

Sheet list Cover sheet Internal perspective BASIX certificate Subdivision plan Site plan Development parameters Site analysis plan Existing ground floor plan Proposed ground floor plan Front elevation & Rear elevation Side elevations Sections Fence plan, elevation & section Shadow diagram June 21st 9am Shadow diagram June 21st 12pm Shadow diagram June 21st 3pm Site/Waste management plan Erosion & Sediment control Landscape plan Landscape schedule Landscape details Notification plans

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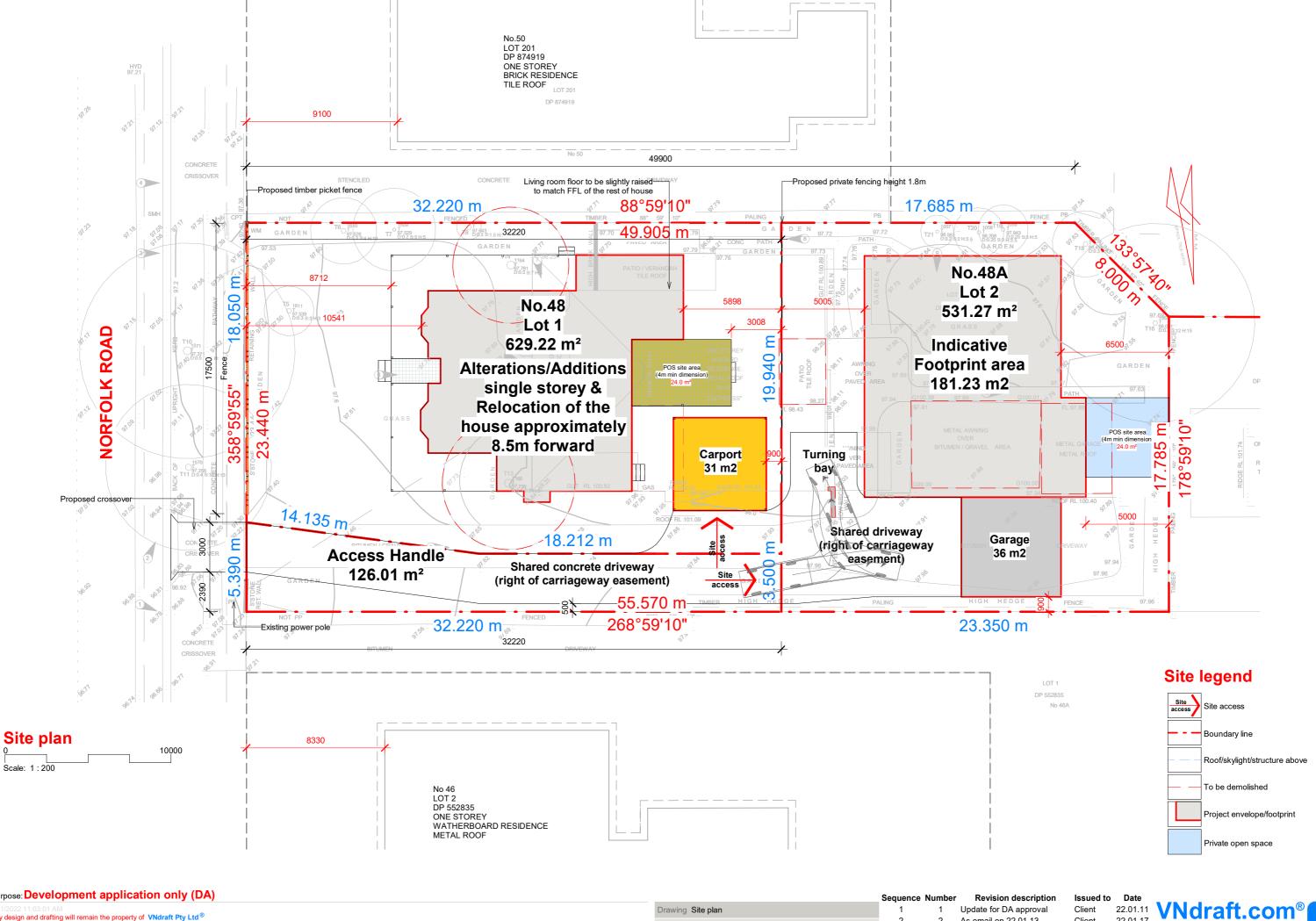
21

Purpose: Development application only (DA)

Project number

888623078

One-stop & Best fee guarantee
24 Second Ave Kingswood NSW 2747
info@vndraft.com 0488880787
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Address 48 Norfolk Rd Epping NSW 2121 Project 888623078 Client/s Min Xiong Sheet 05 As email on 22.01.13

Client









Existing status



Location plan

Rear yard andscapir Ground floor Ground floor 157.7 m² Front yard 181.2 m² andscapii 162.4 m² Carport 31.4 m² Garage 36 m² Access Handle 126 m²



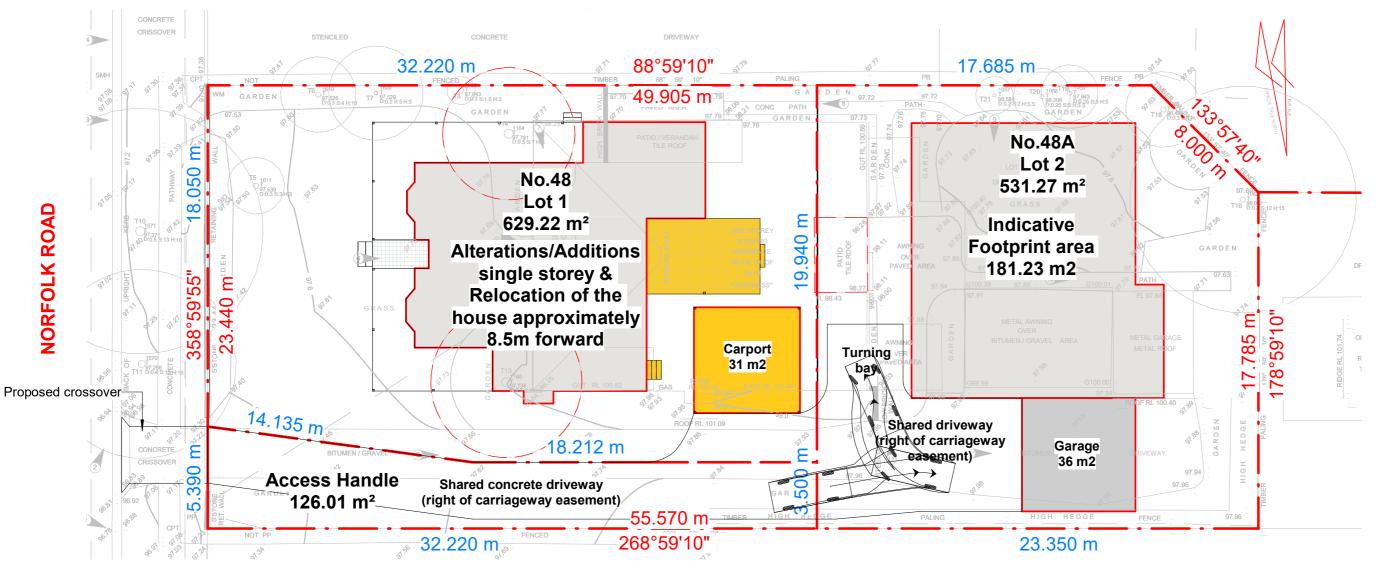
Development parameters

		Existing	Param	neters	eters Compliance		
Site calculations	te calculations Condition/Description		LOT 1	LOT 2	LOT 1	LOT 2	
Site area	n/a	1286.5 m²	629.22 m²	531.27 m²	n/a	n/a	
Ground floor area	n/a	174.6 m²	157.7 m²	181.2 m²	n/a	n/a	
Garage area	n/a	n/a	n/a	36.0 m²	n/a	n/a	
Carport	n/a	n/a	31.4 m²	n/a	n/a	n/a	
Gross floor area	Garage GFA excludes 1 car parking space (18m²) Excludes: Basements, Storage, Vehicle access, Terraces & Balconies with outer walls <1.4m high and Voids	n/a	157.7 m²	199.2 m²	n/a	n/a	
Floor space ratio (FSR)	Ground floor & Garage, Carport, Shed	n/a	25.0%	37.5%	n/a	n/a	
Floor area	Garage GFA excludes 1 car parking space (18m²) Excludes: Basements, Storage, Vehicle access, Terraces & Balconies with outer walls <1.4m high and Voids	n/a	157.7 m²	199.2 m²	380.0 m²	330.0 m²	
Site coverage	Ground floor & Gagare	n/a	25.9%	40.8%	50.0%	50.0%	
Street setback	n/a	Refer to site plan	Refer to site plan	Refer to site plan	4.5m	4.5m	
Rear setback	n/a	Refer to site plan	Refer to site plan	Refer to site plan	3.0m	3.0m	
Side setback	0.9m up to 4.5m	Refer to site plan	Refer to site plan	Refer to site plan	0.9m	0.9m	
Front yard landscaping	Area forward building line	n/a	162.4 m²	65.3 m²	n/a	n/a	
Rear yard landscaping	Area landscaping behind the building line	n/a	169.7 m²	151.1 m²	n/a	n/a	
Total landscaping	Front yard landscaping + Rear yard landscaping	n/a	52.8%	40.7%	30.0%	20.0%	
Private open space	n/a	n/a	24.0 m²	24.0 m²	24.0 m ²	24.0 m ²	

