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APR 14 1992

DUCKS UNLIMITED CANADA - INTER-OFFICE MEMO

LOWER MAINLAND REGION
FILE NO. _____

DATE: 92 03 25 FILE NO: 92 G 4
FROM: Kathleen Fry AT: Surrey
TO: Note to File AT: Surrey
SUBJECT: Annual Operational plans- PWMA 1992

Meeting: MOE office, Surrey, Feb. 11
Present: J. Evans, B. Wareham, L. Bogdan, K. Fry

ACTIVITY DATE RESP

1. Katzie Marsh

1.1 Water level Management

-stoplogs removed at 4, draining	JAN - MAR	FW
-keep sl out for summer drawdown	APR1- OCT15	FW
-all sl removed to allow winter drainage	OCT 15	FW

NOTE: Water levels have been set at 2.0 for 1988-89. In past few years, attempts to keep low to encourage Scirpus have been unsuccessful, as even with all the sl out, area has not been draining. Further investigation of flapgate required. FW CURRENTLY CLEARING DITCH AREA OF BEAVER DAMS ETC 92/03/25.

NOTE: FW crew to keep screens clear until end of March.
DU to maintain in summer.

1.2 Habitat Management

- brush-clearing of islands if crew avail.	MAR	FW
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2. Pitt Marsh

2.1 Water Level Management

- all stoplogs removed at 3	JAN - MAR	FW
- set 3 at 5.0 after scarification	APR 15	FW
- remove sl after freshet for drainage and repairs	JUL-SEPT30	FW
- re-alignment of ditch to control 3	AUG-SEPT	DU
- set 3 at 3.0 for fall after repairs	to OCT 31	FW
(transfer water from Minmunta if desired		FW)
- pull 3 down to 0 for winter drainage	NOV.1	FW

NOTE: Due to problems encountered 90/91 winter with drainage from Pitt Marsh adding to rainfall/runoff into Katzie beyond capacity of sl control 4, control 7 is to be kept year-round at 5.0 ft.

NOTE: Ditch to control 3 may be done in April (FW)

2.2 Habitat Management

- burning of marsh vegetation	MAR	FW
- ditching to facilitate drainage at 3	LATE AUG	FW

3. Munmunta/Osprey Basin
- 3.1 Water level Management
- all sl out control 5 JAN-JULY FW
 - set sl to 5.0 AUG 1 FW
 - drop to 3.0 OCT 1-DEC FW
 - remove all stoplogs at control 5 DEC FW
- 3.2 Habitat management
- none planned
 - flip flapgate at control 6
4. Crane Reserve
- 4.1 Water Level Management
- sl out of controls 1 and 2 to allow drainage JAN-DEC FW
 - subcompartment management: (FW)
 - drain water from compartment JAN-MAR
 - (burning) MAR-APR
 - backflood from rest of compartment APR-SEPT
- 4.2 Habitat Management
- burning of subcompartment MAR-APR FW
 - plug replaced along ditch by control 3 APR FW
- NOTE: FW already burned
5. Homilkuum
- 5.1 Water Level Management
- sl removed control 10 for spring burn JAN-MAR FW
 - reset logs to 6.0, reflood via #8 APR1 FW
 - after freshet, drawdown for smartweed JUN-SEPT30 FW
 - reset sl to 4.0 at control 10 OCT1-MAR FW
- NOTE: Use screwgate 8 to drain for smartweed, possible transfer from Homilkuum to Pitt Marsh through control 10 in fall.
- 5.2 Habitat Management
- burning MAR FW
 - clearing in front of control MAR FW
- NOTE: FW got good burn and will be reflooding next week (92/03/26)
6. Other
- 6.1 Dyke Mowing
- NOTE: All dyke tops will be done both times
 - for top and sides, see below
 - Mowing of Swan, Snake, Bittern and Homilkuum dykes MAY 25-JUN 5 DU
 - Mowing of Munmunta and North Crane Dykes AUG 1-15 DU
- 6.2 Pump station area
- Pump was removed by DU last year, but some pipes still remain.
 - FW has indicated interest in stalling pipe between Holmikuum and Crane in order to transfer water --- FW to put in for \$\$ for installation.

