



Compartment Review Presentation

Cadillac Forest Management Unit

Compartment 63142

Entry Year 2018

Acreage: 2,415

County Wexford

Management Area: Upper Muskegon

Revision Date: 2016-06-10

Stand Examiner: Blair Tweedale

Legal Description:

T22N,R9W; Sec(s) 14,23,24,25,26,27,36. T21N,R9W; Sec(s) 6,16. T21N,R10W; Sec (s) 24,25,35,36.

Identified Planning Goals:

Vegetation management in the Upper Muskegon management area (MA) (Figure 2.27.1) will provide forest products; maintain or enhance wildlife habitat; protect areas of unique threatened, endangered and special concern species; and provide for forest-based recreational uses. Timber management for this 10-year period will focus on harvesting older jack pine and balancing age class distributions of oak, aspen and red pine. Wildlife habitat management objectives include perpetuating early-successional communities for species adapted to young forests for hunting and other wildlife-related recreation. Expected trends within this 10-year planning period are the need to manage exotic species (especially Phragmites and glossy buckthorn), the need to continue to manage cover types for a balanced age-class distribution and an expected increase in recreation pressure.

Soil and topography:

Rubicon Sands and Lupton muck in the low ground.

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

Compartment is widely scattered throughout three townships with a mixture of state and private in each.

Unique Natural Features:

Potential for great blue heron rookery, osprey, eagle, goshawk, red-shouldered hawk, massasauga, wood turtle, and Blanding's turtle. Potential for rare mussels in rivers: elktoe, slippershell mussel, ellipse. Potential for bigmouth shiner in rivers.

Archeological, Historical, and Cultural Features:

Indian mounds are located within the compartment.

Special Management Designations or Considerations:

Parts of the compartment have high recreational use. Treatments along the Cadillac pathway will need to address visual concerns. Do not treat stands along the cross country ski trail during ski season.

Watershed and Fisheries Considerations:

The Clam River flows through Compartment 142. The Clam River hosts a strong population of naturally reproducing brook trout. The Clam River is unique in that it provides the rare opportunity for anglers to catch large (15"+) brook trout.

Wildlife Habitat Considerations:

Management emphasis is on maintenance of aspen and lowland types, oak regeneration and allowing for northern hardwood conversion from pine plantations as applicable. Featured species include deer, ruffed grouse and woodcock. Timber sale specifications to benefit these featured species (where applicable) will include appropriate buffers to maintain lowland hydrology, maintenance of lowland shrubs, protection of mast-bearing wildlife shrubs and ironwood, protection of standing dead snags, and creation of drumming logs (1-2 per acre) and woody debris (tops or whole trees) in aspen cuts. (Victory, 5/24/16)

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of an end moraine of coarse-textured till and glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 600 and 1,000 feet. Beneath the glacial drift are the Pennsylvanian Grand River and Saginaw Formations. The Saginaw is quarried for clay for bricks in other areas of the State. A gravel pit is located in Section 35 and potential is good. This area is located eighteen miles southeast of the prolific Silurian Niagaran reef trend. Oil and gas has limited potential in the Compartment and none of the State lands are leased for oil and gas exploration.

Vehicle Access:

A forest road access plan is detailed on the compartment map. Identified are state and county roads as well as forest roads and trails under the jurisdiction of the DNR. Also indicated are forest roads and trails under the jurisdiction of the DNR that are proposed for abandonment. These roads were determined to be in excess of the access needs in the area, are a threat to the resources, or are a concern environmentally.

Survey Needs:**Recreational Facilities and Opportunities:**

Mitchell State Park and a portion of the Cadillac Pathway are located within this compartment. Any treatments within the state park boundary requires communication with the State Park Unit Supervisor. Methods used for treatment should take into consideration seasonal restrictions (reduce impacts to campers during camping season), as well as addressing any aesthetic concerns associated with resource management. Trail protection specifications should be considered if treatments impact the Cadillac Pathway. (T.N. 1/29/16).

Fire Protection:

Any fires in this area have the potential to have urban interface concerns. This area has fairly good access for equipment; however there are areas that equipment may be limited. Most areas would have a response time of approximately 30 minutes from the Manton Field Office.

Additional Compartment Information:**The following reports from the Inventory are attached:**

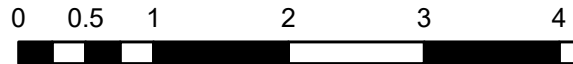
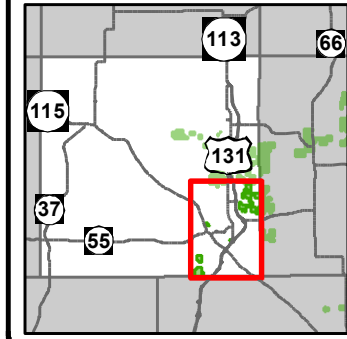
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

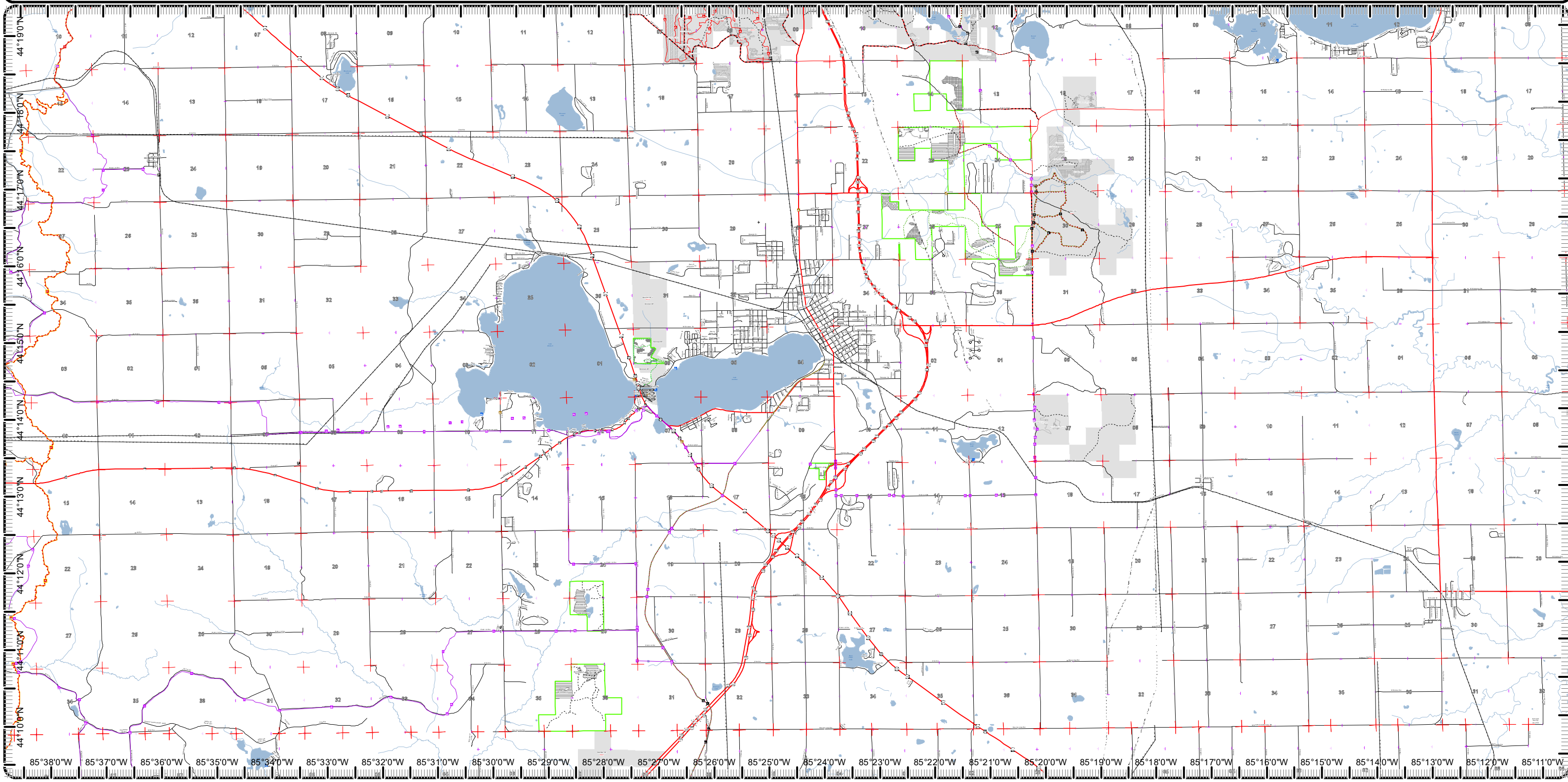
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 142
 T22N, R09W, Sec. 14, 23-27, 36
 T21N, R09W, Sec. 06, 16
 T21N, R10W, Sec. 24, 25, 35, 36
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 Unit: Cadillac
 Mgmt Area: Upper Muskegon
 YOE: 2018
 Acres: 2415 GIS Calculated
 Examiner: Blair Tweedale
 Map Revised: 7/8/2016
 Map Phase: Web - Post

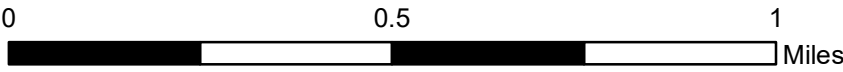
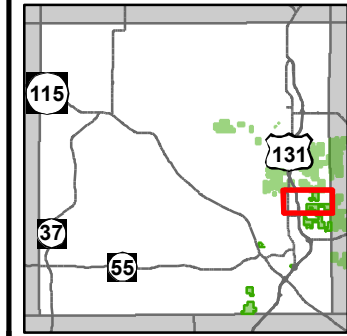


- Miris Corners
- Remonumented Section Corners
- Field Grade GPS Corners
- Airport
- Boating Access Site
- Campground
- Parking Lot
- Trailhead
- Bike Trails
- Hiking Trails
- Horse Trails
- Miles
- ORV Trails
- Snowmobile Trails
- Designated Hiking Trails
- Designated Bicycle Trails
- Designated Equestrian Trails
- Designated Ski Trails
- Designated ATV
- Designated Snowmobile Trails
- Designated Railtrail
- Highway
- Paved Roads
- County Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Railroads
- Rivers
- Pipeline
- Powerline
- Compartment Boundary
- Treatments with Site Conditions
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Water Level Management
- Other Treatment - See Comments
- Prescribed Burn
- Shelter Wood (w/Reserves)
- Seed Tree (w/Reserves)
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen
- 414 - Other Upland Deciduous
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 430 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 110 - Low Intensity Urban
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- Lakes

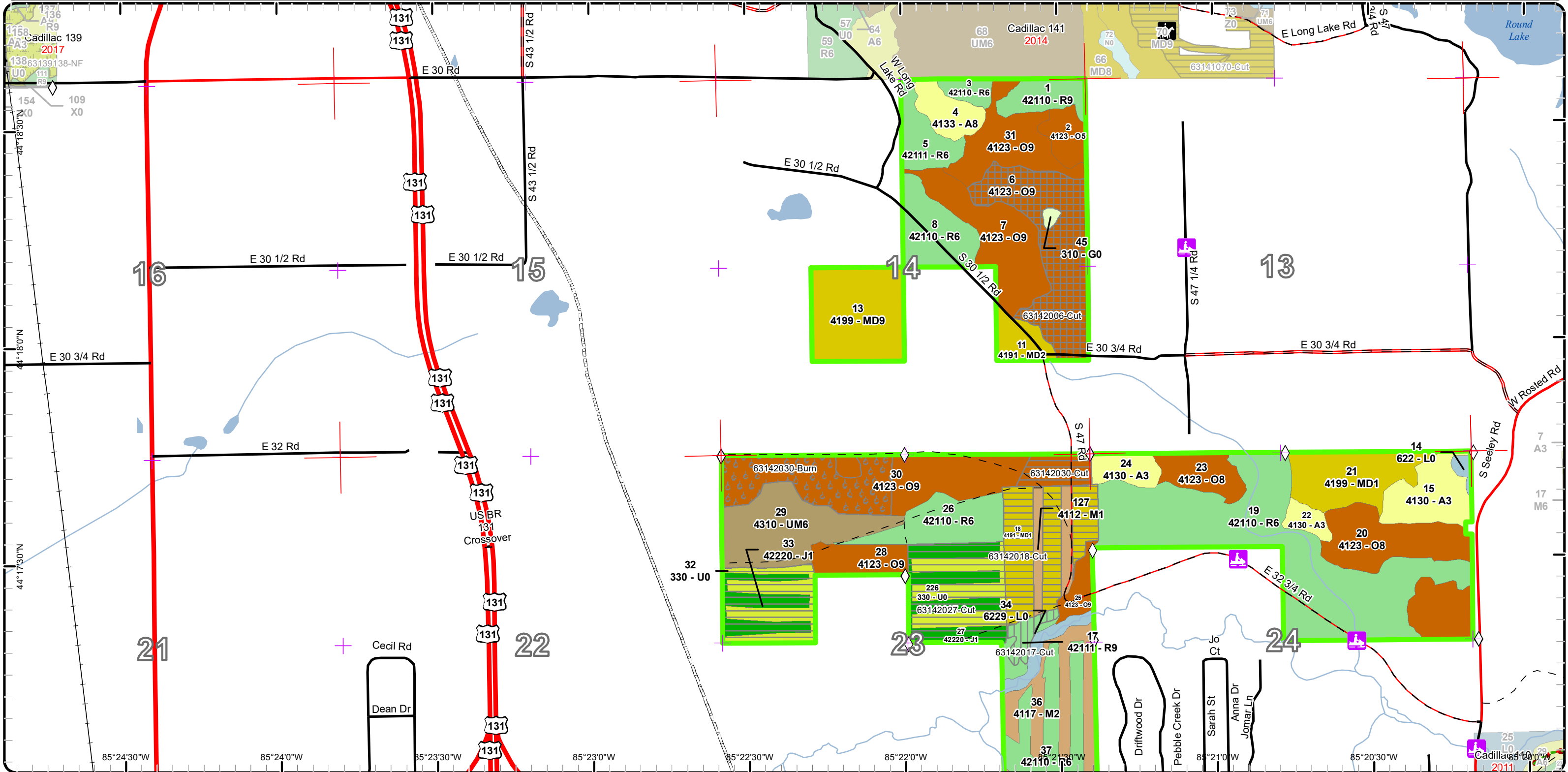


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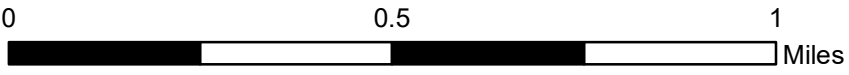
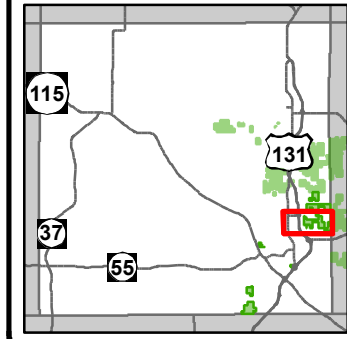


