FOREST SERVICE SUPPLEMENTAL SPECIFICATION / DESCRIPTION OF WORK

STEWARDSHIP REFORESTATION - TIMBER STAND IMPROVEMENT

CHIPPEWA NATIONAL FOREST

Reforestation Timber Stand Improvement Project

C.1 -SCOPE OF WORK

The service work covered in this contract is for the furnishing of all labor, equipment, supervision, transportation, operating supplies and incidentals, and performs all work necessary to accomplish service work including but not limited to: individual crop tree release, in compliance with the terms, specifications, conditions and provisions of this contract.

C.2 - DESCRIPTION AND LOCATION

All areas are located in Cass and Itasca Counties within the boundaries of the Chippewa National Forest in north central Minnesota. All of the stands to be treated are in an area east of Lake Winnibigoshish and west of Deer River in areas that were affected by the 2012 blow down event. Please see the attached maps for specific stand locations.

C.3 - TECHNICAL SPECIFICATION

Individual Release of preferred trees

Control all vegetation in a three-foot diameter around each preferred tree within the stand. A preferred tree is a well formed seedling/sapling of a desired species as defined by the Contracting officer Representative (COR) on the Site Specific Instructions Table and also referred to as a crop tree.

A: In an area 1.5 feet around each crop tree, cut **all** competing vegetation within four inches of the ground: this incudes but it is not limited to all herbs, grasses, shrubs and trees.

B: In the area 1.5 feet to 3 feet around the crop tree cut, aspen, shrubs and raspberry, avoid cutting oak, tamarack, birch, fruiting shrubs, maple, basswood and other conifer unless they are directly competing with the crop tree.

All vegetation overtopping the crop tree shall be removed so that the seedling will be free to grow. When two crop trees are competing in the same 3 foot area species, preference shall be

given to the species determined by the COR on the Site Specific Instructions Table. If not specified, crop tree preference will be: white pine, red pine, jack pine, tamarack, spruce, balsam fir, oak, birch, basswood and sugar maple. No crop trees should be damaged while conducting release operations unless they are directly competing and then the less preferred crop tree shall be cut. Crop tree species is determined by the COR and listed on the Site Specific Instructions Table, this may include aspen in some stands.

Most sites are less than 5 years old however some sites have heavy competition of deciduous trees and brush; alder, hazel, aspen, willow and raspberry. It is strongly recommended to visit and review all sites before submitting any bid.

Suggested equipment to be furnished by the contractor for hand cutting tools is a motor driven brush saw. The contractor will assume all cost of maintenance and operation of equipment including items such as fuel, oil, grease, repairs and miscellaneous operating supplies. Contractor shall assume all risk of loss or damage to his equipment for the duration of contract. Stump height shall be no more than four inches as measured from the highest adjacent point of ground. All existing survey markers, bearing trees, etc., shall be protected. No roads shown on the TSI area map shall be blocked by slash or debris resulting from contractor's operations. No cut stems may end up on top of crop trees being released.

C.4 - PERIOD OF PERFORMANCE

Operating Season: Work on release items can be performed between May 15th 2016 to July 15th 2016 and between May 15th 2017 to July 15th 2017.
Operating Term: All release work must be completed by July 15th 2017.

SCHEDULE OF ITEMS
--SUPPLIES OR SERVICES AND PRICES/COSTS

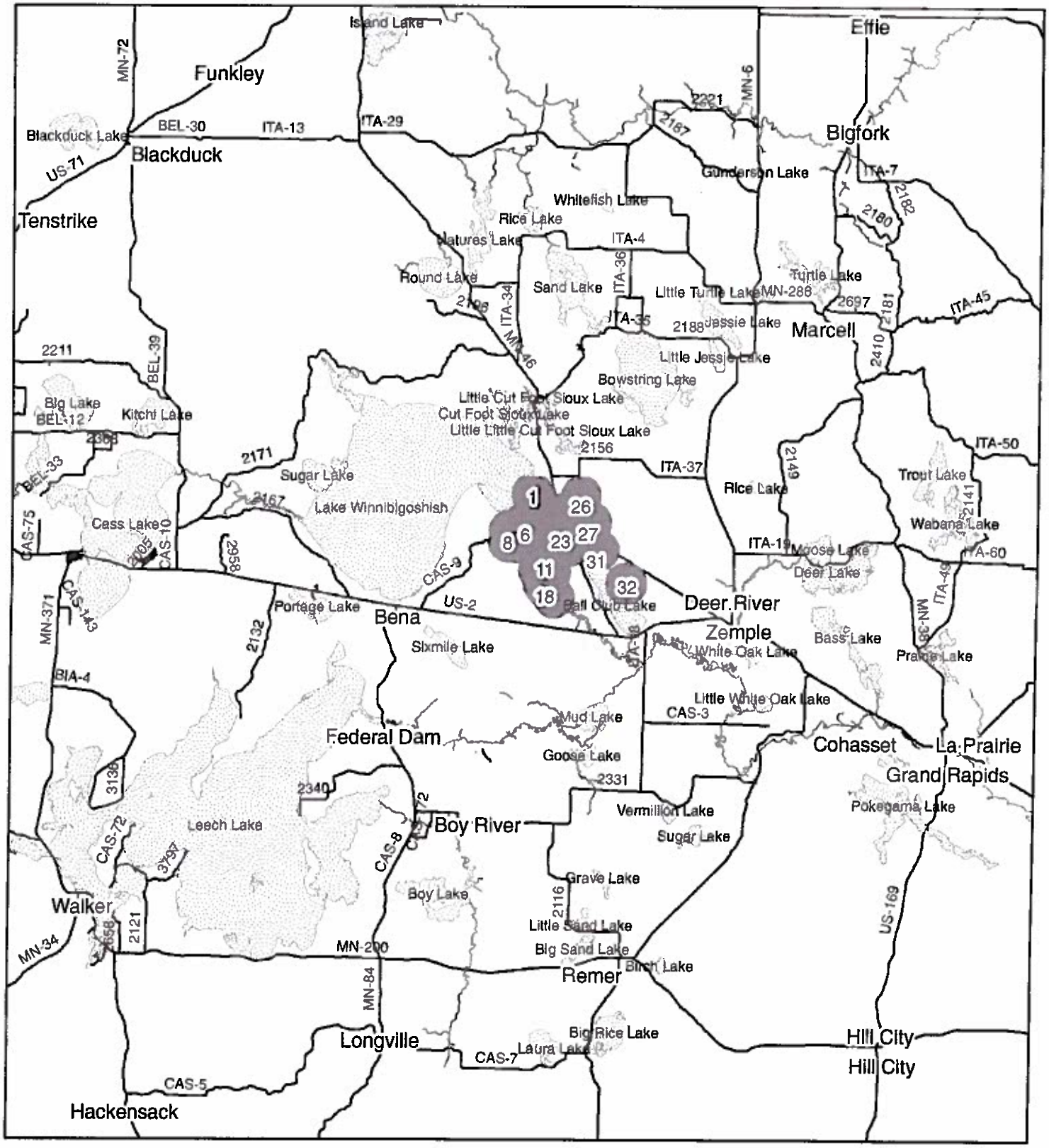
Table 1. Bid response to be completed by bidder

