

## GENERAL REQUIREMENTS FOR LANDSCAPE WORK AT USF

THIS GENERAL REQUIREMENTS APPLY TO ALL LANDSCAPE MATERIAL AND IRRIGATION SYSTEM INSTALLATION WORK ON USF CAMPUS COMPLETED UNDER ALL MINOR PROJECTS CONTRACTS OR PURCHASE ORDERS. THE CONTRACTOR SHALL ACKNOWLEDGE, SIGN AND ATTACH A COPY OF THIS **GENERAL REQUIREMENTS FOR LANDSCAPE WORK AT USF** AS AN ATTACHMENT TO PROPOSAL OR BID.

### GENERAL REQUIREMENTS

#### **A IRRIGATION SYSTEM** (CHECK ALL APPLICABLE LINES)

1.  **INSTALLER WARRANTY:** THE ENTIRE IRRIGATION SYSTEM, INCLUDING ALL WORK DONE UNDER THIS IN THIS CONTRACT/PURCHASE ORDER, SHALL BE WARRANTEE AGAINST ALL DEFECTS AND FAULT OF MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR FOLLOWING SUBSTANTIAL COMPLETION OF THE WORK ISSUED BY THE OWNER.
2.  **MATERIAL WARRANTY:** ALL MATERIALS USED SHALL CARRY A MANUFACTURER'S WARRANTY OF ONE (1) YEAR.
3.  **WARRANTY SERVICE:** SHOULD ANY PROBLEM WITH THE IRRIGATION SYSTEM BE DISCOVERED WITHIN THE WARRANTY PERIOD, IT SHALL BE CORRECTED BY CONTRACTOR AT NO COST TO THE OWNER WITHIN 14 CALENDAR DAYS OF RECEIPT OF NOTICE FROM THE OWNER.
4.  **OWNER TRAINING.** AFTER THE IRRIGATION SYSTEM IS INSTALLED AND APPROVED, THE OWNER SHALL BE INSTRUCTED IN THE COMPLETE OPERATION AND MAINTENANCE OF THE SYSTEM BY THE CONTRACTOR.
5.  **RECORD DRAWINGS:** THE CONTRACTOR SHALL DOCUMENT THE CHANGE OF THE EXISTING IRRIGATION AND LOCATIONS OF INSTALLED IRRIGATION DURING THE CONSTRUCTION. AT THE COMPLETION OF THE PROJECT, THE CONTRACTOR SHALL PROVIDE THE OWNER AS-BUILT DRAWING.
6.  **GUIDELINES:** CONTRACTOR HAS READ AND UNDERSTOOD THE REQUIREMENT OF THE IRRIGATION AND LANDSCAPE GUIDELINES FOR MINOR PROJECTS.

