- the tree protection fencing and CRZ of the trees within the fencing:
  a. Do not place any material or equipment within the CRZ of the tra
  b. Do not attach any signs, notices, or posters to any tree;
  c. Do not raise or lower the existing grade within the CRZ without a
  d. Tunnel or bore when digging within the CRZ of a tree;
  e. Do not damage the root system, trunk, or branches of any tree;
  f. Ensure that exhaust fumes from all equipment are not directed to the trunk or branches of the trunk or branches of the true that exhaust fumes from all equipment are not directed to the true of the Tree Protection Fencing at least 1 metre in height will be erected along the outer edge of the tree retention centimetre of trunk diameter at breast height (dbh) or DBH x 10 cm. The following must be observed within where critical root zone is established as being 10 centimeters from the trunk of the tree for every zone is defined as the edge of the critical root zone (CRZ) of the trees that form the edge of the buffer zone limit of development. The fencing location is shown as indicated on the plan. The outside edge of the buffer areas (the edge of the 6 m buffer, around the retained Butternut Trees, the edge of the open space/tree areas where Chain Link fencing has been installed along the property line, this fencing will also function as and the edges of the turtle fencing corridors). The fencing location is shown as indicated on the plan. In retention areas/NEAs where there is not a buffer, the edges of the Goulbourn Forced Road Right of Way, Tree Protection Fencing. In areas without Chain Link fencing, Snow Fencing will be installed to delineate the Do not place any material or equipment within the CRZ of the tree;

  - Do not raise or lower the existing grade within the CRZ without approval;
- Ensure that exhaust fumes from all equipment are not directed towards any tree's canopy.
- 2 fencing corridors must be staked out (and flagged high) by a surveyor prior to the setup of tree protection fencing so that the tree fencing location can be confirmed. A site visit must be organized with the City's The boundaries of the NEA lands, open space blocks, Goulbourn Forced Road Right of Way, and turtle Planning Forester to check the staked lines.
- ω Prior to tree removal on the Site, a Site visit with the City's Planning Forester will be facilitated to verify the tree protection fencing.
- 4 to begin Woodchips will be placed on the development side of the tree protection fencing when construction is due
- <del>ب</del> No in-stream works will occur within the watercourse between March 15th and June 30th. In water work is subject to the specific timing restrictions outlined for Blanding's Turtle in the Endangered Species Act Permit work. for the Site. Contact the project SAR Biologist for further information prior to commencing any in water
- 6 No blasting will occur on the Site until the Blasting Plan has been reviewed and approved by the City
- 7. Permit has been issued by the Ontario Ministry of Natural Resources and Forestry. Butternut Trees that are scheduled to be retained are showed on the attached. There will be no activity within the 25 m radius around Butternut Trees until an Endangered Species Act
- 00 A certified arborist or forester will be contacted to make recommendations regarding tree retention within the 6 metre buffer zone. These tree retention recommendations shall be made in the context of the approved grading and servicing plan. The trees to be retained in the buffer zone will be clearly marked with flagging tape.
- 9 retained within the buffer zone and prior to any blasting on Site. The tree protection requirements outlined Tree protection fencing at least 1 m in height will be erected at the critical root zone of the trees to be

any operations. are felled away from the retained trees and no damage occurs to the trees or their critical root zones during within the buffer zone, careful logging techniques must be used around the retained trees so that all stems in #1 above will be applied to the retained trees within the buffer zone. When the other trees are removed

- 10. within the buffer zone, a site visit with the City's Planning Forester will be facilitated to approve the tree retention plan and to verify the related tree protection measures, which will likely require more tree Prior to removal of any trees within the buffer zone and following the identification of the retained trees construction, to adequately protect those areas. protection fencing to be erected along the edge of the NEA/Open Space/tree retention areas, prior to
- 11. Where blasting is required in areas adjacent to the tree protection zones and their respective buffer zones, consideration will be made to increase the width of the buffer zone to protect the tree protection zone. For create a crack between the trees' CRZ perimeter (as defined in #1 above) and the blasting work. The ground retaining root-soil contacts during blasting. around the trees adjacent to the blast area must be moistened to increase soil adhesion and assist in blasting in areas adjacent to the tree protection zones and their buffers, the rock must be pre-sheared to consideration will be made to increase the width of the buffer zone to protect the tree protection zone.
- 12. Blasting may be required within the 6 m buffer zone as part of final grading. If it is anticipated that any of the tree protection zones or any of the retained trees within the buffer may be affected by blasting on site site in need of tree planting. The seedlings shall be transplanted in the early spring, before budding out. cannot be retained within tree protection zones because of blasting shall be transplanted to other areas on outlined in #11 above will be implemented. In addition, under the direction of an arborist, seedlings that of the blasting to discuss. If blasting is required within the 6 m buffer zone, the blasting mitigation measures or if blasting is required within the 6 m buffer zone, the City's Planning Forester will be contacted in advance
- 13. KNL will provide the City's Planning Forester with advance notice of three full working days for the required site visits.
- 14. The trees along the existing Shirley's Brook will be protected at this time and these trees will be removed upon successful commissioning of the new Shirley's Brook watercourse.

