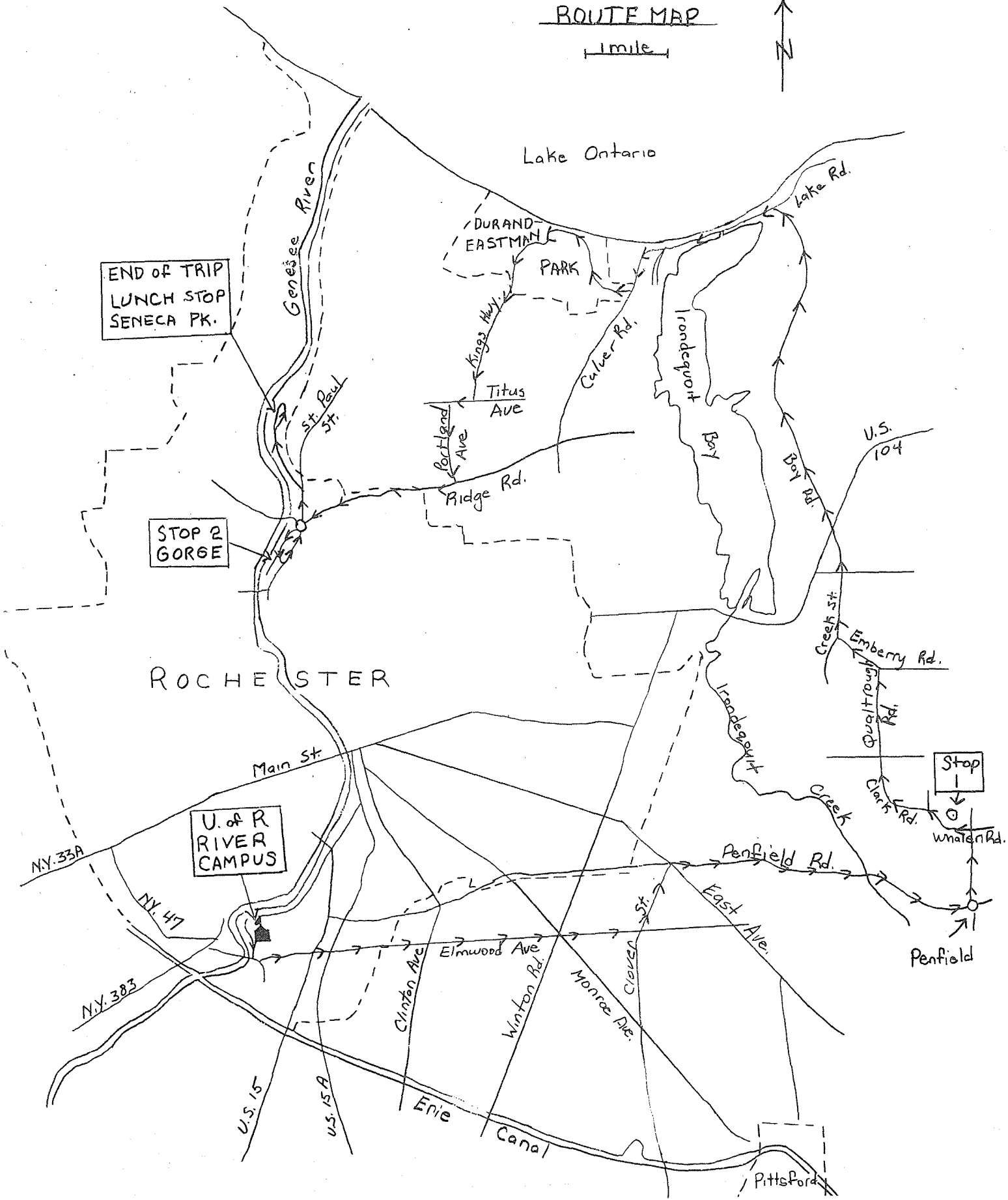


FIELD TRIP 1A-1

ROUTE MAP

1 mile



TRIP 1A-1

U of R River Campus — Penfield Quarry — Rochester Gorge — Seneca Park

Miles

- 0.0 Zero mileage (headed south) at River Boulevard entrance to main quadrangle of U of R River Campus. Erratic anorthosite boulder opposite entrance, with polished and striated surfaces, bears bronze tablet inscribed with "The Genesee", alma mater of the University of Rochester. Proceed south on River Boulevard. River here is in post-glacial course (see p. 8).
- 0.25 Elmwood Avenue (N.Y. 47). Turn left and pass under tracks of Lehigh Valley and Erie railroads.
- 0.35 Road fork. Bear left on Elmwood Ave. (N.Y. 47). For first 3.5 miles, route nearly parallels the Pinnacle Range (see p. 56) of kame moraine hills. Route is on outwash plain and lake beds. U of R Campus is on west end of range.
- 0.5 U of R Atomic Energy Project building to left (N); U of R Medical Center to right (S).
- 0.9 Mt. Hope Cemetery to left (N). Northwestern portion of cemetery, adjoining campus, is an area of spectacular kame and kettle topography.
- 1.1 Mt. Hope Ave. (U.S. 15). Keep straight.
- 1.4 View to left (N) of Pinnacle Range, now about a half-mile to the north.
- 1.8 Enter town of Brighton. Colgate-Rochester Divinity School on crest of Pinnacle Range to left (N).
- 2.3 Clinton Ave. Keep straight. Highest point on Pinnacle Range (749 feet) is just west of radio and telephone towers visible here to the left (N).
- 3.7 Winton Rd. (N.Y. 47 turns left). Keep straight.
- 3.8 Monroe Ave. (N.Y. 31). Keep straight. This is Twelve Corners, business center of Brighton.
- 4.45 Pass over Rochester subway, in abandoned bed of early Erie Canal.
- 4.75 Clover St. (N.Y. 65). Turn left (N).
- 5.5 Bear right (E) before intersection. Turn right (E) onto East Av. (N.Y. 64 and 96) and get in left lane.
- 5.6 Road fork at traffic light. Penfield Rd. (N.Y. 441). Bear left.
