

City of San Diego, Revisions to Regional Standard Drawings

Regional Standard Drawings are available at <http://www.regional-stds.com/home/book/drawings>, and changes can be proposed, to this committee.

Instructions to review group: Review and mark deletions, additions and edits on the Regional Standard Drawings pages. The drawings are divided into three sets: Tree planting, Tree stakes, and Sidewalks and grates. Consider the drawings prepared by the Urban Tree Foundation (at http://urbantree.org/details_specs.shtml) and the Urban Parkway Configurations in the City of San Diego's street design manual. Number and write reasons for the changes (on separate paper). If you finish one set, get another set and review and mark changes.

Names of reviewers: _____

Background* Briefly summarize the relevant existing regulations or review process.

Regional Standard Drawings are used for blueprints, landscape plans, and contract specifications by cities throughout the county. Some cities adapt the plans and/or renumber them, such as the City of San Diego's "whitebook" with standard specifications for public works construction, <https://www.sandiego.gov/publicworks/edocref/greenbook>.

Issue* Briefly summarize the issue or problem that has triggered the need for the proposed amendment. Please include any real-world project examples.

Trees that are planted with insufficient space, poor nursery stock, circling roots, and/or planted too far below or above grade will always have stunted growth and perhaps die within 3 to 10 years. Other factors influencing tree health are soils, watering, and young tree pruning. Best management practices are provided in ANSI 300, and those are required in most municipal codes.

Some of the issues include extraneous installation of "breather tubes," stakes that limit trunk development and/or are never removed, inadequate volume for root growth, grates that are not modified and eventually choke tree trunk, filter fabrics and root barriers that restrict root growth unnecessarily, and more. Alternatives could be offered, such as permeable pavements.

Many trees are planted, in private developments and public works projects, without the supervision of an arborist. That is a code enforcement problem, but first the specifications must clearly create conditions for optimal tree health and survival.

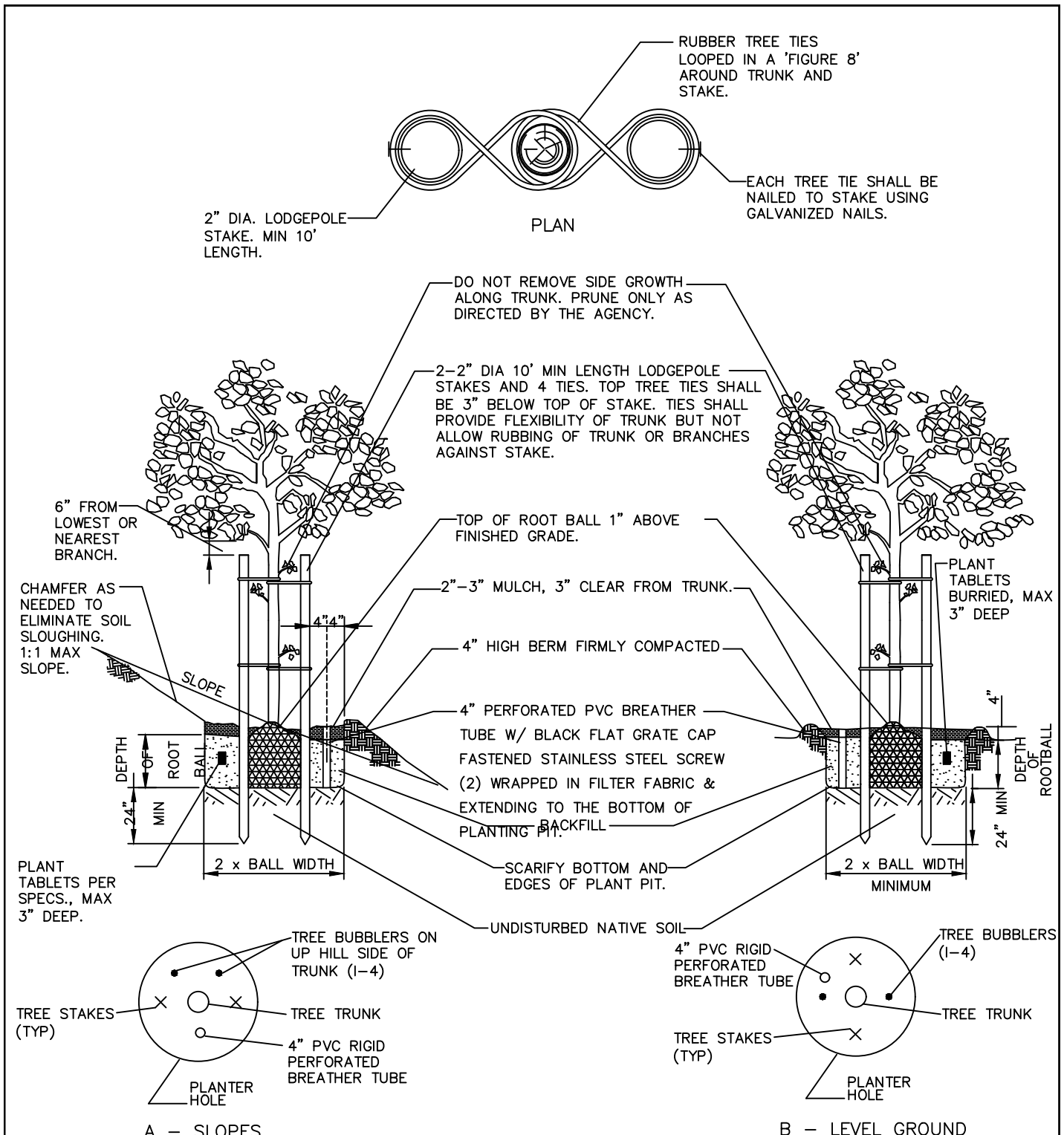
Objective* Provide a one or two sentence statement of what you want to achieve with the proposed [revisions to the drawings].