Client

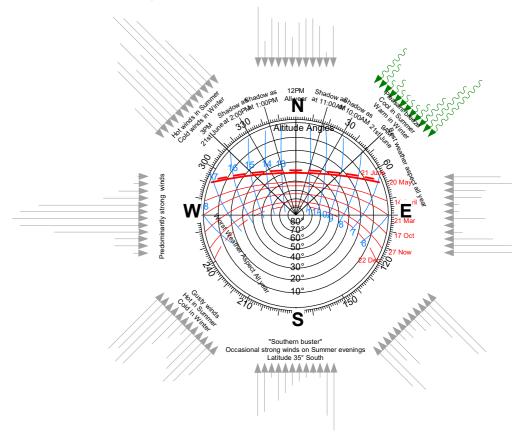
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Climatic site analysis



Note:

- The wind rose shown corresponds with the 12 months in the year
- The lines are read in a clockwise direction
- The length of the line is proportionate to the frequency (% of time) of the wind from that direction in that month
- 9am shown in black & 1pm shown in red • The sun path diagram shown in the centre of the wind rose indicates the path scribed by the sun during different periods of the year
- The hours of the day are shown in blue
 The months of the year are indicated using the red lines
- The concentric circles indicate the angles of the sun
- The Compass is based upon 'True North', from the Map Grid Australia (MGA)
- True North based on survey completed by "surveyor" surveying "date" comments are for Sydney Basin Purpose: Development application only (DA)

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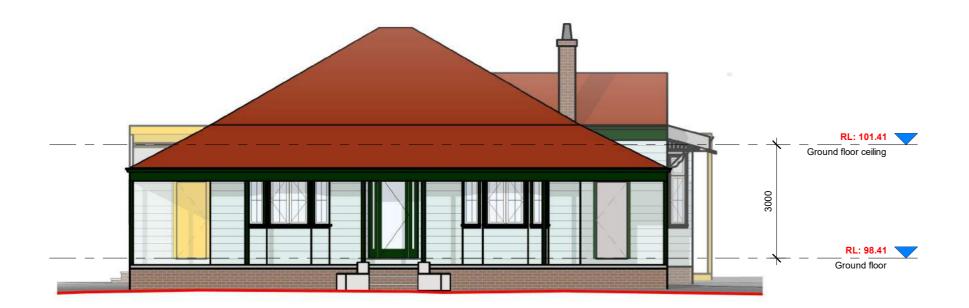
Drawing Site analysis plan Address 48 Norfolk Rd Epping NSW 2121 Project 888623078 Client/s Min Xiong Sheet 07

Revision description Update for DA approval As email on 22.01.13

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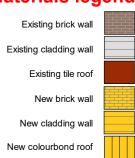
West elavation Scale: 1:100



Exterior finishes schedule

Images	Material	Description
	01	Colorbond tange as selected by owner/or similar material image
	02	Colorbond tange as selected by owner/or similar material image
	03	Pgh balckheath, facebrick/or similar material image
	04	Glass window, door,skylight, railing/or similar material image
	05	Aluminium, cool gray/or similar material image
	06	Spm, translucent/or similar material image

Materials legend



Annotate legend

•	
Reduced level	RL:00
New ground level	NGL:0
New ground line	
Natural ground line	

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5000

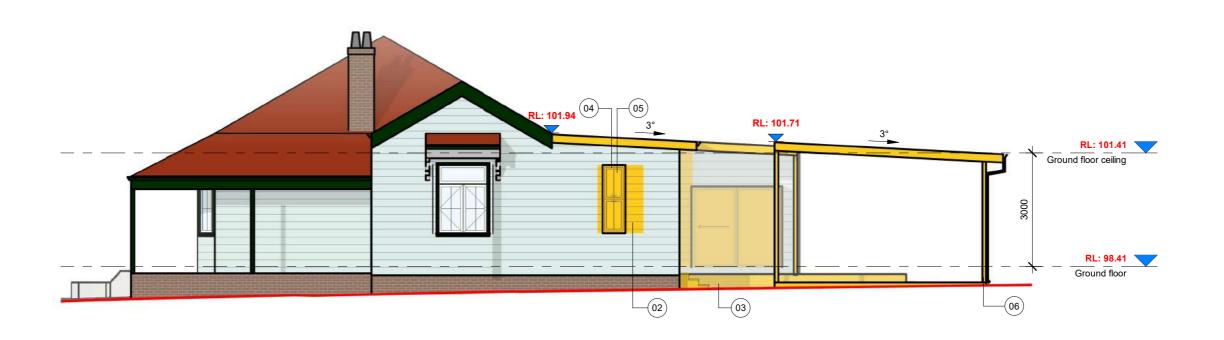
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East elevation

Drawing Front elevation & Rear elevation

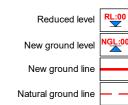


North elevation 5000



Materials legend Existing brick wall Existing cladding wall Existing tile roof New brick wall New cladding wall New colourbond roof

Annotate legend

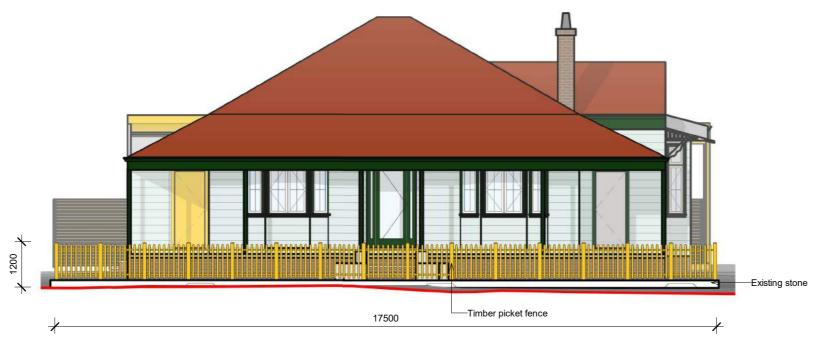


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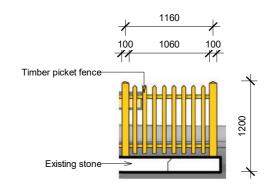
5000

South elevation

Drawing Side elevations

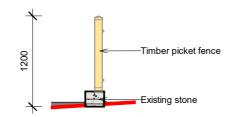


Elevation - Fence (Proposed)



Scale: 1:100







Specification

- 1. These drawings are to be read in conjunction with the architectural drawings, structural drawings, and the specification 2. Prior to commencement of works the contractor shall satisfy himself of the correct location of existing services whether
- indicated or not on the plans. Any damage to existing services shall be rectified at the contractor's expense

 3. Traffic management measures have to be implemented and maintained during construction, all in accordance with Council's requirements. The contractor shall maintain safe pedestrian access along the footpath
- 4. The contractor shall effect temporary drainage measures to avoid localised ponding of surface run-off
- 5. Refer to architect's drawings for all details (levels, grading, etc.) of driveways, concrete and paved areas, and retaining wall types and locations
- 6. Refer to landscape architect's drawings for details and extent of all landscaped areas
- All SWD pipes are UPVC at 1.0% minimum grade
 SWD pits can be pre-cast sized as follows: 450mm sq. up to 600mm deep 600mm sq. up to 1000mm deep
- 9. All pits located in trafficable areas, (ie, driveways) to have medium-duty grated covers suitable for withstanding loads associated with small trucks
- 10. Provide step irons to all pits greater than 1.2m deep
- 11. The contractor shall implement all soil erosion and sediment control measures prior to commencement of works

 12. Topsoil shall be stripped dn stockpile outside hazard areas such as drainage lines. This topsoil is to be respread later on are as to be revegetated
- 13. The contractor shall regularly maintain all sediment and erosion control devices and remove accumulated silt from such devices. All silt removed shall be disposed of as directed by the superintendent. The period for maintaining these devices shall be at least until all disturbed areas are revegetated and further as may be directed by the superintendent or Council 14. The contractor shall maintain dust control until final completion of works

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Drawing Fence plan, elevation & section Address 48 Norfolk Rd Epping NSW 2121 Sequence Number Revision description Update for DA approval As email on 22.01.13

