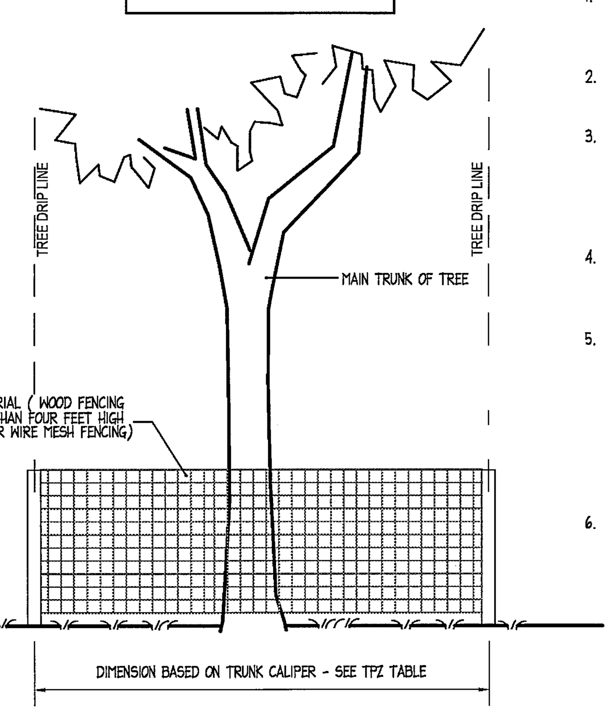
11 TREE / PALM PROTECTION DETAIL

TREE PROTECTION ZONE (TPZ) TABLE

TRUNK DIAMETER	MINIMUM PROTECTION DISTANCE REQUIRED
0-6"	6X6' ENCLOSURE
INCREASE ENCLOSURE 2 SQUARE FEET FOR EVERY ADDITIONAL INCH OF TRUNK CALIPER	



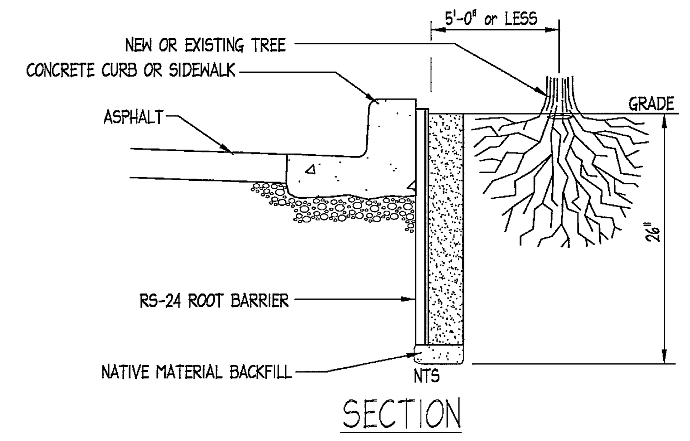
NOTES:

1. NO SOIL GRADE CHANGES OR COMPACTION SHALL TAKE PLACE WITHIN THE TPZ (TREE PROTECTION ZONE), EXCEPT AS DIRECTED.
2. NO STORAGE OF MATERIAL SHALL BE ALLOWED WITH THE TPZ.
3. IF WORK IS DONE WITHIN THE TPZ, CARE MUST BE TAKEN TO MINIMIZE ROOT DISTURBANCE. SPECIAL CARE SHALL BE TAKEN DURING EXCAVATION AND REMOVAL OF EXISTING MATERIALS TO AVOID DAMAGE TO TREE ROOTS. LOCATE EXISTING TREE ROOTS USING HAND TOOLS.
4. PROTECTIVE FENCING IS REQUIRED WHEN THE WORK AREA IS WITHIN THE TPZ EXCEPT WHERE PORTIONS OF THE TPZ ARE COVERED WITH PAVEMENT SUCH AS STREETS OR WALKS.
5. NO ROOTS OVER 2" IN DIAMETER SHALL BE CUT WITHOUT APPROVAL OF AN APPROVED ARBORIST. NO ROOTS SHALL BE CUT OR TORN DURING TRENCHING WITH POWER EQUIPMENT SUCH AS BACKHOES AND TRENCHERS. ROOTS SHALL BE CUT WITH APPROVED SAWS. UTILITY LINES AND IRRIGATION OR OTHER PIPES SHALL BE INSTALLED BY HAND DIGGING OR TUNNELING UNDER ROOTS, AS NECESSARY TO AVOID CUTTING ROOTS 2" AND LARGER.
6. IF TREES ARE IN GROUPS OF TWO OR MORE, CONTRACTOR CAN HAVE PROTECTIVE FENCING SURROUNDING MULTIPLE TREES WITHIN ONE ENCLOSURE.

SCALE: NOT TO SCALE

10 ROOT MANAGEMENT DETAIL

NOTES:
1. THE RAISED ROOT GUIDING RIBS MUST BE FACING TOWARDS THE TREE ROOTS.
2. THE TOP OF THE BARRIER PANELS MUST BE SLIGHTLY ABOVE GRADE (NEVER BELOW GRADE).
3. POSITION BARRIER PANELS VERTICALLY WITH TOP AGAINST THE STRUCTURE TO BE PROTECTED.
4. SEE LANDSCAPE SITE PLAN TO DETERMINE TREES THAT REQUIRE BARRIER PANEL.



