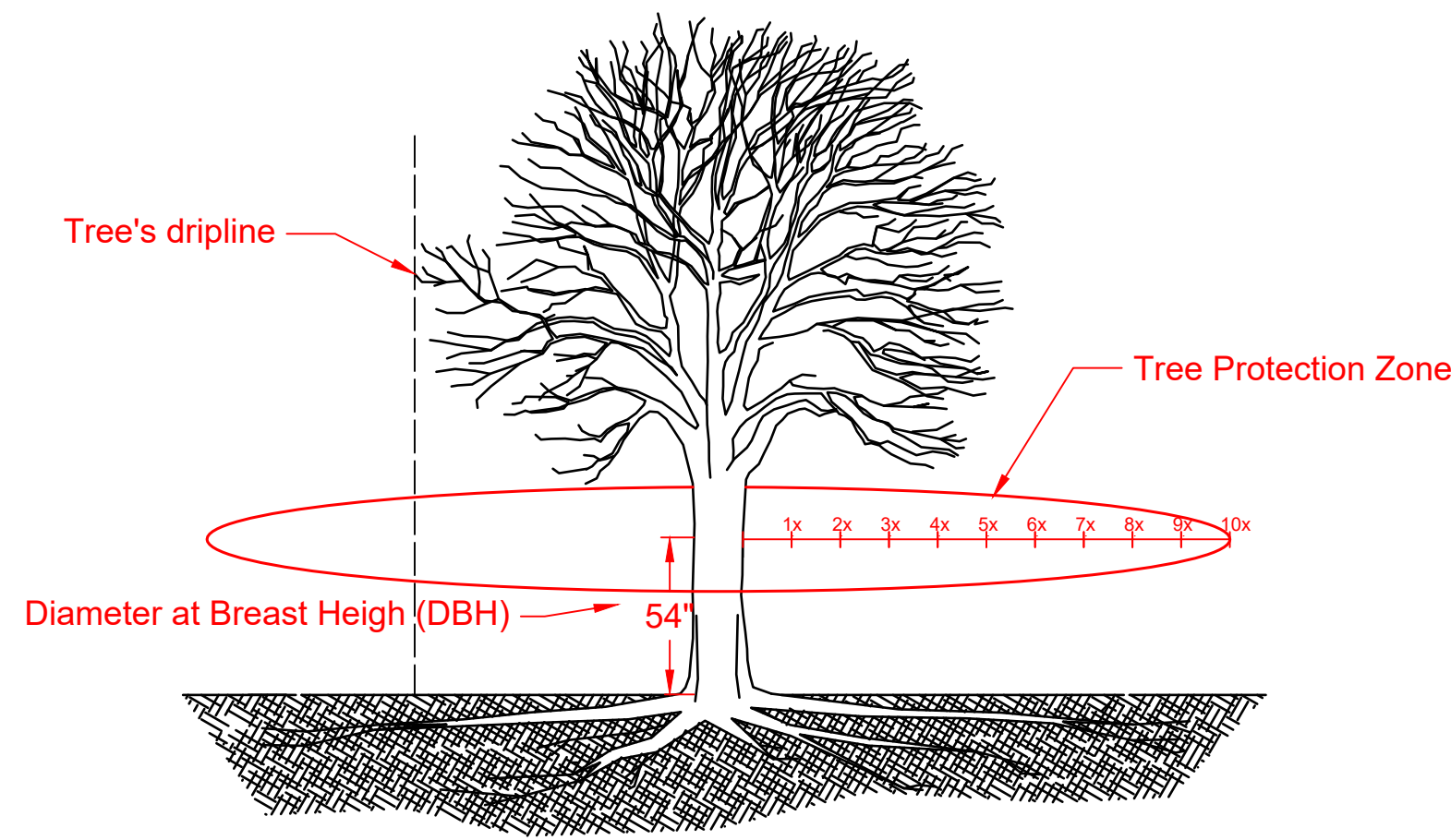


1 TREE PROTECTION ZONE  
SECTION VIEW



PROTECTED TREES

In the City of San Mateo per Chapter 13.40 of the Municipal Code, the following trees are considered protected:

- Heritage Trees
  - Oak trees with a trunk diameter of 10 inches or more
  - Any other tree species with a trunk diameter of 15 inches or more.
- Street Trees
  - All trees growing within the public right of way.
- Existing Trees/Major Vegetation
  - Trees with a trunk diameter of 6 inches or more designated as protected as part of a Planning Application subject to Chapter 27.71.

