



Province of
British Columbia
Ministry of Lands,
Parks and Housing

APODACA MASTER PLAN

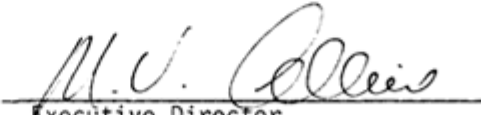
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This Master Plan for Apodaca Provincial Park is herewith recommended for approval.


Regional Director
South Coast Region

APPROVED: 1/6/84
Date


Executive Director
Parks and Outdoor Recreation
Division

South Coast Region
Parks and Outdoor Recreation Division
Ministry of Lands, Parks and Housing

APODACA PROVINCIAL PARK

MASTER PLAN

November, 1983

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PART 1: SUMMARY & BACKGROUND

A. PLAN SUMMARY

Apodaca Provincial Park, an 8 hectare, Class 'A', Category 6 park located on Bowen Island, was established in 1954, one year after the property was donated to the Province by Major J. S. Matthews, a noted Vancouver historian, as a memorial to his son who died at age 22.

Accessible only by water or trail, the park consists of cliffs and rocky knolls and represents an opportunity to provide a unique walk-in camping and picnicking experience. This scenic park offers activities such as viewing, photography, nature study and fishing (from rocks).

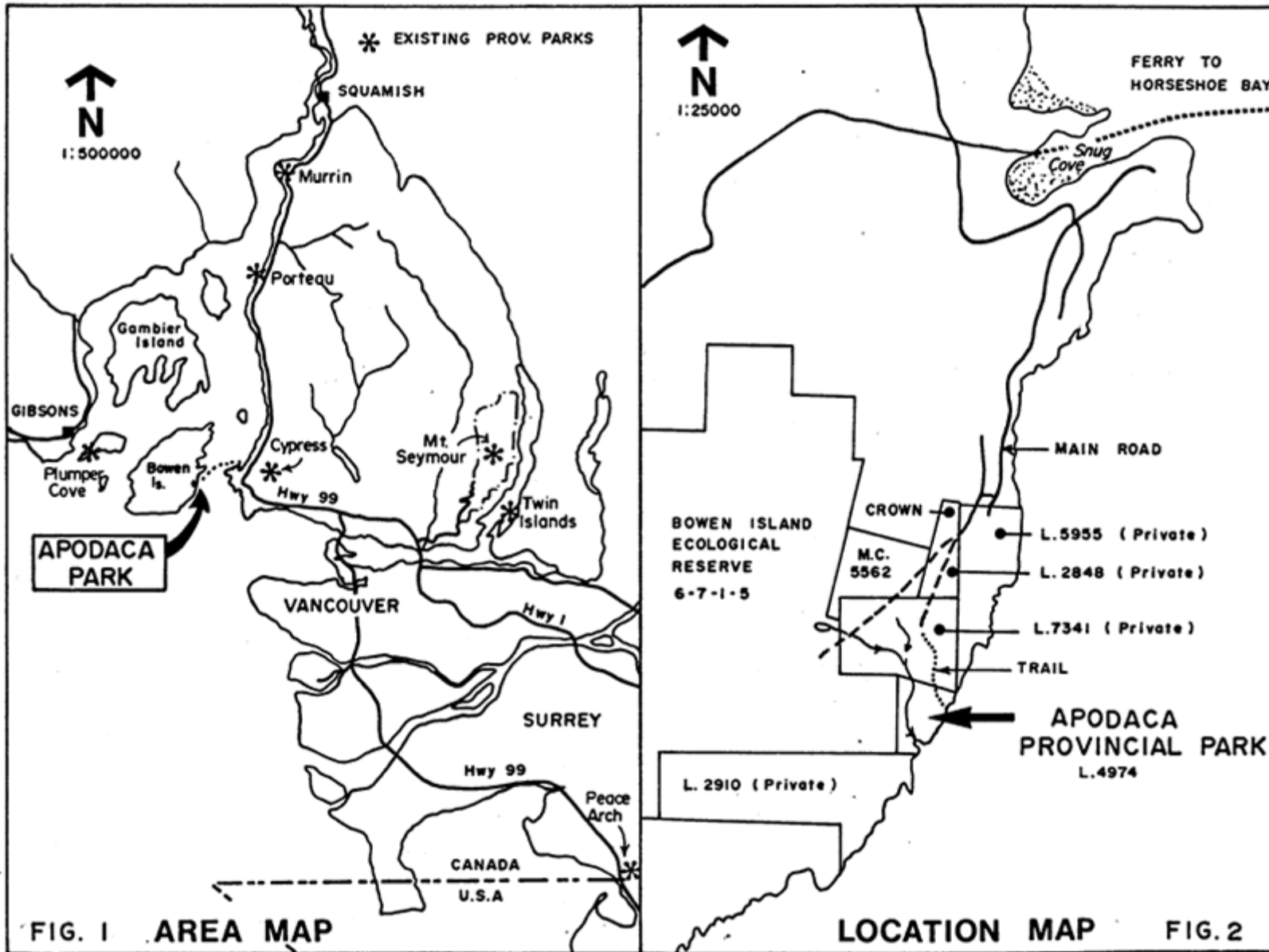
B. REGIONAL AND PROVINCIAL CONTEXT

Apodaca Provincial Park is located on the southwest coast of Bowen Island at the mouth of Howe Sound. The combination of topography, climate and vegetation gives the site a distinctly "Gulf Islands" character. Access to Bowen Island is via ferry (twenty minutes) from Horseshoe Bay. From the Bowen Island ferry terminal (Snug Cove), it is another forty-five minute walk by a combination of public road and trail to the park. Thus, the park provides an opportunity for visitors to recreate on a rocky island using a minimum of transportation.

The flora of the park and adjacent ecological reserve is sufficiently unique to be of special interest in a regional context. The floral communities represented in the park are not well represented elsewhere in the Lower Mainland Region.

Apodaca Provincial Park will serve regional recreation and tourism markets. The general park objectives are:

1. Preservation - to preserve the special park features, including the unique plant communities.
2. Recreation - to provide day use opportunities and walk-in overnight use.



C. RESOURCES

1. NATURAL RESOURCES

a) Natural and Regional Landscape

Apodaca Park is located in the Coast Mountain Natural Region, at the entrance to a major fjord, Howe Sound. The park represents headlands and rocky knolls on an island.

b) Climate

Apodaca has a temperate marine climate characterized by cool, dry summers and mild, rainy winters. The southern aspect of the park means that considerably more insolation is received by the park than the northern side of Bowen Island. The park also lies in a rain shadow effect created by moisture laden clouds passing over the island until they reach the Howe Sound mountains and drop their precipitation. The January mean temperature is 4 degrees Celsius. In July, the average temperature is 18 degrees Celsius.

c) Physiography

Steep escarpments rising out of the sea are characteristic of the park, with rocky knolls predominating most of the landscape. Bedrock geology consists of diorite, basalt and greenstone. The area was severely modified by the effects of glaciation, which ended approximately 10,000 years before the present (B.P.) There are several well-developed surge channels.

Soils tend to be shallow and of the podzol group. Soils of this type are characterized by being acidic with vegetative generation being slow, owing partly to the poor moisture retention characteristics.

d) Hydrology

Apodaca Park features a small stream, Optimist Creek, with a year round flow of water. Water for the creek originates in a small lake in the ecological reserve adjacent to the park (file no. 6-7-1-5).

There is some downslope movement of water as reflected in seepage areas, but these are not numerous.

e) Vegetation

The park lies within the Coastal Western Hemlock Biogeoclimatic zone. Characteristic species include Douglas Fir (*Pseudotsuga menziesii*), Lodgepole Pine (*Pinus contorta*) and salal (*Gautheria shallon*). The presence of Pacific Madrone (*Arbutus menziesii*) indicates that the park is in a drier sub-zone.