Client Client

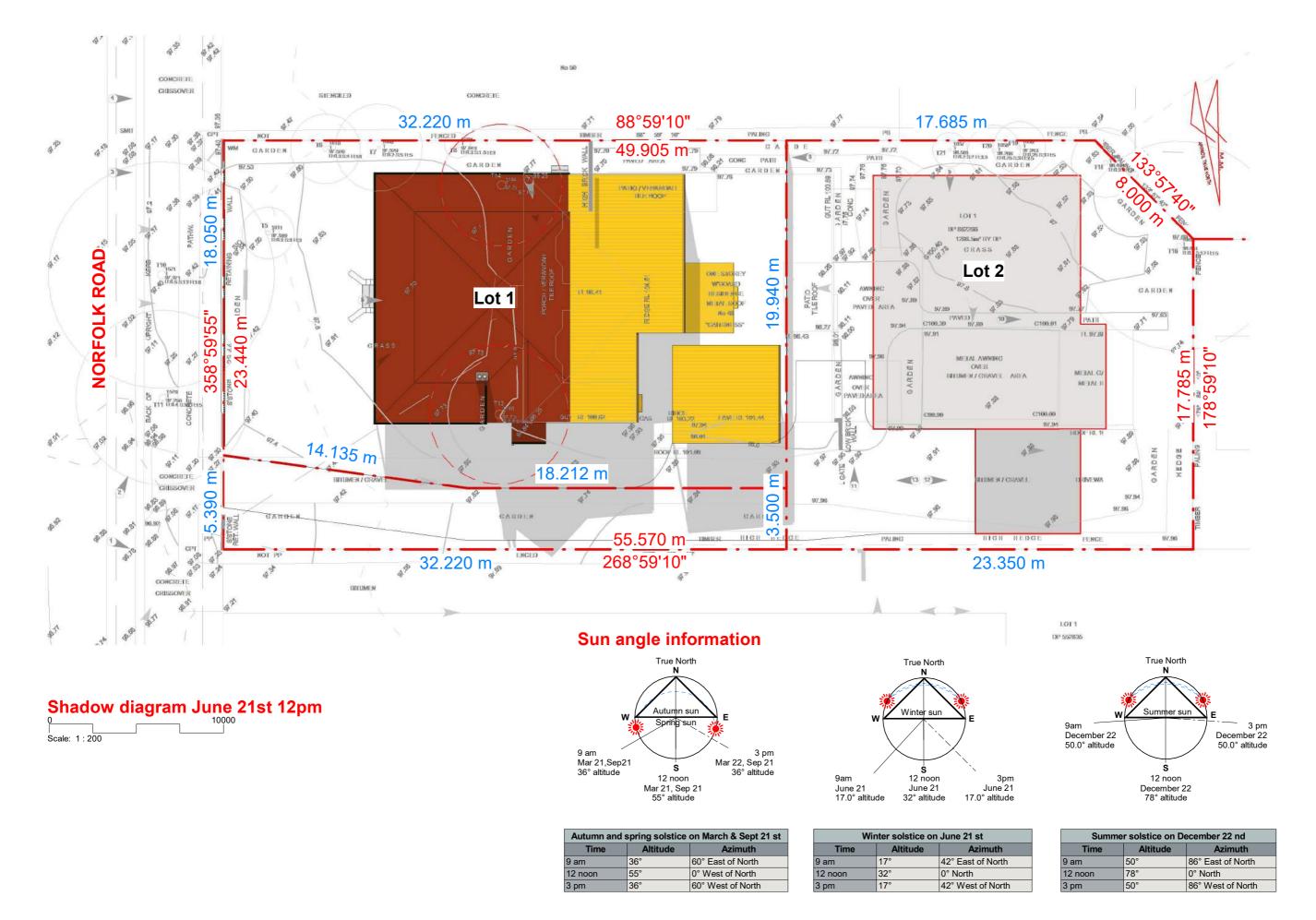
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Drawing Shadow diagram June 21st 9am Address 48 Norfolk Rd Epping NSW 2121 Project 888623078 Client/s Min Xiong Sheet 14 Issued to Date Client Client





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Drawing Shadow diagram June 21st 12pm Address 48 Norfolk Rd Epping NSW 2121 Project 888623078 Client/s Min Xiong Sheet 15

Sequence Number Revision description

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22.01.11 22.01.17





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Drawing Shadow diagram June 21st 3pm Address 48 Norfolk Rd Epping NSW 2121 Project 888623078 Client/s Min Xiong Sheet 16

Revision description Update for DA approval

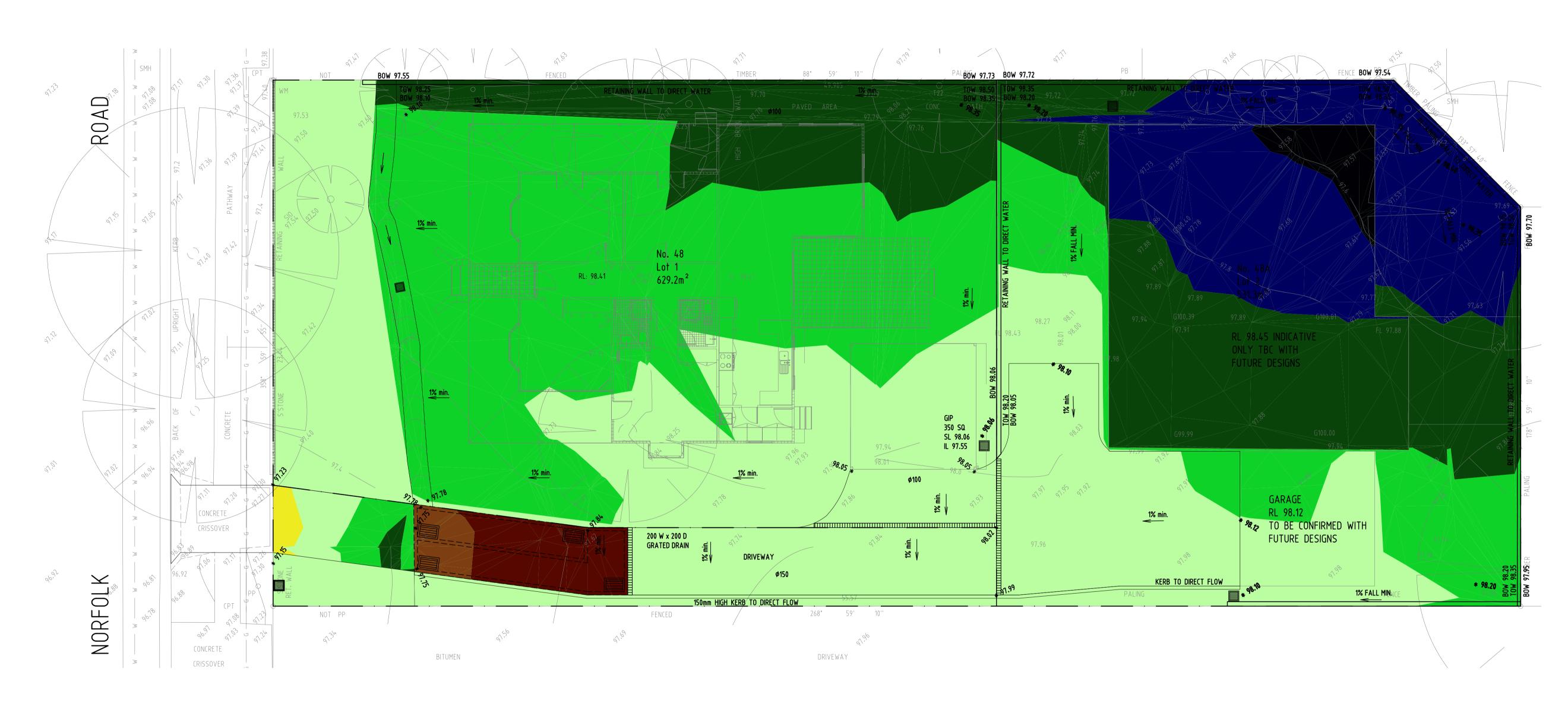
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22.01.11 22.01.17



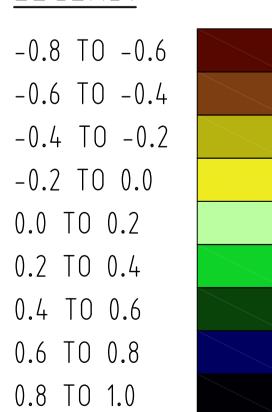




CUT AND FILL PLAN

SCALE: 1:100

LEGEND:



Α	18.01.2022	ISSUED FOR DA			
ISSUES	DATE	AMENDMENT DESCRIPTION	ISSUES	DATE	AMENDMENT DESCRIPTION

NOT FOR CONSTRUCTION



ALLIED CONSULTANTS PTY. LIMITED Civil * Structural * Hydraulic Consulting Engineers

