

TE KOHA

LANDSCAPE DRAWINGS: SITE

PROUDLY DEVELOPED BY

 **Raukawa**

IN PARTNERSHIP WITH

KA URUORA

STRATEGIC PARTNER

HĀPAI
HOUSING

SECTIONS REPRESENTED BY

TremainS

TEKOHA-TOKOROA.NZ



TOKOROA EAST SCHOOL SITE MAIN ROAD, TOKOROA



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TOKOROA EAST SCHOOL SITE
MAIN ROAD, TOKOROA

FOR COUNCIL

LANDSCAPE PLAN

REV: 2 DATE: 03/02/2025 SHEET No.

L0.00

SCALES (A3):

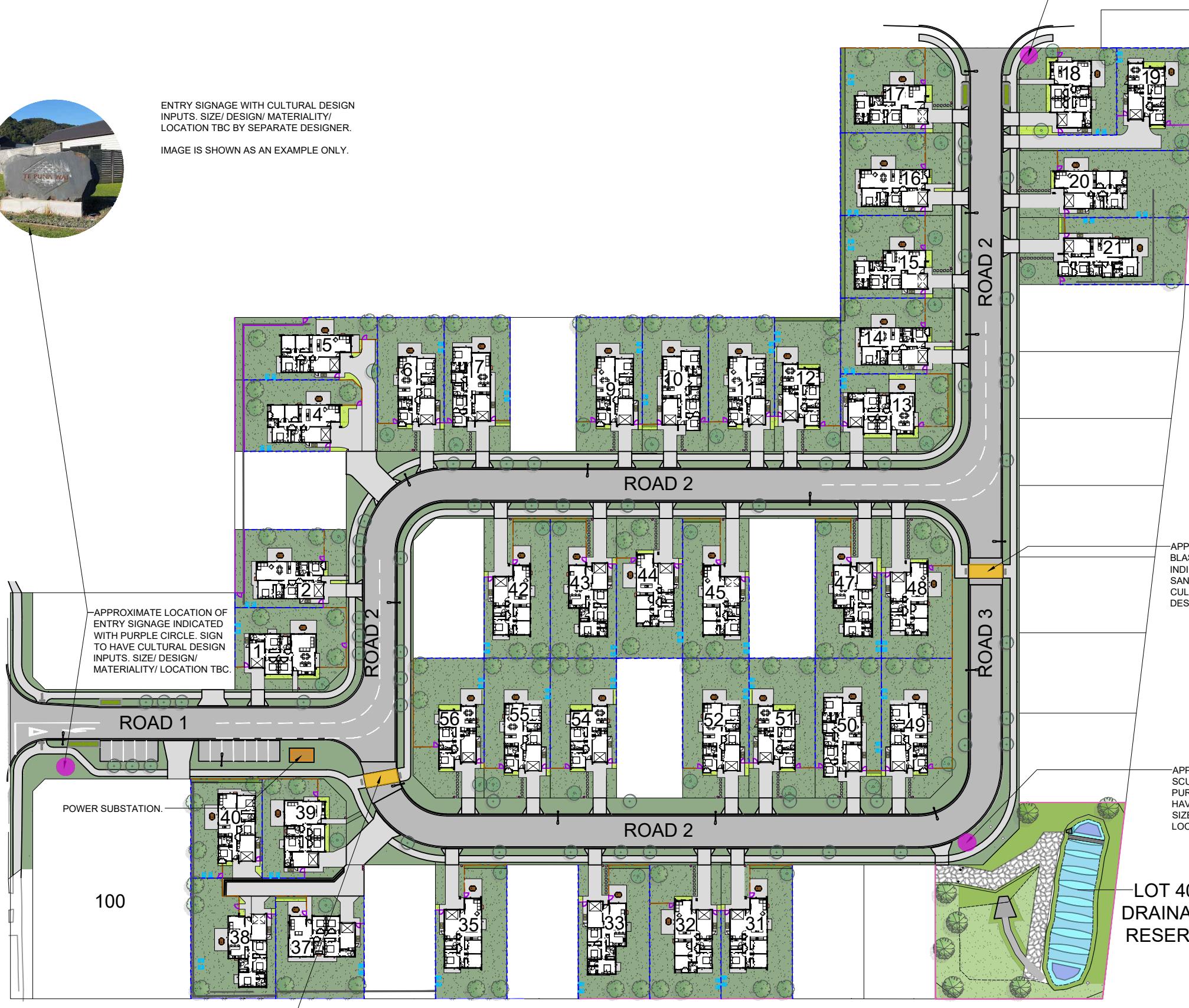
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DOCUMENT CONTROL		
REVISION	DATE	ISSUE/ DESCRIPTION
A	13/11/24	FOR REVIEW
B	18/11/24	FOR REVIEW
C	20/11/24	FOR REVIEW
D	25/11/24	FOR REVIEW
E	29/11/24	FOR PRICING
F	17/12/24	FOR PRICING
1	13/01/25	FOR COUNCIL
2	03/02/25	FOR COUNCIL



ENTRY SIGNAGE WITH CULTURAL DESIGN INPUTS. SIZE/ DESIGN/ MATERIALITY/ LOCATION TBC BY SEPARATE DESIGNER.

IMAGE IS SHOWN AS AN EXAMPLE ONLY



APPROXIMATE LOCATION OF SAND-BLASTED PATTERN TO RAISED TABLE INDICATED WITH YELLOW HATCH. SAND BLASTED PATTERN TO HAVE CULTURAL DESIGN INPUTS. SIZE/ DESIGN/ MATERIALITY/ LOCATION TBC

RECREATION RESERVE

APPROXIMATE LOCATION OF ENTRY
SIGNAGE INDICATED WITH PURPLE CIRCLE.
SIGN TO HAVE CULTURAL DESIGN INPUTS.
SIZE/ DESIGN/ MATERIALITY/ LOCATION TBC.

ESPLANADE RESERVE

RECREATION RESRVRCE

APPROXIMATE LOCATION OF SAND
BLASTED PATTERN TO RAISED TABLE
INDICATED WITH YELLOW HATCH.
SAND BLASTED PATTERN TO HAVE
CULTURAL DESIGN INPUTS. SIZE/
DESIGN/ MATERIAL ITY / LOCATION TRC

APPROXIMATE LOCATION OF A SCULPTURE INDICATED WITH PURPLE CIRCLE. SCULPTURE TO HAVE CULTURAL DESIGN INPUTS. SIZE/ DESIGN/ MATERIALITY/ LOCATION TBC

LOT 400
DRAINAGE
RESERVE



SANDBLASTED PATTERN TO CONCRETE
WITH CULTURAL DESIGN INPUTS. SIZE/
DESIGN/ MATERIALITY/ LOCATION TBC BY
SEPARATE DESIGNER.

IMAGE IS SHOWN AS AN EXAMPLE ONLY.



SCULPTURE/ POU WITH CULTURAL DESIGN INPUTS. SIZE/ DESIGN/ MATERIALITY/ LOCATION TBC BY SEPARATE DESIGNER

IMAGE IS SHOWN AS AN EXAMPLE ONLY



**TOKOROA EAST SCHOOL SITE
MAIN ROAD, TOKOROA**

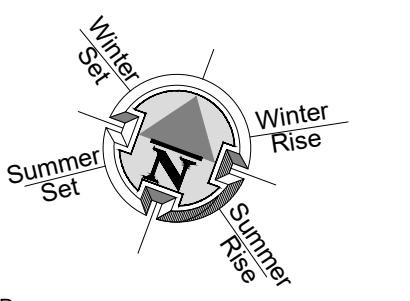
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LANDSCAPE PLAN

REV: 3 DATE: 03/03/2025 SHEET No.

SCALES (A3):

£0.00



1.2M PS	1.2M HIGH POOL STYLE FENCE
1.2M PS	1.2M HIGH POOL STYLE GATE
EX F	EXISTING FENCE. REFER NOTES FOR DETAILS
RW	RETAINING WALL (INDICATIVE. REFER ENGINEERING DOCUMENTATION FOR DETAILS).
HP	EXTERIOR HEAT PUMP UNIT. REFER ARCHITECTURAL DRAWINGS FOR DETAILS. ELECTRICIAN TO CONFIRM LOCATION ON SITE.
IPUPARA/ HANGARUA - SERVICE AREA FOR RUBBISH/ RECYCLING BINS	
POUAKA RETA- LETTERBOX. MAIL SLOT 0.9M - 1M FROM THE GROUND. TOP OF LETTERBOX NOT TO EXCEED 1M TO ENSURE NO OBSTRUCTIONS TO VISIBILITY FROM DRIVEWAYS.	
UNIT NUMBER	
WASHING LINE - RETRACTABLE OR FOLD DOWN, FIXED TO FENCE OR POSTS.	
HATCHED AREA TO BE KEPT CLEAR OF OBSTRUCTIONS TO VISIBILITY AS PER AS/NZS 2890.1 (PLANTING/ LETTERBOX/ FENCE ETC TO BE 1.0M HIGH MAXIMUM).	
REFER DOCUMENTATION BY OTHERS FOR DETAILS OF ANY BARRIERS TO PREVENT FALLING, INCLUDING LOCATION AND CONSTRUCTION DETAILS.	