- 6.0 Pass under New York Central main line. Outcrops are Lockport dolomite showing characteristic pitted and pocketed surface weathering.
- 6.8 Enter Town of Penfield.
- 7.4 Begin descent into Irondequoit Valley.
- 7.8 Cross Irondequoit Creek.

- 7.9 Flat bottom of Irondequoit Valley (elev. 270 feet). Valley is part of pre-glacial Genesee Valley (see p. 7) which here was filled with morainal debris and Lake Iroquois (see p. 54) sands, then re-excavated by post-glacial Irondequoit Creek. Bedrock, till and lake deposits are exposed at places along valley sides; local sand and gravel workings in glacial material and lake beds. Valley slopes marked by several terraces representing levels of Lake Iroquois. One terrace (at 400 feet) visible here forms flat valley rim.
- 8.75 Enter Village of Penfield.
- 9.0 Top of hill.
- 9.1 N.Y. 253. Turn left on Five Mile Line Rd.
- 9.6 View to left (W) to Rochester over Irondequoit Valley and in line with Pinnacle Range which is prominent elevation.
- 10.0 Stop sign, Whalen Rd. Turn left (W).
- 10.3 East entrance Penfield Quarry of the Dolomite Products Co. Turn in (right).
- STOP 1. --- Penfield Quarry. See page 69.
- 10.4 Leave west entrance Penfield Quarry. Turn right (W) on Whalen Rd.
- 10.6 Clark Rd. Turn left (W).
- 11.2 View to west of Rochester and Pinnacle Range.
- 11.3-17.3 Orchards here are part of extensive apple and peach belt south of Lake Ontario.
- 11.6 Stop sign. Browncroft Blvd. (N.Y. 286). Straight across onto Qualtrough Rd.
- 12.6 End of Qualtrough Rd. Turn left (W) on Emberry Rd.
- 13.2 Junction. Bear right on Creek St.
- 13.9 Stop sign. Plank Rd. Keep straight.
- 14.45 Empire Blvd. (U.S. 104). Cross obliquely onto Bay Rd.
- 15.0 Enter Town of Webster.
- 15.7 Ridge Rd. goes to right (E) on Lake Iroquois bar which is inconspicuous here. See mileage 25.5.
- 18.4 Stop sign. Lake Rd. (N.Y. 18). Turn left (W).
- 18.5 East end of barrier bar carrying road across mouth of Irondequoit Bay which occupies part of re-excavated pre-glacial Genesee Valley.