Tree Protection Zone (TPZ) is the area surrounding a tree with a radius equal to 10 times the diameter of the trunk measured at 54" above grade or as otherwise specified by a Project Arborist and approved by the City Arborist. Construction activities as defined by the Code are not allowed within the TPZ. It is unlawful for any person to cause damage to a Protected Tree compromising its health or structural integrity according to accepted industry standards, or to cause damage that is severely detrimental to its overall aesthetics. Any violations may result in penalties described in SMMC 13.40.160."

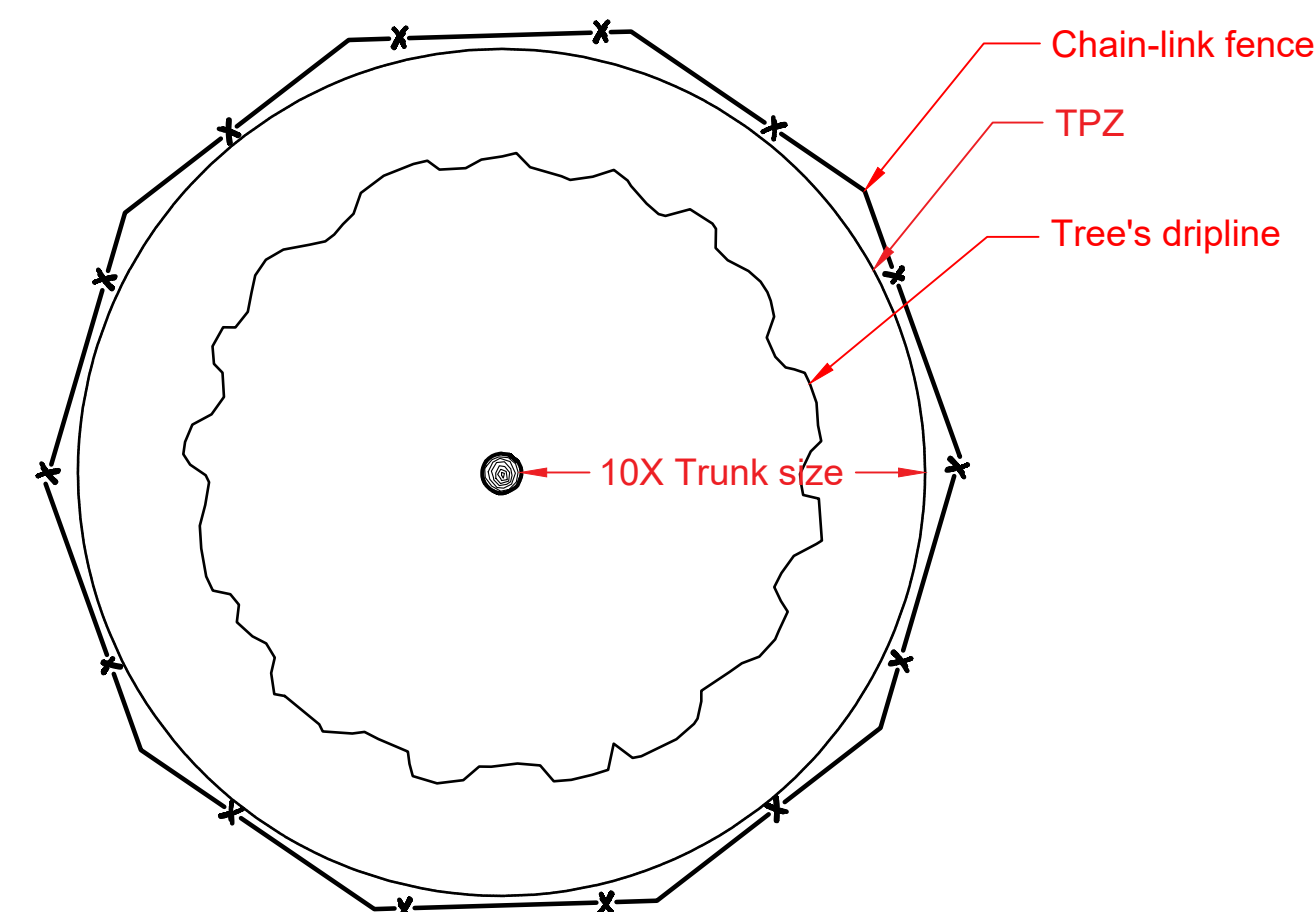
4 TYPE I COMPLETE FENCING  
SECTION VIEW

The fence encloses the entire TPZ of the tree(s) throughout the life of the construction project.

When fencing the TPZ area is not feasible, Trunk wraps in combination with Root & Soil buffers shall be installed within the TPZ to protect the trunk, roots, and branches from injury and avoid soil compaction.