SECTION

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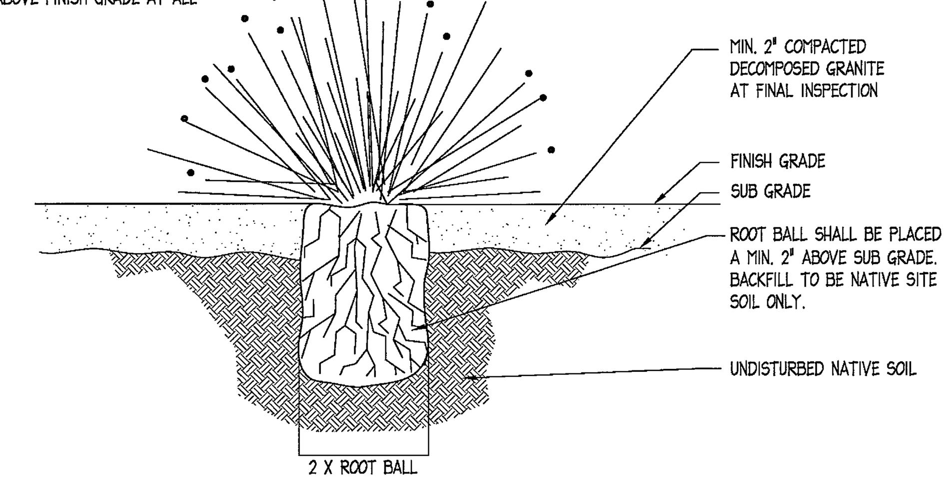
9 SHRUB PLANTING DETAIL

NOTE: LANDSCAPE CONTRACTORS SHALL PROTECT EXPOSED ROOT BALL ABOVE FINISH GRADE AT ALL TIMES



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4 TREE STAKING DETAIL - TREES 75MM (3 IN.) CALIPER OR LARGER

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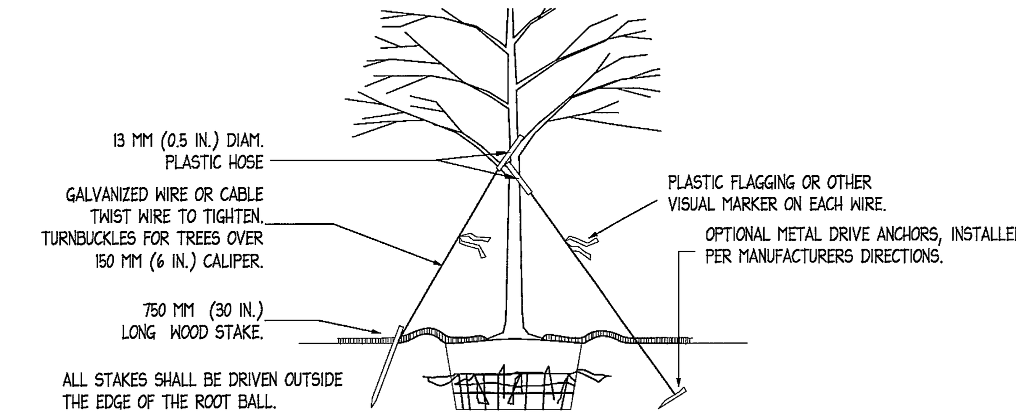
WIRE OR CABLE SIZES SHALL BE AS FOLLOWS:
TREES UP TO 65 MM (2.5 IN.) CALIPER - 14 GAUGE
TREES 65 MM (2.5 IN.) TO 75 MM (3 IN.) CALIPER - 12 GAUGE
TIGHTEN WIRE OR CABLE ONLY ENOUGH TO KEEP FROM SLIPPING. ALLOW FOR SOME TRUNK MOVEMENT. PLASTIC HOSE SHALL BE LONG ENOUGH TO ACCOMMODATE 35MM (1.5 IN.) OF GROWTH AND BUFFER ALL BRANCHES FROM THE WIRE.
TUCK ANY LOOSE ENDS OF THE WIRE OR CABLE INTO THE WIRE WRAP SO THAT NO SHARP WIRE ENDS ARE EXPOSED.
INSTALL THREE GUY WIRES PER TREE, SPACED EVENLY AROUND THE TRUNK.



