

CRZ IMPACT WORKSHEET

Simple Calculation

See Figure 1 - Use Gross CRZ when the root zone is uninterrupted. (no existing structures impede CRZ)

Tree Size: _____ inches DBH
 SRP Radius: _____ Feet (must be protected) *
 CRZ Radius: _____ feet
 CRZ Area: _____ s.f. ($A = \pi r^2$)
 Impact Area: _____ s.f. (CRZ outside Tree Save)

Solve for Percent Impact:

$$\frac{\text{Impact}}{\text{CRZ Area}} \times 100 = \text{IMPACT} \%$$

* The Structural Root Plate (SRP) for a saved tree must be protected by Tree Protection Fence. No impact is allowed.

Complex Calculation

See Figures 2 through 4 - Use "Net CRZ" when the root zone intersects with a structural wall foundation or a public street.

Tree Size: _____ inches DBH
 SRP Radius: _____ Feet (must be protected) *
 CRZ Radius: _____ feet
 CRZ Area: _____ s.f. ($A = \pi r^2$)
 Impact Area: _____ s.f. (CRZ outside Tree Save)
 Deduct Area: _____ s.f. (total for all deducts)

The deduct the areas of the CRZ beyond the foundation of existing structural walls, or beyond the curb for a public street.

Solve for Net CRZ:

$$\frac{\text{CRZ Area}}{\text{Deduct Area}} = \text{Net CRZ Area s.f.}$$

Solve for Percent Impact of Net CRZ:

$$\frac{\text{Impact}}{\text{Net CRZ Area}} \times 100 = \text{IMPACT} \%$$

* The Structural Root Plate (SRP) for a saved tree must be protected by Tree Protection Fence. No impact is allowed.

Figure 1: Simple Calculation, New Foundation
 (impact includes the hatched area outside tree save)

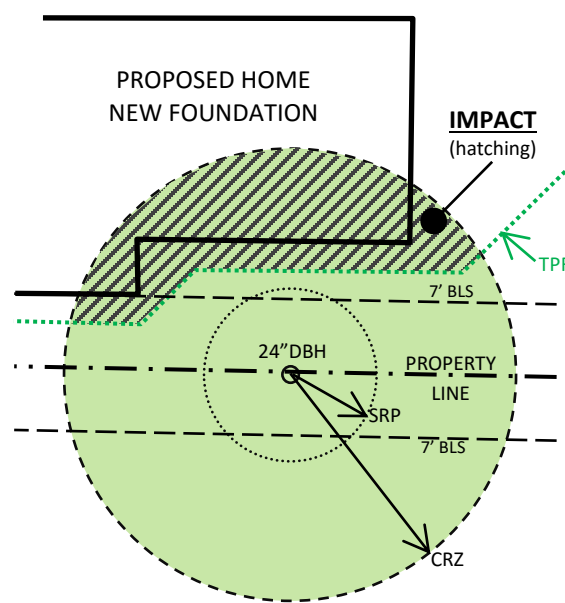


Figure 2: Complex Calculation, Existing Foundation
 (for addition or replacement)

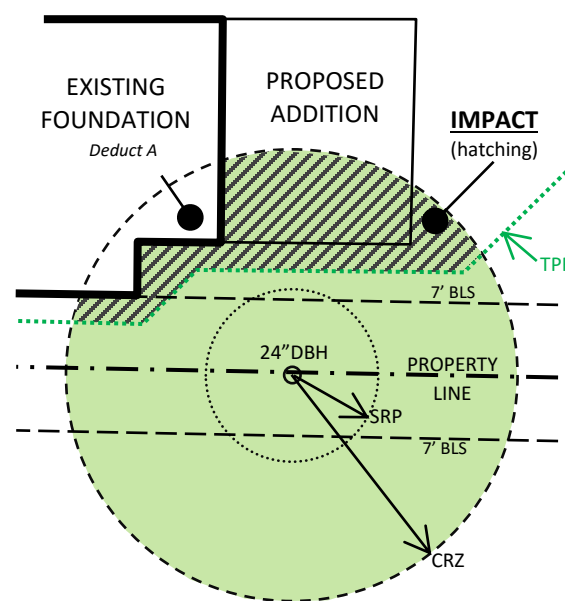


Figure 3: Complex Calculation, Multiple Deducts
 (do not include driveway)

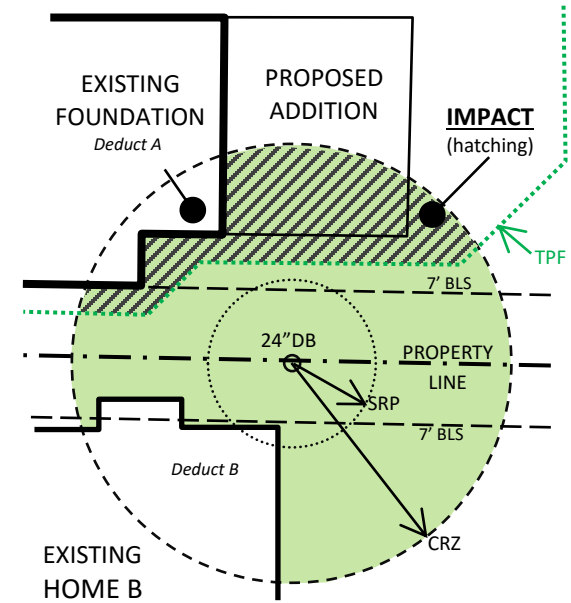
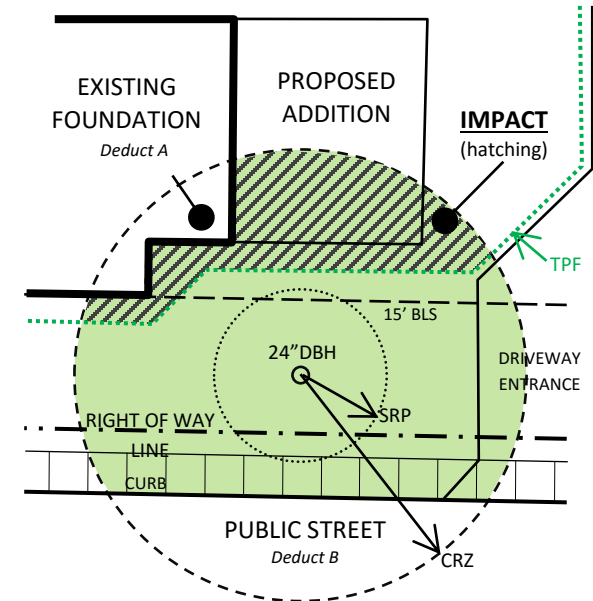


Figure 3: Complex Calculation, Foundation & Street
 (do not include driveway)



DBH – Diameter at Breast Height	6-7"	8"	9-11"	12-14"	15-19"	20-24"	25-31"	32"	33-38"	39-48"
SRP – Structural Root Plate (radius)	5'	5.5'	6'	7'	8'	9'	10'	10.5'	11'	12'