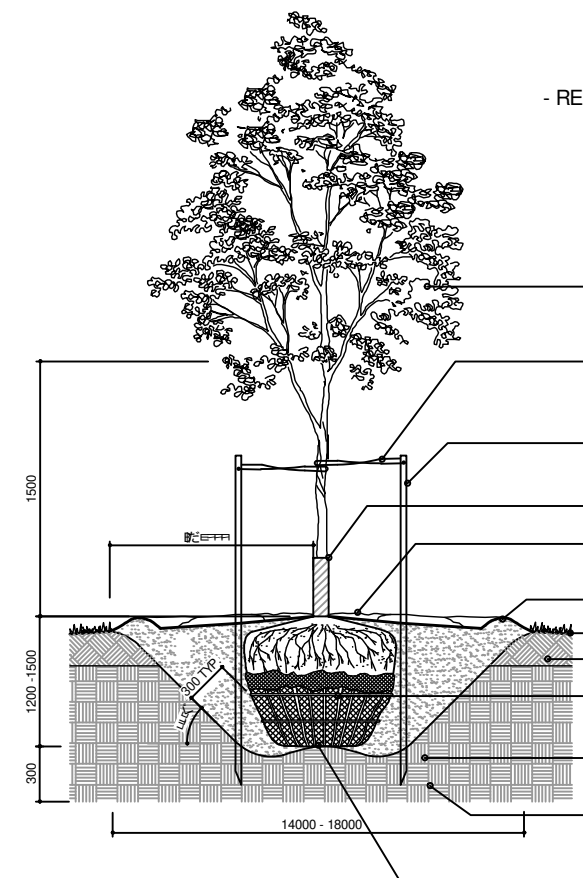
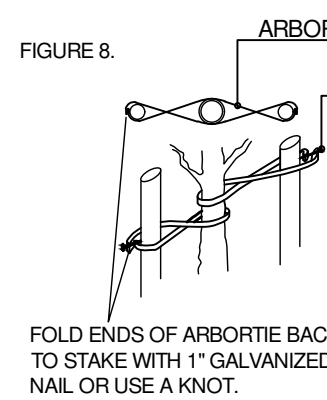


FIGURE 8.

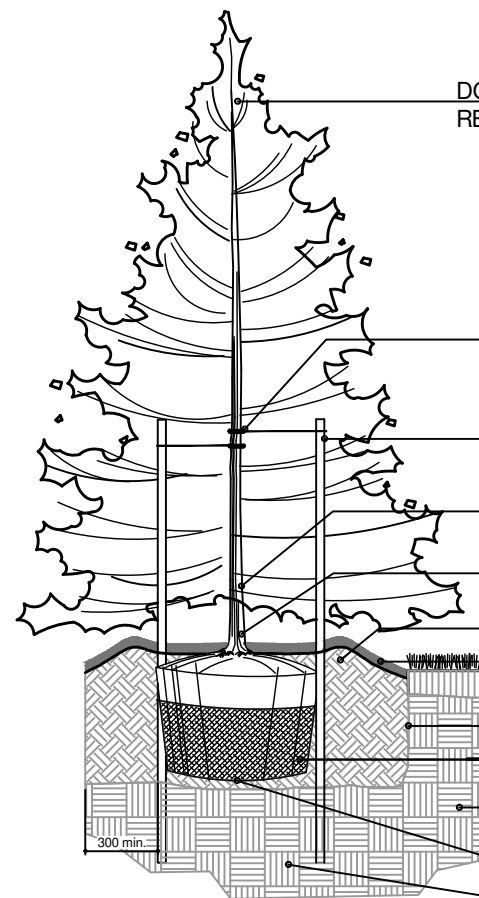


3. OBTAIN WRITTEN CONFIRMATION OF UTILITY LOCATES PRIOR TO COMMENCEMENT OF DIGGING
2. DIG ALL HOLES BY HAND WHEN CLOSER THAN 1.0M TO UNDERGROUND POWER, TELEPHONE AND GAS ALIGNMENTS
1. USE ROOT DEFLECTOR ON THE UTILITY SIDE OF REQUIRED
1. ENSURE BASE OF TREE PIT IS STABLE IN ORDER TO MAINTAIN THE DESIRED TREE LEVEL AND GRADE
1. TREES TO BE SPRAYED WITH APPROVED ANTI-DESSICANT PRIOR TO TRANSPLANTING UNLESS PLANTED WITHIN 48 HOURS OF DIGGING (IF PLANTED IN FULL LEAF)
2. SET TREE 50mm HIGHER THAN SURROUNDING GRADE TO ALLOW FOR SETTLEMENT
3. SCARIFY COMPACTED SUBGRADE TO 150mm DEEP IN AREA 5 X ROOTBALL DIAMETER
1. DIG PIT 300mm WIDER THAN ROOTBALL PERIMETER
1. MULCH WITH SHREDDED BARK OR COMPOSTED HARDWOOD CHIPS
1. TRUNK PROTECTION
1. MECHANICAL INJURY: USE PLASTIC TREE COLLAR
1. ANIMAL INJURY: USE SPIRAL TREE GUARDS OR SCREEN COLLARS
1. SUNSCALD INJURY: PAINT TRUNK WITH WHITE LATEX OR WHITE-WASH, OR WRAP WITH BURLAP. KNIFE WRAP INSTALLED FROM THE GROUND UP TO ABOVE LOWEST BRANCHES
1. LAWN MOWER INJURY: USE SPLIT CORRUGATED BRAIN COLLARS
1. REMOVE TREE STAKES AND TREE WRAP AFTER ONE SEASON

- PRUNE BRANCHES AND RETAIN NATURAL FORM OF TREE AS DIRECTED BY LANDSCAPE ARCHITECT. DO NOT PRUNE LEADER BRANCH
- FLAT WOVEN POLYPROPYLENE MATERIAL 3/4" WIDE, 900lb. BREAK STRENGTH. FASTEN IN FIGURE 8 CONFIGURATION
- SET HEARTWOOD STAKE SET APPROX. 1.2m ABOVE FINISHED GRADE AND POSITION STAKES AND TIES TO PREVENT TREE DAMAGE
- PVC TREE WRAP
- 100mm COMPACTED MULCH ABOVE FINISHED GRADE
- MULCH 150mm AWAY FROM TRUNK
- 100mm HIGH RAISED SAUCER
- FINISHED GRADE
- EXISTING TOP SOIL
- CUT AND REMOVE ALL WIRE, BURLAP, ROPE AND TWINE FROM TOP 1/3 OF ROOT BALL
- PLANTING SOIL MIXTURE AS SPECIFIED. BACKFILL IN 150mm LIFT AND MIXTURE IN LAYERS TO PREVENT AIR POCKETS
- UNDISTURBED SUBSOIL
- SCARIFY 150mm TAMPED SETTING BED AT BOTTOM OF TREE PIT

1 BALLED & BURLAPPED/WIRE BASKET DECIDUOUS TREE

L2.0 N.T.S.