## Wildlife Mitigation Measures

- ۲ must be completed before April 15th or after August 15th. Trees with active nests or occupied cavities should be left overnight to allow wildlife to vacate them prior to cutting. A qualified wildlife biologist For the protection of breeding birds and other wildlife all woody vegetation removal (trees and shrubs) cutting. a qualified wildlife biologist for the transportation, care, or euthanization of wildlife injured during should be on call during cutting to respond to injured wildlife. A contingency plan should be prepared by
- 2 from adjacent turtle habitat Vegetation clearing close to known Blanding's Turtle habitat features must avoid the active season (Apri 15th to October 16th) unless turtle exclusion fencing has been put in place to isolate those work areas
- to isolate the work area from turtles. Where it is not feasible to erect permanent turtle fencing barriers, temporary turtle exclusion barriers (e.g. toed-in silt fencing) will be utilized instead and will be installed Wherever possible, permanent turtle exclusion fencing will be erected prior to April 15th, 2017 in order prior to April 15th, 2017.

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- 4 Refer to the Endangered Spec both a permanent and tempo
- Following installation of turtle

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- area. overwintering season (Octobe
- Construction stage monitoring features, or dewatering works a qualified professional or qua

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- 7. If at any time Blanding's Turtle proceed. activity must be stopped imm
- 00
- 9. qualified professional or quali
- Prior to completing the installa stressing and cutting should m

10.

11. the directi

through the site in

- mitigation for endangered or
- Species at Risk Act prior to cut detail regarding the species

rary turtle exclusion fencing. ies Act Permit for a description of the types of fencing which may be used

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commencement of tree clearing. This must include a pre-clearing vegetation sweep to ensure no turtles are present within the turtle exclusion area. Turtle exclusion fencing should be installed during the inspected by a qualified professional, as defined by Endangered Species Act Permit, prior to r 16th to April 15th) to ensure turtles are not trapped within the isolated exclusion fencing, the fencing and proposed tree clearing areas must be

any site clearing, site preparation, fencing, construction of habitat enhancement features, new habitat lified member, as defined by the Endangered Species Act Permit, during for Blanding's Turtle, will consist of, at a minimum, weekly inspections by

e or another species at risk are noted in the vicinity of tree clearing, this rediately and the qualified professional must be contacted to advise how đ

Blanding's Turtle and other wildlife must not be relocated by the contractor, unless there is an immediate and unavoidable danger to the animal's safety. Turtle relocation is to be completed by a ied member, as defined by the Endangered Species Act Permit.

should be pre-stressed by traversing the site using noise (voice and/or a loud radio) to attempt to relocate wildlife to the central and west portions of the Urban Natural Areas. For Phase 7, pre-stressing and cutting should start in the north and move south towards the NEA (Kizell Cell). For Phase 8, preove from west to east, towards the Trillium Woods. tion of construction fencing, the area of woody vegetation removal

flexible material such as silt fencing or orange plastic fencing. The construction fencing around the Site should be no more than 1.5 meters in height and made of

Tree removal and other site disturbances for Phase 7 should begin in the north and move south towards should be phased, beginning at the far limits of the site, which are presently disturbed, and working the NEA and for Phase 8 should begin in the west and move east towards the Trillium Woods. Work on of the remaining Urban Natural Areas and green space connections

12. The Contractor must consult with the landowner's qualified professional regarding any necessary threatened species under the Endangered Species Act 2007 and the risk mitigation plan ting. Please contact the project's qualified professional for additional

Drawing Title

## TREE PRESERVATION PLAN FOR KNL PHASES 7 & 8: NOTES

Project Title

KNL DEVELOPMENT PHASES 7 & 8

Sheet No

SHEET 2 OF 2 2016/12/19

**FINAL**