Slope, drainage and local weather patterns contribute to a "rocky knoll" vegetation more typical of the Gulf Islands and Southern Vancouver Island. Plants included here are: Sea Blush (*Plectritis congesta*), Blue-eyed Mary (*Collinsia*, sp.) and Death Camas (*Zygadenus venosus*). There is a small population of Blue Camas (*Camassia quamash*) and this is one of the few known sites where this plant grows in the Lower Mainland region.

In 1920, a fire swept the island, which accounts partially for the extensive lodgepole pine (*Pinus contorta*). Some large Douglas Fir bear fire charred bark.

Rock outcroppings have well established moss/lichen communities (*Rhacomitrium*, *Cladina*). Grasses and other herbaceous plants are evident in swales where sub-surficial moisture travels downslope.

f) Fauna

The offshore waters support a variety of marine birds, including the Marbled Murrelet, pigeon Guillemot and Pelagic cormorant. Marine mammals include the harbour seal and killer whale. Evidence in the form of pellet groups and browse sign indicates that Coast Blacktail deer use the park extensively, feeding on the spring growth of salal. Typical forest birds in the park include the blue grouse, black-throated gray warbler, chestnut-backed chickadee and red-breasted nuthatch.

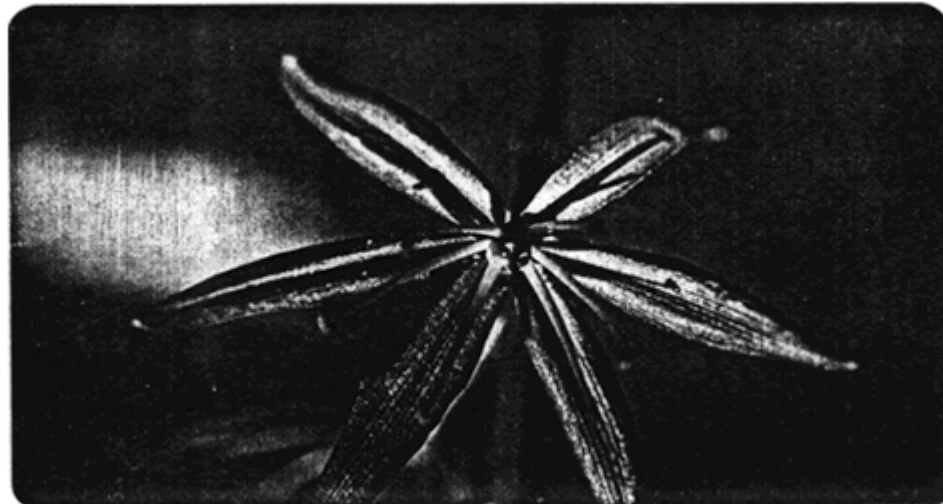
Intertidal and undersea life includes anemones, Pacific octopus, rockfish and greenling. Tidepools contain populations of ochre starfish and tidepool sculpin.



There are a number of beautiful tidepools in the park. Here purple sea stars live crowded together under a rocky ledge.

Blue Camas

A very rare plant in the Lower Mainland. Apodaca is one of its few known locations.



2. CULTURAL RESOURCES

a) Archaeological

No archaeological sites have been found in Apodaca Park.

b) Historical

Apodaca was named by Major J. S. Matthews, honouring the name given to the islands at the entrance to Howe Sound by the Spanish navigator Don Jose Marie Narvaez, who explored the Gulf of Georgia in 1791, one year before Captain Vancouver.

In the early part of the century, Major Matthews' son was in a small boat which was stranded one evening. His son fought his way through the brush late at night at Snug Cove. When his son died at age 22, the Major bought this property as a memorial and in 1956, donated it to Provincial Parks.

Major Matthews named the creek in the park "Optimist Creek" from the Optimist's Club, which had planned on putting a youth camp on the island.

There is a mine adit just to the north of Apodaca Cove at sea level. Evidence for this is in the form of hewn timbers covered with material from the roof of the adit. No data on this feature could be found, but a considerable number of mineral claims were staked on the island before the war. This was probably a test shaft.