- DO NOT CUT OR DAMAGE LEADER PRUNE ONLY INJURED, INFECTED OR DEAD BRANCHES
- REMOVE ALL NURSERY TAGS, PLASTIC OR METAL.

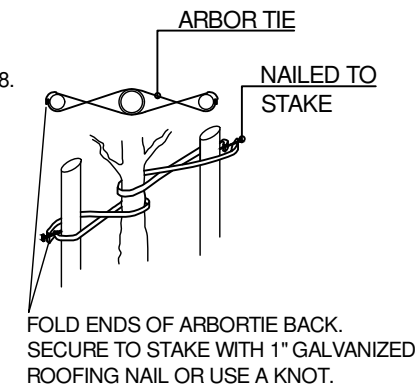
CONTRACTOR SHALL PROVIDE BURLAP WRAP FOR WINTER PROTECTION FOR DURATION OF MAINTENANCE AND WARRANTY PERIOD.

- FLAT WOVEN POLYPROPYLENE MATERIAL 3/4" WIDE, 900lb. BREAK STRENGTH. FASTEN IN FIGURE 8. CONFIGURATION.
- STEEL T-BAR OR 50X50mm STAKE (SEE NOTES FOR STAKING REQUIREMENTS) STAKE TO EXTEND MIN. 300mm INTO UNDISTURBED SOIL
- REMOVE TREE WRAP AT END OF WARRANTY PERIOD OR AS DIRECTED BY CONSULTING LANDSCAPE ARCHITECT
- IF REQUIRED, PLASTIC TREE GUARD TO BE PLACED FROM LOWEST BRANCH TO SOIL SURFACE
- 100mm HIGH SAUCER
- 100mm DEPTH SHREDDED CEDAR BARK MULCH BY GRO-BARK LTD. ALL TREAT FARMS OR APPROVED EQUIVALENT
- PROVIDE CLEAN AND CONTINUOUS SPADE CUT ALONG ALL BED EDGES
- REMOVE WIRE BASKET, BURLAP, AND ROPE FROM TOP 1/3 OF ROOT BALL
- EXCAVATE TO 1.5X ROOT BALL DEPTH AND BACK-FILL PREPARED SOIL MIX (SEE NOTE) COMPACT TOPSOIL TO ELIMINATE AIR POCKETS AND SETTLEMENT
- SCARIFY PIT BOTTOM TO 150mm DEPTH
- UNDISTURBED SOIL

NOTES:

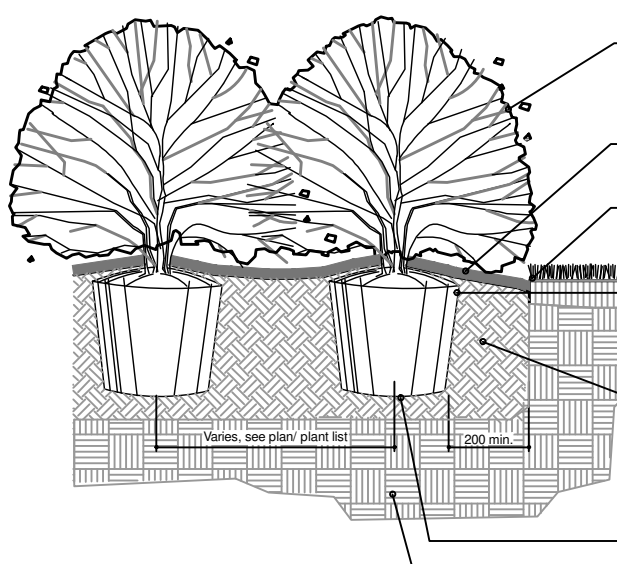
1. SOIL MIXTURE: FOUR (4) PARTS NATIVE SOIL, ONE (1) PART WELL ROTTED COMPOST.
2. SAUCER SHALL BE SOAKED WITH WATER AND MULCHED IMMEDIATELY FOLLOWING PLANTING.
3. ALL DIMENSIONS ARE IN mm.
4. STAKING SCHEDULE:
 - < 2500mm HT. - ONE STAKE
 - > 2500mm HT. - TWO STAKESSPACED TREES - THREE STAKES OR GUY WIRES
5. ALL SUPPORT SYSTEMS MUST BE REMOVED ONCE TREE IS ESTABLISHED.
6. ALL TREES TO BE STRAIGHT AND PLANTED VERTICALLY REGARDLESS OF SLOPE.
7. TOP OF ROOT FLARE SHALL BE POSITIONED 50mm ABOVE GRADE.

FIGURE 8.



2 BALLED & BURLAPPED/WIRE BASKET CONIFEROUS TREE

L2.0 N.T.S.