#### **B LANDSCAPE MATERIAL** (CHECK ALL APPLICABLE LINES)

1.  ALL PLANTS AND PLANTING MATERIAL SHALL MEET OR EXCEED THE SPECIFICATIONS OF FEDERAL, STATE AND COUNTY LAWS REQUIRING INSPECTION FOR DISEASE AND INSECT CONTROL.
2.  **QUALITY AND SIZE:** QUALITY AND SIZE SHALL CONFORM TO THE CURRENT EDITION OF 'GRADES AND STANDARDS FOR NURSERY PLANTS' FOR FLORIDA FANCY AND FLORIDA #1 GRADE BY FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES AND 'HORTICULTURAL STANDARDS' FOR NUMBER ONE GRADE NURSERY STOCK AS ADOPTED BY THE AMERICAN ASSOCIATION OF NURSERYMEN.
3.  **SELECTION:** ALL TREE MATERIALS SHALL BE TAGGED BY THE OWNER AT THE TREE FARM/NURSERY PRIOR TO PURCHASE. THE OWNER RESERVE THE RIGHT TO REJECT ANY PLANT MATERIAL DELIVERED TO THE SITE THAT IS NOT IN CONFORMANCE WITH THE REQUIREMENTS MENTIONED ABOVE.
4.  **HANDLING AND DELIVERY:** CONTRACTOR SHALL PERFORM HANDLING AND DELIVERY CAREFULLY AS NOT TO DAMAGE THE BARK OR BRANCHES. DAMAGE TO THE BARK WILL RESULT IN REJECTION OF THE PLANT MATERIALS.
5.  **TEMPORARY STORAGE AND PROTECTION:** PROTECT PLANTS AT ALL TIMES FROM SUN AND DRYING WINDS ALL THE TIME. PLANTS THAT CANNOT BE PLANTED IMMEDIATELY ON DELIVERY SHALL BE KEPT IN THE SHADE, WELL PROTECTED WITH NECESSARY MATERIALS, AND SHALL BE KEPT WELL-WATERED.
6.  **MAINTENANCE:** CONTRACTOR SHALL BEGIN MAINTENANCE OF INSTALLED LANDSCAPE MATERIALS IMMEDIATELY FOLLOWING THE COMPLETION OF PLANTING OPERATIONS. CONTRACTOR TO SUPPLY ALL LABOR AND EQUIPMENT FOR WATERING OPERATION UNTIL THE DATE OF SUBSTANTIAL COMPLETION ACCEPTANCE ISSUED BY THE OWNER. IF NO PERMANENT IRRIGATION WAS INSTALLED PROVIDE WATERING FOR PLANTS FOR UP TO SIXTY (60) DAYS. IF PERMANENT IRRIGATION WAS INSTALLED OR AVAILABLE ON SITE, CONTRACTOR SHALL ADVISE THE OWNER WATERING SCHEDULES. CONTRACTOR SHALL MAINTAIN TREES, SHRUBS AND OTHER PLANTS UNTIL FINAL ACCEPTANCE, BUT IN NO CASE LESS THAN SIXTY (60) DAYS AFTER SUBSTANTIAL COMPLETION.
7.  **WARRANTY:** ALL TREES & SHRUBS SHALL BE PROVIDED WITH ONE (1) YEAR WARRANTY. ALL SOD SHALL BE PROVIDED WITH THIRTY (30) DAYS WARRANTY. AT THE CONCLUSION OF THE WARRANTY PERIOD, A FINAL INSPECTION OF THE WORK WILL BE MADE TO DETERMINE THE CONDITION OF THE PLANT MATERIAL. ALL PLANT MATERIAL NOT IN A HEALTHY OR 40% DEFOLIATED GROWING CONDITION WILL BE NOTED. THE CONTRACTOR SHALL REPLACE THE NOTED PLANT MATERIALS OF LIKE KIND AND SIZE AND IN A MANNER SPECIFIED BY THE ORIGINAL PLANTING AT NO COST TO THE OWNER WITHIN THIRTY (30) CALENDAR DAYS OF RECEIPT OF NOTICE FROM THE OWNER. CONTRACTOR SHALL NOT BE LIABLE FOR WARRANTY COVERAGE FOR ANY DAMAGE TO LANDSCAPE MATERIAL BEYOND THE CONTROL AND WITHOUT FAULT OR NEGLIGENCE OF THE CONTRACTOR.

**C LANDSCAPE PLANTING REQUIREMENTS** (CHECK  ALL APPLICABLE LINES)

1.  **TREE PLANTING**

**PRUNE TREE ONLY TO REMOVE DEAD OR BROKEN TWIGS; DO NOT PRUNE TO MODIFY SIZE OR SHAPE.**

**CUT & REMOVE ALL TWINE AND WIRE FROM ROOT BALL & TREE; PEEL & REMOVE BURLAP FROM TOP OF ROOT BALL.**

**DIG & TURN SOIL TO LOOSEN SOIL IN EXCAVATED AREA 3X WIDEST DIMENSION OF ROOT BALL, ABOVE BOTTOM ELEVATION OF ROOT BALL**

