

Marilla Too Project Treatment Type: Aspen Clearcut

Treatment Unit: 411/2-A	Acres: 9	Alternatives: 2, 3, 4	LSC: 500	ELTP: 221/23
Treatment Unit: 411/2-B	Acres: 17	Alternatives: 2, 3, 4	LSC: 500	ELTP: 223/33
Treatment Unit: 411/2-C	Acres: 11	Alternatives: 2, 3, 4	LSC: 500	ELTP: 221/23/33
Treatment Unit: 411/2-D	Acres: 18	Alternatives: 2, 3, 4	LSC: 500	ELTP: 223/33/35
Treatment Unit: 411/2-E	Acres: 23	Alternatives: 2, 3, 4	LSC: 500	ELTP: 220/33/35
Treatment Unit: 411/12	Acres: 18	Alternatives: 2, 3, 4	LSC: 500	ELTP: 220/35
Treatment Unit: 411/21	Acres: 11	Alternatives: 2, 3, 4	LSC: 500	ELTP: 233/35

TREATMENT UNIT DESCRIPTION

These aspen units have a year of origin of between 1965 -1971. These aspen units are located in MA 4.2G (Roaded Natural Sandy Plains and Hills) and within the Marilla Grouse Emphasis Area. These units are located 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 in clumps. 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.

Reforestation: These 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.

FR 5481 accesses some of these treatment units and would be reconstructed to improve access.

Invasive Plant Control Prescription:

Alternative 2, 3, 4: Common burdock in Unit 411/21: Treat with glyphosate.

RESOURCE CONCERNS AND MITIGATION

Concern: Protection of potential Indiana bats present during the swarming and breeding season 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 per acre if available in clumps.

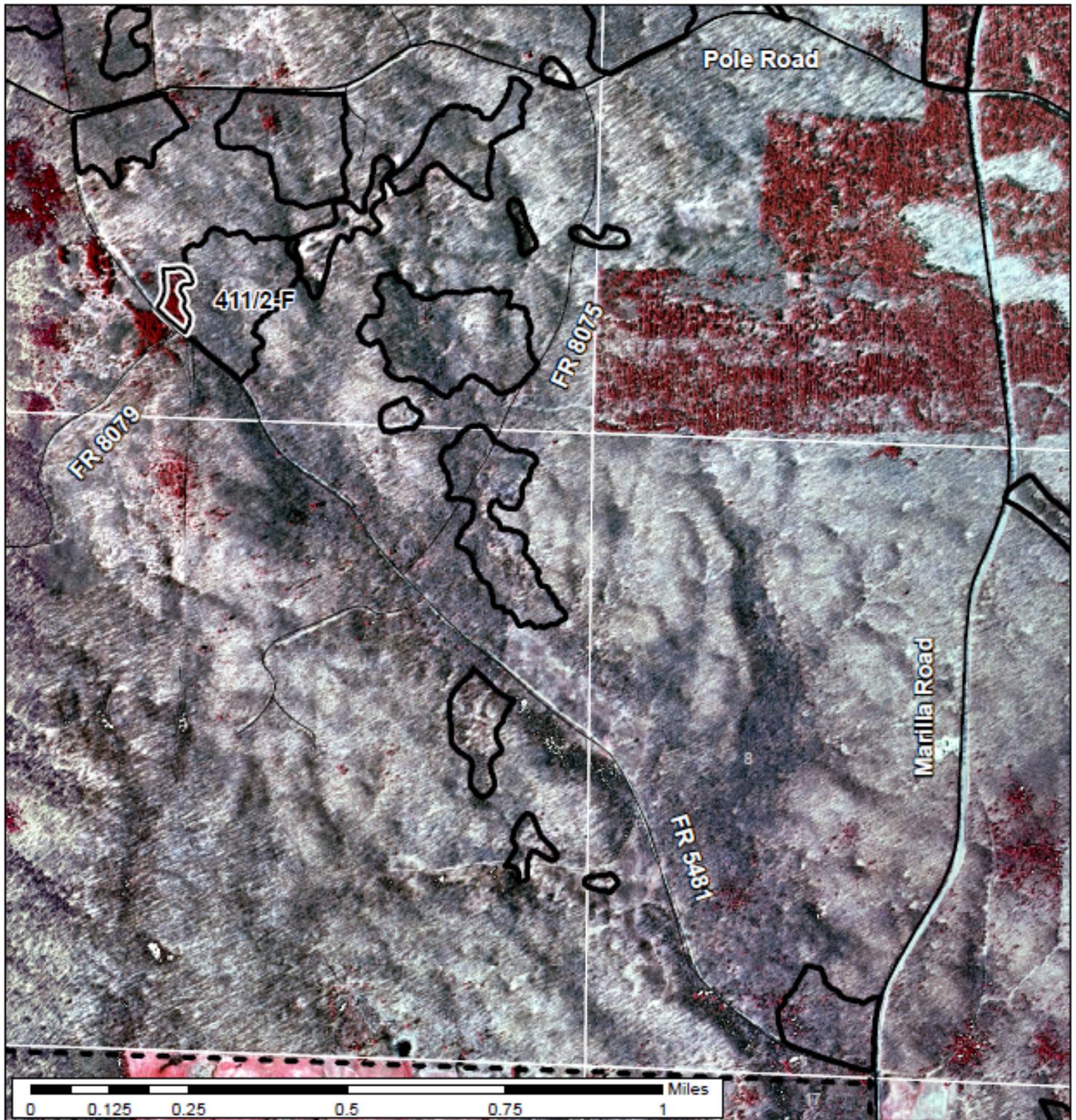
Concern: Decreased visuals from timber harvest operation adjacent to roads, trails, and private property.