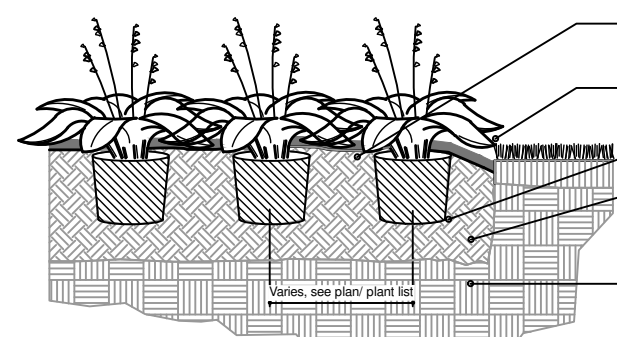
- PRUNE ONLY INJURED OR INFECTED BRANCHES. REMOVE ALL NURSERY TAGS.
- 100mm DEPTH SHREDDED CEDAR BARK MULCH BY GRO-BARK LTD. ALL TREAT FARMS OR APPROVED EQUIVALENT
- PROVIDE CLEAN AND CONTINUOUS SPADE CUT ALONG ALL BED EDGES
- REMOVE PLANTS FROM ALL CONTAINERS. TOP 1/3 OF BURLAP &/OR ROPE TO BE CUT & REMOVED FROM TOP OF ROOT BALL
- EXCAVATE TO 450mm DEPTH AND BACK-FILL WITH PREPARED SOIL MIX (SEE NOTE) COMPACT TOPSOIL TO ELIMINATE AIR POCKETS AND SETTLEMENT
- SCARIFY PIT BOTTOM TO 150mm DEPTH
- UNDISTURBED SOIL

NOTES:

1. SOIL MIXTURE: FOUR (4) PARTS NATIVE SOIL, ONE (1) PART WELL ROTTED COMPOST.
2. SAUCER SHALL BE SOAKED WITH WATER AND MULCHED IMMEDIATELY FOLLOWING PLANTING.
3. ALL DIMENSIONS ARE IN mm.
4. IN POORLY DRAINAGE SOILS PLANT SHRUB SLIGHTLY HIGHER THAN ADJACENT GRADE.
5. ALL PLANTS TO BE STRAIGHT AND PLANTED VERTICALLY REGARDLESS OF SLOPE.

3 BALLED & BURLAPPED/POTTED SHRUB

L2.0 N.T.S.



NOTES:

1. SOIL MIXTURE: FOUR (4) PARTS NATIVE SOIL, ONE (1) PART WELL ROTTED COMPOST.
2. SAUCER SHALL BE SOAKED WITH WATER AND MULCHED IMMEDIATELY FOLLOWING PLANTING.
3. ALL DIMENSIONS ARE IN mm.
4. CUT AND REMOVE CONTAINER. SCARIFY ROOTBALL SIDES.
5. ALL PLANTS TO BE STRAIGHT AND PLANTED VERTICALLY REGARDLESS OF SLOPE.

CONTRACTOR SHALL PROVIDE 75mm MULCH FOR ALL PERENNIALS EXCEPT GROUNDCOVERS UNLESS SPECIFIED OTHERWISE.

4 CONTAINER GROWN PERENNIAL/GRASS

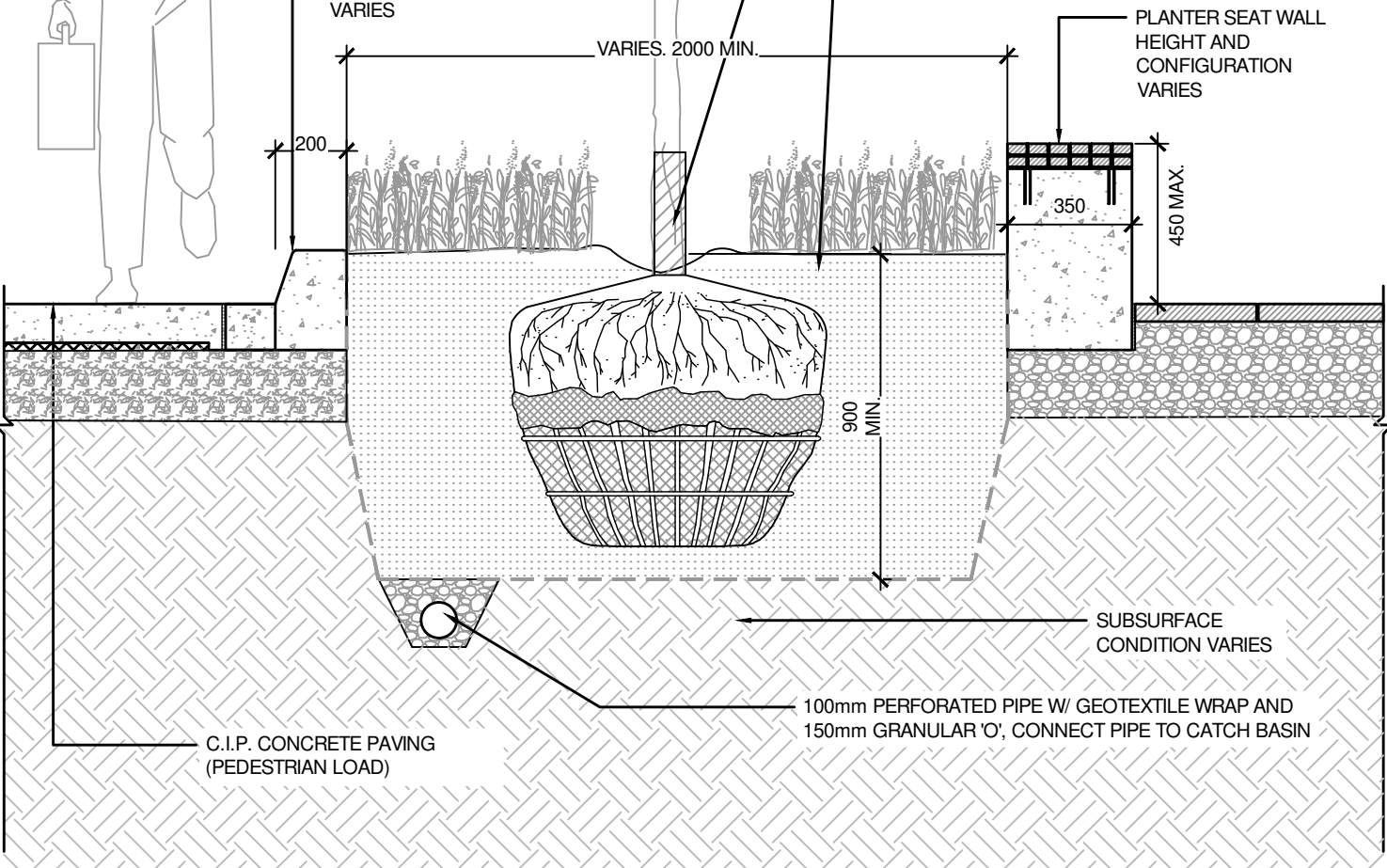
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- DECIDUOUS TREE (BEHIND). REFER TO LANDSCAPE DETAIL DRAWINGS FOR PLANTER DETAILS.
- REFER TO LANDSCAPE DETAILS FOR PLANTING AND PLANTER CONSTRUCTION DETAILS.
- PROVIDE ADEQUATE SOIL VOLUME AS PER APPLICABLE GUIDES/STANDARDS
- EDGE ADJACENT TO SIDEWALK VARIES
- VARIES: 2000 MIN.
- PLANTER SEAT WALL HEIGHT AND CONFIGURATION VARIES
- 350
- 450 MAX.
- 100mm PERFORATED PIPE W/ GEOTEXTILE WRAP AND 150mm GRANULAR 'O'. CONNECT PIPE TO CATCH BASIN
- SUBSURFACE CONDITION VARIES
- C.I.P. CONCRETE PAVING (PEDESTRIAN LOAD)