Bid Item	Description	Acres	Price/ Acre	Total Price
1	Individual Release of Preferred Trees	930		
	Grand Total			

Table 2. Site specific instructions table

Contract #	Legal Description	Acres	Preferred Trees
01	T146 N R 27 W Sec 25	43	Not specified refer to the contract.
02	T146 N R 26 W Sec 26	19	Not specified refer to the contract.
03	T145 N R 27 W Sec 2	10	Not specified refer to the contract.
04	T146 N R 27 W Sec 36	35	Not specified refer to the contract.
05	T145 N R 27 W Sec 1	7	Not specified refer to the contract.
06	T145 N R 27 W Sec 1	85	Not specified refer to the contract.
07	T145 N R 27 W Sec 2	26	Not specified refer to the contract.
08	T145 N R 27 W Sec 2	38	Not specified refer to the contract.
09	T145 N R 27 W Sec 2	7	Not specified refer to the contract.
10	T145 N R 26 W Sec 7	30	Not specified refer to the contract.
11	T145 N R 26 W Sec 7&18	44	Not specified refer to the contract.
12	T145 N R 27 W Sec 13	5	Not specified refer to the contract.
13	T145 N R 26 W Sec 18	18	Not specified refer to the contract.
14	T145 N R 26 W Sec 18	5	Not specified refer to the contract.
15	T145 N R 26 W Sec 18	9	Not specified refer to the contract.
16	T145 N R 26 W Sec 18	4	Not specified refer to the contract.
17	T145 N R 26 W Sec 18	15	Not specified refer to the contract.
18	T145 N R 26 W Sec 19	27	Not specified refer to the contract.
19	T145 N R 26 W Sec 19	14	Not specified refer to the contract.
20	T145 N R 26 W Sec 30	13	Not specified refer to the contract.
21	T146 N R 26 W Sec 32	41	Not specified refer to the contract.
22	T145 N R 26 W Sec 5	27	Not specified refer to the contract.
23	T145 N R 26 W Sec 5	61	Not specified refer to the contract.
24	T145 N R 26 W Sec 5	29	Not specified refer to the contract.
25	T145 N R 26 W Sec 8	5	Not specified refer to the contract.
26	T146 N R 26 W Sec 33	59	Not specified refer to the contract.
27	T145 N R 26 W Sec 4	150	Not specified refer to the contract.
28	T145 N R 26 W Sec 4	4	Not specified refer to the contract.
29	T145 N R 26 W Sec 4	12	Not specified refer to the contract.
30	T145 N R 26 W Sec 4	14	Not specified refer to the contract.
31	T145 N R 26 W Sec 10	40	Not specified refer to the contract.
32	T145 N R 2 W Sec 23	34	Not specified refer to the contract.
	Total	930	

