



**ESCANABA FOREST MANAGEMENT UNIT  
COMPARTMENT REVIEW PRESENTATION**

**COMPARTMENT # 10 ENTRY YEAR: 2010**

**Compartment Acreage: 851 County: Menominee**

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*Last Revision: July 24, 2008*

**Stand Examiner:** Kelly Standerfer FMFMD; Bill Rollo and Craig Albright, Wildlife Division

**Legal Description:** T37N, R28W Sec. 25, 26 & 27

**Management Goals:** This year of entry (YOE), management goals are focused on managing for a mixture of both vegetative and wildlife diversity. This compartment contains a wide variety of cover types ranging from upland aspen, maple and pine types to lowland cedar, swamp hardwood, mixed conifer swamp and bog types. Treatments will be focused on aspen, maple, oak, swamp hardwood, and pine stands. One aspen type is to be treated with a final harvest with reserves to maintain this stand for an aspen management objective. Two maple stands will be treated with a selection harvest system to increase stand growth and vigor as well as regenerate a mix of maple and upland spruce and fir. One small maple stand will be treated with a seed tree harvest as it has an abundance of aspen and will have a mixed management objective of maple, aspen and upland spruce and fir. One oak stand is slated for treatment with a shelterwood-prep harvest. One white pine stand will be shelterwood cut to manage for a mix of pine and maple. One swamp conifer stand will be seed tree harvested to regenerate back to a mix of swamp conifer. This stand primarily consists of tamarack but does have some spruce and poor quality cedar, some of which will be harvested. Overall treatments for this YOE are focused on maintaining stand health and vigor as well as maintaining or improving overall species diversity throughout the area. Through a variety of treatments we hope to maintain diversity throughout the area while utilizing forest products and regenerating stands for the future.

**Soil and Topography:** Terrain is mostly level to rolling with some hills. The majority of the upland consists of Onaway fine sandy loams, Kiva variant fine sandy loams as well as Onaway-Kiva variant. Lowland areas consist of Greenwood-Dawson association, Lupton-Tawas association as well as Tawas-Lunds-Kiva variant complex..

**Ownership Patterns, Development, and Land Use in and Around the Compartment:** This compartment is part of a large block of state ownership that is about 20 miles long by 8 miles wide. This belt of state forest contains many private in-holdings most of which are used for hunting and general recreating. Land use on the state land is mixed but is used primarily for deer, grouse and black bear hunting. There is one 40 acre parcel on the east end of this compartment that should be disposed as we have no access and the general public has no access. I was not able to physically inventory this area but instead used imagery to make stand estimates.

**Unique, Natural Features:** Some of the headwaters for the Miscauna Creek are with this compartment boundary.

**Archeological, Historical, and Cultural Features:** The Miscauna Grade, an old rail-road grade, runs through this compartment.

**Special Management Designations or Considerations:** None.

## **Watershed and Fisheries Considerations:**

**Wildlife Habitat Considerations:** This small compartment is mainly forested with aspen (39%) and cedar (26%). Other primary forest types include northern hardwoods (9%), oak (6%), and white pine (5%). This compartment grows high quality aspen, a forest type that is valuable habitat for many of the most popular game species (deer, grouse, and woodcock) and many non-game species as well. Aspen will continue to be managed through final harvest to provide habitat in a variety of age classes. Oak is found in this compartment in mixture with hardwoods, aspen, and white pine. Mast-producing oak will be retained for wildlife values, and some will be harvested to regenerate it via stump-sprouting.

## **Mineral Resource and Development Concerns and/or Restrictions:**

**Vehicle Access:** This compartment is easily accessible via County Road G-18; a state system road called the Miscauna Road as well as other forest two tracks. The Miscauna grade, which runs the length of this compartment has several areas that need better cross drainage. RDR forms will be filled out for these.

**Survey Needs:** No survey corners should be needed for treatments this YOE.

**Recreational Facilities and Opportunities:** No developed facilities are within this compartment, however this compartment provides many recreation opportunities including hunting, camping, and hiking.

**Fire Protection:** Access to the majority of this compartment is relatively good. No significant control problems are foreseen due to the lack of explosive fuels and an abundance of natural fuel breaks, such as low wet stands of timber and lowland brush. Low wet areas will impede fire suppression as well as fire spread.