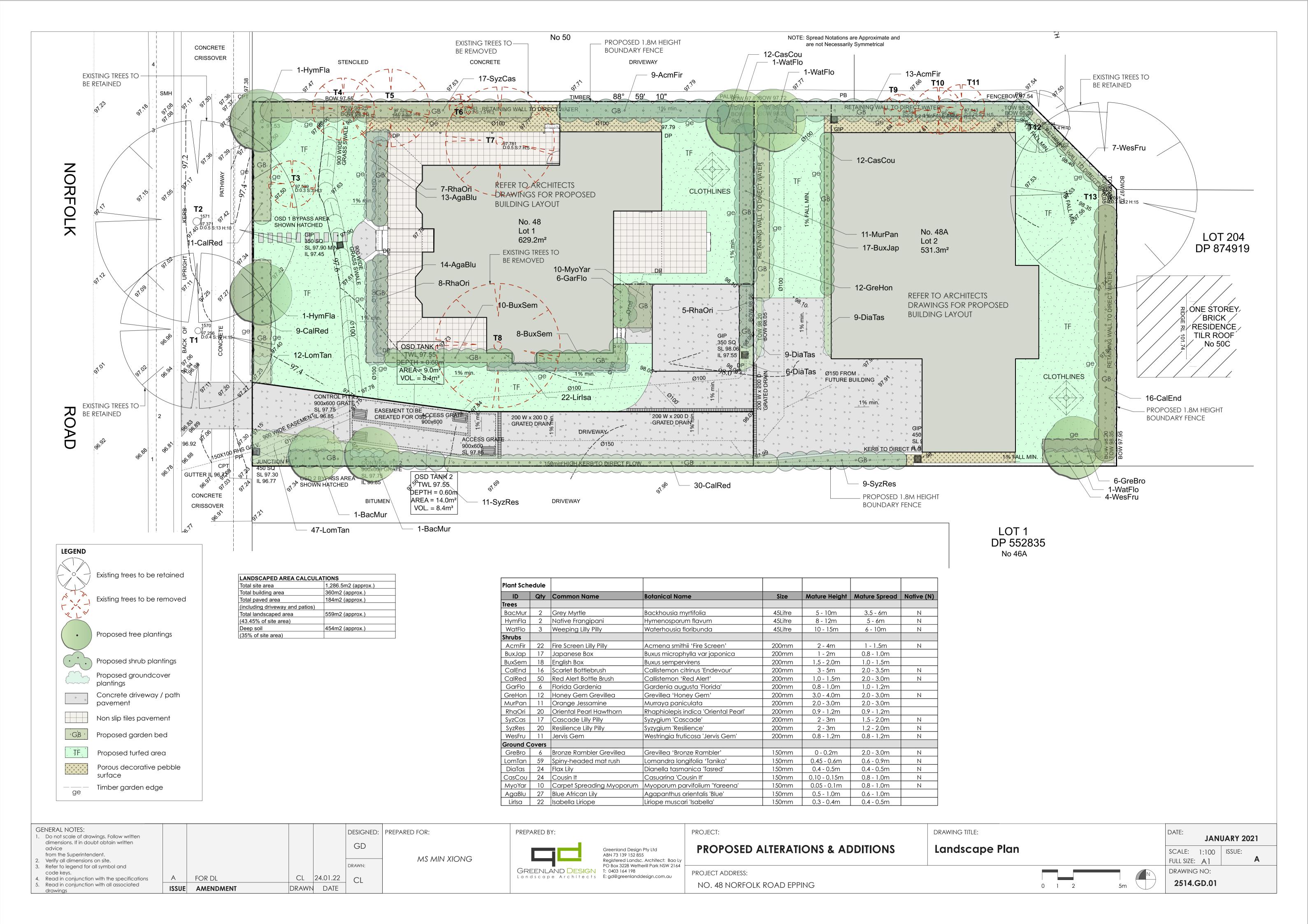
Mobile: 0424 118 883
Email:admin@aconsultants.com.a
www.aconsultants.com.au

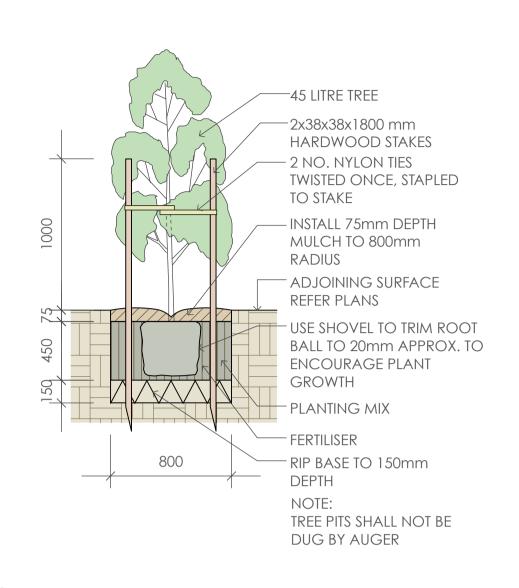
Adress: Suit 9/145-149 Forest Rd Hurstville NSW 2220

PROPOSED SUBDIVISION DEVELOPMENT AT: 48 NORFOLK ROAD, EPPING					CUT AND FILL PLAN
	CIVIL WORKS			AS SHOWN @A1	DRAWING No.:
	DRAWN SY APPROVED AW (B.E. MIEAust CPEng NER)		DATUM:	AHD	48NORF-CF-1

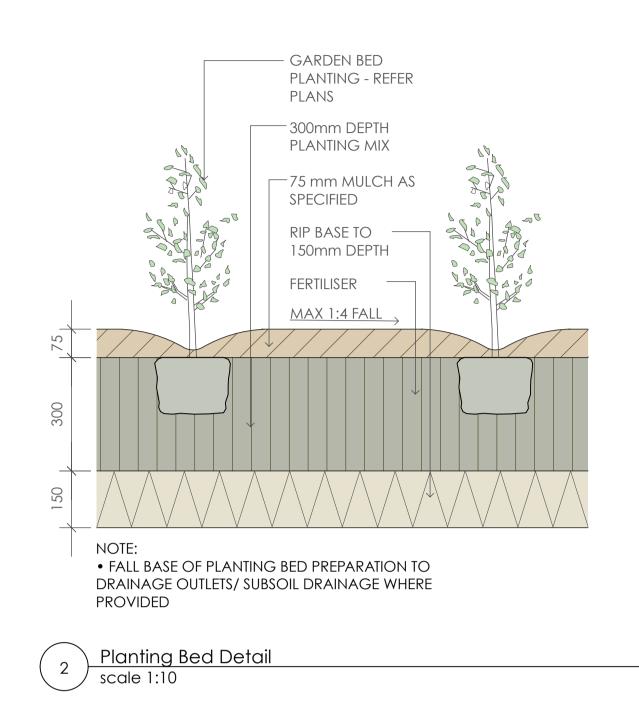
REVISION:

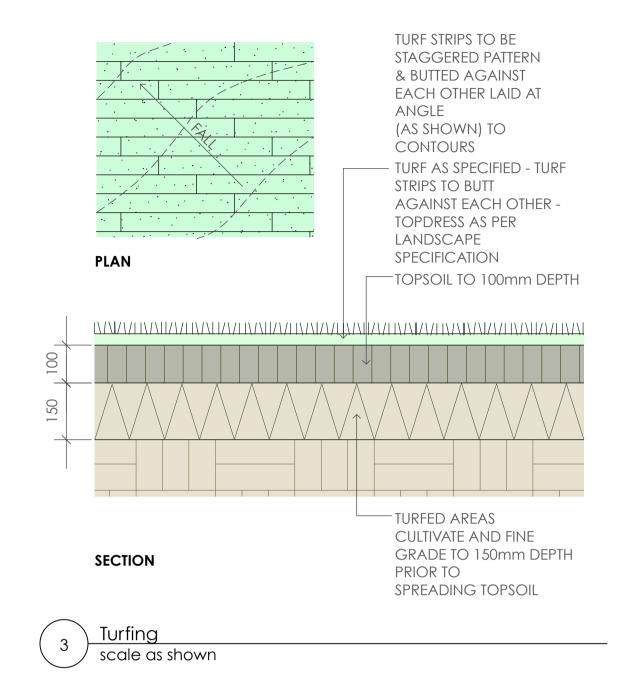
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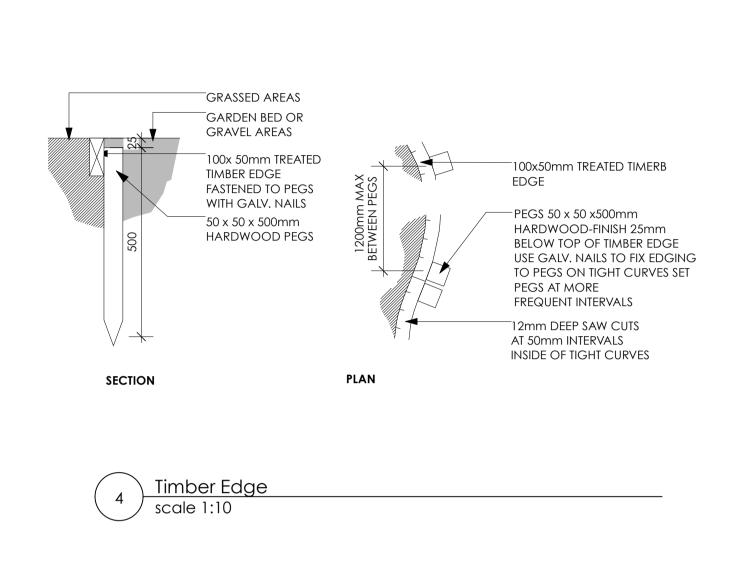




<u>45 Litre Tree Planting</u>







SPECIFICATION NOTES PLANTING MATERIALS

Planting Mix:
Planting mix for tree pit backfill shall be "Organic Garden Mix" consisting of

50% Black Soil 20% Coarse Sand

30% Organic Material

as available from Australian Native Landscapes, Phone: [02] 9450 1444, or approved equivalent. Samples shall be provided to the Superintendent prior to ordering or delivery to site. Any material delivered to site, that is rejected by the Superintendent, shall be removed by the contractor at his own expense. Minimum depths of mix to all planting bed areas is as specified on details.