5 EXAMPLE: TREE PLANTING IN RAISED BED

L2.0 1:20



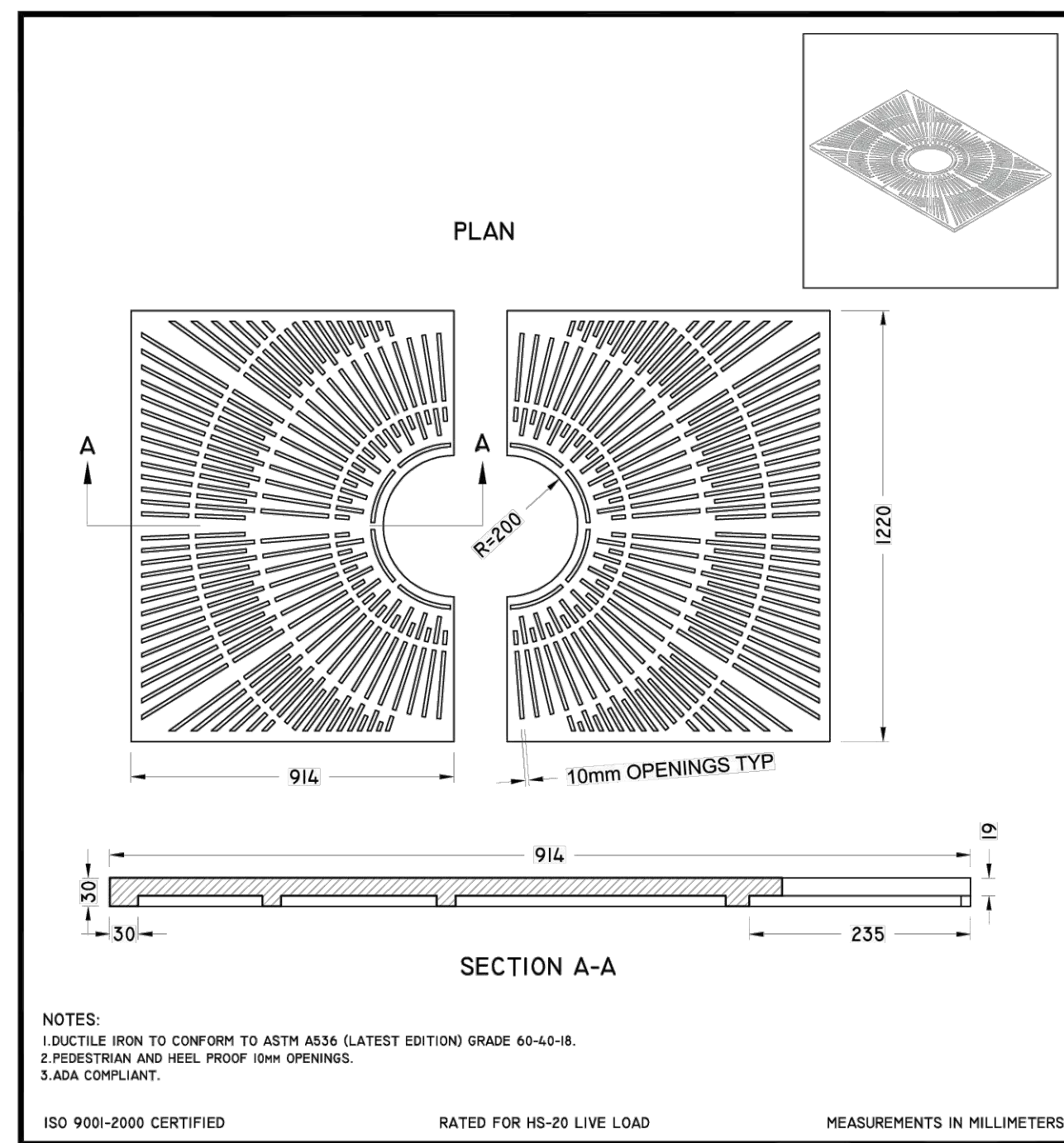
6 EXAMPLE: STREET TREE PLANTING IN SOIL CELLS

L2.0 N.T.S.



TREE GRATE 48X72

TG-48X72



- NOTES:
1. DUCTILE IRON TO CONFORM TO ASTM A536 (LATEST EDITION) GRADE 60-40-18.
 2. PEDESTRIAN AND WHEEL PROOF 10mm OPENINGS.
 3. ADA COMPLIANT.