**PLANT TREE SO THAT ROOT FLARE IS VISIBLE; DO NOT PLACE SOIL OR MULCH ON TOP OF ROOT BALL.**

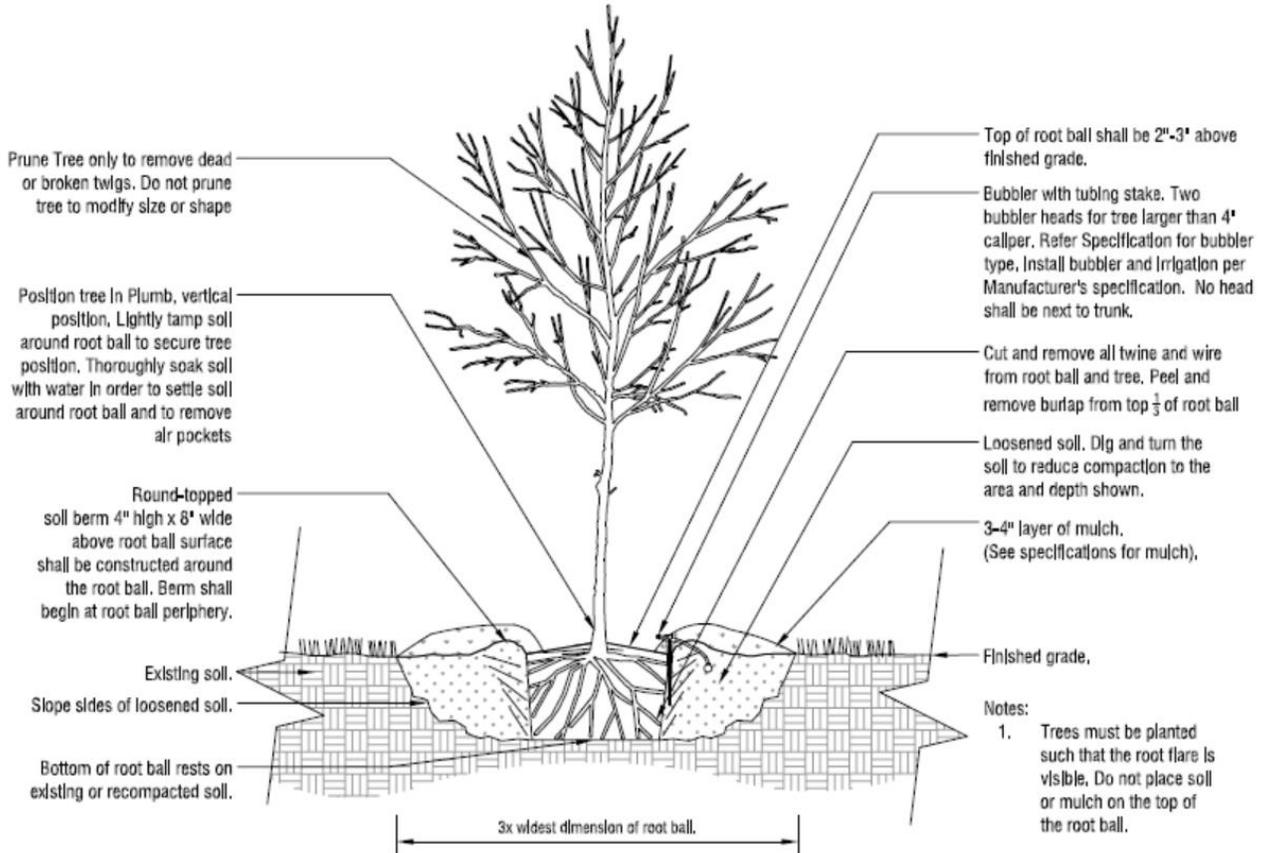
**TOP OF ROOT BALL SHALL BE 2" - 3" ABOVE FINISHED GRADE; BOTTOM OF ROOT BALL SHALL REST ON EXISTING OR RE-COMPACTED SOIL.**