Mulch:

Mulch to garden bed:

Mulch shall mean hardwood mulch (25mm grade), free from material derived from Privet, Willow, Poplar, Coral trees, or other noxious weeds. Any mulch exceeding the 25mm grade shall be rejected / removed from the site. Graded hardwood mulch to be supplied by Australian Native Landscapes Pty Ltd Phone (02) 9450 1444, or approved equivalent.

Spread mulch so that after settling, it is:

- smooth and evenly graded between design surface levels;
- flush with adjacent finished levels;
- of the required depths (75mm); and
- sloped towards the base of plant stems in plantation beds, but not in contact with the stem (not closer than 50mm in the case of gravel mulches).

 Place after the preparation of the planting bed, planting and all other work.

Place after the preparation of the planting bed, planting and all other work.

Plant Material:

All plant material must be true to the species. No substitutes will be allowed. All

plants shall be free of fungus and insect damage. All plants shall be healthy, well shaped, not soft or force grown and not root bound.

Plants are available from **Andreasens Green** wholesale nursery, contact Darren (02) 8777 4713, email darren@andreasensgreen.com.au or approved equivalent.

All new turfed areas are to be selected weed free Soft Leaf Buffalo. Turf shall be laid neatly butted with staggered joins, flush with adjacent surfaces and have even running falls to all drainage points.

All new turfed area shall have a minimum 150mm depth of weed free top soil, placed and levelled prior to turfing.

PREPARATION AND HARDWORKS

Excavating for Spot Planting

To planting areas, excavate a hole for each plant large enough to provide not less than twice the depth and twice the diameter than the root ball of species to be planted.

Staking

Use durable hardwood, straight, free from knots or twists, pointed at one end. Drive stakes into the ground a minimum one third of their length, avoiding damage to the root system.

• 45 Litre trees in 2 x 38x38x1800mm Hardwood Stake with double Nylon tie TIES: Provide a 50mm wide Nylon webbing tie per stake, fixed securely to the stakes, one tie at half the height of the main stem and the other as necessary to stabilise the plant.

Decorative Pebble

MATERIAL: Decorative pebble shall be Western White pebble, gravel to be of uniform size or graded material in the size 30 - 40mm grade to nominal 75mm thickness as available from Australian Native Landscapes. Ph: (02) 9450 1444.

Timber Edge

MATERIAL: Timber edging shall consist of:

Edging: 100 x 50mm hardwood Pegs: 50 x 50 x 400mm hardwood.

Fastenings: to be 75x3.75mm diam. galvanised nails

INSTALLATION: Setout alignment of timber edges on site for approval of Superintendent. Excavate to approved alignment and place edge band within trench to confirm peg locations. Install pegs and affix timber edge in accordance with details. All timber edging to finish flush with adjoining turf.

MAINTENANCE / PLANT ESTABLISHMENT

Maintenance shall apply to all hard and soft landscape materials installed prior to the "handover" and acceptance by Principles Representative and the Site Superintendent. The maintenance period shall convenience at the granting of practical completion and shall extend for 26 weeks.

Maintenance shall consist of the following works:

- Follow a daily watering programme to be approved by Superintendent. Water all plants individually, twice per week or when necessary to ensure constant plant growth. Water all turf and native grassed areas, twice per week.

- Apply appropriate weed control sprays and hand weed as required to maintain planting areas, native grassing bed areas, turfed areas, paved areas, and tree pits in turf free of weed or rogue grass growth.

Regularly tidy and top up mulch and trim edges to prevent spill over onto paved / grassed areas.

- Spray to control pests and diseases.

- Replace plants, which fail with plants of a similar size and quality as originally specified to approval of Superintendent. Costs of replacement shall be the responsibility of the Contractor. Replacement planting will be undertaken within 2 weeks of identification of dead material or instruction be the Superintendent.

Report any incidence of plants stolen or destroyed by vandalism.Adjust stakes and ties to plants as necessary. Ensure that strangulation of plants

does not occur.

Prune and shape plants as directed or where necessary.Make good any defects or faults arising out of defective workmanship or materials.

- Fertilise lawn areas to maintain healthy growth.

- Make good any erosion or soil subsidence, which may occur including soft areas in

pathways.
- Mow lawn to maintain neat healthy growth.

- A final inspection shall be made by the Superintendent before handover. Any items requiring rectification shall be repaired before the works are finally approved, and retention moneys released.

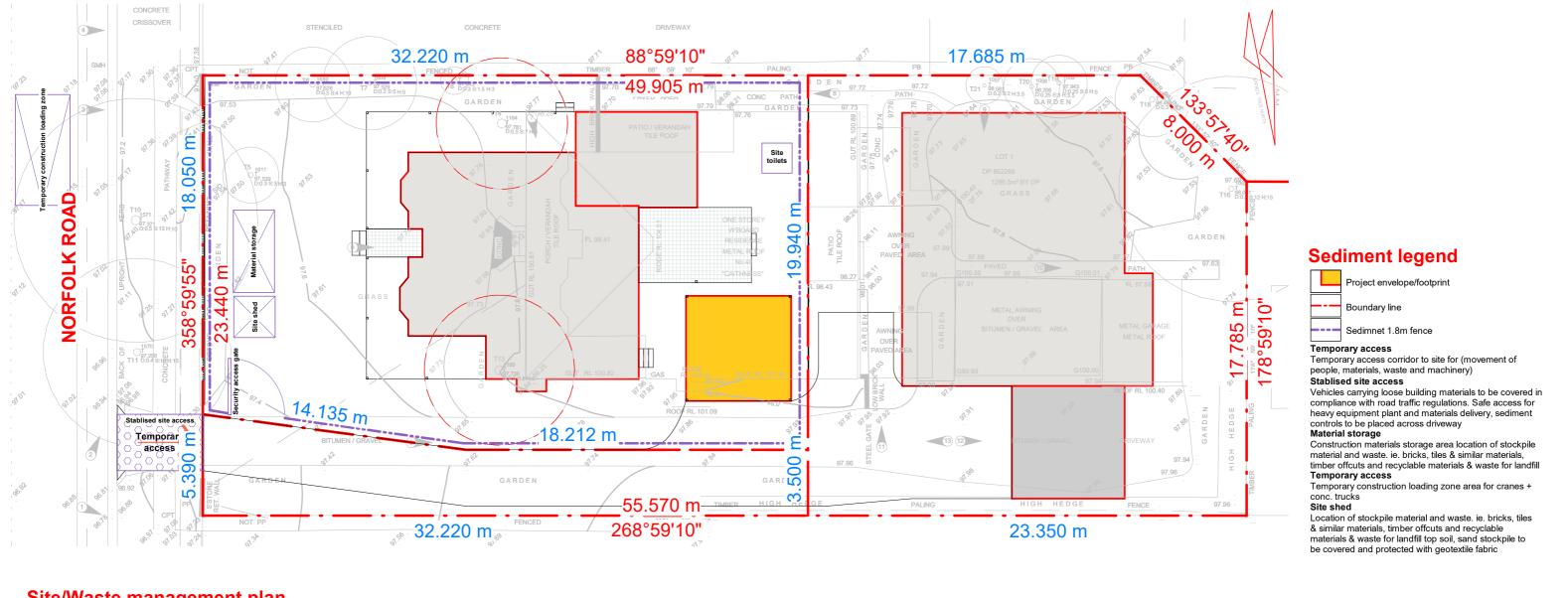
NOTE:

All finished levels are to be verified by Contractor on site.

- All landscape works be in strict accordance with Council's landscape code and

- This plan to be used in conjunction with all other submitted architectural, hydraulics and engineering drawing where applicable.