ISO 9001-2000 CERTIFIED RATED FOR HS-20 LIVE LOAD MEASUREMENTS IN MILLIMETERS

TROJAN INDUSTRIES INC.
CALGARY • EDMONTON, ALBERTA

7 RECTANGULAR TREE GRATE OR APPROVED EQUIVALENT

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KEY PLAN



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ARCADIS

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tel 905 546 1010
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PROJECT

PUBLIC ROAD
REDEVELOPMENT

TUNNEY'S PASTURE OTTAWA, ON

PROJECT NO:
139833

DRAWN BY:
T. KEMP

CHECKED BY:
T. O'BRIEN

PROJECT MGR:
S. ALBANESE

APPROVED BY:
T. O'BRIEN

SHEET TITLE

CONCEPT LANDSCAPE
DETAILS

SHEET NUMBER

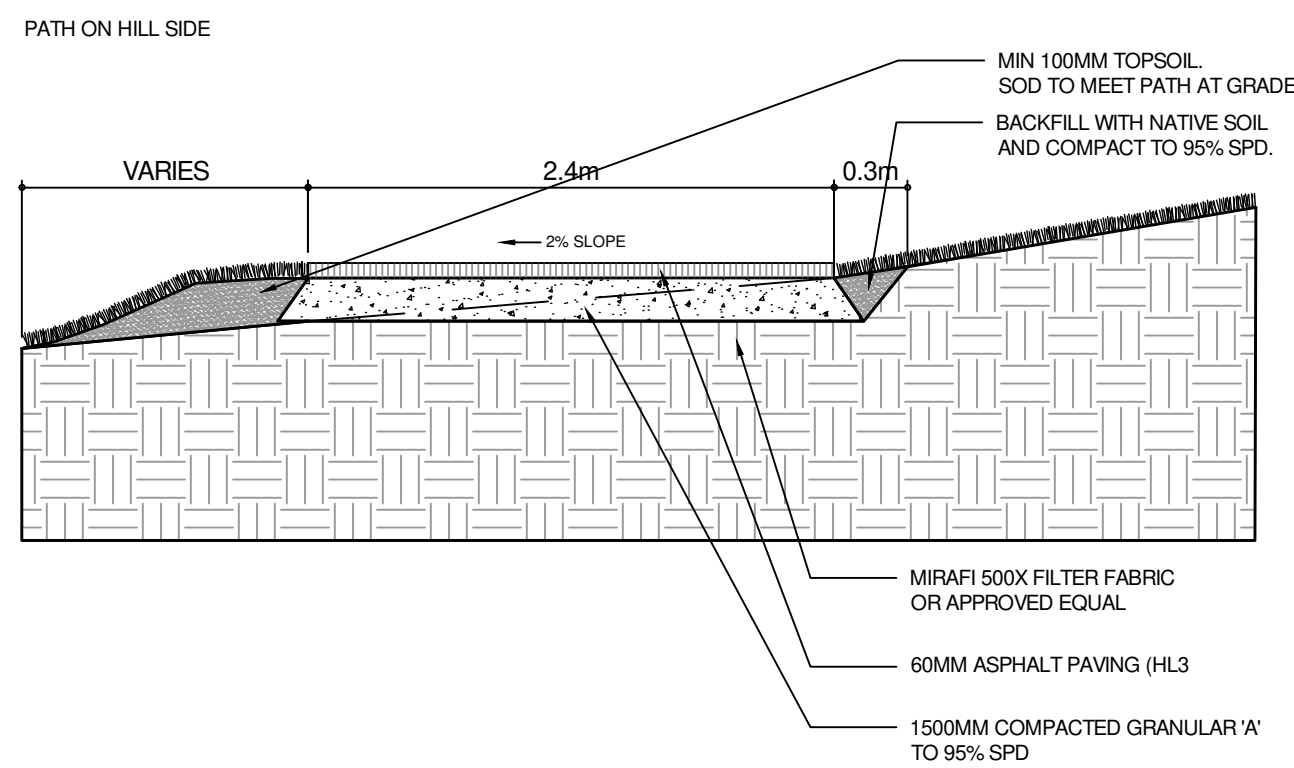
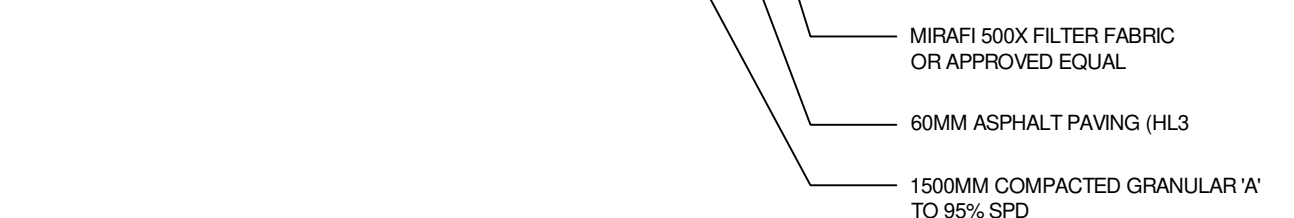
L2.0

ISSUE

3



Diagram illustrating a cross-section of a road construction. The top layer is labeled "MIN 100MM TOPSOIL - SOD TO MEET PATH AT GRADE". The road surface is shown with a "1% SLOPE" indicated by a horizontal line and arrows. The road width is marked as 2.4m, with 0.6m on either side. The road is built on a base of compacted material, shown with a brick-like pattern.



The diagram illustrates a cross-section of a permeable pavement system. At the top, a concrete curb is shown. Below it is a 1-1/2" permeable setting bed aggregate layer, followed by a permeable joint opening aggregate layer, and then a unilock permeable paver layer. The pavers are shown with arrows indicating surface water flow passing through them. Below the pavers is a permeable base aggregate layer, followed by a permeable subbase aggregate layer. A geotextile material is installed below the subbase. A #4 rebar (as needed, continuous, 3" clear (typ.)) is shown in the subbase. Below the geotextile is a subgrade material with a minimum CBR of 5% (compact if less than 5% slope to underdrain). A PVC underdrain pipe is installed at the bottom, with arrows indicating water flow into it. The diagram also shows a concrete curb on the right side.

Labels and Callouts:

- UNILOCK PERMEABLE PAVER
- PERMEABLE JOINT OPENING AGGREGATE
- 1-1/2" PERMEABLE SETTING BED AGGREGATE
- CONCRETE CURB
- TOPSOIL
- PERMEABLE BASE AGGREGATE
- PERMEABLE SUBBASE AGGREGATE
- #4 REBAR(S NEEDED), CONTINUOUS; 3" CLEAR (TYP.)
- SUBGRADE MATERIAL: MIN. CBR = 5% (COMPACT IF LESS THAN 5% SLOPE TO UNDERDRAIN)
- GEOTEXTILE MATERIAL; INSTALL AS DIRECTED BY A PROFESSIONAL ENGINEER
- PVC UNDERDRAIN PIPE; INSTALL AS DIRECTED BY A PROFESSIONAL ENGINEER
- SURFACE WATER FLOW
- VARIES



UNILOCK
DESIGNED TO CONNECT.

