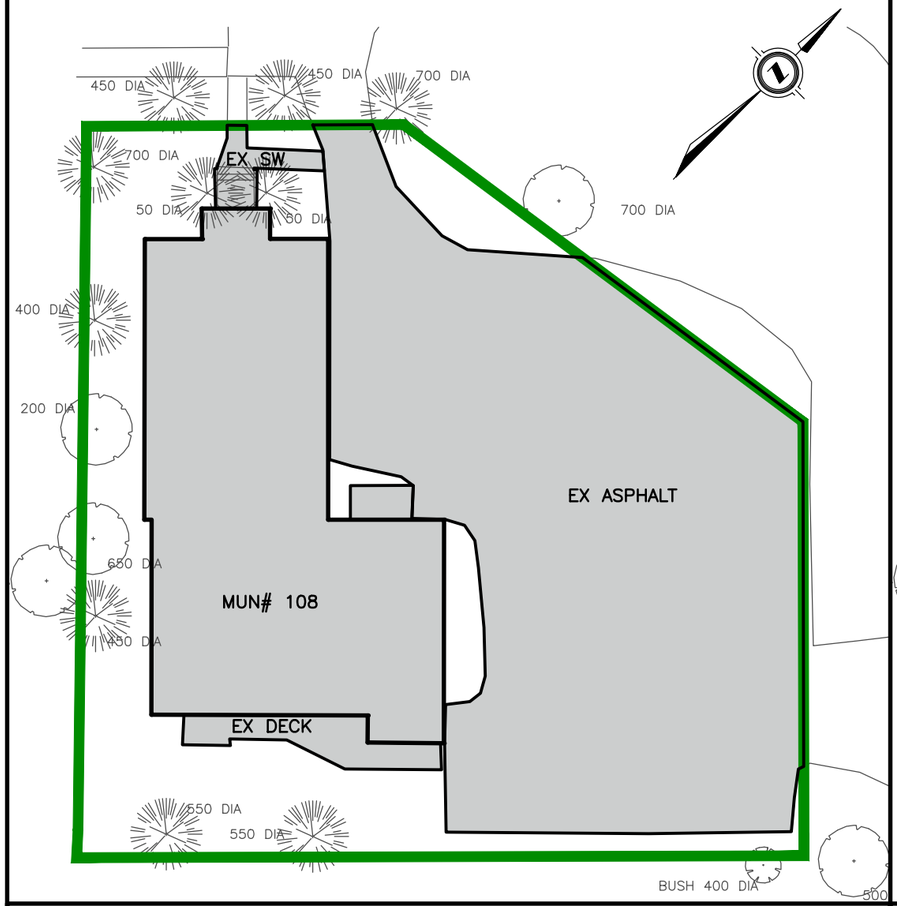
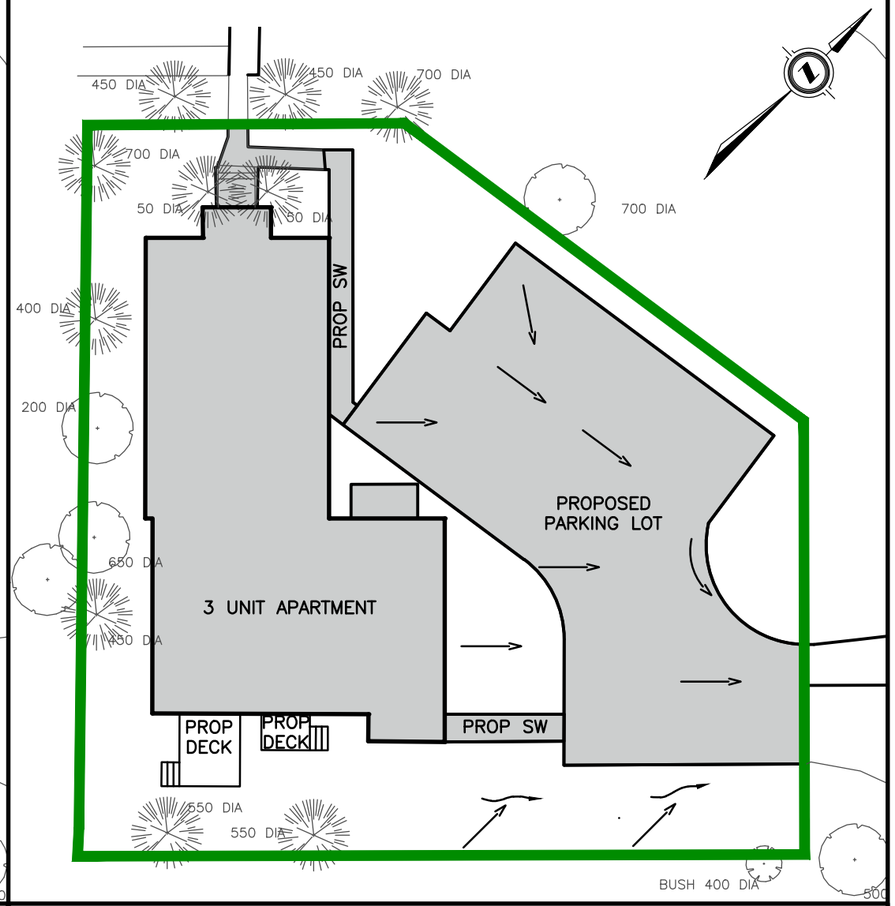
EXISTING CONDITION