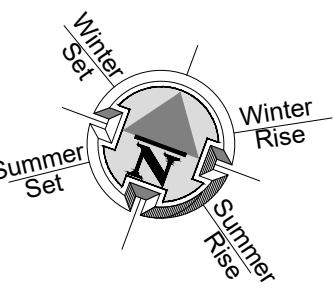
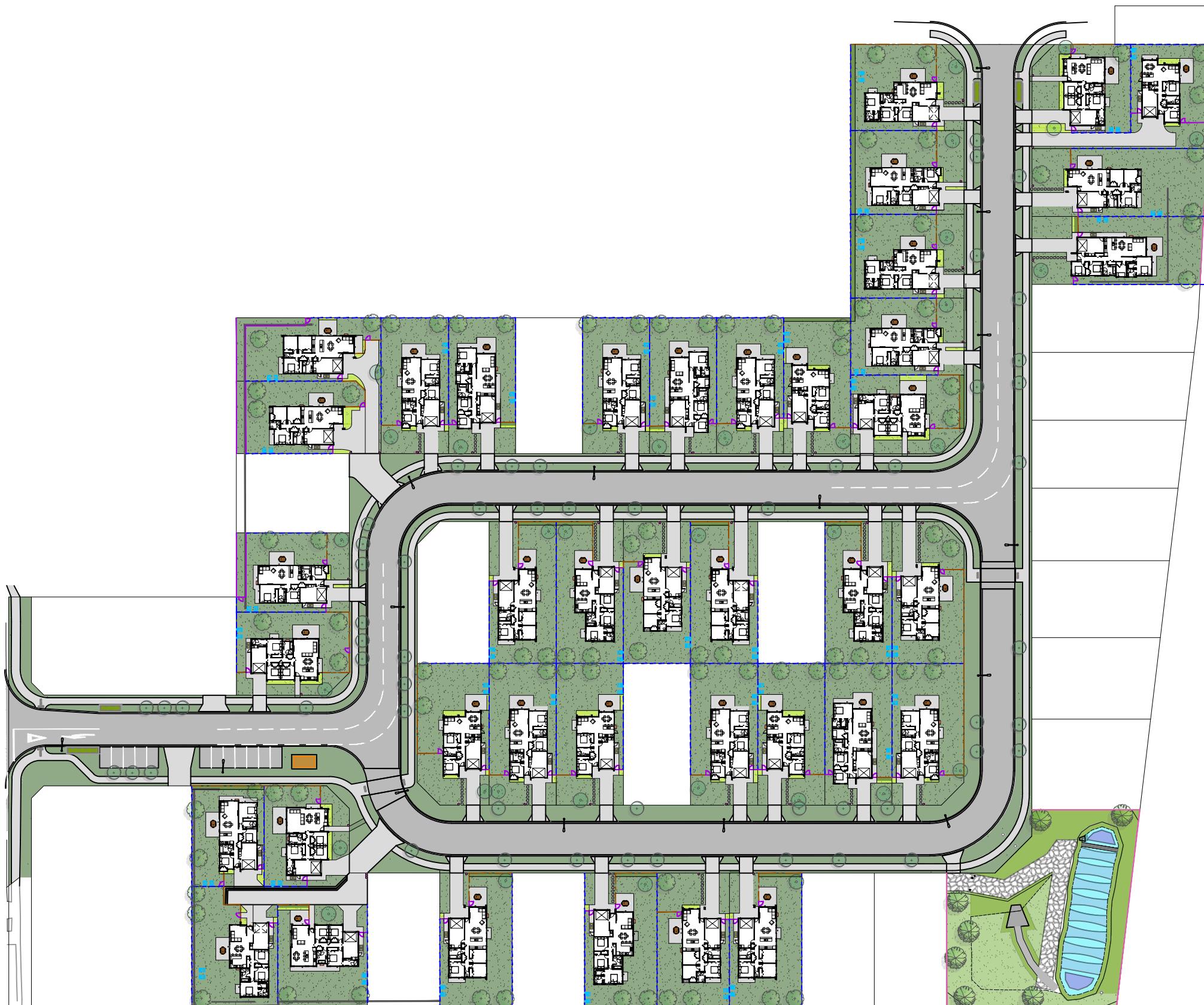
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TOKOROA EAST SCHOOL SITE
MAIN ROAD, TOKOROA

**FOR COUNCIL
LANDSCAPE PLAN**

REV: 2	DATE: 03/02/2025	SHEET No.
SCALES (A3): 1:1,000		L0.01



LEGEND	
	KARAEHE - GRASS
	RAIMA- CONCRETE. BRUSH FINISH
	ROAD. FINISH BY OTHERS
	KÖWHATU- STONES (PERMEABLE)
	① TYPE 1 FRUIT TREE READ IN CONJUNCTION WITH PLANTING PALETTE
	② TYPE 2 SPECIMEN TREE READ IN CONJUNCTION WITH PLANTING PALETTE
	③ HEDGE PLANTING. READ IN CONJUNCTION WITH PLANTING PALETTE
	④ LOW PLANTING. READ IN CONJUNCTION WITH PLANTING PALETTE
	PAVERS (SHOWN INDICATIVELY)
	1.8M F 1.8M HIGH ROUGH SAWN CLOSED BOARDED TIMBER FENCE
	1.8M OS 1.8m high timber batten fence with gaps for 50% visually permeability
	1.5M S 1.5M HIGH TIMBER BATTEN FENCE
	1.2M PS 1.2M HIGH POOL STYLE GATE
	1.2M PS 1.2M HIGH POOL STYLE FENCE
	EX F EXISTING FENCE. REFER NOTES FOR DETAILS
	RW RETAINING WALL (INDICATIVE. REFER ENGINEERING DOCUMENTATION FOR DETAILS).
	HP EXTERIOR HEAT PUMP UNIT. REFER ARCHITECTURAL DRAWINGS FOR DETAILS. ELECTRICIAN TO CONFIRM LOCATION ON SITE.
	IPUPARA/ HANGARUA - SERVICE AREA FOR RUBBISH/ RECYCLING BINS
	POUAKA RETA- LETTERBOX. MAIL SLOTH 0.9M – 1M FROM THE GROUND. TOP OF LETTERBOX NOT TO EXCEED 1M TO ENSURE NO OBSTRUCTIONS TO VISIBILITY FROM DRIVEWAYS.
	LB UNIT NUMBER
	WASHING LINE - RETRACTABLE OR FOLD DOWN, FIXED TO FENCE OR POSTS.
	2000 HATCHED AREA TO BE KEPT CLEAR OF OBSTRUCTIONS TO VISIBILITY AS PER AS/NZS 2890.1 (PLANTING/ LETTERBOX/ FENCE ETC TO BE 1.0M HIGH MAXIMUM).
	2500 REFER DOCUMENTATION BY OTHERS FOR DETAILS OF ANY BARRIERS TO PREVENT FALLING, INCLUDING LOCATION AND CONSTRUCTION DETAILS.

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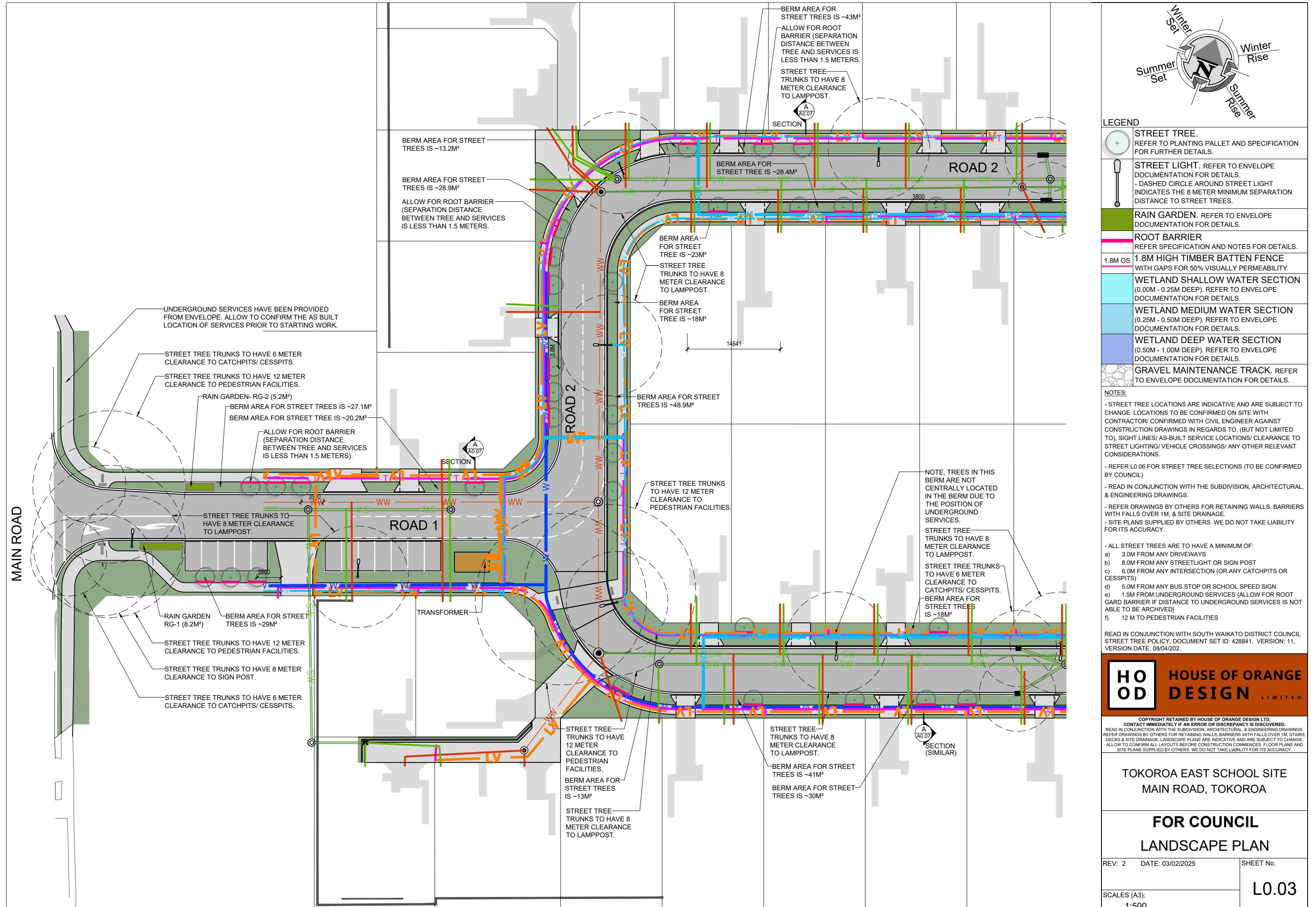
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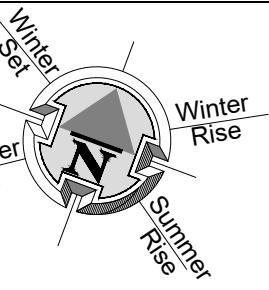
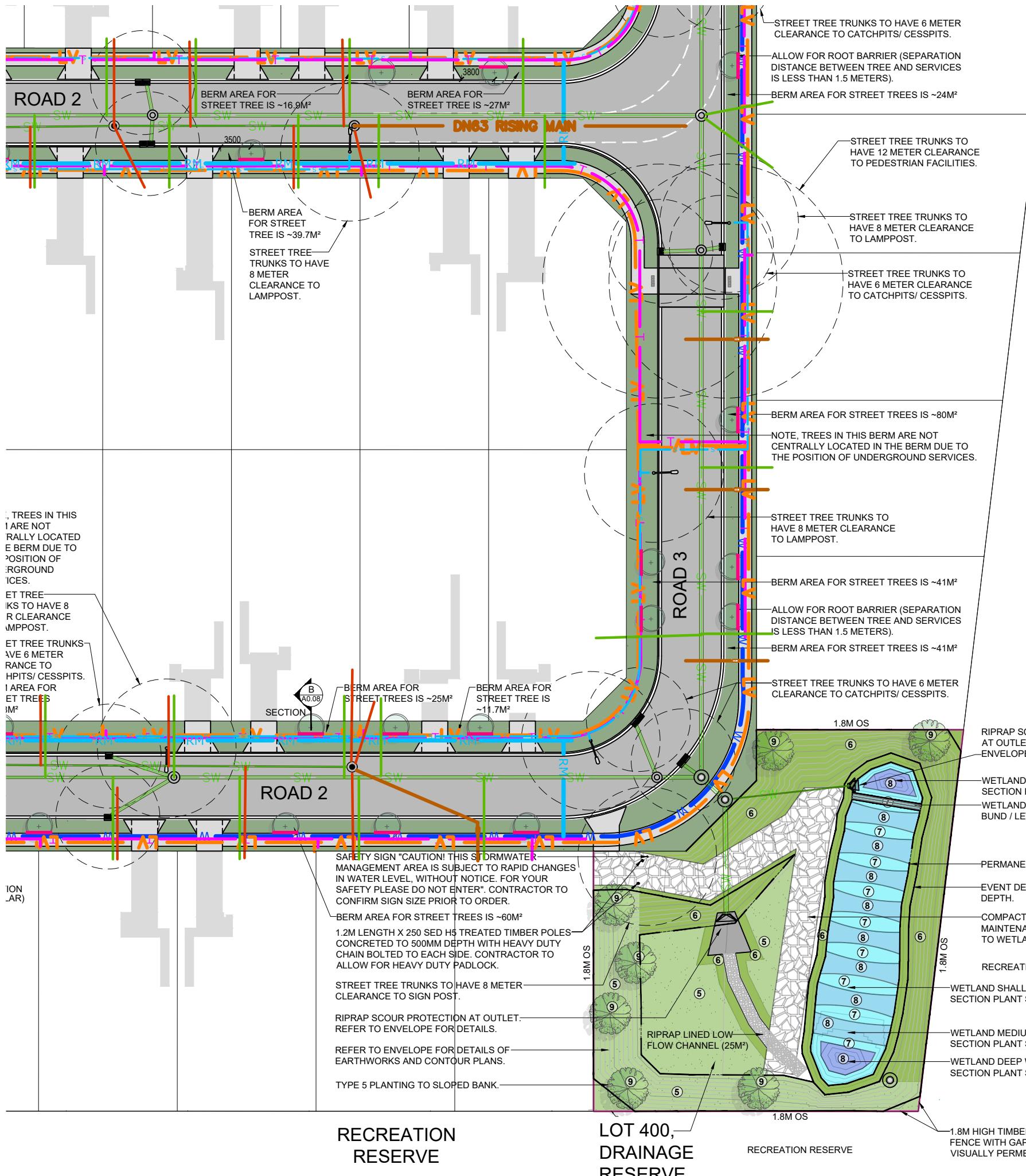
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MAIN ROAD, TOKOROA