2.1	N.T.S.
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Surface Water Flow

Diagram illustrating the layers of a permeable pavement system for water infiltration:

- Unlock Permeable Pavers
- Permeable Joint Opening Aggregate: Open-Graded, Crushed, Angular Stone, ASTM No.8 or 1/8 to 3/16" Granite Chip (2-5mm)
- 1-1/2" Permeable Setting Bed Aggregate: Open-Graded, Crushed, Angular Stone, ASTM No.8
- 6" Min. Permeable Base Aggregate: Open-Graded, Crushed, Angular ASTM No.8
- 18" Min. Permeable Subbase Aggregate: Open-Graded, Crushed, Angular Stone ASTM No.2
- Drivestrig Geogrid or Geotextile
- 3" Infiltration Material Mix: Scarify Subgrade Surface; Spread Sand, Till and Compact
- PVC Underdrain Pipe; Install if Infiltration is Less Than 0.5"/HR; Wrap with Geotextile
- Subgrade Material: Min. CBR - 5% (Compacted if Less than 5%) Slope to Drain

UNILOCK®
PAVERS & WALLS

3.6m

1.2m

0.3m

0.3m

MEDIUM BROOM FINISH & TROWELED CONCRETE EDGE

CONCRETE PAD SURFACE
LEVEL WITH ADJACENT
PATHWAY SURFACE

ADJACENT PATHWAY

Cross-section diagram of a wheelchair accessible ramp. The diagram shows a wheelchair on a ramp with a 1:12 slope. Key dimensions include a 1.2m clear width, a 1.5m ramp length, and a 0.15m vertical rise. The ramp is constructed with concrete pads and an adjacent pathway, both supported by granular material compacted to 95% S.P.D. above the subgrade.

- CONCRETE PAD
- ADJACENT PATHWAY
- GRANULAR 'A' COMPACTED TO 95% S.P.D.
- SUB.GRADE

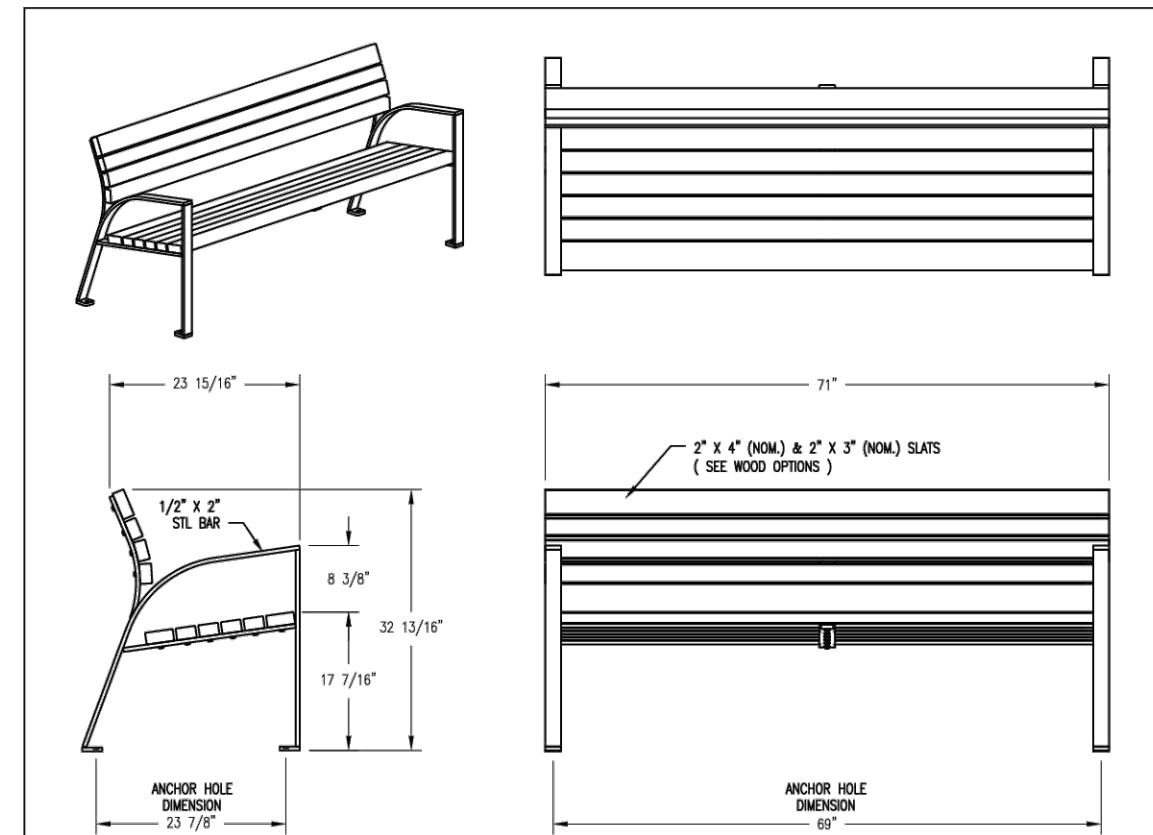
NOTES:

1. EXCAVATE TO MINIMUM DEPTH OF 400mm. ADDITIONAL EXCAVATION MAY BE REQ'D PENDING SOIL CONDITIONS AND ONLY AS DIRECTED BY THE PROJECT MANAGER.
2. CONCRETE STRENGTH TO BE 32MPa. AIR ENTRAINMENT 5-8%
3. MIN. CEMENT CONTENT OF 265kg/m³. MAX. WATER:CEMENTING MATERIALS RATIO 0.45.
4. ALL JOINTS AND EDGES TO BE HAND TOOLED USING EDGING TOOL WITH 6mm RADIUS

N.T.S.