Annual Operational Plan: 1992

= late dyke mowing
Aug 1 - 15

||||| = early dyke mowing

Keep sloughs out of control 5 until Aug 1.
Set Aug 1 to catch early run-off for reflood of compartments
Pull to 0.0 for winter

clear ditch to Control 4 to facilitate Katzic drawdown

Katzic: Keep sll out and water level as low as possible all year.

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Keep control 7 as high as possible to prevent draining into Katzic.

Use pool area to reflood Pitt in spring after burn.

Pitt: burn in spring; reflood, drawdown after freshet

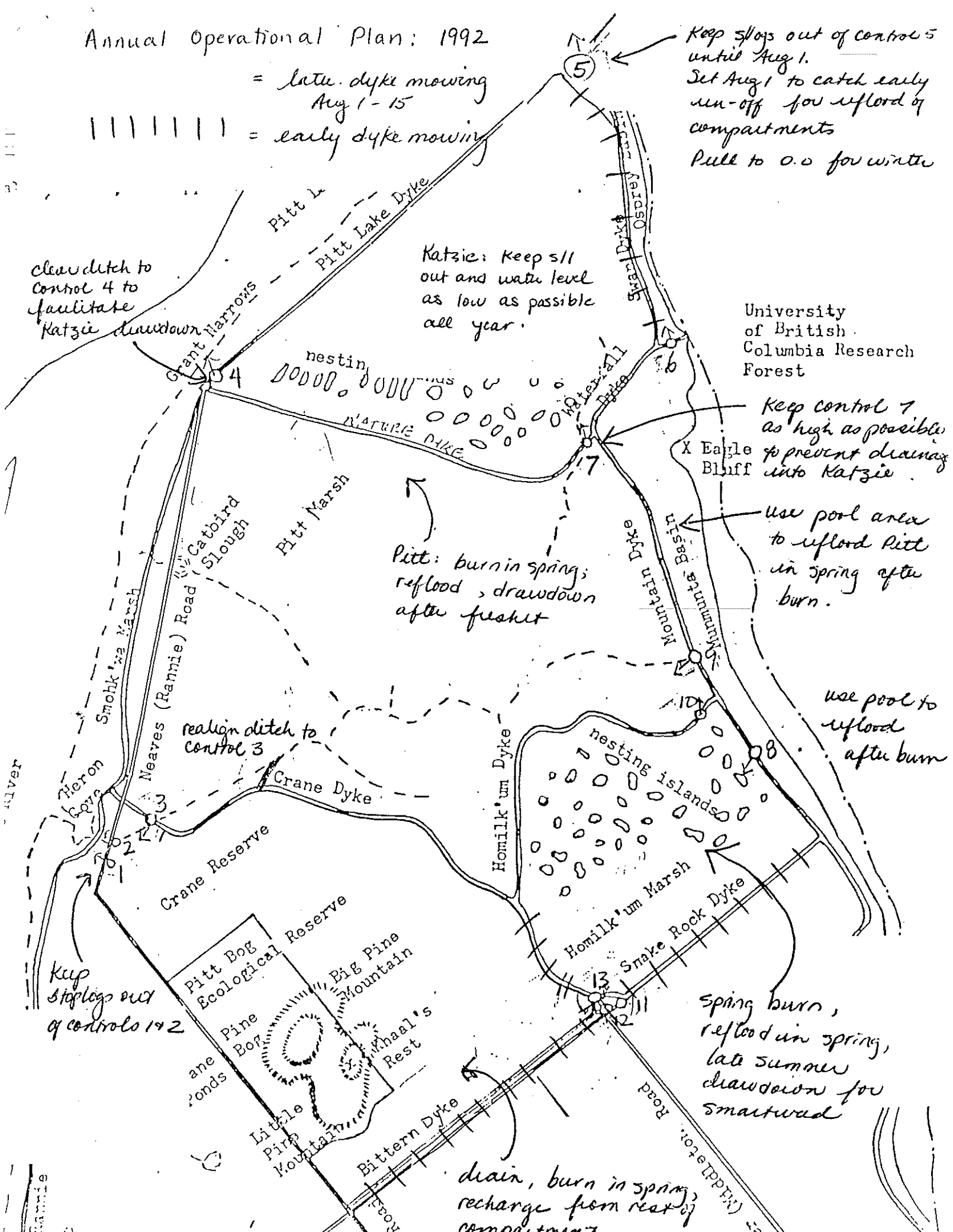
use pool to reflood after burn

realign ditch to control 3

Keep stoplogs out of controls 1 & 2

Spring burn, reflood in spring, late summer drawdown for smaltweed

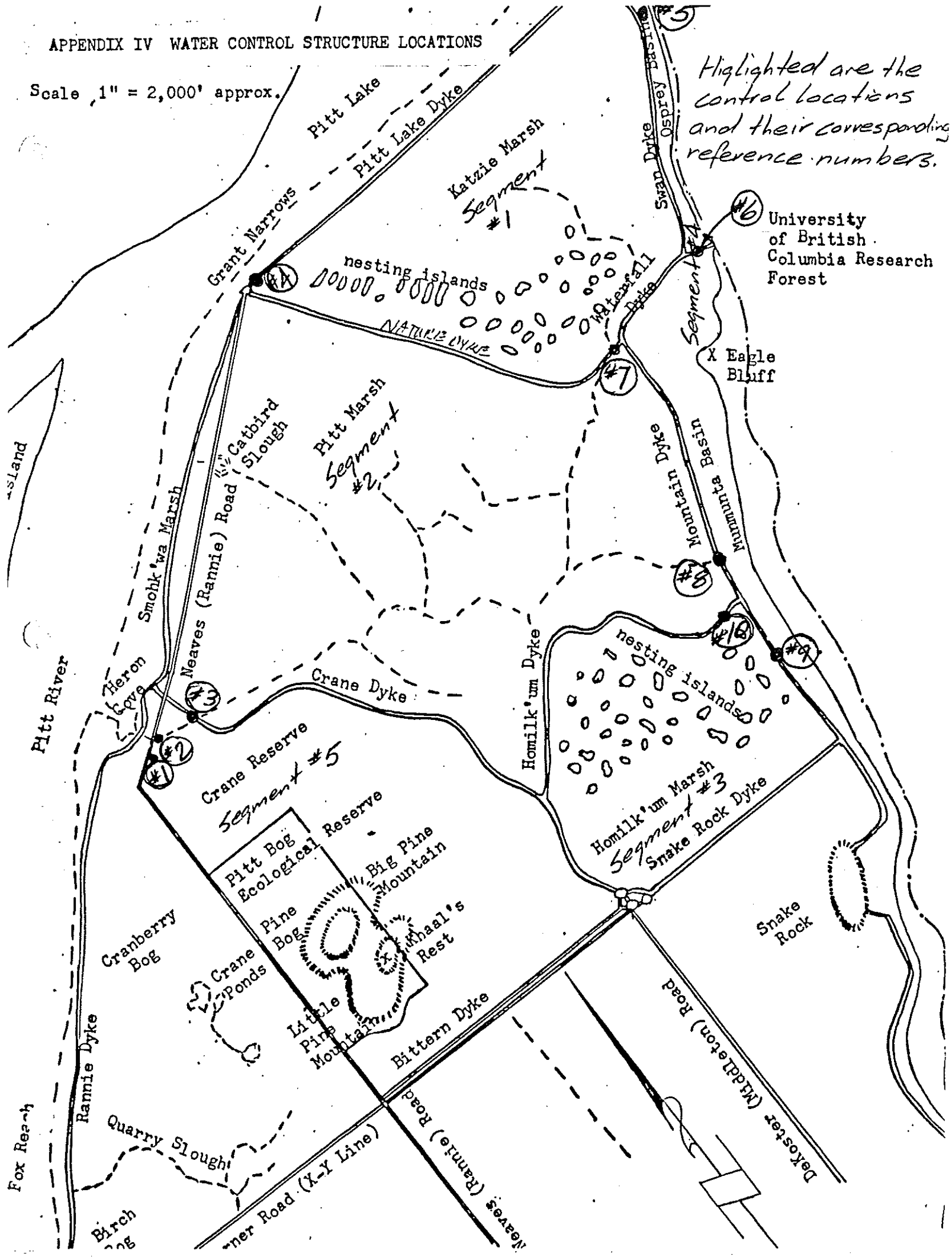
drain, burn in spring, recharge from rest of compartment



APPENDIX IV WATER CONTROL STRUCTURE LOCATIONS

Scale 1" = 2,000' approx.

