

Marilla Too Project Treatment Type: Red Pine Thinning

Treatment Unit: 412-16A Acres: 17 Alternatives: 2, 3, 4 LSC: 500 ELTP: 231
Treatment Unit: 412-16B Acres: 14 Alternatives: 2, 3, 4 LSC: 500 ELTP: 230

TREATMENT UNIT DESCRIPTION

These red pine stands have a year of origin of 1957 and have never been thinned. This treatment would be a first thinning. These red pine units are located in MA 4.2G (Roaded Natural Sandy Plains and Hills) and within the Marilla Grouse Emphasis Area. Witala Road will be used for the access for these units, which is also a designated snowmobile trail.

RESOURCE PRESCRIPTION AND FACTS CODE(S) 4220

Silvicultural Prescription: Conduct even-aged management. Row thin and thin from below to basal area of 130-150 ft². Retain 25% of topwood less than 4” in diameter to maintain soil productivity, reduce soil compaction, and retain organic matter. Retain all snags over 5” dbh unless they are a safety hazard. Reserve a minimum of 4 mast/den trees per acre to maintain viable vertebrate populations, as identified in the Forest Plan, Table II-12 on page II-23. Retain native, mast-producing shrubs where possible.

Witala Road would be reconstructed to improve access to these units. Forest System road FR 8044 east of Unit 412/16B is currently showing open on HMNF’s Motor Vehicle Use Map; however, it has been closed years ago with an earthen berm. The MVUM would be changed to correct the status of this road.

RESOURCE CONCERNS AND MITIGATION

Concern: Conflict with snowmobile trail users along FR 8044 (Witala Road).

Mitigation: Prohibit hauling on snowmobile trail from December 1 to March 31. Post warning signs along trails during active logging operation.

Concern: Decreased visuals from timber harvest operation adjacent to trails.

Mitigation: Remove logging slash within 25’ of trails to reduce the effects on visual quality and the fire hazard.

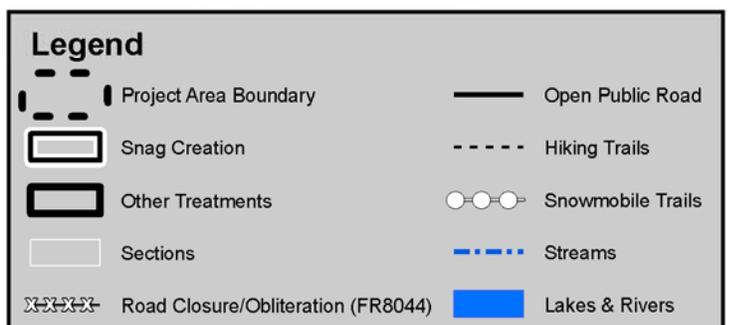
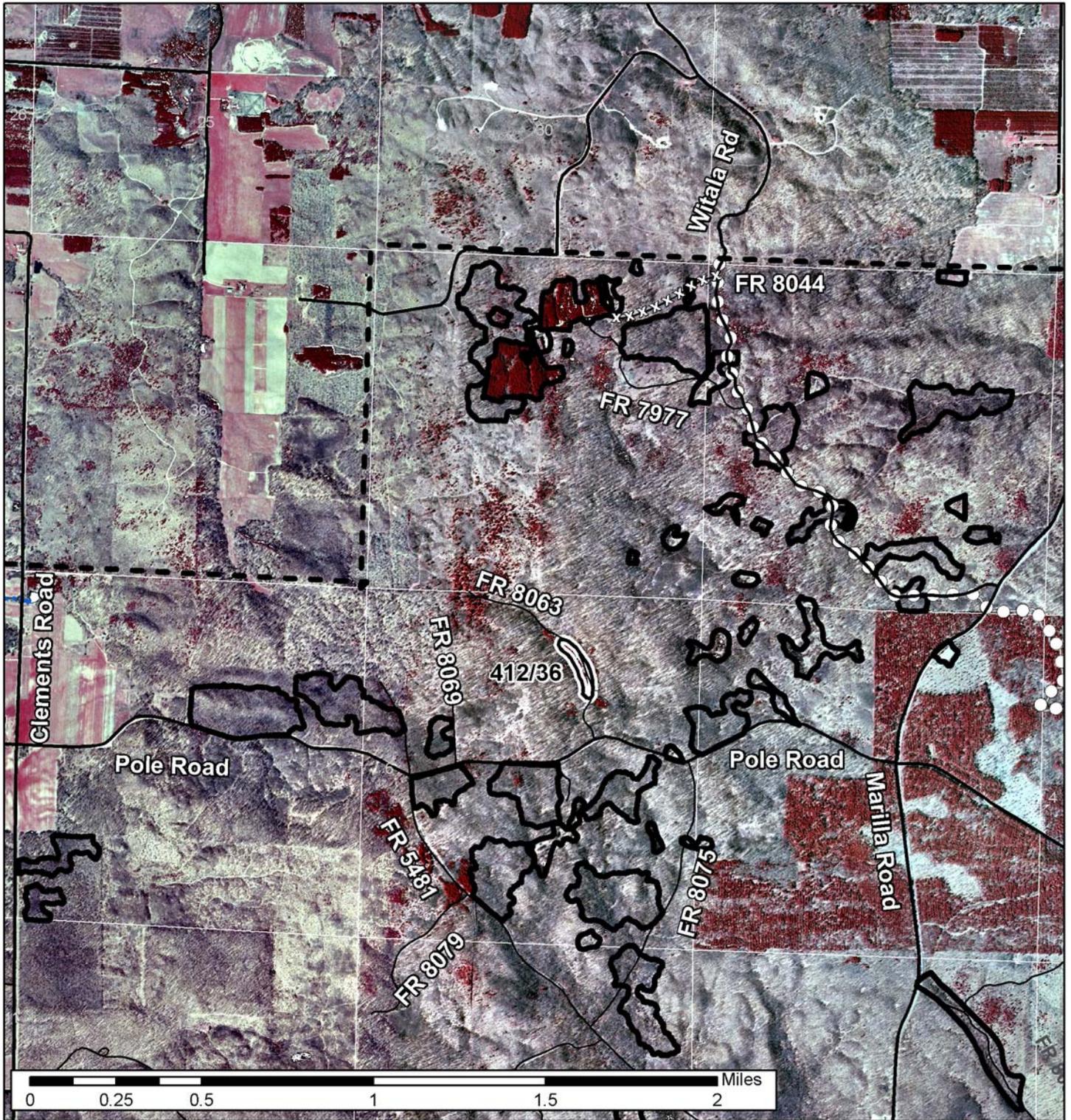
Concern: Presence of known cultural resource site in Unit 412/16-A.