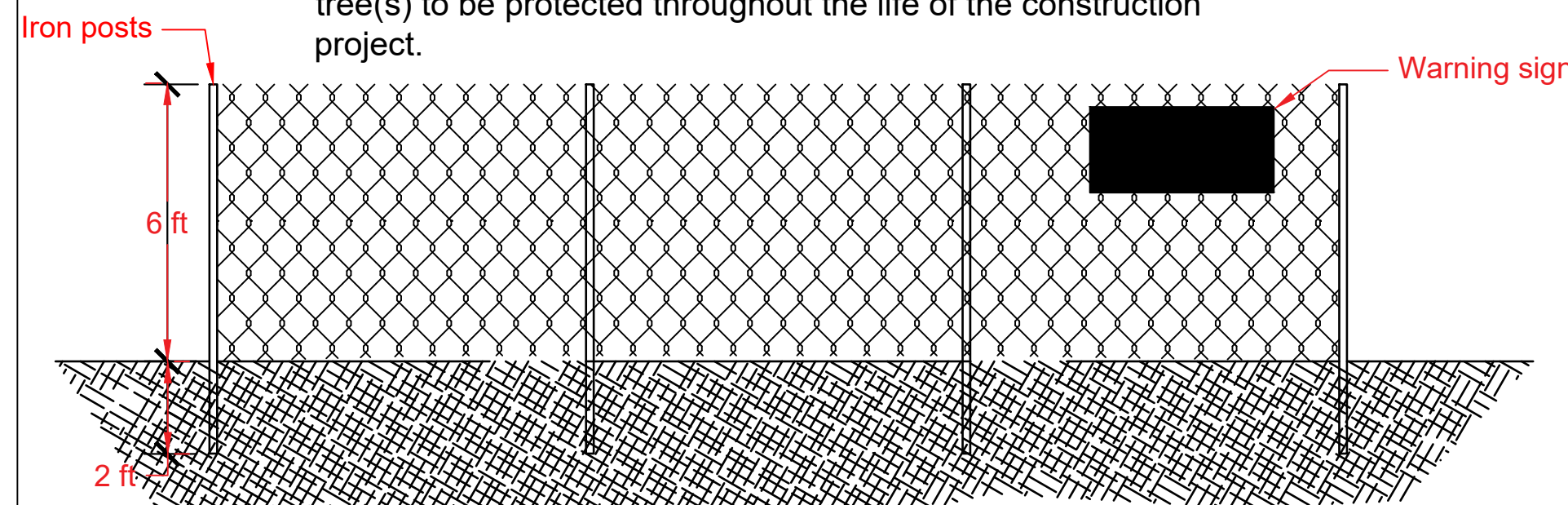
PLAN VIEW



Fencing a group of trees at the TPZ radius of the largest tree is acceptable rather than fencing each tree in the group individually. Adjustments and/or reparations for protective fencing shall be performed in a timely manner to avoid damages to Protected trees.