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

Marilla Too Project
Red Pine Clearcut (Aspen Conversion)

Treatment Unit:
411 / 2-F

Alternative 2



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

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

Treatment Unit: 411/2-F Acres: 2 Alternative: 2 LSC: 500 ELTP: 221

TREATMENT UNIT DESCRIPTION

This red pine unit has a year of origin of 1965. This is a small red pine unit that is proposed for conversion to aspen or to create semi-open wildlife habitat. This red pine unit is 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) 4113, 4493, 4341, 4381

Silvicultural Prescription: Harvest red pine 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.

Reforestation: These 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.

FR 5481 would be reconstructed to improve access to this unit.

RESOURCE CONCERNS AND MITIGATION

Concern: Protection of potential Indiana bats present during the swarming and breeding season 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.

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

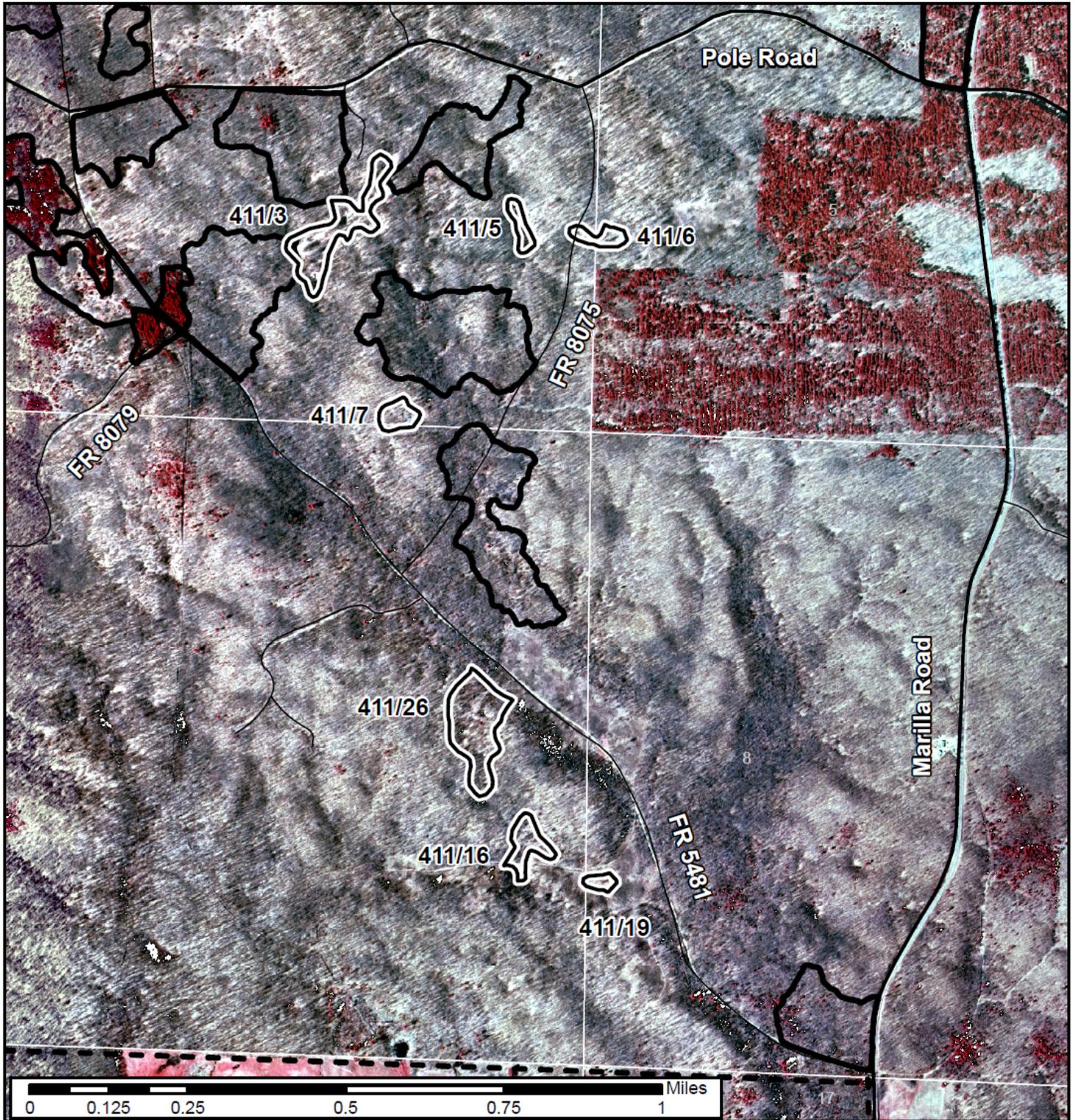
Mitigation: Remove logging slash within the trails and within 25' of private property and trails to reduce the effects on visual quality and reduce the fire hazard.