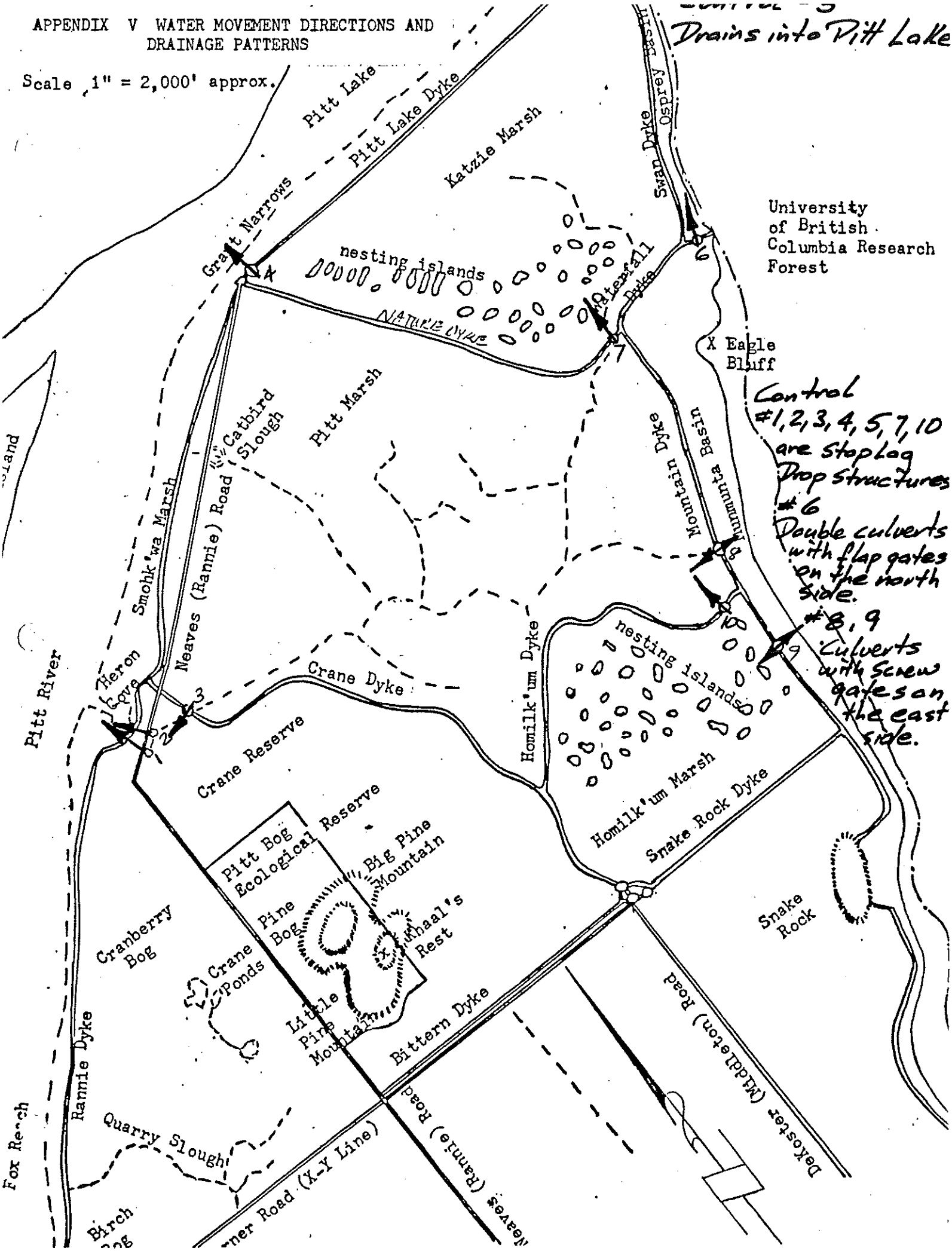
Highlighted are the control locations and their corresponding reference numbers.