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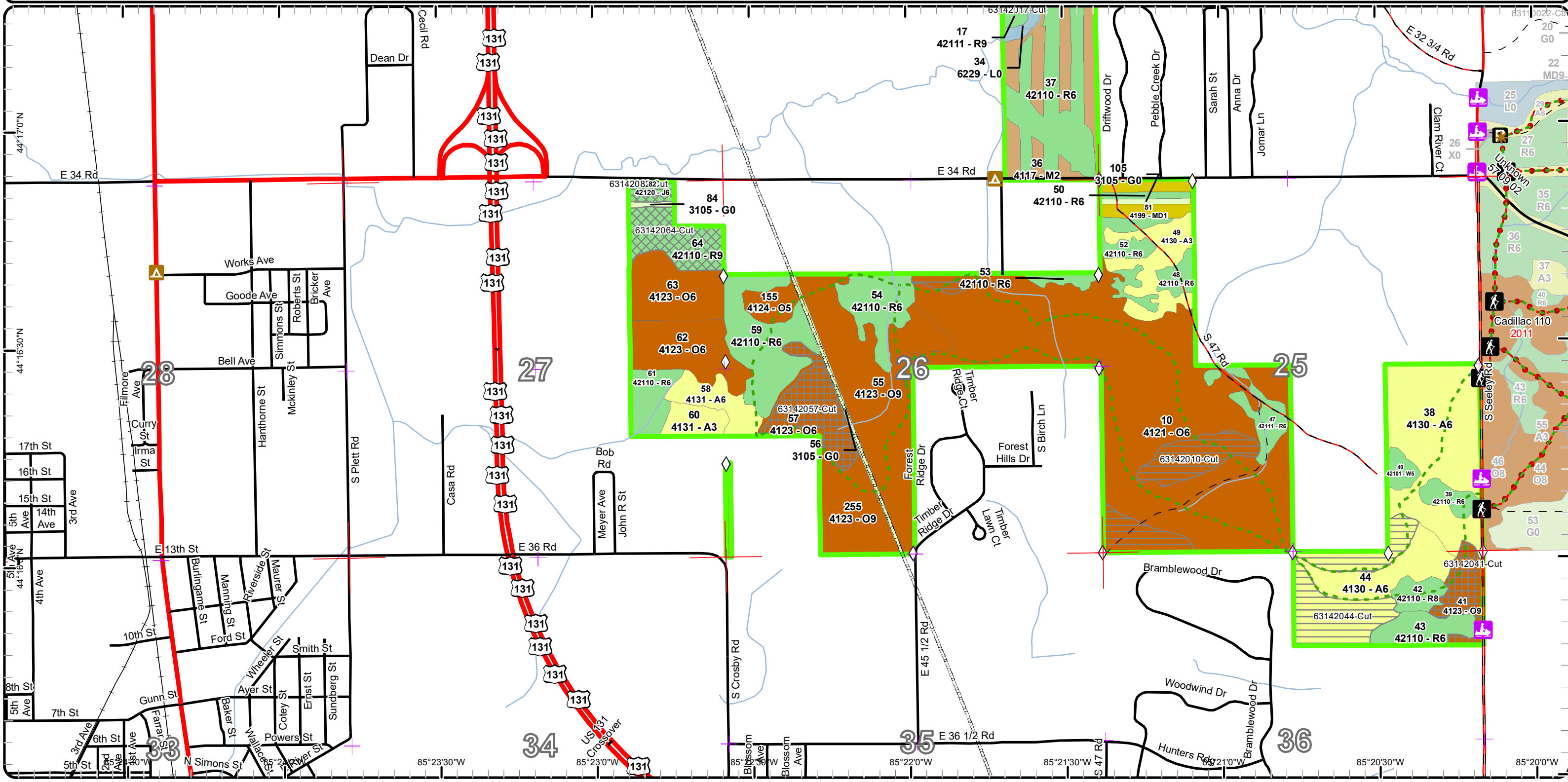


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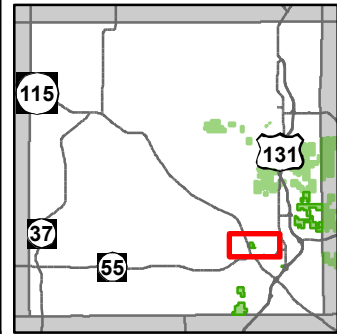
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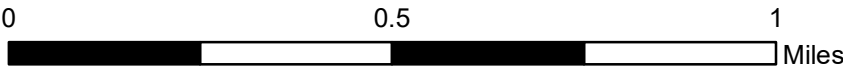
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- P Parking Lot
- ★ Trailhead
- Hiking Trails
- Snowmobile Trails
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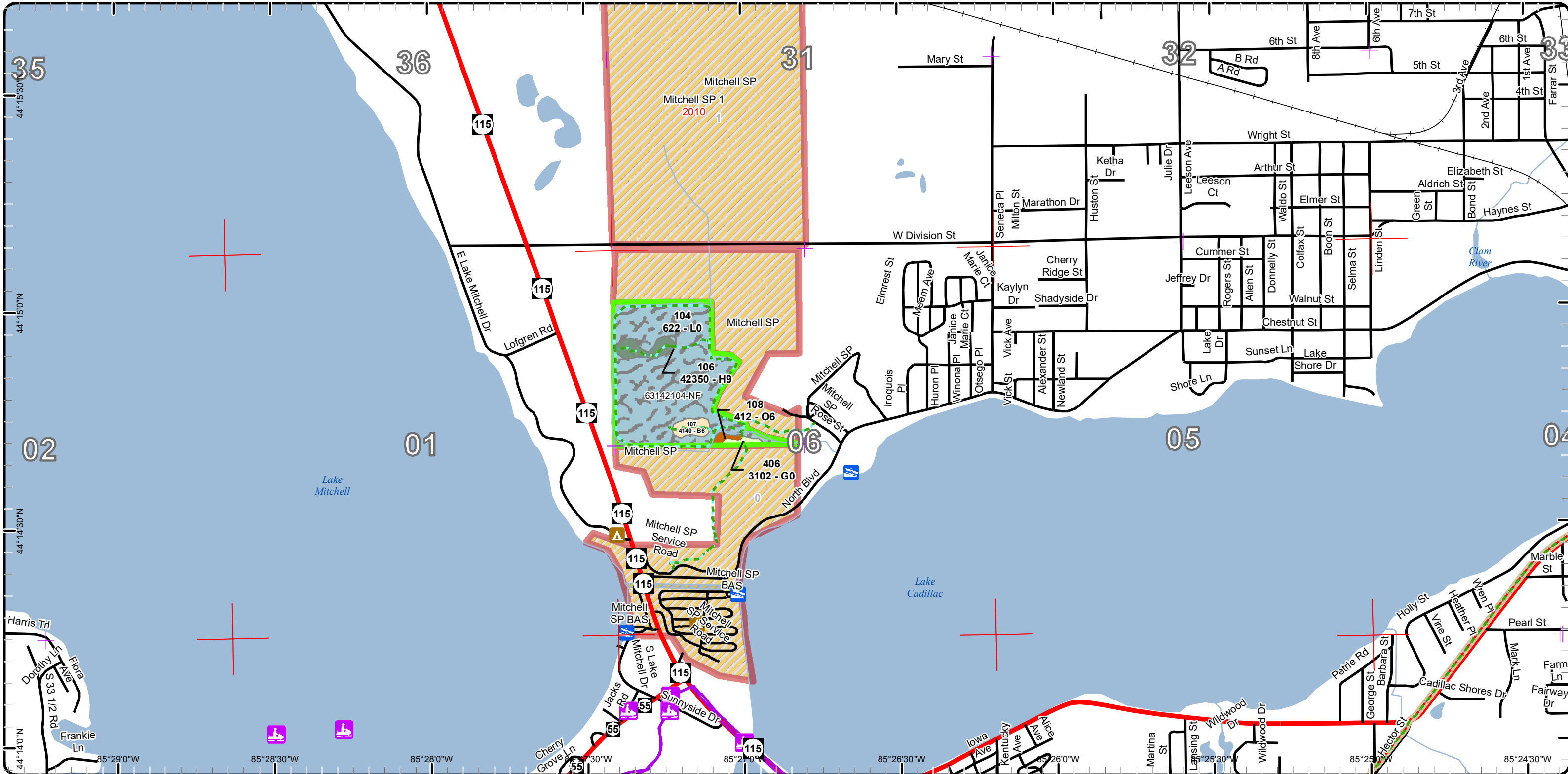
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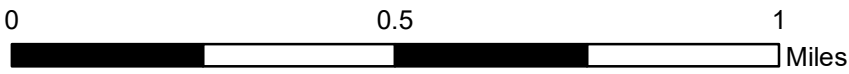
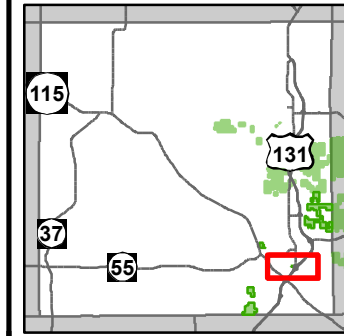


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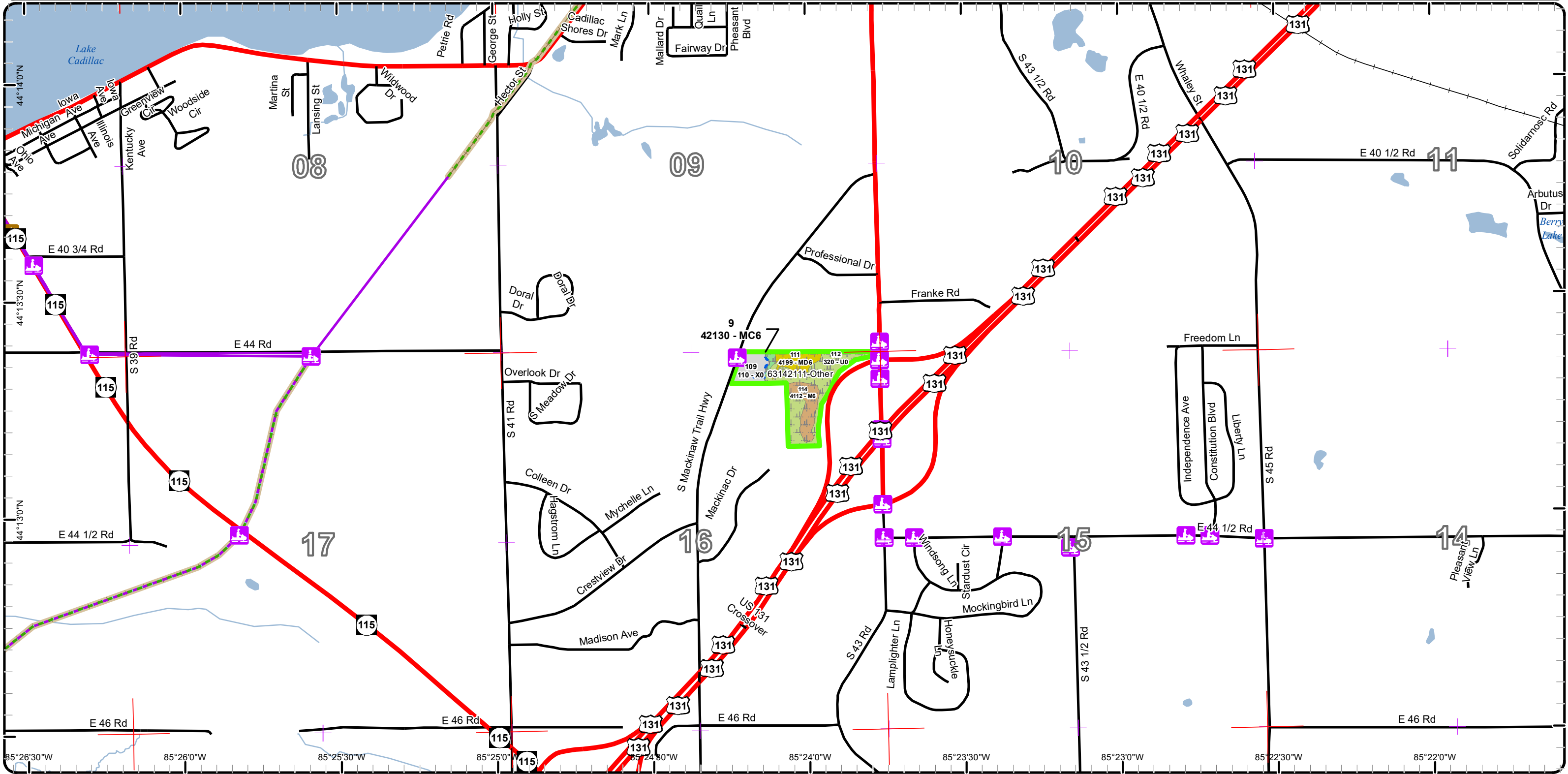


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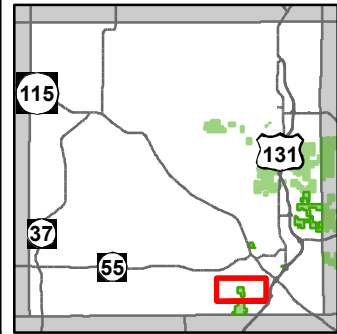
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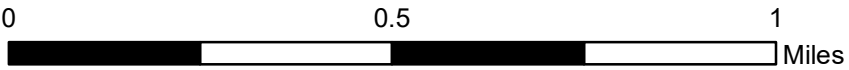
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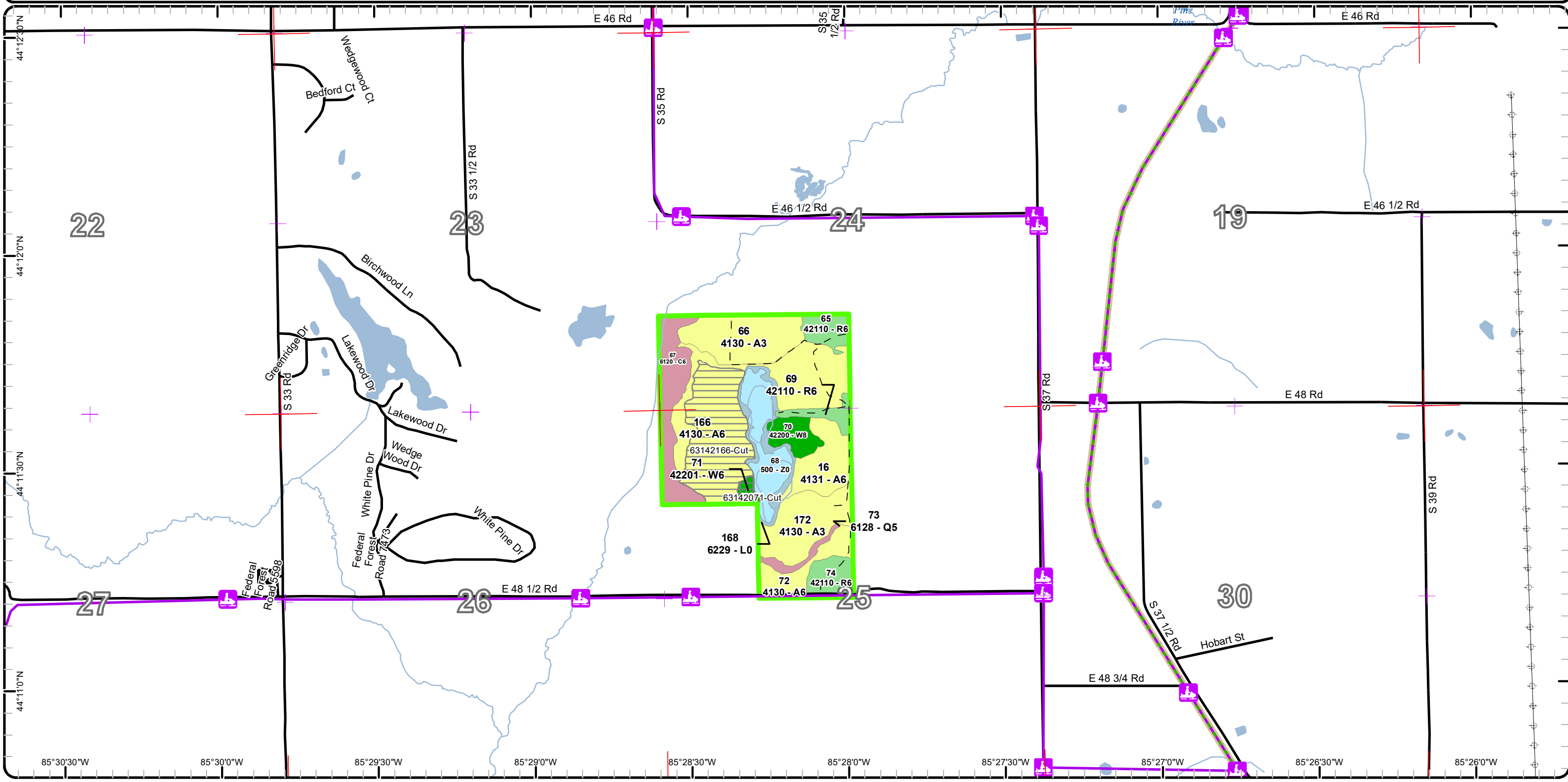
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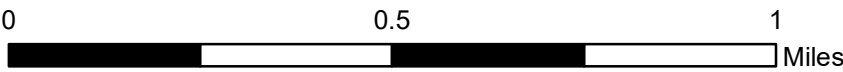
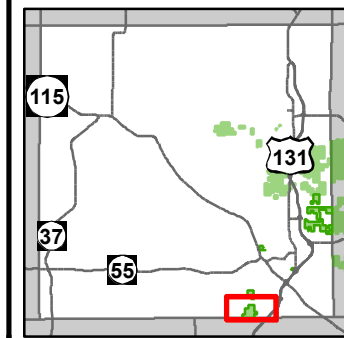