2.1	N.T.S.
-----	--------



PLASTIC SLAT OPTIONS (SEE NOTE 3)

- ☐ "CEDAR" RECYCLED PLASTIC
- ☐ "GREY" RECYCLED PLASTIC
- ☐ "REDWOOD" RECYCLED PLASTIC
- ☐ "WALNUT" RECYCLED PLASTIC
- ☐ "ANTIQUE MAHOGANY" (TEXTURED)
- ☐ "BRAZILIAN WALNUT" (TEXTURED)

NOTES

- | | | | | |
|--|---|--|--|----------------|
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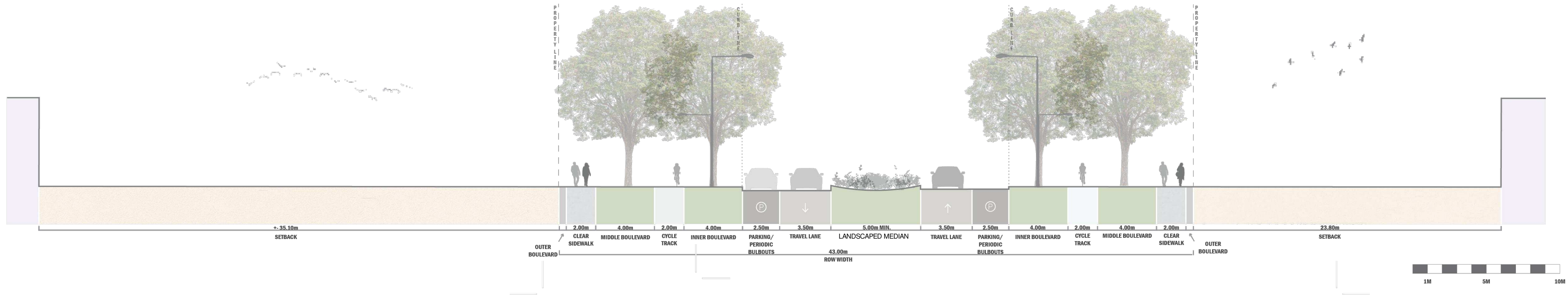
PROJECT
PUBLIC ROAD REDEVELOPMENT
TUNNEY'S PASTURE OTTAWA, ON

PROJECT NO:
139833
DRAWN BY:
T. KEMP
PROJECT MGR:
S. ALBANESE
CHECKED BY:
T. O'BRIEN
APPROVED BY:
T. O'BRIEN

SHEET TITLE
CONCEPT LANDSCAPE CROSS SECTIONS

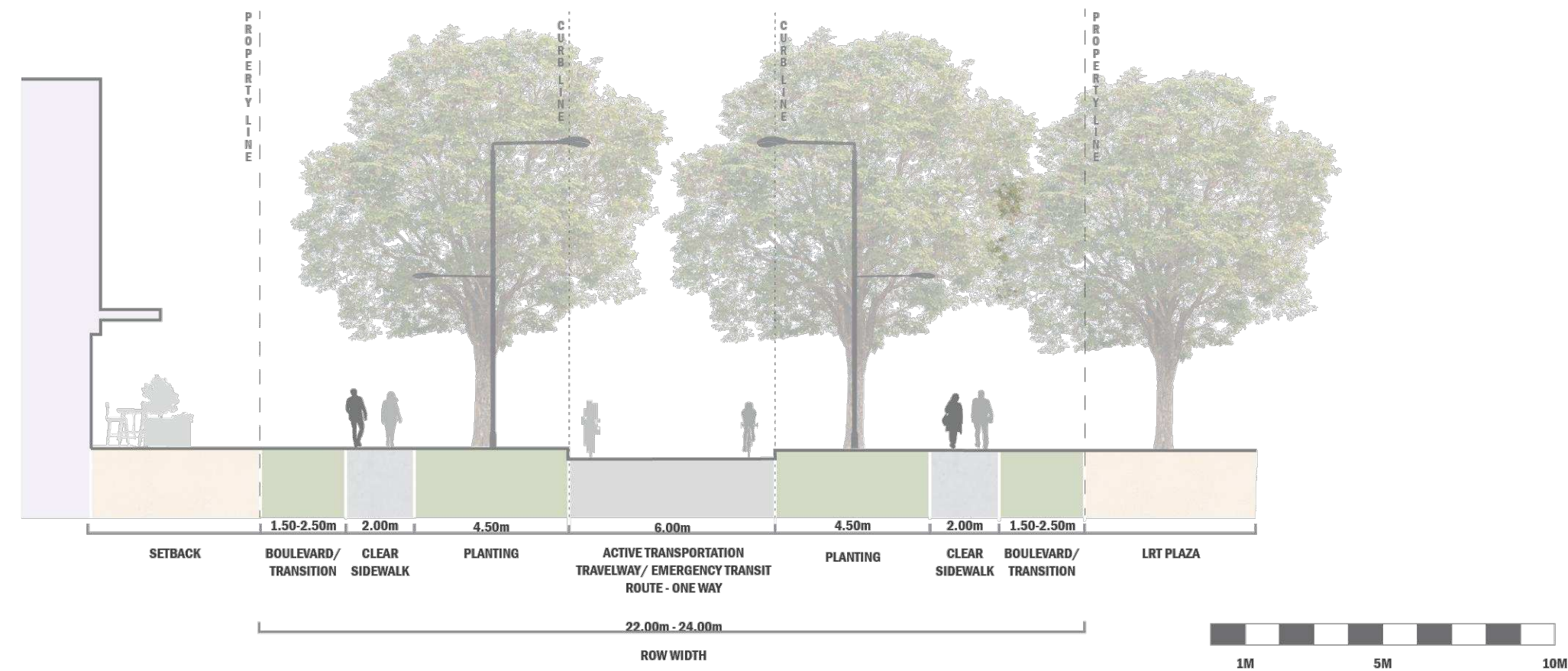
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L2.2
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3

43.0m ROW with Median
Tunney's Pasture Driveway (from Colombine to Yarrow)



