	111-140	N/A	POOR OVER STORY WITH NICE POLES COMING UP UNDER.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine		1		18		Balsam Fir	Medium	Variable	Variable
Sugar Maple		25		8		White Ash	Full	>20 feet	>20 feet
Quaking Aspen		15		14		Red Oak	Full	10 - 20 feet	10 - 20 feet
Red Oak		55		11	70	Hemlock	High	Variable	Variable
Hemlock		4	Seedling	8					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
34	4123 - Red Oak	Poletimber Well	0.4	70	111-140	N/A	POOR OVER STORY WITH NICE POLES COMING UP UNDER.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple		20		8		Balsam Fir	Medium	10 - 20 feet	10 - 20 feet
Red Oak		64		11	70	Red Maple	Medium	Variable	Variable
Hemlock		4	Seedling	8		Ironwood	Medium	>20 feet	>20 feet
Yellow Birch		1	Seedling	6		White Ash	Full	>20 feet	>20 feet
Quaking Aspen		10		14		Red Oak	Full	10 - 20 feet	10 - 20 feet
Ironwood		1	Seedling	5		Hemlock	High	Variable	Variable
36	4136 - Aspen, Mixed Conifer	Sawtimber Well	7.7	55	111-140	N/A	Originally part of stand 25. Was not harvested with the with the rest.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Spruce		5		10		Balsam Fir	Medium	Variable	Variable
Northern White Cedar		5		10		Ironwood	Low	Variable	Variable
Balsam Fir		5	Sapling	6		White Spruce	Low	Variable	Variable
Quaking Aspen		70		12	55	Red Maple	Medium	>20 feet	>20 feet
White Pine		5		16					
Red Maple		10	Seedling	8	55				
37	4139 - Aspen, Mixed Deciduous	Poletimber Poor	26.7	40	1-50	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar		10	Log	3		Red Maple	Low	Variable	Variable
Quaking Aspen		50	Seedling	6	40	Hazelnut (Beaked)	High	5 - 10 feet	5 - 10 feet
Red Maple		40	Pole	4	40				
38	42201 - Natural White Pine, Mixed Deciduous	Sawtimber Poor	7.3	80	51-80	N/A	Stand is a slope along Garner Rd leading down to Payseor Creek.		
Canopy Species		% Cover	Size Class	DBH	Age				
White Pine		60		16	80				
Red Maple		20	Seedling	8					
Quaking Aspen		20		16					