**POSITION TREE IN A PLUMB, VERTICAL POSITION. LIGHTLY TAMP SOIL AROUND ROOT BALL, THOROUGHLY SOAK SOIL WITH WATER TO SETTLE SOIL AROUND ROOT BALL AND REMOVE AIR POCKETS.**

**INSTALL BUBBLER WITH TUBING STAKE, TWO BUBBLER HEADS FOR TREE LARGER 4" CALIPER. DO NOT PLACE HEADS NEXT TO TRUNK.**

**AT ROOT BALL PERIPHERY & ABOVE ROOT BALL SURFACE, CONSTRUCT A ROUND-TOPPED SOIL BERM 4" HIGH X 8" WIDE AROUND THE ROOT BALL.**

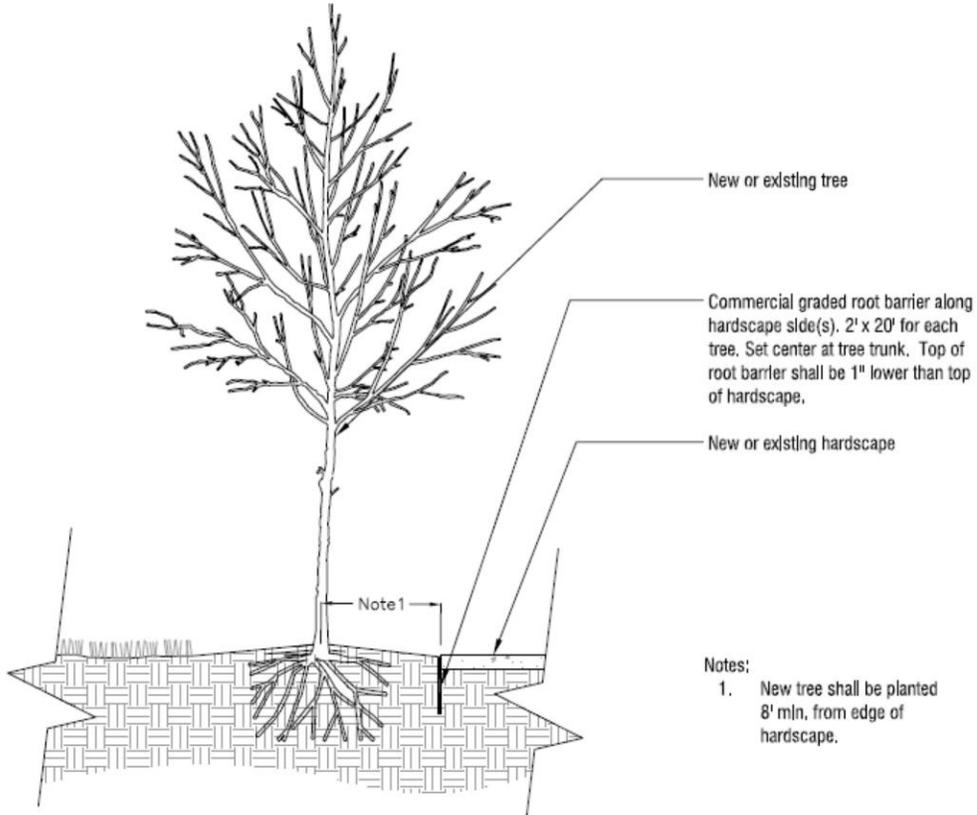
**PLACE 3-4" LAYER OF MULCH.**



2.  TREE ROOT BARRIER

NEW TREE SHALL BE PLANTED MINIMUM 8' FROM EDGE OF HARDSCAPE.

INSTALL COMMERCIAL GRADE ROOT BARRIER ALONG HARDSCAPE SIDE(S); 2" x 20' FOR EACH TREE. SET CENTER AT TREE TRUNK; TOP OF ROOT BARRIER SHALL BE 1" LOWER THAN TOP OF HARDSCAPE.