ASSURE THAT THE BEARING SURFACE OF THE PROTECTIVE COVERING OF THE WIRE OR CABLE AGAINST THE TREE TRUNK IS A MINIMUM OF 12 MM (0.5 IN.).
REMOVE ALL STAKING AS SOON AS THE TREE HAS GROWN SUFFICIENT ROOTS TO OVERCOME THE PROBLEM THAT REQUIRED THE TREE TO BE STAKED. STAKES SHALL BE REMOVED NO LATER THE END OF THE FIRST GROWING SEASON AFTER PLANTING.
TREES NORMALLY DO NOT NEED TO BE STAKED AND STAKING CAN BE HARMFUL TO THE TREE. STAKING SHOULD BE DONE ONLY WITH THE APPROVAL OF THE LANDSCAPE ARCHITECT IF IT IS EXPECTED THAT THE TREE WILL NOT BE ABLE TO SUPPORT ITSELF. THE FOLLOWING ARE REASONS WHY TREES DO NOT REMAIN STRAIGHT.
o TREES WITH POOR-QUALITY ROOT BALLS OR ROOT BALLS THAT HAVE BEEN CRACKED OR DAMAGED. REJECT RATHER THAN STAKE.
o TREES THAT HAVE GROWN TOO CLOSE TOGETHER IN THE NURSERY, RESULTING IN WEAK TRUNKS. REJECT RATHER THAN STAKE.
o PLANTING PROCEDURES THAT DO NOT ADEQUATELY TAMP SOILS AROUND THE ROOT BALL. CORRECT THE PLANTING PROCEDURE.
o ROOT BALLS PLACED ON SOFT SOIL. TAMP SOILS UNDER ROOT BALL PRIOR TO PLANTING. o ROOT BALLS WITH VERY SANDY SOIL OR VERY WET CLAY SOIL. STAKING ADVISABLE.
o TREES LOCATED IN A PLACE OF EXTREMELY WINDY CONDITIONS. STAKING ADVISABLE.

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3 TREE STAKING DETAIL

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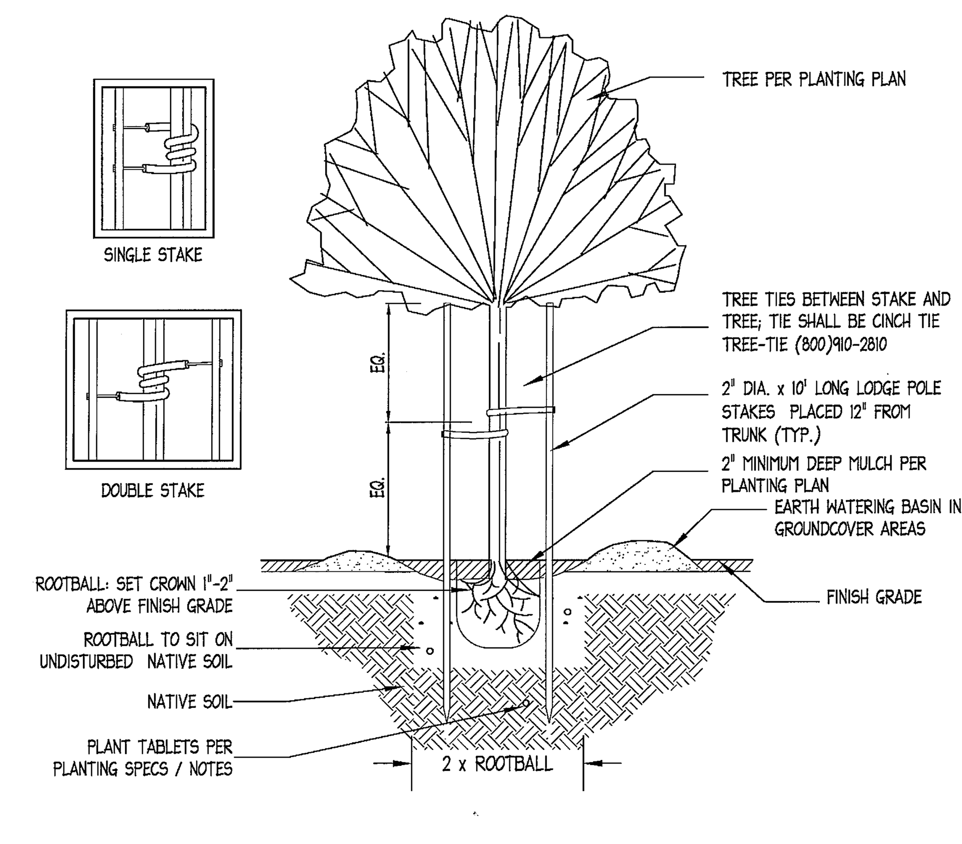

NOTES:
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS.
2. PROVIDE EXPANDABLE TRUNK GUARD IN TURF AREAS.