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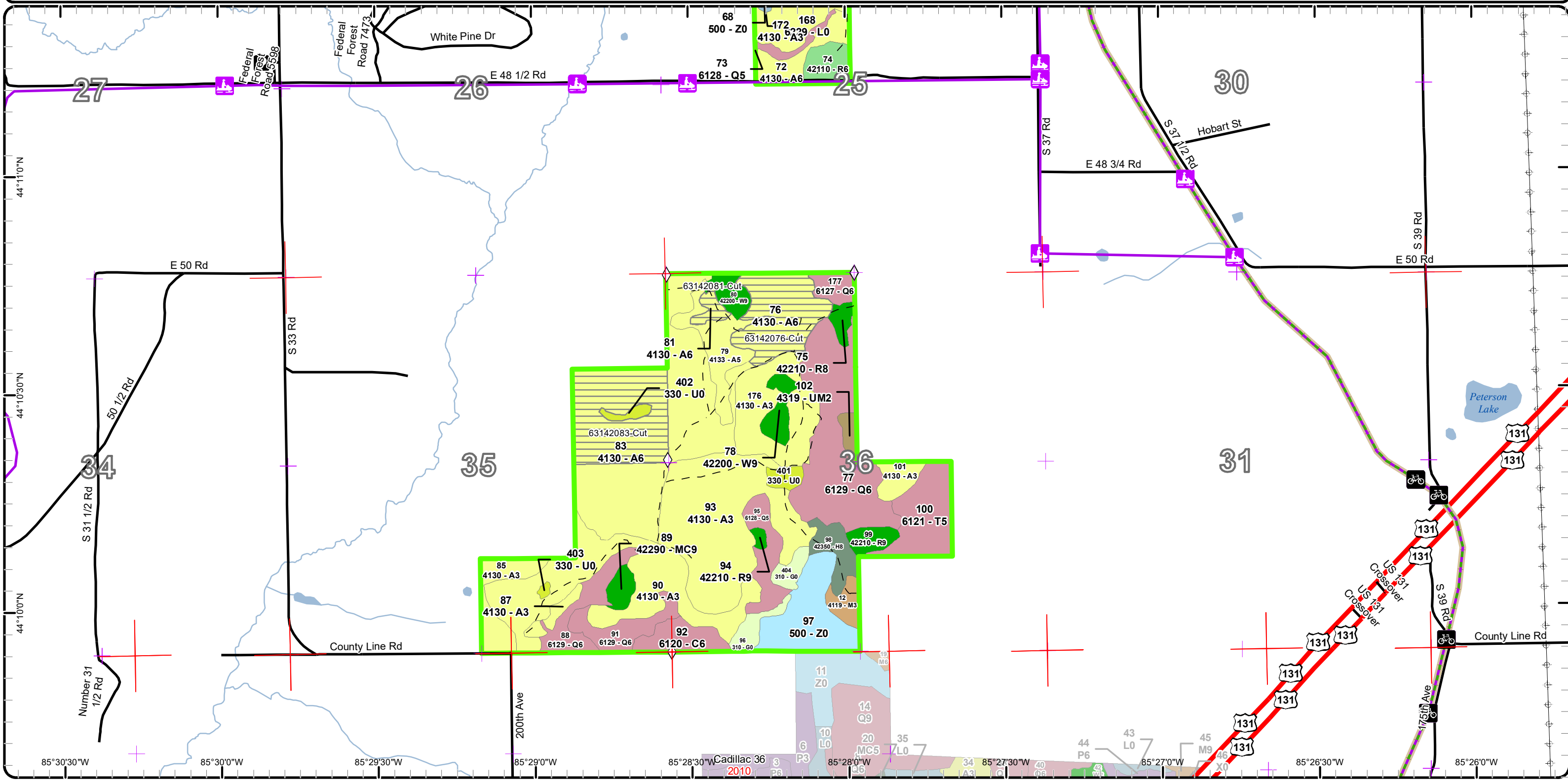


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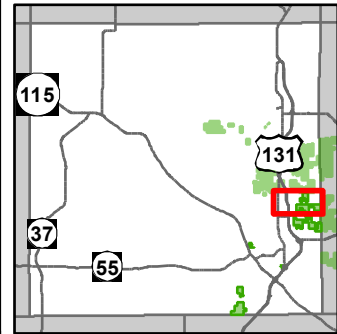
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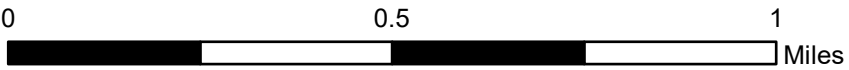
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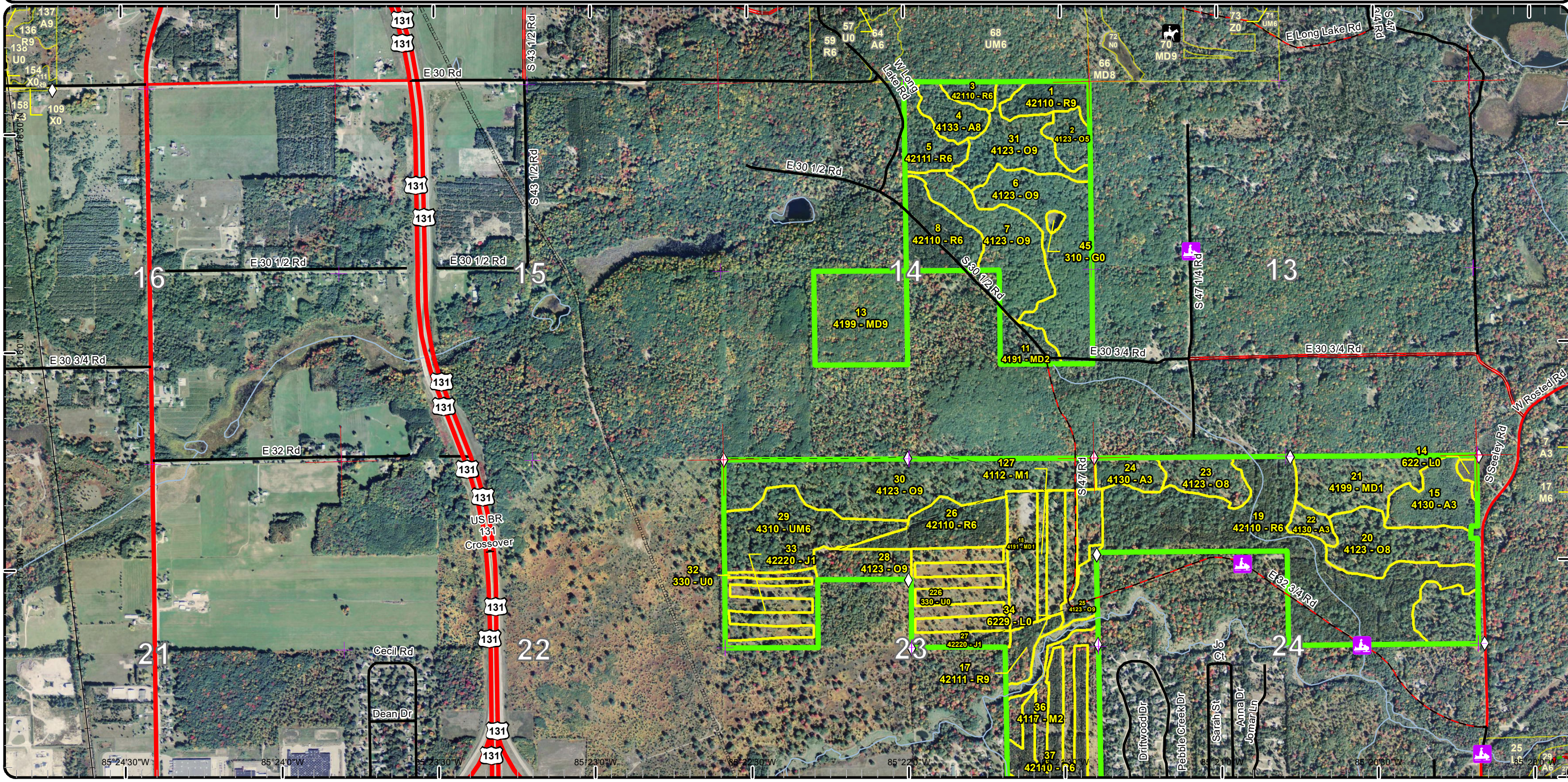
Stand Boundary Map



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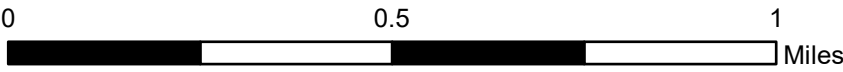
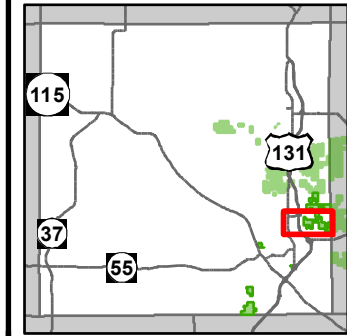
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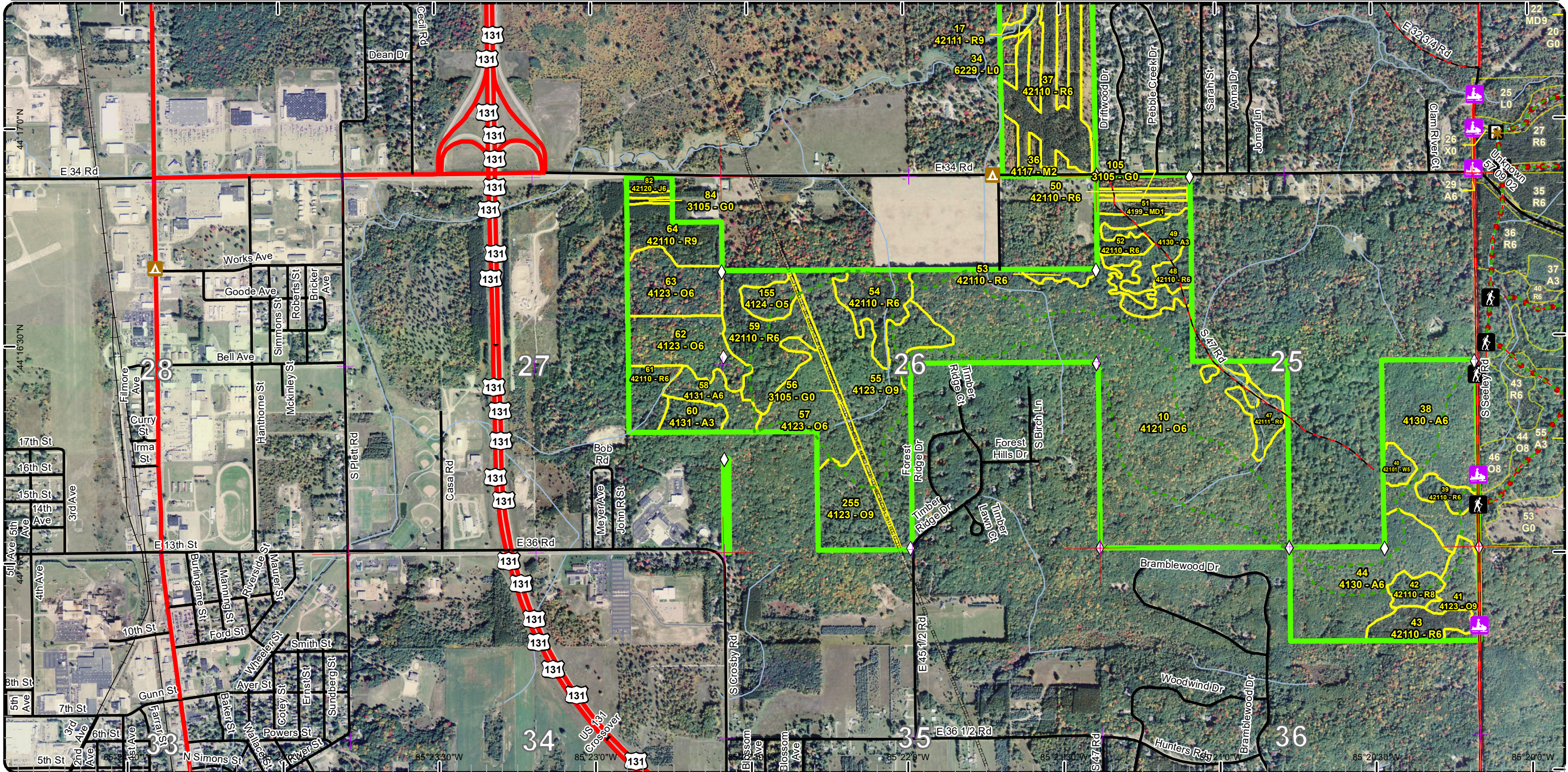
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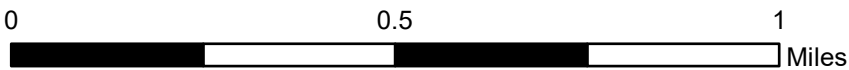
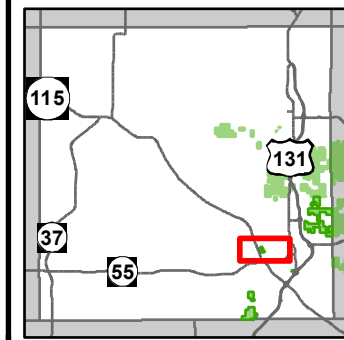


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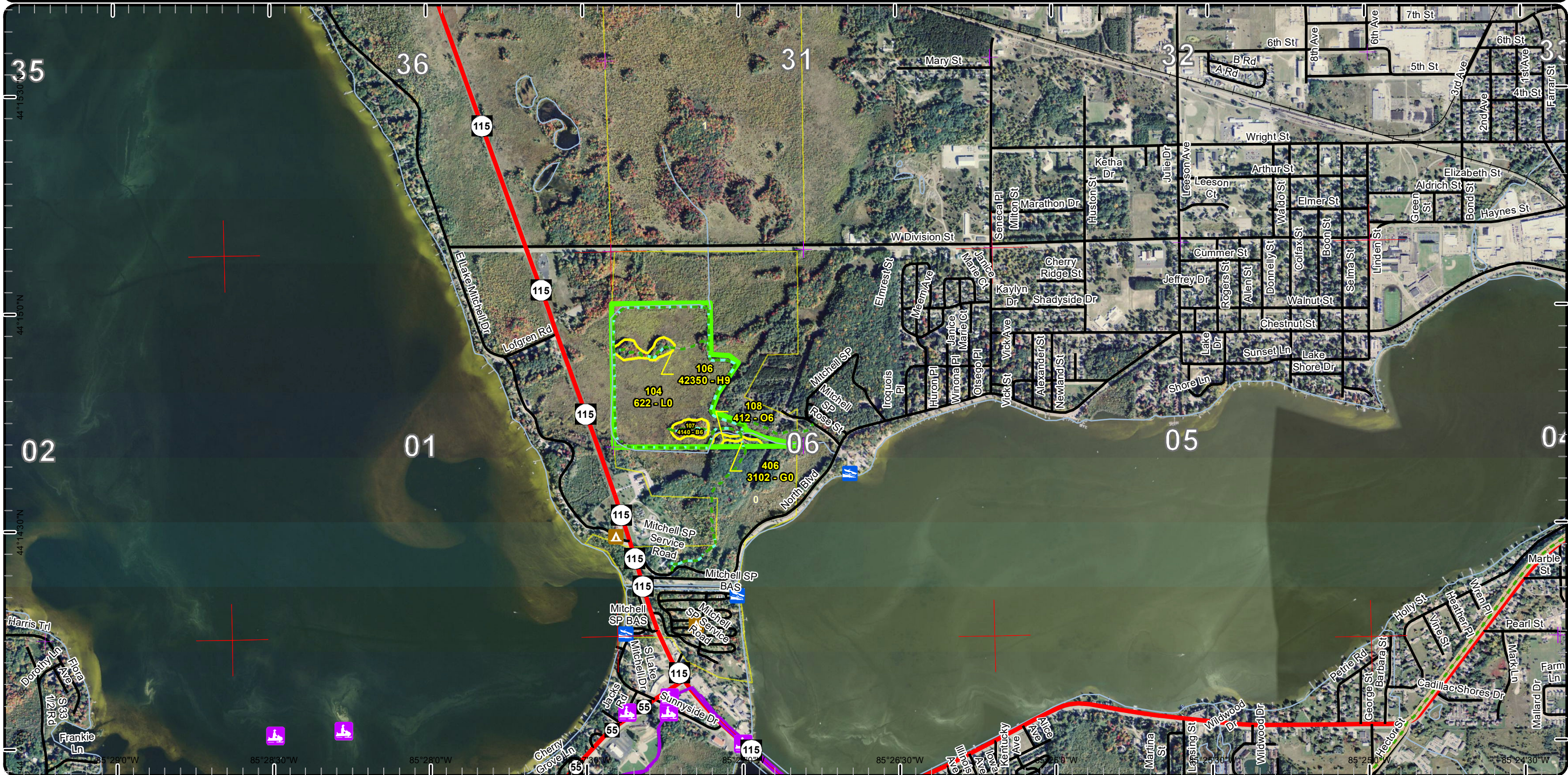