**FOR COUNCIL
LANDSCAPE PLAN**

REV: 2 DATE: 03/02/2025 SHEET No.

SCALES (A3):
1:1,000 L0.02





RECREATION RESERVE

RECREATION RESERVE

LOT 400,
DRAINAGE
RESERVE

LEGEND	
	STREET TREE. REFER TO PLANTING PALLET AND SPECIFICATION FOR FURTHER DETAILS.
	STREET LIGHT. REFER TO ENVELOPE DOCUMENTATION FOR DETAILS. - DASHED CIRCLE AROUND STREET LIGHT INDICATES THE 8 METER MINIMUM SEPARATION DISTANCE TO STREET TREES.
	RAIN GARDEN. REFER TO ENVELOPE DOCUMENTATION FOR DETAILS.
	ROOT BARRIER REFER SPECIFICATION AND NOTES FOR DETAILS.
	1.8M OS 1.8M HIGH TIMBER BATTEN FENCE WITH GAPS FOR 50% VISUALLY PERMEABILITY
	WETLAND SHALLOW WATER SECTION (0.00M - 0.25M DEEP). REFER TO ENVELOPE DOCUMENTATION FOR DETAILS.
	WETLAND MEDIUM WATER SECTION (0.25M - 0.50M DEEP). REFER TO ENVELOPE DOCUMENTATION FOR DETAILS.
	WETLAND DEEP WATER SECTION (0.50M - 1.00M DEEP). REFER TO ENVELOPE DOCUMENTATION FOR DETAILS.
	GRAVEL MAINTENANCE TRACK. REFER TO ENVELOPE DOCUMENTATION FOR DETAILS.

NOTES:

- STREET TREE LOCATIONS ARE INDICATIVE AND ARE SUBJECT TO CHANGE. LOCATIONS TO BE CONFIRMED ON SITE WITH CONTRACTOR/ CONFIRMED WITH CIVIL ENGINEER AGAINST CONSTRUCTION DRAWINGS IN REGARDS TO, (BUT NOT LIMITED TO), SIGHT LINES/ AS-BUILT SERVICE LOCATIONS/ CLEARANCE TO STREET LIGHTING/ VEHICLE CROSSINGS/ ANY OTHER RELEVANT CONSIDERATIONS.

- REFER L0.06 FOR STREET TREE SELECTIONS (TO BE CONFIRMED BY COUNCIL)
- READ IN CONJUNCTION WITH THE SUBDIVISION, ARCHITECTURAL, & ENGINEERING DRAWINGS.
- REFER DRAWINGS BY OTHERS FOR RETAINING WALLS, BARRIERS WITH FALLS OVER 1M, & SITE DRAINAGE.
- SITE PLANS SUPPLIED BY OTHERS. WE DO NOT TAKE LIABILITY

FOR ITS ACCURACY.

- ALL STREET TREES ARE TO HAVE A MINIMUM OF:
 - a) 3.0M FROM ANY DRIVEWAYS
 - b) 8.0M FROM ANY STREETLIGHT OR SIGN POST
 - c) 6.0M FROM ANY INTERSECTION (OR ANY CATCHPITS OR CESSPITS)
 - d) 5.0M FROM ANY BUS STOP OR SCHOOL SPEED SIGN
 - e) 1.5M FROM UNDERGROUND SERVICES (ALLOW FOR ROOT GARD BARRIER IF DISTANCE TO UNDERGROUND SERVICES IS NOT ABLE TO BE ARCHIVED)

READ IN CONJUNCTION WITH SOUTH WAIKATO DISTRICT COUNCIL
STREET TREE POLICY, DOCUMENT SET ID: 428841, VERSION: 11,

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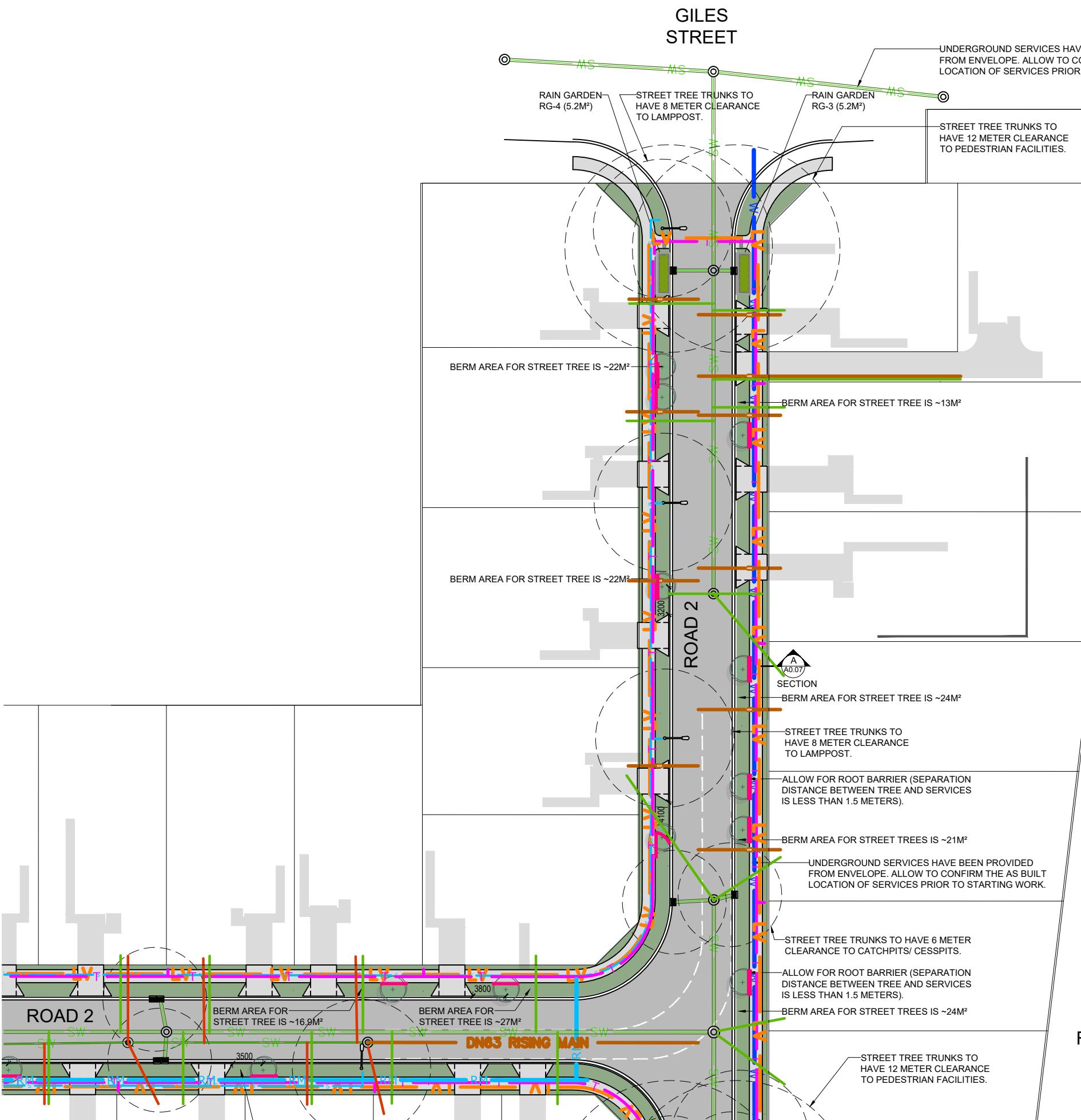
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**TOKOROA EAST SCHOOL SITE
MAIN ROAD, TOKOROA**