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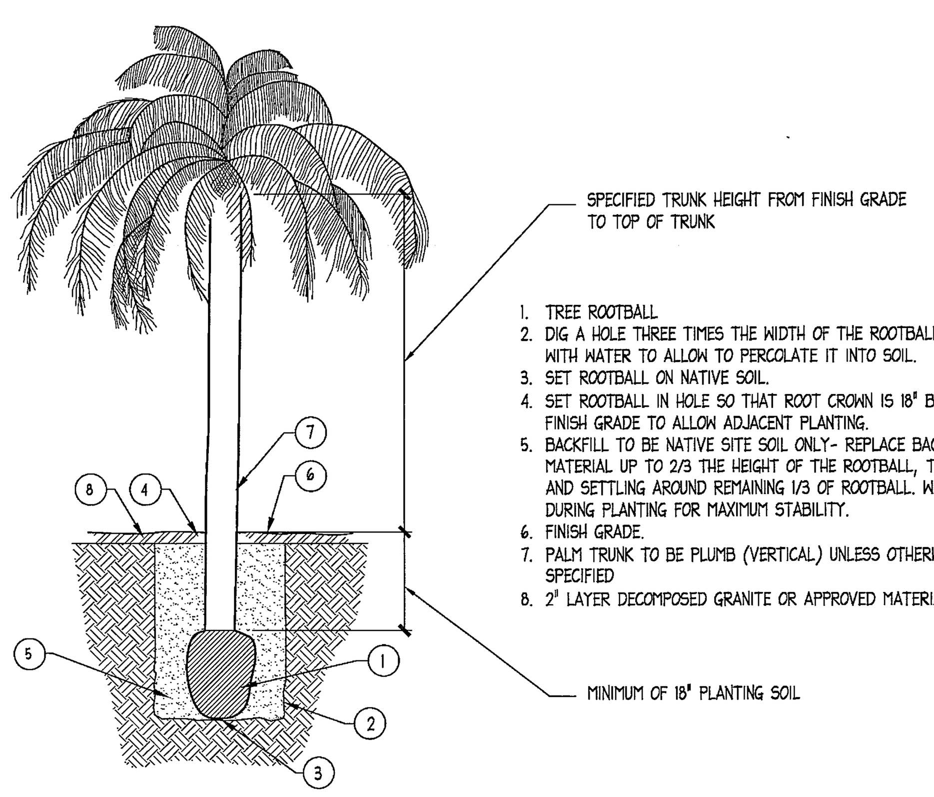
12 PALM TREE DETAIL



1. TREE ROOTBALL
2. DIG A HOLE THREE TIMES THE WIDTH OF THE ROOTBALL AND FILL WITH WATER TO ALLOW TO PERCOLATE IT INTO SOIL.
3. SET ROOTBALL ON NATIVE SOIL.
4. SET ROOTBALL IN HOLE SO THAT ROOT CROWN IS 18" BELOW FINISH GRADE TO ALLOW ADJACENT PLANTING.
5. BACKFILL TO BE NATIVE SITE SOIL ONLY- REPLACE BACKFILL MATERIAL UP TO 2/3 THE HEIGHT OF THE ROOTBALL, TAMPING AND SETTLING AROUND REMAINING 1/3 OF ROOTBALL. WATER DURING PLANTING FOR MAXIMUM STABILITY.
6. FINISH GRADE.
7. PALM TRUNK TO BE PLUMB (VERTICAL) UNLESS OTHERWISE SPECIFIED
8. 2" LAYER DECOMPOSED GRANITE OR APPROVED MATERIAL

PALM IN PLANTER

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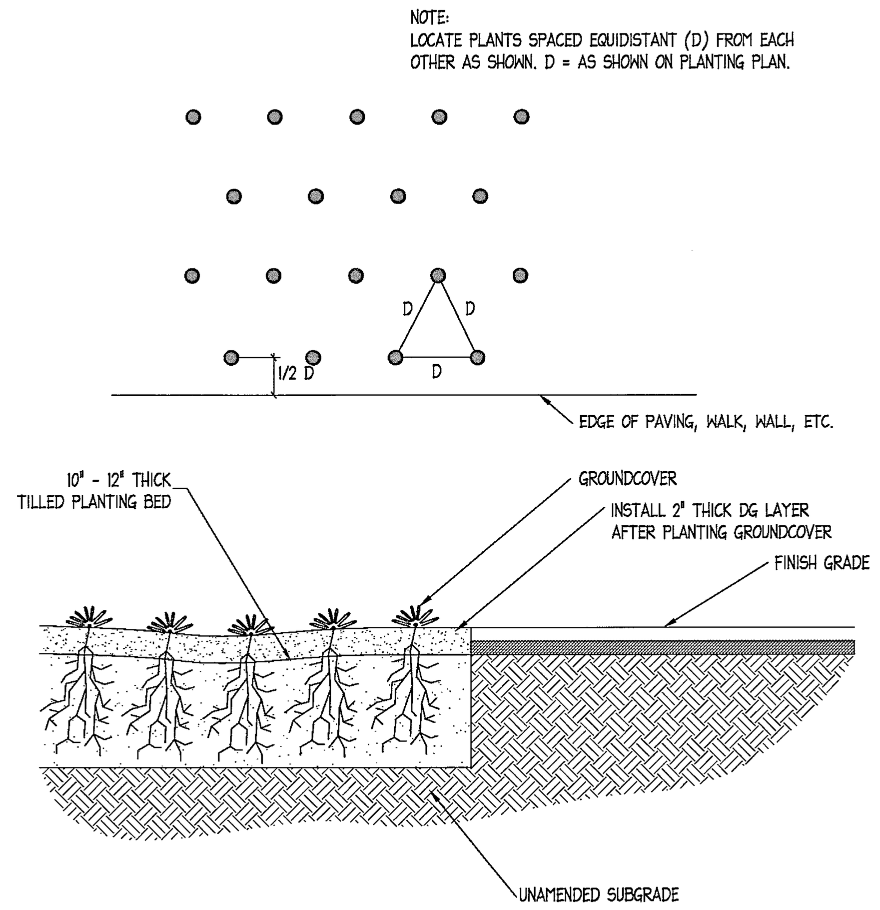
8 GROUND COVER DETAIL

