

SILVA CELL SYSTEM 2X

NOT TO SCALE

KEY PLAN

- (A) SILVA CELL SYSTEM (DECK, BASE, AND POSTS)
 (B) SUBGRADE, COMPACTED
 (C) GEOTEXTILE FABRIC, PLACED ABOVE SUBGRADE
 (D) 4" MIN AGGREGATE SUB BASE, COMPACTED TO 95% PROCTOR
 (E) SILVA CELL BASE SLOPE, 10% MAX
 (F) 1" TO 6" SPACING BETWEEN SILVA CELLS AT BASE
 (G) ANCHORING SPIKES, CONTACT DEEPROOF FOR ALTERNATIVE
 (H) GEOGRID, WRAPPED AROUND PERIMETER OF SYSTEM, WITH 6" TOE (OUTWARD FROM BASE) AND 12" EXCESS (OVER TOP OF DECK)
 (I) CABLE TIE, ATTACHING GEOGRID TO SILVA CELL AT BASE OF UPPER LEG FLARE, AS NEEDED
 (J) PLANTING SOIL, PER PROJECT SPECIFICATIONS, PLACED IN LIFTS AND WALK-IN COMPACTED TO 75-85% PROCTOR
 (K) COMPACTED BACKFILL, PER PROJECT SPECIFICATIONS
 (L) GEOTEXTILE FABRIC TO EDGE OF EXCAVATION
 (M) RIBBON CURB AT TREE OPENING (TO BE USED WITH PAVERS OR ASPHALT)
 (N) THICKENED EDGE AT TREE OPENING (TO BE USED WITH CONCRETE)
 (O) PAVEMENT AND AGGREGATE BASE PER PROJECT *

* MINIMUM PAVEMENT PROFILE OPTIONS TO MEET H-20 LOADING
 PAVEMENT + AGGREGATE BASE COURSE
 4" CONCRETE + 4" AGGREGATE
 3" PAVER + 12" AGGREGATE
 4" ASPHALT + 12" AGGREGATE

*MINIMUM PAVEMENT PROFILE OPTIONS TO MEET H-20 LOADING	
PAVEMENT	+ AGGREGATE BASE COURSE
4" CONCRETE	+ 4" AGGREGATE
3" PAVER	+ 12" AGGREGATE
4" ASPHALT	+ 12" AGGREGATE
2.6" PAVER	+ 5" CONCRETE

- ☐ D DEEPROOT ROOT BARRIER, 12" OR 18", DEPTH DETERMINED BY THICKNESS OF PAVEMENT SECTION, INSTALL DIRECTLY ADJACENT TO CONCRETE EDGE RESTRAINT
- ☐ Q PLANTING SOIL BELOW ROOT BALL, COMPACTED WELL TO PREVENT SETTLING
- ☐ R ROOT BALL
- ☐ S TREE OPENING TREATMENT, PER PROJECT SPECIFICATIONS
- ☐ T DEEPROOT WATER AND AIR VENT, ROOT BALL, WHEN REQUIRED
- ☐ U DEEPROOT WATER AND AIR VENT, WHEN REQUIRED
- ☐ V UNDERDRAIN SYSTEM, WHEN REQUIRED (LOCATION AND DETAILS BY OTHERS)

NOTES

1. EXCAVATION SHALL BE DONE IN ACCORDANCE WITH ALL APPLICABLE HEALTH AND SAFETY REGULATIONS
2. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS
3. PROVIDE SUPPLEMENTAL IRRIGATION
4. DO NOT SCALE DRAWINGS

SILVA CELL SYSTEM 2X

NOT TO SCALE
INCHES



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LARGE SHADE TREES (1,000 C.F. SOIL VOLUME)

- Gumbo Limbo
- Live Oak
- Poinciana
- Wild Tamarind
- Green Buttonwood

MEDIUM SHADE TREES (500 C.F. SOIL VOLUME)