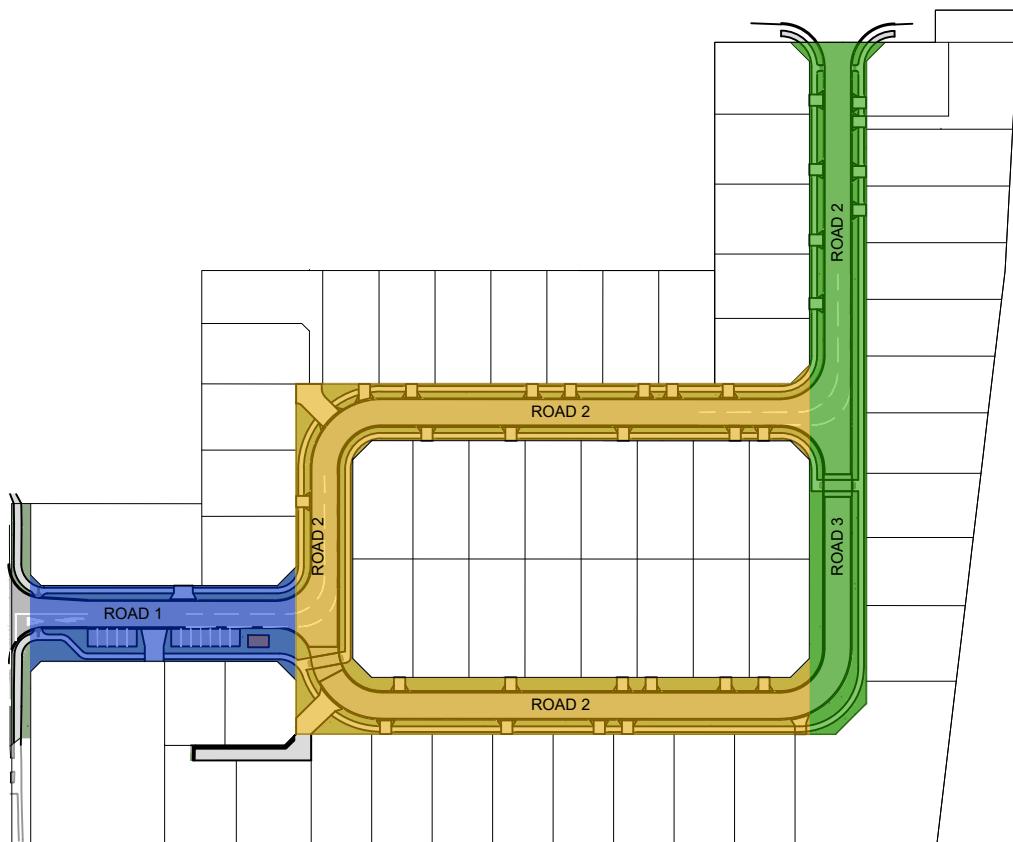
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LANDSCAPE PLAN

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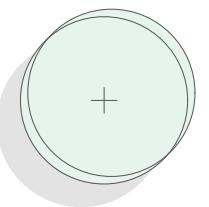


LEGEND	
	STREET TREE. REFER TO PLANTING PALLET AND SPECIFICATION FOR FURTHER DETAILS.
	STREET LIGHT. REFER TO ENVELOPE DOCUMENTATION FOR DETAILS. - DASHED CIRCLE AROUND STREET LIGHT INDICATES THE 8 METER MINIMUM SEPARATION DISTANCE TO STREET TREES.
	RAIN GARDEN. REFER TO ENVELOPE DOCUMENTATION FOR DETAILS.
	ROOT BARRIER REFER SPECIFICATION AND NOTES FOR DETAILS.
	1.8M OS 1.8M HIGH TIMBER BATTEN FENCE WITH GAPS FOR 50% VISUALLY PERMEABILITY
	WETLAND SHALLOW WATER SECTION (0.00M - 0.25M DEEP). REFER TO ENVELOPE DOCUMENTATION FOR DETAILS.
	WETLAND MEDIUM WATER SECTION (0.25M - 0.50M DEEP). REFER TO ENVELOPE DOCUMENTATION FOR DETAILS.
	WETLAND DEEP WATER SECTION (0.50M - 1.00M DEEP). REFER TO ENVELOPE DOCUMENTATION FOR DETAILS.
	GRAVEL MAINTENANCE TRACK. REFER TO ENVELOPE DOCUMENTATION FOR DETAILS.
NOTES: <ul style="list-style-type: none"> - STREET TREE LOCATIONS ARE INDICATIVE AND ARE SUBJECT TO CHANGE. LOCATIONS TO BE CONFIRMED ON SITE WITH CONTRACTOR/ CONFIRMED WITH CIVIL ENGINEER AGAINST CONSTRUCTION DRAWINGS IN REGARDS TO, (BUT NOT LIMITED TO), SIGHT LINES/ AS-BUILT SERVICE LOCATIONS/ CLEARANCE TO STREET LIGHTING/ VEHICLE CROSSINGS/ ANY OTHER RELEVANT CONSIDERATIONS. - REFER L0.06 FOR STREET TREE SELECTIONS (TO BE CONFIRMED BY COUNCIL) - READ IN CONJUNCTION WITH THE SUBDIVISION, ARCHITECTURAL, & ENGINEERING DRAWINGS. - REFER DRAWINGS BY OTHERS FOR RETAINING WALLS, BARRIERS WITH FALLS OVER 1M, & SITE DRAINAGE. - SITE PLANS SUPPLIED BY OTHERS. WE DO NOT TAKE LIABILITY FOR ITS ACCURACY. - ALL STREET TREES ARE TO HAVE A MINIMUM OF: <ul style="list-style-type: none"> a) 3.0M FROM ANY DRIVEWAYS b) 8.0M FROM ANY STREETLIGHT OR SIGN POST c) 6.0M FROM ANY INTERSECTION (OR ANY CATCHPITS OR CESSPITS) d) 5.0M FROM ANY BUS STOP OR SCHOOL SPEED SIGN e) 1.5M FROM UNDERGROUND SERVICES (ALLOW FOR ROOT GARD BARRIER IF DISTANCE TO UNDERGROUND SERVICES IS NOT ABLE TO BE ARCHIVED) f) 12 M TO PEDESTRIAN FACILITIES 	
<small>READ IN CONJUNCTION WITH SOUTH WAIKATO DISTRICT COUNCIL STREET TREE POLICY, DOCUMENT SET ID: 428841, VERSION: 11, VERSION DATE: 08/04/2022.</small>	
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TOKOROA EAST SCHOOL SITE MAIN ROAD, TOKOROA	
FOR COUNCIL LANDSCAPE PLAN	
REV: 2 DATE: 03/02/2025	SCALE (A3): 1:500
L0.05	



STREET TREE SELECTION REFERENCE PLAN

KEY:



PLANT ATTRIBUTES:

- TREES TO BE PB 95 GRADE (45 LITRES) MINIMUM POT SIZE.
- DECIDUOUS
- EXOTIC
- READ IN CONJUNCTION WITH STREET TREE SPECIFICATIONS.
- TRUNK CLASS SIZE: 300-600MM
- TREES SHALL BE WELL BRANCHED, SYMMETRICAL AND OF TYPICAL HABIT FOR THE SPECIES. ALL PLANTS SHALL BE NURSERY STOCK OF GOOD FORM, HEALTHY AND VIGOROUS WITH STRONG FIBROUS ROOT SYSTEMS AND FREE OF ALL PESTS AND DISEASES.
- ALL TREES SHALL BE SUPPLIED WITH THE CENTRAL LEADER INTACT, WHEREBY NO PRUNING OF THE CENTRAL LEADER SHALL HAVE TAKEN PLACE.
- ALL TREE STOCK SHALL BE WELL ROOTED BUT NOT ROOT BOUND. ALL ROOT BALLS AND CONTAINERS SHALL BE FREE OF WEEDS.

STREET TREE SELECTION FOR ROAD 1
(BLUE HATCH ON REFERENCE PLAN)



LIRIODENDRON
TULIPIFERA
TULIP TREE
6X8M

NOTES:

- PLANT IMAGES INDICATIVE ONLY.
- WIDTH AND HEIGHT ARE NOTED AS THE AVERAGE 10 YEAR SIZE. GROWTH AND MATURE SIZE INFORMATION ARE GIVEN IN GOOD FAITH BUT ARE SUBJECT TO NATURAL VARIABLES BEYOND OUR CONTROL.

STREET TREE SPECIFICATIONS
(AS SOURCED FROM SOUTH WAIKATO DISTRICT COUNCIL STREET TREE POLICY, DOCUMENT SET ID: 428841, VERSION: 11, VERSION DATE: 08/04/2022)

a) **ROOT PROTECTION ZONE**
THE MINIMUM AREA REQUIRED TO ENSURE THAT A TREE'S HEALTH AND STABILITY IS SAFEGUARDED, WILL BE CALCULATED USING THE FOLLOWING TABLE:

ROOT PROTECTION DISTANCES

TREE AGE VIGOUR / METRES

i. **YOUNG TREES (WHERE THE AGE OF THE TREE IS LESS THAN 20% OF LIFE EXPECTANCY):**
GOOD VIGOUR 6 X DBH*
POOR VIGOUR 9 X DBH

ii. **MATURE TREES (WHERE THE AGE OF THE TREE IS BETWEEN 20% AND 80% OF LIFE EXPECTANCY):**
GOOD VIGOUR 9 X DBH
POOR VIGOUR 12 X DBH

iii. **OVER MATURE TREES (WHERE THE AGE OF TREE IS GREATER THAN 80% OF LIFE EXPECTANCY):**
GOOD VIGOUR 12 X DBH
POOR VIGOUR 15 X DBH

- DBH MEANS DIAMETER AT BREAST HEIGHT WHICH IN NZ IS DIAMETER AT 1.4M HIGH (THE DIAMETER OF THE STEM 1.4M ABOVE GROUND LEVEL). THE DBH IS GIVEN IN GOOD FAITH BUT ARE SUBJECT TO NATURAL VARIABLES BEYOND OUR CONTROL.

MINIMUM BERM AREA PROVIDED FOR EACH STREET TREE IS 9M² WHICH ASSUMES A 'WORST CASE SCENARIO' OF POOR VIGOUR (WITH A CO-EFFICIENT OF 15) X DBH (ASSUMED UP TO 600MM).

REFER STREET TREE PLAN FOR BERM AREA ASSUMED AVAILABLE FOR EACH STREET TREE.