NOTE:
LOCATE PLANTS SPACED EQUIDISTANT (D) FROM EACH OTHER AS SHOWN. D = AS SHOWN ON PLANTING PLAN.



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5 TREE PLANTING DETAIL

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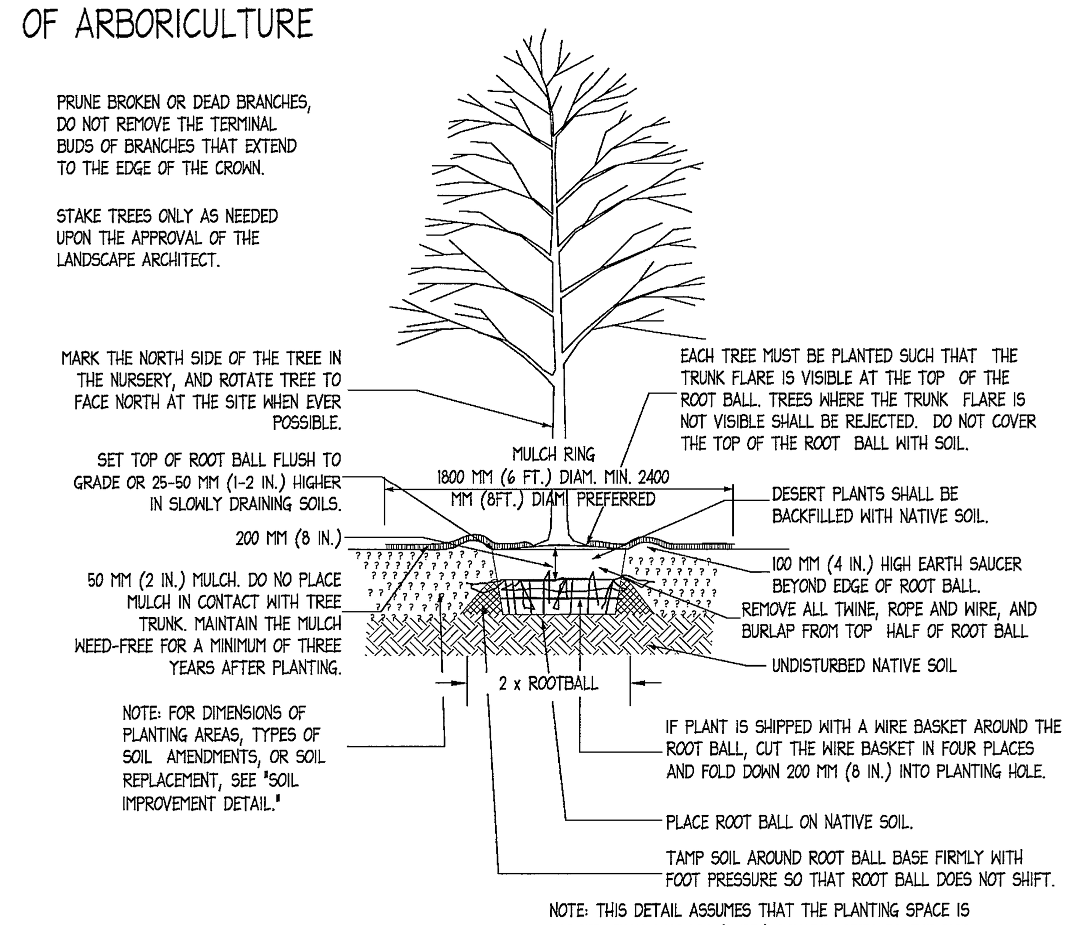
PRUNE BROKEN OR DEAD BRANCHES, DO NOT REMOVE THE TERMINAL BUDS OF BRANCHES THAT EXTEND TO THE EDGE OF THE CROWN.

STAKE TREES ONLY AS NEEDED UPON THE APPROVAL OF THE LANDSCAPE ARCHITECT.



NOTE: THIS DETAIL ASSUMES THAT THE PLANTING SPACE IS LARGER THAN 2400 MM (8 FT.) SQUARE, OPEN TO THE SKY, AND NOT COVERED BY ANY PAVING OR GRATING.

