



# Environmental Group

Knox United Church Site Redesign

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# Themes from the Workshop

- Energy Efficiency
- Gardens
- Green Space
- Trees
- Property Maintenance
- Parking
- Renewable Energy
- Drainage



# Energy Efficiency

- The primary theme which came from the workshop.
  - Retrofitting
  - Efficiency audit
  - LEED Certification



See slide 3 reference for image source

# Community Gardens

- Re-naturalization and establishment of an ecological restoration zone at the back of the site.
  - Trees
  - Shrubbery
  - Flowers
  - Produce



See slide 4 reference for image source



# Green Space

- Landscaping and natural elements:
  - Greenhouses
  - Green roofs
  - Outdoor patio seating
  - Playground



See slide 5 reference for image source

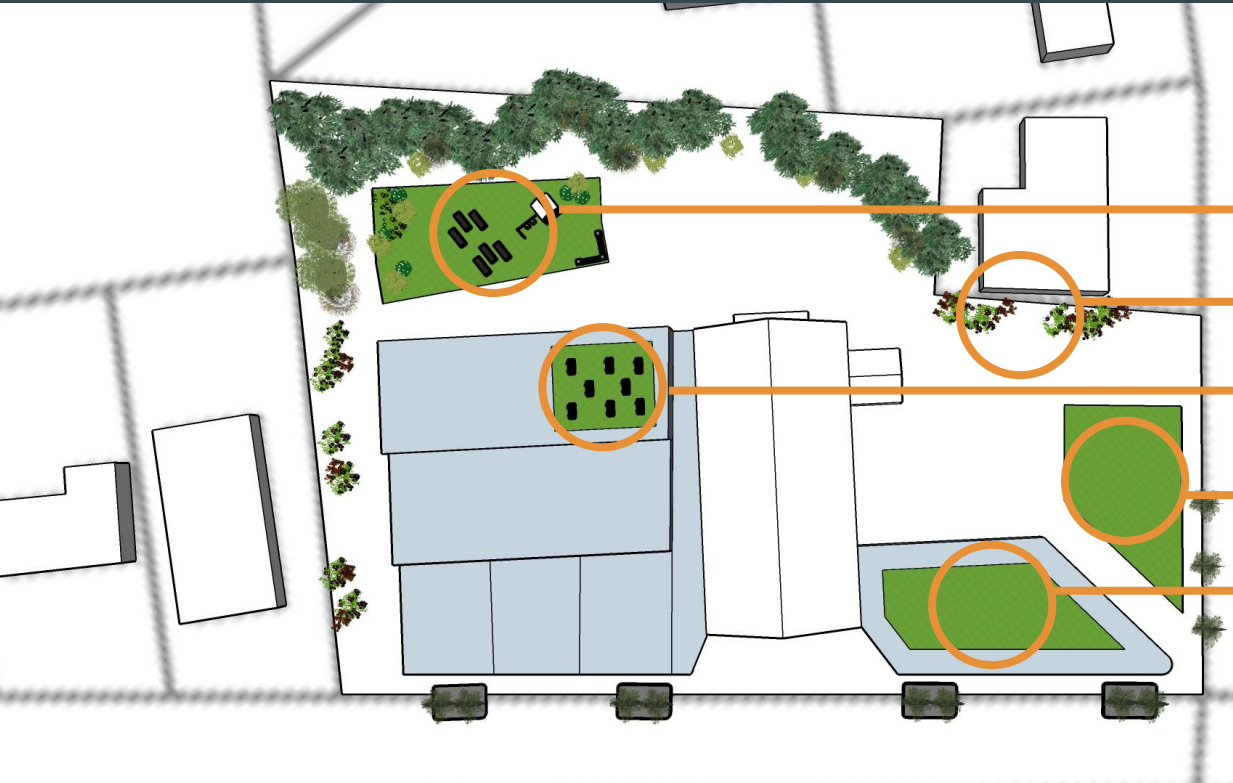
# Plant Species

- Ground Cover:
  - White Clover
  - Yellow Clover
  - Red Clover
- Drainage:
  - Merry Bells
  - Turtle Head
- Shrubs:
  - Wild Rose
  - Winter bush