A mine adit - probably a test tunnel. Lumber was found under debris at bottom of tunnel.

Photo unavailable.

The "Grotto" Optimist Creek provides a year round source of drinking water

Photo unavailable.

¹ 3. VISUAL RESOURCES

Apodaca Park offers visitors some spectacular views of the entrance to Howe Sound and the Strait of Georgia. From the viewpoints in the park, boats of various sizes from small pleasure craft to the B. C. Ferries ply the waters below. On a clear day, one can see the mountains of Vancouver Island and the North Shore, including Cypress Provincial Park.

In spring, the knolls are carpeted with numerous wildflowers with pink and yellow dominating. The dark green pine and Douglas Fir set off the coppery bark and white flower sprays of the Pacific Madrone.

4. ANALYSIS

a) Major Opportunities and Constraints

CLIMATIC RESOURCES	
OPPORTUNITIES	CONSTRAINTS
– moderate climate permits year round use of the park	– fall and winter rains may discourage use in these seasons
PHYSIOGRAPHIC RESOURCES	
OPPORTUNITIES	CONSTRAINTS
– rocky knoll topography offers high visual experiences	– rocky knoll topography severely limits trail construction – cliffs may pose danger and limit development in these areas

HYDROLOGICAL RESOURCES	
OPPORTUNITIES	CONSTRAINTS
<ul style="list-style-type: none"> – Optimist Creek has potable water for park visitors – a small waterfall and grotto offer visitors delightful visual experiences 	<ul style="list-style-type: none"> – water volume is affected by seasonal precipitation patterns. Summer flow may be low.
VEGETATION RESOURCES	
OPPORTUNITIES	CONSTRAINTS
<ul style="list-style-type: none"> – spring flowers attract naturalists and photographers – moss covered rocky knolls give unimpeded views 	<ul style="list-style-type: none"> – knoll vegetation is unable to withstand heavy foot traffic. Regeneration is slow on the shallow soils – a high fire hazard in summer
WILDLIFE RESOURCES	
OPPORTUNITIES	CONSTRAINTS
<ul style="list-style-type: none"> – good place to observe bird life – tidepools offer opportunities to observe rocky coastline fauna 	<ul style="list-style-type: none"> – no major conflicts between wildlife habitat and recreation use
CULTURAL RESOURCES	
OPPORTUNITIES	CONSTRAINTS
<ul style="list-style-type: none"> – opportunity to include historical information in regional interpretive programs (early Spanish navigators) 	<ul style="list-style-type: none"> – no major conflicts between recreation and cultural resources – safety of adit needs to be confirmed
VISUAL RESOURCES	
OPPORTUNITIES	CONSTRAINTS
<ul style="list-style-type: none"> – viewing of scenery and boat traffic at entrance to Howe Sound and at Strait of Georgia – spring flowers on rocky knolls provide a visual experience similar to "Alpine Meadows" 	<ul style="list-style-type: none"> – no known conflicts between recreational use and visual resources



APODACA COVE

The only sheltered bay in the park, but limited in use as an anchorage by the shingle beach. Note ferry in background. Wash from ferry also a limitation.

D. LAND TENURES, OCCUPANCY RIGHTS AND JURISDICTIONS

1. LEASES AND USE PERMITS

Park Use Permit No. 620 (Conditional Water License No. 36800) is held by a local resident for domestic water purposes from Optimist Creek of up to 2273 litres per day. The permit is on a 5 year basis and was renewed in 1982.

2. FEE SIMPLE LANDS

None.

3. OTHER TENURES

None.

4. TRESPASSES

None.

5. MINERAL CLAIMS

None.

6. STATUTORY JURISDICTION

a) Hunting Regulations

Hunting, shooting and discharge of firearms prohibited in park.

b) Fishing Regulations

Park visitors are subject to Federal Government fishing regulations.

c) Water Licenses

Conditional water license #36800 issued for domestic water use under Park Use Permit No. 620.