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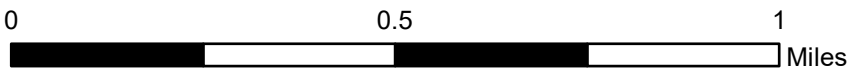
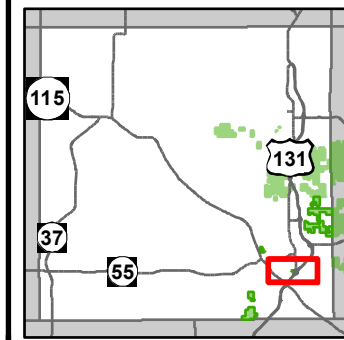


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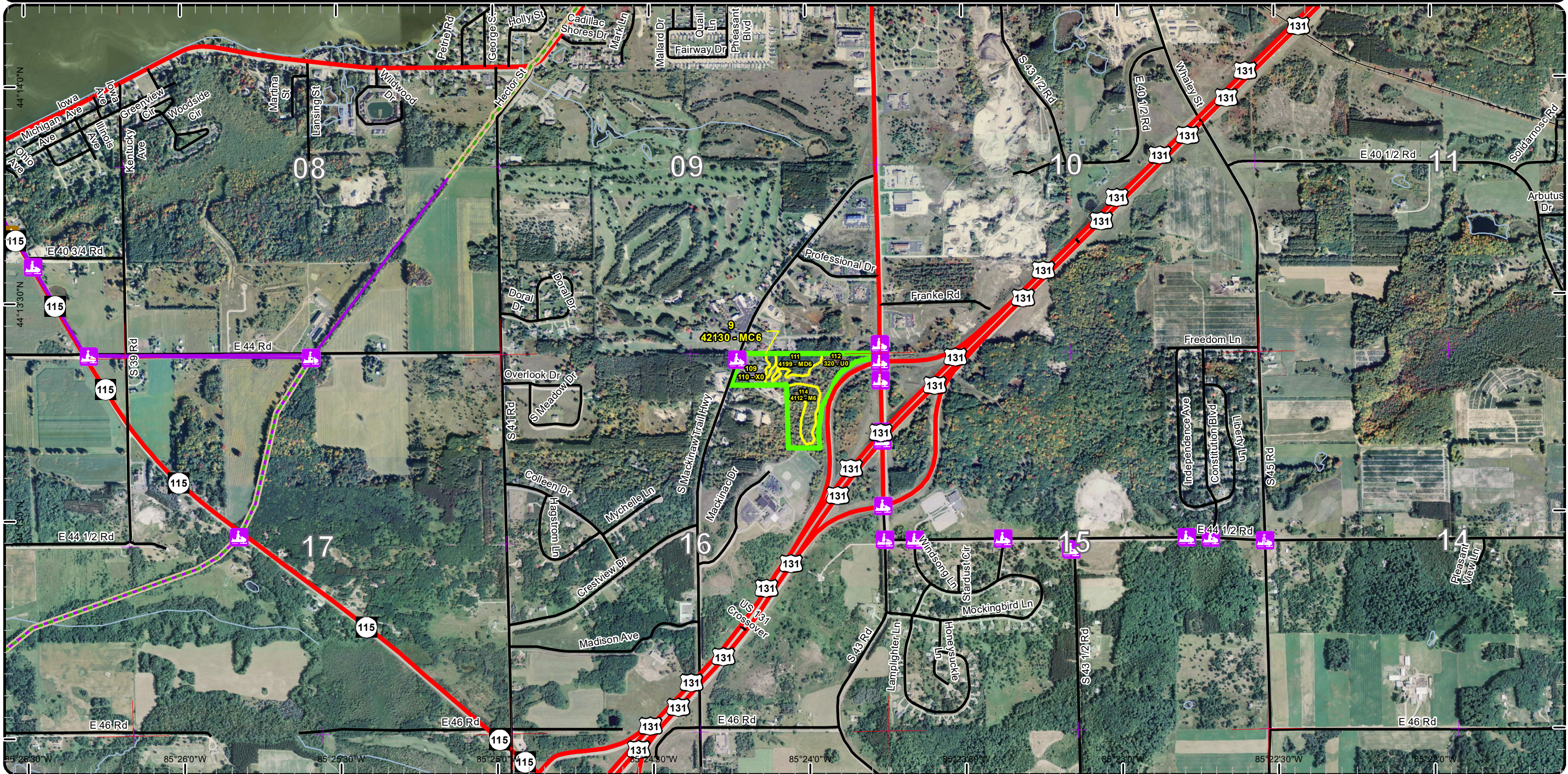


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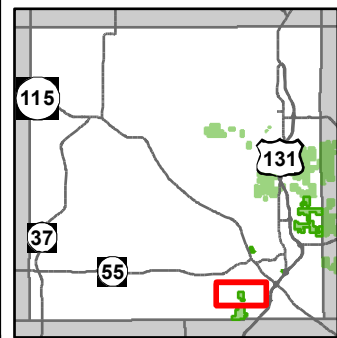
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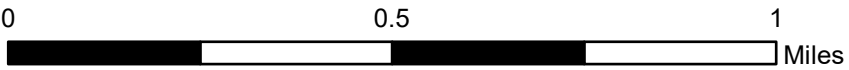
- Miris Corners
 - + Remonumented Section Corners
 - Campground
 - Snowmobile Trails
 - - - Designated Hiking Trails
 - - - Designated Bicycle Trails
 - - - Designated Ski Trails
 - Designated Snowmobile Trails
 - Designated Railtrail
 - Highway
 - Paved Roads
 - Railroads
 - Rivers
 - Compartment Boundary
- Stand Boundaries
 - 411 - Northern Hardwood
 - 419 - Mixed Upland Deciduous
 - 421 - Planted Pines
 - 110 - Low Intensity Urban
 - 320 - Upland Shrub



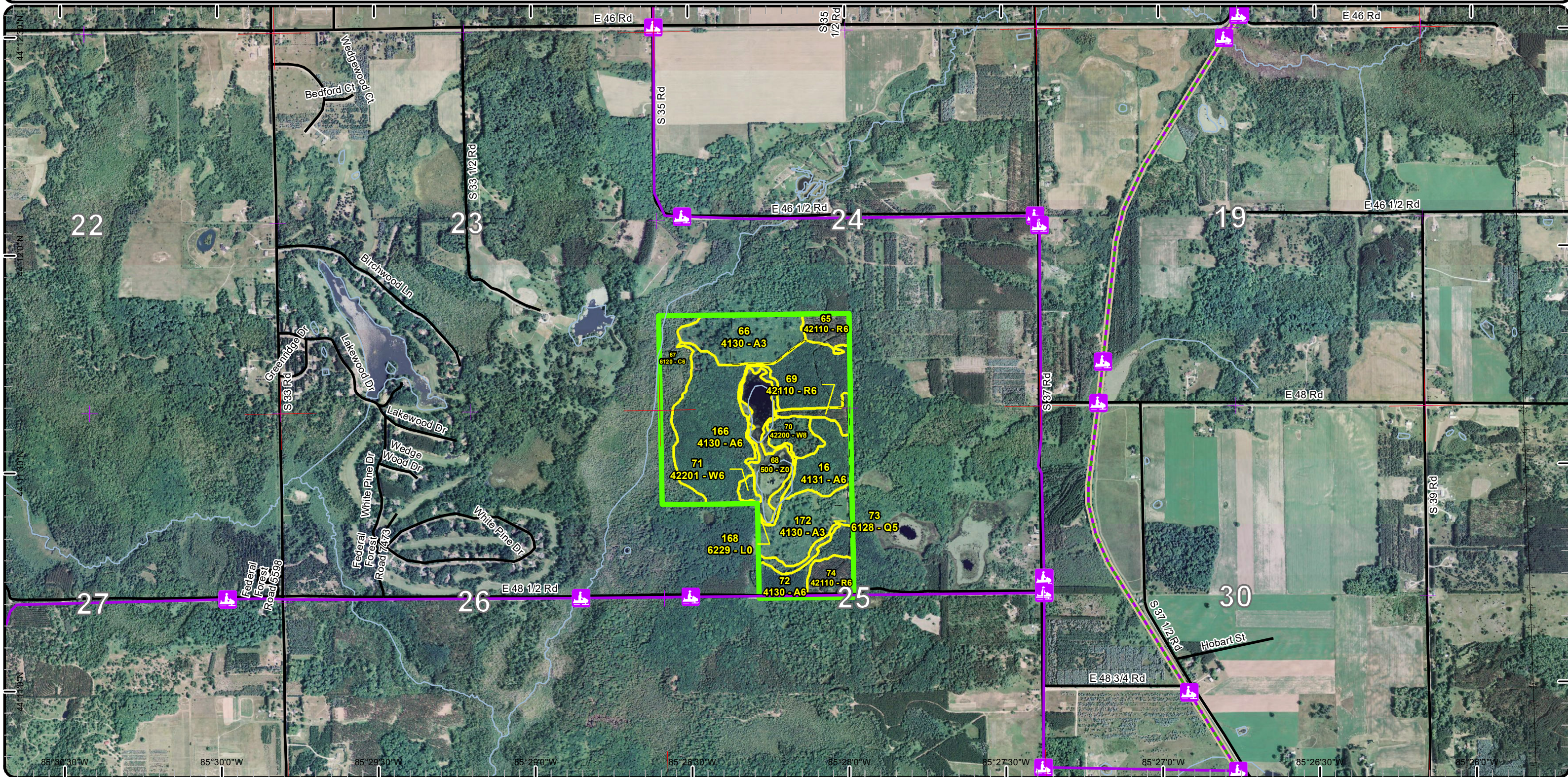
Stand Boundary Map



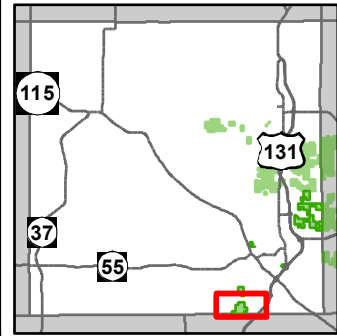
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 T22N, R09W, Sec. 14, 23-27, 36
 T21N, R09W, Sec. 06, 16
 T21N, R10W, Sec. 24, 25, 35, 36
 County: Wexford
 Unit: Cadillac
 Mgmt Area: Upper Muskegon
 YOE: 2018
 Acres: 2415 GIS Calculated
 Examiner: Blair Tweedale
 Map Revised: 7/8/2016
 Map Phase: Web - Post 0



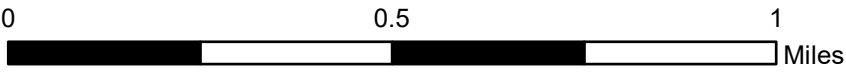
- Miris Corners
 - + Remonumented Section Corners
 - P** Parking Lot
 - Snowmobile Trails
 - - - Designated Hiking Trails
 - - - Designated Bicycle Trails
 - - - Designated Ski Trails
 - - - Designated Snowmobile Trails
 - - - Designated Railtrail
 - Paved Roads
 - - - Poor Dirt Roads
 - Rivers
 - Powerline
 - Compartment Boundary
- Stand Boundaries
 - 413 - Aspen
 - 421 - Planted Pines
 - 422 - Natural Pines
 - 612 - Lowland Coniferous Forest
 - 500 - Water
 - 622 - Lowland Shrub



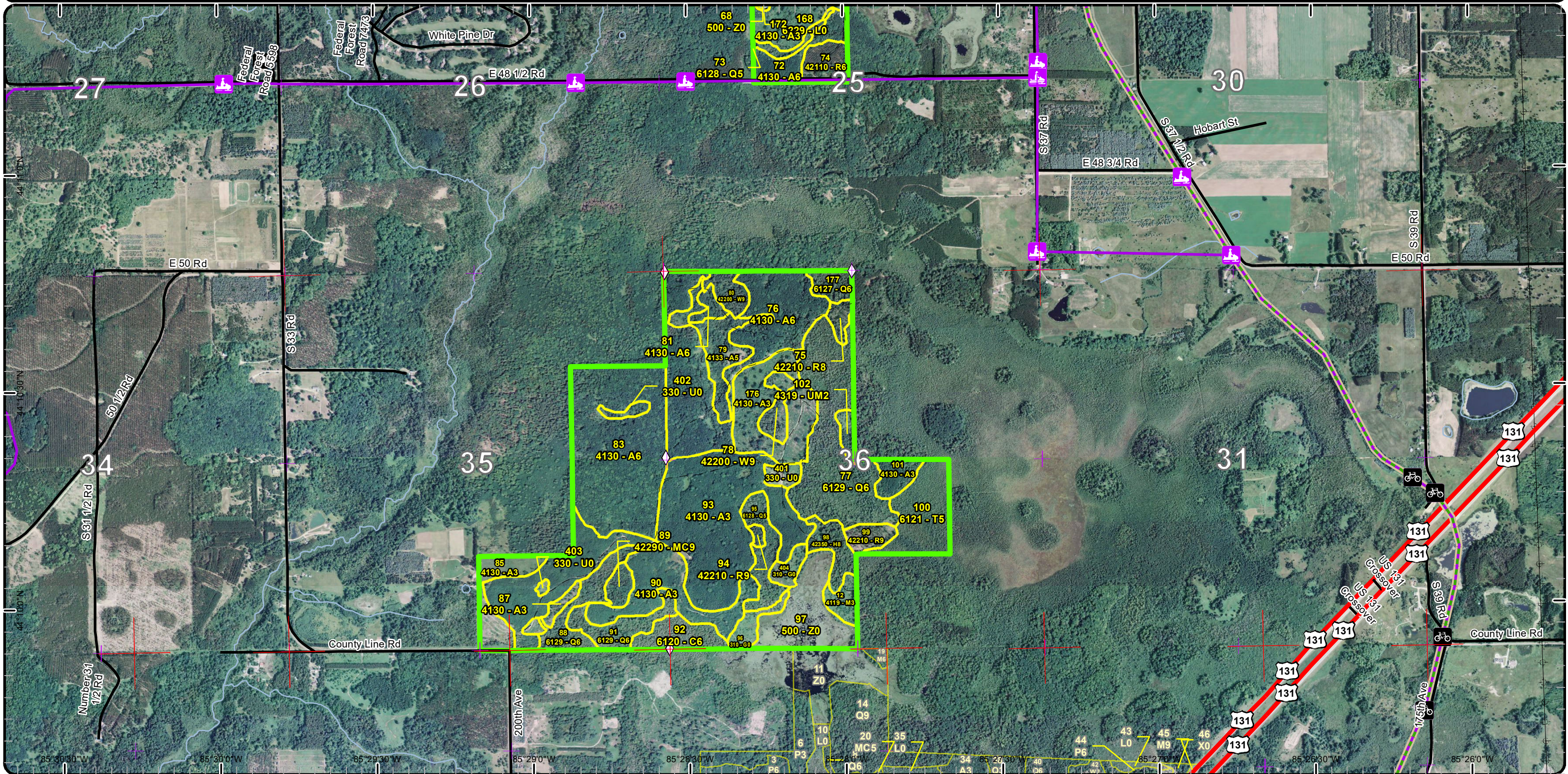
Stand Boundary Map



Compartment: 142
 T22N, R09W, Sec. 14, 23-27, 36
 T21N, R09W, Sec. 06, 16
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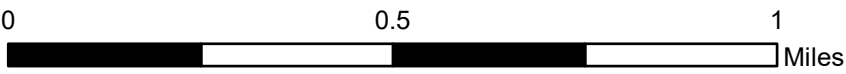
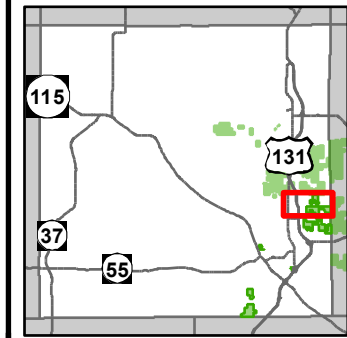


