

VOLUNTEER PLAN FOR APPLYING COMPOST AND COMPOST/MULCH MIX TO BSP SOUTH AND NORTH HILLS, AND NW CORNER OF BATH HOUSE

This plan was developed jointly by Walter Passmore, Charles Vaclavik, Tom Nelson, Gary Gregson, PARD, Michael Fossum and Zoila Vega, AHTF. This plan is based on the Forestry BSP Mulching plan presented at the BSP Joint Committee, with minor improvements developed jointly by these stakeholders and staff in response to recommendations from certified arborists and the community. This plan meets all the priorities that were identified, and provides the best tree care to the heritage trees at BSP. This plan is aligned with the Grounds Improvement plan that will be implemented in 2013. This plan combines efforts from volunteers, from all organizations and all sources, for 3 events to be run with support from PARD. The most difficult part of work, the steepest part of the south hill, will be done by Forestry staff.

A.- Applying compost and mulch to the north and south hills inside the fence as BSP:

1) Saturday 02.11.12, 8 am-12 pm

Apply compost/mulch mix to 25% of the drip line, 3 inches away from trunk, 2 inches deep, to:

- a. south hill:
 - i. 8 heritage trees in the flatter area of the hill
 - ii. portions of the CRZ of the 7 pecans by the fence (area by fence, 312 ft. long and 10 ft. wide)
- b. north hill:
 - i. 5 smaller trees (average diameter = 4 inches).
Mulch socks needed for these 5 trees.
 - ii. 2 large heritage trees
Mulch socks needed for 1 HT (Leaning tree).

Need 40 volunteers, including volunteers from all organizations and all sources.

Need $[(3.14 \times 32 \times 32 \times 0.25 \times 0.25 \times 8 \text{ trees}) + (312 \times 10)] \times 2 \text{ inches deep} = 30 \text{ cyds.}$, but need to round up to full cyds. delivered per tree to ease delivery with gators, so need **35 cyds. delivered to the South Hill**, and **25 cyds. delivered to the North Hill**, for total of **60 cyd.**

Need 8 wheelbarrows, 30 rakes, 30 shovels, and 10 forks

Truck with the grabber claw and mulch mix will stay outside the south fence (to avoid compacting soil under trees' drip lines), and 2 gators with dump beds will deliver small piles of mulch to the edge of the dripline of each of the 8 trees, before the event (on Thursday 02.09.12).

2) Saturday 02.25.12, 8 am-12 pm

Apply compost 1 inch deep, to the remaining 75% of the drip line to:

- a. South hill
 - i. 8 heritage trees in the flatter area of the south hill.
- b. North Hill:
 - i. 1 heritage tree near upstream dam

This has to be coordinated with PARD laying zoysia mix sod soon after, to hold compost in place. Compost will benefit trees as well as sod. Compost will encourage tree root growth in spring which will help trees survive drought.

Need 40 volunteers, including volunteers from all organizations and all sources.

Need $(3.14 \times 32 \times 32 \times 0.93 \times 6.5 \times 1) = 60 \text{ cyds}$ **70 cyds. of organic compost delivered to the South Hill**, and $(3.14 \times 32 \times 32 \times 1) = 10 \text{ cyds}$ **10 cyds. of organic compost delivered to the North Hill.**

Delivery of compost to edge of drip line by gators, as explained above on, before the event (on Thursday 02.23.12). Same amount of tools needed.

B.- Applying compost and mulch to the NW corner of BSP bath house:

3) Saturday 03.03.12 (IMPD), 8 am-12 pm

Apply compost/mulch mix to 6.5 HTs at NW corner of bath house.

Need 50 volunteers, including volunteers from all organizations and all sources.

Need $(3.14 \times 32 \times 32 \times 4 \times 2 = 80 \text{ cyds})$ **80 cyds. of compost/mulch mix delivered to the NW corner of the bath house before event.**

C.- Additional work needed from Forestry and PARD:

- 1) Forestry crews need to apply compost, 1 inch deep, to the dripline of 7 heritage trees in the South Hill, in the steepest part of the slope. This needs to be followed soon with laying zoysia mix sod, to hold the compost in place instead of mulch socks. All trees need to be treated.

Forestry would need $(3.14 \times 37 \times 37 \times 4 \times 1 = 53 \text{ cyds.})$ **55 cyds. of organic compost.**

- 2) PARD needs to lay zoysia mix sod, to the dripline of 8 HTs in the flatter area of the south hill soon after the 02.25.12 volunteer event, to hold compost in place instead of using mulch socks.

SUMMARY MATERIALS NEEDED:

For 02.11.12 event:

- 60 cyds. of compost/mulch mix (35 cyds. delivered to the South Hill, and 25 cyds. delivered to the North Hill)
- Mulch socks for 5 smaller trees and for leaning tree

For 02.25.12 event:

- 80 cyds. of organic compost (70 cyds. delivered to the South Hill and 10 cyds. delivered to the North Hill).

Soon after 02.25.12 event:

- Zoysia mix sod for under trees driplines

For 03.03.12 event:

- 80 cyds. of compost/mulch mix delivered to the NW corner of the bath house.

Suggested For Forestry applying compost and sod to steepest part of the south hill:

- 55 cyds. of organic compost
- Zoysia mix sod for under trees driplines