See slide 6 reference for image source

# Concept Plan



Multipurpose greenspace

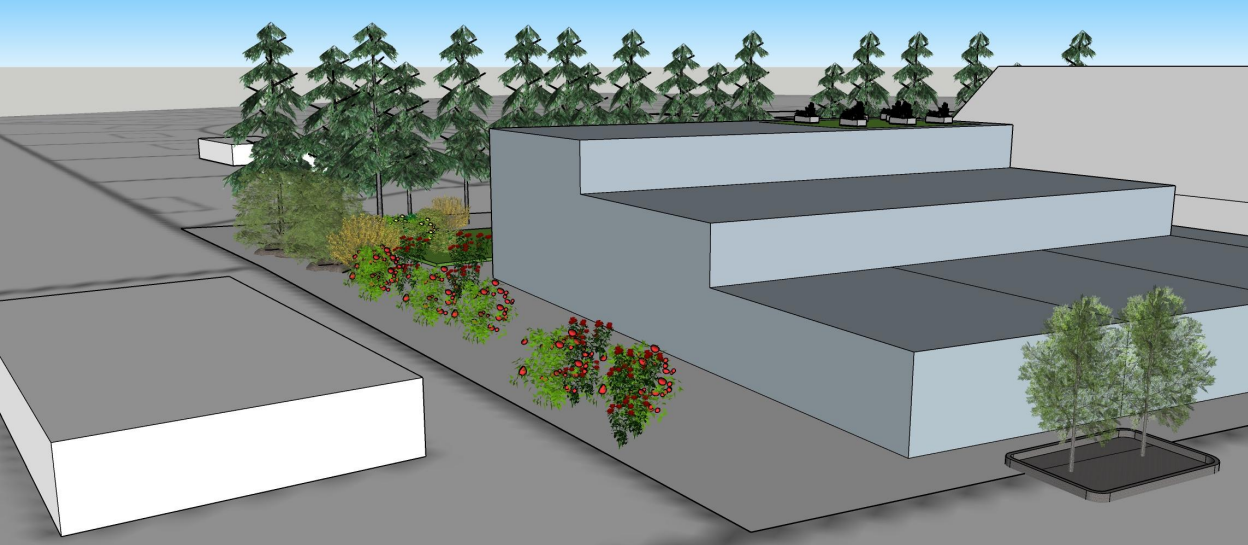
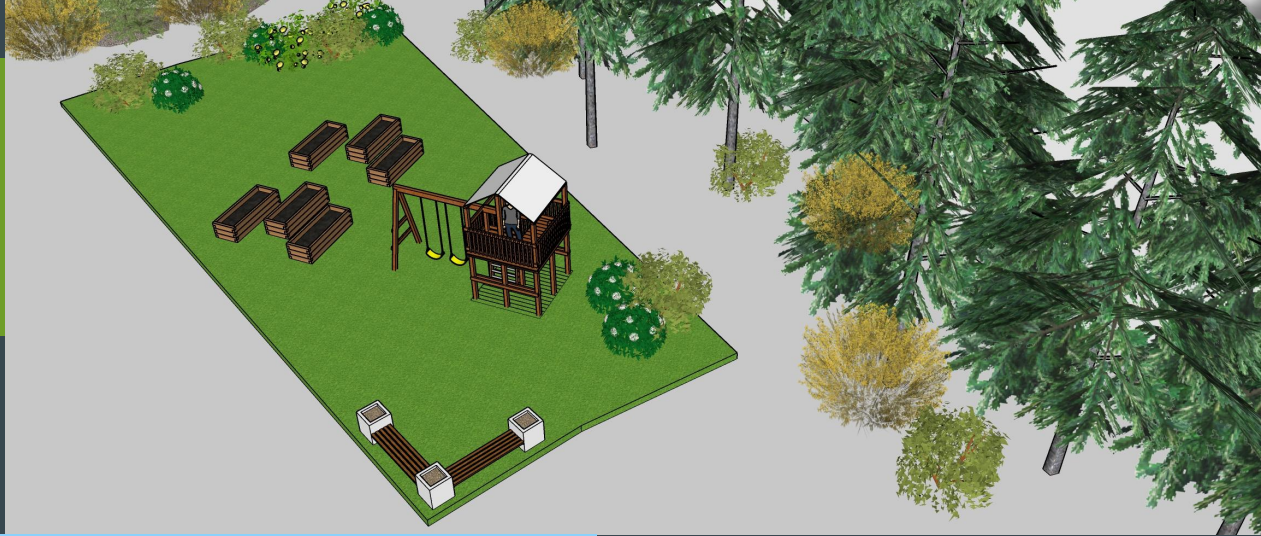
Hill-stabilizing plants