- Miris Corners
- + Remonumented Section Corners
- ◇ Field Grade GPS Corners
- P Parking Lot
- 🚲 Bike Trails
- 🚲 Snowmobile Trails
- Designated Hiking Trails
- Designated Bicycle Trails
- Designated Ski Trails
- Designated Snowmobile Trails
- Designated Railtrail
- Highway
- Paved Roads
- Poor Dirt Roads
- Rivers
- + Powerline
- Compartment Boundary
- Stand Boundaries
- 411 - Northern Hardwood
- 413 - Aspen
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 430 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 500 - Water

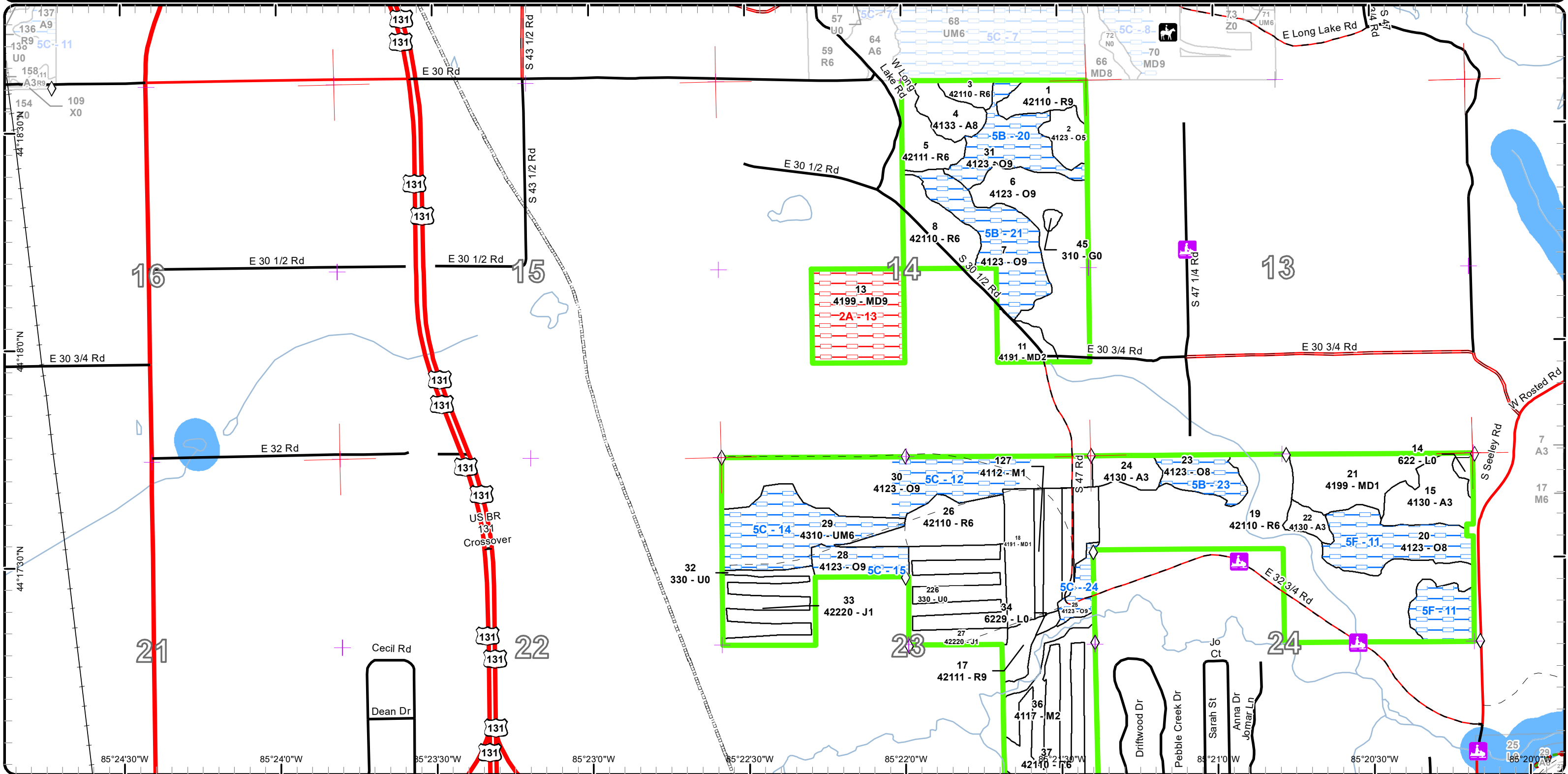


Special Conservation Areas & Site Conditions Map

Compartment: 142
 T22N, R09W, Sec. 14, 23-27, 36
 T21N, R09W, Sec. 06, 16
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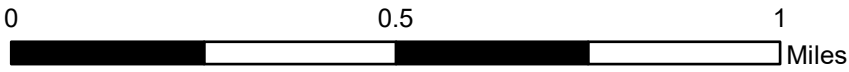
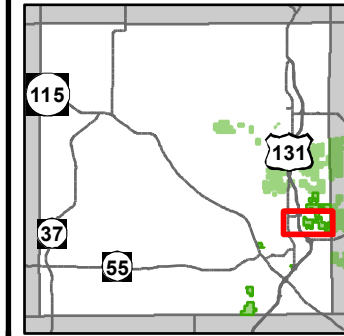


- Miris Corners
- + Remonumented Section Corners
- Field Grade GPS Corners
- Horse Trails
- Snowmobile Trails
- Highway
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Railroads
- Rivers
- Pipeline
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2A: Adjacent landowner denied access
- Stand Boundaries
- Cold Water Streams
- High Priority Trout Stream Buffer

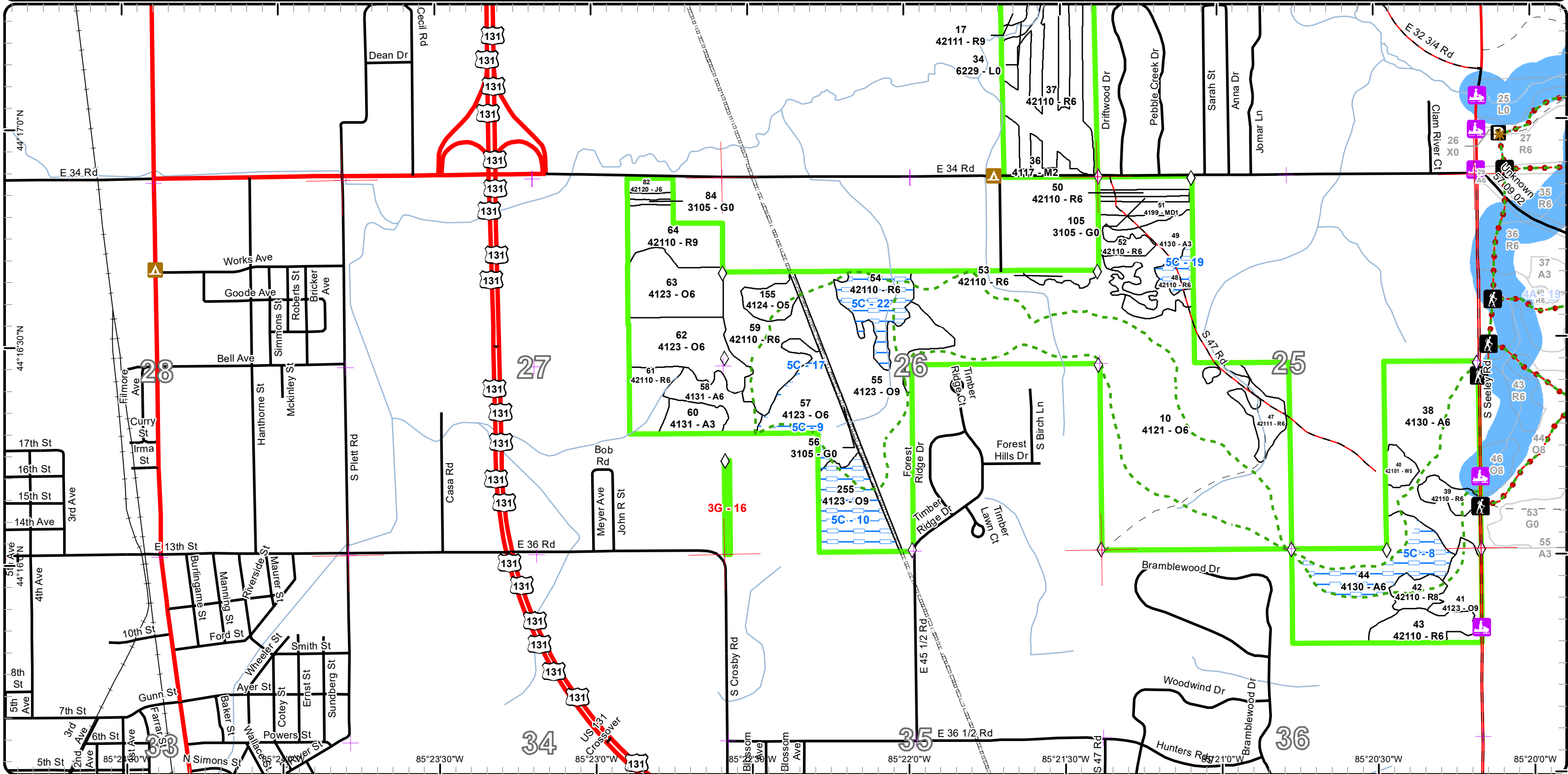


Special Conservation Areas & Site Conditions Map

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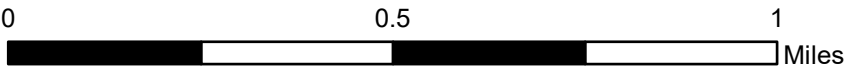
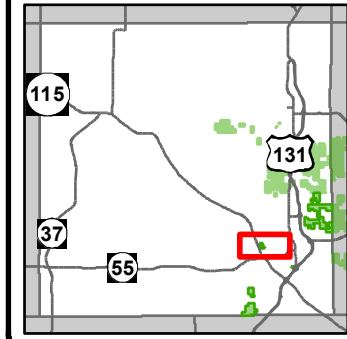


- Miris Corners
- + Remonumented Section Corners
- ◇ Field Grade GPS Corners
- ▲ Campground
- P Parking Lot
- ★ Trailhead
- ⚡ Hiking Trails
- ⚡ Snowmobile Trails
- Designated Hiking Trails
- - - Designated Bicycle Trails
- Designated Equestrian Trails
- - - Designated Ski Trails
- Highway
- County Paved Roads
- Paved Roads
- County Gravel Roads
- - - Poor Dirt Roads
- County Poor Dirt Roads
- Railroads
- Rivers
- Pipeline
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Stand Boundaries
- Cold Water Streams
- High Priority Trout Stream Buffer
- 3G: Other Influence zones - See comments

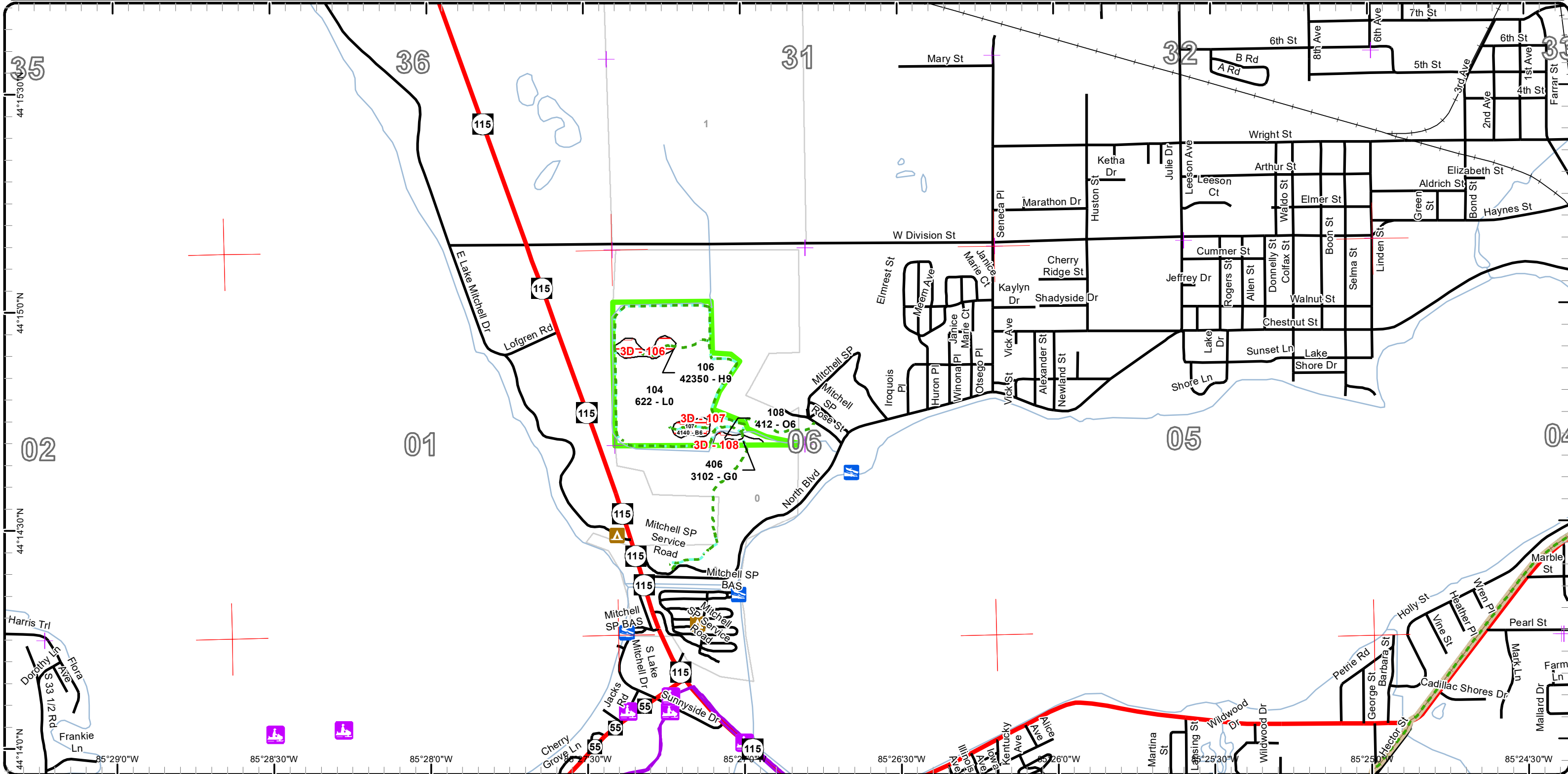


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 T21N, R10W, Sec. 24, 25, 35, 36
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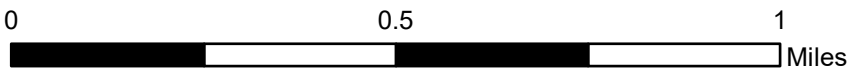
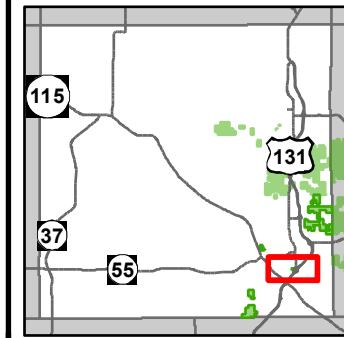