- 19.4 Cross outlet of Irondequoit Bay. Enter Town of Irondequoit.
- 19.5 Road fork, bear right, leave N.Y. 18. West end of barrier bar. Road becomes Culver Rd. at top of hill.
- 20.4 Traffic light. Turn right (W) on Durand Blvd. Enter Durand-Eastman Park. Enter City of Rochester.
- Durand-Eastman Park, Rochester's largest public park, is in an area of glacial till veneered with Lake Iroquois deposits. The terrane has been dissected deeply by a number of small and closely spaced post-glacial streams which flow directly into Lake Ontario or into narrow inter-divide lakes now sealed from Lake Ontario by massive barrier bars. The Lake Ontario surface is at 246 feet. The crests of the divides increase gradually in elevation southward from about 300 feet a little south of the lake shore to 375 feet two miles farther south.
- 21.3 Road to left. Keep straight.
- 21.4 Public bath house to right (N). Two barred lakes south of road.
- 21.8 Road to left. Keep straight.
- 22.0 Two roads to left. Pass first, turn left (S) on second one (at top of hill).
- 22.6 Road fork. Bear left on Kings Highway.
- 22.6-24.0 Route follows narrow divide between steep-sided valleys. Note accordant divides (Lake Iroquois bottom) at about 375 feet.
- 22.8 Enter Town of Irondequoit.
- 24.3 Titus Ave. Turn right (W). Irondequoit town hall to right.
- 24.55 Portland Ave. Turn left (S).
- 24.55-25.5 Cross near-shore bottom of Lake Iroquois.
- 25.5 Ridge Road (U.S. 104). Turn right (W). Road is atop offshore bar of Lake Iroquois.
- 26.3 Hudson Ave. Keep straight.
- 26.6 Note lower ground to left (S), lagoon behind barrier bar.
- 26.7 Enter City of Rochester.
- 26.8 Seneca Ave. Keep straight.
- 27.0 Clinton Ave. Keep straight.
- 27.3 Stop sign. Traffic circle. Take third street to right (first one past bridge) where sign says "Norton St. Traffic Turn Here".

Miles

27.75

Gateway to entrance to Rochester Gas and Electric Company private road to power plant. Park.

STOP 2 --- Rochester Gorge. See page 69.

27.8

St. Paul St. Turn left (N).

28.2

Traffic circle. Keep on St. Paul St. (third street to right).

28.6

Turn left into Seneca Park. Bear right at road forks.

29.3

Parking area for Seneca Park Zoo.

29.6

Road fork. Bear right.

30.0

LUNCH STOP at park pavilions. END OF TRIP 1A-1.

## Seneca Park — Rochester Gorge — Penfield Quarry — U of R River Campus

Miles

0.0 Leave lunch stop at Seneca Park pavilion area and proceed out of park, continuing south on St. Paul St. to traffic circle. Zero mileage at intersection with traffic circle. Take second street to right (first is bridge over gorge).

0.45 Gateway at entrance to Rochester Gas and Electric Company private road to power plant. Park.

STOP 1 --- Rochester Gorge. See page 69.

0.5 St. Paul St. Turn left (N).

0.9 Traffic circle. Take second street to right, Ridge Rd. (U.S. 104). Road is atop ridge formed by barrier bar in glacial Lake Iroquois (see p. 54).

1.3 Clinton Ave. Keep straight.

1.5 Seneca Ave. Keep straight.

1.6 Enter Town of Irondequoit.

1.7 Note lower ground to right (S), lagoon behind barrier bar.

2.0 Hudson Ave. Keep straight.

2.8 Portland Ave. Turn left (N).

2.8-  
3.75 Cross near-shore bottom of Lake Iroquois.

3.75 Titus Ave. Turn right (E).

3.95 Irondequoit town hall to left (N).

4.0 Kings Highway. Turn left (N).

Approaching Durand-Eastman Park, Rochester's largest public park. This is an area of glacial till veneered with Lake Iroquois deposits. The terrane has been dissected deeply by a number of small and closely spaced post-glacial streams which flow directly into Lake Ontario or into narrow interdivide lakes now sealed from Lake Ontario by massive barrier bars. The Lake Ontario surface is at 246 feet. The crests of the divides decrease gradually in elevation from about 375 feet at Titus Ave. to about 300 feet a little south of the lake shore, in a distance of two miles.

4.3-  
5.7 Route follows narrow divide between steep-sided valleys. Note accordant divides (Lake Iroquois bottom) at about 375 feet.