GENERAL NOTES: DESIGNED: PREPARED FOR: PREPARED BY: PROJECT: DRAWING TITLE: Do not scale of drawings. Follow written **JANUARY 2021** dimensions. If in doubt obtain written GD Landscape Details & Specification PROPOSED ALTERATIONS & ADDITIONS Greenland Design Pty Ltd SCALE: varies | ISSUE: from the Superintendent. ABN 73 139 152 855 MS MIN XIONG Registered Landsc. Architect: Bao Ly FULL SIZE: A 1 Verify all dimensions on site. DRAWN: Refer to legend for all symbol and PO Box 3228 Wetherill Park NSW 2164 GREENLAND DESIGN T: 0403 164 198 DRAWING NO: PROJECT ADDRESS: Landscape Architects E: gd@greenlanddesign.com.au FOR DL CL 24.01.22 Read in conjunction with the specifications CL 2514.GD.02 5. Read in conjunction with all associated NO. 48 NORFOLK ROAD EPPING DRAWN DATE ISSUE AMENDMENT drawings



Site/Waste management plan

Scale: 1:200

Specification

- 1. This plan to be read in conjunction with sediment and erosion. Control details as attached
- 2. The contractor shall implement all soil erosion and sediment. Control measures as necessary and to the satisfaction of Council's approval. All sediment and erosion control devices to be installed and maintained in accordance with standards outlined in NSW department of housing's "managing urban stormwater - soils and constructions"
- 3. Topsoil shall be stripped and stockpiled outside hazard areas such as drainage lines. This topsoil is to be respired and stabilised only, (i.e. all footpaths, batters, site regarding areas, basins and catchdrains). Topsoil shall not be respired on any other areas unless specifically instructed by the superintendent. If they are to remain for longer than one-month stockpiles shall be protected from erosion by covering them with mulch and hydroseeding and, if necessary, by locating banks or drains downstream of a stockpile to retard silt-laden runoff
- 4. The contractor shall regularly maintain all sediment and erosion
- control devices and remove accumulated silt from such devices such that more than 60% of their capacity is lost. All the silt is to be placed outside the limit of works. The period for maintaining these devices shall be at least until all disturbed areas are revegetated and further as may be directed by the superintendent or Council
- 5. Lay turf strip (min 300mm wide) on 100mm topsoil. with 1.0m long returns every 6.0m behind all kerb at the top of all batters and around structures immediately after backfilling or formation. b6 6. The contractor shall grass seed all disturbed areas with an approved mix as soon as practicable after completion of earthworks and regrading
- Vehicular traffic shall be controlled during construction confining access where possible to nominated stabilised access points
- 8. When any devices are to be handed over to Council they shall be b8. in clean and stable condition
- The contractor shall implement dust control by regular wetting down. (but not saturating) disturbed area 10. Provide and maintain silt traps around all surface inlet pits until catchment is revegetated or paved
- 11. Revegetate all trenches immediately upon completion of backfilling
- 12. All drainage pipe inlets to be capped until
- a) Downpipes connected
- b) Pits constructed and protected with silt barrier ba
- 13. Any damage to existing &/or adjoining property &/or services is to be made good with minimal if any inconvenience to all proprietors. If any damage. Method of support of excavation adjacent to adjoining properties to eng's details and it is to be certified by a certifier accredited in civil engineering

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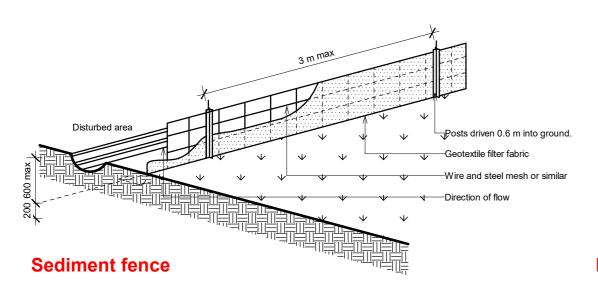
Sequence Number Drawing Site/Waste management plan

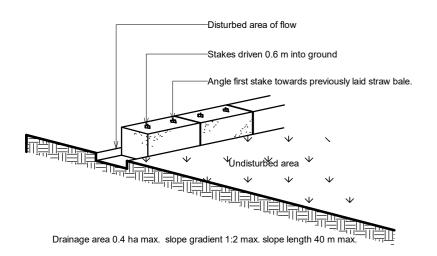
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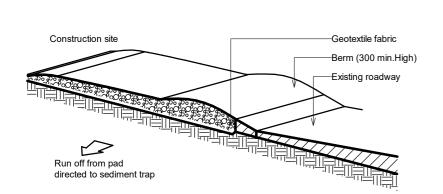
Client Client

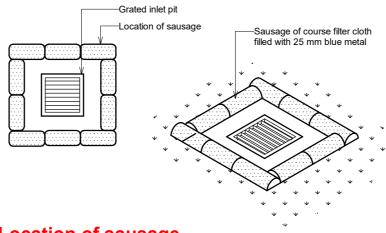
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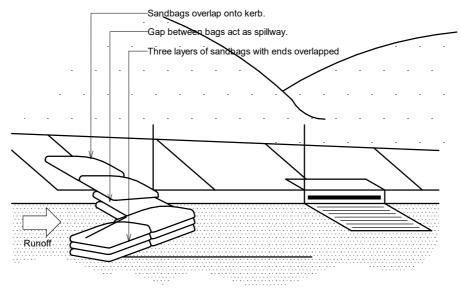


Straw bale sediment filter

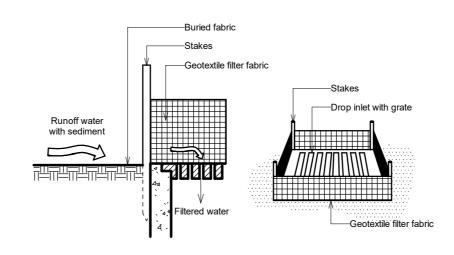




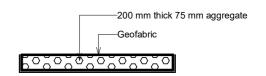
Location of sausage



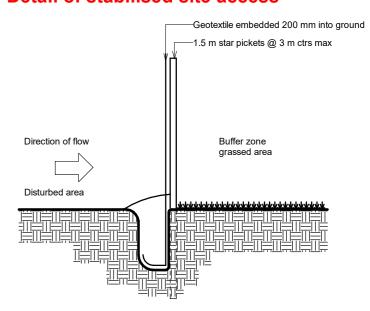
Sandbag kerb inlet sediment trap



Geotextile filter fabric drop inlet sediment trap



Detail of stabilised site access



Geofabric lined silt fence (Structure type A)

Geofabric lined silt fence (Structure type A)

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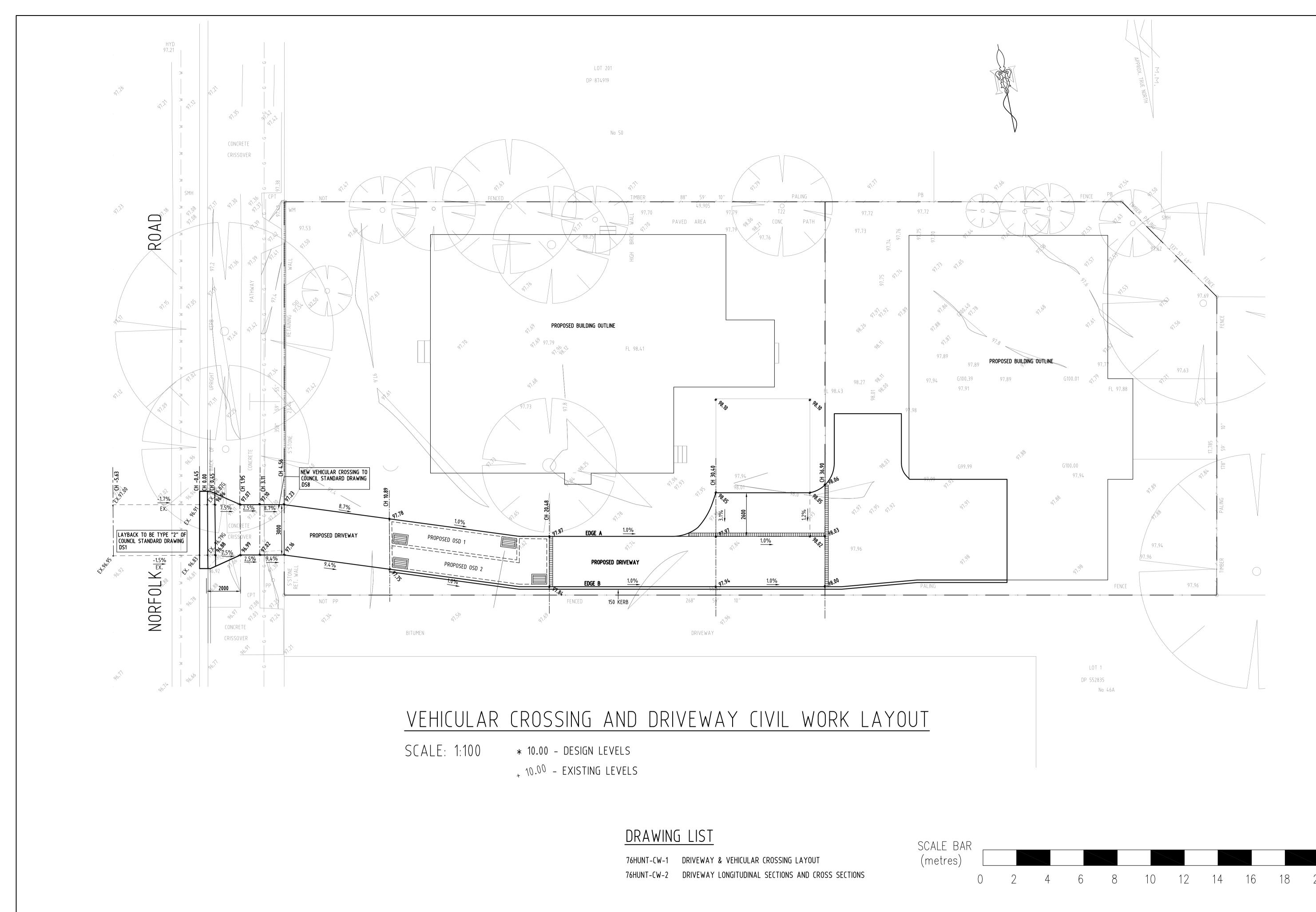
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Drawing Erosion & Sediment control Address 48 Norfolk Rd Epping NSW 2121 Min Xiong Sheet 18 Project 888623078 Client/s