- Miris Corners
- + Remonumented Section Corners
- Boating Access Site
- ▲ Campground
- Snowmobile Trails
- - - Designated Hiking Trails
- - - Designated Bicycle Trails
- - - Designated Ski Trails
- - - Designated Snowmobile Trails
- Designated Railtrail
- Highway
- Paved Roads
- Railroads
- Rivers
- Compartment Boundary
- Unavailable
- 3D: Recreational / Scenic values
- Stand Boundaries
- Rail-Trail Corridor

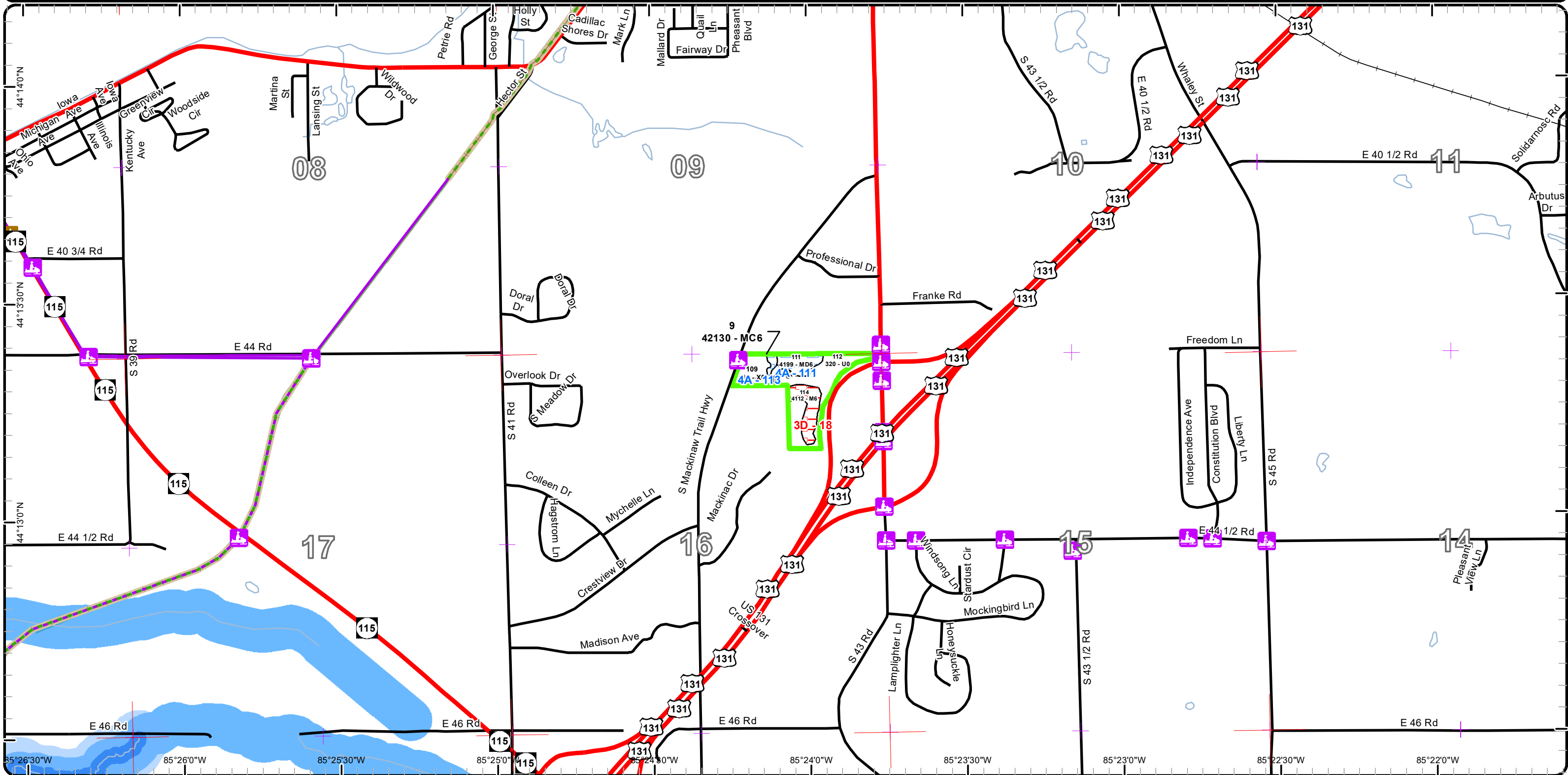


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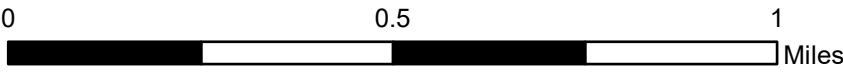
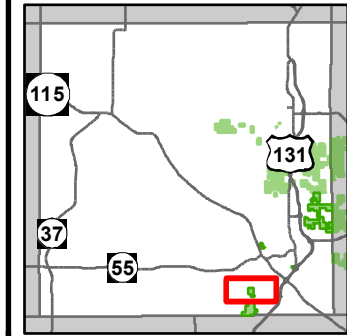


- Miris Corners
- + Remonumented Section Corners
- Campground
- Snowmobile Trails
- - - Designated Hiking Trails
- - - Designated Bicycle Trails
- - - Designated Ski Trails
- - - Designated Snowmobile Trails
- Designated Railtrail
- Highway
- Paved Roads
- + Railroads
- Rivers
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 4A: No Markets Available for these Forest Products
- 3D: Recreational / Scenic values
- Stand Boundaries
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- High Priority Trout Stream Buffer
- Rail-Trail Corridor

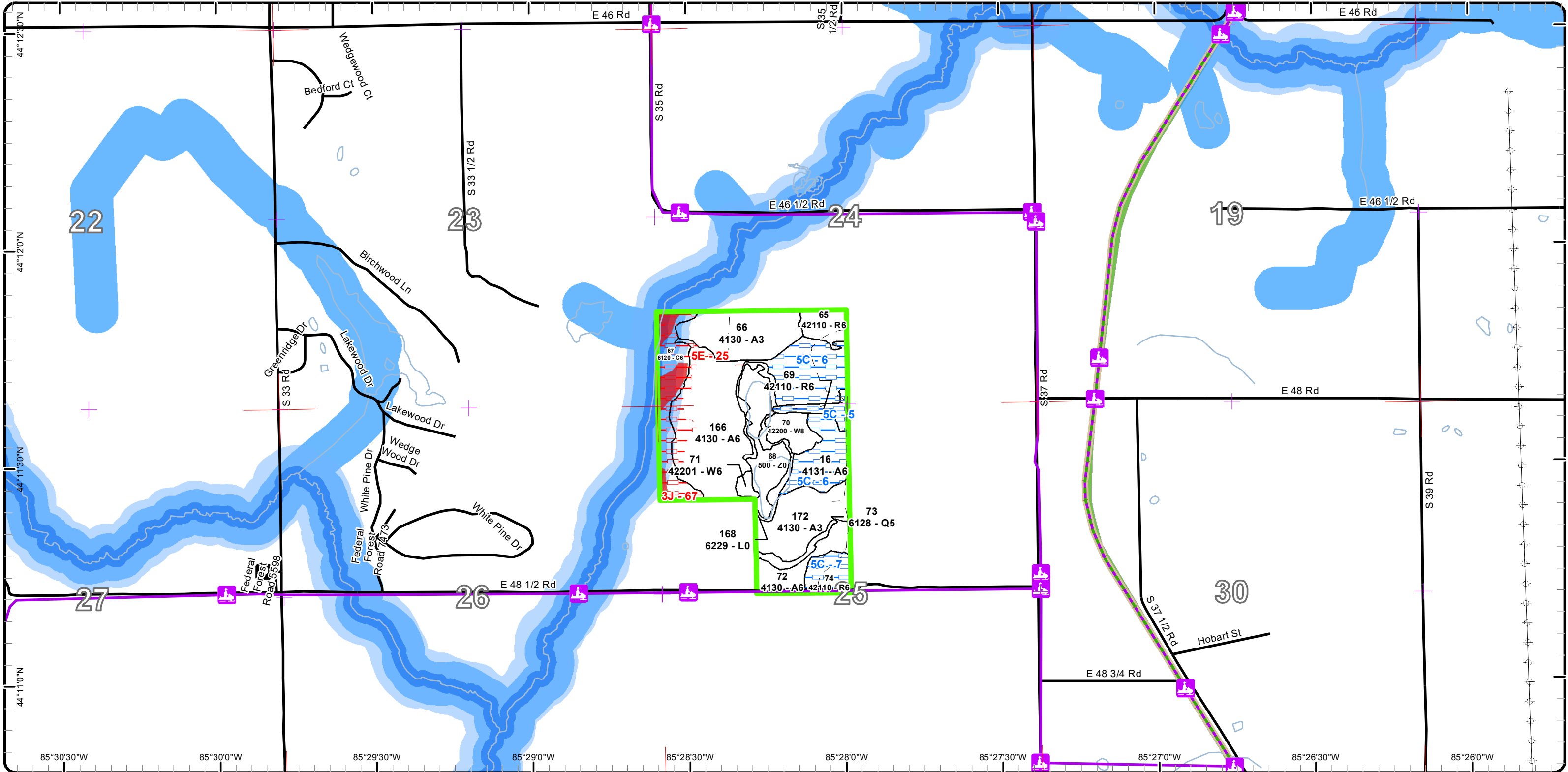


Special Conservation Areas & Site Conditions Map

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 T21N, R09W, Sec. 06, 16
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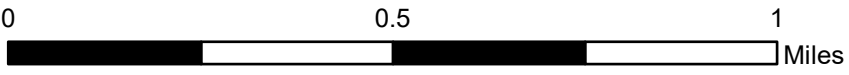
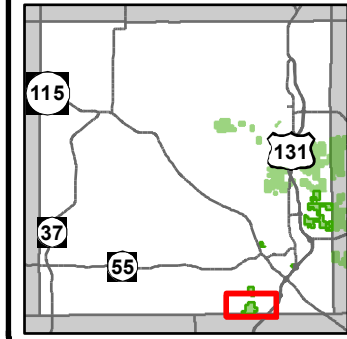


- Miris Corners
- + Remonumented Section Corners
- P** Parking Lot
- Snowmobile Trails
- - - Designated Hiking Trails
- - - Designated Bicycle Trails
- - - Designated Ski Trails
- - - Designated Snowmobile Trails
- - - Designated Railtrail
- Paved Roads
- - - Poor Dirt Roads
- Rivers
- Powerline
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- Ecological Reference Areas
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Cold Water Streams
- High Priority Trout Stream Buffer
- Rail-Trail Corridor

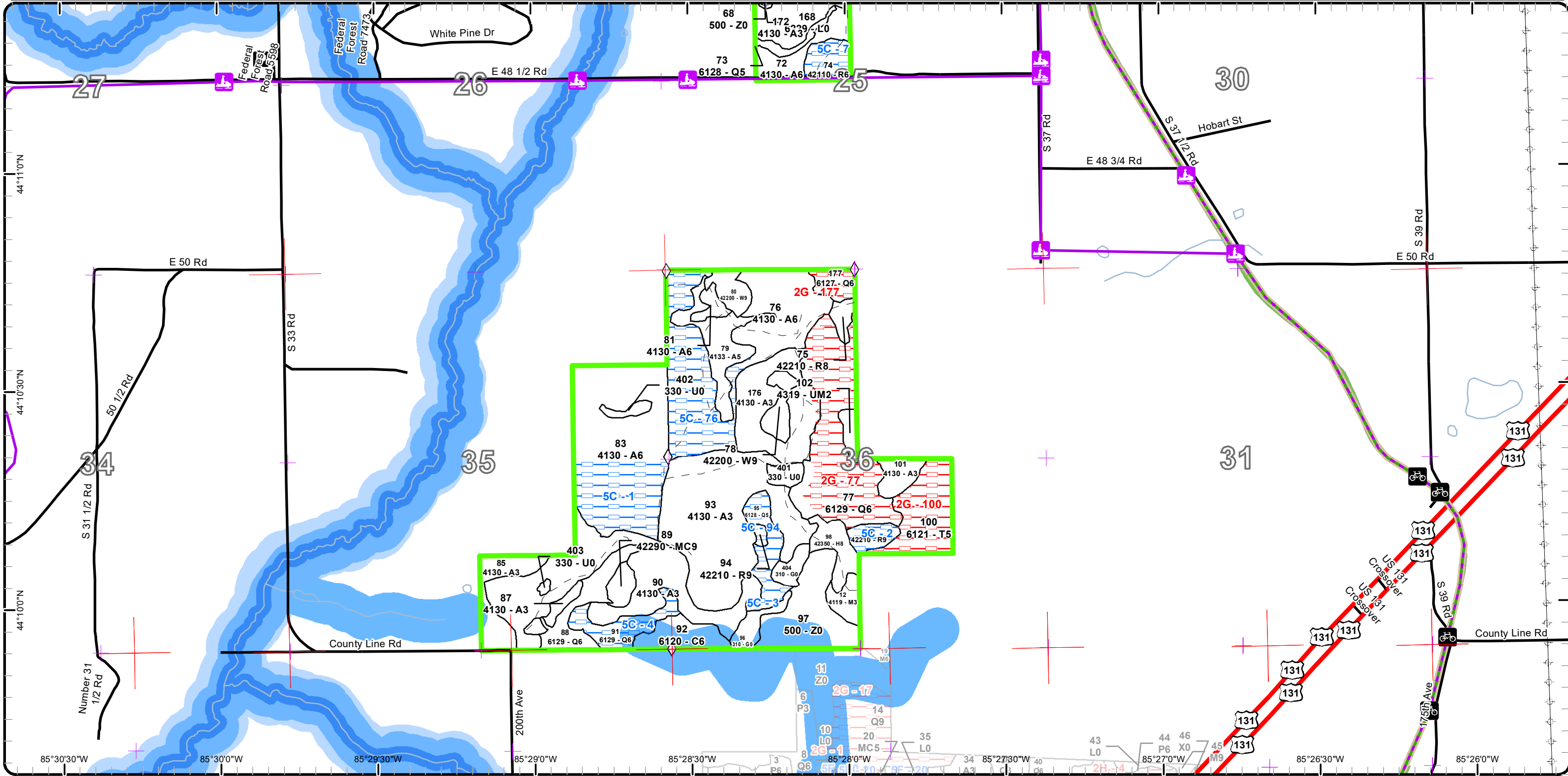


Special Conservation Areas & Site Conditions Map

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 T21N, R09W, Sec. 06, 16
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- Miris Corners
- Remonumented Section Corners
- Field Grade GPS Corners
- Parking Lot
- Bike Trails
- Snowmobile Trails
- Designated Hiking Trails
- Designated Bicycle Trails
- Designated Ski Trails
- Designated Snowmobile Trails
- Designated Railtrail
- Highway
- Paved Roads
- Poor Dirt Roads
- Rivers
- Powerline
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2G: Too wet (sensitive soils, does not include access issues)
- Stand Boundaries
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Cold Water Streams
- High Priority Trout Stream Buffer
- Rail-Trail Corridor