Align City code with best management practices from arboriculture, and ANSI standards. Modify current drawings to reflect local conditions.

Solution* Briefly summarize how you propose to address the issue and achieve the objective with the proposed [revisions to the drawings].

Specifications for tree planting, stakes, grates, sidewalks, nursery stock, and other have been developed by national experts, available at http://urbantree.org/details_specs.shtml. Specifications for green streets and urban parkways were developed in the Urban Greening Project for Midway-Pacific Highway community plan update, and are incorporated into the City's Street Design Manual, <https://www.sandiego.gov/planning/programs/transportation/library/stdesign>. Recommended changes will be drawn from both sets of specifications.

File Attachments* Marks on each drawing to indicate revisions.



NOTES

1. DOUBLE STAKE 15 GAL. AND LARGER TREES. SINGLE STAKE TREES SMALLER THAN 15 GAL.
2. FOR SINGLE STAKED TREES, PLACE STAKE ON WINDWARD SIDE OF TREE.
3. LOCATE STAKES OUTSIDE OF ROOTBALL.
4. PROVIDE MINIMUM DISTANCE FROM OTHER OBJECTS AS FOLLOWS:
20' TRAFFIC SIGNALS, 12' STREET LIGHTS, 10' FIRE HYDRANTS, SEWER LINES AND SDG&E FOR PAD MOUNTED EQUIPMENT, AND 5' UNDERGROUND SDG&E ELECTRIC AND GAS LINES.

| Revision | By | Approved | Date |
|---------------|-----|------------|-------|
| ORIGINAL | | Kercheval | 12/75 |
| Delete Metric | SJG | N. Batta | 06/11 |
| Reviewed | HM | T. Stanton | 10/15 |
| Reviewed | EW | T. Stanton | 10/18 |