Chippewa National Forest Cutty Stewardship Individual Tree Release Vicinity Map



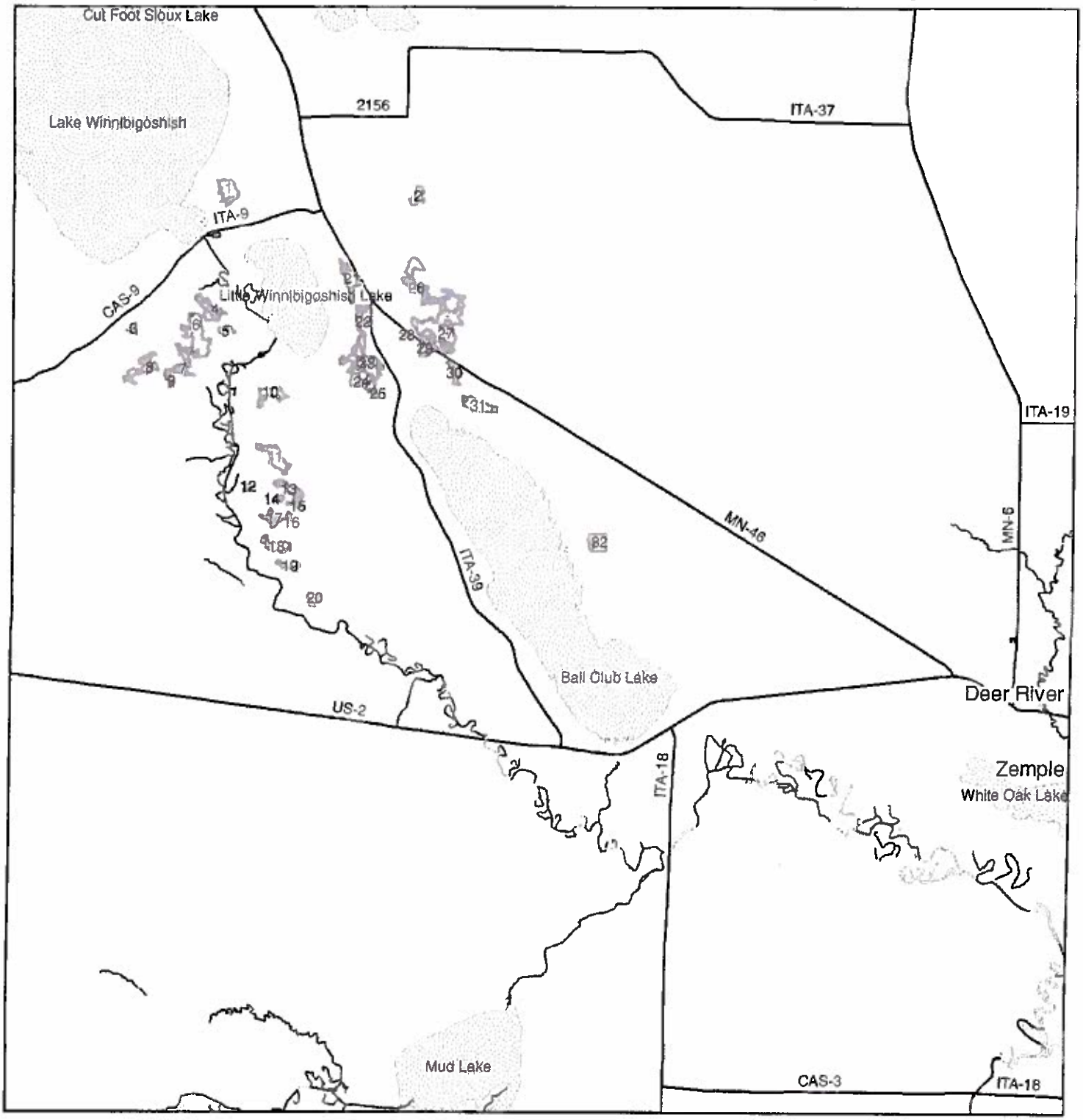
Legend

- Stand Boundary
- LakePond
- Roads

0 4.25 8.5 17 Miles

N W E S

Chippewa National Forest Cutty Stewardship
Individual Tree Release Vicinity Map