Report 1 – Total Acres by Cover Type and Age Class

Cadillac Mgt. Unit

Compartment 142 Year of Entry 2018

Blair Tweedale : Examiner



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	91	92	108	0	100	259	0	0	0	0	0	0	0	0	0	0	0	650
Cedar	0	0	0	0	0	0	0	0	0	0	0	29	0	0	0	0	0	0	29
Hemlock	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	12
Herbaceous Openland	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
Jack Pine	0	38	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	41
Low-Density Trees	43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	43
Lowland Conifers	0	0	0	0	0	0	0	0	0	23	0	55	0	0	0	0	0	16	94
Lowland Shrub	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	80
Mixed Upland Deciduous	0	84	0	0	0	0	0	0	0	39	0	0	0	0	0	0	0	4	127
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4
Northern Hardwood	0	35	16	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	56
Oak	0	0	0	0	0	0	0	51	0	61	13	190	64	0	1	0	0	327	706
Paper Birch	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	3
Planted Mixed Pines	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
Red Pine	0	0	0	0	0	0	117	271	0	3	6	0	0	0	0	0	0	7	404
Tamarack	0	0	0	0	0	0	0	0	0	21	0	0	0	0	0	0	0	0	21
Upland Mixed Forest	0	0	0	3	0	0	0	0	0	0	0	39	0	0	0	0	0	0	42
Upland Shrub	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
Urban	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Water	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40
White Pine	0	0	0	0	0	0	0	13	2	0	0	0	0	0	0	0	0	11	25
Total	200	248	108	111	0	100	379	341	5	159	19	284	93	0	1	0	0	369	2415



Report 2 – Treatment Summary

Cadillac Mgt. Unit

Year of Entry: 2018

Acres of Harvest

Compartment 142
Total Compartment Acres: 2,415

Commercial Harvest - 402
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
Aspen	135	0	0	0	0	0	0	0	0	135
Jack Pine	78	0	0	0	0	0	0	0	0	78
Mixed Upland Deciduous	35	0	0	0	0	0	0	0	0	35
Oak	42	0	0	85	0	0	0	0	0	127
Red Pine	0	21	0	0	5	0	0	0	0	26
White Pine	0	0	0	2	0	0	0	0	0	2
Total	289	21	0	87	5	0	0	0	0	402

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	402	0	0	0	34	0	0	22	65	523
Next Step	0	215	120	0	50	120	406	0	0	911
Total	402	215	120	0	84	120	406	22	65	1433



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
6	63142006-Cut	50.2	4123 - Red Oak	Sawtimber Well	111	111- 140	Harvest	Seed Tree	412 - Oak Types	Two-Aged	Proposal

Habitat Cut: No**Site Condition:**Prescription Thin stand to a residual 20-30 BA.Specs:Next Step Monitoring, Natural Regen (Intermediate); Burn, Understory; SitePrep, ScarificationTreatments:Acceptable oak and mapleRegen:Other Last thinning did not recruit oak regen. Maple stump sprouts found throughout. Open up canopy to encourage oak regeneration. Possibly follow with a
Comment: Rx burn.Proposed Start Date: 10/01/2017

10	63142010-Cut	32.0	4121 - Oak, Aspen	Poletimber Well	86	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**Prescription Final harvest. leave scattered seed tree oak. Protect recreation trail.Specs:Next Step Monitoring, Natural Regen (Re-Inventary)Treatments:Acceptable aspen, oak and mapleRegen:Other Cadillac pathway goes through treatment area. Oak wilt spec.Comment:Proposed Start Date: 10/01/2017

17	63142017-Cut	5.0	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Well	60	141- 170	Harvest	Shelterwood	4319 - Mixed Upland Forest	Two-Aged	Proposal
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Habitat Cut: No**Site Condition:**Prescription Thin red pine to open up canopy to allow regeneration to establish. Cut all jack pine. Remove oak only as needed.Specs:Next Step Monitoring, Natural Regen (Re-Inventary)Treatments:Acceptable maple, oak, pine and aspen.Regen:Other Stand is serving as retention for stand to the north, so converting stand to a mixed stand should avoid any need for final harvesting and replant.Comment:Proposed Start Date: 10/01/2017

18	63142018-Cut	35.2	4191 - Mixed Upland Deciduous with Conifer	Sapling Poor	5	Immatur re	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**Prescription Clear cut. 2 inch spec. Only leave retention in a pocket IF retention is left.Specs:Next Step SitePrep, Roller Chopping; SitePrep, Trenching; Pesticide, Aerial; Planting, Initial Plant; Monitoring, Artificial Regen(1yr)Treatments:Acceptable red pineRegen:OtherComment:Proposed Start Date: 10/01/2017



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
27	63142027-Cut	74.9	42220 - Natural Jack Pine	Sapling Poor	5	Immature	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	Proposal

Habitat Cut: No**Site Condition:**

Prescription Harvest all species 2" and greater. Leave no more than 1 oak per acre. Do not leave largest oak due to the age.

Specs:

Next Step SitePrep, Trenching; Pesticide, Aerial; Planting, Initial Plant

Treatments:

Acceptable red pine

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

30	63142030-Burn	34.1	4123 - Red Oak	Sawtimber Well	109	51-80	Burn	Understory	412 - Oak Types	Two-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription RX burn to set back red maple and stimulate oak regeneration.

Specs:

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable oak

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

30	63142030-Cut	9.7	4123 - Red Oak	Sawtimber Well	109	51-80	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Clear cut 2 inch spec. No retention preferred. If retention is left, leave a pocket of oak.

Specs:

Next Step SitePrep, Roller Chopping; Pesticide, Aerial; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr)

Treatments:

Acceptable red pine

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

41	63142041-Cut	13.4	4123 - Red Oak	Sawtimber Well	98	81-110	Harvest	Seed Tree with Retention	4121 - Oak, Aspen	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription harvest all aspen and maple. Thin oak to 20-40 residual BA.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable oak, aspen, maple

Regen:

Other

Oak should be the featured species to regenerate.

Comment:

Proposed Start Date: 10/01/2017



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
44	63142044-Cut	33.7	4130 - Aspen	Poletimber Well	51	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal

Habitat Cut: No**Site Condition:**

Prescription Final harvest. Use Cadillac Pathway as treatment boundary. Leave oak. Protect recreation trail.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

57	63142057-Cut	21.7	4123 - Red Oak	Poletimber Well	85	111- 140	Harvest	Seed Tree with Retention	412 - Oak Types	Two-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Harvest all red maple and aspen, thin oak to 20-40 residual BA. Protect recreation trail.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable oak, maple, aspen.

Regen:

Other

May need to burn in the future (?) to set back red maple and stimulate oak regeneration.

Comment:

Proposed Start Date: 10/01/2017

64	63142064-Cut	20.5	42110 - Planted Red Pine	Sawtimber Well	59	171- 200	Harvest	Single Tree Selection	42110 - Planted Red Pine	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Thin red pine to 110-120 BA. Only thin area of stand that needs it. There may be portions of stand (southern end) that do not need a treatment.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable none

Regen:

Other

CUT MDOT PINE to EAST WHILE WE ARE IN HERE?????

Comment:

Proposed Start Date: 10/01/2017

71	63142071-Cut	1.8	42201 - Natural White Pine, Mixed Deciduous	Poletimber Well	74	141- 170	Harvest	Seed Tree with Retention	4220 - Natural White Pine	Two-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Cut all aspen and red maple. thin white pine to 30-50 BA.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable white pine, aspen and maple

Regen:

Other

A portable bridge (or temporary culvert) is needed to access this stand.

Comment:

Proposed Start Date: 10/01/2017



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
76	63142076-Cut	26.3	4130 - Aspen	Poletimber Well	59	81-110	Harvest	Clearcut with Retention	4131 - Aspen, Oak	Even-Aged	Proposal

Habitat Cut: No**Site Condition:**

Prescription Final harvest. Retain oak and pine scattered throughout. mark pine to cut in areas that it needs it.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable aspen, oak and pine

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

81	63142081-Cut	3.1	4130 - Aspen	Poletimber Well	47	81-110	Harvest	Clearcut	4130 - Aspen	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Final harvest. No retention due to small size of stand.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable aspen and white pine

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

82	63142082-Cut	3.0	42120 - Planted Jack Pine	Poletimber Well	59	81-110	Harvest	Clearcut	4319 - Mixed Upland Forest	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Final harvest. No retention to release understory.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable oak and mixed pine

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

83	63142083-Cut	38.1	4130 - Aspen	Poletimber Well	52	81-110	Harvest	Clearcut with Retention	4130 - Aspen	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Final harvest. Retain 10 BA of oak.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regeneration to include aspen, maple, oak and white pine

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017



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
104	63142104-NF	64.5	622 - Lowland Shrub	Nonstocked		Unspec ified	NonForestMgt	Water Level Management	629 - Mixed non- forested wetland		Proposal

Habitat Cut: No**Site Condition:**

Prescription Water level manipulation as determined by WLD, PRD, and Fish.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

111	63142111- Other	21.9	4199 - Other Mixed Upland Deciduous	Poletimber Well	45	111- 140	Other	Other	4199 - Other Mixed Upland Deciduous	Even-Aged	Proposal
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Habitat Cut: No**Site Condition: Recreational/Scenic**

Prescription Land around Cadillac OSC to be open to create an interpretive trail/ multi-use walking trail. Any treatment activities associated with the creation of a trail (hand cutting, brush removal,...) to be included.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

166	63142166-Cut	33.4	4130 - Aspen	Poletimber Well	51	111- 140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription final harvest retaining ~5-10 BA of oak where present. Only cut white pine in dense areas.

Specs:

Next Step

Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable

Aspen, oak, balsam fir, red maple, white pine

Regen:

Other there is enough oak throughout stand it may be easier to mark oak to cut. A portable bridge (or temporary culvert) is needed to access this sale.

Comment:

Proposed Start Date: 10/01/2017

**Total Treatment
Acreage Proposed: 522.5**

Report 4 – Site Conditions

Cadillac Mgt. Unit
Blair Tweedale : Examiner

Compartment: 142
Year of Entry: 2018

Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available		Dominant Site Conditions										
		With Condition				4A	5B	5C	5F	2A	2G	3D	3G	3J	5E	
648	520	119		9	Aspen			119			1				6	2
29	10	0		19	Cedar										19	
12	8	0		4	Hemlock							4				
20	20	0		0	Herbaceous Openland											
40	40	0		0	Jack Pine											
43	43	0		0	Low-Density Trees											
93	19	23		51	Lowland Conifers			23			51					
80	80	0		0	Lowland Shrub											
127	84	4		39	Mixed Upland Deciduous	4				39						
4	4	0		0	Natural Mixed Pines											
56	51	0		5	Northern Hardwood							5				
707	509	195		3	Oak		74	76	45			1	2			
3	0	0		3	Paper Birch							3				
1	0	1		0	Planted Mixed Pines	1										
405	363	42		0	Red Pine			42								
21	0	0		21	Tamarack					21						
42	3	39		0	Upland Mixed Forest			39								
13	13	0		0	Upland Shrub	0										
4	4	0		0	Urban	0										
40	40	0		0	Water											
25	25	0		0	White Pine											
2,414	1,838	423		153	Total Forested Acres	5	74	299	45	39	73	12	2	25	2	
	76%	18%		6%	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	Available		5C: Delay treatment for age/size class diversity or exceptional site quality	28	Unspecified	Unspecified	Unspecified	Unspecified
Comments:								

Report 4 – Site Conditions

Cadillac Mgt. Unit
Blair Tweedale : Examiner

Compartment: 142
Year of Entry: 2018

2	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5	5B: Maintain for regeneration purposes	Unspecified	Unspecified	Unspecified
Comments:							
3	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Thin next entry with adjacent red pine stands North and South.							
6	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	35	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Thin stand next YOE with stands to the North							

Report 4 – Site Conditions

Cadillac Mgt. Unit
Blair Tweedale : Examiner

Compartment: 142
Year of Entry: 2018

8	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	21	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: cutting one side of the Cadillac Pathway							
10	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	25	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Available	5F: Evaluated for Forest Health Considerations	45	5C: Delay treatment for age/size class diversity or exceptional site quality	Unspecified	Unspecified	Unspecified
Comments: These stands are being utilized by many wildlife species. Hold stand for species diversity in the area.							
12	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	26	5B: Maintain for regeneration purposes	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	2A: Adjacent landowner denied access	39	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Consider disposal.							

Report 4 – Site Conditions

Cadillac Mgt. Unit
Blair Tweedale : Examiner

Compartment: 142
Year of Entry: 2018

14	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	39	5B: Maintain for regeneration purposes	Unspecified	Unspecified	Unspecified
Comments:							
15	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	13	5B: Maintain for regeneration purposes	Unspecified	Unspecified	Unspecified
Comments:							
16	Unavailable	3G: Other Influence zones - See comments	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: consider liquidating this small parcel.							
17	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: cutting one side of the Cadillac Pathway							
18	Unavailable	3D: Recreational / Scenic values	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
19	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Delay treating stand until next YOE, when adjacent stands will be ready to be treated also.							

Report 4 – Site Conditions

Cadillac Mgt. Unit
Blair Tweedale : Examiner

Compartment: 142
Year of Entry: 2018

20	Available	5B: Maintain for regeneration purposes	26	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand has nice single stem red maple regeneration. Delay treatment to let regen advance.							
21	Available	5B: Maintain for regeneration purposes	34	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Let understory white pine advance.							
22	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
23	Available	5B: Maintain for regeneration purposes	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
24	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
25	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Cadillac Mgt. Unit
Blair Tweedale : Examiner

Compartment: 142
Year of Entry: 2018

67	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	25	3H: Deer Wintering Areas	2G: Too wet (sensitive soils, does not include access issues)	5E: Long-Term Retention	Unspecified
Comments: Buffer for natural river (North Branch Pine River). Current river shape is not accurate.							
76	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	36	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
77	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	46	3H: Deer Wintering Areas	Unspecified	Unspecified	Unspecified
Comments:							
94	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
100	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	21	3H: Deer Wintering Areas	Unspecified	Unspecified	Unspecified
Comments:							
106	Unavailable	3D: Recreational / Scenic values	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Cadillac Mgt. Unit
Blair Tweedale : Examiner

Compartment: 142
Year of Entry: 2018

107	Unavailable	3D: Recreational / Scenic values	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
108	Unavailable	3D: Recreational / Scenic values	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
111	Available	4A: No Markets Available for these Forest Products	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
113	Available	4A: No Markets Available for these Forest Products	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
177	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	3H: Deer Wintering Areas	Unspecified	Unspecified	Unspecified
Comments:							

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
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Comments				
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Report 6 – 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 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.
HCVA	Natural Rivers	There are two Natural Rivers datasets which are derived from spatial buffers set from an established and approved distance from the river centerlines. The Natural Rivers Zoning District is a 400 foot buffer for most Natural Rivers. The Vegetative Buffer ranges from 25 to 100 feet. To view specific Zoning Districts and Vegetative Buffers for each Natural River see the table located on the I:\Documentation\GDSE data folder.
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of natural communities that have been identified as Element Occurrences (EOs) by the Michigan Natural Features Inventory (MNFI) within the context of their natural community classification system. Element Occurrences with viability ranks of A (Excellent) or B (Good) and a Global (G) or State (S) element (rarity) ranking of endangered (1), threatened (2), or rare (3) serve as an initial base of ERAs. They may be located upon any ownership in the State. The system is comprised of individual or associations of natural community types that are managed for restoration and maintenance of natural ecological processes and values. The public may submit recommendations for lands as ERAs using the DNR Conservation Area Recommendation Form.