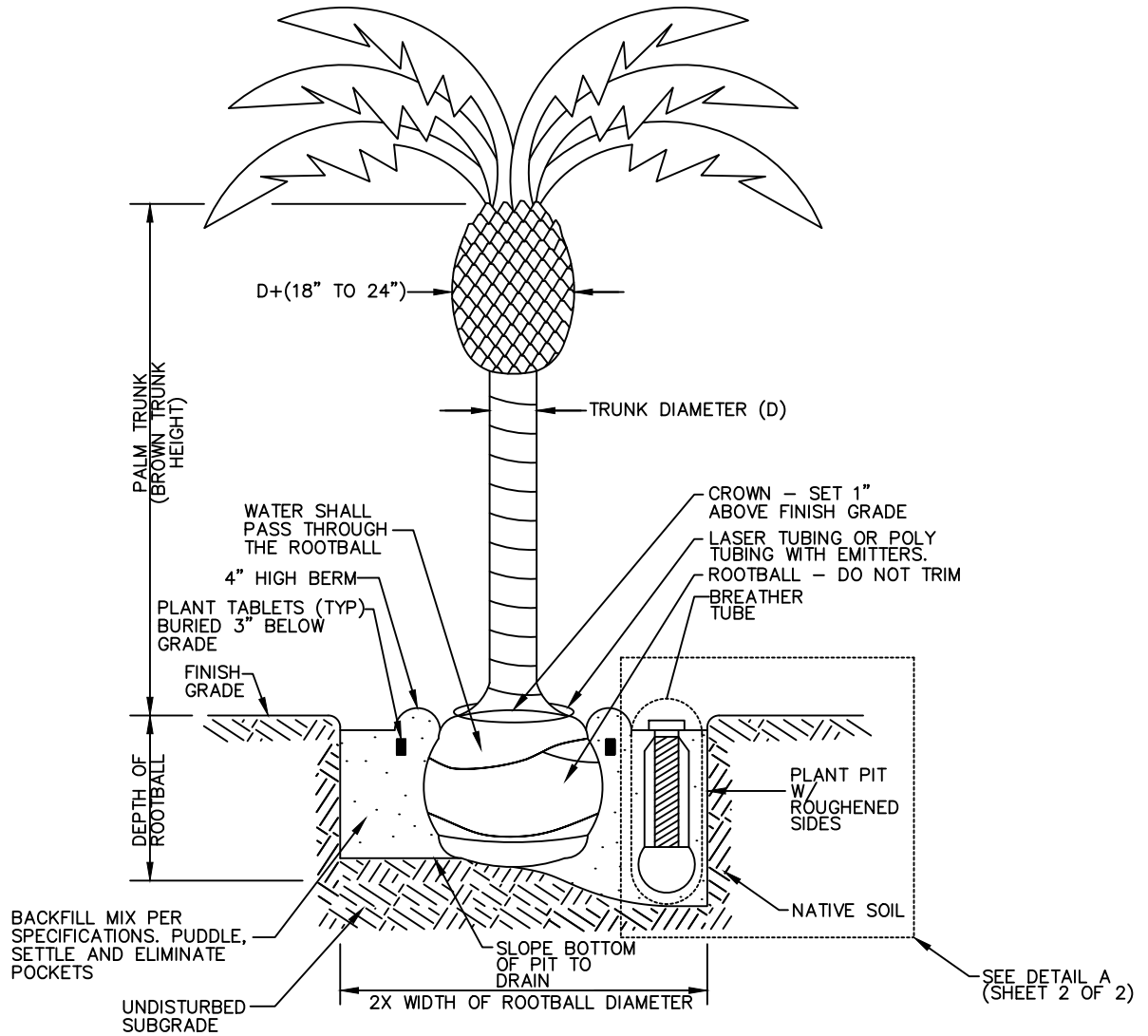
SAN DIEGO REGIONAL STANDARD DRAWING

TREE PLANTING AND STAKING

RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE

T. Stanton 10/25/2018
Chairperson R.C.E. 19246 Date

DRAWING NUMBER L-01

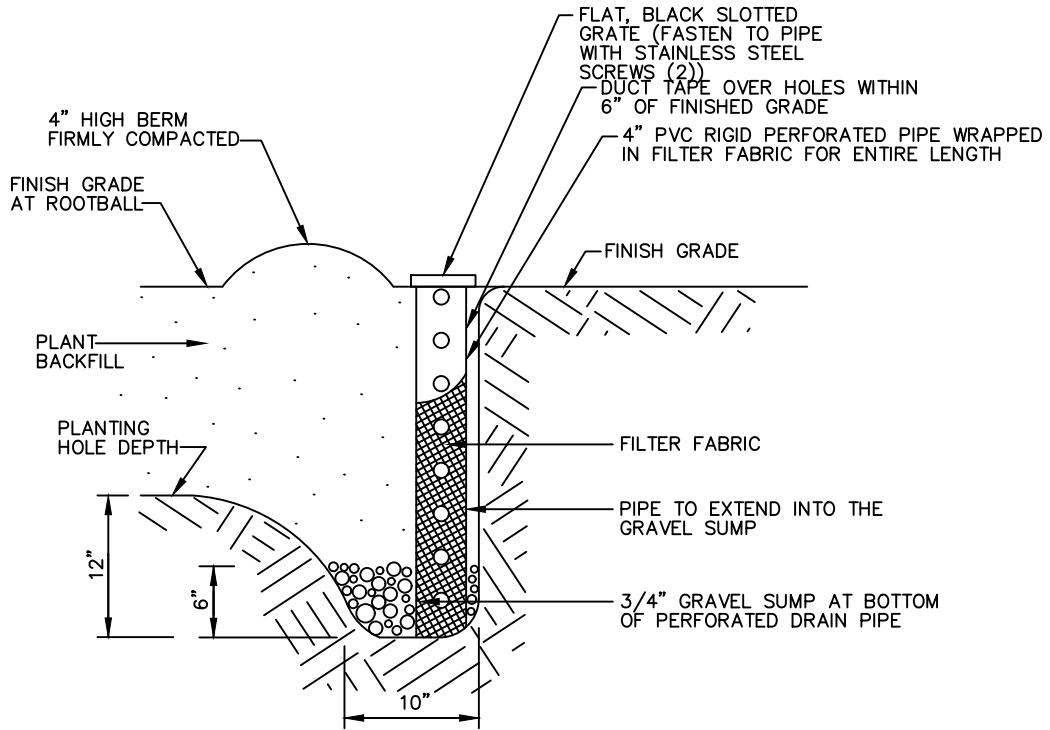


NOTES:

1. TIE PALM FRONDS TOGETHER WITH BIODEGRADABLE SISAL TWINE. TWINE SHALL BE REMOVED AFTER 90 DAYS OF TRANSPLANTING UNLESS OTHERWISE DIRECTED BY THE AGENCY.
2. PALM TRUNKS SHALL BE SKINNED, TRIMMED, AND VERTICAL.
3. STEM DIAMETER REQUIREMENT APPLIES ONLY TO PHOENIX SPECIES.

