# City of Madison Urban Forestry Task Force



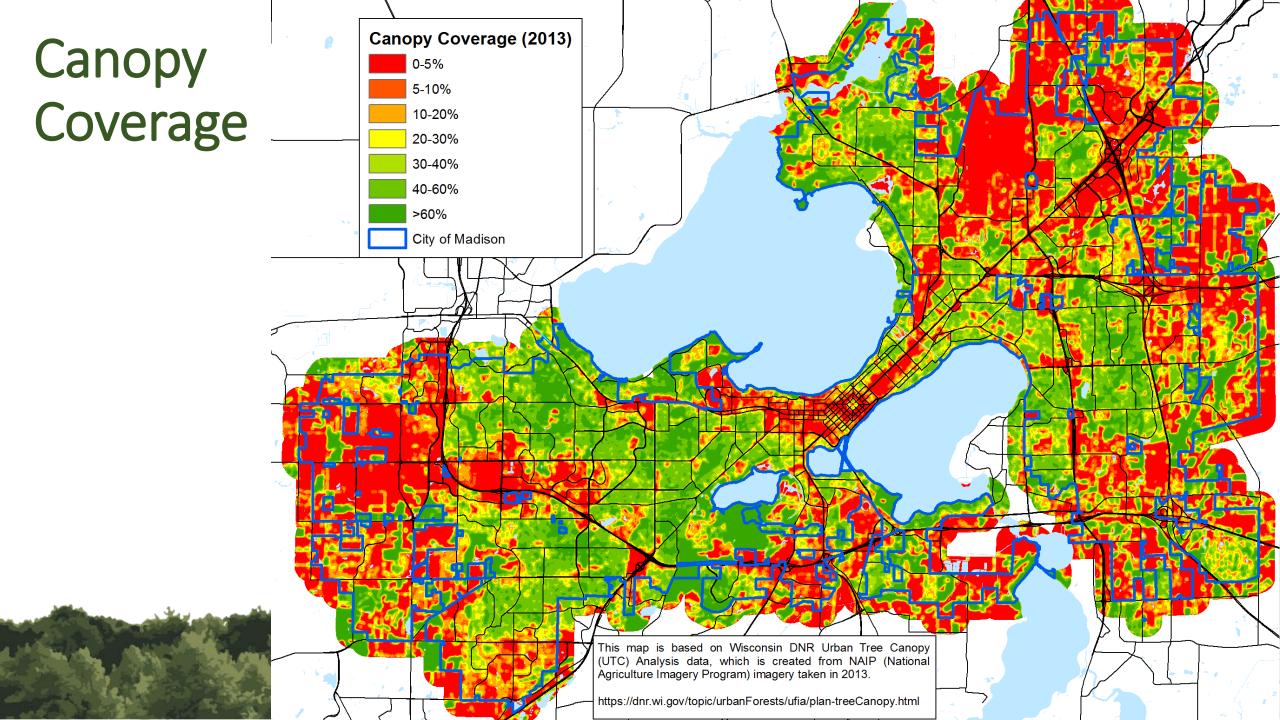
#### Urban Forestry Task Force Background

- Review available research and best practices on promoting a vibrant, healthy and sustainable urban forest
- Review City policies, practices, programs, and operations
- Task force comprised of alders, staff from Forestry, Engineering, Planning, residents

# Value of Trees

- Neighborhood character and appearance
- Temperature reduction
- Stormwater
- CO<sub>2</sub> and air pollution reduction
- Urban habitat
- Mental and physical health





### Context of Trees in Madison

- Trees on Private Property
- Trees on Public Properties
- Street trees (in right of way)



#### Private Trees – Urban Design Ordinances

- Several UDD specify allowable/preferred tree species
  - Recommendation: Revise urban design district ordinances MGO 33.24 (8-15) to remove list of allowable trees species and grant this authority to the City Forester.
  - Species ordinances are facing threats (ie EAB) and no longer optimal choices
  - Limits species diversity of canopy can increase impact of any individual threat

# Private Trees - Zoning

- Landscape Section Updated in 2013
  - Parking area landscaping
    - 5 or 8% of parking area in landscape islands
    - Roughly one tree per 8-10 parking stalls



- No trees required in parking lots prior to 1984 – legal non-conforming (grandfathered)
- Recommendation: Evaluated applicability triggers in landscape section