Marilla Too Project

Opening Maintenance

Treatment Units:			411 / 16
411 / 3	411 / 6	411 / 19	
411 / 5	411 / 7	411 / 26	

Alternatives 2, 3, 4



Legend

Project Area Boundary	Open Public Road
Opening Maintenance	Hiking Trails
Other Treatments	Snowmobile Trails
Sections	Streams
	Lakes & Rivers

Marilla Too Project Treatment Type: Opening Maintenance

Treatment Unit: 411/3	Acres: 6	Alternatives: 2, 3, 4	LSC: 200	ELTP: 221
Treatment Unit: 411/5	Acres: 1	Alternatives: 2, 3, 4	LSC: 200	ELTP: 233
Treatment Unit: 411/6	Acres: 1	Alternatives: 2, 3, 4	LSC: 200	ELTP: 220
Treatment Unit: 411/7	Acres: 2	Alternatives: 2, 3, 4	LSC: 200	ELTP: 220
Treatment Unit: 411/16	Acres: 2	Alternatives: 2, 3, 4	LSC: 200	ELTP: 221
Treatment Unit: 411/19	Acres: 1	Alternatives: 2, 3, 4	LSC: 200	ELTP: 235
Treatment Unit: 411/26	Acres: 7	Alternatives: 2, 3, 4	LSC: 200	ELTP: 220

TREATMENT UNIT DESCRIPTION

These upland opening units are located in MA 4.2G (Roaded Natural Sandy Plains and Hills) and within the Marilla Grouse Emphasis Area. These units are located within the Tippy Dam – Tippy Management Zone (TMZ) area identified for protection of Indiana bat habitat.

RESOURCE PRESCRIPTION AND FACTS CODE(S): 2510, 6102, 6131

Opening Prescription:

Unit 411/3 – Conduct opening maintenance by brushing. Protect spruce planting. Create lined waterhole.

Unit 411/5 – Conduct opening maintenance by brushing.

Unit 411/6 – Conduct opening maintenance by brushing. Protect spruce planting.

Unit 411/7 – Protect planted spruce.

Unit 411/16 – Conduct opening maintenance by brushing. Prune apple trees.

Unit 411/19 – Conduct opening maintenance by brushing.

Unit 411/26 – Conduct opening maintenance by brushing. Prune apple tree. Protect existing waterhole.