PLANT ATTRIBUTES:

- TREES TO BE PB 95 GRADE (45 LITRES) MINIMUM POT SIZE.
- DECIDUOUS
- EXOTIC
- READ IN CONJUNCTION WITH STREET TREE SPECIFICATIONS.
- TRUNK CLASS SIZE: 300-600MM
- TREES SHALL BE WELL BRANCHED, SYMMETRICAL AND OF TYPICAL HABIT FOR THE SPECIES. ALL PLANTS SHALL BE NURSERY STOCK OF GOOD FORM, HEALTHY AND VIGOROUS WITH STRONG FIBROUS ROOT SYSTEMS AND FREE OF ALL PESTS AND DISEASES.
- ALL TREES SHALL BE SUPPLIED WITH THE CENTRAL LEADER INTACT, WHEREBY NO PRUNING OF THE CENTRAL LEADER SHALL HAVE TAKEN PLACE.
- ALL TREE STOCK SHALL BE WELL ROOTED BUT NOT ROOT BOUND. ALL ROOT BALLS AND CONTAINERS SHALL BE FREE OF WEEDS.

STREET TREE SELECTION FOR ROAD 2
(YELLOW HATCH ON REFERENCE PLAN)



GINKGO BILOBA
FASTIGIATUM
3X7M

PLANT ATTRIBUTES:

- TREES TO BE PB 95 GRADE (45 LITRES) MINIMUM POT SIZE.
- DECIDUOUS
- EXOTIC
- READ IN CONJUNCTION WITH STREET TREE SPECIFICATIONS.
- TRUNK CLASS SIZE: 300-600MM
- TREES SHALL BE WELL BRANCHED, SYMMETRICAL AND OF TYPICAL HABIT FOR THE SPECIES. ALL PLANTS SHALL BE NURSERY STOCK OF GOOD FORM, HEALTHY AND VIGOROUS WITH STRONG FIBROUS ROOT SYSTEMS AND FREE OF ALL PESTS AND DISEASES.
- ALL TREES SHALL BE SUPPLIED WITH THE CENTRAL LEADER INTACT, WHEREBY NO PRUNING OF THE CENTRAL LEADER SHALL HAVE TAKEN PLACE.
- ALL TREE STOCK SHALL BE WELL ROOTED BUT NOT ROOT BOUND. ALL ROOT BALLS AND CONTAINERS SHALL BE FREE OF WEEDS.

STREET TREE SELECTION FOR ROAD 3 AND SECTION OF ROAD 2
(GREEN HATCH ON REFERENCE PLAN)



CARPINUS BETULUS
'FASTIGIATA'
- UPRIGHT EUROPEAN HORNBEAM
- 4X12M

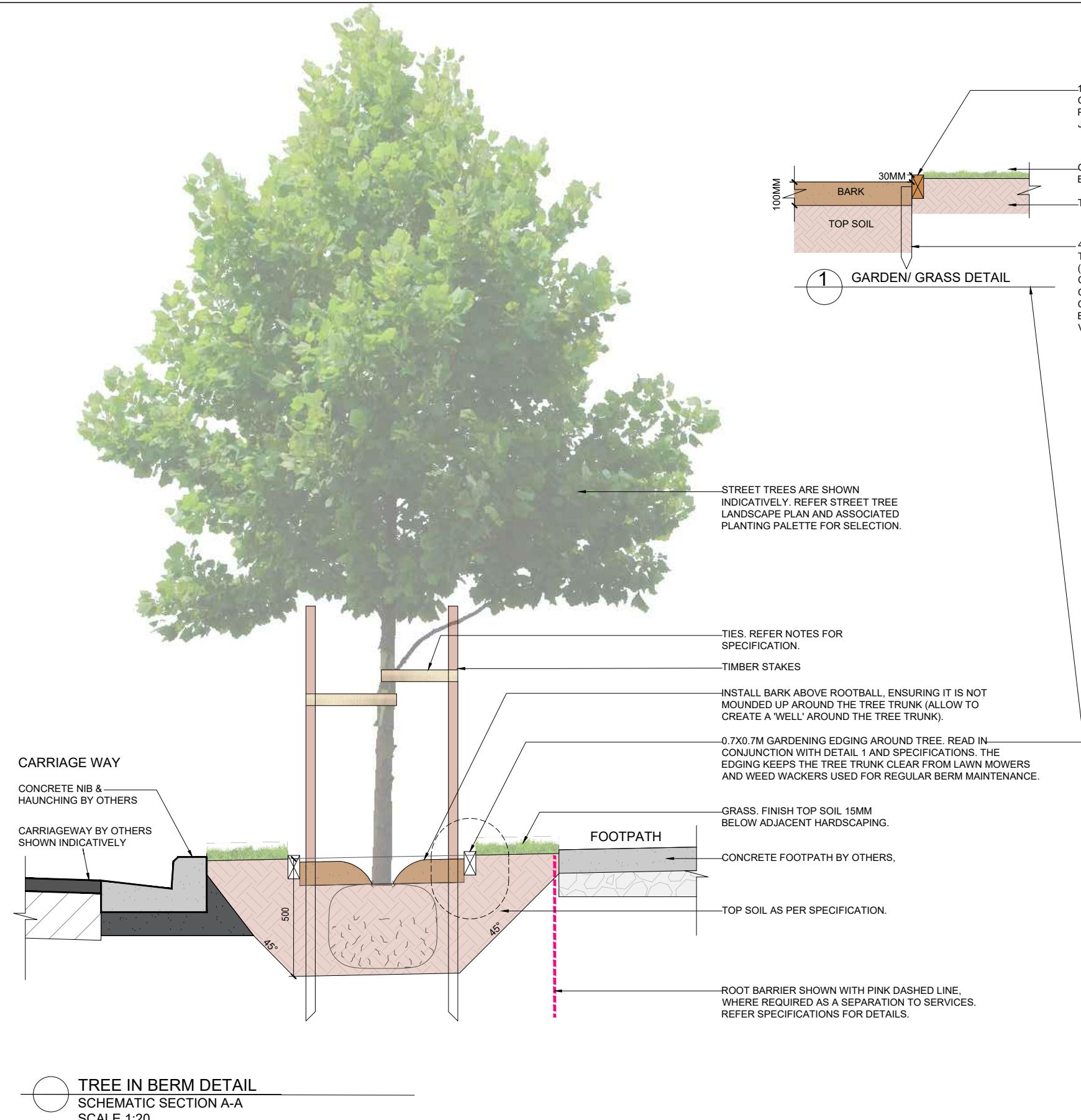


TOKOROA EAST SCHOOL SITE
MAIN ROAD, TOKOROA

FOR COUNCIL
LANDSCAPE PLAN

REV: 2 DATE: 03/02/2025 SHEET No.

SCALES (A3): - L0.06



DOCUMENTS TO BE READ IN CONJUNCTION WITH THE SPECIFICATIONS, CONSULTANTS DOCUMENTS, MANUFACTURER'S INSTALLATION GUIDES, & MAINTENANCE SCHEDULES. PROJECT MANAGER TO ENSURE ALL REQUIRED & UPDATED DOCUMENTS ARE OBTAINED & DISTRIBUTED APPROPRIATELY.



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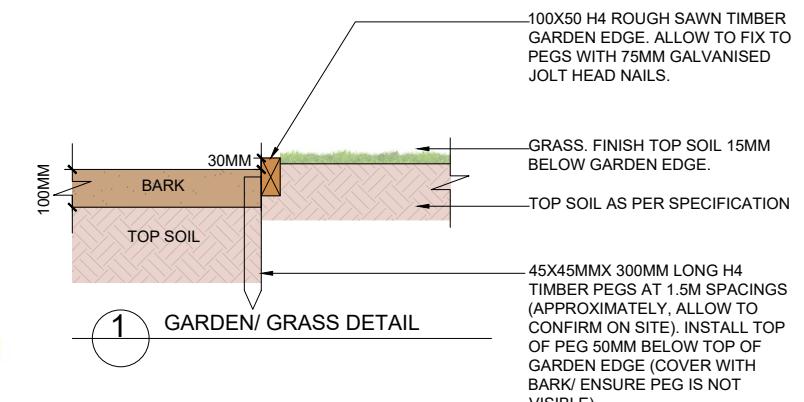
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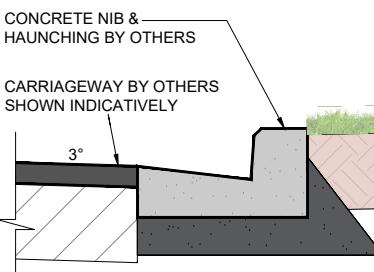
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1 GARDEN/ GRASS DETAIL

45X45MMX 300MM LONG H4 TIMBER PEGS AT 1.5M SPACINGS (APPROXIMATELY, ALLOW TO CONFIRM ON SITE). INSTALL TOP OF PEG 50MM BELOW TOP OF GARDEN EDGE (COVER WITH BARK/ ENSURE PEG IS NOT VISIBLE).

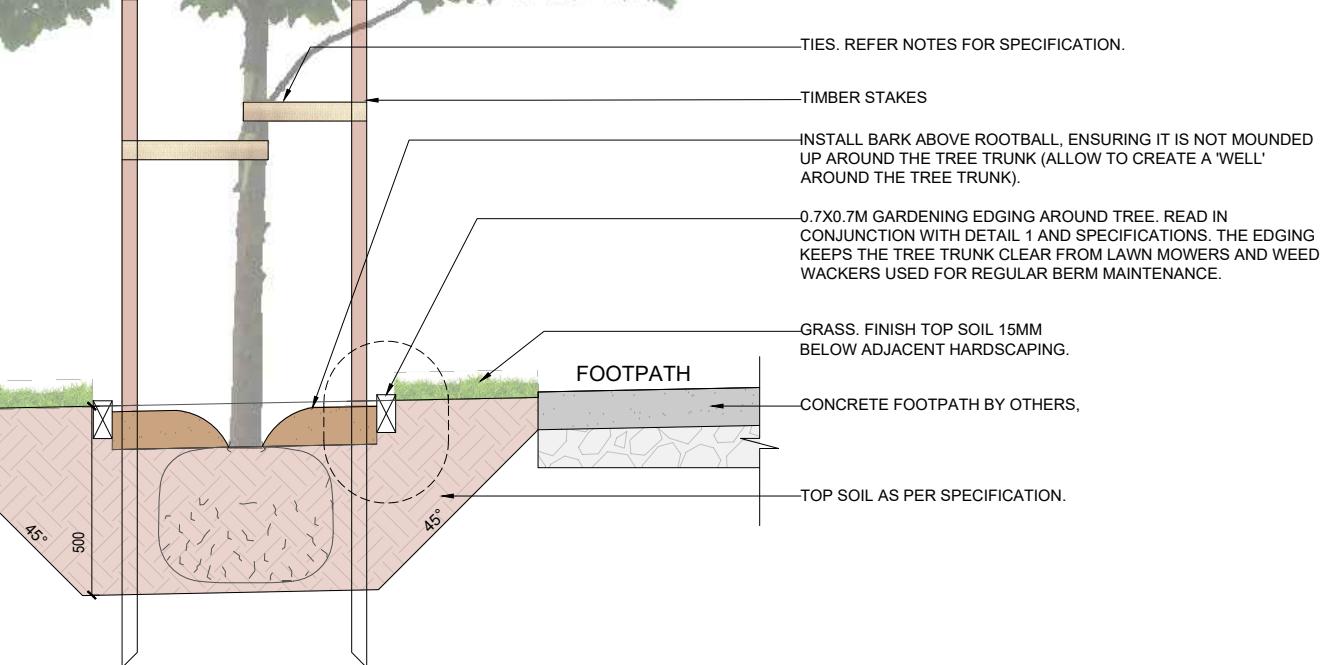
CARRIAGE WAY



REFER ENVELOPE DOCUMENTATION FOR LOCATION OF UNDERGROUND SERVICES.