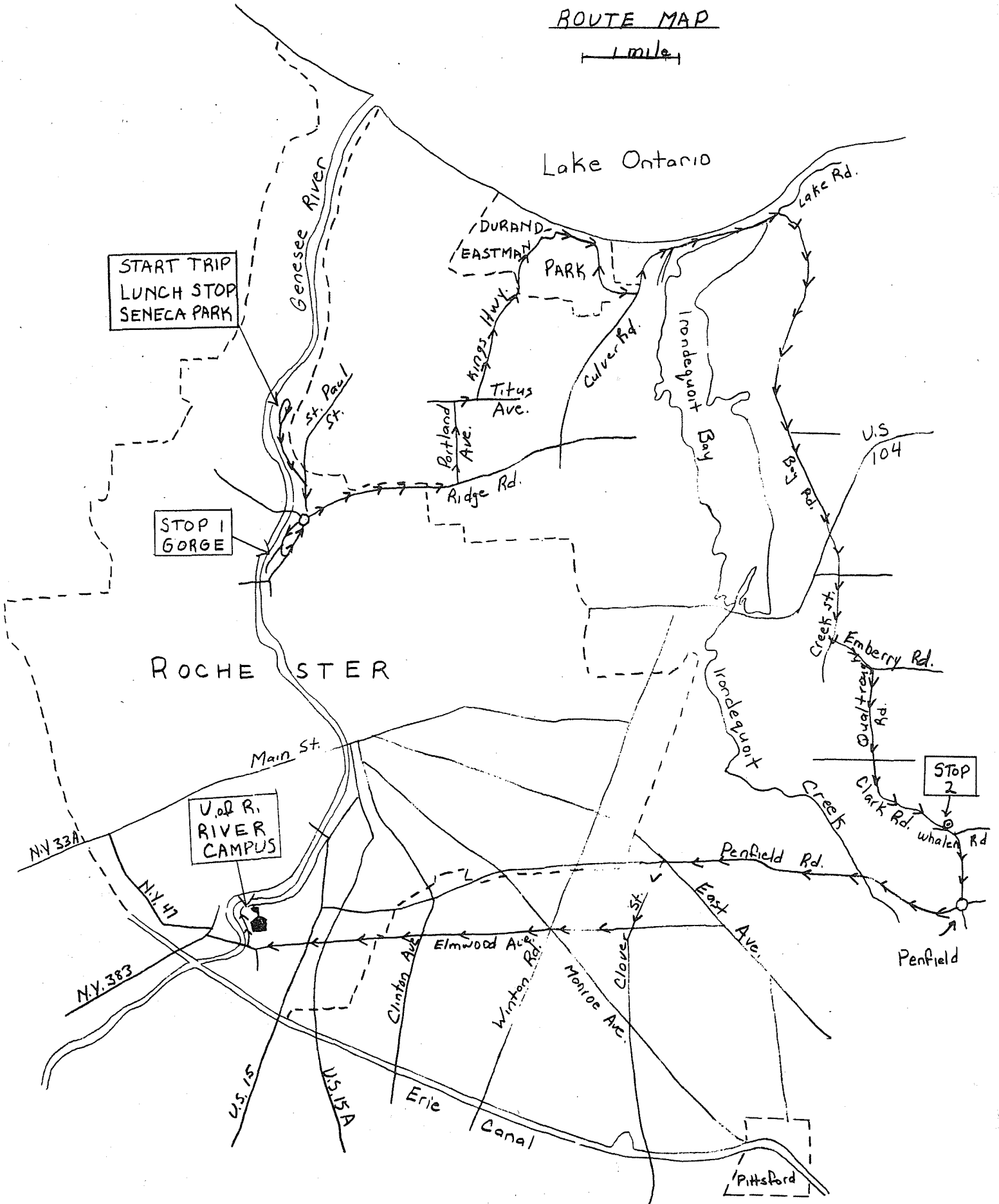
5.5 Enter City of Rochester and Durand-Eastman Park.