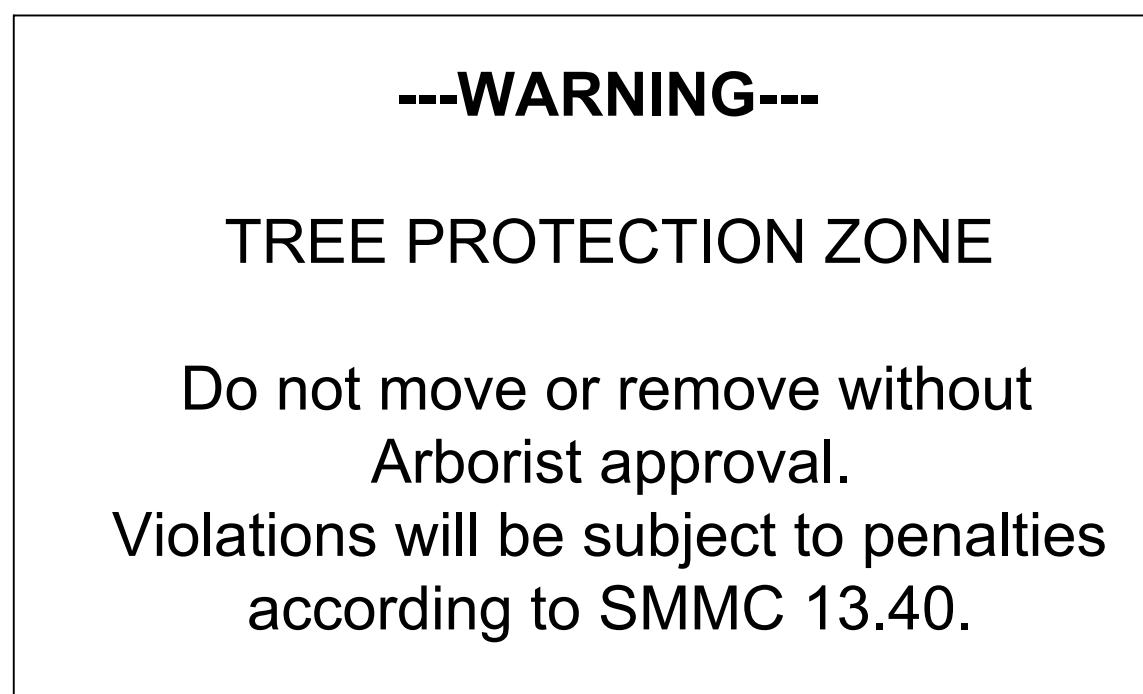
2 TREE PROTECTION FENCING AND SIGN DETAILS  
SECTION VIEW

Fencing shall consist of chain link fence (6-feet high), mounted on galvanized iron posts with 2 inches in diameter. Each post must be driven into the ground at least two 2 feet deep, no more than 10 feet apart. The fence shall enclose the entire TPZ of the tree(s) to be protected throughout the life of the construction project.



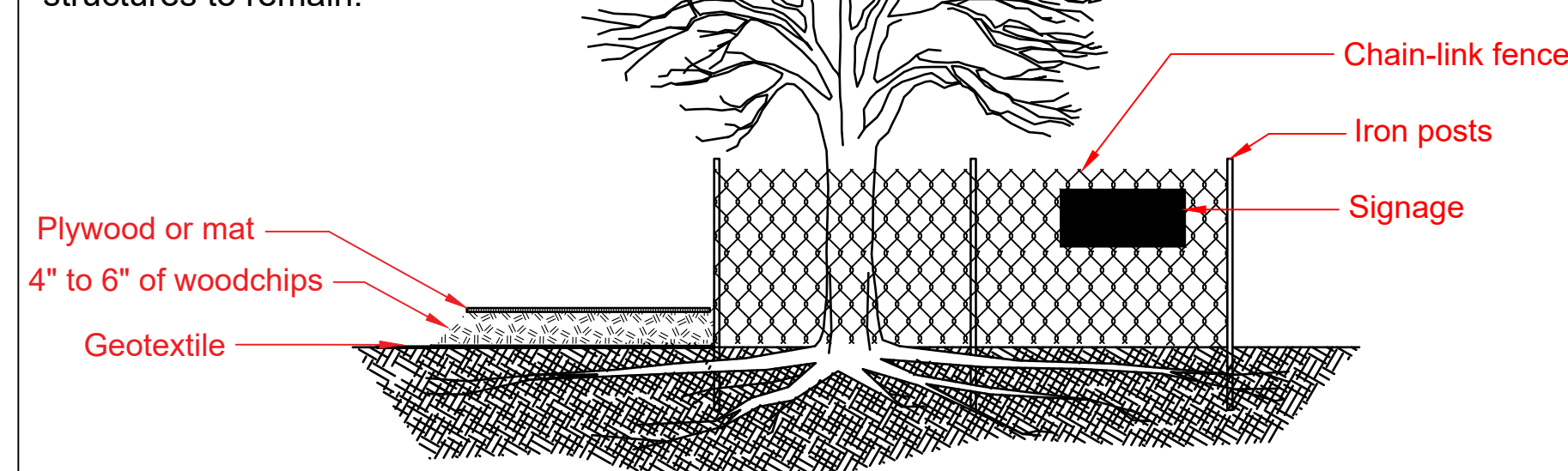
SIGNAGE

Warning signs shall be installed to be displayed on fencing and trunk wraps. Tree signs should be in English, Spanish or any other language if required.