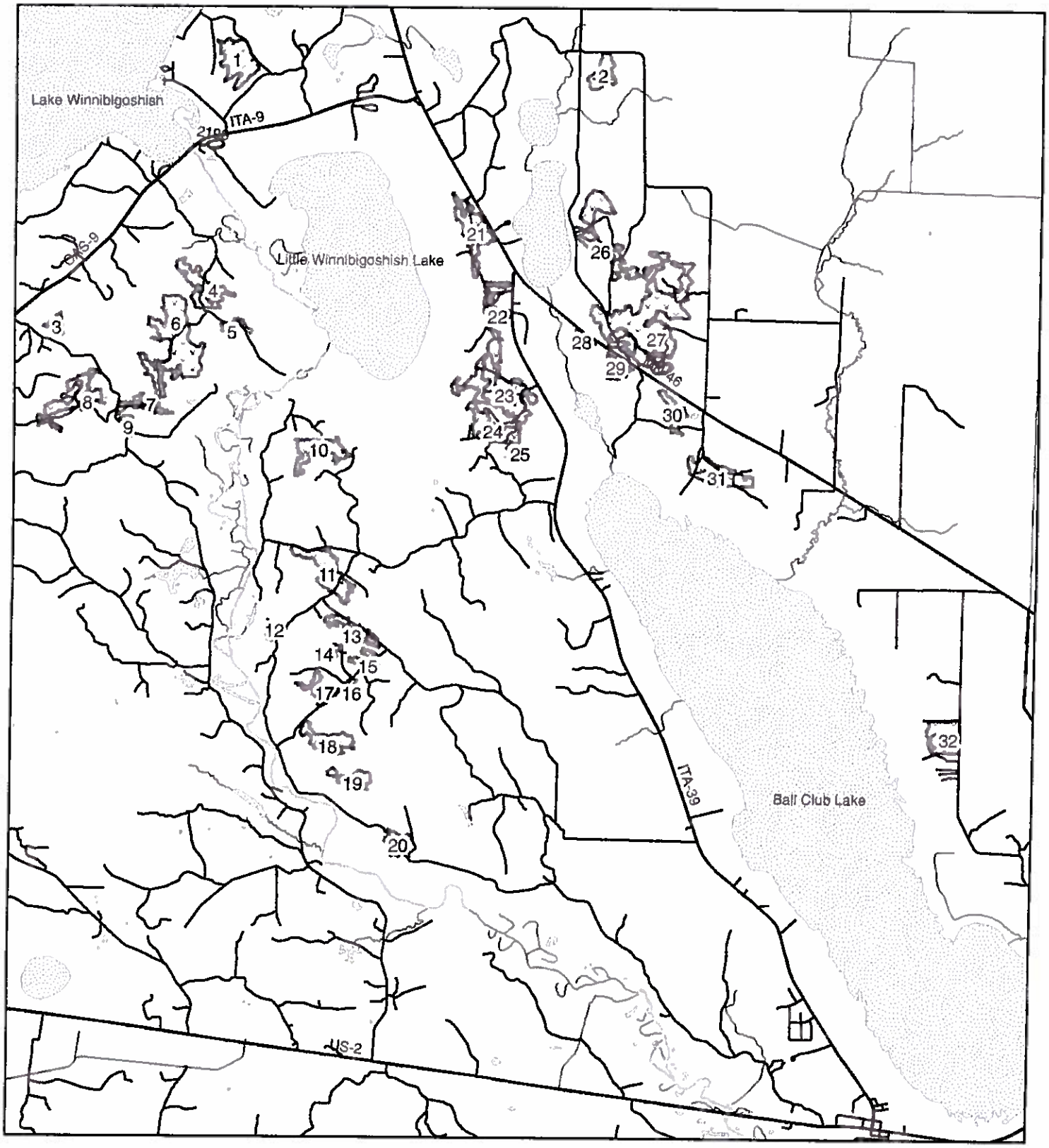
Legend

- Stand Boundary
- LakePond
- Roads

0 1 2 4 Miles

N W E S

Chippewa National Forest Cutty Stewardship
Individual Tree Release Stands 1-32



Legend

Stand Boundary

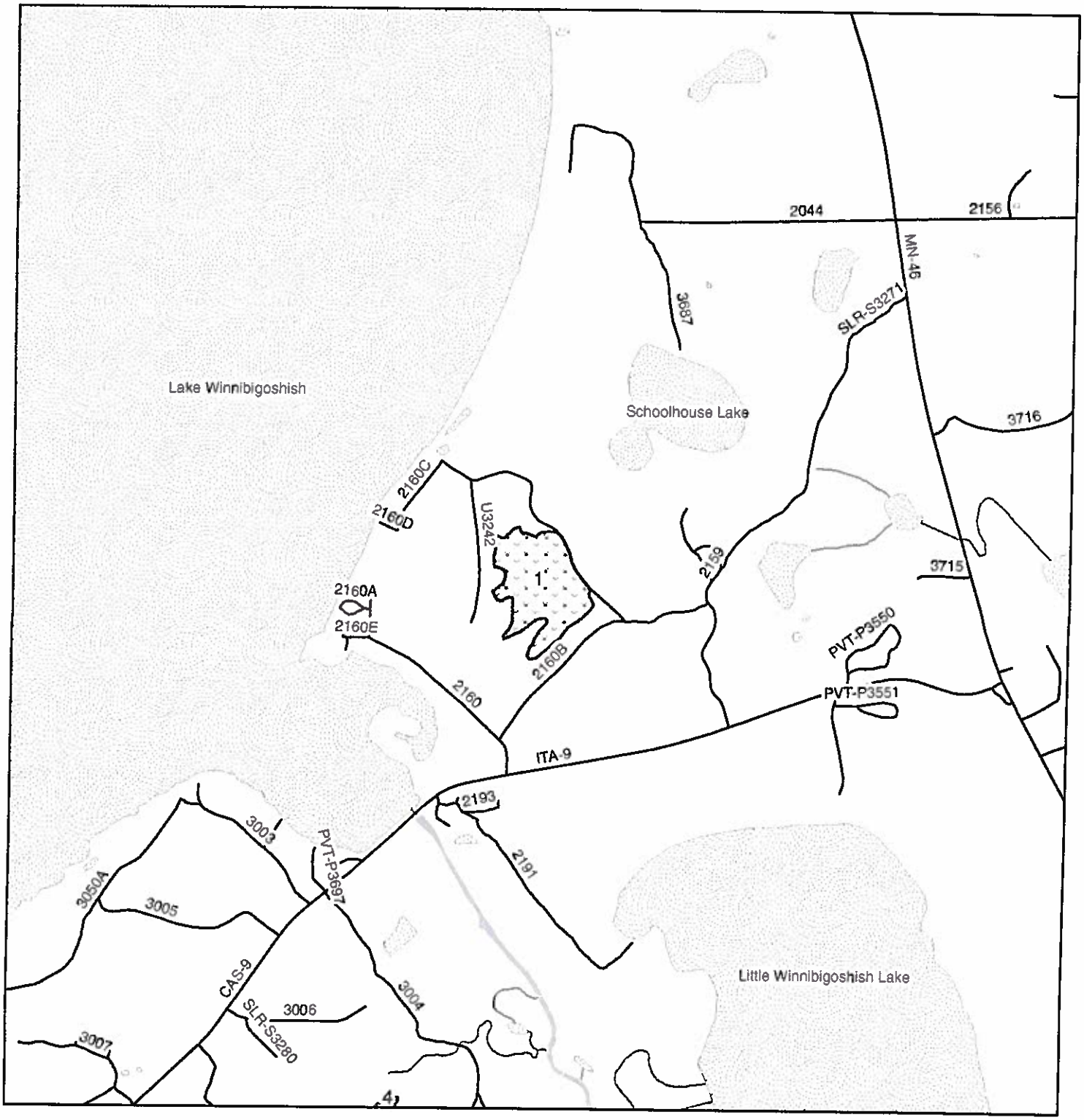
LakePond

Roads

0 0.5 1 2 Miles