7. MAJOR ADDITIONS AND BOUNDARY ADJUSTMENTS

There is a need to secure access to the park.

E. EXISTING FACILITIES

There are no existing facilities.

Access to the park is through Crown lease and private land. A trail, as such, has not been formally established and, in future, a realignment may be necessary to do so.

F. MARKET ANALYSIS

1. EXISTING USE

The market serving the park objectives, local residents and visitors to Bowen Island includes:

- day use destination (picnicking, camping)
- fishing
- day use touring (hiking, strolling)

Apodaca would primarily satisfy a Vancouver-based day use destination market.

2. DAY USE

Use figures are non-existent. However, the Vancouver Natural History Society has taken numerous field trips to the park, including the spring of 1983. The park is not heavily used because access is not marked.

3. SUPPLY AND DEMAND

The supply of parks with access to rocky shore areas is becoming scarce. These areas are often prime for housing development. With the new Greater Vancouver Regional District park on Bowen Island, the park will no doubt become better known. Apodaca will provide the old-fashioned, walk-in type picnicking and camping. There is a scarcity of day use park facilities on Bowen Island.

Apodaca Provincial Park primarily serves the Vancouver-based day use touring market.

Data from the British Columbia Ferry Corporation are not available on the ratio of resident/tourist traffic.

PART II: THE PLAN

A. SPECIFIC OBJECTIVES FOR APODACA PARK

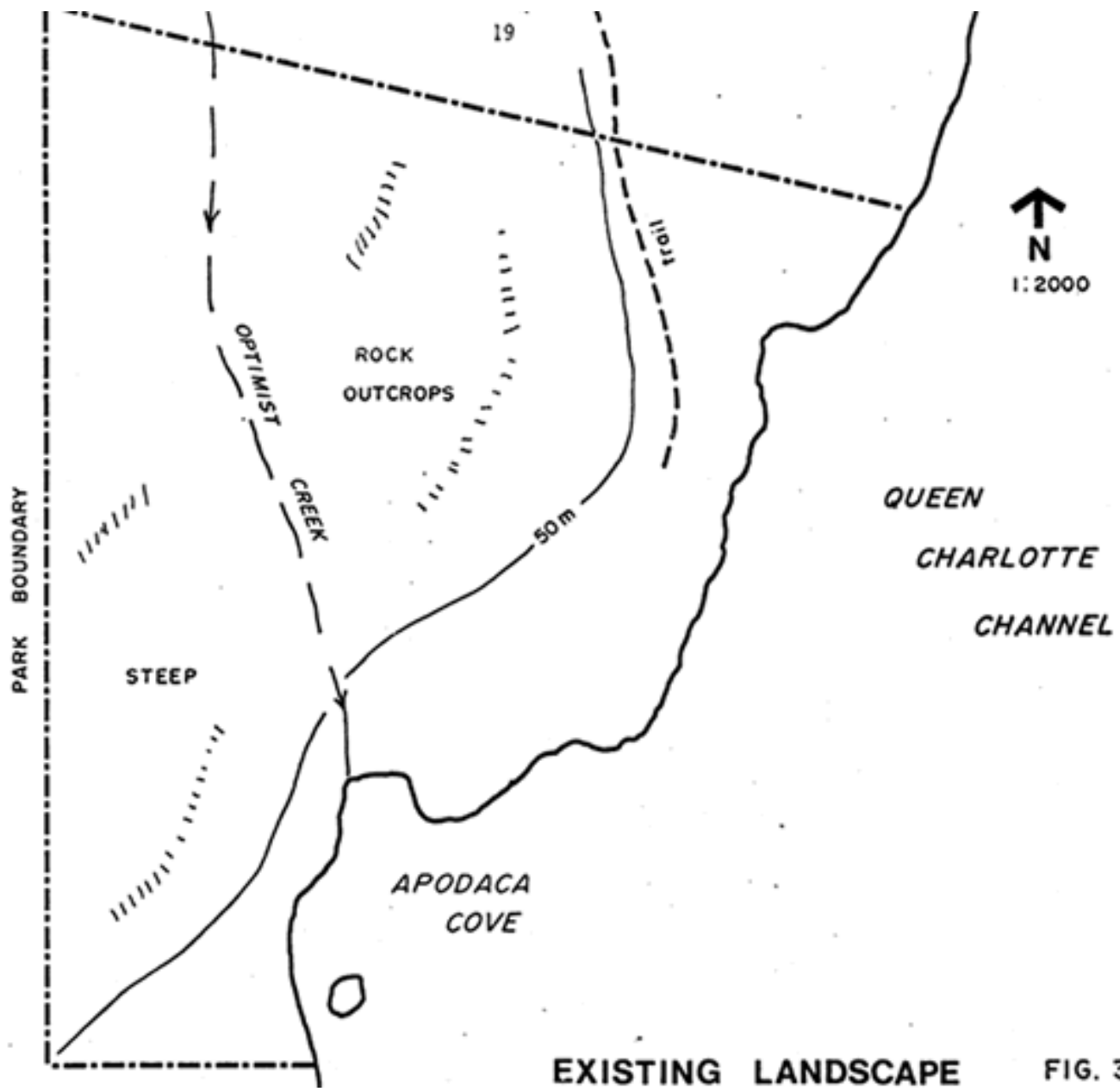
The objectives for this park are:

1. To preserve Apodaca in a natural state and to provide quality recreational use of its features.
2. To provide facilities which complement the park resources and provide an opportunity to the public to enjoy and appreciate these features.
3. To establish spur trails off the main trail leading to viewpoints and picnicking sites.
4. To establish six walk-in campsites.

B. ZONING

The park is divided into two primary zones - "Natural/Preservation" and "Development." The rationale for zoning is as follows:

1. Natural Zone - includes areas designated to remain in a natural state.
2. Development Zone - includes all areas to be developed for picnicking, camping and trail use.



EXISTING LANDSCAPE

FIG. 3

C. DEVELOPMENT PLAN

Apodaca Park will serve as a ferry ride/walk-in park for Lower Mainland visitors. Design elements will keep facilities informal in keeping with the character of the landscape.

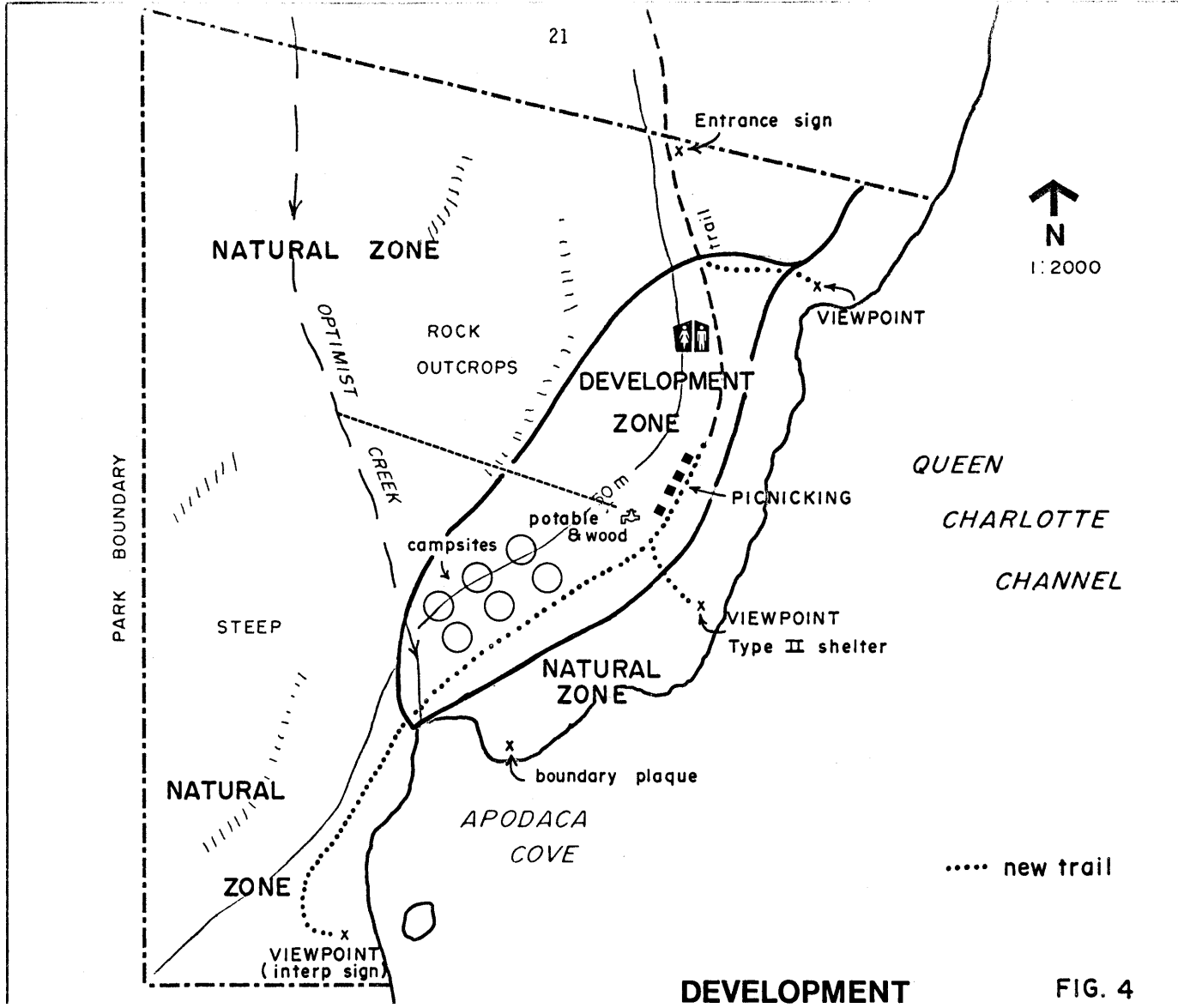
Facility development will be undertaken as funds become available in relation to regional and provincial priorities.

Phasing will be generally as follows:

- Phase I
 - improve trail in park
 - erection of park identification signs (a) trailside at entrance to park and (b) marine portal
 - locate and install outhouse
 - secure access

- Phase II
 - installation of spur trails to viewpoints
 - installation of Type II sign shelter

- Phase III
 - installation of campsites
 - erection of interpretive signs



D. POLICIES FOR MANAGEMENT AND PLANNING

1. RESOURCES

a) Land

- ensure protection of area next to the Ecological Reserve so that recreation use from the park will not impact on the reserve