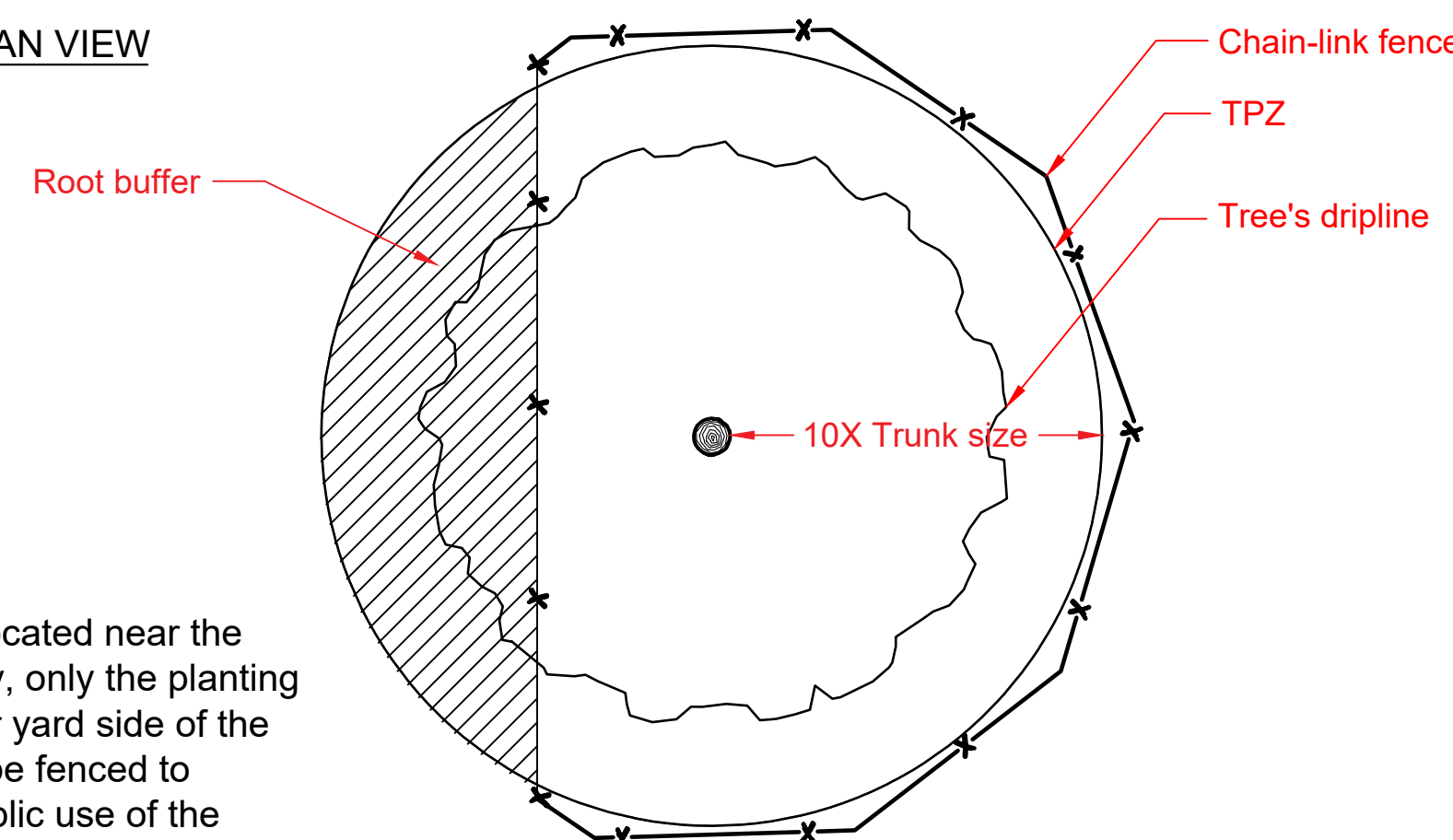


5 TYPE II REDUCED FENCING  
SECTION VIEW

Fence encloses part of the TPZ, but the soil and root zones are protected with root buffers or existing hardscape not planned to be demolished. The fence can be reduced at the edge of the work limits, access paths, hardscape, or structures to remain.