APPENDIX V WATER MOVEMENT DIRECTIONS AND DRAINAGE PATTERNS

Scale 1" = 2,000' approx.

Drains into Pitt Lake



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X Eagle Bluff

Control #1, 2, 3, 4, 5, 7, 10 are stoplog Drop structures

#6 Double culverts with flap gates on the north side.

#8, 9 Culverts with screw gates on the east side.

part of

Fox Reach

Birch bog

Cranberry Bog

Quarry Slough

Birch bog

Crane Ponds

Pitt Bog Ecological Reserve

Pine Bog

Little Pine Mountain

Big Pine Mountain

Thaal's Rest

Bittern Dyke

Neaves (Rannie) Road

Crane Reserve

Crane Dyke

1/2 Catbird Slough

Pitt Marsh

Pitt Lake Dyke

Katzie Marsh

nesting islands

NATURE DYKE

Homilk'um Dyke

Homilk'um Marsh

Snake Rock Dyke

Snake Rock

Mountain Dyke

Mountain Basin

Swan Dyke

Osprey Basin

Waterfall Dyke

Grant Narrows

Heron Cove

Smohk'wa Marsh

Neaves (Rannie) Road

Pitt River

Middleton Road

X-Y Line

Pitt Marsh.

Control No.	Stop Log		C.M.P.	
	Dia.	Top Elev.	Dia.	Inu. Elev.
#1	72 inch	+ 1.55 m	(wood) 36 inch	- 0.64 m
#2	72 inch	+ 1.46 m	(wood) 36 inch	- 0.85 m
#3	72 inch	+ 2.62 m	48 inch	- 0.49 m
#4	72 inch	+ 2.59 m	48 inch	- 0.61 m
#5 East	72 inch	+ 3.17 m	48 inch	- 0.06 m
#5 West	72 inch	+ 3.11 m	48 inch	- 0.06 m
#6 East	N/A	N/A	48 inch	- 0.36 m
#6 West	N/A	N/A	48 inch	- 0.32 m
#7	72 inch	+ 2.53 m	48 inch	- 0.46 m
#10	72 inch	+ 3.20 m.	48 inch	+ 0.76 m

F.S.L. Information

Areas

Kateie Marsh - + 1.0 m	213.7 ha / 528.1 ac
Pitt Marsh - + 1.5 m	399.8 ha / 987.9 ac
Hamil K'um Marsh - + 2.0 m	123.0 ha / 303.9 ac
Monmanta - + 1.5 m	56.7 ha / 140.1 ac
Crane Reserve - + 1.0 m	234.7 ha / 580.0 ac



DESIGN
NOTES

Ducks Unlimited Canada

PROJECT: _____

SUBJECT: _____

FILE NO: _____ DATE _____

BY: _____ CHECKED: _____ SHEET: 1 OF: _____

APPENDIX II DESCRIPTION OF PITT/ADDINGTON W.M.A.

This is Schedule A referred to in the attached agreement between HER MAJESTY THE QUEEN IN RIGHT OF THE PROVINCE OF BRITISH COLUMBIA and DUCKS UNLIMITED CANADA dated the 7th day of SEPTEMBER, 19 84.