# Private Trees - Zoning

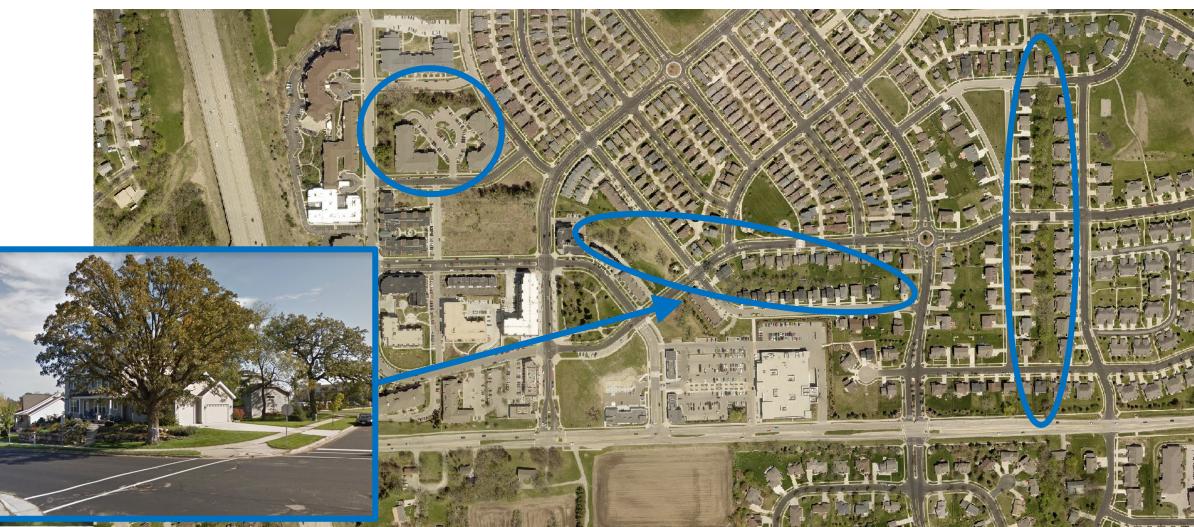
- Landscape Section Updated in 2013
  - Development Frontage Landscaping
    - One tree required every 30 ft between development edge (building, parking, etc.) and public street
    - Waived when buildings are at street
  - Mixed use and downtown zoning districts require minimal setbacks
    - Limited space for trees on private property near streets
  - *Recommendation: Evaluate minimum setback to determine if adjustments are needed*





### **Private Trees - Zoning**

- Tree preservation encouraged but not required by zoning and subdivision codes
- Recommendation: evaluate tree preservation ordinance