PLAN VIEW

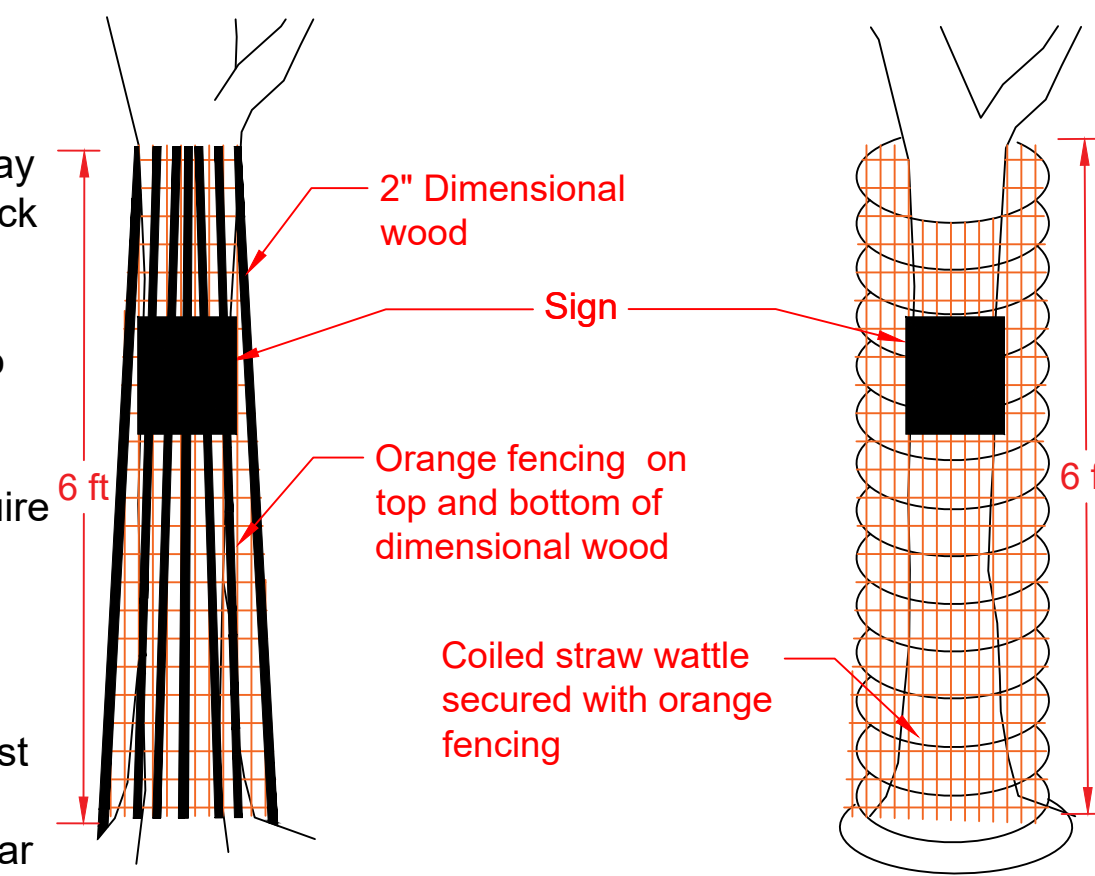


For trees located near the right of way, only the planting strip and/or yard side of the TPZ shall be fenced to provide public use of the street and sidewalk.

3 TRUNK AND ROOT PROTECTION DETAILS  
TRUNK WRAP

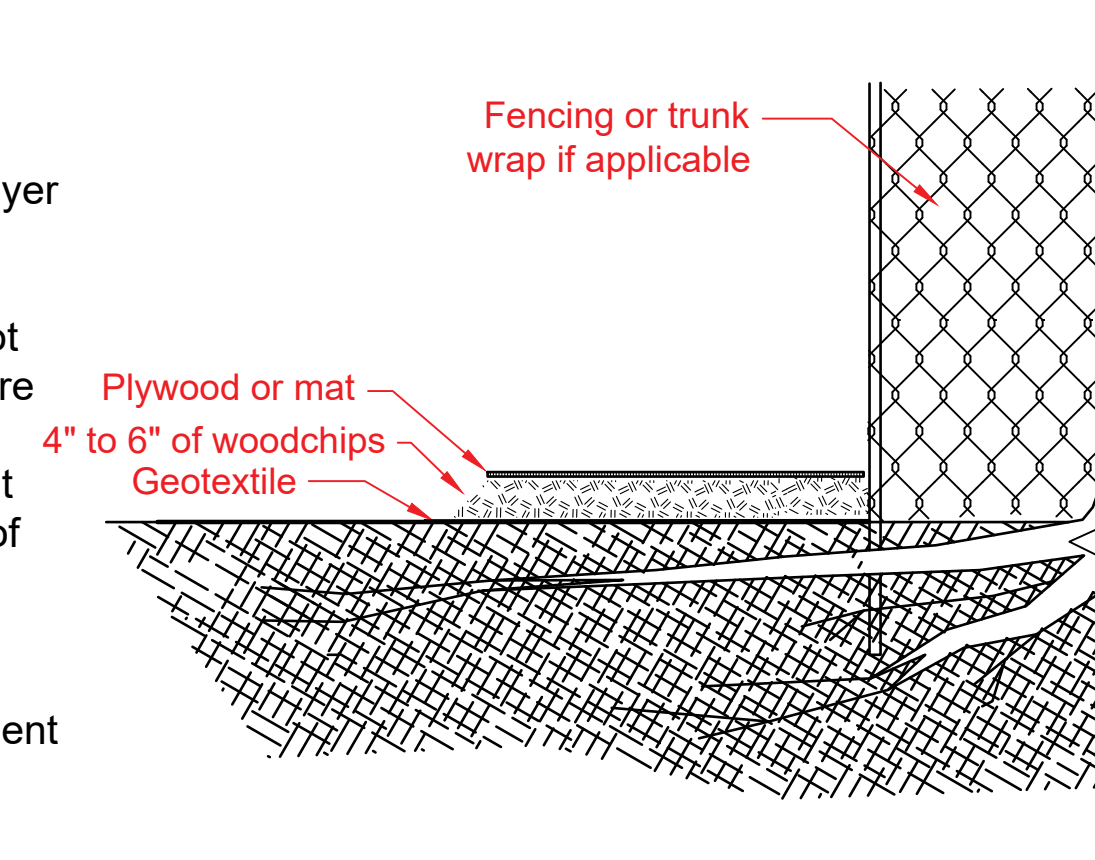
Wrap the trunk with orange plastic fencing for buffering (2" thick). Overlay orange plastic fencing with 2-inch thick wooden slats bound securely by two layers of additional orange fencing (slats shall not be allowed to dig in to the bark). During installation, use caution to avoid damaging any branches. Major limbs may also require wrapping.

