7.2 Trees on Public & Private Property October 29, 2024, Urban Planning Committee

2024 PARKALLEN INFILL CASE STUDY

Pre-Infill



Same Site - Post Infill



PRE-DEVELOPMENT SITE at 11143 70 Avenue

Mature Site

80% Vegetation & Under Built!



VEGETATION COVER

80%
Deep topsoil > 1 m

TREE CANOPY

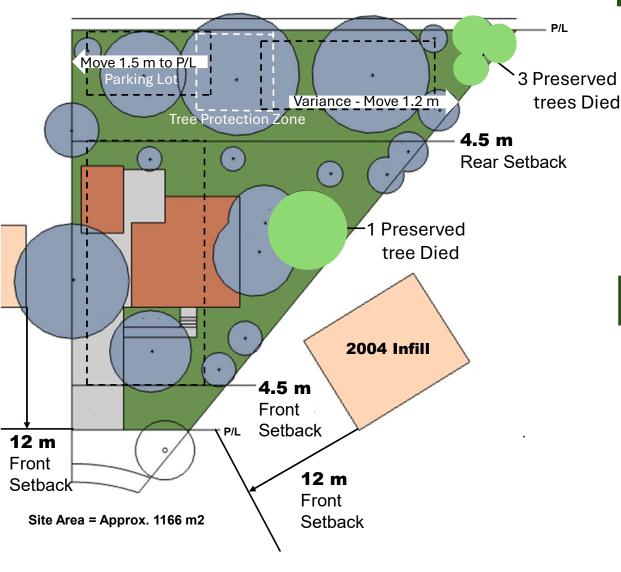
50%
Mature Tree Canopy

IMPERVIOUS COVERAGE

20% Impervious Buildings & Hard Surfaces



PRE-DEVELOPMENT SITE PLAN



Assets - Nature Based Solutions

1 m Topsoil to 100 to 150 mm Min.