PROPOSED CONDITION



EXISTING CONDITION
COMPOSITE RUN-OFF CALCULATION

AREA OF HARD SURFACE = 874.9m²
AREA OF GRASS SURFACE = 308.7m²
TOTAL DRAINAGE AREA = 1183.6m²

$$C_{COMPOSITE} = \frac{(C_{GRASS} \times AREA_{GRASS}) + (C_{HARD} \times AREA_{HARD})}{AREA_{TOTAL}}$$

$$C_{COMPOSITE} = \frac{(0.2 \times 308.7m^2) + (0.9 \times 874.9m^2)}{1183.6m^2}$$

$$C_{COMPOSITE} = 0.72$$

PROPOSED CONDITION
COMPOSITE RUN-OFF CALCULATION

AREA OF HARD SURFACE = 636.7m²
AREA OF GRASS SURFACE = 546.9m²
TOTAL DRAINAGE AREA = 1183.6m²

$$C_{COMPOSITE} = \frac{(C_{GRASS} \times AREA_{GRASS}) + (C_{HARD} \times AREA_{HARD})}{AREA_{TOTAL}}$$

$$C_{COMPOSITE} = \frac{(0.2 \times 546.9m^2) + (0.9 \times 636.7m^2)}{1183.6m^2}$$

$$C_{COMPOSITE} = 0.58$$

LEGEND

- PROPOSED DIRECTION OF SURFACE FLOW
- PROPOSED SWALE
- HARD SURFACE AREA
- DRAINAGE AREA BOUNDARY

TYPICAL C–VALUES
HARD SURFACE = 0.9
GRASS SURFACE = 0.2

NOTE:
THE RUNOFF COEFFICIENT (C) IS LOWER UNDER THE PROPOSED CONDITION AS THE AMOUNT OF HARD SURFACE WILL BE REDUCED ONSITE. STORMWATER RUNOFF FROM THE SITE WILL THEREFORE BE REDUCED. AS SUCH, STORMWATER MANAGEMENT CONTROLS ARE NOT REQUIRED.

108 ST. CLAIR AVENUE

STORMWATER RUN-OFF COEFFICIENT COMPARISON

SCALE 1:300
DATE: NOVEMBER 2021

AGM PLAN • SURVEY • ENGINEER
ARCHIBALD, GRAY & McKAY ENGINEERING LTD.
3514 WHITE OAK ROAD, LONDON, ON, N6E 2Z9
PHONE 519-685-5300 FAX 519-685-5303
EMAIL info@agm.on.ca WEB www.agm.on.ca

Plot date: Nov 26, 2021 F:\Projects\K\komoka\Ko\KO-0076\KO-0076-02\KO-0076-02-4\Eng 1000-231\CAD2019\BASE 1000-231.dwg