N W E S

Chippewa National Forest Cutty Stewardship
Individual Tree Release Stand 1



Legend

Stand Boundary

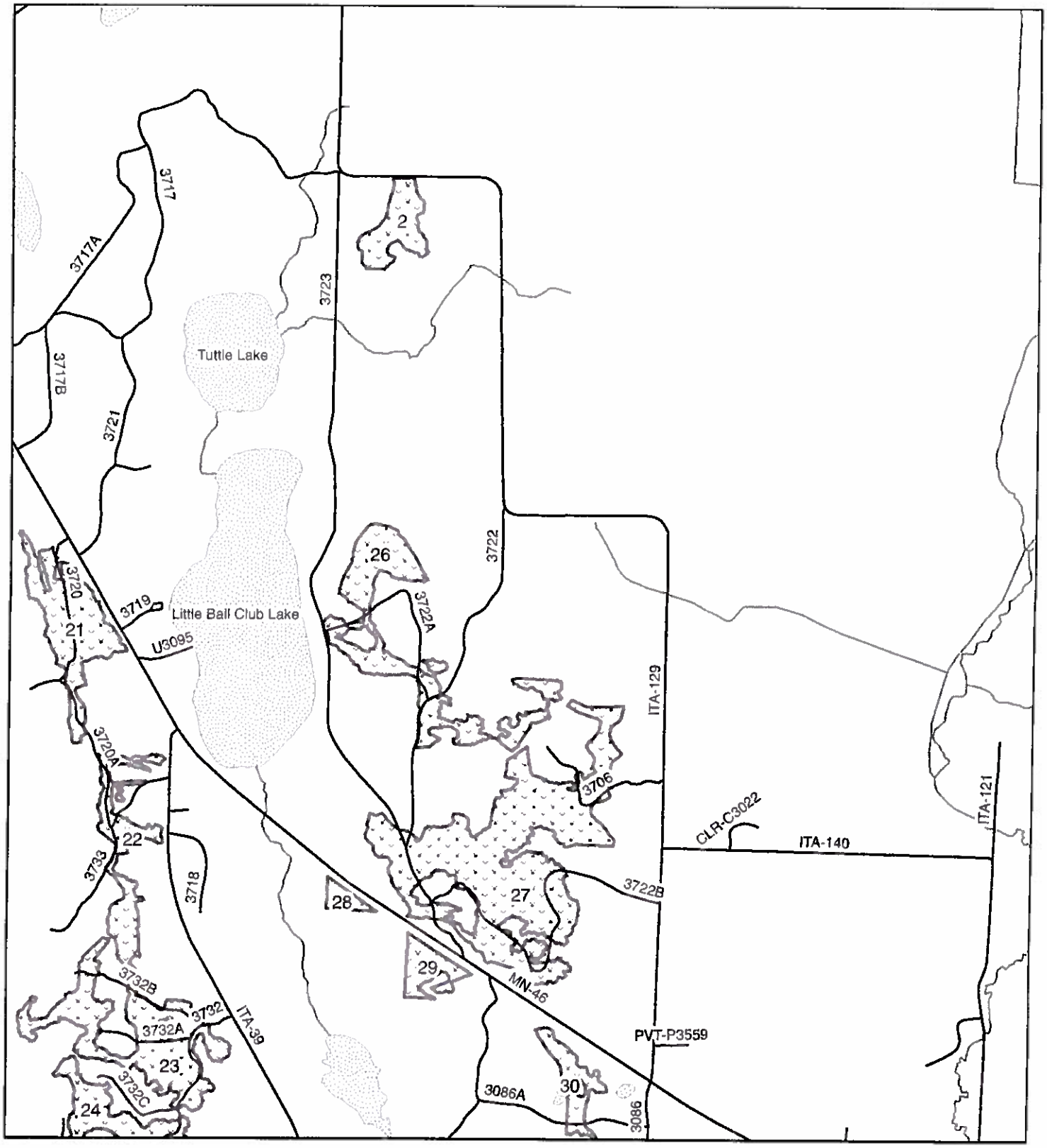
LakePond

Roads

0 0.2 0.4 0.8 Miles

N W E S

Chippewa National Forest Cutty Stewardship
Individual Tree Release Stand 2