Mitigation: Exclude ground disturbing activities up to a minimum of 30 meter buffer zone from established site boundary. No equipment will be allowed within site boundary. No scattering or piling of slash within site boundary.

Marilla Too Project Snag Creation

Treatment Unit:
412 / 36

Alternatives 2 and 4



Marilla Too Project Treatment Type: Snag Creation Alternative 2 and 4 Only
Treatment Unit: 412/36 Acres: 4 Alternatives: 2, 4 LSC: 500 ELTP: 240

TREATMENT UNIT DESCRIPTION

This small red pine unthinned uit has a year of origin of 1954. This red pine unit is located in MA 4.2G (Roaded Natural Sandy Plains and Hills) and within the Marilla Grouse Emphasis Area.

RESOURCE PRESCRIPTION AND FACTS CODE(S) 2510, 6213

Create about 4 snags per acre to provide and improve cavity nester habitat.

Invasive Plant Control Prescription:

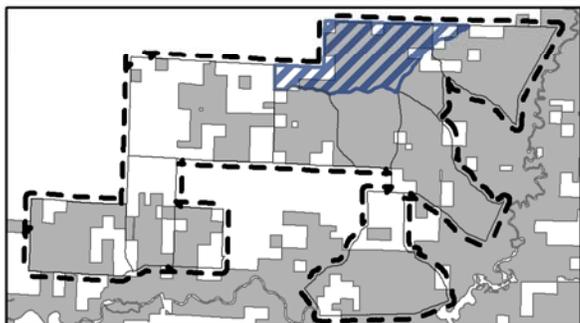
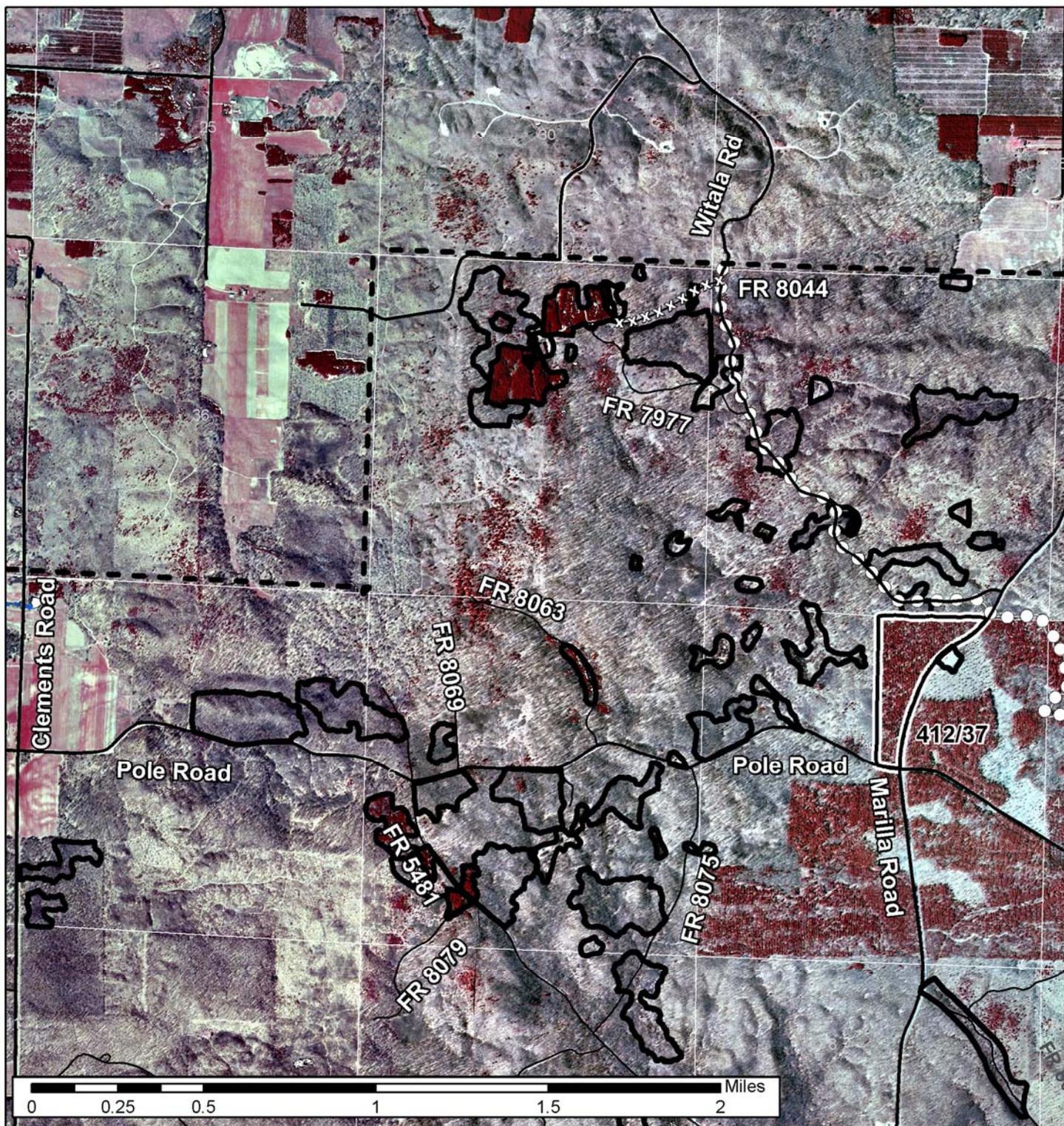
Alternatives 2, 4: Thistle in Unit 412/36: Treat with glyphosate.

Marilla Too Project

Overstory Removal - Red Pine

Treatment Unit:
412 / 37

Alternative 2



Legend

Project Area Boundary	Open Public Road
Overstory Removal - Red Pine	Hiking Trails
Other Treatments	Snowmobile Trails
Sections	Streams
Road Closure/Obliteration (FR8044)	Lakes & Rivers

Marilla Too Project Treatment Type: Red Pine Overstory Removal Alternative 2 Only

Treatment Unit: 412/37 Acres: 40 Alternative: 2 LSC: 500 ELTP: 231

TREATMENT UNIT DESCRIPTION

This red pine unit has a year of origin of 1937 and was previously thinned in the last 1990s. This red pine unit is located in MA 4.2G (Roaded Natural Sandy Plains and Hills) and within the Marilla Grouse Emphasis Area.