Invasive Plant Control Prescription:

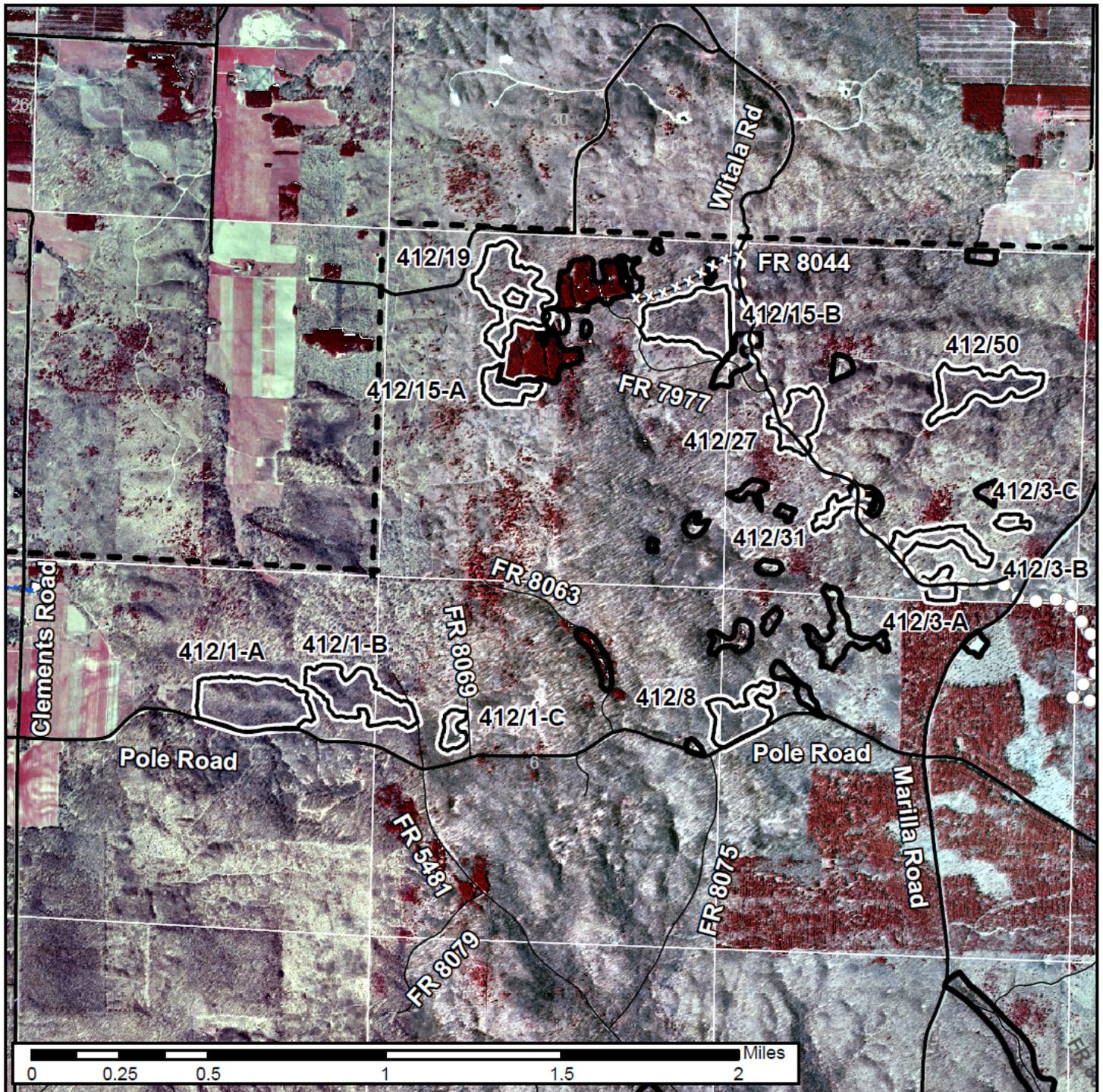
Alternative 2, 3, 4: Thistle in Unit 411/21: Treat with glyphosate.