Rooftop garden

Open space

Green roof

# Key Design Features

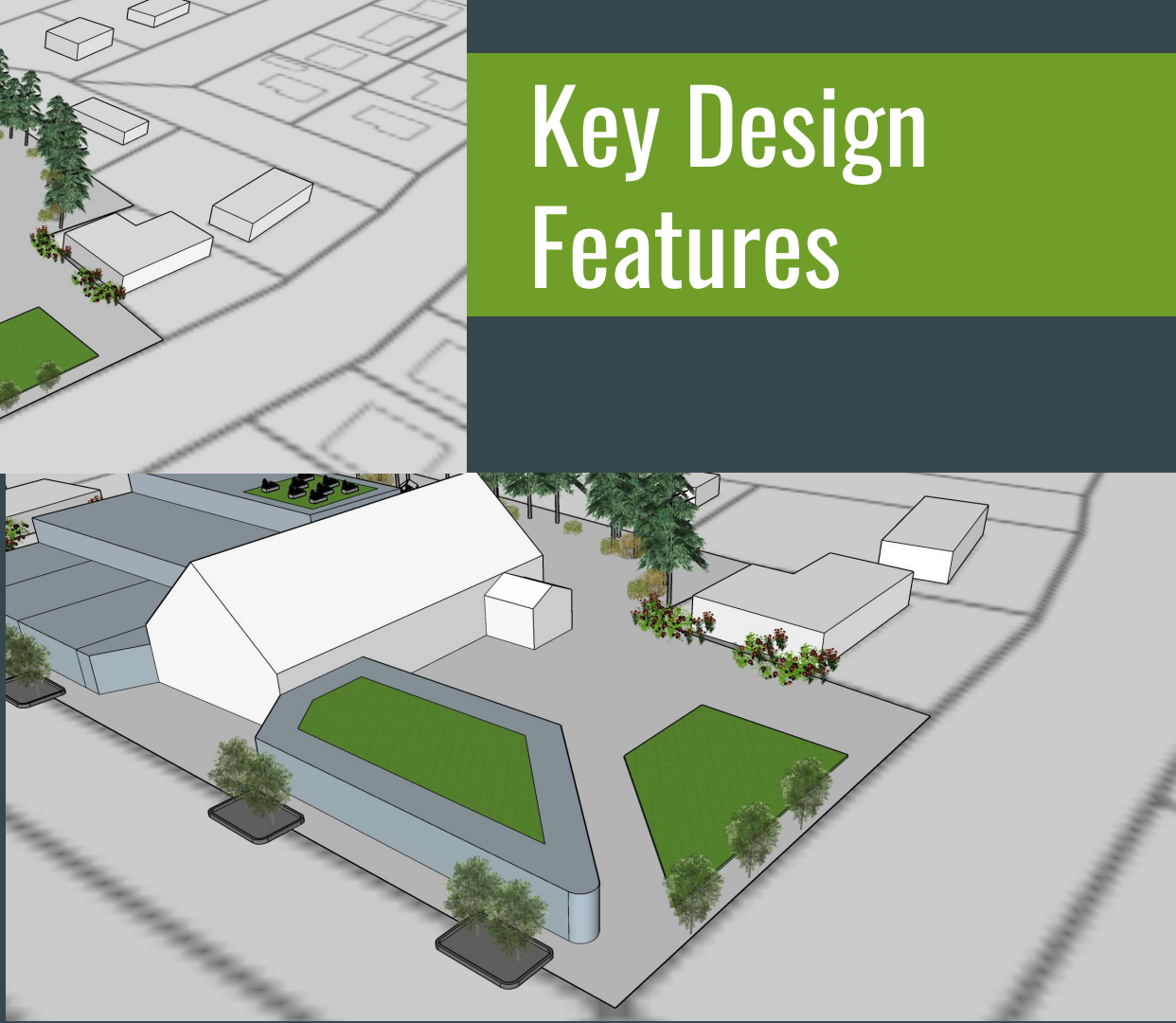


- Multi-purpose greenspace
- Playground & seating
- Naturalized plant additions



# Key Design Features

- Green roofs & roof gardens
- Open green-space
- Protected street trees





# Inspiration



See slide 10 reference for image sources

# References

## Image Sources:

Slides 1 & 14: Tree with leaves image retrieved from <https://pixabay.com/photos/trees-trees-with-no-background-3730387/>

Slide 2: Workshop images taken by Leah Fulton, October 9th, 2019. Knox United Church

Slide 3: Light bulb image retrieved from <https://www.freepnglogos.com/pics/bulb>

Slide 4: Soil PNG image retrieved from <http://pngimg.com/imgs/nature/soil/>

Slide 5: Grass image retrieved <https://www.stickpng.com/img/nature/grass/line-of-grass>

Slide 6: Cropped plant growing image retrieved from <https://www.jing.fm/iclipt/u2q8t4y3a9q8q8a9/>

Slide 10: Community Gardens images: Willowtown Association image retrieved from <http://www.willowtown.org/garden>

Port Angeles Community Gardens image retrieved from <http://pacommunitygardens.org/our-gardens/eleventh-street-community-garden/>

Open Gardens image retrieved from <https://www.opengardenssa.org.au/news/128-community-gardens-funding-project>



# References

## Image Sources Continued:

Rooftop Gardens image: Schwan, J. (2018). *Downtown building offers rooftop garden harvest*. Retrieved from <https://siouxfalls.business/downtown-building-offers-rooftop-garden-harvest/>

