

**SPECIFICATIONS FOR TREE PLANTING**  
(Development & Environmental Engineering, Dec. 2015)

**SPECIES AND STANDARDS OF TREES**

Final tree species choice is to be approved by Development Engineering Urban Forestry. Species and cultivars of trees, as well as the standard for that species and cultivar are to comply with the Canadian Standards for Nursery Stock, Canadian Nursery Landscape Association, as revised.

**ORIGIN**

Information concerning the geographical origin of seed or cuttings used to produce the trees used in this contract shall be made available to Development Engineering Urban Forestry on demand. If the plant material is of an origin unsuitable climatically to the Oakville area in the opinion of Dev. Eng. Urban Forestry, it will be refused.

**Nursery planting stock must be located in either Halton, Peel, York Region or Hamilton Wentworth County.**

**FORM AND VIGOUR OF TREES**

All trees shall be true to type, structurally sound with no evidence of dead branches, sunscald, frost cracks, abraded or broken bark and be free of insect or disease infestation. All trees shall have full, well developed crowns with one distinctive vertical leader, and root system typical of the species. All parts shall be moist and show active green cambium when cut. All trees must meet these specifications at the time of planting. The project Arborist or Landscape Architect is to confirm compliance with the standards.

Development & Environmental Engineering is to inspect all proposed trees for planting at the nursery prior to delivery to the site. This inspection should be carried done jointly with the project Landscape Architect.

**CONFORMITY TO SPECIES AND VARIETY**

All trees shall conform to species and/or variety named in the species list. No substitutions will be accepted unless approved by Development Engineering Urban Forestry.

**SIZE OF TREES**

Unless otherwise stated by Development Engineering Urban Forestry all deciduous trees planted shall be 300 cm - 350 cm (9'8 and 11'5) in overall height, and at least 60 mm in caliper. All 300 cm trees must have a minimum of 185 cm of clear stem, measured from the ground, unless approved by Development Engineering Urban Forestry.

**SHIPPING OF TREES**

Trees must be transported to the planting site in a manner that will minimize damage to crowns, boles or roots. Balled and burlapped (B/B) trees must have no cracks in the ball to be accepted. Trees, whether balled or burlapped, must have their root systems in a moist state at all times.

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**TEMPORARY STORAGE**

If conditions preclude immediate use of tree stock, balled and burlapped trees shall be stored in a sheltered spot protected from sun and wind. The root balls shall be kept in a moist state at all times by watering as required.

**PLANTING and TREE SPECIES LOCATIONS**

**Residential Street Trees**

All street tree planting locations must conform to the approved Street Tree Planting Plan and any deviation to the plan must be approved by Development Engineering Urban Forestry.

**Commercial Street Trees**

Street tree planting locations shall be installed as per either the approved Landscaping Plan or Street Tree Planting Plan that forms part of the development project and any change from the plan must be approved by Development Engineering Urban Forestry.

**Tree Species Mix Configuration**

**Tree groupings are not to exceed 3 of any one species type in a row on one side of the road, and no more than 4 trees in total for groupings that are divided with the opposite side of the road.**

**BACKFILLING**

Backfilling\* is to be placed in layers approximately 15 cm in depth and firmly tamped in place in such a manner that the tree retains its vertical position without support. Particular care is to be taken to ensure that no air pockets remain under or around roots and that damage does not occur to the root system. The fill shall be thoroughly watered immediately after planting. Backfilled soil is to be placed to bring the top level of the root ball 7.6 cm higher than the existing surrounding grade to allow for settling.

At grade, a ridge of soil located at the edge of the planting hole shall be formed to a height of 9 cm, to act as a catch basin for any subsequent watering's and to retain mulch.

Balled and burlapped trees shall have the burlap cut and removed to approximately one-half the root ball height to prevent the burlap from acting as a wick thereby drying out the ball. All ropes used to contain the root ball shall be cut unless made of 100% natural fabric that will decay. For root balls encased in wire baskets the entire wire basket must be cut and removed prior to the backfilling phase.

**PRUNING**

The crown of the tree shall be pruned from the bottom up at the time of planting to remove all dead and damaged branches. **The terminal or leader is not to be pruned unless broken.** All cuts shall be made using approved standards and Guidelines for pruning set out by the ANSI A300 pruning standards (2001 Edition), and the Illustrated Guide to Pruning, 2<sup>nd</sup> Edition (2002 ISA),

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leaving no stubs. On all cuts over 2 cm in diameter and bruises or scars on the bark, the injured cambium shall be traced back to living tissue and removed. Wounds shall be smoothed and shaped so as not to retain water. Large wounds produced by any means other than branch pruning may render the tree unacceptable, requiring replacement subject to the directions of Development Engineering Urban Forestry.

**STAKING**

All balled and burlapped trees shall, immediately after planting, be supported by two wooden stakes driven outside the ball in line with the direction of the prevailing wind (west-east).

For this type of tree, B/B, the stakes are to be driven at least 70 cm below grade line. The stakes must be driven deep enough that there is at least 5 cm between the top of the stakes and the first branch. Stake placement shall be such that no main roots are severed by the stake being driven into the ground. Metal stakes are prohibited.

**MULCHING**

The following specification will be applied: non shredded woodchips measuring between 2.5 cm and 5.0 cm in width and placed to a depth of between 5.0 cm to 7.5 cm spread the following distance from the root collar:

DBH (cm)	average radius from root collar (m)
0 to 10	1.8
11 to 40	2.4

Woodchips are not to be in contact with the tree trunk and must be applied no later than 48 hours after planting.

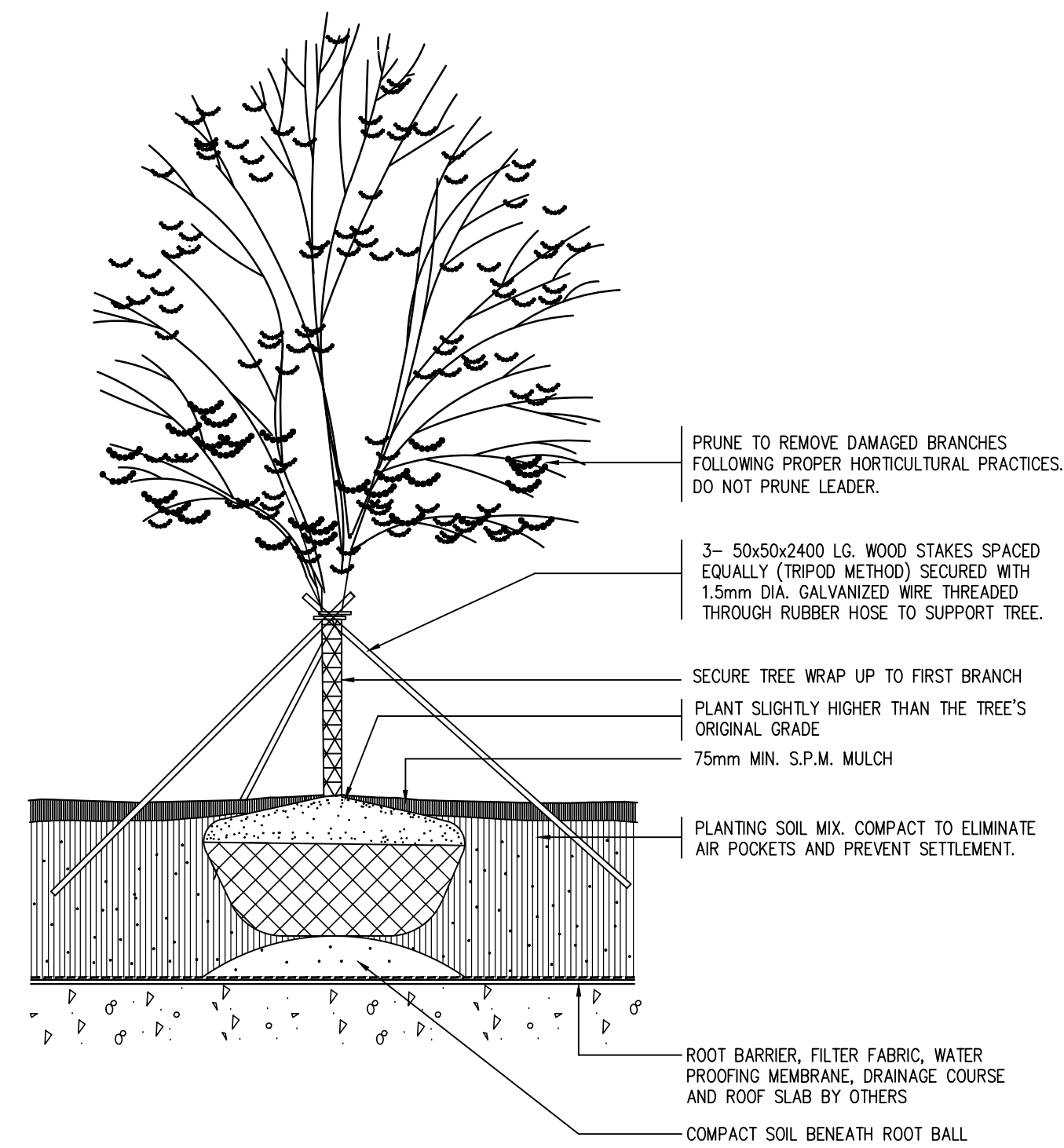
All plantings shall be inspected by the project Arborist or Landscape Architect for compliance. Plantings which do not meet the specifications listed above, or which need straightening or correction as to settling, will not be accepted by the town until such problems are corrected.

