

## Case Study #1:

1 acre property – **43,560 sf**

30% canopy cover goal for Commercial/Freeway Typology

**13,068 sf** ( $43,560 \times .3 = 13,068$ )

**300 classified inches** of protected trees removed

No trees preserved which would have aided in meeting canopy goal cover

Ways to mitigate in SDI:

1) Number of Legacy Trees needed if used for complete mitigation:

Large (1200 sf) = 11 (**13,200 sf canopy cover**), or

Medium (750 sf) = 18 (**13,500 sf canopy cover**)

2) Combination Legacy and other trees used in landscape.

- **Plant 5 Large Legacy trees** ( $5 \times 1200 = 6,000$  sf)

$6,000$  sf /  $13,068$  sf = .46 or 46% of the 30% canopy cover goal provided

$300$  classified inches  $\times$  .46 = 138 inches mitigated

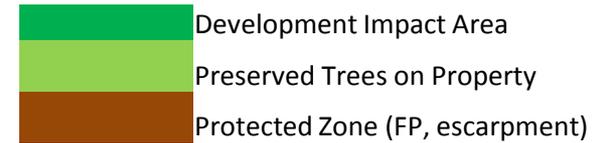
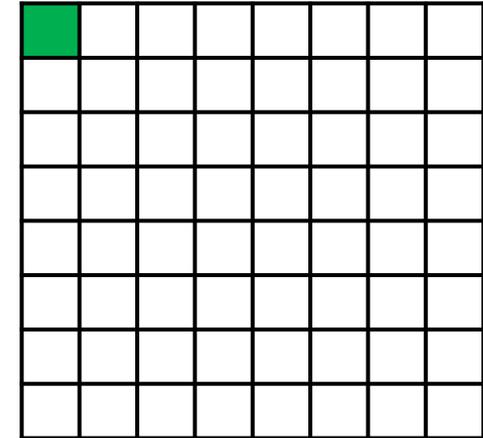
$300 - 138 =$  **162 inches** remaining to complete mitigation

- 11 - 3" caliper trees planted to meet Site Tree Requirement of 11 site trees

(11 trees  $\times$  3 inches = 33 inches)

$162 - 33 =$  129 inches left to mitigate

129 inches  $\times$  \$193 = \$24,897 to Reforestation Fund to complete mitigation



1 block = 1 acre = 43,560 sf.  
Grid represents 64 acre area.

## Case Study #2

Site assumptions:

8 acre property – **348,480 sf**

30% canopy cover goal for Commercial/Freeway Typology

**104,544 sf**

**2,400 classified inches** of protected trees removed

No trees preserved which would have aided in meeting canopy goal cover

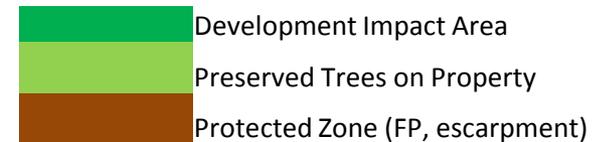
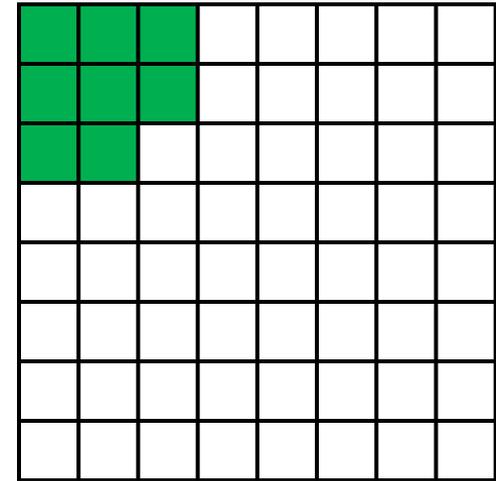
Ways to mitigate in SDI:

1) Legacy Trees needed if used for complete mitigation:

- Large (1200 sf) = 88 (**105,600 sf canopy cover**),
- Medium (750 sf) = 140 (**105,000 sf canopy cover**)

2) Combination Legacy and other trees used in landscape.

Site Tree Requirement (Landscape) = 87 site trees



### Case Study #3:

32 acre property – 1,393,920 sf

*29 acre development impact area*

30% canopy cover goal – **418,176 sf (9.6 acres)**

**9,600 classified inches** of protected tree removal

Legacy Trees to complete replacement:

- Large (1200 sf) = 349 (**418,800 sf**),
- Medium (750 sf) = 558 (**418,500 sf**), or
- Combination Legacy and other landscape trees.

Site Tree Requirement (Landscape) = 348 site trees

Protected Zone not included in calculations.

### Scenario:

Preserved 130,680 sf of tree canopy (3 acres)

(accounts for 3,000" of reduction)

418,176-130,680 = 287,496 sf needed to complete.

287,496 / 1200 sf = equivalent of 240 Legacy trees.