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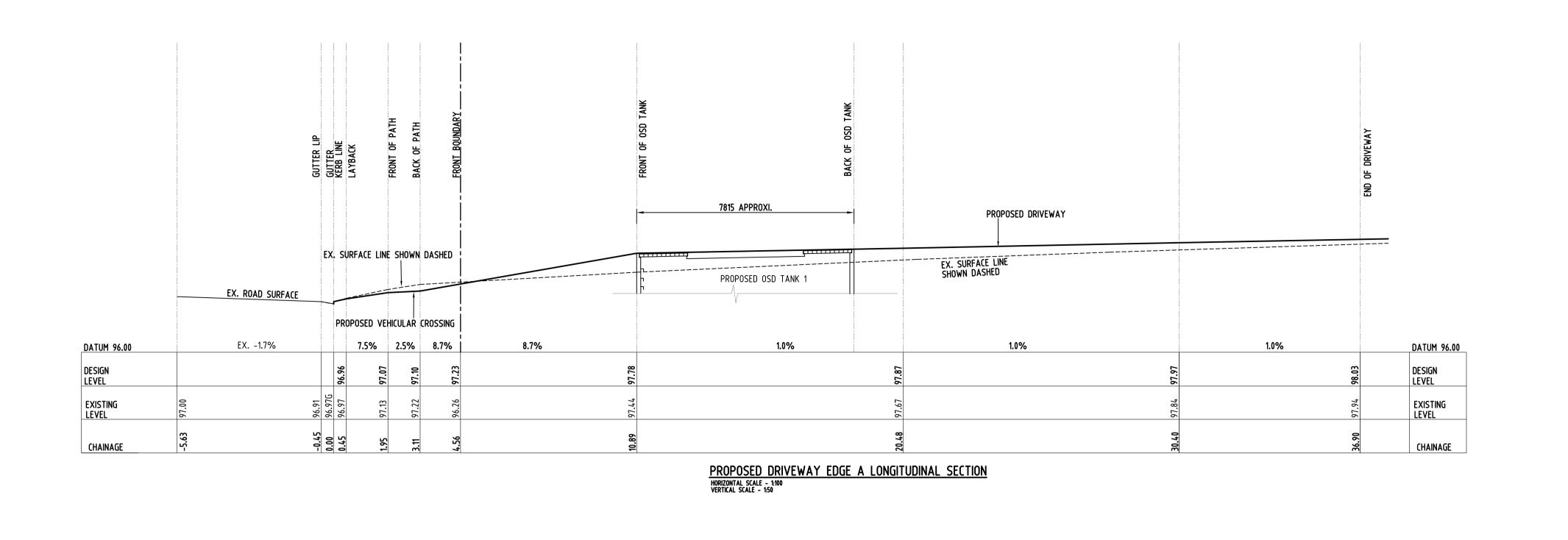
ISSUED FOR DA AMENDMENT DESCRIPTION ISSUES AMENDMENT DESCRIPTION

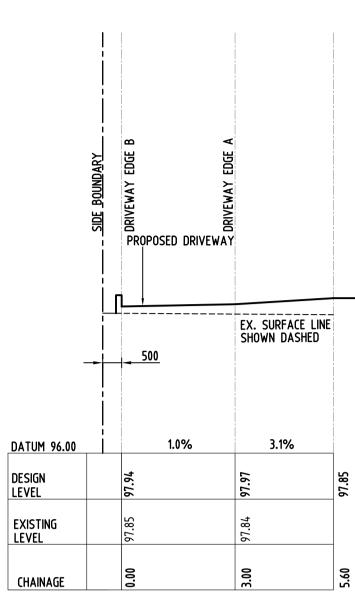
NOT FOR CONSTRUCTION



Adress:	
Suit 9/145-14	9 Forest F
Hurstville NS	W 2220

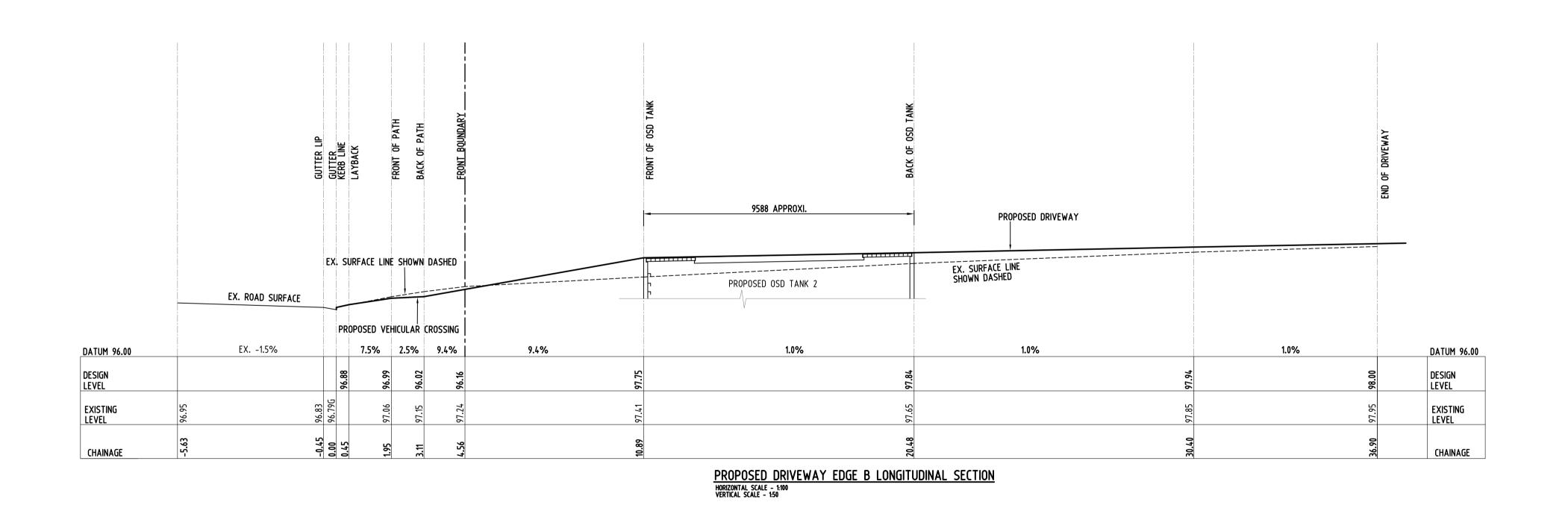
PROPOSED SUBDIVISION DEVELOPMENT AT: 48 NORFOLK ROAD, EPPING				VEHICLAR CROSSING & DRIVEWAY			
ì	CIVIL WORKS		SCALE:	AS SHOWN @A1	DRAWING No.:		
	DRAWN	SY	DATUM:	ALID	48NORF-C-1		
	APPROVED	AW (B.E. MIEAust CPEng NER)	DATUM:	AHD			