Straw wattle can be used as an alternative material. For this purpose coil the straw wattle around the lowest 6' of the trunk and secure it with a double layer of orange fence or similar material.



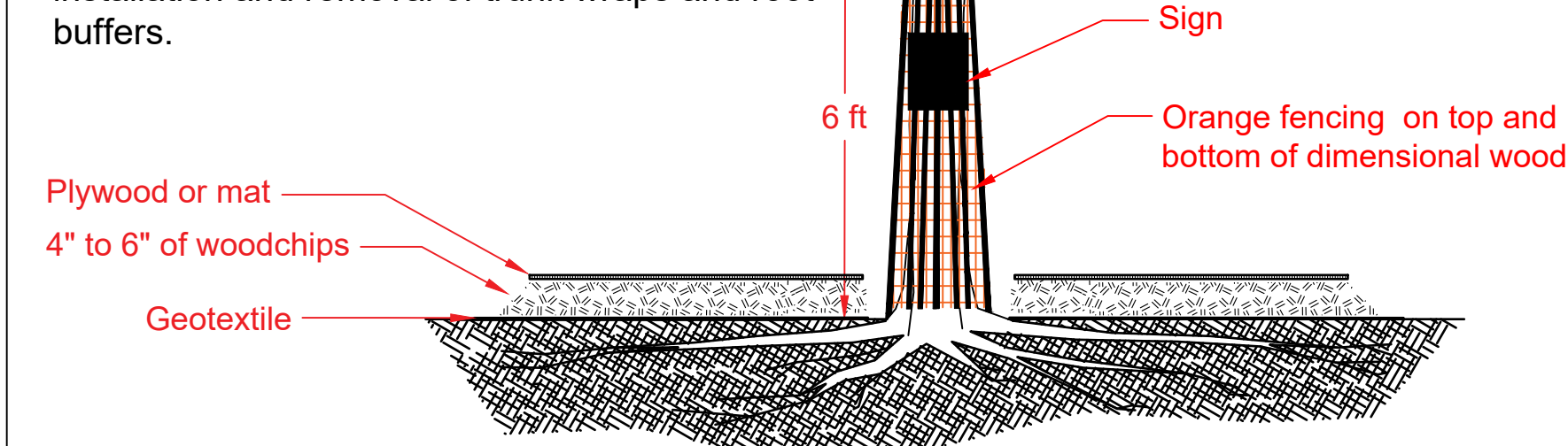
ROOT BUFFER

Root buffers consist of secured geotextile material covered with a layer 4" to 6" of clean wood chips and 3/4-inch plywood sheets securely installed over the wood chips. Do not use geotextile fabric if root buffers are to be left permanently. The Project Arborist shall be present during the installation and removal of root buffers. Any root buffer variation must be approved by the City Arborist in accordance with the Best Management Practices (BMPs).