**MINIMUM ROOT BALL DIAMETER**

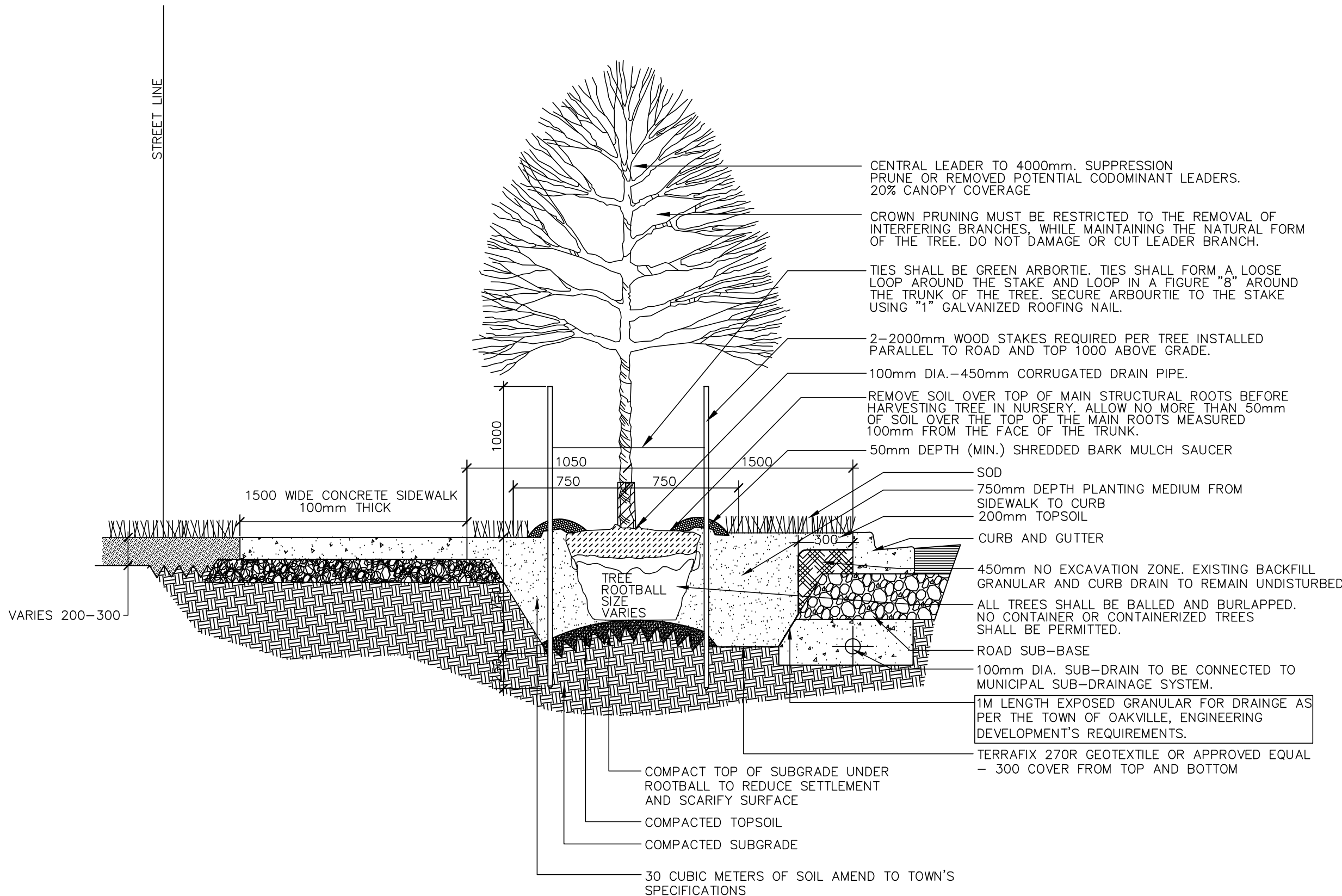
The minimum acceptable root ball diameter for balled and burlapped trees shall be:

70 cm for 60 mm caliper trees
85 cm for 75 mm caliper trees
100 cm for 100 mm caliper trees
65 cm for 150 cm tall conifer stock