## **Additional Compartment Information:**

**\*\*\*\* Cover type details, proposed treatments and stands designated as FDF are listed in the attached reports:**

- Cover Type by Age Class**
- Cover Type by Management Objective**
- Compartment Volume Summary**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**

**\*\*\*\* The following information is displayed on the attached compartment maps:**

- Base feature information, stand numbers, cover types**
- Proposed treatments**
- Proposed road access system**
- Suggested potential old growth**

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Michigan Department of Natural Resources - Operations Inventory System  
Individual Compartment Report

ESCANABA RIVER STATE FOREST

ESCANABA FOREST MGT UNIT

MENOMINEE COUNTY

COMPARTMENT: 10

Table 3

(acres shown in boxes)

STAND AGE CLASS

COVER TYPE	Not Coded	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	150-159	All Aged	Total
Aspen		26	32	110	130	32													330
Cedar						13							54	152					219
Grass	2																		2
Lowlnd Brush	2													9					11
Marsh	35																		35
Mx Swmp Cnfr					2	12			16										30
Non Stocked	1																		1
Oak										14	9							25	48
Spruce Fir			20		4														24
Tamarack														27					27
Upland Brush	3																		3
Upland Hdwds								4		73									77
Water	3																		3
White Pine				8								33							41
<b>Total</b>	<b>46</b>	<b>26</b>	<b>52</b>	<b>118</b>	<b>136</b>	<b>57</b>		<b>4</b>	<b>16</b>	<b>87</b>	<b>9</b>	<b>33</b>	<b>54</b>	<b>188</b>				<b>25</b>	<b>851</b>

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Michigan Department of Natural Resources - Operations Inventory System  
Individual Compartment Report

ESCANABA RIVER STATE FOREST

ESCANABA FOREST MGT UNIT

MENOMINEE COUNTY

COMPARTMENT: 10

Table 3A

(acres shown in boxes)

## MANAGEMENT OBJECTIVE TYPE

COVER TYPE	A	S	V	C	G	H	J	I	L	P	N	Q	X	O	B	R	K	Y	F	E	T	D	U	M	Z	W	Total	
A Aspen	330																										330	
C Cedar				219																							219	
G Grass					2																						2	
L Lowlnd Brush									11																		11	
N Marsh											35																35	
Q Mx Swmp Cnfr												30															30	
X Non Stocked													1														1	
O Oak														48													48	
F Spruce Fir																			24								24	
T Tamarack																					27						27	
U Upland Brush																								3			3	
M Upland Hdwds																								77			77	
Z Water																									3		3	
W White Pine																			8							33	41	
<b>Total</b>	<b>330</b>			<b>219</b>	<b>2</b>				<b>11</b>		<b>35</b>	<b>30</b>	<b>1</b>	<b>48</b>					<b>32</b>		<b>27</b>			<b>3</b>	<b>77</b>	<b>3</b>	<b>33</b>	<b>851</b>

ESCANABA RIVER STATE FOREST

ESCANABA FOREST MGT UNIT

MENOMINEE COUNTY

COMPARTMENT: **10**

*Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS*

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	4574 Cds	Hardwood	1224 Cds
Hardwood	288 Mbf	Hardwood	35 Mbf
Softwood	5481 Cds	Softwood	519 Cds
Softwood	625 Mbf	Softwood	32 Mbf
Sum TotVol	11881 Cds	Sum CutVol	1877 Cds
<b>Total Cmpt Acres</b>		Acres Proposed For Cut.....	130
851			