Legend

Stand Boundary

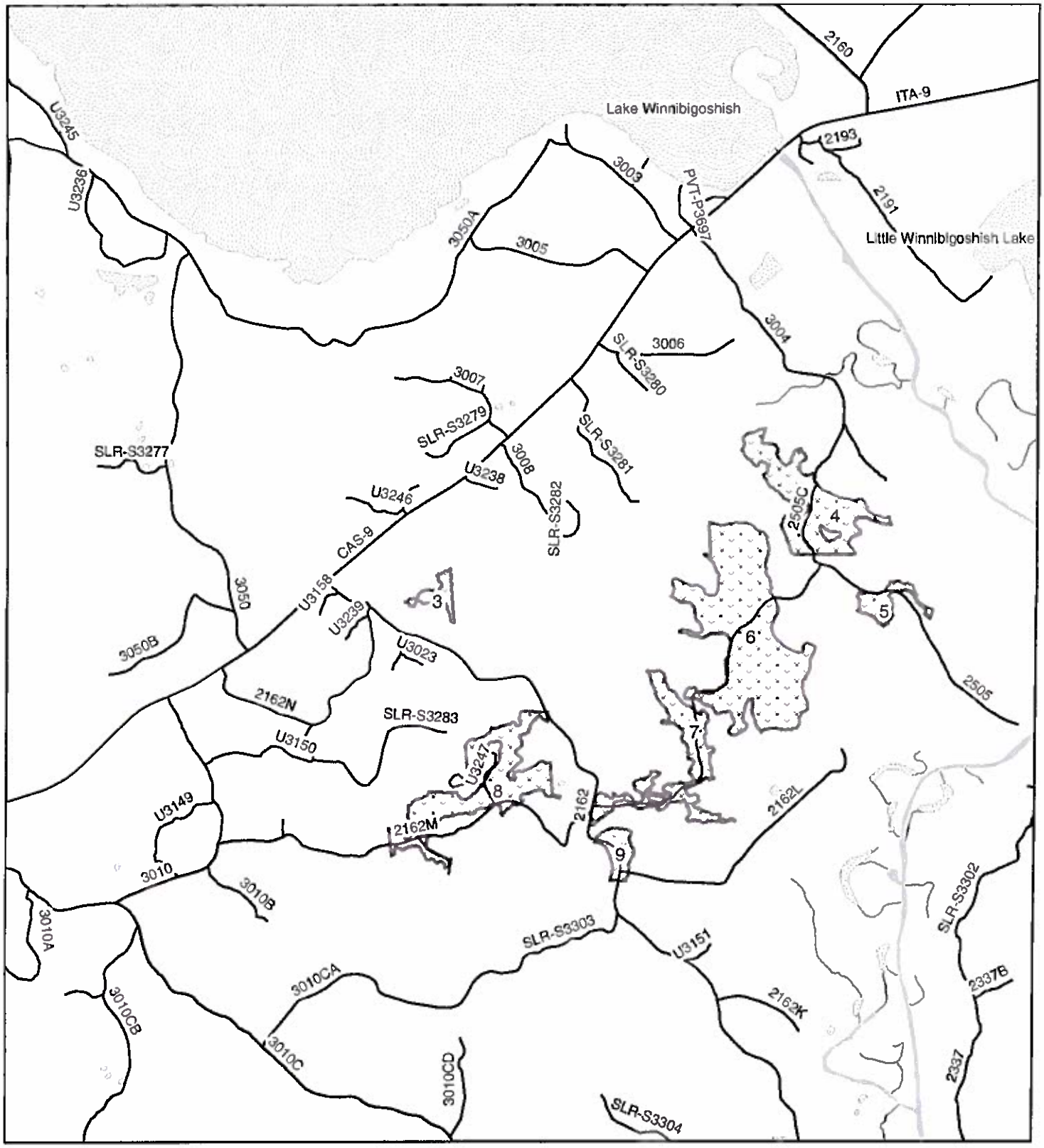
LakePond

Roads

0 0.2 0.4 0.8 Miles

N W E S

Chippewa National Forest Cutty Stewardship
Individual Tree Release Stands 3-9



Legend

Stand Boundary

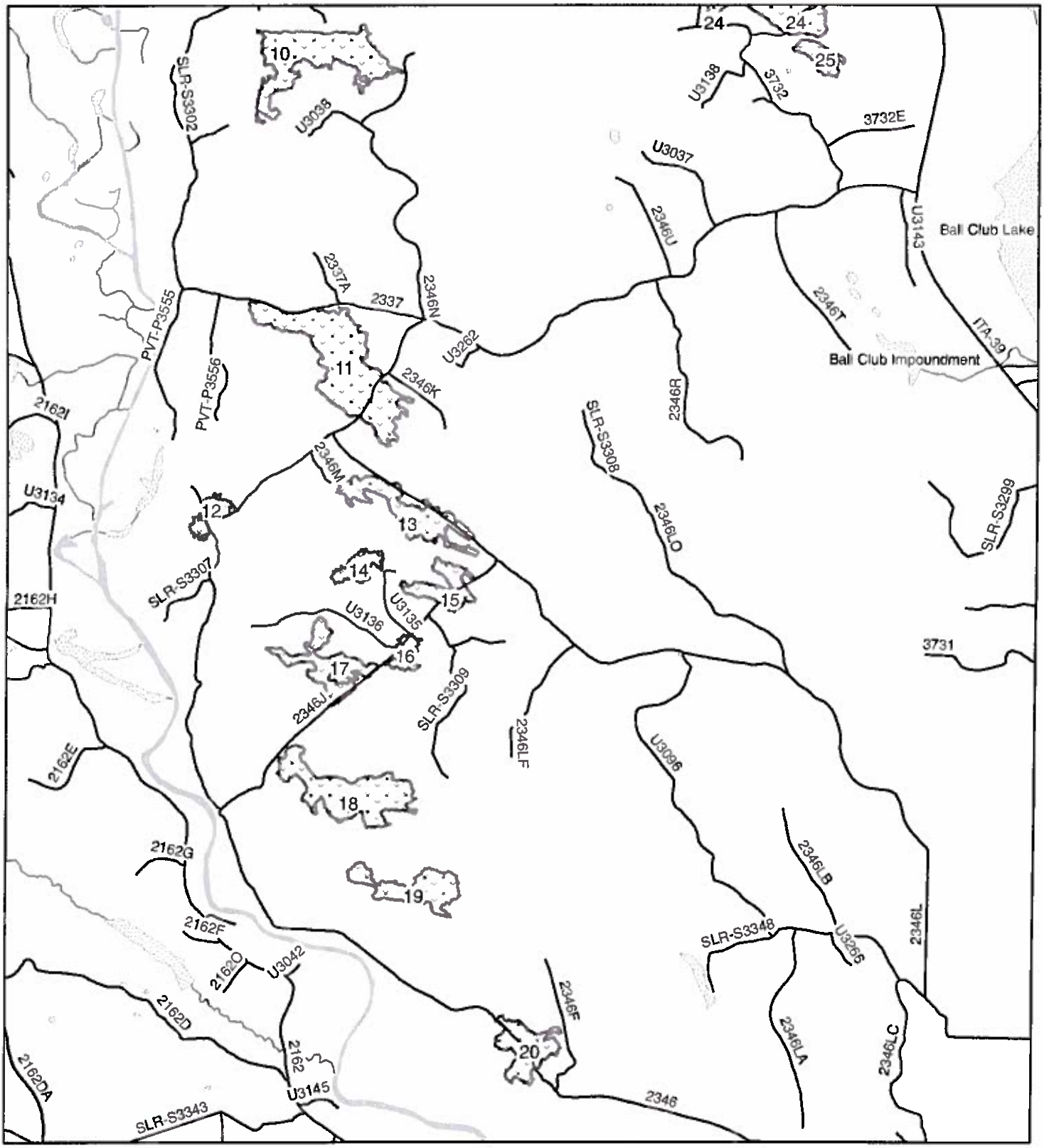
LakePond

Roads