RESOURCE PRESCRIPTION AND FACTS CODE(S) 4143, 4493, 4341, 4381

Silvicultural Prescription: Convert from red pine to red pine/mixed oaks using overstory removal harvest treatment. Harvest operations would be prohibited from April 1 to September 30 to protect advanced regeneration. Retain topwood less than 4” in diameter to maintain soil productivity, reduce soil compaction, and retain organic matter. Retain all snags over 5” dbh unless they are a safety hazard. Retain native, mast-producing shrubs where possible. Reserve a minimum of 4 mast/den trees per acre to maintain viable vertebrate populations, as identified in the Forest Plan, Table II-12 on page II-23. Retain native, mast-producing shrubs where possible.

Reforestation: The unit would be treated using site preparation for natural regeneration, felling all stems between 1-5” dbh. If the regeneration is less than 60 percent of full stocking levels after three growing seasons of the completed harvest, the unit would be evaluated for reforestation needs. Only native species will be used in planting.

A temporary specified road would be constructed to access this unit and closed after harvest activities are completed.

RESOURCE CONCERNS AND MITIGATION

Concern: Decreased visuals from timber harvest operation adjacent to roads and private property.

Mitigation: Remove logging slash within 25’ of private property and roads to reduce the effects on visual quality and the fire hazard. Within the next 175’ of roads lop and scatter slash to lie within 18” of the ground.

Concern: Conflict with snowmobile trail along FR 8044 (Witala Road).

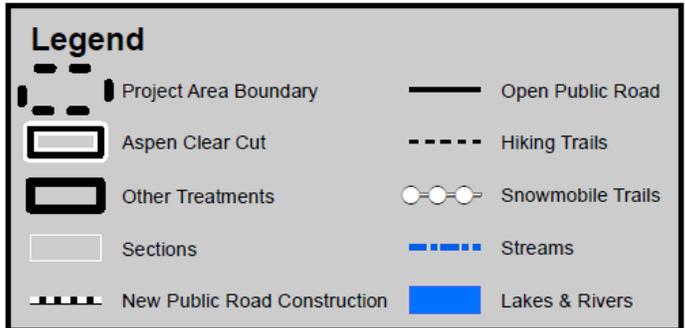
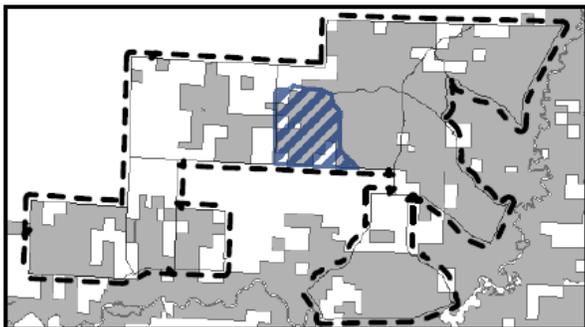
Mitigation: Prohibit hauling on snowmobile trail from December 1 to March 31. Post warning signs along trails during active logging operation.

Marilla Too Project

Clearcut - Aspen

Treatment Units:
413 / 5-A 413 / 5-B

Alternatives 2 and 4



Marilla Too Project Treatment Type: Aspen Clearcut Alternative 2 and 4 Only

Treatment Unit: 413-5A	Acres: 8	Alternatives: 2, 4	LSC: 500	ELTP: 235
Treatment Unit: 413-5B	Acres: 5	Alternatives: 2, 4	LSC: 500	ELTP: 235

TREATMENT UNIT DESCRIPTION

These units are hardwood units with aspen inclusions that have a year of origin of 1982. The aspen inclusions are proposed for clearcutting. These aspen units are located in MA 2.1 (Roaded Natural Rolling Plains and Morainal Hills) and within the Tippy Dam Management Zone (TMZ) area identified for protection of Indiana bat habitat.

RESOURCE PRESCRIPTION AND FACTS CODE(S) 2510, 4113, 4493, 4341, 4381, 6423

Silvicultural Prescription: Harvest and regenerate mature and over/mature aspen using the even/aged clearcut method. Retain topwood less than 4” in diameter to maintain soil productivity, reduce soil compaction, and retain organic matter. Retain all snags over 5” dbh unless they are a safety hazard. Retain or create an average of 9 suitable roost trees per acre if available. Retain native, mast/producing shrubs where possible. Prohibit clearcutting between April 1 and October 20 in order to promote regeneration, retain site nutrients, and protect bats.