Marilla Too Project

Clearcut - Aspen

Treatment Units:		
412 / 1-A	412 / 3-B	412 / 19
412 / 1-B	412 / 3-C	412 / 27
412 / 1-C	412 / 8	412 / 31
412 / 3-A	412 / 15-A	412 / 50

Alternatives 2, 3, 4



Legend

Project Area Boundary	Open Public Road
Aspen Clear Cut	Hiking Trails
Other Treatments	Snowmobile Trails
Sections	Streams
Road Closure/Obliteration (FR8044)	Lakes & Rivers

Marilla Too Project	Treatment Type: Aspen Clearcut			
Treatment Unit: 412/1-A	Acres: 27	Alternatives: 2, 3, 4	LSC: 500	ELTP: 231
Treatment Unit: 412/1-B	Acres: 19	Alternatives: 2, 3, 4	LSC: 500	ELTP: 231
Treatment Unit: 412/1-C	Acres: 4	Alternatives: 2, 3, 4	LSC: 500	ELTP: 231/35
Treatment Unit: 412/3-A	Acres: 4	Alternatives: 2, 3, 4	LSC: 500	ELTP: 231
Treatment Unit: 412/3-B	Acres: 9	Alternatives: 2, 3, 4	LSC: 500	ELTP: 231
Treatment Unit: 412/3-C	Acres: 2	Alternatives: 2, 3, 4	LSC: 500	ELTP: 231
Treatment Unit: 412/8	Acres: 12	Alternatives: 2, 3, 4	LSC: 500	ELTP: 223
Treatment Unit: 412/15-A	Acres: 7	Alternatives: 2, 3, 4	LSC: 500	ELTP: 231
Treatment Unit: 412/15-B	Acres: 23	Alternatives: 2, 3, 4	LSC: 500	ELTP: 235
Treatment Unit: 412/19	Acres: 21	Alternatives: 2, 3, 4	LSC: 500	ELTP: 230/31
Treatment Unit: 412/27	Acres: 11	Alternatives: 2, 3, 4	LSC: 500	ELTP: 231
Treatment Unit: 412/31	Acres: 5	Alternatives: 2, 3, 4	LSC: 500	ELTP: 230
Treatment Unit: 412/50	Acres: 16	Alternatives: 2, 3, 4	LSC: 500	ELTP: 231/33

TREATMENT UNIT DESCRIPTION

These aspen units have a year of origin between 1955-1964. Portions of Stand Unit/15 have a 1999 year of origin because areas of this larger stand have previously been clearcut. These aspen units are located in MA 4.2G (Roaded Natural Sandy Plains and Hills) and within the Marilla Grouse Emphasis Area. Witala Road and Pole Road would be used to access a majority of these units and reconstructed to improve timber harvest access. Witala Road is also a designated snowmobile trail.

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 native, mast/producing shrubs where possible. Prohibit clearcutting between April 1 and September 30 in these units to promote regeneration and retain site nutrients.

Opening Unit 412/7 may be used for a landing for Aspen Clearcut Unit 412/8. Rehabilitate landing after timber harvest is completed. A temporary specified road would be constructed to access Units 412/3A and closed after harvest activities are completed.

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:

Alternative 2 and 4: Autumn olive control in Unit 412/1, 412/3, 412/39, 412/50: Stump treat with glyphosate. Alternative 2, 3, 4: Thistle in Unit 412/15 and 412/50; Wild parsley in Unit 412/50; Treat with glyphosate.

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 roads, trails, and private property.

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

Concern: Presence of known cultural resource site in Unit 412/8 (and adjacent stand in 412/7), Unit 412/19, and Stand 412/42 which is adjacent to Unit 412/3-A and 412/3-B.

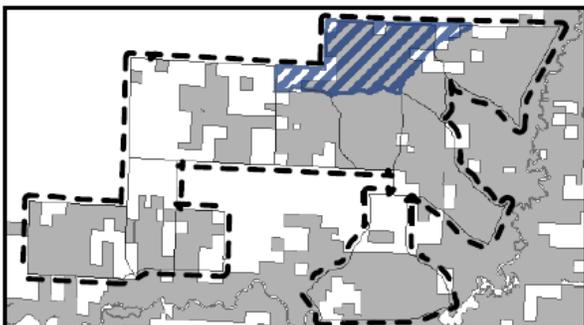
Mitigation: Exclude ground disturbing activities up to a minimum of 30 meter buffer zone from established site boundary. No equipment will be allowed within site boundary. No scattering or piling of slash within site boundary.