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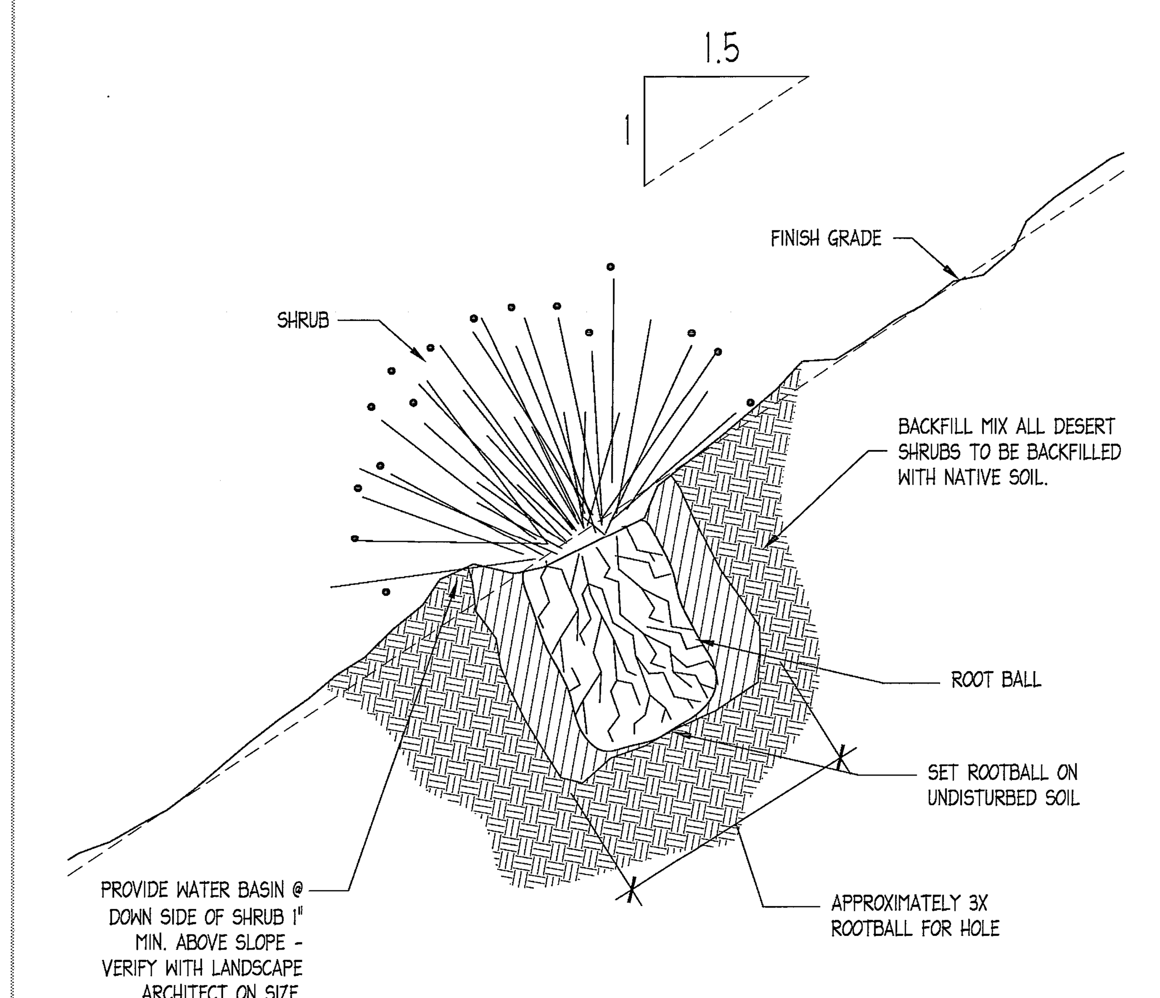
2 SHRUB PLANTING ON SLOPES



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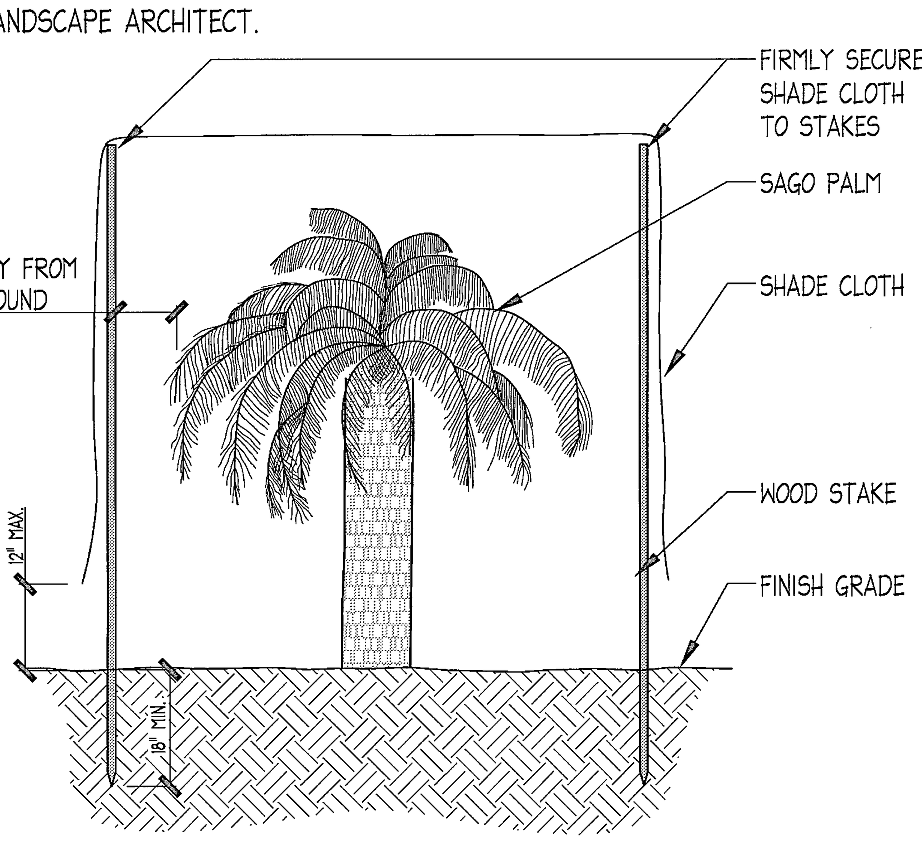
13 SAGO PALM SHADE DETAIL