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDf Status
<b>4</b>	<b>A6</b>	18	42	70	aspen (upland)	mature	final harvest	1	natural regeneration	
<p>comnts Fmd : South end more open F5 over F3 (bud worm damage). Final harvest but save the majority of the white pine and save a few seed trees of Fs where needed. NW end has a small Q type with a drain through it, buffer the drain and save a mix bag of species in this area. Most fir and spruce are in rough shape from bud worm. Ok to mark some pine to cut but save most of it. Should result in a nice mix of A, F, Pine and M. As per pre-review wildlife is Ok with harvesting some of the cedar as the cedar inside the buffer will be retained along with some of the cedar within the unit.</p> <p>Wld : Cedar may be harvested within this stand, but please save some cedar along the drainage. Concur with FMFMD.</p>										
<b>8</b>	<b>M6</b>	13	86	67	northern hardwood	mature	selection	1	natural regeneration	
<p>comnts Fmd : Held last YO. Mark down to 50-70 of mixed species. OK to cut some oak but try to save a good mix. Where oak is marked to remove, gaps can be cut to the south to try to regenerate the oak via stump sprouting. Mixed hard and soft maple not the best quality. Cut all merchantable Fb, Fs, B &amp; A along edge of stand and through out except mark some to save for species diversity &amp; retention. OK to dip slightly into adjacent stands where there is an abundance of mature Fb and Fs but cut no cedar. Long term MO of mixed M and F. As per pre-review wildlife would like to favor the retention of most of the oak. Stand edge transitions into Q type. It is OK to cut most of the mixed softwood but no cedar or hemlock is to be cut.</p> <p>Wld : WLD agreed that some oaks may be cut to promote stump sprouting. WLD would prefer retaining most of the oak within this stand. Concur with FMFMD.</p>										
<b>13</b>	<b>M6</b>	40	79	61	northern hardwood	mature	selection	1	natural regeneration	
<p>comnts Fmd : mixed Ms, Mr, Beech, Bass, Ash, Fs, Fb, O,W, C &amp; R. Birch is in pretty rough shape. Some areas of nicer maple poles. Cut all A &amp; B except mark some to retain. Mark nicer pole areas down to 70-90 and mark the remainder down to 40 or 50BA. Favor the retention of oak and pine but it is OK to cut some. Some will be more of a shelterwood cut and some more of a thinning or selection. Long term MO of mixed M, F &amp; Pine. Come back in 10-20 yrs for overstory. Where oak is cut make sure that a gap is put around the oak stump.</p> <p>Wld : Concur with FMFMD.</p>										
<b>22</b>	<b>O6</b>	25		50	oak	mature	shelterwood-prep	1		
<p>comnts Fmd : Red oak logs and maple saps and pole with a few areas of W7 and red maple, Fb &amp; B. NW end more maple poles. Cut all A and mark the rest to 40-50BA favoring the retention of oak and pine. Mark some A to retain for species diversity. When oak is cut clear some gaps to the south to get light to stumps. Try to get brush placed on stumps through the timber sale contract to limit deer drowse. May want to scarify post harvest in residual oak areas. MO of mixed M, O &amp; W. any mix of regen is acceptable but oak and pine is most desired. As per pre-review wildlife would like to favor the retention of most of the oak. As per Pre-review wildlife would like save 70-80BA instead of the 40-50 and favor the retention of oak. It is OK to put some gaps in where oak is harvested to encourage oak stump sprouts. Try to put in atleast 5-6 gaps around oak stumps and thin the remainder favoring the release of the oak.</p> <p>Wld : As discussed in pre-review, up to 5 gaps may be placed within this stand to promote oak stump regeneration. WLD would like this prescription to be a shelterwood prep or selection cut, only reducing the BA to 70-80. Concur with FMFMD.</p>										
<b>28</b>	<b>M6</b>	4	67	70	northern hardwood	mature	seed tree	1	natural regeneration	
<p>comnts Fmd : Some more A Type &amp; Some M-type. Drain bisects stand, looks like just a tree'd drain, not bed n bank. Buffer drain by leaving edges a bit thicker. Save most pine and Oak. Mark to a residual BA of ~20-30 in M and pine areas, and don't leave anything in aspen areas. Seedtree/Final harvest MO of mixed M/A/Pine &amp; F. Any mix of overstory regen is OK post harvest. As per pre-review save oak &amp; most beech and some birch. Cut to gravel pit @ south end, may go slightly into compartment to the south.</p> <p>Wld : As discussed in pre-review, there will be no cutting of oak within this stand. Leave some beech and a little bit of birch also. Concur with FMFMD.</p>										
<b>51</b>	<b>Q6</b>	16	76	55	mixed swamp conifer	mature	seed tree	1	natural regeneration	
<p>comnts Fmd : upland nob about half way down stand. Save oak and pine on this nob. Mark clumps of seed trees ~1/acre with ~8-10 trees/clump. Cut trees along grade to get to this stand, all trees on ~10 feet on each side of grade. Mostly A, Fb. OK to cut most cedar in stand but save some in the clumps to leave. As per pre-review wildlife would like to tag along when this stand is set up to help mark the leave clumps.</p> <p>Wld : As discussed in pre-review, up to 100 cords of cedar will be harvested from this stand. WLD will help paint the retention within this stand. There is a nice cedar clump on an old grade next to Mereck Ln. This clump will also be retained. Concur with FMFMD.</p>										
<b>55</b>	<b>M6</b>	4	79	61	northern hardwood	immature	selection	1	natural regeneration	
<p>comnts Fmd : mixed Ms, Mr, oak, and B. Mark down to ~70-90 BA. Remove most poor M stems and most B. Long term MO of mixed M, F &amp; Pine. Likely will have to freeze in skid trail from the west or might be able to brush and freeze in a skid trail across stand 46. Cut all Aspen, also cut all fir and spruce with one or more sticks. As per pre-review wildlife is OK with the harvest as prescribed but doesn't want a skid trail frozen across the cedar type to the south. Best access is across private to the north or a skid trail could be pushed in from the west A3 type, this is preferred by wildlife division.</p> <p>Wld : As discussed in pre-review, access to this stand should be from the north or west. Do not make an access road through Std 46. Retain all oaks within this stand. Concur with FMFMD.</p>										

