NORTH POINT ENGINEERING
6657 Frank Ave NW, Suite 200
North Canton, Ohio 44720
P: 330.494.8888
F: 330.494.8889

Project Client: Ringler Swine
Project Name:
Project Number:
Subject: Volume of existing lagoons

Calcs By: [illegible] Date: 10/13/7[illegible]
Checked By: Date:
Page 1 of 3

- CALCULATE storage and treatment volume of existing lagoons - North + South.

- See attached sheets 2 and 3

top inside top berm area = 540' × 340' = 183,600 ft²

area @ MOL (-1.4') = 532' × 332' = 176,624 ft²

area @ floor (-12' from MOL) = 460' × 260' = 119,600 ft²

area @ bottom of storage (-4' from MOL) = 508' × 308' = 156,464 ft²

"STORAGE" Volume = $\frac{176,624 + 156,464}{2}$ = 166,544 ft² × 4' × 7.48
= 4,983,000 gal

"TREATMENT" Volume = $\frac{156,464 + 119600}{2}$ = 138,032 × 8 × 7.48
= 8,260,000 gal

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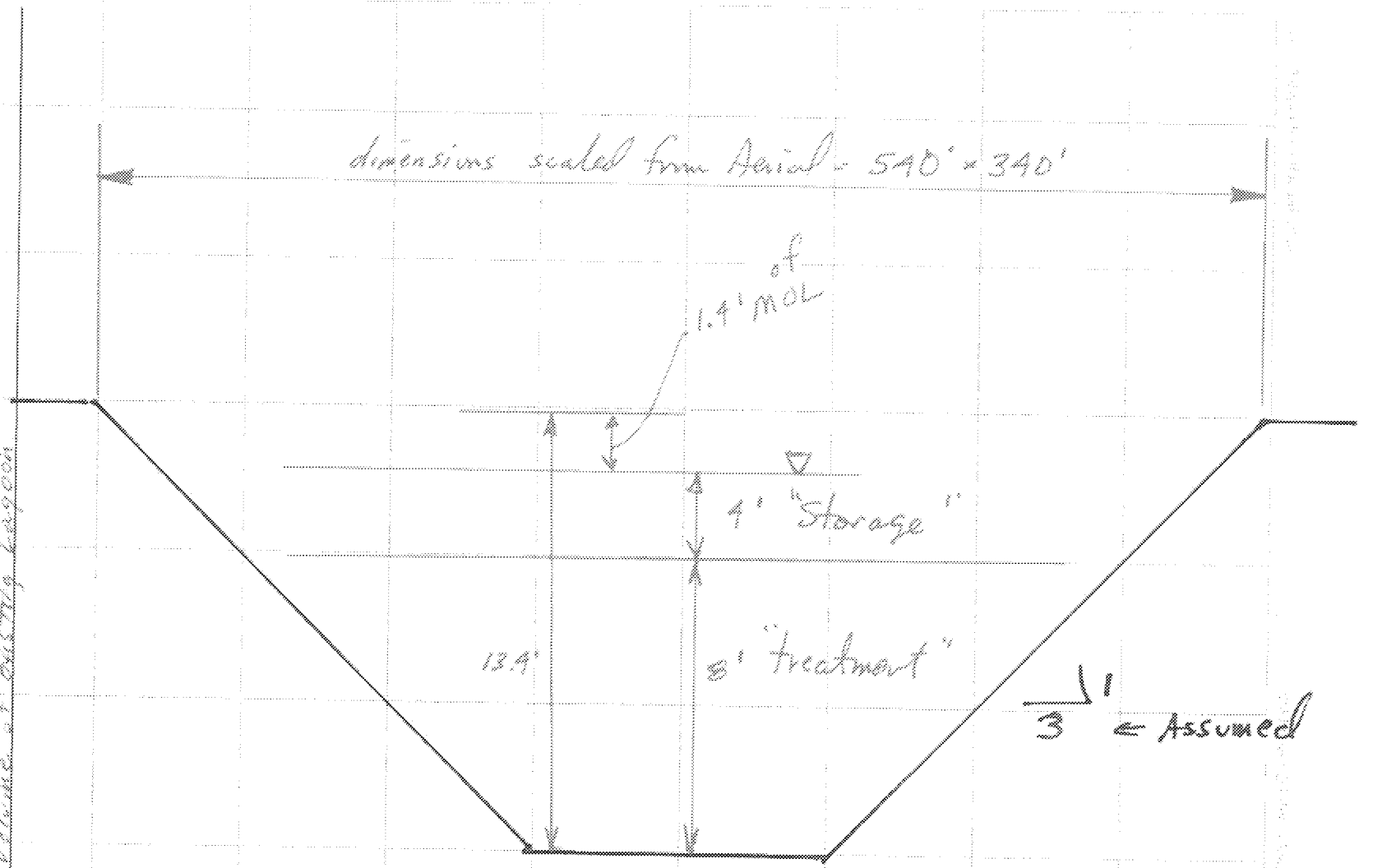
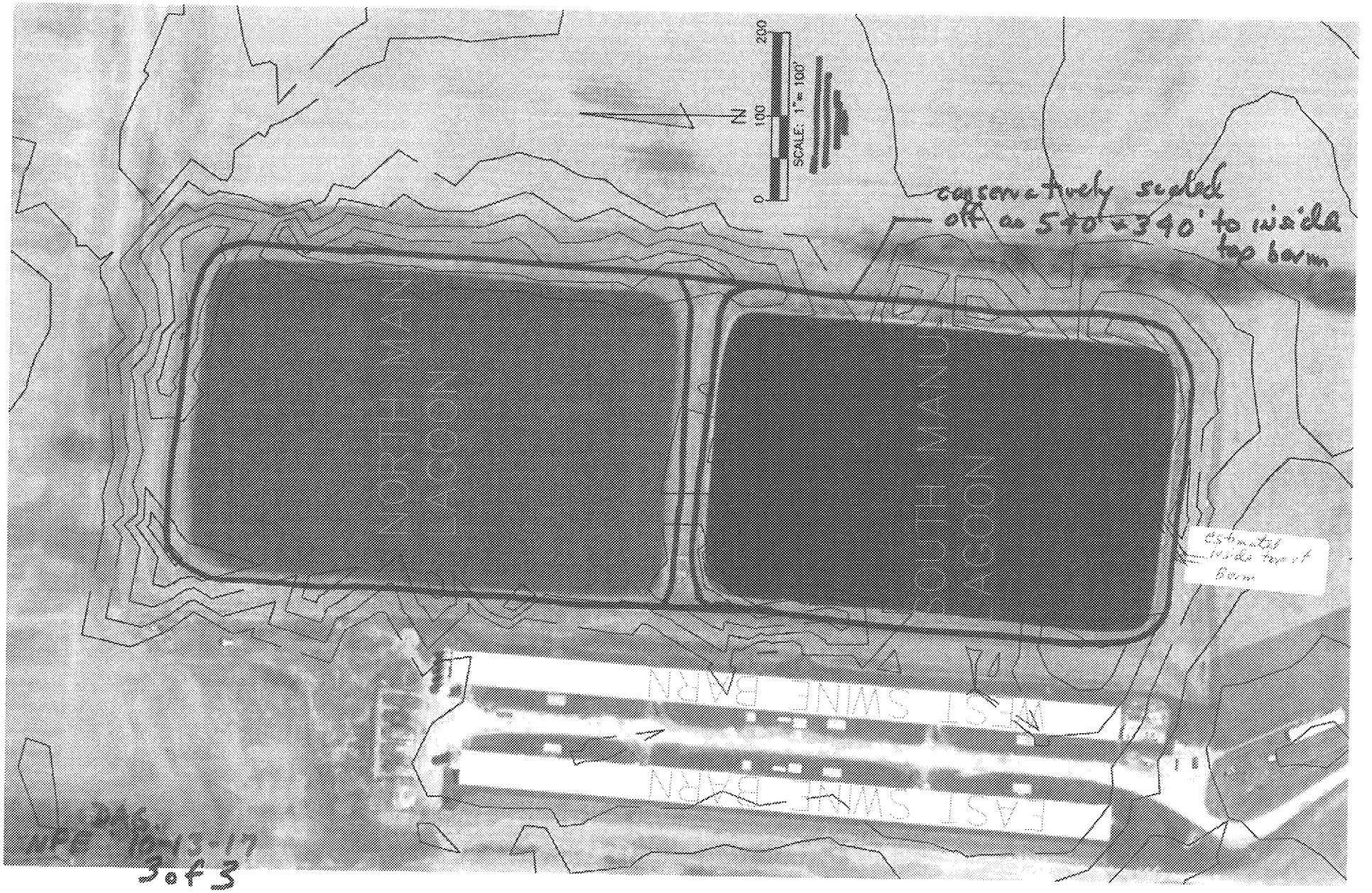
Project Client: Ringler Swine Farm
Project Name: Steamtown Lagoon Volumes
Project Number: R6E005.1
Subject: Calc Volume of existing Lagoon

Calcs By: DC Date: 10-13-17
Checked By: Date:
Page 2 of 3



existing north and south lagoons approx. same size

- pond depth taken from ODA comments


N
0
100
200
SCALE: 1" = 100'
conservatively scaled off as 540' x 340' to inside top berm
estimated inside top of Berm
WEST SWINE BARN
EAST SWINE BARN
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