SAGO PALM SHADE NOTES: SHADE CLOTH SHALL BE INSTALLED ON ALL 4 SIDES AND TOP OF PALM TREES. SHADE SHALL WITHSTAND PERIODIC HIGH WINDS AND SHALL BE STRUCTURALLY SOUND FOR A MINIMUM 6 MONTH PERIOD. ALL SHADES SHALL BE APPROVED BY LANDSCAPE ARCHITECT.



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7 SOIL IMPROVEMENT DETAIL

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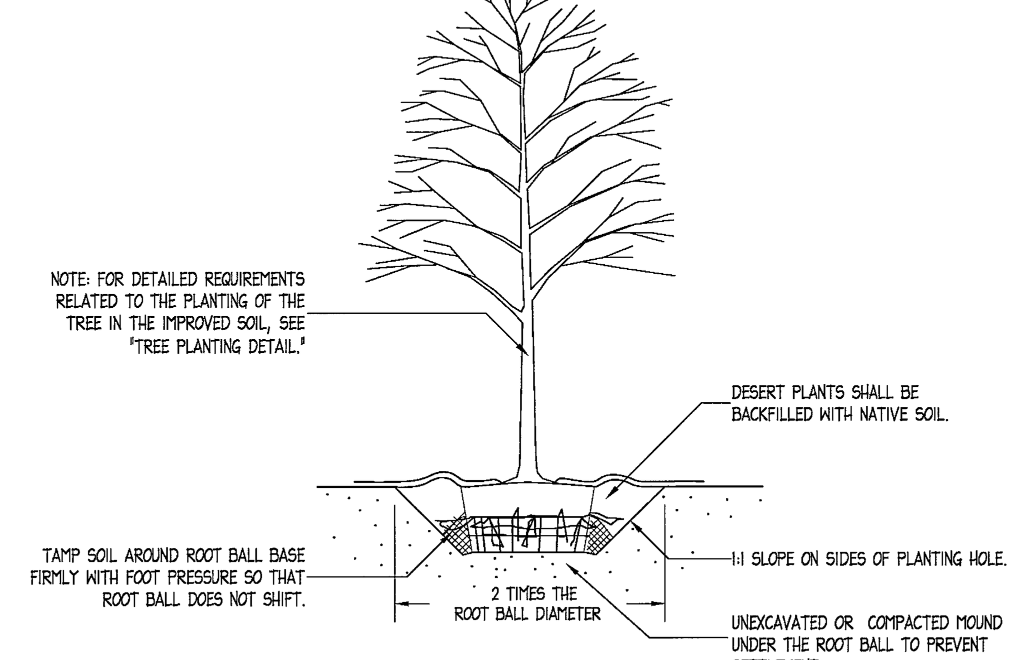

LOAMY SOILS
INCLUDE THE FOLLOWING USDA TEXTURAL CLASSIFICATIONS AND HAVE A CLAY CONTENT OF BETWEEN 15 TO 27%: LOAM, SANDY LOAM AND SILT LOAM. NOTE THAT SOILS AT THE OUTER LIMITS OF THE LOAM CLASSIFICATIONS MAY PRESENT SPECIAL PLANTING PROBLEMS NOT ANTICIPATED BY THIS DETAIL.
LOAMY SOILS ARE DEFINED AS GRANULAR OR BLOCKY FRIABLE SOILS, A MIXTURE OF SAND, SILT AND CLAY PARTICLES WITH A MINIMUM OF 1.5% BY DRY WEIGHT ORGANIC MATTER. THE SOIL MUST NOT BE SO COMPACTED AS TO IMPEDE ROOT GROWTH OR DRAINAGE.
THE SOIL STRUCTURE SHALL NOT BE PLATY OR MASSIVE. LANDSCAPE ARCHITECT RECOMMENDS TESTING FOR TEXTURE, DRAINAGE CAPABILITY, PH, AND NUTRIENT VALUES PRIOR TO PLANTING AND ANY ADDITIONAL SOIL IMPROVEMENTS.