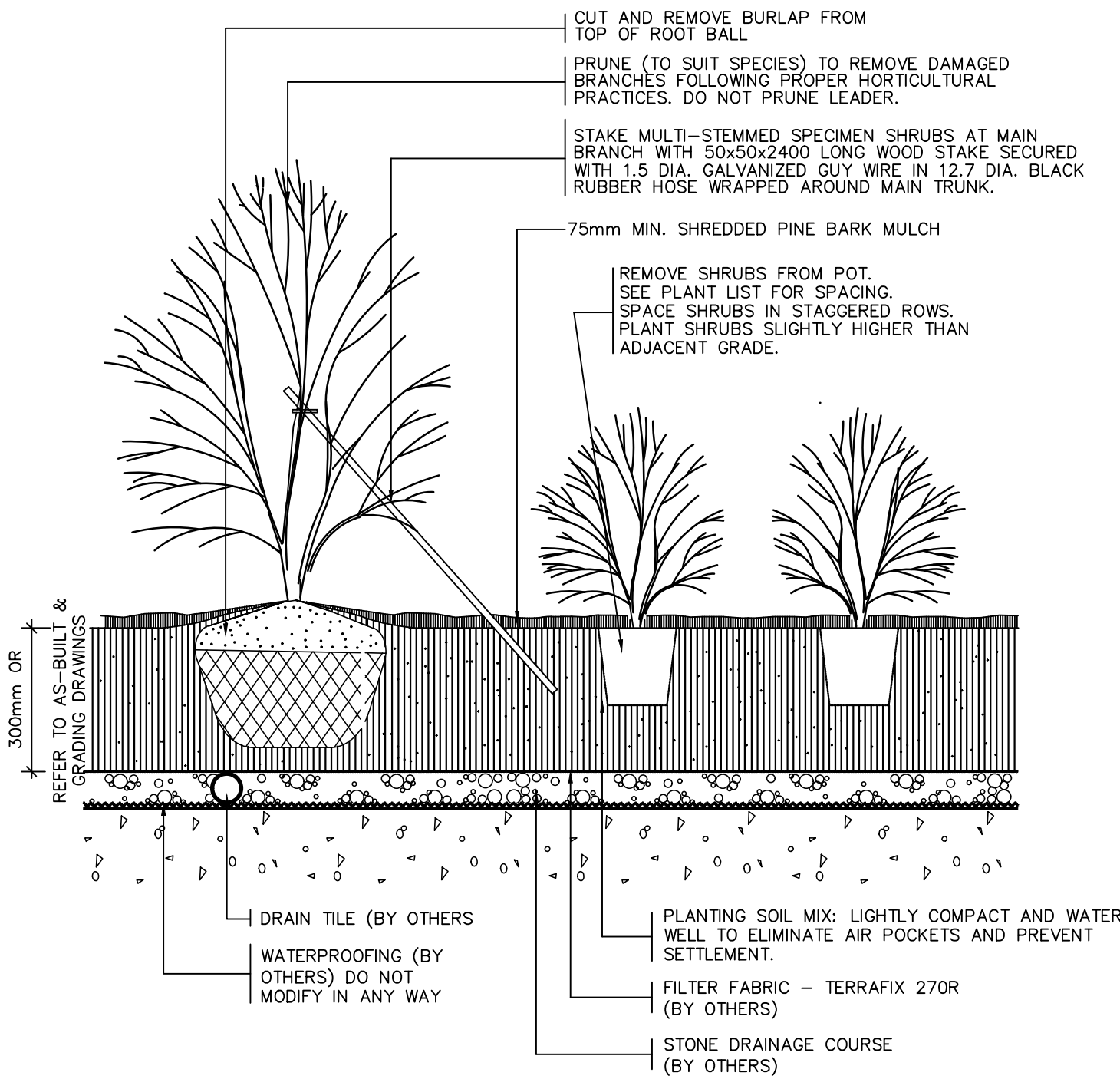
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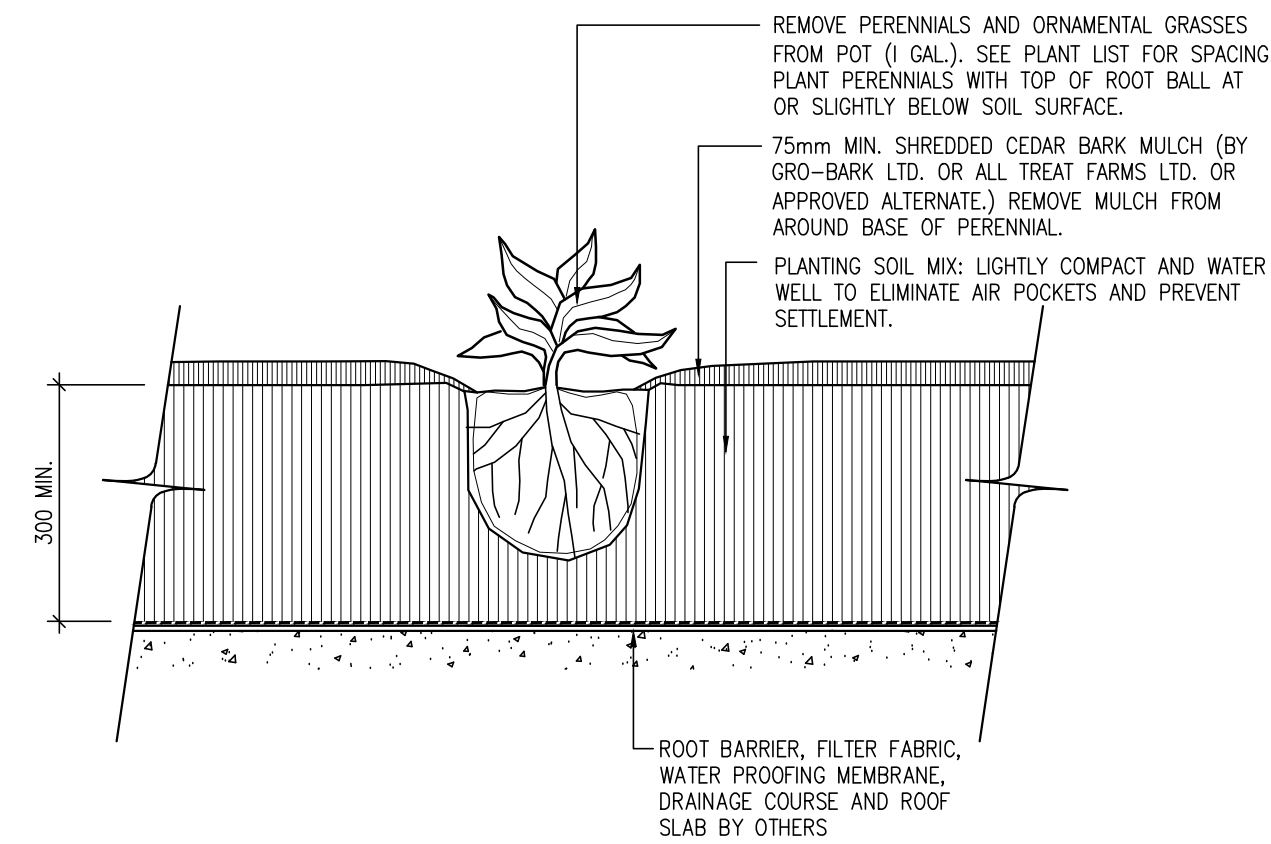
**1 DECIDUOUS TREE PLANTING ON SLAB**  
N.T.S.



**2 DECIDUOUS TREE PLANTING IN BOULEVARD**  
N.T.S.



**3 SHRUB PLANTING ON SLAB**  
N.T.S.



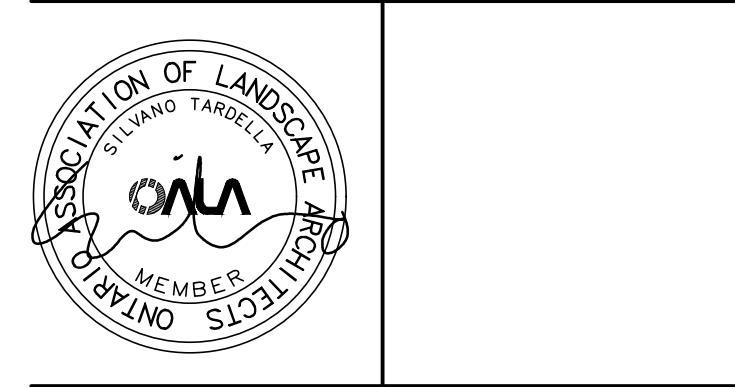
**CONDITION ON SLAB WITH GRANULAR DRAINAGE COURSE**

**NOTES:**

1. PLANTING SOIL MIXTURE (MIX THOROUGHLY) 8-PARTS GOOD QUALITY TOP SOIL, 2-PARTS WELL-ROTTED COW MANURE, 1-PART PEAT MOSS.
2. IF PLANT IS ROOT-BOUND AFTER REMOVING FROM POT, BREAK UP ROOT BALL WITH SHARP KNIFE. ENSURE ROOT BALL IS MOIST BEFORE PLANTING.
3. WEED BARRIER BY TERRAFIX OR APPROVED EQUIVALENT. OVERLAP MAT MIN. 150mm AND CUT AS REQUIRED TO INSTALL PLANTING.