ROOT BARRIER SHOWN WITH PURPLE DASHED LINE, WHERE REQUIRED AS A SEPARATION TO SERVICES. REFER SPECIFICATIONS FOR DETAILS.

TREE IN BERM DETAIL
SCHEMATIC SECTION B-B
SCALE 1:20



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DECKS & SITE DRAINAGE. LANDSCAPE PLANS ARE INDICATIVE AND ARE SUBJECT TO CHANGE.
ALLOW TO CONFIRM ALL LAYOUTS BEFORE CONSTRUCTION COMMENCES. FLOOR PLANS AND
SITE PLANS SUPPLIED BY OTHERS. WE DO NOT TAKE LIABILITY FOR ITS ACCURACY.

TOKOROA EAST SCHOOL SITE
MAIN ROAD, TOKOROA

FOR COUNCIL
LANDSCAPE PLAN

REV: 2 DATE: 03/02/2025 SHEET No.

SCALES (A3):
1:20 L0.08

STREET TREE SPECIFICATIONS
(AS SOURCED FROM SOUTH WAIKATO DISTRICT COUNCIL STREET TREE POLICY, DOCUMENT SET ID: 428841, VERSION: 11, VERSION DATE: 08/04/2022):

REFER TO GENERAL LAWN PREPARATION AND INSTALLATION FOR GRASS IN BERMS.

REFER TO GENERAL SOIL SPECIFICATIONS FOR SOIL FOR STREET TREE SOIL. ALLOW FOR 500M DEEP SOIL FOR STREET TREES. READ IN CONJUNCTION WITH STREET TREE BERM SECTIONS.

STREET TREE PLANTING

STREET TREE PLANTING WILL TAKE PLACE FROM MAY TO SEPTEMBER AS PART OF THE PARKS AND RESERVES DEPARTMENT'S ANNUAL TREE PLANTING PROGRAMME.

PARKS AND RESERVE STAFF WILL MAINTAIN A DATABASE OF STREET TREE REPLACEMENTS REQUIRED AND IN CONJUNCTION WITH COUNCIL'S ROADING TEAM DETERMINE ANY UNPLANTED STREETS TO BE PLANTED EACH YEAR.

COUNCIL WILL USE THE BEFORE -U-DIG WEBSITE TO ORGANISE FOR ANY UTILITY SERVICE CABLES OR FEATURES TO BE MARKED ON SITE PRIOR TO TREE PLANTING OPERATIONS COMMENCING.

ALL STREET TREES, WHERE ABLE TO BE SOURCED, SHALL BE OF A MINIMUM GRADE OF PB 95 (45L) GRADE TO PROVIDE INSTANT EFFECT AND TO WITHSTAND ANY MINOR VANDALISM.

TREES SHALL BE WELL BRANCHED, SYMMETRICAL AND OF TYPICAL HABIT FOR THE SPECIES. ALL PLANTS SHALL BE NURSERY STOCK OF GOOD FORM, HEALTHY AND VIGOROUS WITH STRONG FIBROUS ROOT SYSTEMS AND FREE OF ALL PESTS AND DISEASES.

ALL TREES SHALL BE SUPPLIED WITH THE CENTRAL LEADER INTACT, WHEREBY NO PRUNING OF THE CENTRAL LEADER SHALL HAVE TAKEN PLACE.

ALL TREE STOCK SHALL BE WELL ROOTED BUT NOT ROOT BOUND. ALL ROOT BALLS AND CONTAINERS SHALL BE FREE OF WEEDS.

PLANTING OF STREET TREES WILL BE UNDERTAKEN BY AN APPROVED CONTRACTOR UNDER THE WAIKATO LASS APPROVED CONTRACTOR SCHEME. THIS WORK SHALL INCLUDE:

a) ALL TORN OR DAMAGED BRANCHES AND ROOTS BEING PRUNED BEFORE PLANTING

b) REMOVAL OF LOW BRANCHES ON THE STEMS

c) PLANTING HOLES SHALL BE BOTH WIDE ENOUGH AND DEEP ENOUGH TO ACCOMMODATE THE ENTIRE ROOT SYSTEM, WITH ROOM FOR ROOTS TO SPREAD. THE PLANTING HOLE DIAMETER SHOULD BE 30-60CM WIDER THAN THE ROOT SYSTEM.

i. THE SIDES OF THE PLANTING HOLE SHALL NOT BE LEFT SMOOTH OR GLAZED AS THIS MAY INHIBIT ROOT DEVELOPMENT. PAN SOIL AT THE BASE OF THE PLANTING HOLE SHALL BE BROKEN UP TO IMPROVE DRAINAGE. BACKFILL SOIL SHALL BE ADDED TO THE BOTTOM AND CONSOLIDATED BUT NOT COMPAKTED SO THE ROOT BALL WILL NOT SETTLE.

ii. PLANTING HOLES FOR CONTAINER GROWN TREES SHALL BE NO DEEPER THAN THE ROOT BALL. IF THE PLANTING HOLE IS INITIALLY DUG TOO DEEP SOIL MUST BE ADDED TO THE BOTTOM AND FIRMED SO THE ROOT BALL WILL NOT SETTLE.

iii. ALL DEBRIS, WEEDS AND GRASS SHALL BE REMOVED FROM THE PLANTING SITE. TURF REMOVED TO CREATE THE PLANTING HOLE SHALL NOT BE BACKFILLED INTO THE PLANTING HOLE.

iv. ALL NURSERY IDENTIFICATION TAGS SHALL BE REMOVED FROM THE TREE.

d) SLOW -RELEASE FERTILISER TABLETS SHALL BE INSTALLED AT THE TIME OF PLANTING.

e) TREES SHALL BE STAKED WITH TWO ROUGH SAWN PINE H4 TREATED OR HARDWOOD STAKES WITH AT LEAST ONE THIRD OF THEIR LENGTH (600MM) IN THE GROUND AND AT LEAST 1.0M EXPOSED MINIMUM:

i. TWO FLEXIBLE BIODEGRADABLE TIES PER STAKE SHALL BE ATTACHED. TIES SHALL BE TENSIONED TO AVOID CHAFING OF THE TREE AGAINST THE STAKES BUT WITH ENOUGH PLAY FOR THE TREE TO MOVE IN THE WIND.

ii. ALL TIES SHALL BE FIXED TO THE STAKES AND SHALL BE POSITIONED NO MORE THAN ONE THIRD OF THE HEIGHT OF THE TREE ON THE STAKE.

iii. ALL STAKING SHALL BE PARALLEL WITH THE ROAD KERB FOR STREET TREES.

iv. STAKES SHALL BE INSERTED TO AVOID HITTING THE ROOT BALL.

v. SOME NURSERY-SUPPLIED TREES ARE PROVIDED WITH A STAKE ATTACHED, USUALLY DIRECTLY AGAINST THE MAIN STEM. THIS STAKE IS TO BE REMOVED AND REPLACED ACCORDING TO THIS SPECIFICATION.

f) TREES SHALL BE MULCHED WITH WOODCHIP TO A MINIMUM OF 300MM DIAMETER AND TO 100MM DEPTH.

i. NO MULCH SHALL COVER ANY STEM GRAFT.

COUNCIL RESERVES THE RIGHT TO REMOVE ANY TREE PLANTED WITHIN A STREET BERM BY ANY PERSON(S) THAT HAS NOT BEEN AUTHORISED BY COUNCIL.

ANY STREET TREE THAT IS VANDALISED WILL BE ADDED TO THE TREE PLANTING PROGRAMME LIST TO BE REPLACED THE NEXT WINTER.

STREET TREES WILL NOT BE REPLACED IF VANDALISM HAS OCCURRED MORE THAN TWO TIMES IN THAT CALENDAR YEAR IN THAT PARTICULAR STREET.

STREET TREE MAINTENANCE

TO ENSURE STREET TREES REMAIN FIT FOR PURPOSE BOTH VISUALLY AND IN OVERALL CONDITION SO AS NOT TO POSE A RISK TO PEOPLE OR PROPERTY PARKS AND RESERVES STAFF SHALL MONITOR THE STREET TREES WITHIN THE DISTRICT AND MAINTAIN A DATABASE OF STREET TREE MAINTENANCE WORKS REQUIRED, AND WITH THE PARKS AND RESERVES MANAGER'S APPROVAL IMPLEMENT A PROGRAMME OF STREET TREE MAINTENANCE FOR EACH YEAR.

MAINTENANCE WORKS REQUIRED FOR STREET TREES WILL BE DETERMINED BY COUNCIL'S PARKS AND RESERVES STAFF THROUGH CONDUCTING TREE INSPECTIONS, ENGAGING ARBORISTS TO UNDERTAKE ASSESSMENTS AND PROVIDING REPORTS, IDENTIFYING ANY MAINTENANCE WORKS NEEDED IN THE NORMAL COURSE OF THEIR DUTIES AND THROUGH INVESTIGATING STREET TREE RELATED SERVICE REQUESTS FROM MEMBERS OF THE PUBLIC.