**ESCANABA FOREST MGT UNIT**

**Proposed Treatments  
With NO Limiting Factors**

**Compartment: 10**

**Entry Year: 2010**

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDf Status
67	W9	10	99	52	white pine	immature	shelterwood-seed	2	natural regeneration	

comnts Fmd : A lot of understory is 3-4" dbh poor quality maple. Cutt all species down to ~50BA/Ac. Favor retention of nicer pine & oak. Cut almost all A, B, Fb, Fs and mark remaining species down to 50. Save some of all species for species diversity but most short lived trees will be removed. Cut maple down to 3" Dbh. MO of mixed W, R, O, M F, & A. any mix of this regen is acceptable post harvest. If treatment fails this stand could be burned or scarified however it should fully regenerate.

Wld : Concur with FMFMD.

**Total Acres..... 130**

**Proposed Treatments  
With Limiting Factors**

**Compartment: 10**

**Entry Year:2010**

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<b>Stand</b>	<b>Cover Type</b>	<b>Acres</b>	<b>Age</b>	<b>Site Index</b>	<b>Mgt Obj</b>	<b>Condition</b>	<b>Method Cut</b>	<b>Harvest Priority</b>	<b>Cultural Need</b>	<b>FD Status</b>
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TREATMENT LIMITING FACTORS:

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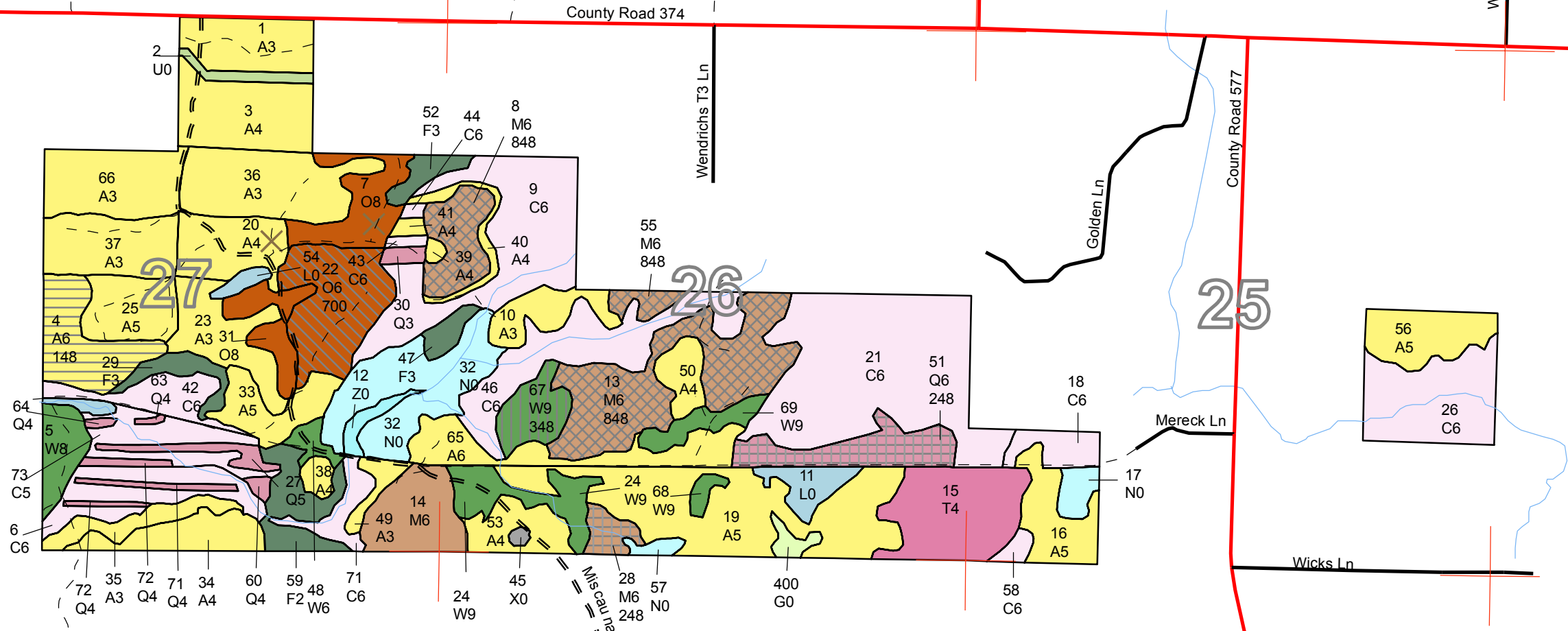
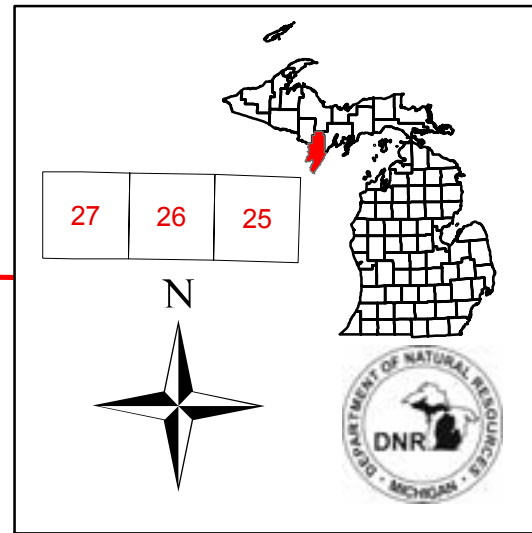
**Total Acres..... 0**

# Covertypes & Treatment Map

Compartment 10  
 T37N, R28W, Sec. 25, 26, 27  
 County: Menominee  
 Unit: Escanaba  
 YOY: 2010  
 Acres: 851 GIS Calculated  
 Stand Examiner: Kelly Standerfer  
 Map Revised: 7/22/2008  
 Map Phase: Pre-review

## Legend

- |   |                          |
|---|--------------------------|
| — Miris Corners                                     | A - Aspen                |
| — County Paved Roads                                | C - Northern White Cedar |
| — Paved Roads                                       | F - Upland Spruce or Fir |
| — Gravel Roads                                      | G - Grass                |
| - - - Poor Dirt Roads                               | L - Lowland Brush        |
| — Water Features                                    | M - Northern Hardwoods   |
| ⊗ Earth Berm  | N - Marsh                |
| □ Stand Boundaries                                  | O - Oak                  |
| ▨ 148 - Final Harvest/Natural Regeneration/Other    | Q - Mixed Swamp Conifers |
| ▩ 248 - Seed Tree/Natural Regeneration/Other        | T - Tamarack             |
| ▧ 348 - Shelterwood-seed/Natural Regeneration/Other | U - Upland Brush         |
| ▨ 700 - Improvement                                 | W - White Pine           |
| ▩ 848 - Selection/Natural Regeneration/Other        | X - Non-Stocked          |
|   | Z - Water                |