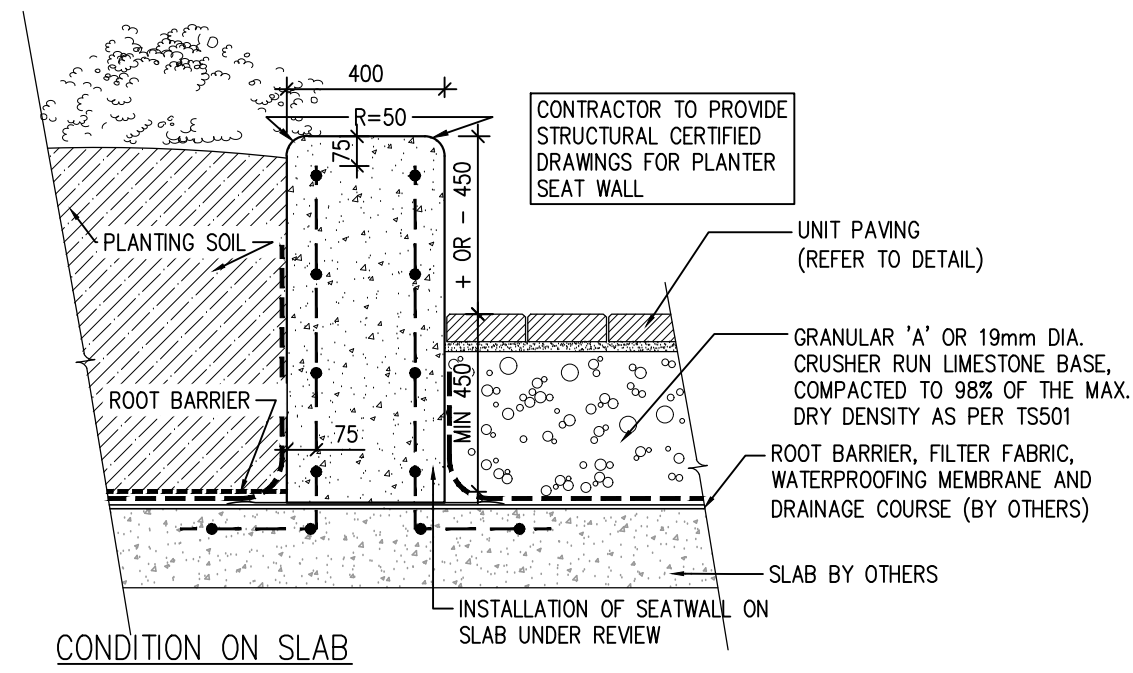
**4 PERENNIAL PLANTING ON SLAB**  
N.T.S.

No.	Description	Date
3	Revised and Reissued for SPA	May 2021
2	Issued for SPA	Oct 2020
1	Issued for Review / Re-Zoning	June 2019



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Project

Title	
DETAILS	
Date	June 2019
Scale	1:300
Drawn	JV
Checked	NH
Job No.	18-113
Sheet	
D1	



1 PLANTER SEAT WALL  
N.T.S.



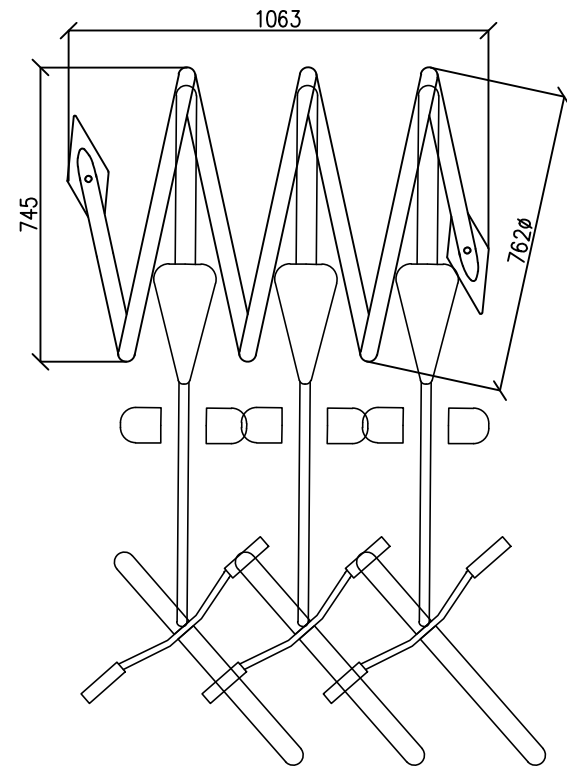
MATERIAL  
HOLLOW STRUCTURAL STEEL TUBING, 1.90" x 0.10" (48mm X 2.24mm) ASTM A500C  
PREPARATION TO BE BY MECHANICAL AND CHEMICAL CLEANING AND IRON PHOSPHATE TREATMENT.  
COLOUR: BLACK

BOA 10 - DIMENSIONS  
HEIGHT: 32.00" (813mm)  
DEPTH: 29.00" (745mm)  
LENGTH: 66.00" (1676mm)

BOA 6 - DIMENSIONS  
HEIGHT: 32.00" (813mm)  
DEPTH: 29.00" (745mm)  
LENGTH: 42.00" (1066mm)

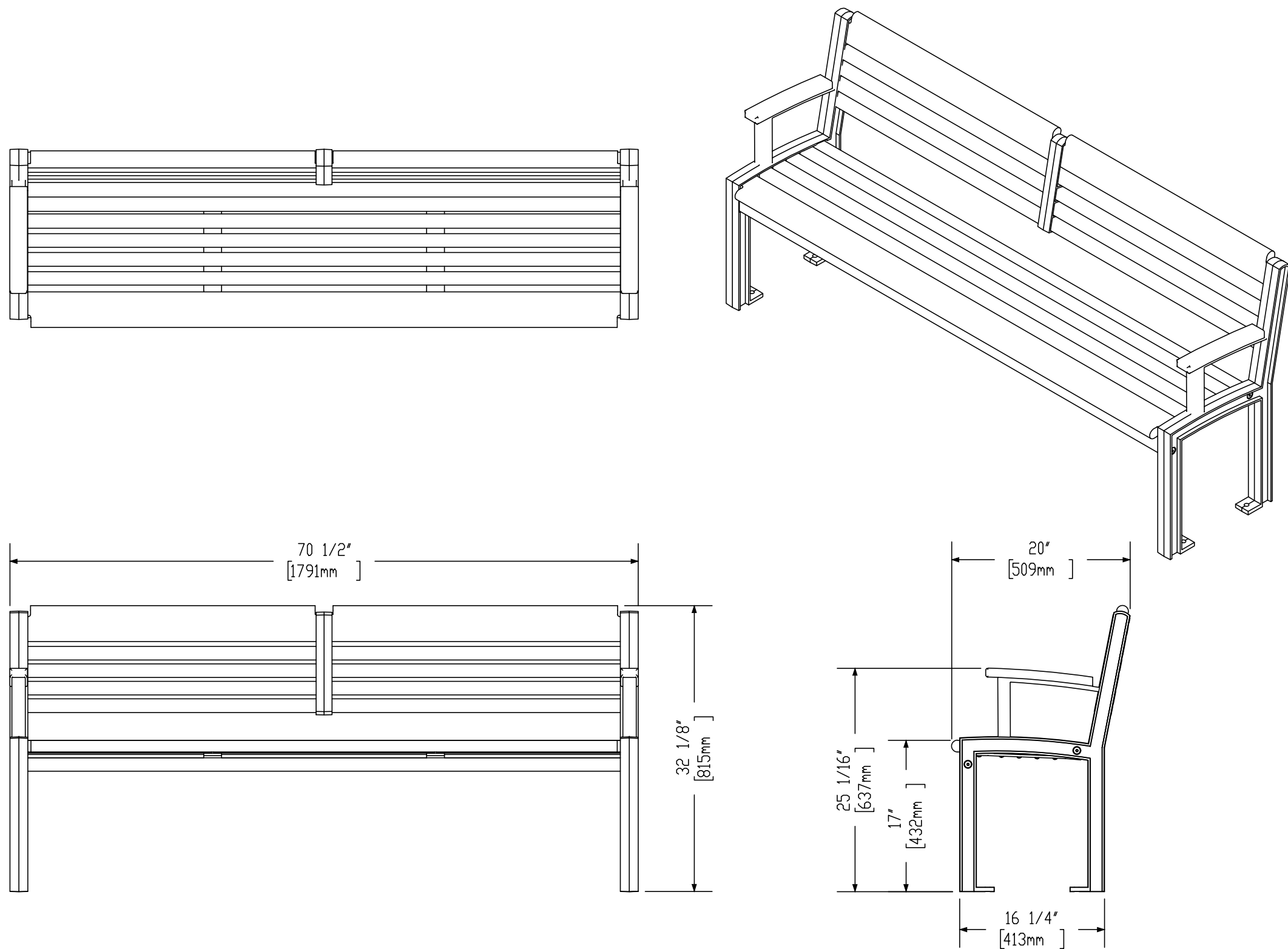
FINISHES  
FINISH TO BE ELECTROSTATIC POLYESTER POWDERCOATING IN TRIPLE THICK MAXICOAT™ WITH OVER CURING.