Marilla Too Project

Opening Maintenance

Treatment Units:			
412 / 7	412 / 17	412 / 25	412 / 35
412 / 9	412 / 18	412 / 29	412 / 39
412 / 11	412 / 20	412 / 30	412 / 45
412 / 12	412 / 21	412 / 33	412 / 47
412 / 14	412 / 22	412 / 34	412 / 49

Alternatives 2, 3, 4



Legend

Project Area Boundary	Open Public Road
Opening Maintenance	Hiking Trails
Other Treatments	Snowmobile Trails
Sections	Streams
Road Closure/Obliteration (FR8044)	Lakes & Rivers

Marilla Too Project Treatment Type: Opening Maintenance

Treatment Unit: 412/7	Acres: 1	Alternatives: 2, 3, 4	LSC: 200	ELTP: 231
Treatment Unit: 412/9	Acres: 4	Alternatives: 2, 3, 4	LSC: 200	ELTP: 223
Treatment Unit: 412/11	Acres: 2	Alternatives: 2, 3, 4	LSC: 200	ELTP: 230
Treatment Unit: 412/12	Acres: 1	Alternatives: 2, 3, 4	LSC: 200	ELTP: 231
Treatment Unit: 412/14	Acres: 2	Alternatives: 2, 3, 4	LSC: 200	ELTP: 235
Treatment Unit: 412/17	Acres: 3	Alternatives: 2, 3, 4	LSC: 200	ELTP: 231
Treatment Unit: 412/18	Acres: 1	Alternatives: 2, 3, 4	LSC: 200	ELTP: 231
Treatment Unit: 412/20	Acres: 3	Alternatives: 2, 3, 4	LSC: 200	ELTP: 230
Treatment Unit: 412/21	Acres: 1	Alternatives: 2, 3, 4	LSC: 200	ELTP: 230
Treatment Unit: 412/22	Acres: 1	Alternatives: 2, 3, 4	LSC: 200	ELTP: 230
Treatment Unit: 412/25	Acres: 6	Alternatives: 2, 3, 4	LSC: 200	ELTP: 233
Treatment Unit: 412/29	Acres: 2	Alternatives: 2, 3, 4	LSC: 200	ELTP: 230
Treatment Unit: 412/30	Acres: 1	Alternatives: 2, 3, 4	LSC: 200	ELTP: 230
Treatment Unit: 412/33	Acres: 1	Alternatives: 2, 3, 4	LSC: 200	ELTP: 223
Treatment Unit: 412/34	Acres: 1	Alternatives: 2, 3, 4	LSC: 200	ELTP: 223
Treatment Unit: 412/35	Acres: 3	Alternatives: 2, 3, 4	LSC: 200	ELTP: 221
Treatment Unit: 412/39	Acres: 10	Alternatives: 2, 3, 4	LSC: 200	ELTP: 220
Treatment Unit: 412/45	Acres: 1	Alternatives: 2, 3, 4	LSC: 200	ELTP: 231
Treatment Unit: 412/47	Acres: 2	Alternatives: 2, 3, 4	LSC: 200	ELTP: 230
Treatment Unit: 412/49	Acres: 2	Alternatives: 2, 3, 4	LSC: 200	ELTP: 233

TREATMENT UNIT DESCRIPTION

These opening units are located in MA 4.2G (Roaded Natural Sandy Plains and Hills) and within the Marilla Grouse Emphasis Area.

RESOURCE PRESCRIPTION AND FACTS CODE(S): 6080, 6102, 6131

Opening Prescription:

In all Units: Conduct opening maintenance by brushing. In addition, the following activities are proposed:

Unit 412/7 – Could be used for a landing for Aspen Clearcut Unit 412/8. Rehabilitate landing after timber harvest is completed.

Unit 412/17 – Create brush piles. Protect spruce planting.

Unit 412/20 – Construct a lined waterhole. Prune apple tree.

Unit 412/25 – Plant thornapple along edges. Protect spruce planting. This opening would be used as a landing and rehabilitated after harvest operations are completed.

Unit 412/29 – Plant thornapple along edges.

Unit 412/49 – Construct waterhole in south end. Protect spruce planting.

Invasive Plant Control Prescription:

Alternative 2 and 4: Autumn olive control in Unit 412/18, 412/30, 412/35, 412/50: Stump treat with glyphosate. Alternative 2, 3, 4: Bull thistle in Unit 412/34 and 412/39; Treat with glyphosate.

Alternative 2 and 4: Scots pine in Unit 412/14; Mechanical removal.