5.7 Road enters from left. Keep straight.

FIELD TRIP 1A-2

ROUTE MAP

1 mile



Miles

- 6.1 Road fork. Bear left.
- 6.3 Durand Boulevard. Turn right (E).
- 6.5 Road to right. Keep straight.
- 6.9 Public bath house to left (N). Two barred lakes south of road.
- 7.0 Road to right. Keep straight.
- 7.3 Road fork. Bear left.
- 7.9 Culver Road. Turn left. Enter Town of Irondequoit, leave Durand-Eastman Park.
- 8.8 After curving down hill, merge with N.Y. 18 which joins from right rear. For next mile route is on barrier bar across mouth of Irondequoit Bay which occupies part of re-excavated pre-glacial Genesee Valley. Enter Town of Webster.
- 8.9 Cross outlet to Irondequoit Bay.
- 9.8 East end of barrier bar
- 9.9 Bay Road. Turn right (S) up hill.
- 11.0-17.0 Orchards here are part of extensive apple and peach belt south of Lake Ontario.
- 12.6 Ridge Rd. goes to left (E) on continuation of Lake Iroquois bar east of Irondequoit Bay.
- 13.3 Enter Town of Penfield.
- 13.8 Empire Blvd. (U.S. 104). Cross obliquely onto Creek St.
- 14.4 Stop sign. Plank Rd. Keep straight.
- 15.1 Road junction. Emberry Rd. Turn left (E).
- 15.7 Road junction. Qualtrough Rd. Turn right (S).
- 16.7 Stop sign. Browncroft Blvd. (N.Y. 286). Straight across onto Clark Rd.
- 17.1 View to west of Rochester and Pinnacle Range of kame moraine hills (prominent hill above level skyline) across Irondequoit Valley. See page 56.
- 17.7 Whalen Rd. Turn right (S).
- 17.9 West entrance Penfield Quarry of the Dolomite Products Co. Turn in (left).