INSTALLATION  
THE BOA-10 BIKE RACKS ARE TO BE INSTALLED FLUSH, DROP-IN ANCHORS AND BUTTON-HEAD CAPSCREWS 1/2" UNC (12.7mm), 2 PER RACK. ALL FASTENERS TO BE CONCEALED INSIDE RACK TUBES FOR SAFETY AND VANDAL RESISTANCE AND ACCESS HOLES CAPPED TO BE MOUNTED TO AS PER MANUFACTURER SPECIFICATIONS



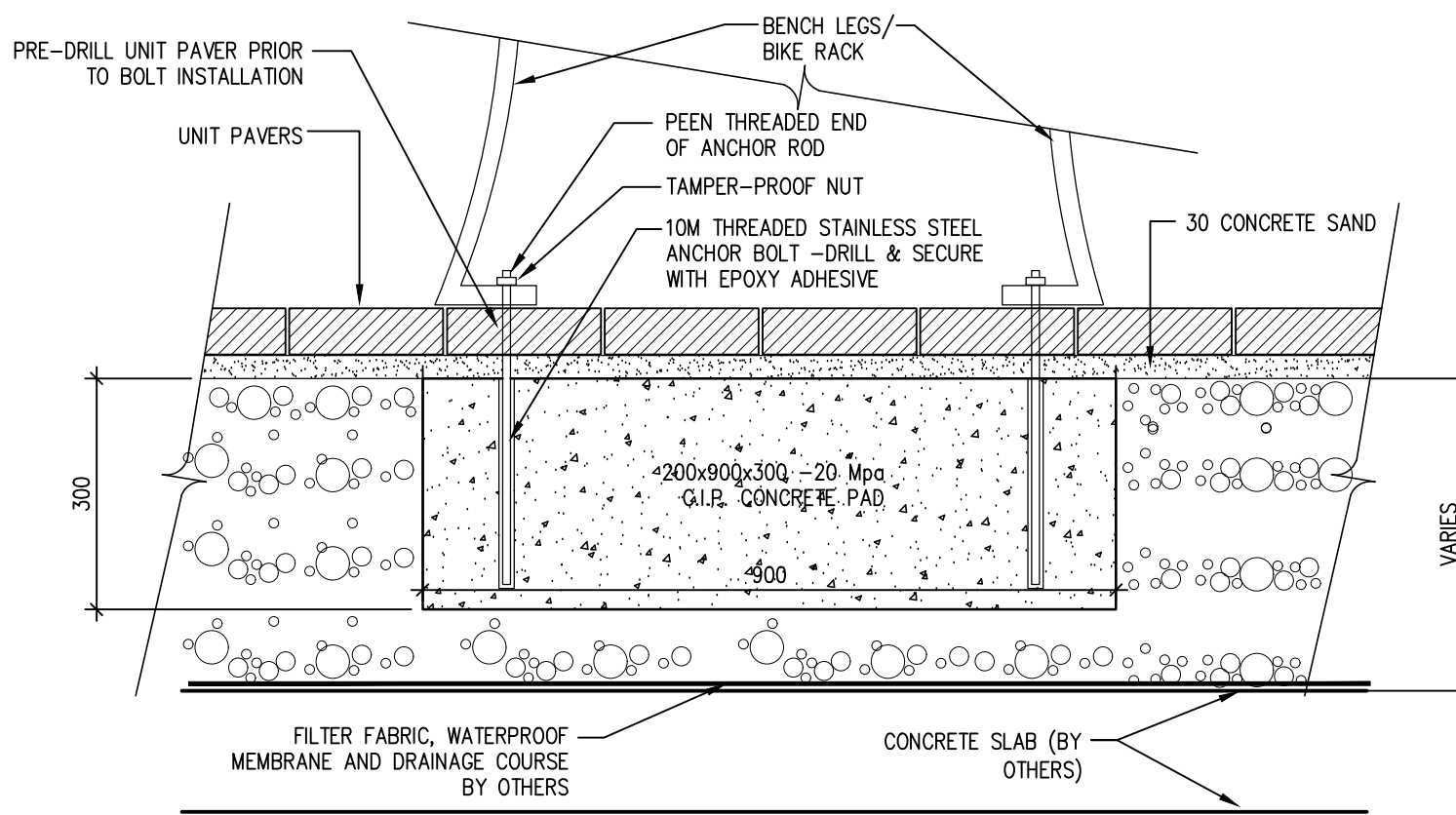
LAYOUT OF BOA-6

2 BIKE RACK  
N.T.S.

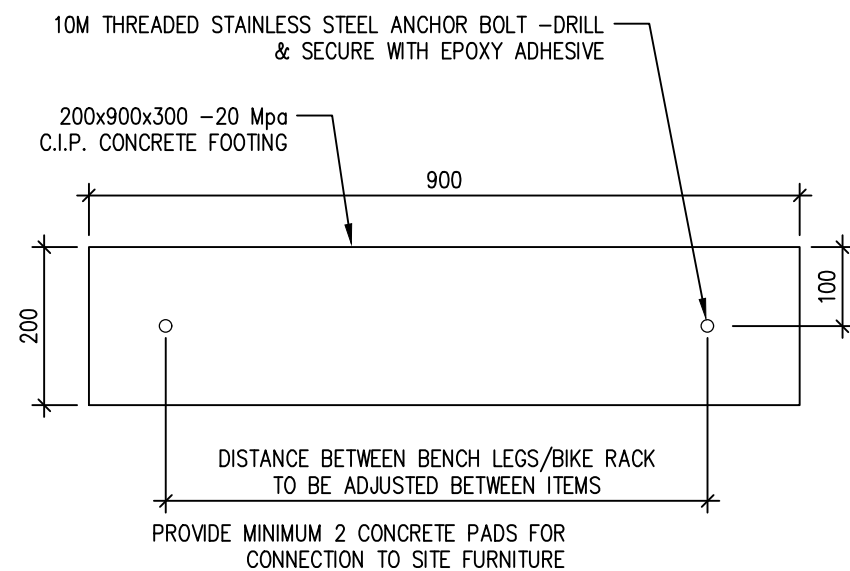


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3 MAGLIN MLB-720-W-A  
N.T.S.