3.  **TREE GUYING & STAKING**

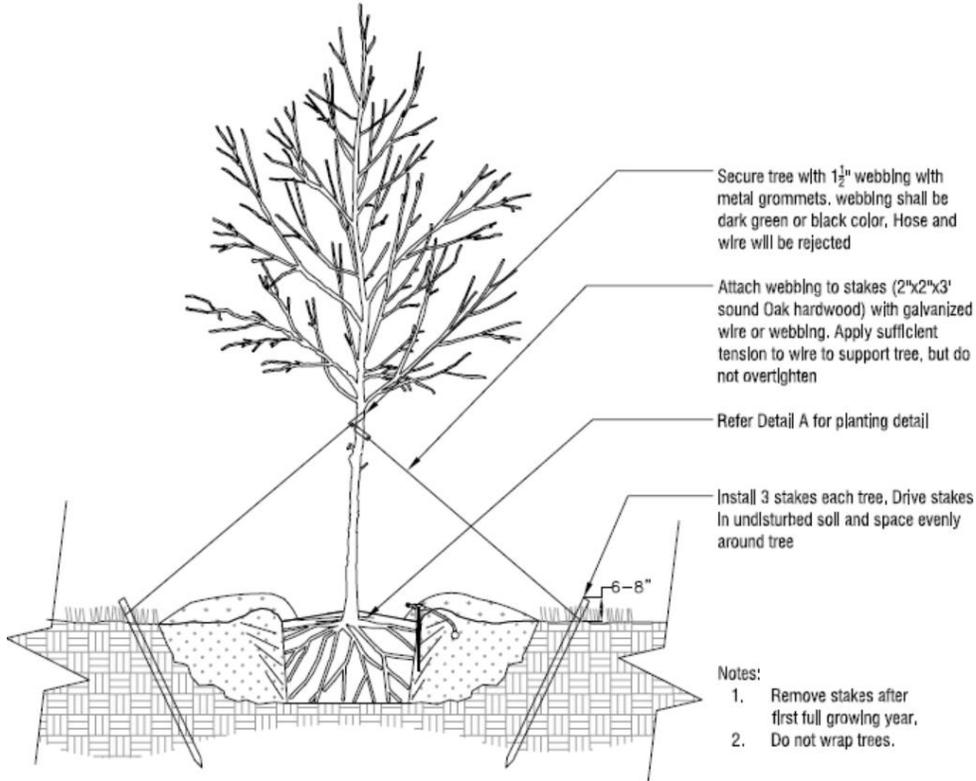
SECURE TREE WITH 1 1/2" WEBBING WITH METAL GROMMETS; WEBBING SHALL BE DARK GREEN OR BLACK COLOR. DO NOT USE HOSE AND WIRE.  
**DO NOT WRAP TREE.**

ATTACH WEBBING TO STAKES (2" x 2" x 3' SOUND OAK HARDWOOD) WITH GALVANIZED WIRE OR WEBBING.

APPLY SUFFICIENT TENSION TO WIRE TO SUPPORT TREE, BUT DO NOT OVERTIGHTEN.

INSTALL 3 STAKES EACH TREE. DRIVE STAKES IN UNDISTURBED SOIL AND SPACE EVENLY AROUND TREE. EXPOSE TOP OF STAKE 6" TO 8" ABOVE GARDE.

REMOVE STAKES AFTER FIRST FULL GROWING YEAR.



**D REFERENCES**

1.  [PMG 17, TREE PROTECTION & REPLACEMENT GUIDELINES](#)
2.  [PMG 17A, GENERAL REQUIREMENTS FOR LANDSCAPE WORK AT USF](#)
3.  [PMG 17B, IRRIGATION & LANDSCAPE GUIDELINES FOR MINOR PROJECTS](#)
4.  [PMG 17C, MULCH STANDARDS](#)

**CONTRACTOR ACKNOWLEDGEMENT:**

THE CONTRACTOR, UNDERSIGNED, ACKNOWLEDGE THE GENERAL REQUIREMENTS FOR LANDSCAPE WORK ON USF CAMPUS

SIGN

DATE

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