A new Forest System specified road would be constructed to access these treatment units and remain open for public and administrative use.

Reforestation: The units would be treated using site preparation for natural regeneration, felling all stems between 1-5” dbh. If the regeneration is less than 60 percent of full stocking levels after three growing seasons of the completed harvest, the unit would be evaluated for reforestation needs. Only native species will be used in planting.

Invasive Plant Control Prescription:

Alternatives 2, 4: Autumn olive 413/5: Stump treatment with glyphosate.

RESOURCE CONCERNS AND MITIGATION

Concern: Protection of potential Indiana bats present during the swarming seasons within the TMZ and potential roosting habitat.

Mitigation: Harvesting would be prohibited from May 1 to October 20 to eliminate the possibility of impacting individual bats in roosts. Standing snags over 5” dbh would not be cut and/or removed unless considered a safety hazard. Retain or create an average of 9 suitable roost trees over 5” dbh per acre within the treated area if available.

Concern: Decreased visuals from timber harvest operation adjacent to roads and private property.

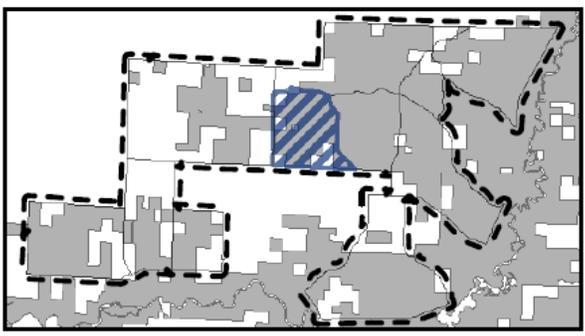
Mitigation: Remove logging slash within 25’ of private property and roads to reduce the effects on visual quality and the fire hazard.

Marilla Too Project

Red Pine Clearcut (Aspen Conversion)

Treatment Units:
 413 / 13 413 / 14 413 / 25

Alternative 2



Legend

Project Area Boundary	Open Public Road
Red Pine Clearcut	Hiking Trails
Other Treatments	Snowmobile Trails
Sections	Streams
New Public Road Construction	Lakes & Rivers

**Marilla Too Project Treatment Type: Red Pine/Hardwood Conversion to Aspen
Alternative 2 Only**

Treatment Unit: 413-13	Acres: 8	Alternative: 2	LSC: 500	ELTP: 235
Treatment Unit: 413-14	Acres: 3	Alternative: 2	LSC: 500	ELTP: 235
Treatment Unit: 413-25	Acres: 12	Alternative: 2	LSC: 500	ELTP: 231

TREATMENT UNIT DESCRIPTION

These three red pine/hardwood units have a year of origin between 1983 -1956 and are proposed for conversion to aspen or to create semi-open wildlife habitat. Unit 413-13 is an aspen unit with a pine component; Unit 413-14 is a hardwood unit with red pine and aspen inclusions; and Unit 413-25 is a red pine unit with an aspen component. These units are located in MA 2.1 (Roaded Natural Rolling Plains and Morainal Hills) and within the Tippy Dam – Tippy Management Zone (TMZ) area identified for protection of Indiana bat habitat.

RESOURCE PRESCRIPTION AND FACTS CODE(S) 4113, 4493, 4341, 4381, 6423

Silvicultural Prescription: Harvest red pine/hardwood using the even/aged clearcut method. Retain topwood less than 4” in diameter to maintain soil productivity, reduce soil compaction, and retain organic matter. Retain all snags over 5” dbh unless they are a safety hazard. Retain or create an average of 9 suitable roost trees per acre if available. Retain native, mast/producing shrubs where possible. Prohibit clearcutting between April 1 and October 20 in order to promote regeneration, retain site nutrients, and protect bats.

FR 5481 would be reconstructed to improve access to these units.

RESOURCE CONCERNS AND MITIGATION

Concern: Protection of potential Indiana bats present during the swarming seasons within the TMZ and potential roosting habitat.

Mitigation: Harvesting would be prohibited from May 1 to October 20 to eliminate the possibility of impacting individual bats in roosts. Standing snags over 5” dbh would not be cut and/or removed unless considered a safety hazard. Retain or create an average of 9 suitable roost trees over 5” dbh per acre within the treated area.

Concern: Decreased visuals from timber harvest operation adjacent to roads and private property.