SECTION



PLAN OF FOOTING

4 CONCRETE MOUNT FOR SITE FURNITURE UNDER UNIT PAVING  
N.T.S.

No.	Description	Date
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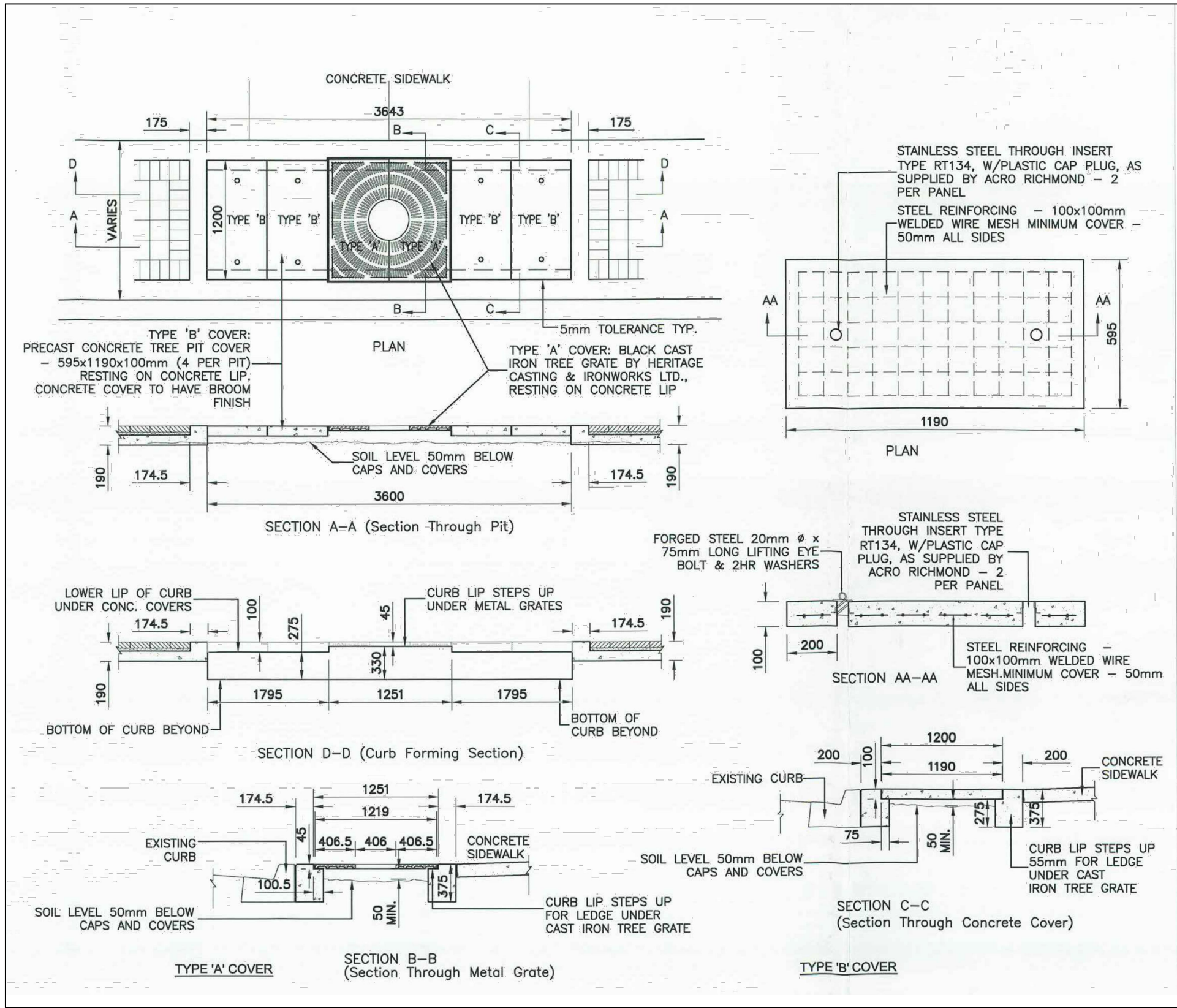


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design strategies

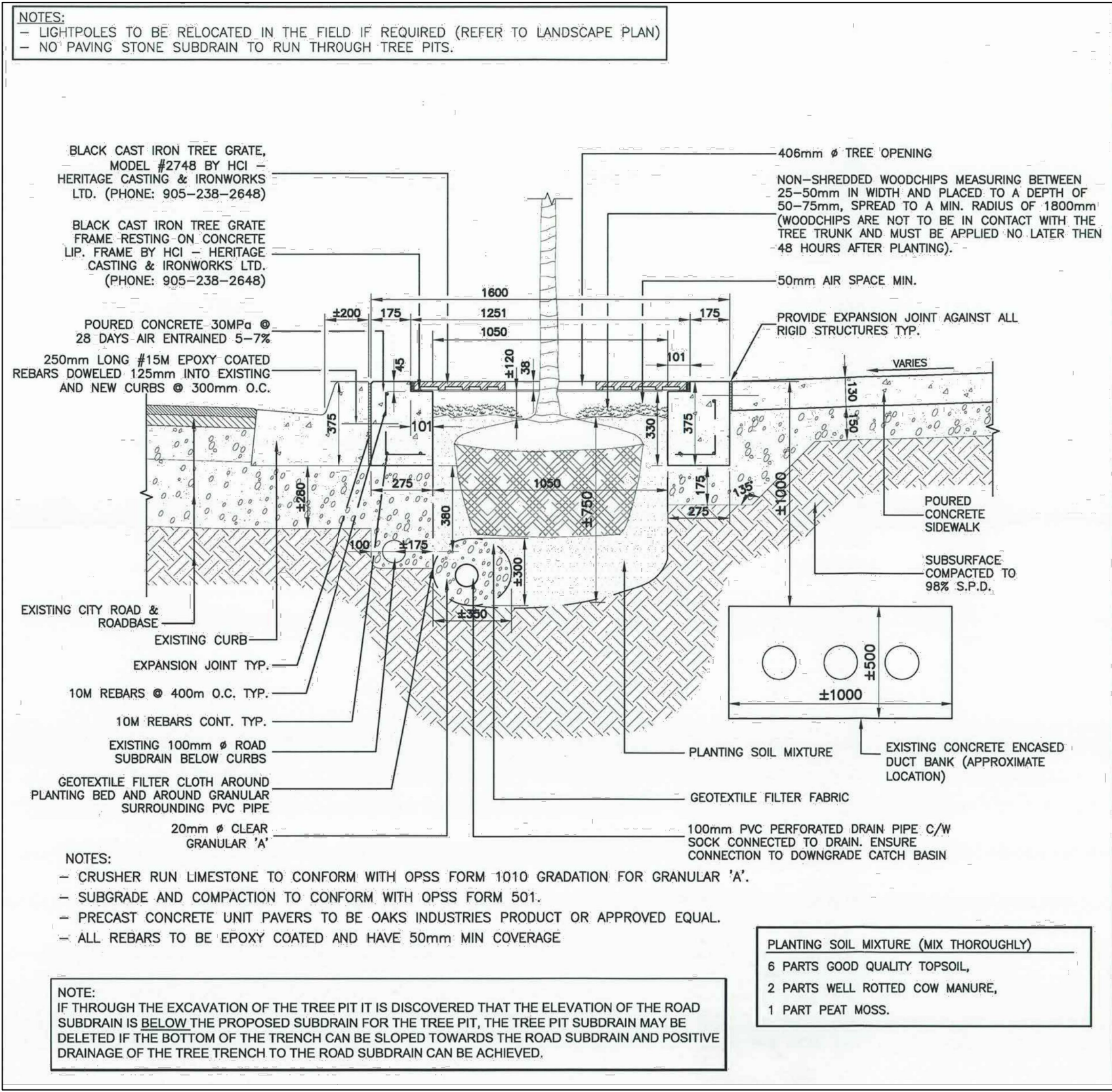
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Project

BALLANTRY HOMES  
BLOCK 15, OAK PARK BLVD.