- ensure that access is secured under Section 6.1e of the Park Act

b) Water

- ensure that recreational developments and facility location will not affect the quality of water in Optimist Creek, the only source of potable water in the park

c) Vegetation

- development to avoid damage to sensitive plant communities ("knoll vegetation")

d), Wildlife

- no special concerns or recommendations

e) Cultural

- include reference to early Spanish and English exploration as part of interpretive plan

2. PUBLIC USES

a) Recreation

Acceptable types of recreation in the park are viewing, nature study, picnicking, photography, walk-in camping, fishing (for rock fish).

b) Education

The uniqueness of the flora in the Lower Mainland Region regional context provides an attraction for naturalist groups and professional botanists. Educational use should be encouraged through marketing and information programs.

c) Research

Non-destructive research should be permitted in the park under Park Use Permit.

d) Concession

No concessions should be permitted in the park.

e) Leases

No leases should be permitted in the park.

f) Use Permits

Use permits should be issued for non-destructive educational research only.

E. MARKETING AND INFORMATION PROGRAM

Following the implementation of Phase I of this plan, a marketing plan should be developed for the park. The plan should investigate the implications for Apodaca of the new (1983) Crippen Regional Park (G.V.R.D.).

Marketing should include mention in brochures, maps and tourist accommodation guides.

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