Total Projected Benefits (2018-2038) - Over the next 20 years, based on forecasted tree growth, i-Tree Design projects total benefits worth $7,259:

- $2,509 of stormwater runoff savings by intercepting 313,654 gallons of rainfall
- $262 of air quality improvement savings by absorbing and intercepting pollutants such as ozone, sulfur dioxide, nitrogen dioxide, and particulate matter; reducing energy production needs; and lowering air temperature
- $715 of savings by reducing 40,427 lbs. of atmospheric carbon dioxide through CO₂ sequestration and decreased energy production needs and emissions
- $1,685 of summer energy savings by direct shading and air cooling effect through evapotranspiration
- $2,087 of winter energy savings by slowing down winds and reducing home heat loss

Current Year - For 2018, i-Tree Design estimates annual tree benefits of $355.68:

- $117.75 of stormwater runoff savings by intercepting 14,721 gallons of rainfall
- $12.40 of air quality improvement savings
- $36.91 of carbon dioxide reduction savings
- $84.27 of summer energy savings
- $104.35 of winter energy savings
Future Year - In the year 2038, based on forecasted tree growth, i-Tree Design projects annual benefits of $370.48:

- $133.40 of stormwater runoff savings by intercepting 16,672 gallons of rainfall
- $13.85 of air quality improvement savings
- $34.61 of carbon dioxide reduction savings
- $84.27 of summer energy savings
- $104.35 of winter energy savings

Total Benefits to Date - Over the life of the tree(s) so far, i-Tree Design calculates total benefits worth $8,831:

- $2,052 of stormwater runoff savings by intercepting 256,520 gallons of rainfall
- $230 of air quality improvement savings
- $1,196 of carbon dioxide reduction savings
- $2,641 of summer energy savings
- $2,712 of winter energy savings

Figure 3. Annual tree benefits for the year 2038

Figure 4. Total benefits to date
### Individual Tree Benefits

<table>
<thead>
<tr>
<th>Tree</th>
<th>DBH (in)</th>
<th>Condition</th>
<th>Location to Structure</th>
<th>Benefits</th>
<th>Total to Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Oak</td>
<td>24</td>
<td>Fair</td>
<td>Northwest (42 ft)</td>
<td>$79.87</td>
<td>$82.83</td>
</tr>
<tr>
<td>2. Oak</td>
<td>24</td>
<td>Fair</td>
<td>West (31 ft)</td>
<td>$81.47</td>
<td>$84.43</td>
</tr>
<tr>
<td>3. Oak</td>
<td>24</td>
<td>Fair</td>
<td>South (13 ft)</td>
<td>$36.52</td>
<td>$39.48</td>
</tr>
<tr>
<td>4. Oak</td>
<td>24</td>
<td>Fair</td>
<td>North (26 ft)</td>
<td>$78.83</td>
<td>$81.79</td>
</tr>
<tr>
<td>5. Oak</td>
<td>24</td>
<td>Fair</td>
<td>Northeast (26 ft)</td>
<td>$78.98</td>
<td>$81.94</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td></td>
<td></td>
<td>$355.68</td>
<td>$370.48</td>
</tr>
</tbody>
</table>

DBH: "diameter at breast height" is the standard measurement of tree trunk width at 4.5 feet (1.5 meters) above the ground.

A cooperative initiative between:

[Image of logos]