0 0.2 0.4 0.8 Miles

N W E S

Chippewa National Forest Cutty Stewardship
Individual Tree Release Stands 10-20



Legend

Stand Boundary

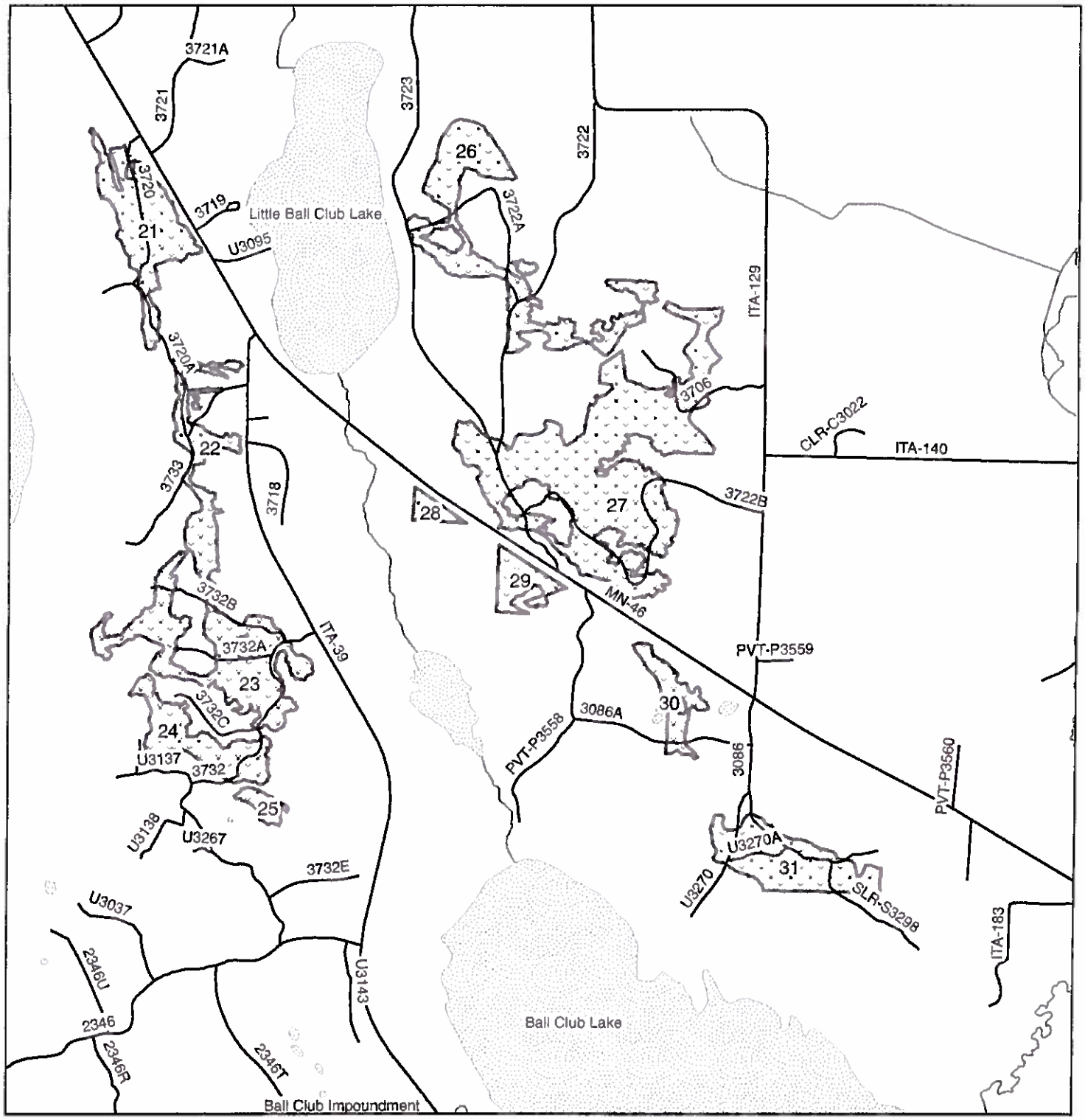
LakePond

Roads

0 0.2 0.4 0.8 Miles

N W E S

Chippewa National Forest Cutty Stewardship
Individual Tree Release Stands 21-31