NET LOSS - 85 to 90 mm

Vegetation Cover reduced 80% to 30% SLA

NET LOSS – 50% Vegetation Cover

18 Mature Trees Removed

4 Preserved trees died & later removed

NET LOSS - 22 Trees / 50% Site Area

Assets – Development

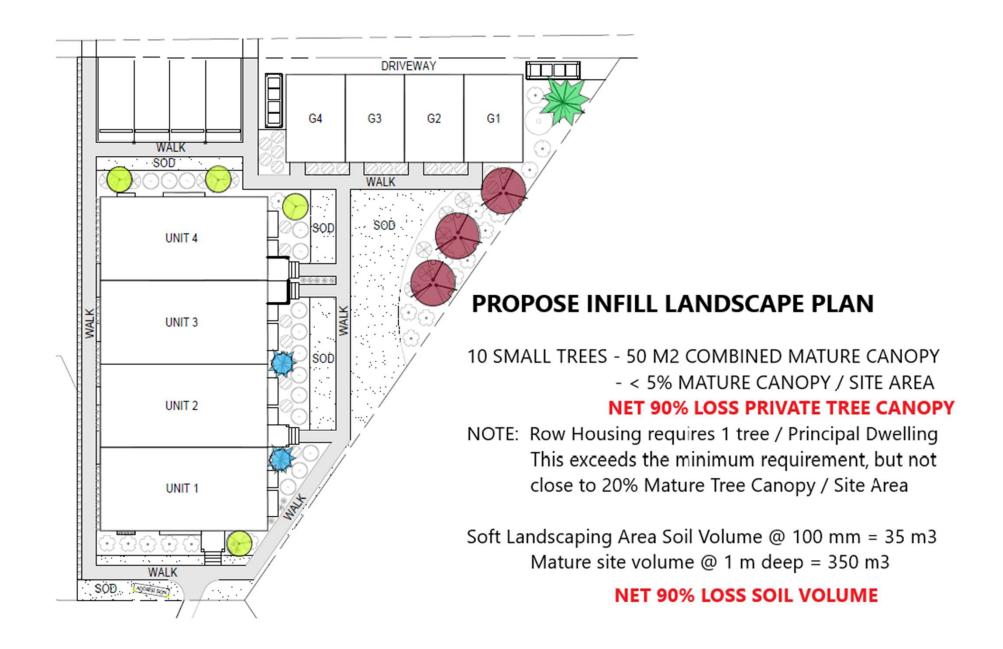
20% Mature Development - 1 Dwelling

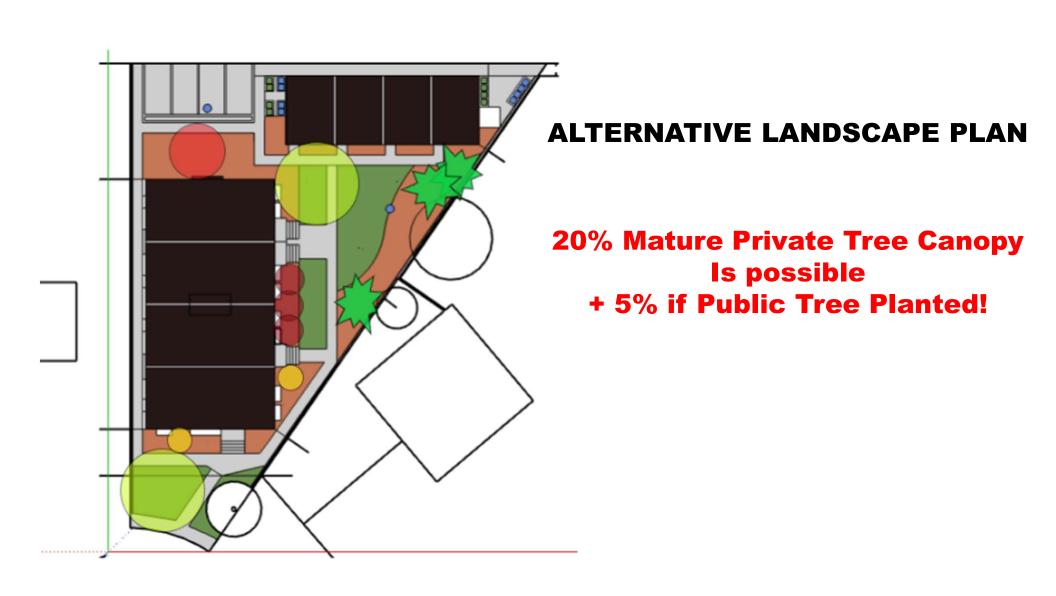
45% New Infill Development - 8 Dwellings

NET INCREASE - 225% + 7 Dwellings

4 Outdoor + 4 Indoor Parking Spaces

NET INCREASE in parking



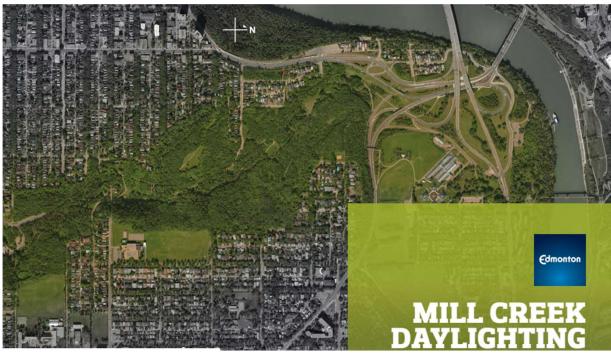




Rain Gardens for Resilience – Designed by Jan Hardstaff for ALIDP, 2017



Erosion of Millcreek Ravine, 2024 that is related to increased development imperviousness and increasing impacts of climate change & extreme rainfall events. Further damage must be mitigated.



Proposal to daylight Millcreek Ravine to restore its ecological function and provide green infrastructure.

Protecting & Restoring the Watershed