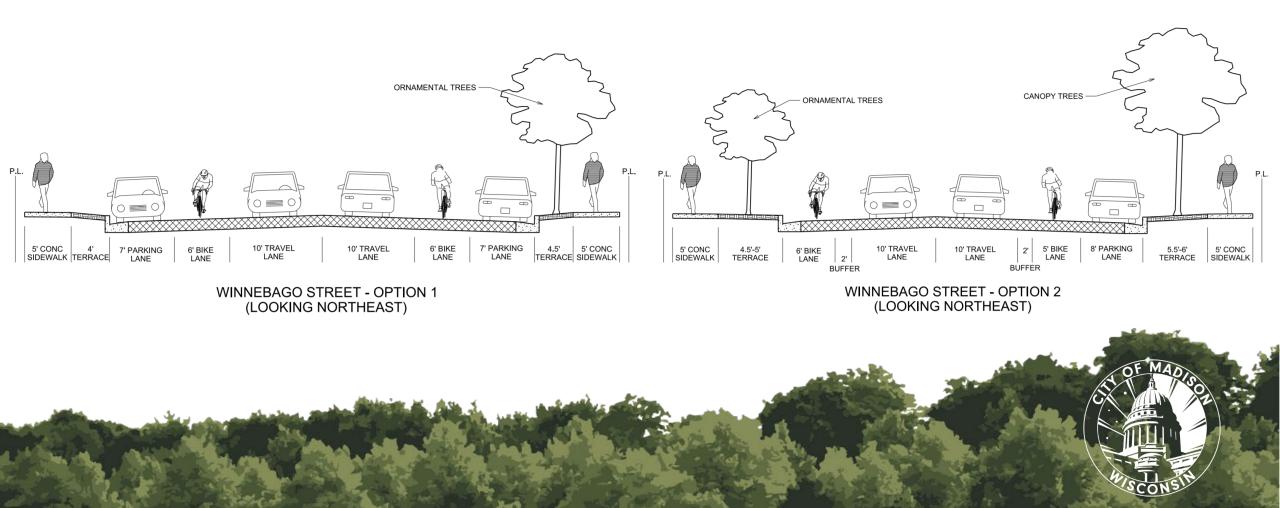


# Private Trees – Single Family Homes

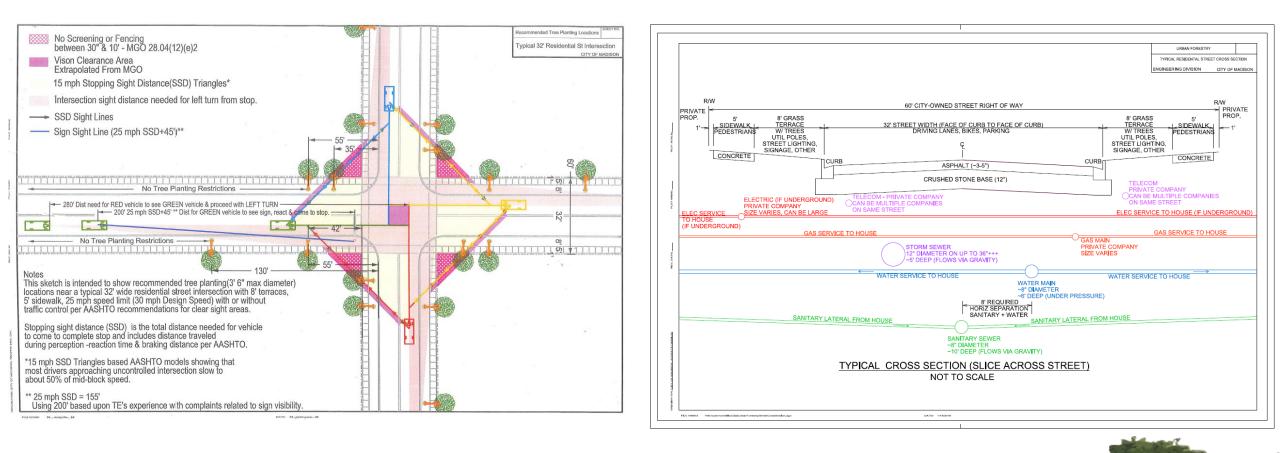
- No tree/landscape requirements for one and two family homes in zoning code
- Recommendation: Evaluate other mechanism to encourage tree plantings on new lots, such as neighborhood covenants



#### Street Trees – a contest for space

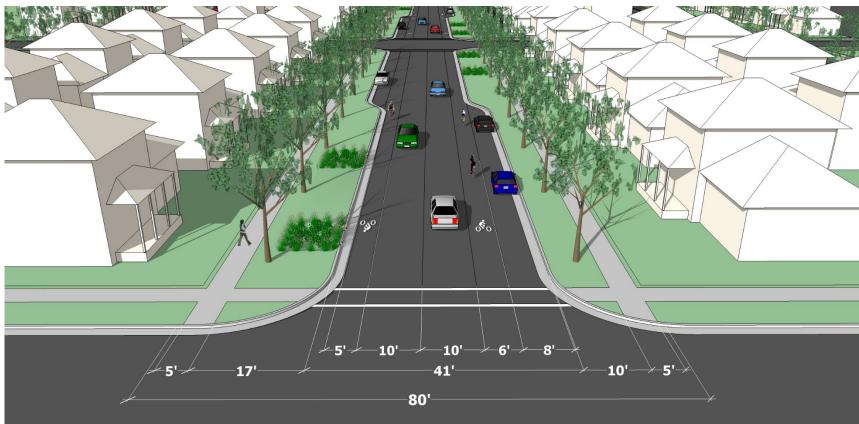


#### Street Trees – a contest for space



#### Street Trees – new streets

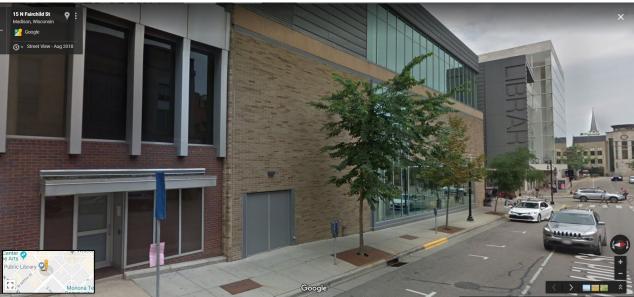
- Recommendation: Expanded minimum terrace widths for new streets
  - Local streets: 10 ft
  - Collector streets: 10 ft
  - Arterial streets: 12 ft