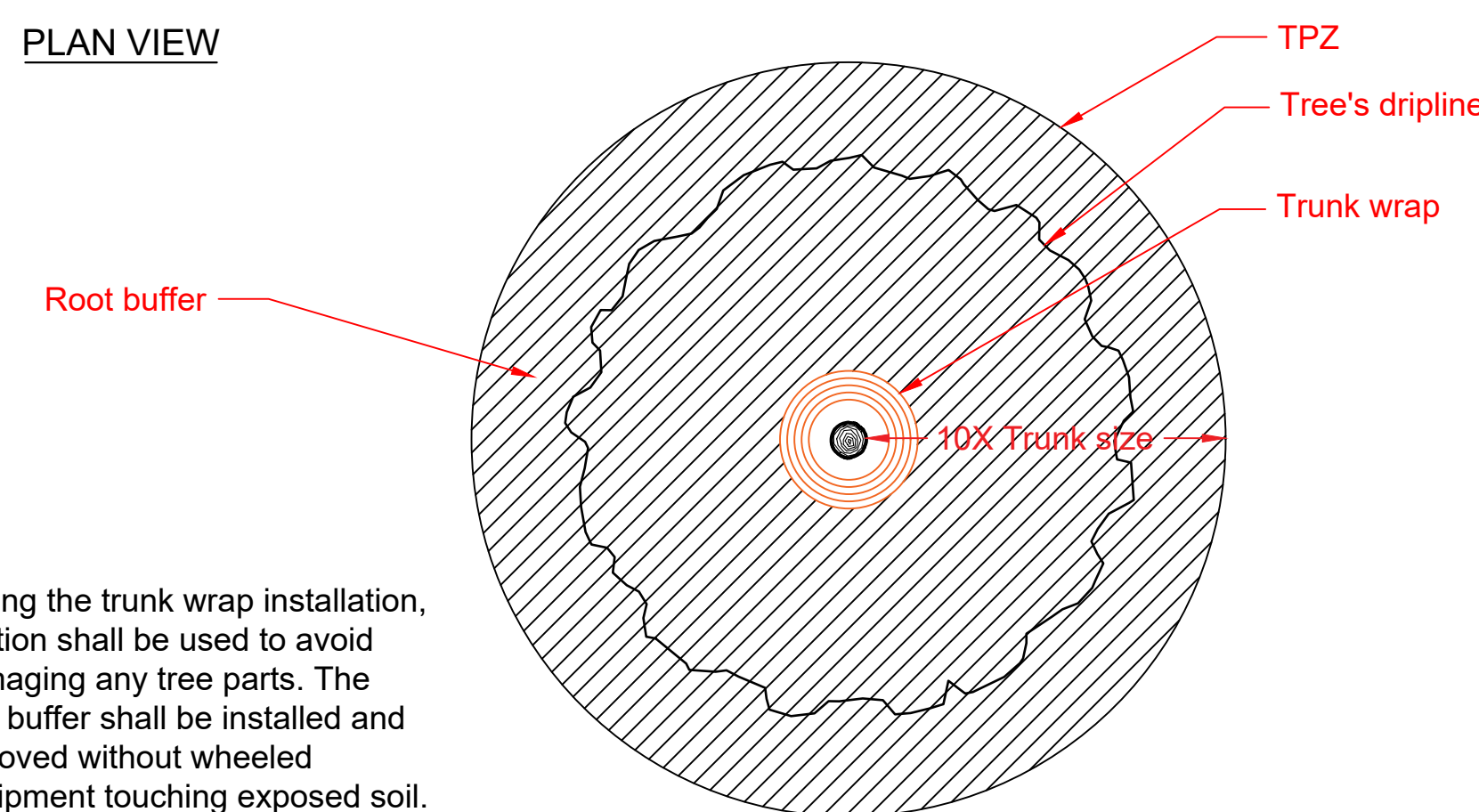


6 TYPE III TRUNK WRAP & ROOT BUFFER  
SECTION VIEW

To be used when construction activities cannot be kept outside of TPZ and/or installing fencing is not feasible. Trunk wraps account for trunk and lower branches protection, and root buffers help to minimize soil compaction and mechanical root damage. The Project Arborist shall be present during the installation and removal of trunk wraps and root buffers.



PLAN VIEW



During the trunk wrap installation, caution shall be used to avoid damaging any tree parts. The root buffer shall be installed and removed without wheeled equipment touching exposed soil.



330 West 20th Avenue  
San Mateo, CA 94403

APPROVED TREE PROTECTION DETAILS  
Community Development Department  
S.M.M.C. 13.40

NOTES:

- Tree protection measures are required whenever construction activities encroach the TPZ of Protected trees. These shall not be installed, altered or removed unless recommended by the Project Arborist and approved by the City Arborist.
- Construction Activity as defined by the Code includes the necessary related activities like storing/staging of materials, site access, parking, placement of temporary structures, debris disposal, additional excavation, and landscaping.
- See the Tree Protection Plan sheet or Site Plan for specific information and location of protection measures.

SHEET

TP-01

Not to Scale

Rev 9/23