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6 TREE PLANTING DETAIL

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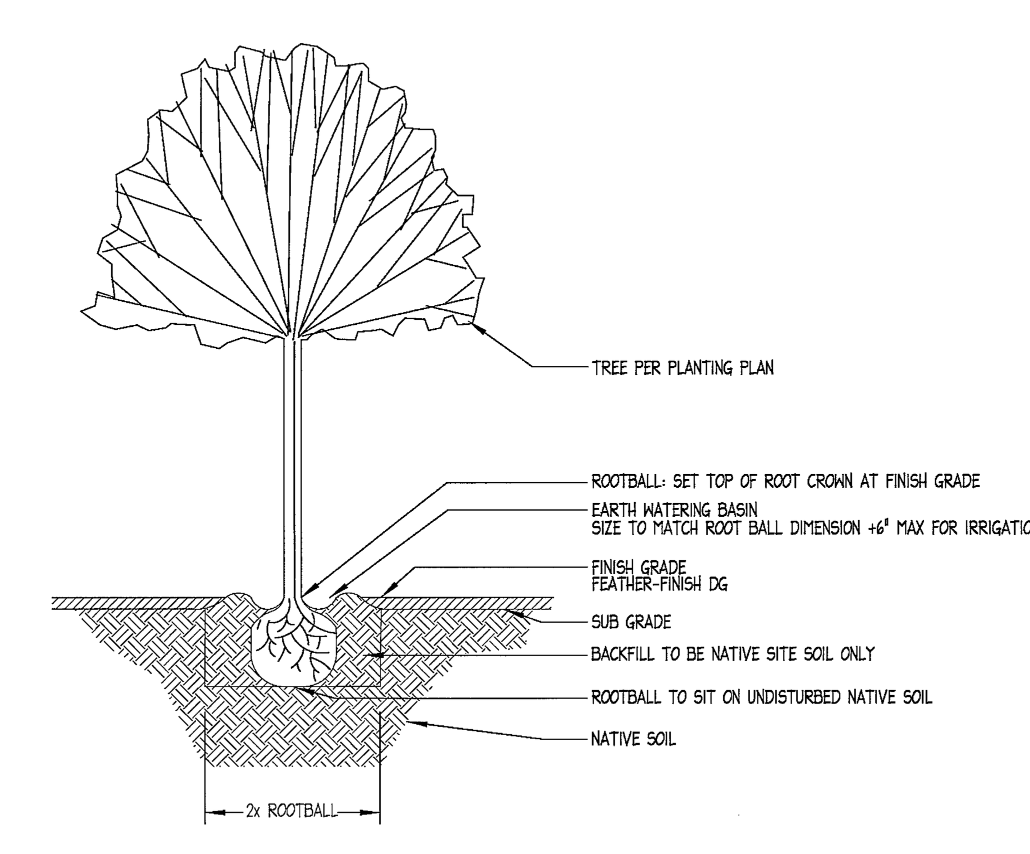

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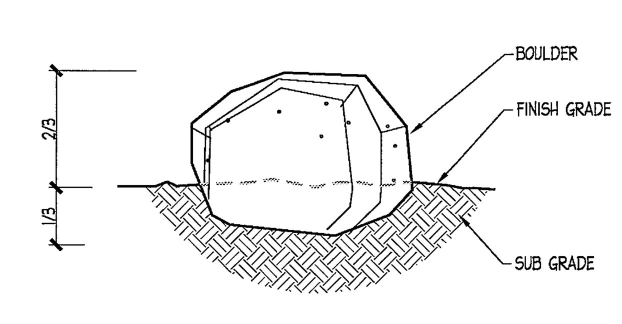
1 BOULDER DETAIL



NOTES:
1. BURY BOULDER A MIN. OF 1/3 BELOW FINISH GRADE
2. PLACE PER PLAN AND LANDSCAPE ARCHITECT'S DIRECTION

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LANDSCAPE ARCHITECT
LICENSED LANDSCAPE ARCHITECT RANDY W. PURNEL NO. 4275
Signature 12-31-10 Renewal Date 01/18/10 Date
STATE OF CALIFORNIA

BID SET

JAN 19 2010

PREVAILING WAGE JOB

PALM SPRINGS ANIMAL CARE FACILITY

4575 E. MESQUITE AVE.
PALM SPRINGS, CA 92262

CITY OF PALM SPRINGS
PROJECT NO. CP. 07-24

APN: 680-020-010

Issue: BID SET

Rev	Date	By	Description
1	11/23/09	RAJ	BUILDING PERMIT SET.
2	01/04/10	RAJ	BUILDING PERMIT RESUBMITTAL

FOR BID ONLY NOT FOR CONSTRUCTION

Drawn By RWP & RAJ
Checked By RWP
Job No. 0910
Issue Date 01/18/10
Scale As Noted

Drawing Title
PLANTING DETAILS

L6.1

Sheet

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