MINOR STREET TREE MAINTENANCE WORK SHALL BE CARRIED OUT BY THE COUNCIL'S OPEN SPACE MAINTENANCE CONTRACTOR (WHO MUST BE AN APPROVED CONTRACTOR UNDER ONE OF THE HEALTH AND SAFETY PRE-QUALIFICATION SCHEMES ACCEPTED BY COUNCIL) AND SHALL INCLUDE:

a) CONTROL OF EPICORMIC GROWTH

b) REMOVAL OF BROKEN MINOR BRANCHES

c) REPLACEMENT OF BROKEN STAKES AND REMOVAL OF STAKES NO LONGER REQUIRED

d) REMOVAL OF LOOSE BRANCHES FROM AROUND STREET TREES

e) FORMATIVE PRUNING OF JUVENILE TREES

THE FOLLOWING WORKS WILL BE CARRIED OUT BY AN ARBORCULTURAL CONTRACTOR WHO SHALL BE AN APPROVED CONTRACTOR UNDER ONE OF THE HEALTH AND SAFETY PRE-QUALIFICATION SCHEMES ACCEPTED BY COUNCIL (WHICH MAY INCLUDE THE CURRENT OPEN SPACE MAINTENANCE CONTRACTOR) AS ARRANGED BY THE PARKS AND RESERVES MANAGER OR PARKS AND RESERVES OFFICERS:

a) CROWN LIFTING

i. CROWN LIFTING IS THE REMOVAL OF THE LOWEST BRANCHES. THE ACTUAL CLEARANCE HEIGHT ACHIEVED WILL VARY WITH INDIVIDUAL TREES, DEPENDING UPON THEIR AGE, SIZE, FORM AND HABIT, AND WITH CONSIDERATION OF ISSUES IDENTIFIED VIA SERVICE REQUESTS RECEIVED FROM RESIDENTS OR MEMBERS OF THE PUBLIC AT LARGE. THE NATURAL SHAPE OF THE TREE SHOULD BE PRESERVED AS MUCH AS POSSIBLE.

ii. FOR YOUNG TREES, TO MINIMISE STRESS ON TRUNKS AND TO DEVELOP OR MAINTAIN GOOD TRUNK TAPER, AT LEAST ONE-HALF OF THE FOLIAGE DISTRIBUTION SHOULD BE RETAINED ON BRANCHES THAT ARISE IN THE LOWER TWO-THIRDS OF THE TRUNK.

iii. CROWN LIFTING OF YOUNG TREES SHOULD NOT EXCEED MORE THAN ONE THIRD OF THE TOTAL HEIGHT OF THE TREE, UNLESS OTHERWISE SPECIFIED BY PARKS AND RESERVES STAFF.

iv. FOR SEMI-MATURE AND MATURE TREES CROWN LIFTING AND LATERAL BRANCH REDUCTIONS SHALL BE CARRIED OUT TO RETAIN NATURAL CROWN SHAPES. IN MANY CASES THESE CLEARANCES SHALL BE 2.5M TO 3.0M (MINIMUM ABOVE FOOTPATHS AND 5.0M (MINIMUM RANGE) ABOVE CARRIAGeways. THIS SHOULD BE ACHIEVED BY THE REMOVAL OF ONLY THOSE PARTS OF THE BRANCH WHICH EXTEND BELOW THE DESIRED CLEAR HEIGHT. ENTIRE BRANCHES MAY REQUIRE REMOVAL AS DIRECTED BY PARKS AND RESERVES STAFF.

b) CROWN REDUCTION

i. REDUCTION PRUNING IS USUALLY CARRIED OUT IN CONJUNCTION WITH POWER LINE CLEARANCE PRUNING AND IS NOT A RECOMMENDED PRACTICE FOR NORMAL TREE MAINTENANCE, UNLESS OTHERWISE SPECIFIED BY PARKS AND RESERVES STAFF.

ii. CARE SHALL BE TAKEN TO AVOID PRODUCING A 'TOPPED' OR 'LOPPED TREE' APPEARANCE. THE NATURAL SHAPE OF THE TREE SHALL BE PRESERVED AS MUCH AS POSSIBLE, UNLESS OTHERWISE SPECIFIED BY PARKS AND RESERVES STAFF.

c) CROWN THINNING

i. CROWN THINNING IS CLEANING OUT WITH THE ADDITIONAL REMOVAL OF SECONDARY HEALTHY AND SOUND BRANCHES TO PRODUCE AN EVEN DENSITY OF FOLIAGE AND A WELL-SPACED AND BALANCED BRANCH STRUCTURE.

ii. CROWN THINNING MAY BE CARRIED OUT TO LESSEN WIND RESISTANCE, TO REDUCE THE WEIGHT OF LIMBS, TO INCREASE LIGHT PENETRATION AND AIR MOVEMENT THROUGH THE CROWN AND TO ASSIST IN LESSENING THE AMOUNT OF EXCESSIVE LEAF FALL, SEED CAPSULES OR FRUIT. THE PERCENTAGE AREA OF THINNING IS VARIABLE, DEPENDING UPON THE AGE, SIZE, FORM AND GROWTH HABIT OF THE TREE.

iii. THE BRANCH VOLUME AND LEAF AREA REMOVED SHALL NOT EXCEED 20% UNLESS OTHERWISE SPECIFIED BY THE PARKS AND RESERVES STAFF.

d) FOLIAGE CLEARING

i. TREES LOCATED NEARBY STREETLIGHTS SHALL HAVE ANY FOLIAGE THAT IS OBSTRUCTING FULL INFLORESCENCE PRUNED BACK ACCORDINGLY.

f) DEAD WOODING

i. DEAD WOODING CONSISTS OF THE REMOVAL OF DEAD, DISEASED, DYING, DEFECTIVE, SUPPRESSED AND CONFLICTING BRANCHES.

ii. DEAD WOODING SHALL INCLUDE THE REMOVAL OF FOREIGN OBJECTS AND PLANT MATTER DEEMED TO BE DETRIMENTAL TO THE TREE, WHEN THIS CAN BE DONE WITHOUT INFILCTING UNDUE DAMAGE TO THE TREE AND AS SPECIFIED BY THE PARKS AND RESERVES STAFF.

iii. THE EXTENT OF DEAD WOODING AND THE DIAMETER SIZE OF DEAD WOOD TO BE REMOVED SHALL BE DETERMINED ON A SITE-BY-SITE BASIS, AS SPECIFIED BY THE PARKS AND RESERVES STAFF.

g) REMEDIAL PRUNING

i. REMEDIAL PRUNING INVOLVES THE REMOVAL OF HAZARDOUS, DAMAGED, DISEASED OR POORLY PRUNED BRANCHES BACK TO UNDAMAGED OR HEALTHY TISSUE TO ENSURE PUBLIC SAFETY AND TO IMPROVE THE OVERALL APPEARANCE OF THE TREE.

ii. HAZARDOUS BRANCHES SHALL BE REMOVED AS SOON AS POSSIBLE TO ENSURE PUBLIC SAFETY.

iii. ALL PRUNING SHALL BE DONE TO ACHIEVE NATURAL TARGET PRUNING, WHICH IS THE REMOVAL OF A BRANCH, STEM OR STUB IN SUCH A WAY THAT A FINAL CUT IS MADE AS CLOSE AS POSSIBLE TO THE BRANCH COLLAR WITHOUT CUTTING INTO THE BRANCH COLLAR OR LEAVING A PROTRUDING STUB. THE AIM IS TO PREVENT DAMAGE TO THE REMAINING BRANCH OR TRUNK TISSUE.

CONSIDERATION SHALL ALWAYS BE GIVEN TO THE SPECIES, HEALTH, AGE, CONDITION AND LOCATION OF THE TREE, AS WELL AS THE REASON FOR PRUNING THE TREE. CARE SHALL BE TAKEN TO AVOID EXCESSIVE PRUNING.

PRUNING SHOULD ALLOW FOR THE NATURAL DISTRIBUTION OF FOLIAGE AND WEIGHT ALONG BRANCHES AND BRANCH ENDS ACCORDING TO TREE SPECIES AND STAGES OF Maturity.

PROTECTION OF EXISTING STREET TREES

a) ROOT PROTECTION ZONE

THE MINIMUM AREA REQUIRED TO ENSURE THAT A TREE'S HEALTH AND STABILITY IS SAFEGUARDED, WILL BE CALCULATED USING THE FOLLOWING TABLE:

ROOT PROTECTION DISTANCES TREE AGE VIGOUR / METRES

i. YOUNG TREES (WHERE THE AGE OF THE TREE IS LESS THAN 20% OF LIFE EXPECTANCY): GOOD VIGOUR 6 X DBH*

POOR VIGOUR 9 X DBH

ii. MATURE TREES (WHERE THE AGE OF THE TREE IS BETWEEN 20% AND 80% OF LIFE EXPECTANCY): GOOD VIGOUR 9 X DBH

POOR VIGOUR 12 X DBH

iii. OVER MATURE TREES (WHERE THE AGE OF TREE IS GREATER THAN 80% OF LIFE EXPECTANCY): GOOD VIGOUR 12 X DBH

POOR VIGOUR 15 X DBH

* DBH MEANS DIAMETER AT BREAST HEIGHT WHICH IN NZ IS DIAMETER AT 1.4M HIGH (THE DIAMETER OF THE STEM 1.4M ABOVE GROUND LEVEL).

b) BELOW GROUND WORKS

IF INSTALLATION IS REQUIRED UNDER EXISTING TREES AND VEGETATION, THEN TRENCHLESS TECHNOLOGY SHOULD BE CONSIDERED. IF THIS IS NOT PRACTICABLE, ADVICE FROM A QUALIFIED ARBORIST IS REQUIRED TO MINIMISE DAMAGE TO THE VEGETATION.

NO WORKS ARE TO COMMENCE WITHIN 30M OF HISTORIC/PROTECTED OR NOTABLE TREES WITHOUT WRITTEN APPROVAL FROM COUNCIL'S PARKS STAFF. COUNCIL MAY REQUIRE THAT AN ARBORIST MONITOR WORKS IN OR AROUND THESE TREES.

c) ASSESSMENT PRIOR TO WORKS

PRIOR TO UNDERTAKING ANY WORK WITHIN THE DRIP LINE OF RETAINED VEGETATION AN ON-SITE ASSESSMENT OF THE WORK PROPOSED SHALL BE UNDERTAKEN BY AN ARBORIST APPOINTED BY THE PARKS AND RESERVES MANAGER AND THOSE AREAS WHERE SUPERVISION BY THE ARBORIST IS NECESSARY.

WHERE HEAVY MACHINERY WOULD BE OPERATED, DRIVEN OR SITED WITHIN THE DRIP LINE OF ANY RETAINED TREE TEMPORARY PROTECTIVE FENCES SHALL BE ERECTED BETWEEN THE TREE AND THE WORK AREA SO AS TO PROTECT THE TREE FROM DAMAGE. THE POSITION AND COMPOSITION OF THE PROTECTIVE FENCES SHALL BE ESTABLISHED PRIOR TO WORKS COMMENCING, AND ONCE ERECTED, APPROVED BY THE ARBORIST PRIOR TO THE COMMENCEMENT OF ANY SITE CONSTRUCTION WORKS. THE TEMPORARY PROTECTIVE FENCES SHALL BE STRONG AND APPROPRIATE TO THE DEGREE OF CONSTRUCTION WORKS TAKING PLACE ON THE SITE. THE PROTECTIVE FENCES SHALL BE A SOLID BARRIER WHICH CANNOT EASILY BE PICKED UP AND MOVED. THE PROTECTIVE FENCE SHALL BE AT LEAST 1.5M HIGH.