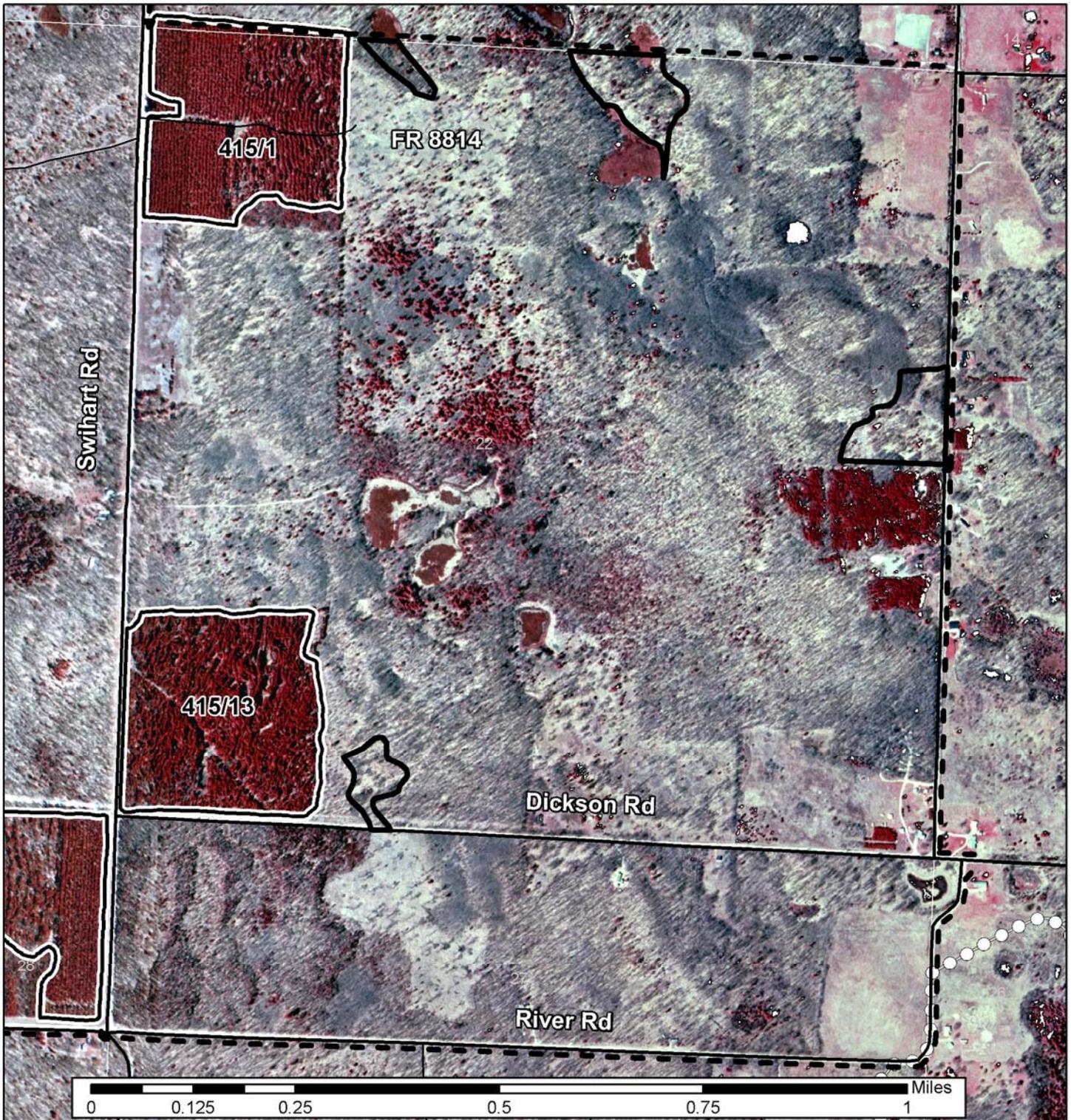
Mitigation: Remove logging slash within 25’ of private property and roads to reduce the effects on visual quality and the fire hazard.

Marilla Too Project

Thinning - Red Pine

Treatment Units:
415 / 1 415 / 13

Alternatives 2, 3, 4



Legend

Project Area Boundary	Open Public Road
Red Pine Thinning	Hiking Trails
Other Treatments	Snowmobile Trails
Sections	Streams
	Lakes & Rivers