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Cadillac Mgt. Unit

Report 7 – Forested Stands

Compartment: 142
Year of Entry: 2018

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	42110 - Planted Red Pine	Sawtimber Well	11.7	60	141-170	planted red pine
2	4123 - Red Oak	Poletimber Medium	9.2	108	51-80	low density oak stand which was under planted mainly with white spruce. Spruce is 4-6 inches in diameter.
3	42110 - Planted Red Pine	Poletimber Well	5.2	60	141-170	planted red pine. Oak overtopping pine in many areas, keeping pine suppressed.
4	4133 - Aspen, Mixed Pine	Sawtimber Medium	11.5	47	1-50	Mixed stand
5	42111 - Planted Red Pine, Mixed Deciduous	Poletimber Well	13.8	60	111-140	Planted red pine is suppressed from overstory oak.
6	4123 - Red Oak	Sawtimber Well	50.2	111	111-140	Oak stand with stump sprout red maple in understory. low density of oak regeneration. BA is higher than the 110-140 average in pockets.
7	4123 - Red Oak	Sawtimber Well	33.8	106	81-110	OPIC - FMD: Oak stand with underplanted white pine. WP planted in 1956. Stand treated by Rothig in 2003. White pine is not entirely pulp size yet. may consider a treatment next YOY.
8	42110 - Planted Red Pine	Poletimber Well	22.1	60	141-170	Red pine stand thinned in 2001.
9	42130 - Planted Scotch Pine	Poletimber Well	0.8	65	141-170	Scotch Pine plantation near Cadillac District Office. There is a small pocket of same age scotch pine in stand 109. Less than one acre.
10	4121 - Oak, Aspen	Poletimber Well	244.0	86	81-110	Rolling terrain. Pockets dominated by bigtooth aspen. Beech Bark Disease throughout stand. May want to think about treating stand in areas that are heavy to beech and aspen. Cadillac pathways goes through stand. LOOK FOR SIGNS OF OAK WILT.
11	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	9.7	5	51-80	Low density oak dominated stand with white pine mixed in.
12	4119 - Mixed Northern Hardwoods	Sapling Well	5.2	14	Immature	Stand is immature maple aspen.
13	4199 - Other Mixed Upland Deciduous	Sawtimber Well	38.8	89	141-170	Mixed deciduous stand dominated by oak. Pockets heavy to beech with oak. Average BA swings contained the following: red oak: BA 58, red maple BA 48, beech BA 30, BT aspen BA 12.
15	4130 - Aspen	Sapling Well	20.9	26	Immature	Nice aspen stand.
16	4131 - Aspen, Oak	Poletimber Well	14.6	51	111-140	Nice aspen stand with a component of red oak.
17	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Well	8.4	60	141-170	Red pine, jack pine and oak stand that serves as retention, and protection along the clam river.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
18	4191 - Mixed Upland Deciduous with Conifer	Sapling Poor	35.2	5	Immature	mixed regeneration stand.
19	42110 - Planted Red Pine	Poletimber Well	113.9	62	141-170	Red pine stand with mature oak. understory is moderate to heavy with red maple, oak and beech. 10-30 basal area of red oak sawtimber remains for seed and mast.
20	4123 - Red Oak	Sawtimber Medium	45.4	108	51-80	Mature Oak with planted spruce. Oak is super canopy, with spruce reaching canopy height.
21	4199 - Other Mixed Upland Deciduous	Sapling Poor	28.2	5	1-50	Oak seed tree stand with pockets of thick aspen regeneration, stump sprout red maple and seedling size oak scattered throughout. Deer Browse present on maple and oak.
22	4130 - Aspen	Sapling Well	5.3	5	Immature	Aspen regen stand with a couple big scattered oak.
23	4123 - Red Oak	Sawtimber Medium	13.7	112	1-50	Seed tree oak stand. Stump sprout red maple and seedling size red oak throughout. Deer browse present on maple and oak.
24	4130 - Aspen	Sapling Well	9.1	16	Immature	Nice Aspen stand.
25	4123 - Red Oak	Sawtimber Well	7.3	88	1-50	oak seed tree stand with maple, oak and aspen regenerating.
26	42110 - Planted Red Pine	Poletimber Well	23.1	60	171-200	Planted red pine with scattered Large sawlog oak.
27	42220 - Natural Jack Pine	Sapling Poor	23.6	5	Immature	Mature oak and black cherry scattered across a jack pine regeneration site. jack pine regen is spotty.
28	4123 - Red Oak	Sawtimber Well	13.1	108	1-50	
29	4310 - Pine, Oak Mix	Poletimber Well	39.3	106	81-110	Oak stand that was under planted with white pine in 1961. Stand was thinned in 2011. BA varies throughout stand.
30	4123 - Red Oak	Sawtimber Well	72.1	109	51-80	Oak shelterwood stand with maple, aspen and oak regeneration throughout. Maple is mostly stump sprouts. Scattered trace of white oak in the overstory. Canopy closure is in the 75% range.
31	4123 - Red Oak	Sawtimber Well	26.0	109	51-80	Oak stand with advanced red maple understory. Stand BA is closer to 50.
33	42220 - Natural Jack Pine	Sapling Poor	13.9	5	Immature	jack pine is spotty and small.
36	4117 - Mixed N. Hardwood - Pine	Sapling Medium	35.3	5	Immature	natural regenerating mixed stand.

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Cadillac Mgt. Unit

Report 7 – Forested Stands

Compartment: 142
Year of Entry: 2018

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
37	42110 - Planted Red Pine	Poletimber Well	38.5	60	141-170	planted red pine
38	4130 - Aspen	Poletimber Well	61.7	41	111-140	Nice aspen stand. Cadillac Pathway passes through stand.
39	42110 - Planted Red Pine	Poletimber Well	5.8	59	171-200	Planted red pine stand.
40	42101 - Planted White Pine, Mixed Deciduous	Poletimber Medium	4.5	59	111-140	White Pine dominated pocket. Cadillac Pathway borders stand on the east side.
41	4123 - Red Oak	Sawtimber Well	13.4	98	81-110	Red oak dominated stand.
42	42110 - Planted Red Pine	Sawtimber Medium	6.8	59	81-110	Red pine and oak stand with advanced oak and aspen understory. Cadillac Pathway runs through stand. Scenic qualities along pathway.
43	42110 - Planted Red Pine	Poletimber Well	12.3	59	141-170	Planted red pine.
44	4130 - Aspen	Poletimber Well	54.3	51	81-110	Aspen stand with varying site quality. Better quality to the north and south thirds of the stand. Large old pine stumps scattered throughout the stand.
47	42111 - Planted Red Pine, Mixed Deciduous	Poletimber Well	10.1	60	141-170	Planted red pine with red oak. Basal area of red pine is variable (between 70-170BA).
48	42110 - Planted Red Pine	Poletimber Well	5.2	60	171-200	Red pine stand with scattered red oak.
49	4130 - Aspen	Sapling Well	20.4	14	Immature	Aspen regeneration with oak and maple mixed in.
50	42110 - Planted Red Pine	Poletimber Well	2.7	59	141-170	Planted red pine.
51	4199 - Other Mixed Upland Deciduous	Sapling Poor	11.2	4	Immature	Young mixed deciduous regeneration with jack pine seedlings.
52	42110 - Planted Red Pine	Poletimber Well	7.6	60	141-170	Planted red pine.
53	42110 - Planted Red Pine	Poletimber Well	7.3	60	141-170	Planted red pine with a moderate to heavy understory of mixed deciduous.
54	42110 - Planted Red Pine	Poletimber Well	18.4	59	171-200	Planted red pine stand. Some areas have super canopy oaks suppressing red pine.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
55	4123 - Red Oak	Sawtimber Well	66.3	80	51-80	Cut records indicate stand was thinned in 2004. Stand has variable BA. Areas have a BA of 10 sq. ft, and others have 80 sq. ft. Understory density is variable. Areas of lower BA have much more regeneration in the understory.
57	4123 - Red Oak	Poletimber Well	28.4	85	111-140	Stand is an oak stand with aspen scattered and in pockets.
58	4131 - Aspen, Oak	Poletimber Well	12.5	45	81-110	Aspen dominated area with a red oak component.
59	42110 - Planted Red Pine	Poletimber Well	31.7	59	141-170	Red pine is variable in density, diameters and heights.
60	4131 - Aspen, Oak	Sapling Well	8.3	15	Immature	Stand was harvested in 2001. Residual good quality oak trees were left in the previous harvest. Stand is a young aspen oak stand with scattered super canopy oak trees.
61	42110 - Planted Red Pine	Poletimber Well	11.6	59	141-170	Planted red pine stand with areas dominated by oak. small pocket of nice oak regeneration. Oak and maple regeneration found throughout.
62	4123 - Red Oak	Poletimber Well	26.3	65	81-110	Overall, this stand is a pole size stand with pockets of nice aspen. Small pockets of mature oak (less than an acre). Extremely variable species composition, along with variable size classes.
63	4123 - Red Oak	Poletimber Well	24.4	61	111-140	Young oak dominated stand. Scattered large oak found throughout.
64	42110 - Planted Red Pine	Sawtimber Well	20.5	59	171-200	Red pine stand with variable density, diameter and product class. Red maple regeneration is Heavy to Full in the northern portions of stand where planted pine is more intact.
65	42110 - Planted Red Pine	Poletimber Well	6.4	55	111-140	red pine stand
66	4130 - Aspen	Sapling Well	22.3	4	Immature	nice aspen regeneration
67	6120 - Lowland Cedar	Poletimber Well	19.1	114	111-140	lowland conifer stand bordering the North Branch Pine River.
69	42110 - Planted Red Pine	Poletimber Well	4.4	60	171-200	
70	42200 - Natural White Pine	Sawtimber Medium	6.7	67	81-110	White pine stand with red pine and red oak present. Aspen and maple removed last entry. Aspen regeneration in areas with little canopy cover.
71	42201 - Natural White Pine, Mixed Deciduous	Poletimber Well	1.8	74	141-170	mixed stand of white pine and aspen.
72	4130 - Aspen	Poletimber Well	10.5	42	111-140	



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
73	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	2.8	73	111-140	Wet stand. Mix of cedar, red maple, and white pine with tag alder and conifer species in the understory.
74	42110 - Planted Red Pine	Poletimber Well	7.9	55	171-200	Red pine plantation. Stand borders 481/2 road which is maintained as a snowmobile trail in the winter months. Stand is at 180 BA.
75	42210 - Natural Red Pine	Sawtimber Medium	3.3	89	111-140	Nice red pine.
76	4130 - Aspen	Poletimber Well	62.7	59	81-110	Nice aspen stand
77	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	49.5	103	51-80	Mixed lowland conifer swamp complex
78	42200 - Natural White Pine	Sawtimber Well	6.1	69	111-140	Natural white pine stand.
79	4133 - Aspen, Mixed Pine	Poletimber Medium	15.5	28	1-50	Old opening filling in with aspen, white pine and jack pine. Low stocking.
80	42200 - Natural White Pine	Sawtimber Well	5.8	67	111-140	white pine dominated stand with red pine present.
81	4130 - Aspen	Poletimber Well	3.1	47	81-110	Nice aspen stand with a low amount of white pine in the understory.
82	42120 - Planted Jack Pine	Poletimber Well	3.0	59	81-110	Jack pine stand is falling apart.
83	4130 - Aspen	Poletimber Well	65.7	52	81-110	Nice aspen. harvest northern portion of stand. treatment shape is a placeholder to break up aspen age class.
85	4130 - Aspen	Sapling Well	13.0	3	Immature	Aspen regeneration. Scattered mature white pine.
87	4130 - Aspen	Sapling Well	2.4	3	1-50	Aspen regeneration with scattered log white pine
88	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	12.6	86	81-110	Mixed Lowland stand with some upland.
89	42290 - Natural Mixed Pine	Sawtimber Well	4.2	93	111-140	Southern portion of stand is dominated by red pine. Northern portion is dominated by white pine.
90	4130 - Aspen	Sapling Well	54.1	14	Immature	aspen regeneration with scattered mature red oak.
91	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	11.1	82	81-110	lowland hemlock cedar type.

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Cadillac Mgt. Unit

Report 7 – Forested Stands

Compartment: 142
Year of Entry: 2018

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
92	6120 - Lowland Cedar	Poletimber Well	10.3	113	Unspecified	Lowland cedar with scattered hemlock. Canopy closure closer to 75%
93	4130 - Aspen	Sapling Well	65.0	26	Immature	aspen regen with seed tree red oak scattered throughout.
94	42210 - Natural Red Pine	Sawtimber Well	1.1	94	111-140	Stand was thinned in 2001. retain stand for diversity.
95	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	11.6	83	81-110	Lowland mixed stand.
98	42350 - Upland Hemlock	Sawtimber Medium	8.4	86	141-170	Hemlock dominated stand.
99	42210 - Natural Red Pine	Sawtimber Well	5.1	91	81-110	Nice red pine stand with mixed regeneration coming in.
100	6121 - Tamarack	Poletimber Medium	21.4	83	1-50	Low wet stand dominated by tamarack with black spruce and cedar. Low stem density.
101	4130 - Aspen	Sapling Well	5.9	26	Immature	Upland aspen clone with balsam fir in the understory around the edges, and scattered throughout.
102	4319 - Mixed Upland Forest	Sapling Medium	3.2	26	Immature	Low stocked mixed stand.
106	42350 - Upland Hemlock	Sawtimber Well	3.7	85	141-170	OPIC - FMD: Hemlock stand within the cadillac nature heritage study area.
107	4140 - Other Upland Deciduous	Poletimber Well	2.6	70	81-110	
108	412 - Oak Types	Poletimber Well	0.9	135	81-110	
111	4199 - Other Mixed Upland Deciduous	Poletimber Well	3.8	45	111-140	Stand of mostly locust and black cherry. Heavy non-native honeysuckle in the understory.
114	4112 - Maple, Beech, Cherry Association	Poletimber Well	4.6	69	111-140	Mixed deciduous stand, primarily of red maple and cherry. Understory consisting of beech, red maple, and white pine with a heavy presence of non-native bush honeysuckle.
127	4112 - Maple, Beech, Cherry Association	Sapling Poor	10.9	12	Immature	reed maple regenerating under scattered large oak
155	4124 - Red with White Oak	Poletimber Medium	7.3	88	1-50	OPIC - FMD: Nice pocket of young oak west of pipeline. Some scattered sawlog sized oak and some red pine pole timber.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
166	4130 - Aspen	Poletimber Well	61.3	51	111-140	Nice aspen stand with a fair component of mature red oak. Understory varies in composition, but is mostly low density. West portion of stand has heavy balsam fir understory, while southwest portion has a component of white pine coming in.
172	4130 - Aspen	Sapling Well	20.5	4	Immature	Aspen regen
176	4130 - Aspen	Sapling Well	27.3	3	Immature	aspen regeneration stand with scattered oak and white pine.
177	6127 - Lowland Pine	Poletimber Well	5.3	103	81-110	Large diameter white pine with a mixed conifer understory. Stand transitions into a cedar dominated lowland to the north.
255	4123 - Red Oak	Sawtimber Well	24.9	81	81-110	Cut records indicate stand was thinned in 2004. Rolling terrain. Stand is composed of larger oak with sufficient spacing. BA hit around 80-90, depending on where it was taken. Canopy closure is closer to 75%.



Stand	Cover Type	Acres	Managed Site	General Comments:
14	622 - Lowland Shrub	2.2	No	
32	330 - Low-Density Trees	17.8		red pine was harvested around 2011. Scattered log size oak and pole size black cherry. A few red oak pockets. Red maple, red oak and jack pine seedlings/saplings present.
34	6229 - Mixed lowland shrub	6.7	No	Clam River bottom.
45	310 - Herbaceous Openland	1.3	No	Old log landing. May be opportunity for a managed wildlife opening?
56	3105 - Mixed Upland Herbaceous	5.9	No	Pipeline.
68	500 - Water	15.1	No	OPIC - FMD: Two ponds
84	3105 - Mixed Upland Herbaceous	1.1	No	OPIC - FMD: Row thinned in 2001. Second thin next YOE.
96	310 - Herbaceous Openland	4.8	No	
97	500 - Water	24.7	No	standing dead snags in marsh.
104	622 - Lowland Shrub	64.5	No	
105	3105 - Mixed Upland Herbaceous	2.1	No	power line ROW
109	110 - Low Intensity Urban	4.1	No	Cadillac OSC grounds
112	320 - Upland Shrub	12.7	No	
168	6229 - Mixed lowland shrub	6.6	No	OPIC - FMD: Tag alder surrounding pond.
226	330 - Low-Density Trees	19.6		Red pine was removed from site in 2010. Scattered saw log size red oak and pole size black cherry.
401	330 - Low-Density Trees	3.3	No	opening
402	330 - Low-Density Trees	2.0	No	forest opening beginning to fill in gradually on east end.
403	330 - Low-Density Trees	0.6	No	opening



Stand	Cover Type	Acres	Managed Site	General Comments:
404	310 - Herbaceous Openland	3.9	No	
406	3102 - Grass	1.2	No	