RESOURCE CONCERNS AND MITIGATION

Concern: Presence of known cultural resource site in Unit 412/47 (including adjacent stand in 412/46).

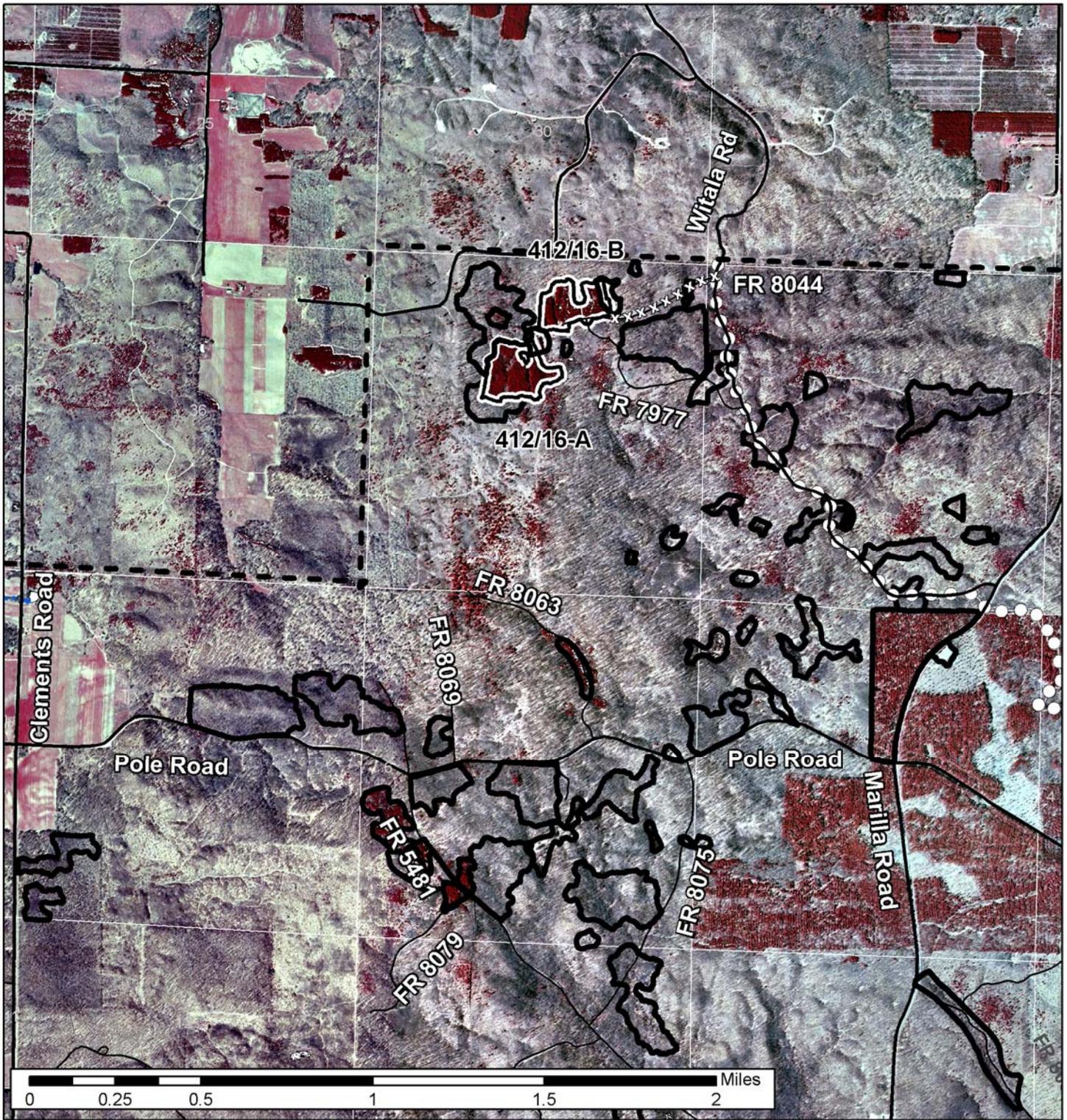
Mitigation: Exclude ground disturbing activities up to a minimum of 30 meter buffer zone from established site boundary. No equipment will be allowed within site boundary. No scattering or piling of slash within site boundary.

Marilla Too Project

Thinning - Red Pine

Treatment Units:
412/16-A 412/16-B

Alternative 2, 3, 4



Legend

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