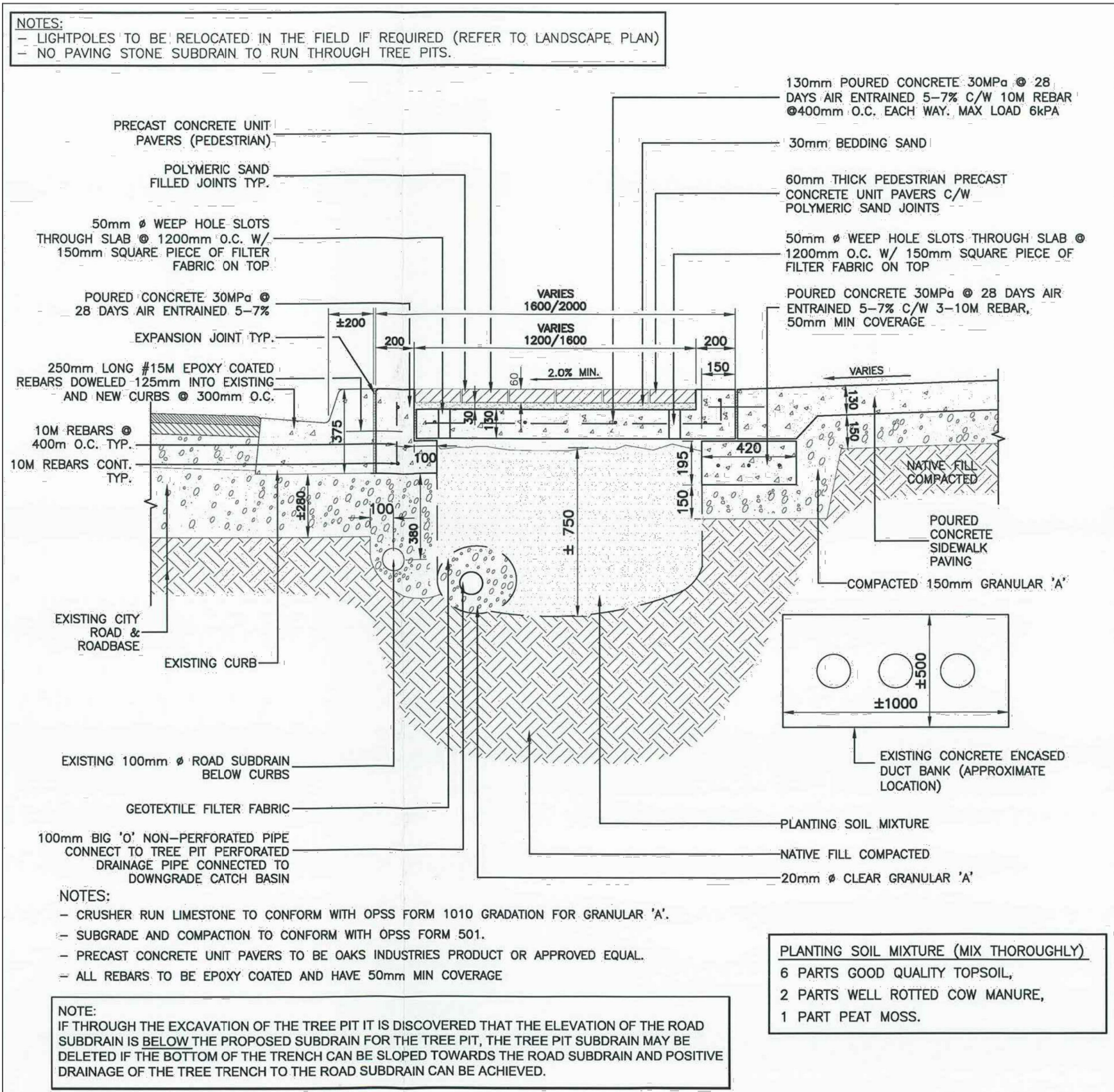
Title		
DETAILS		
Date	June 2019	Sheet
Scale	1:300	D2
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Checked	NH	
Job No.	18-113	



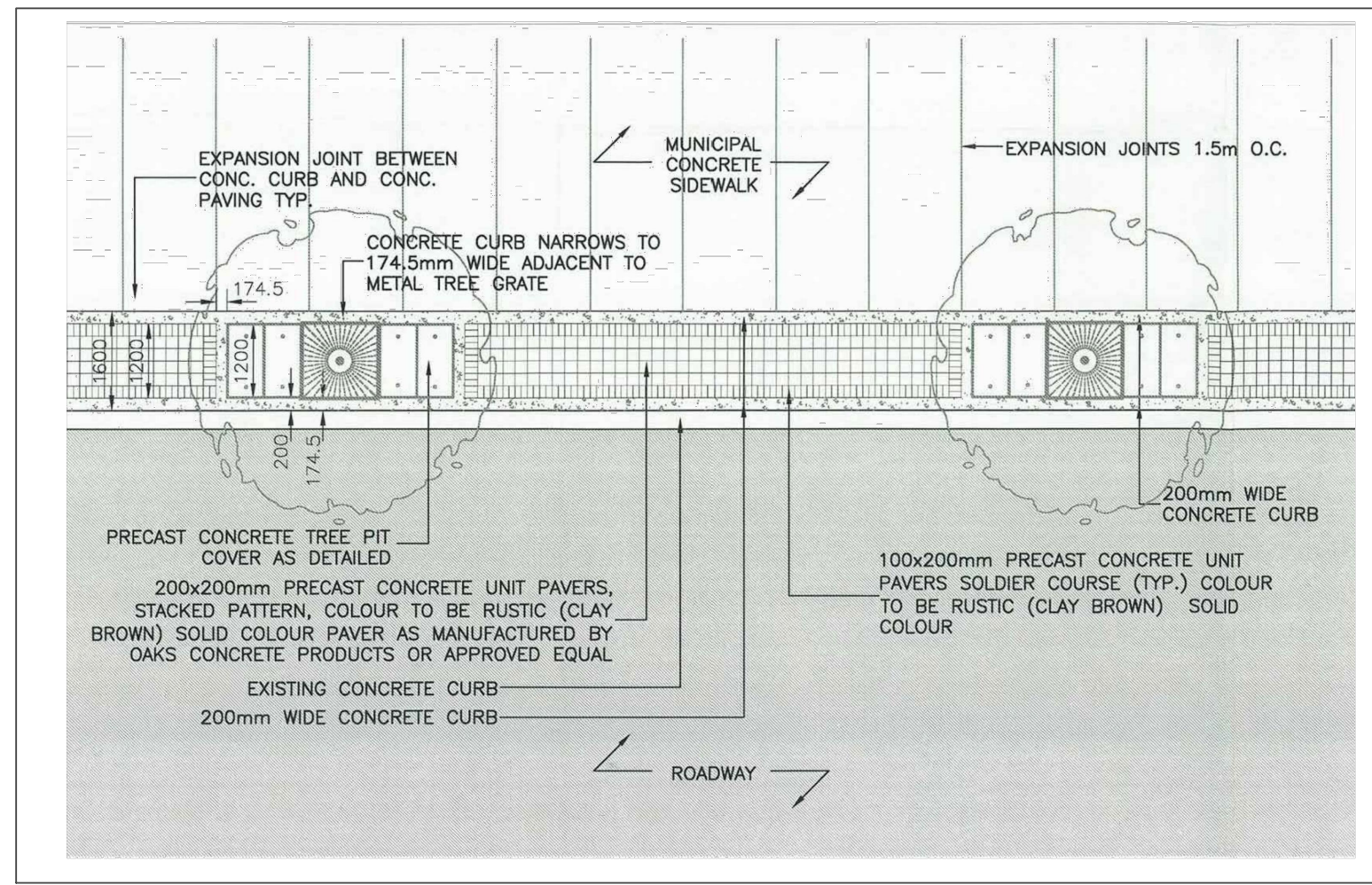
1 CAST IRON TREE GRATE AND PRECAST CONCRETE COVERS  
N.T.S.