SHEET 1 OF 2

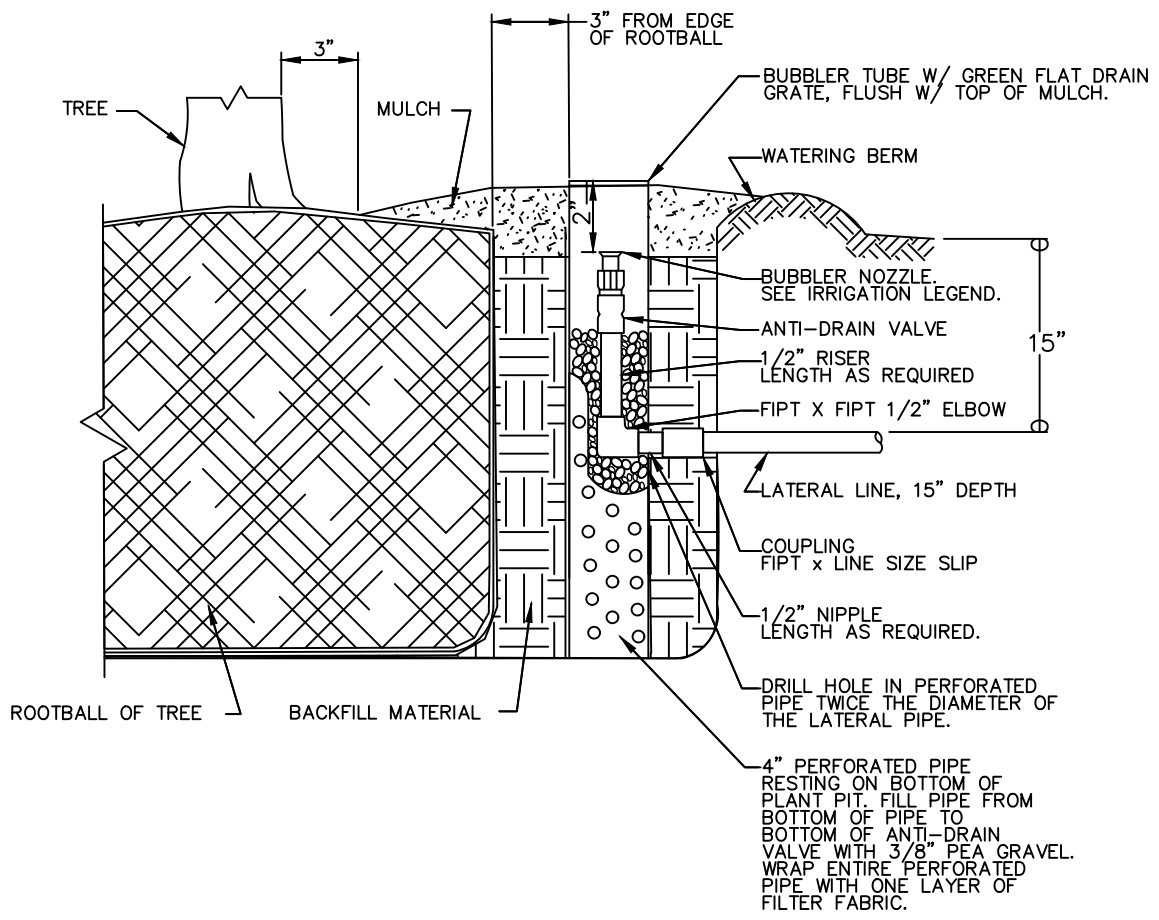
| Revision | By | Approved | Date | SAN DIEGO REGIONAL STANDARD DRAWING | RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE |
|----------|----|-----------|-------|-------------------------------------|---|
| ORIGINAL | KA | N. Batta | 06/11 | | PALM TREE PLANTING |
| Reviewed | HM | T.Stanton | 10/15 | | |
| Reviewed | EW | T.Stanton | 10/18 | | |
| | | | | | DRAWING NUMBER L-07 |



DETAIL - A
BREATHER TUBE

SHEET 2 OF 2

| Revision | By | Approved | Date | SAN DIEGO REGIONAL STANDARD DRAWING | RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE |
|----------|----|------------|-------|-------------------------------------|---|
| ORIGINAL | KA | N. Batta | 06/11 | | PALM TREE PLANTING |
| Reviewed | HM | T. Stanton | 10/15 | Chairperson R.C.E. 19246 Date | |
| Reviewed | EW | T. Stanton | 10/18 | DRAWING NUMBER L-07 | |
| | | | | | |



NOTES:

1. FOR BUBBLER LOCATION, REFER TO TREE PLANTING AND STAKING DRAWING.
2. EACH TREE SHALL HAVE A 2" POP-UP HEAD WITH BUBBLER NOZZLE PER 1-3 AND A FIXED BUBBLER NOZZLE IN A PERFORATED PIPE.
3. NIPPLES AND RISERS SHALL BE PVC SCH 80.
4. FITTINGS SHALL BE PVC SCH 40.
5. TEFLON TAPE SHALL BE USED ON THREADED CONNECTIONS.
6. CLOSE NIPPLES SHALL NOT BE USED.
7. ANTI-DRAIN VALVES SHALL BE INSTALLED UNDER ALL HEADS.

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|----------|----|------------|-------|-------------------------------------|---|
| Revision | By | Approved | Date | SAN DIEGO REGIONAL STANDARD DRAWING | RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE |
| ORIGINAL | | M. CARO | 02/05 | | |
| Update | KA | N. Batta | 11/11 | DEEP ROOT TREE BUBBLER | <i>T. Stanton</i> 10/25/2018 |
| Reviewed | KA | N. Batta | 10/15 | | Chairperson R.C.E. 19246 Date |
| Reviewed | EW | T. Stanton | 10/18 | | DRAWING NUMBER 1-04 |