NO WORKS, STORAGE OF MATERIALS, CEMENT/CONCRETE WASHINGS AND LEACHING OF CHEMICALS, TRENCHING OR ALTERATION OF SOIL GRADE SHALL OCCUR WITHIN THOSE AREAS DEMARCATED BY A TEMPORARY PROTECTIVE FENCE. THE TEMPORARY PROTECTIVE FENCES SHALL REMAIN IN PLACE THROUGHOUT THE DURATION OF THE CONSTRUCTION WORKS. THE POSITION OF THE PROTECTIVE FENCE SHALL NOT BE ALTERED WITHOUT THE PRIOR CONSENT OF THE ARBORIST.

d) DURING WORKS

WITHIN THE ROOT ZONE OF RETAINED TREES:

i. THE REMOVAL OF ANY EXISTING FOOTPATH, KERB AND CHANNELS, WHEN WITHIN THE ROOT ZONE OF RETAINED TREES SHALL BE CAREFULLY UNDERTAKEN SO AS TO CAUSE NO MORE THAN MINOR DAMAGE TO THE RETAINED TREES.

ii. ALL ROOTS OF GREATER THAN 35MM IN DIAMETER SHALL BE CAREFULLY WORKED AROUND AND PROTECTED. NO SUCH ROOTS SHALL BE REMOVED, EXCEPT:

i. WHERE NO PRACTICABLE ALTERNATIVE TO REMOVING THE ROOT EXISTS AND;

ii. WHERE THIS WOULD HAVE A NO MORE THAN MINOR DETRIMENTAL EFFECT ON THE TREE AND THIS IS THE SUPPORTED PROFESSIONAL OPINION OF THE ARBORIST.

c) ANY SUCH REMOVAL SHALL BE UNDERTAKEN BY THE ARBORIST.

d) EXPOSED ROOTS OF GREATER THAN 50MM SHALL BE COVERED WITH 50MM OF SAND AND ROOT ZONE AREAS SHALL BE IMMEDIATELY COVERED WITH A SUITABLE PERMEABLE GEOTEXTILE FABRIC IMMEDIATELY AFTER REMOVAL OF EXISTING CONCRETE.

e) PRIOR TO LAYING OF BASE COURSE, THE UNDERLYING ROOTS SHALL BE PROTECTED BY LAYING A SUITABLE PERMEABLE GEOTEXTILE FABRIC OVER THE SOIL SURFACE.

f) THERE SHALL BE NO POSITIONING (SITTING OR DRIVING THROUGH) OF HEAVY MACHINERY UNLESS THIS IS ON AN EXISTING HARD SURFACE (CONCRETE OR PAVED) OR TEMPORARY HARD SURFACE.

g) THE TEMPORARY HARD SURFACE SHALL BE CONSTRUCTED BY LAYING GEOTECH MATTING ON THE SURFACE, 100MM WEED FREE MULCH OR SIMILAR SOFT MATERIAL ON A HARD SURFACE PLACED ON THE SOFT MATERIAL, SUCH AS A SHEET OF PLY BOARD.

h) ALL ROOTS THAT ARE SEVERED SHALL BE PRUNED CLEANLY BACK TO THE SURFACE OF THE EXCAVATION USING SHARP HANSDAW OR SECATEARS. ALL EXPOSED OR SEVERED ROOTS SHALL BE KEPT DAMP (USING HESSIAN CLOTH OR SIMILAR) UNTIL THE EXCAVATED AREA IS BACKFILLED.

i) NO DAMAGE SHALL BE DONE TO THE TRUNK AND ABOVE GROUND PARTS OF ANY TREE THAT IS TO BE RETAINED.

j) ANY PRUNING REQUIRED TO FACILITATE THE WORKS TO RETAINED TREES SHALL BE UNDERTAKEN BY AN ARBORIST.

NOTES:

- SPACE PLANTS EVENLY.

- PLANT IMAGES INDICATIVE ONLY.

- WIDTH AND HEIGHT ARE NOTED AS THE AVERAGE 10 YEAR SIZE. GROWTH AND MATURE SIZE INFORMATION ARE GIVEN IN GOOD FAITH BUT ARE SUBJECT TO NATURAL VARIABLES BEYOND OUR CONTROL.

- EXPERIENCED LANDSCAPER TO PLACE ALL PLANTS AND SELECT THE GENUS (WHERE NOT SPECIFICALLY NOTED) OF ALL PLANTS APPROPRIATE FOR THE SPECIFIC SITE CONDITIONS.

- OWNERS TO MAINTAIN PLANTS TO ENSURE THAT THEY DO NOT OVER HANG AND BECOME A TRIP HAZARD ON PATHS OR AN OVERHEAD HAZARD ON PATHS.

KEY:



PLANT ATTRIBUTES:
 - EVERGREEN
 - NZ NATIVES
 - 3 LITRE MINIMUM POT SIZE
 - TOLERATES WET AND DRY CONDITIONS
 - PLANT SPECIES IN CLUSTERS OF 3-5.
 - REFER DOCUMENTATION BY OTHERS FOR
 RAIN GARDEN CONSTRUCTION/ DRAINAGE/
 SOIL PREPARATION ETC.

RAIN GARDEN PLANT SELECTION OPTIONS:



**APODASMIA
SIMILIS**
 - OIOI
 - 1X1M



FINICA NODOSA
 - WIWI/ KNOBBY CLUB
 RUSH OR
 - 0.5X0.7M



JUNCUS PALLIDUS
 WIWI / GIANT RUSH OR
 - 1X1.5M

NOTES:

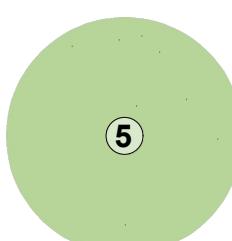
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- REFER DOCUMENTATION BY OTHERS FOR RAIN GARDEN CONSTRUCTION/ DRAINAGE/ SOIL PREPARATION ETC.

RAIN GARDEN REFERENCE:	RAIN GARDEN AREA:	NUMBER OF RAIN GARDEN PLANTS (4 PLANTS PER M ²)
RAIN GARDEN RG-1	8.2M ²	33
RAIN GARDEN RG-2	5.2M ²	21
RAIN GARDEN RG-3	5.2M ²	21
RAIN GARDEN RG-4	5.2M ²	21

KEY	LOT 400 DRAINAGE RESERVE PLANTING TYPE:	PLANTING TYPE AREA:	NUMBER OF PLANTS (1 PLANTS PER M ²)
	TYPE 5 SLOPED BANK PLANTING	479M ²	X479
	TYPE 6 LITTORAL EDGES/ SLOPED BANK	478M ²	X478
	TYPE 7 WETLAND SHALLOW WATER SECTION	131.7M ²	X132
	TYPE 8 WETLAND MEDIUM WATER SECTION	140M ²	X140
	TYPE 8 WETLAND DEEP WATER SECTION	27.3M ²	X27



FIBERGUARD SET
BIODEGRADABLE PLANT GUARD
 - SUPPLY WITH 2X BAMBOO STAKES AND
 SMALL SQUARE OF COCONUT FIBRE
 WEEDMAT



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 WETLAND CONSTRUCTION/ DRAINAGE/ SOIL
 PREPARATION ETC.
 - ALLOW TO SUPPLY EACH PLANT WITH PLANT
 GUARD AS PER SPECIFICATION.



**COPROSMA
PROPINQUA**
 - MINGIMINGI
 - 2.5X5M



**PHORMIUM TENAX
'PURPUREA'**
 - 2X2M



OLEARIA SOLANDRI
 - COASTAL SHRUB DAISY
 - 2X4M



**PLAGIANTHUS
DIVARICATUS**
 - SWAMP
 RIBBONWOOD
 - 2X2M

**HO
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**TOKOROA EAST SCHOOL SITE
MAIN ROAD, TOKOROA**

**FOR COUNCIL
LANDSCAPE PLAN**

REV: 2 DATE: 03/02/2025 SHEET No.

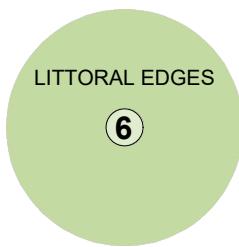
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SCALES (A3):

-

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KEY:



PLANT ATTRIBUTES:
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 - TOLERATES WET AND DRY CONDITIONS
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 - ALLOW TO SUPPLY EACH PLANT WITH PLANT GUARD AS PER SPECIFICATION.

TYPE 6 LITTORAL EDGES/ SLOPED BANK PLANT SELECTION:



CAREX SECTA
 - MAKURA SEDGE
 OR CAREX LESSONIANA
 - 1.5X1.5M



CAREX LESSONIANA
 - 2X1M



CYPERUS USTULATUS
 GIANT UMBRELLA SEDGE/
 COASTAL CUTTY GRASS
 - 1X1M



JUNCUS PALLIDUS
 WIWI / GIANT RUSH
 - 1X1.5M

NOTES:

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TYPE 7 SHALLOW MARSH PLANT SELECTION:



ELEOCHARIS
 ACUTA
 - COMMON SPIKE RUSH
 - 0.6X0.6M



MACHAERINA SINCLAIRII
 - PEPEPE
 - 1.5X1.5M



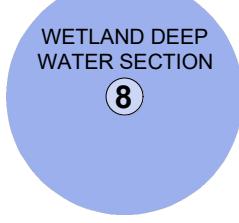
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TYPE 8 WETLAND DEEP & MEDIUM WATER SECTION PLANT SELECTION:



ELEOCHARIS
 SPHAELATA
 - 1X1M

SCHOENOPLECTUS
 TABERNAEMONTANI
 - GREAT BULRUSH
 - 1X2M



PLANT ATTRIBUTES:
 - TREES TO BE 0.8M MIN HIGH AT TIME OF PLANTING, POT SIZE TO SUIT.
 - TREE TO HAVE A SELF-SUPPORTING CENTRAL STEM AND BE DOUBLE STAKED.
 - EVERGREEN
 - NATIVE

TYPE 9 WETLAND AREA SPECIMEN TREE



KAHIKATEA
 -DACRYCARPUS DACRYDIOIDES
 - 4X6M



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TOKOROA EAST SCHOOL SITE
 MAIN ROAD, TOKOROA

FOR COUNCIL
 LANDSCAPE PLAN

REV: 2 DATE: 03/02/2025 SHEET No.

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SCALES (A3):

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