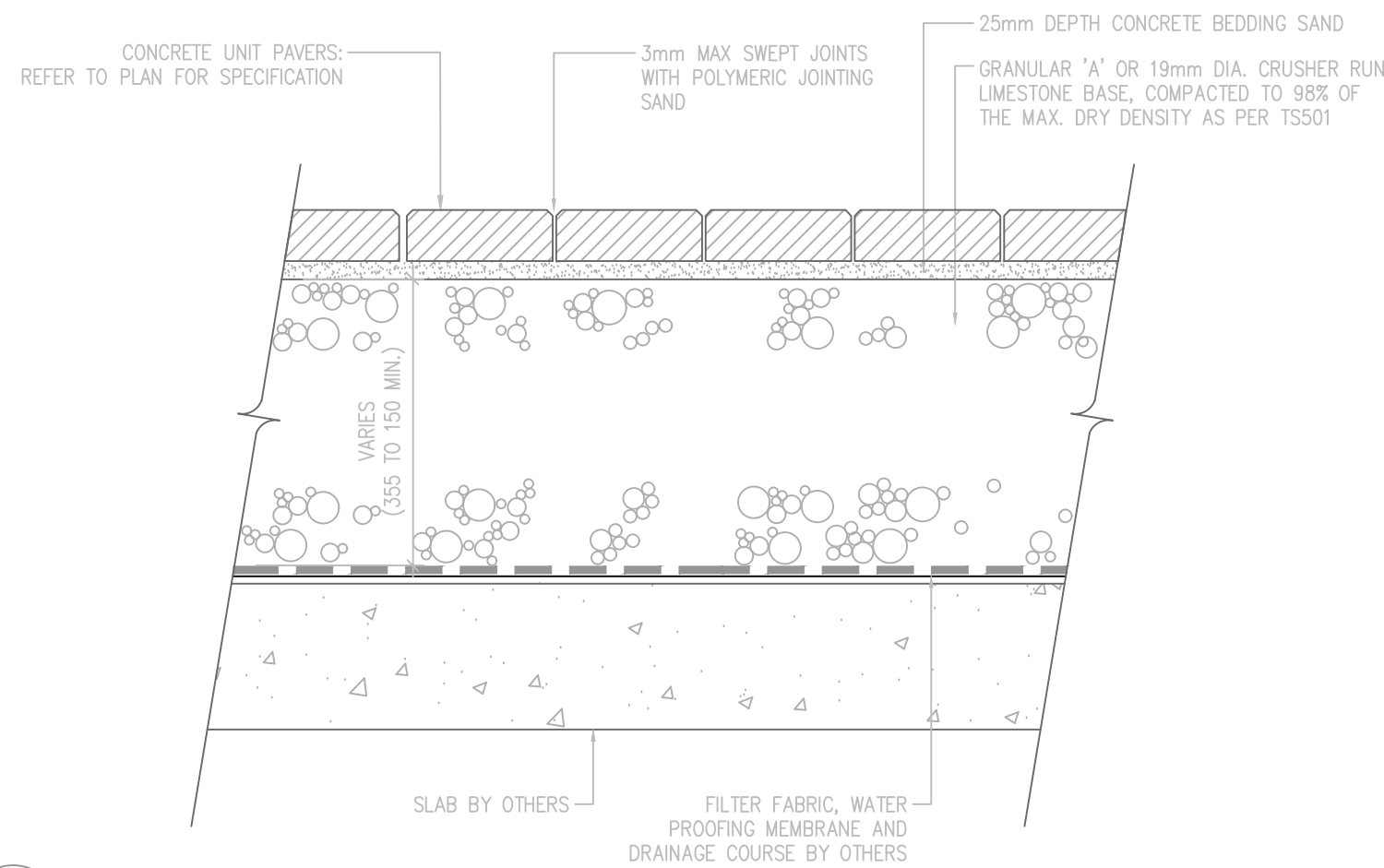
2 TREE PIT C/W CAST IRON GRATE IN 1.6M WIDE TREE CORRIDOR  
N.T.S.



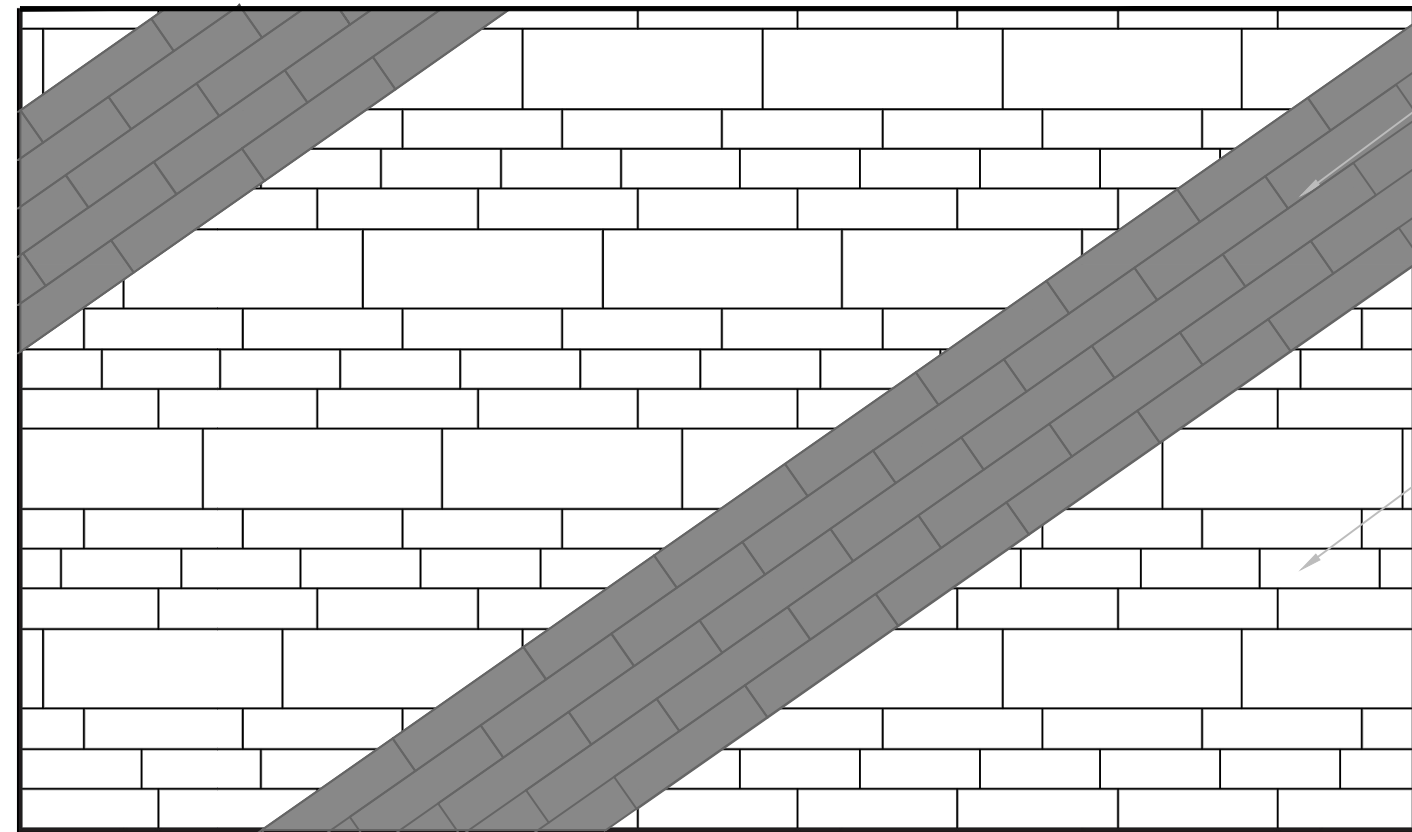
3 CONCRETE UNIT PAVING TYPE A  
N.T.S.



4 BOULEVARD CONCRETE UNIT PAVING TYPE A  
N.T.S.



5 TYPE B&C CONCRETE UNIT PAVERS  
N.T.S.



NOTE:  
PAVING DETAIL IS CONCEPTUAL. ULTIMATE PATTERN TO BE REVIEWED AND APPROVED ON SITE. CONTRACTOR TO PROVIDE SAMPLE FOR REVIEW AND APPROVAL PRIOR TO PROCEEDING WITH THE WORK

6 TYPE B&C CONCRETE UNIT PAVING LAYOUT  
N.T.S.

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Sheet	D3

SECTION B – TYPICAL CONDITION THROUGH BOULEVARD (1:25)

SECTION A – CONDITION AT TREE GRATE (1:25)

SECTION C – CONDITION AT TREE PLANTER (1:25)

1 TYPICAL SOIL CELL DESIGN FOR TREE PLANTING  
N.T.S.

Revision	Description	Date
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**BALLANTRY HOMES**  
BLOCK 15, OAK PARK BLVD.

Title		
DETAILS		
Date	June 2019	Sheet
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Drawn	JV	
Checked	NH	
Job No.	18-113	