- Satin Leaf

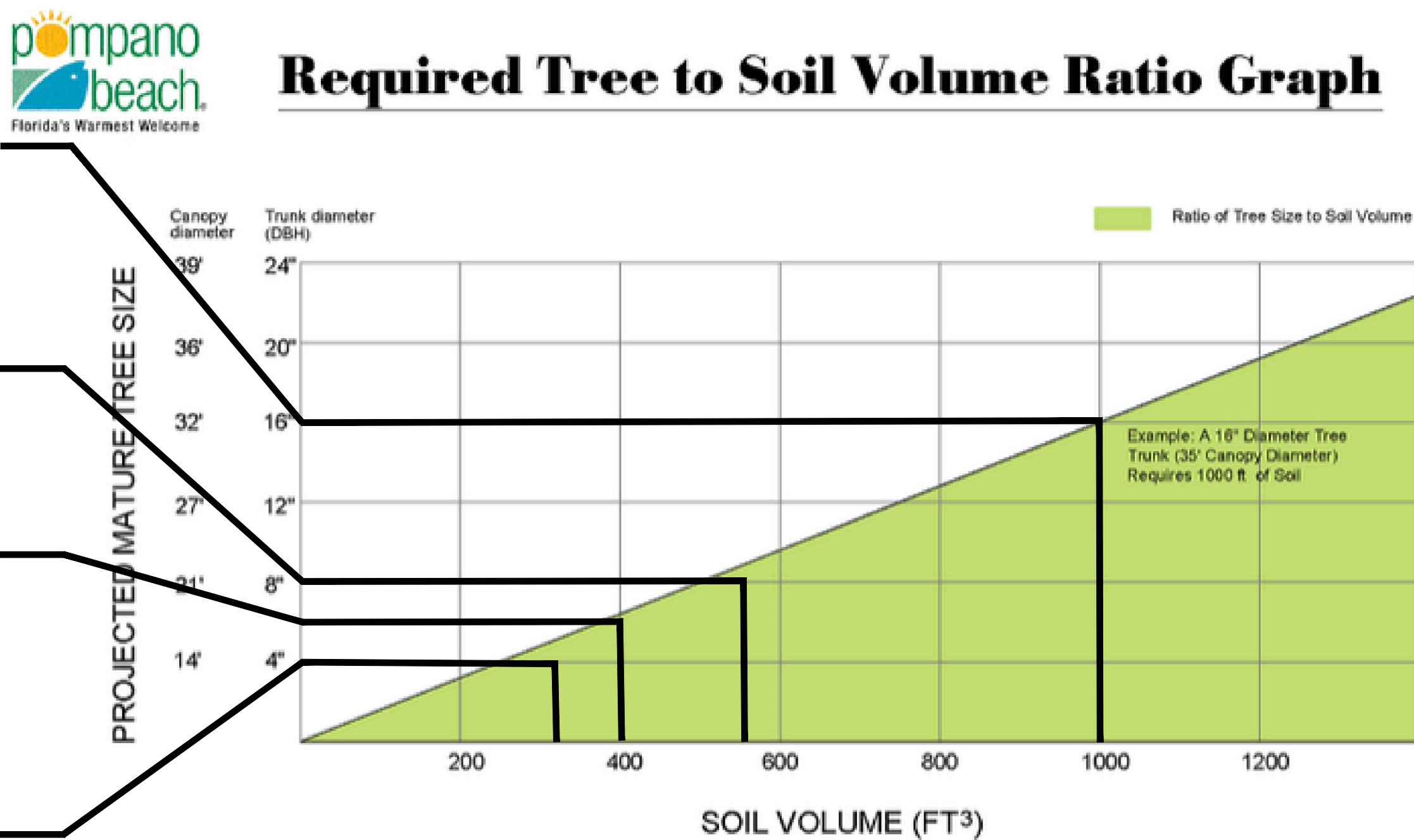
SMALL TREES/LARGE PALMS (400 C.F. SOIL VOLUME)

- Montgomery Palm (Double)
- Ribbon Fan Palm
- Sabal Palm
- Silver Buttonwood
- Simpson Stopper