87°46'0"W      87°45'0"W      87°44'0"W      87°43'0"W      87°42'0"W

87°46'0"W      87°45'0"W      87°44'0"W      87°43'0"W      87°42'0"W

45°35'0"N

45°35'0"N

45°34'0"N

45°34'0"N

# Stand Boundary Map

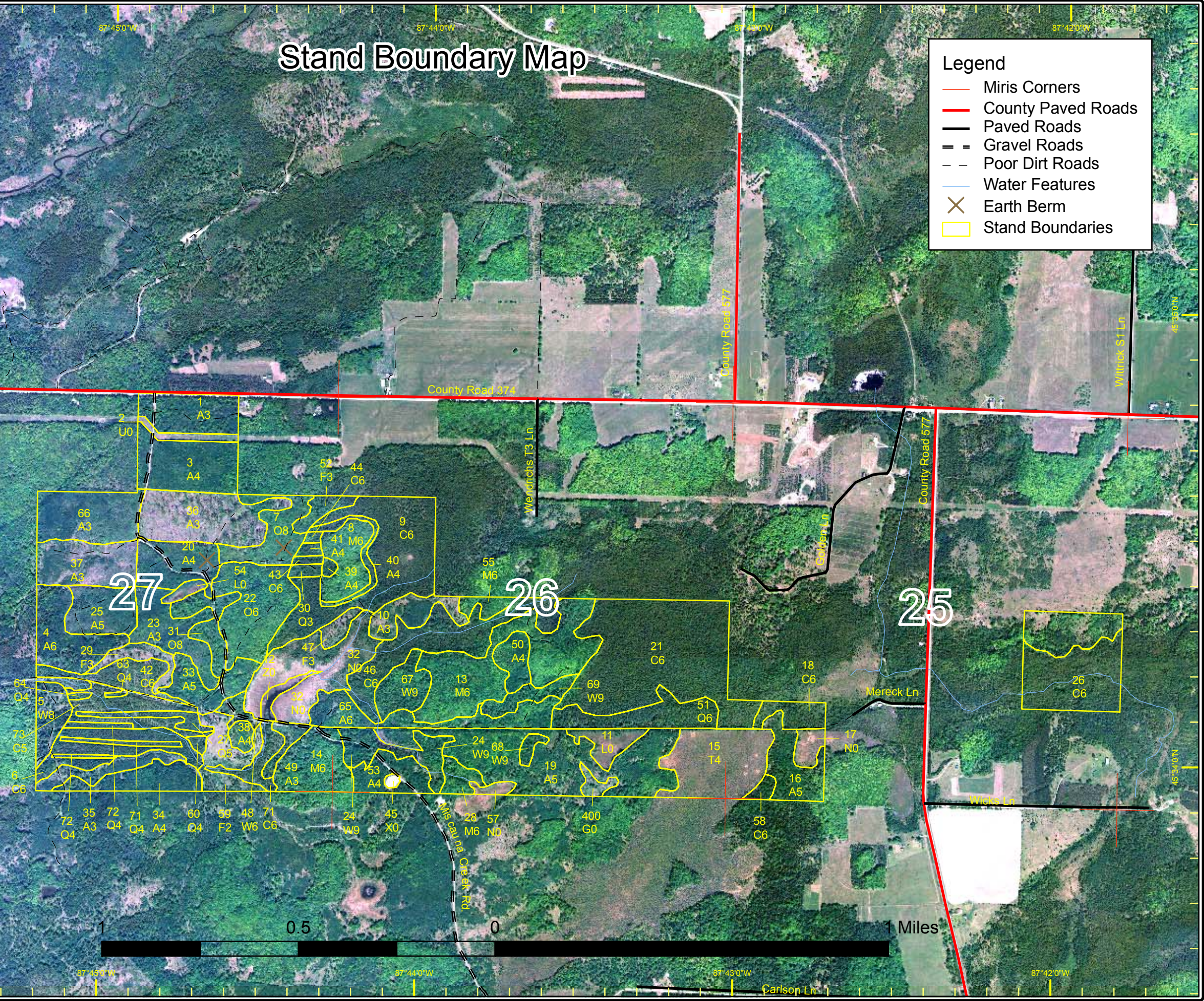
Compartment 10  
T37N, R28W, Sec. 25, 26, 27  
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- Legend**
- Miris Corners
  - County Paved Roads
  - Paved Roads
  - Gravel Roads
  - Poor Dirt Roads
  - Water Features
  - Earth Berm
  - Stand Boundaries