#### Street Trees – existing street reconstructions

• Recommendation: explore alternative designs with engineered soil volume construction methods and terrace support systems



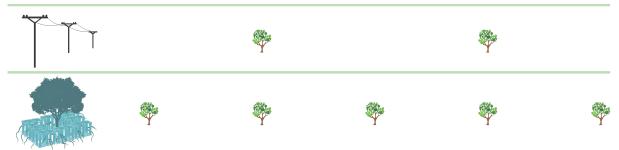


# Street Trees – undergrounding utilities

• Recommendation: undergrounding policy criteria should be amended to account for the impact of overhead utility lines on city terrace trees

#### STRATEGIES FOR E X P A N D I N G THE URBAN CANOPY

COMPARING THE IMPACTS OF UNDERGROUNDING UTILITIES, SILVA CELLS AND SPONSORED TREE PLANTING ON PRIVATE PROPERTY BASED ON EQUAL EXPENDITURES. Assumes \$500/FT FOR UNDERGROUNDING, \$10,000 PER SILVA CELL, \$250 PER TREE









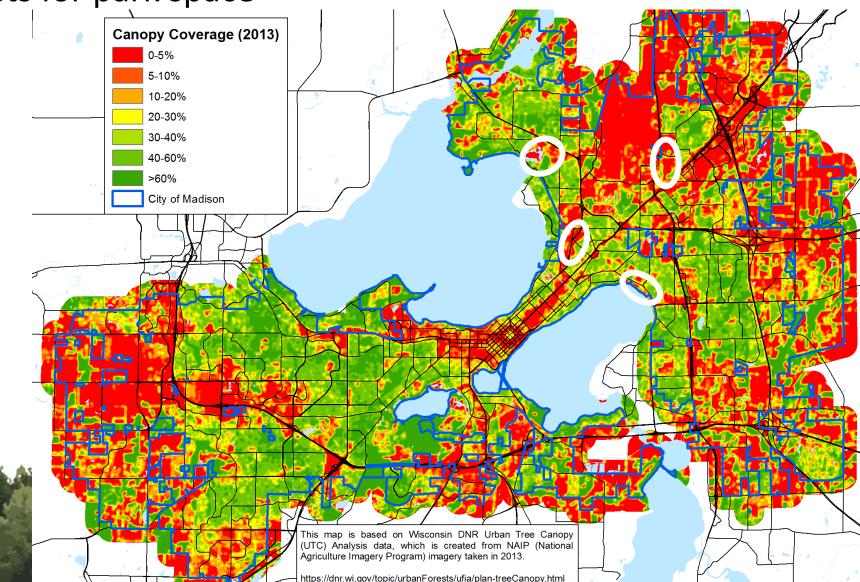
#### Street Trees – redevelopment and staging

- Recommendation: increase costs associated with street tree removal
- Recommendation: trees removed should be replaced in enhanced conditions, at the cost of the developer



# Public Trees/Forestry Operations - Parks

- Many competing interests for park space
  - Athletic fields
  - Garden plots
  - Sledding hills
- Recommendation: Work with Parks to identify potential tree planting locations



### Public Trees/Forestry Operations - Greenways (stormwater)

- Typically planted with prairie grasses
- Trees in past have been problematic
  - Tree shade inhibits grass growth, leading to bare soil
  - Erosion occurs without ground cover
- Recommendation: Forestry and Engineering work collaboratively to identify appropriate tree planting strategies in greenways



# **Outreach & Education**

- Recommendation: develop an Urban Forest Outreach Initiative - public education and coordination of events and volunteers
- Recommendations: create a grant program that provides trees to be planted on private property



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# Equity

- Low-income communities often lack canopy
- Recommendation: consider subsidies for street or private trees in lowerincome areas and neighborhoods that have not historically had street trees



#### **Next Steps**

• City review and approval process Introduction: July 2 Board of Public Works: July 17 Sustainable Madison Commission: July 22 Urban Design Commission: July 31 Transportation Policy and Planning Board: Aug. 5 Finance Committee: Aug. 12 Plan Commission: Aug. 12 Committee on the Environment: Aug. 19 Board of Park Commissioners: Sept. 4 Common Council: Sept 17



#### Questions – Comments - Discussion