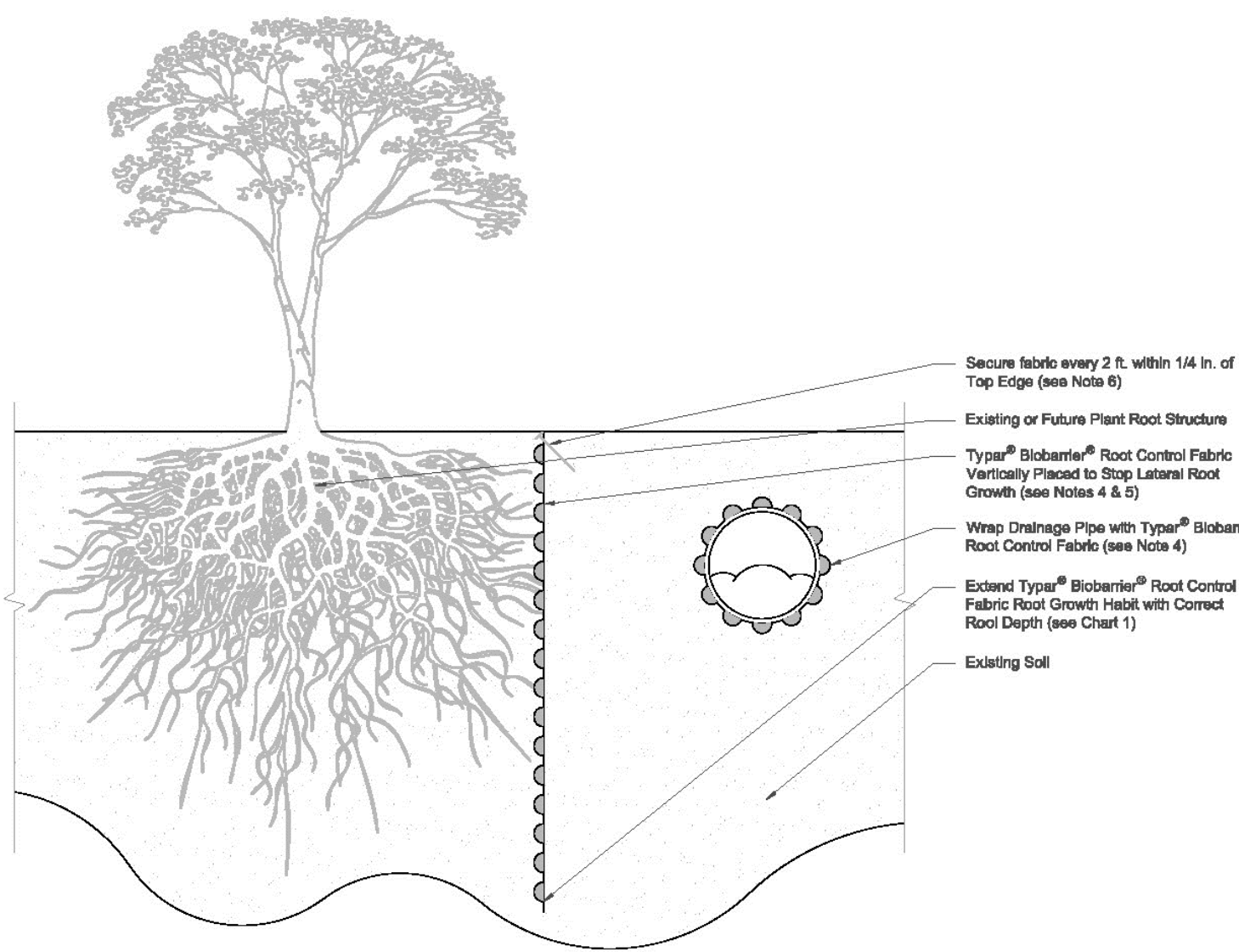
SMALL PALMS (300 C.F. SOIL VOLUME)