Legend

Stand Boundary

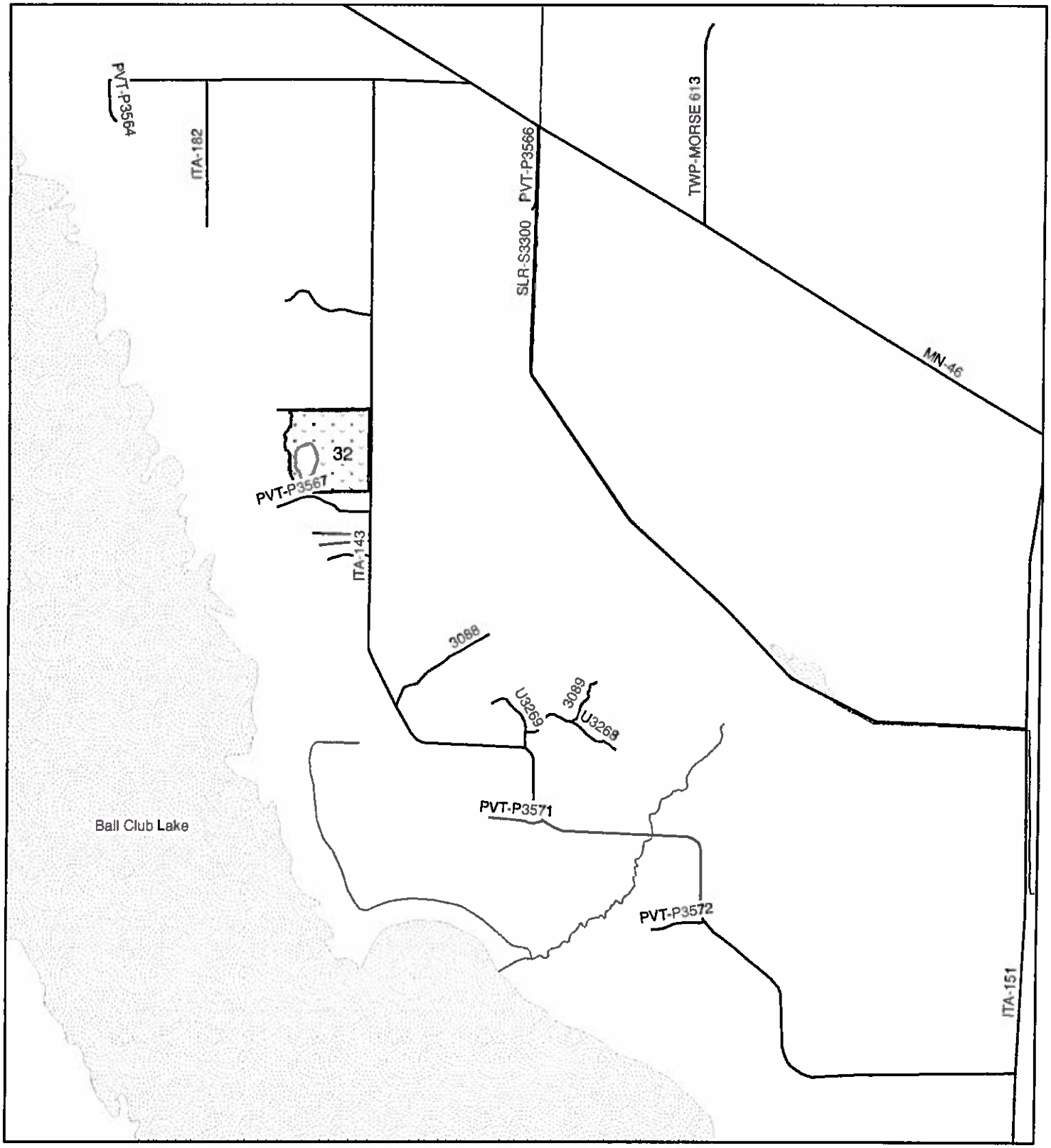
LakePond

Roads

0 0.2 0.4 0.8 Miles

N W E S

Chippewa National Forest Cutty Stewardship
Individual Tree Release Stand 32



Legend

- Stand Boundary
- LakePond
- Roads

0 0.2 0.4 0.8 Miles

N W E S