Planted 200 large Legacy trees (240,000 sf canopy)

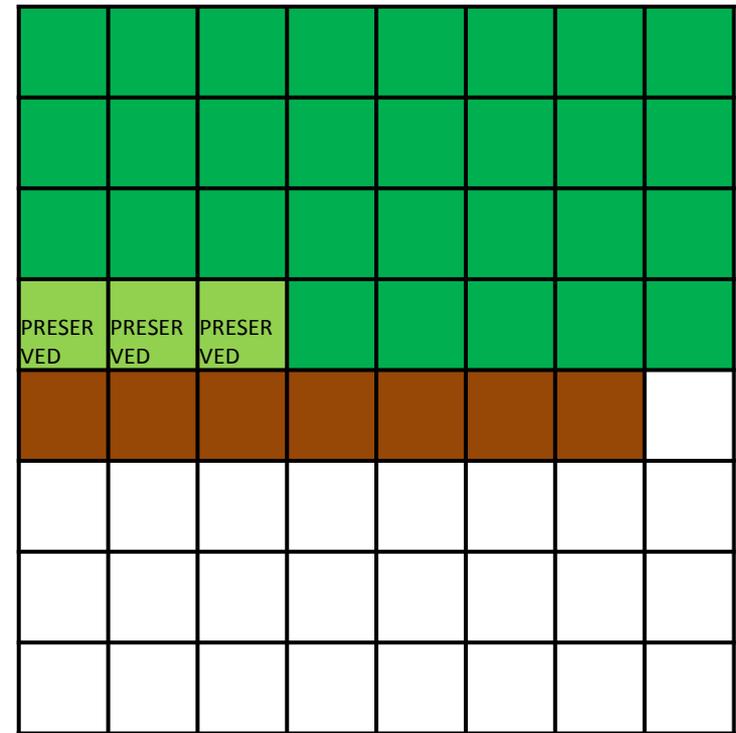
130,680+240,000 = 370,680 sf canopy = 88.6% of goal.

9,600 x 88.6% = 8,509" (1,090" remaining).

Planted 363 trees @ 3" average in total (all trees)

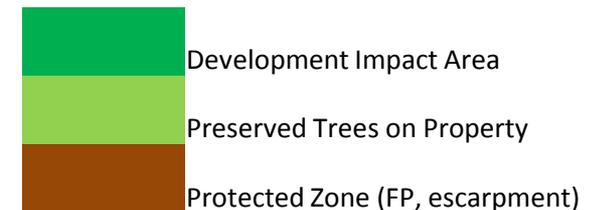
= 1,090" planted.

All required tree replacement is completed in landscape.



1 block = 1 acre = 43,560 sf. Grid represents 64 acre area.

9,600 inches are after tree classification of survey.



348 Legacy trees is equivalent of 174,000 sf (4 acres) of landscape area.

## Case Study #4:

64 acre property – 2,787,840 sf

*46 acre development impact area*

30% canopy cover goal – **836,352 sf (19.2 acres)**

**19,200 classified inches** of protected tree removal

Legacy Trees to complete replacement:

- Large (1200 sf) = 697 (**836,400 sf**),
- Medium (750 sf) = 1,116 (**837,000 sf**), or
- Combination Legacy and other landscape trees.

Site Tree Requirement (Landscape) = 697 site trees

### Scenario:

Preserved 784,080 sf of tree canopy (18 acres)

(accounts for 18,000" of reduction)

Preserved additional trees within the DIA.

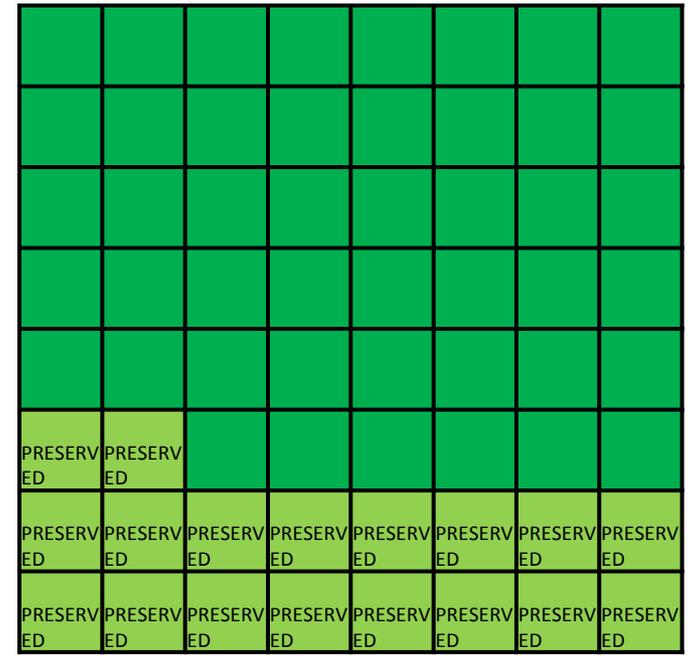
836,352-784,080 = 52,272 sf needed to complete.

52,272 / 1200 sf = equivalent of 44 Legacy trees or other preserved trees in the DIA.

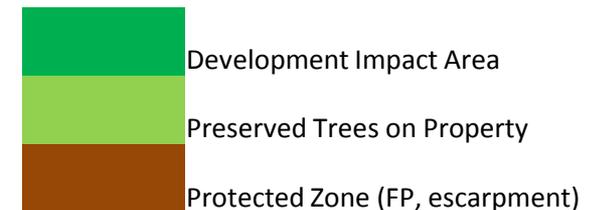
Planted 44 large Legacy trees (52,800 sf canopy)

Planted trees to meet mandatory landscape requirements, with 44 Legacy trees included.

All required tree replacement is completed in preserved trees and landscape.



1 block = 1 acre = 43,560 sf. Grid represents 64 acre area.



697 Legacy trees is equivalent of 836,400 sf (19.2 acres) of landscape area.