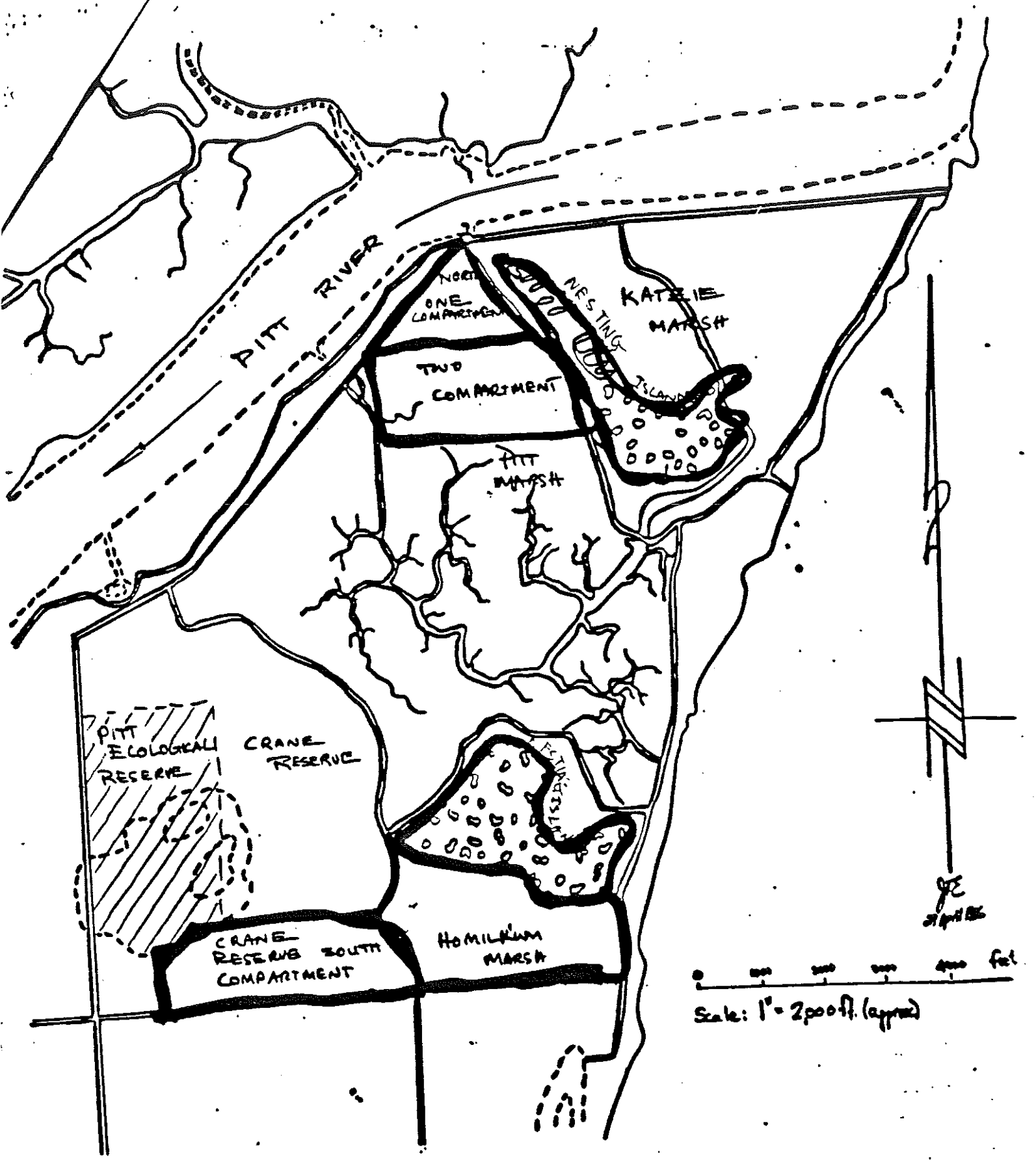
PROJECT PLAN/PROPOSAL


- A. PROJECT NAME - Pitt Wildlife Management Area (P.W.M.A.)
- B. LOCATION - 35 Kilometers east of Vancouver at the South end of Pitt Lake.
 - legally described as on Schedule B attached.
 - UTM coordinates - 10 5280 54630
- C. ACCESS - Via Neaves Road from Highway 7 (Lougheed Hwy)
- D. PROJECT PARAMETERS