- Florida Thatch Palm

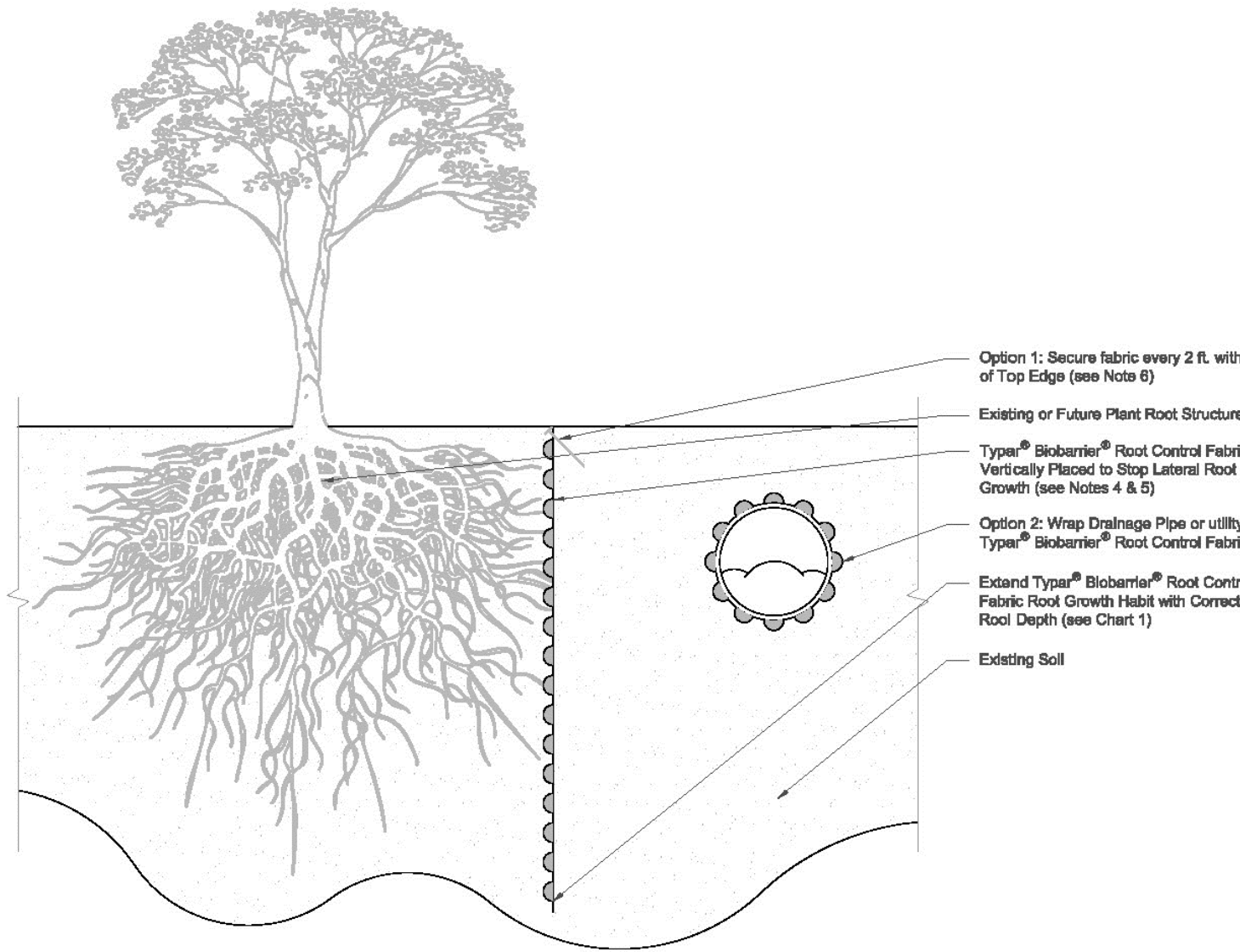
Required Tree to Soil Volume Ratio Graph



Soil volumes depicted in this chart are based on the amount of roots loam soil can support with optimum compaction for root growth.



1 Blobarrier® : Drain Line Application
Scale : N.T.S.



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NOTES

Note 1: Contact your utility company prior to trenching. Consult a professional engineer if frost heaving is required.
 Note 2: Install a Cover/Biosphere® as soon as possible (within 12 hours) after opening. High temperatures and direct sunlight can reduce the effectiveness of the product life.
 Note 3: Dig trenches a minimum of 4 ft. wide for 1" Type I Biosphere® Root Control Fabric. Trenches must be a minimum length of measure (see canopy layout) 1/2". Seal in the root barrier and adjacent to product barrier.
 Note 4: 1" Type I Root Control Fabric Root Control Fabric is not to be used in conjunction with the water source.
 Note 5: Install 2" Type II Biosphere® Root Control Fabric with Nodules facing toward root source.
 Note 6: Paving pipe should penetrate fabric between the nodules 14" in, from top edge of fabric and at 45° angle to the trench wall.

Specific advice on the use of Biosphere® can be obtained from Polymer Group Inc.

Table 1 : Biobarrier® Specifications

[illegible]

Chart 1: Examples of Intended BioBarrier® Root Control Applications & Roll Widths

[illegible]

Chart 1 is a general guide only. Specific applications may require slightly different loads. As a general rule, the greater the lateral wind, the greater the degree of protection offered by coastal netting. But, this may only occur *near* the protection does not extend beyond the edge of the fabric. Do not attempt to use adequate length and width to ensure proper protection.

This field guide is provided as an aid to selecting *net* control in commonly encountered site conditions. Polymer Group Inc. accepts responsibility for any loss or damage resulting from the use of this guide.

Please note that the information above is given as a guide only. All sizes and weights are nominal figures and may vary to what is published. Polymer Group Inc. cannot be liable for damage caused by incorrect installation of this product. Total dissemination of the authority of any information or material for use contemplated and the member of its use is the sole responsibility of the user and not of Polymer Group Inc.

Biobarrier® Root Control Fabric
For Drain Line Applications
Specification, Design & Installation Guide

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Biobarrier® Root Control Fabric
For Utility & Pipe Applications
Specification, Design & Installation Guide

PZB
GSLA
Verified
KG
Approved

PZ24-1200002
KG
11/19/2025
Project
24-838

LANDSCAPE ARCH

as shown
Date
10-09-2024

Dwg. no.
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