Playground images: Earthscape image retrieved from <https://www.earthscapeplay.com/project/natural-playground-ontario/>

Canadian Wildlife Federation (2019). Retrieved from <http://blog.cwf-fcf.org/index.php/en/setting-up-a-natural-playground/>

Earley, H. (2019). *The New Dingle Playground*. Retrieved from <https://www.familyfuncanada.com/halifax/dingle-playground/>

Green Roof image: Living roofs. AC Marriott Hotel. Image retrieved from <https://www.livingroofsinc.com/projects>

## Information Sources:

Knox United Church Workshop information derived from personal communication, October 9th, 2019.

Halifax Regional Municipality. (2013). *Urban Forest Master Plan*. Retrieved from [https://www.halifax.ca/sites/default/files/documents/transportation/streets-sidewalks/HALREG%201246%20UrbanForestReport\\_HighRes\\_SINGLEPAGE\\_Mon20\\_Combined.pdf](https://www.halifax.ca/sites/default/files/documents/transportation/streets-sidewalks/HALREG%201246%20UrbanForestReport_HighRes_SINGLEPAGE_Mon20_Combined.pdf)



# References

## Information Sources Continued:

Dinardio, K. (2019). The Green Revolution Spreading Across our Rooftops. Retrieved from <https://www.nytimes.com/2019/10/09/realestate/the-green-roof-revolution.html>

Food Banks Canada (n.d.). *Community Gardens Toolkit*. Retrieved from <https://www.foodbankscanada.ca/getmedia/c92619d7-d911-48eb-bf09-ecfd74042bc5/Community-Gardens-Toolkit-EN.pdf.aspx>



# Thank you

Questions?