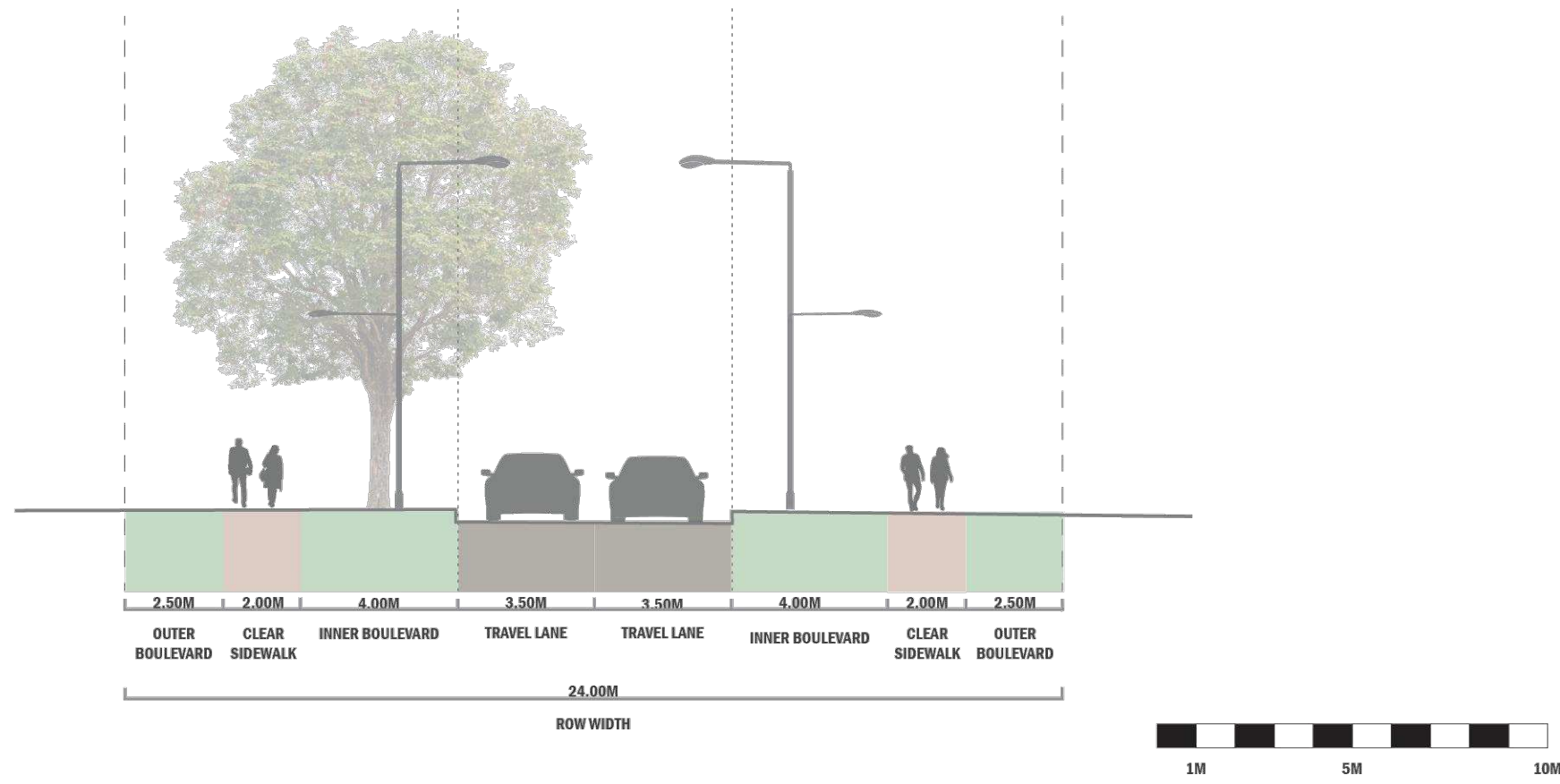
1
L2.2 TUNNEY'S PASTURE DRIVEWAY CROSS SECTION A - 43.0m RIGHT OF WAY
N.T.S.

22.0 - 24.0m ROW - Yarrow Driveway
(Proposed Chardon Extension to Tunney's Pasture Woonerf)

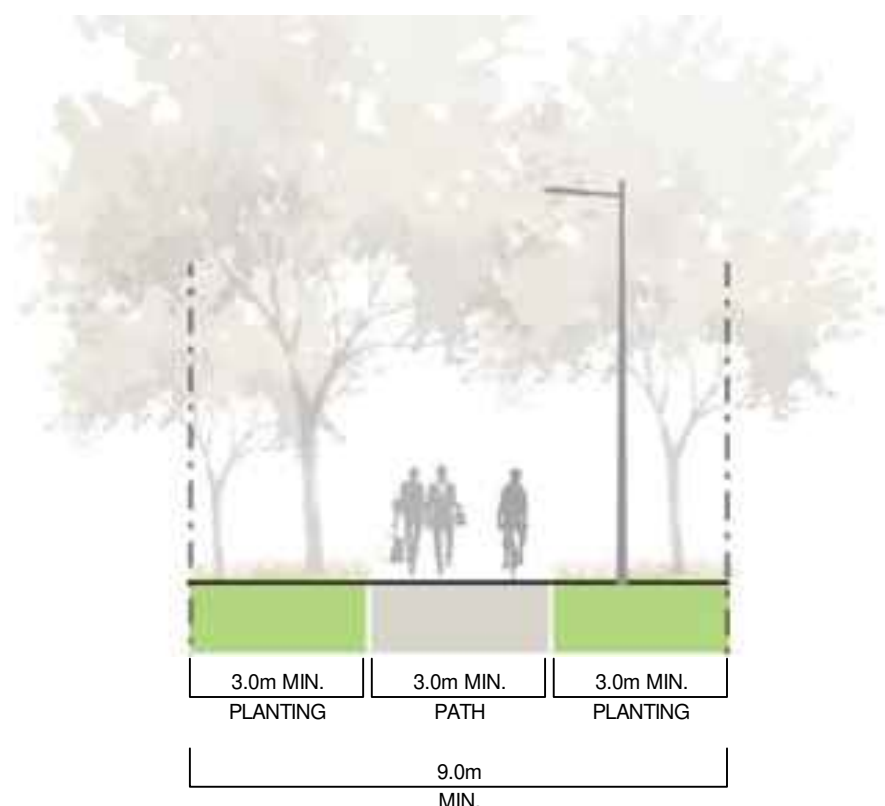


2
L2.2 YARROW DRIVEWAY CROSS SECTION B - 22.0 - 24.0m RIGHT OF WAY
N.T.S.

24.0m ROW
Sir Frederick Banting Extension (North of Colombine Driveway)



3
L2.2 SIR FREDERICK BATING EXTENSION CROSS SECTION C - 24.0m RIGHT OF WAY
N.T.S.



4
L2.2 MULTI-USE PATH CROSS SECTION D
N.T.S.