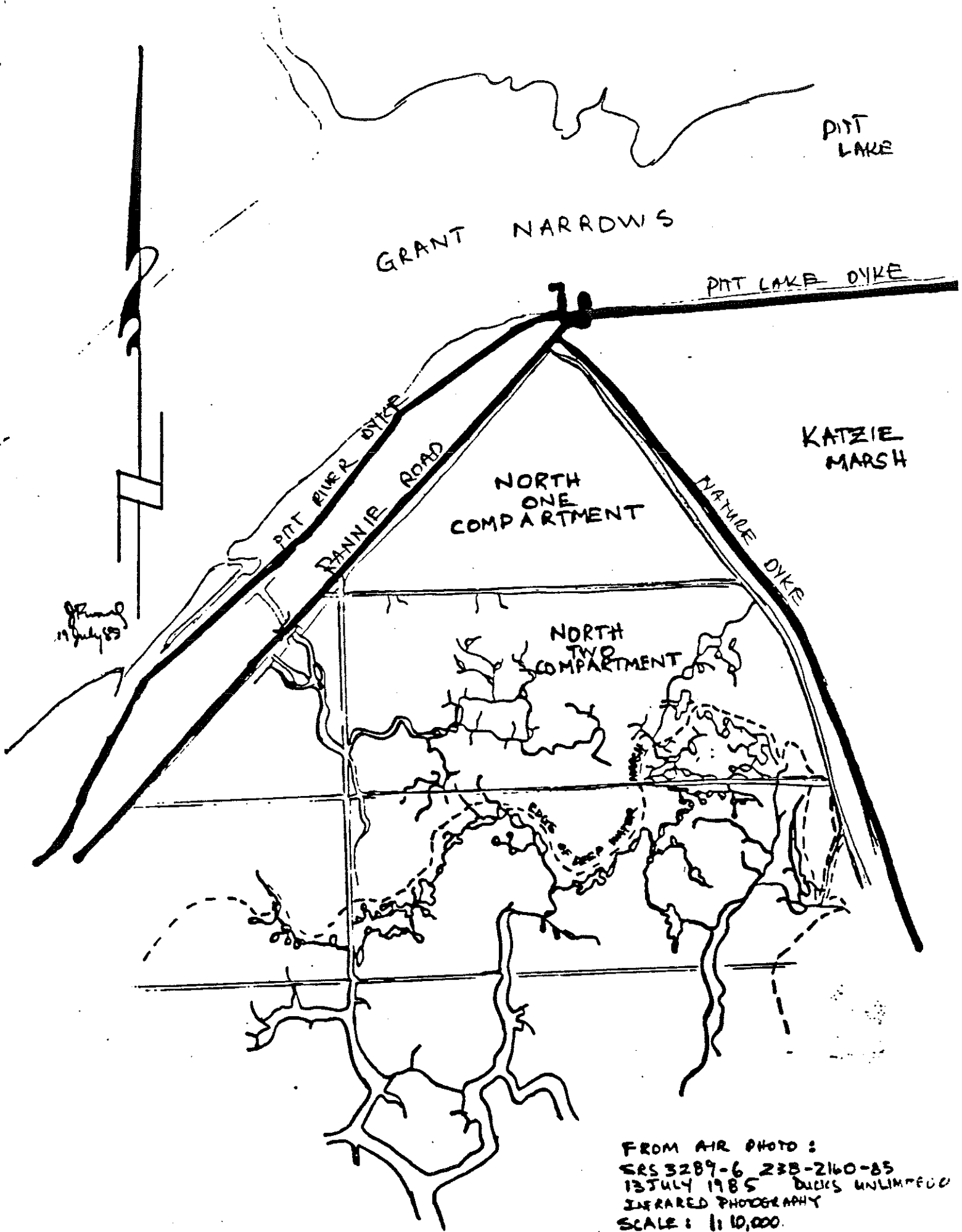
TABLE 1 - Pitt Wildlife Management Area: Segment Parameters

Segment Number	Name	F.S.L. Area (ha)	F.S.L. Elev (m)	Shoreline (km)
1	KATZIE MARSH (Wildlife Reserve)	213.7	528.1 ac 1.0	4.02
2	PITT MARSH	399.8	987.9 ac 1.5	22.8
3	HOMILK'UM MARSH (Pitt Sub-Compartment)	123.0	303.9 ac 2.0	5.15
4	MUNMUNTA, OSPREY BASIN (Pool Area)	56.7	140.1 ac 1.5	14.0
5	CRANE RESERVE	234.7	580.0 ac 1.0	9.9
TOTAL AREA INCLUDED IN THE ATTACHED AGREEMENT		1027.9 ha.	2540.0 ac	55.8 km.

Full storage level (F.S.L.) datum is geodetic



 bounds of treatment areas



17 July 85

FROM AIR PHOTO :
SRS 3289-6 238-2160-85
13 JULY 1985 DUCKS UNLIMITED
INFRARED PHOTOGRAPHY
SCALE : 1:10,000