27 26 25

N






DNR  
DEPARTMENT OF NATURAL RESOURCES  
MICHIGAN

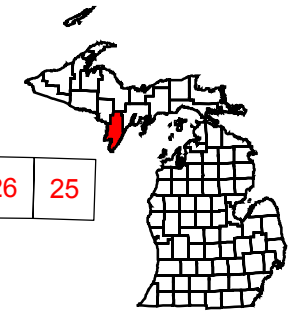


# Dedicated & Proposed Special Conservation Area Map



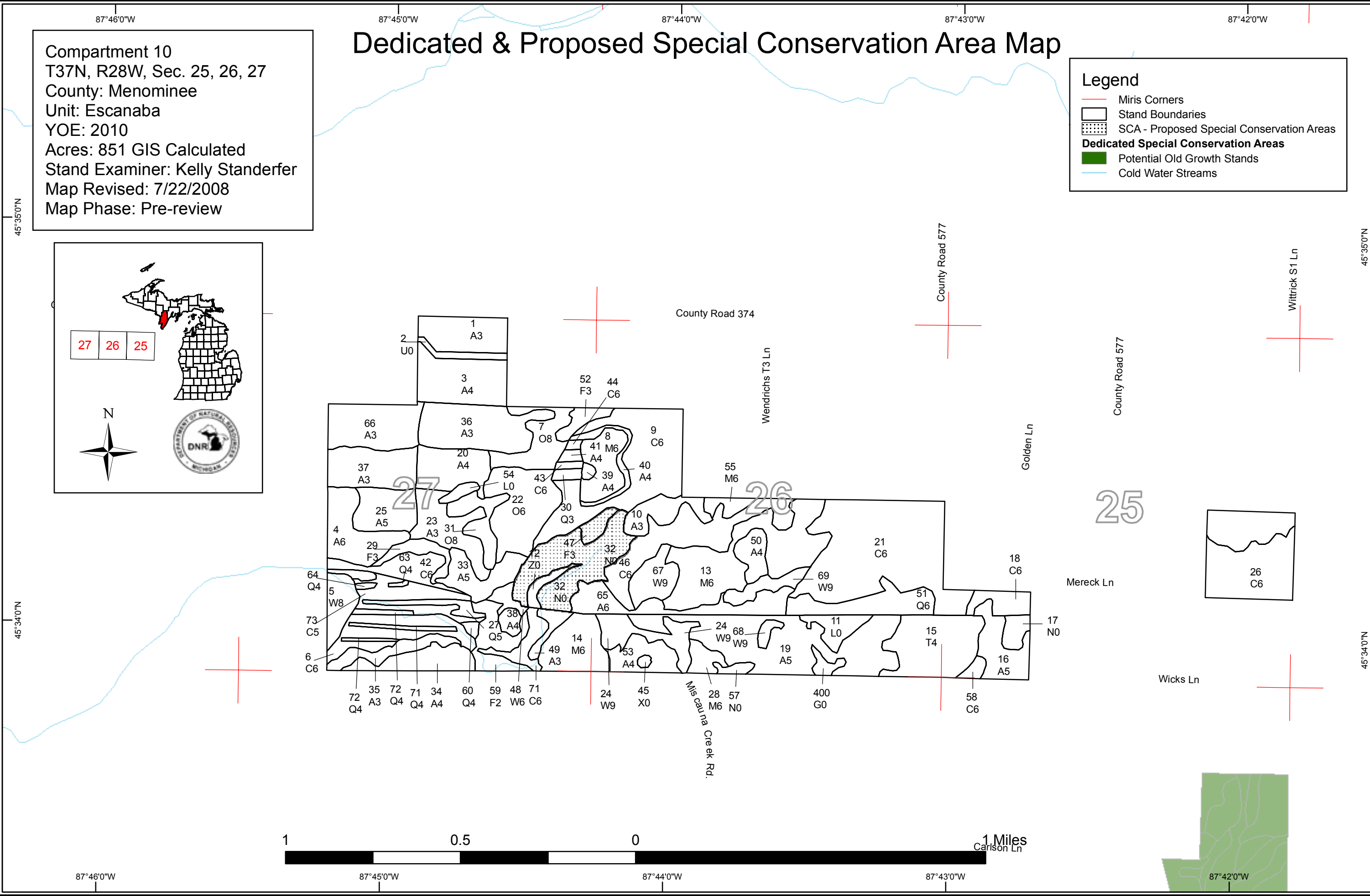
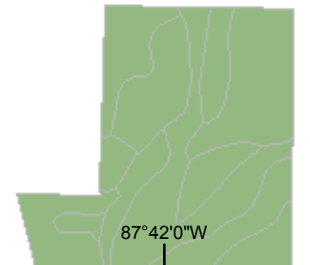
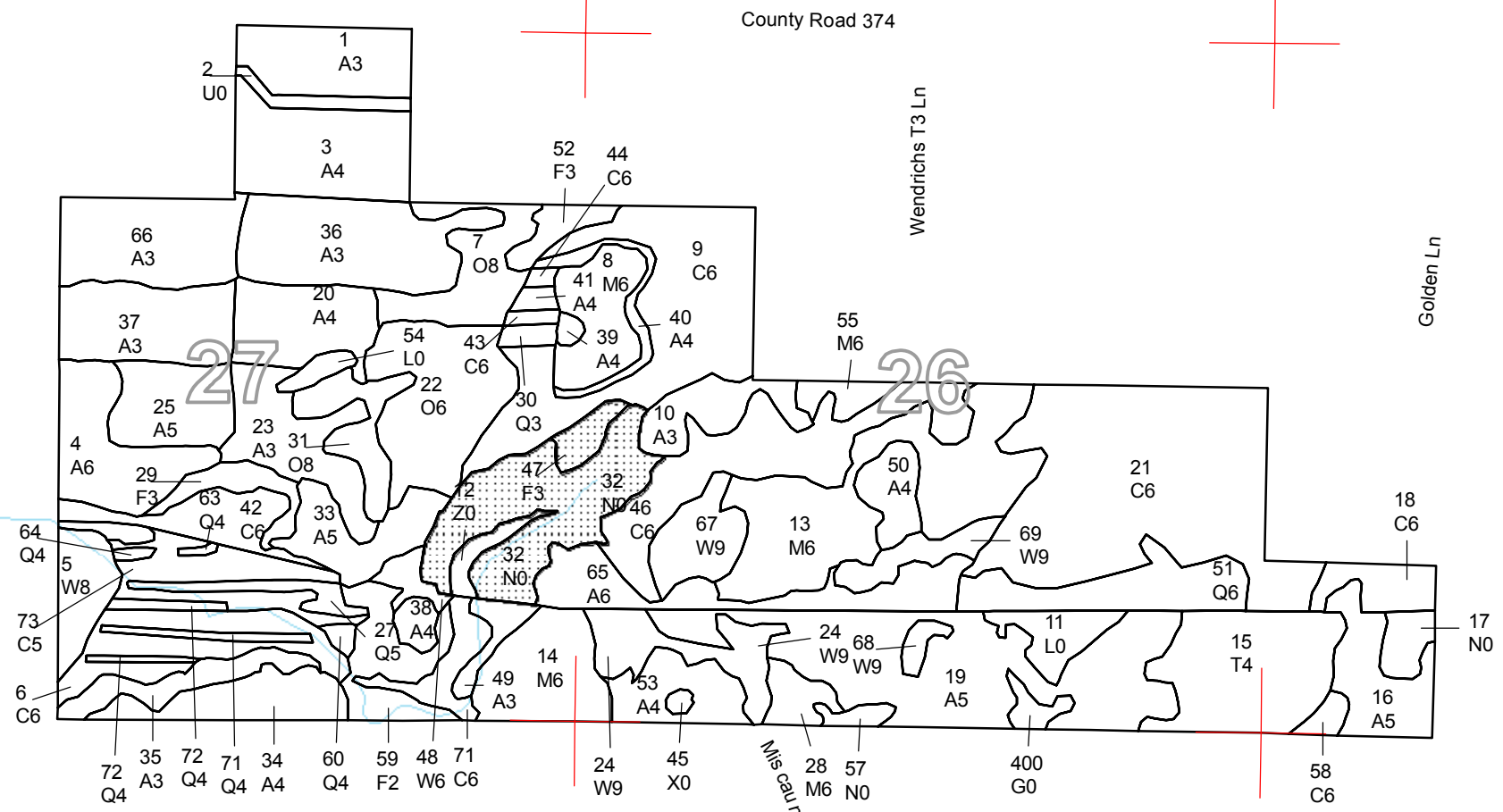
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 Map Phase: Pre-review

**Legend**

-  Miris Corners
-  Stand Boundaries
-  SCA - Proposed Special Conservation Areas
- Dedicated Special Conservation Areas**
-  Potential Old Growth Stands
-  Cold Water Streams



27 26 25



**DEDICATED CONSERVATION AREA DETAILS**

\* This is a list of Dedicated Biodiversity Areas for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to Dedicated Conservation Area Map for areas that the below listed Conservation Areas are located.

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.