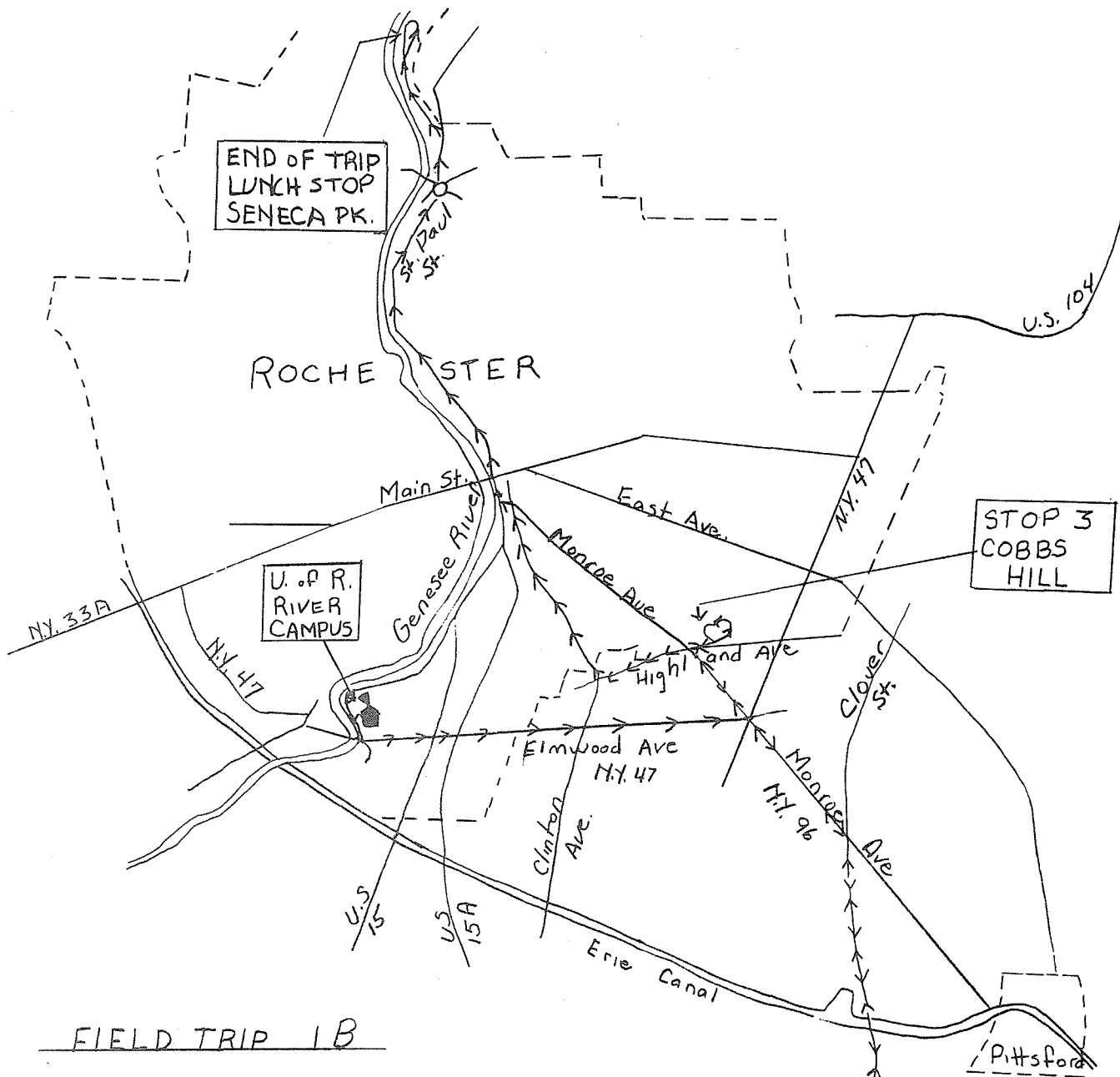
Miles

- 18.0 East entrance Penfield Quarry. Turn left (E) on Whalen Rd.
- 18.3 Five Mile Line Rd. (N.Y. 253). Turn right (S).
- 18.6 Enter Village of Penfield.
- 18.7 View to right (W) of Rochester and Pinnacle Range (prominent hill).
- 19.2 N.Y. 441. Turn right (W).
- 19.3 Begin descent into Irondequoit Valley.
- 20.4 Flat bottom of Irondequoit Valley (elev. 270 feet). Valley is part of pre-glacial Genesee Valley (see p. 7) which here was filled with morainal debris and Lake Iroquois sands. Then re-excavated by post-glacial Irondequoit Creek. Bed rock, till and lake deposits are exposed at places along valley sides; local sand and gravel workings in glacial material and lake beds. Valley slopes marked by several terraces representing levels of Lake Iroquois. One terrace (at 400 feet) visible here forms flat valley rim.
- 20.5 Cross Irondequoit Creek.
- 20.9 Top of hill after climbing out of valley.
- 21.5 Enter Town of Brighton.
- 22.3 Pass under New York Central main line. Outcrops are Lockport dolomite showing characteristic pitted and pocketed surface weathering.
- 22.7 Merge with East Ave. (N.Y. 64 and 96) at traffic light. Get in left lane to turn at next light.
- 22.75 Turn left (S) onto Clover St. (N.Y. 65).
- 23.55 Elmwood Ave. Turn right (W).
- 23.85 Pass over Rochester subway, in abandoned bed of early Erie Canal.
- 24.5 Monroe Ave. (N.Y. 31). Keep straight. This is Twelve Corners, business center of Brighton.
- 24.6 Winton Rd. (N.Y. 47 enters from right). Keep straight.
- 25.8-  
28.3 For last 3.5 miles, route nearly parallels the Pinnacle Range. Route is on outwash plain and lake beds. U of R River Campus is on west end of range.
- 26.0 Clinton Ave. Keep straight. Highest point on Pinnacle Range 749 feet) is just west of the radio and telephone towers visible here to the right (N).

Miles

- 26.5 Enter City of Rochester. Colgate-Rochester Divinity School on crest of Pinnacle Range to right (N).
- 27.2 Mt. Hope Ave. (U.S. 15). Keep straight.
- 27.4 Mt. Hope Cemetery to right (N). Northwestern portion of cemetery, adjoining campus, is an area of spectacular kame and kettle topography.
- 27.8 U of R Atomic Energy Project building to right (N); U of R Medical Center to left (S).
- 27.95 Bear right beneath tracks of Lehigh Valley and Erie railroads.
- 28.05 River Blvd. Turn right. Genesee River here is in post-glacial course.
- 28.3 Entrance to main quadrangle of River Campus. Erratic anorthosite boulder opposite entrance, with polished and striated surfaces, bears bronze tablet inscribed with "The Genesee", alma mater of the University of Rochester.

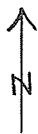
END OF TRIP 1A-2.



FIELD TRIP 1B

Route Map

1 mile



STOP 2  
WALK ON  
ESKER

STOP 1  
GRAVEL  
PIT

Mendon Ponds  
County Park