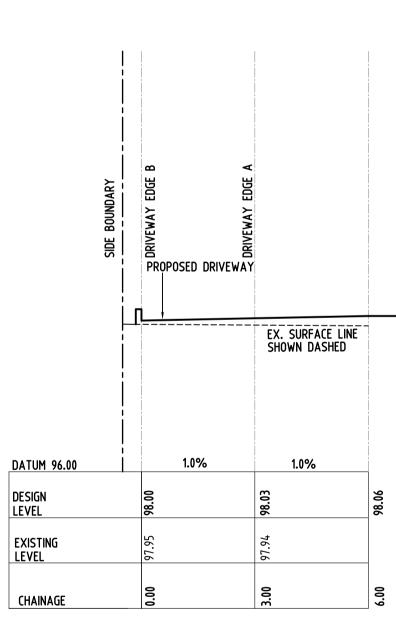




PROPOSED DRIVEWAY CROSS SECTION CH30.40

HORIZONTAL SCALE - 1:100
VERTICAL SCALE - 1:50





PROPOSED DRIVEWAY CROSS SECTION CH36.90
HORIZONTAL SCALE - 1:100
VERTICAL SCALE - 1:50

HORIZONTAL SCALE BAR (metres)											
	0	2	4	6	8	10	12	14	16	18	20
VERTICAL SCALE BAR (metres)											
	0	1	2	3	4	5	6	7	8	9	10

Α	17.01.2022	ISSUED FOR DA			
ISSUES	DATE	AMENDMENT DESCRIPTION	ISSUES	DATE	AMENDMENT DESCRIPTION

NOT FOR CONSTRUCTION ALLIED CONSUL

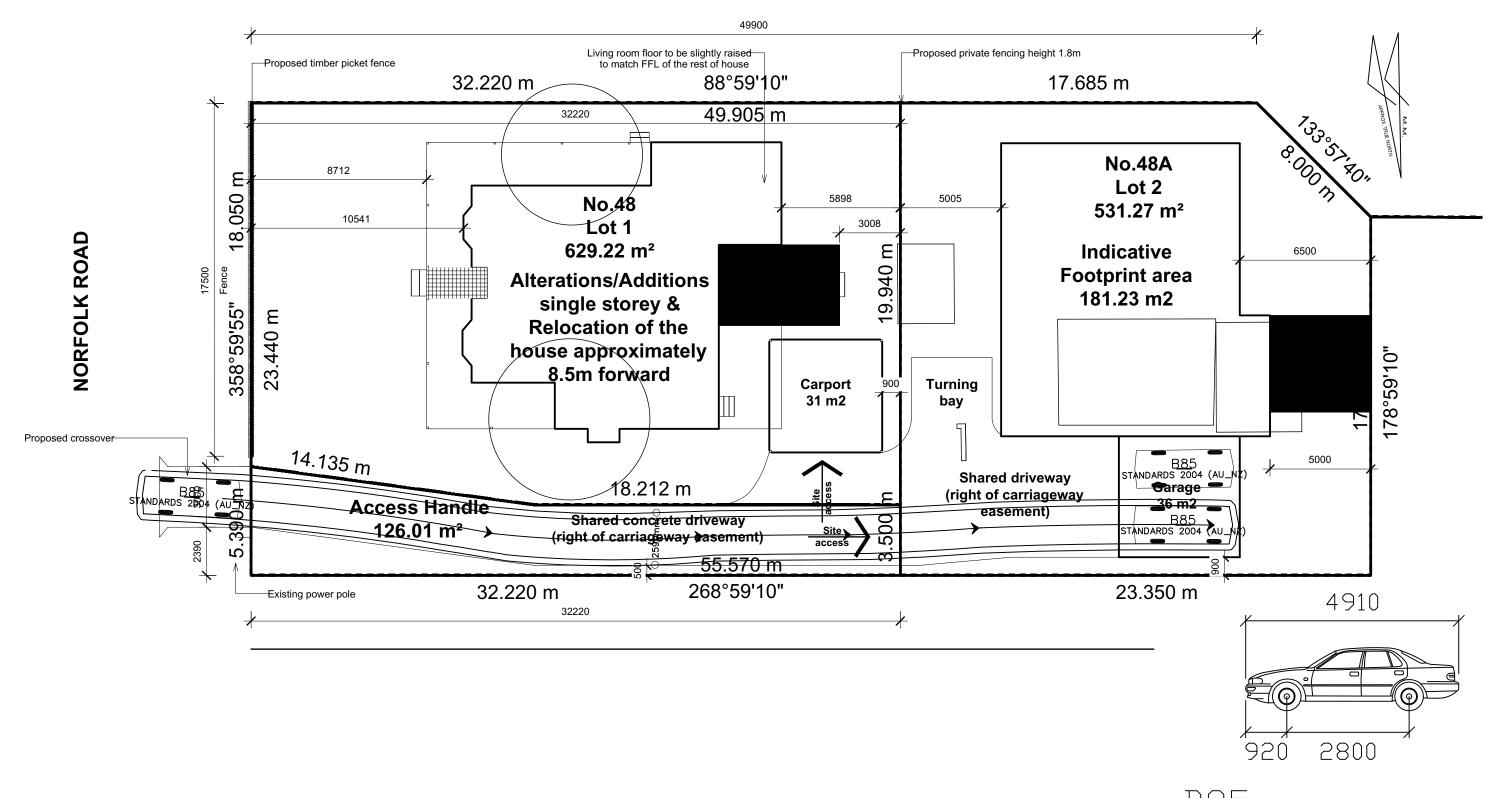


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dress:		
uit 9/145-149	Forest	Rd
Hurstville NSW	2220	

	SUBDIVISION DEVELOPMENT AT: RFOLK ROAD, EPPING			DRIVEWAY LONGITUDINAL SECTIONS AND CROSS SECTIONS	
CIVIL W	ORKS	SCALE:	AS SHOWN @A1	DRAWING No.:	REVISION:
DRAWN	SY	DATUM:	AUD	48NORF-C-2	A
APPROVED	AW (B.E. MIEAust CPEng NER)	DATOM.	AHD		

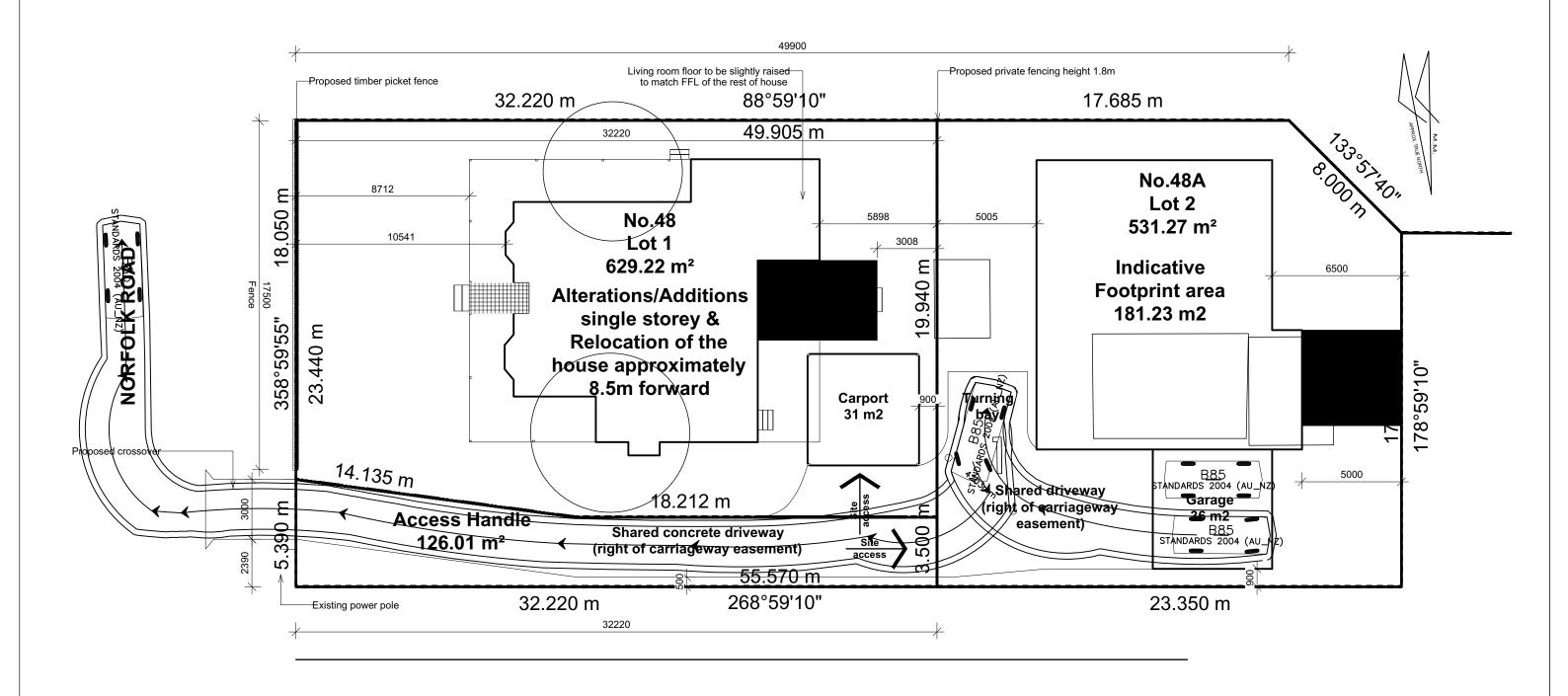


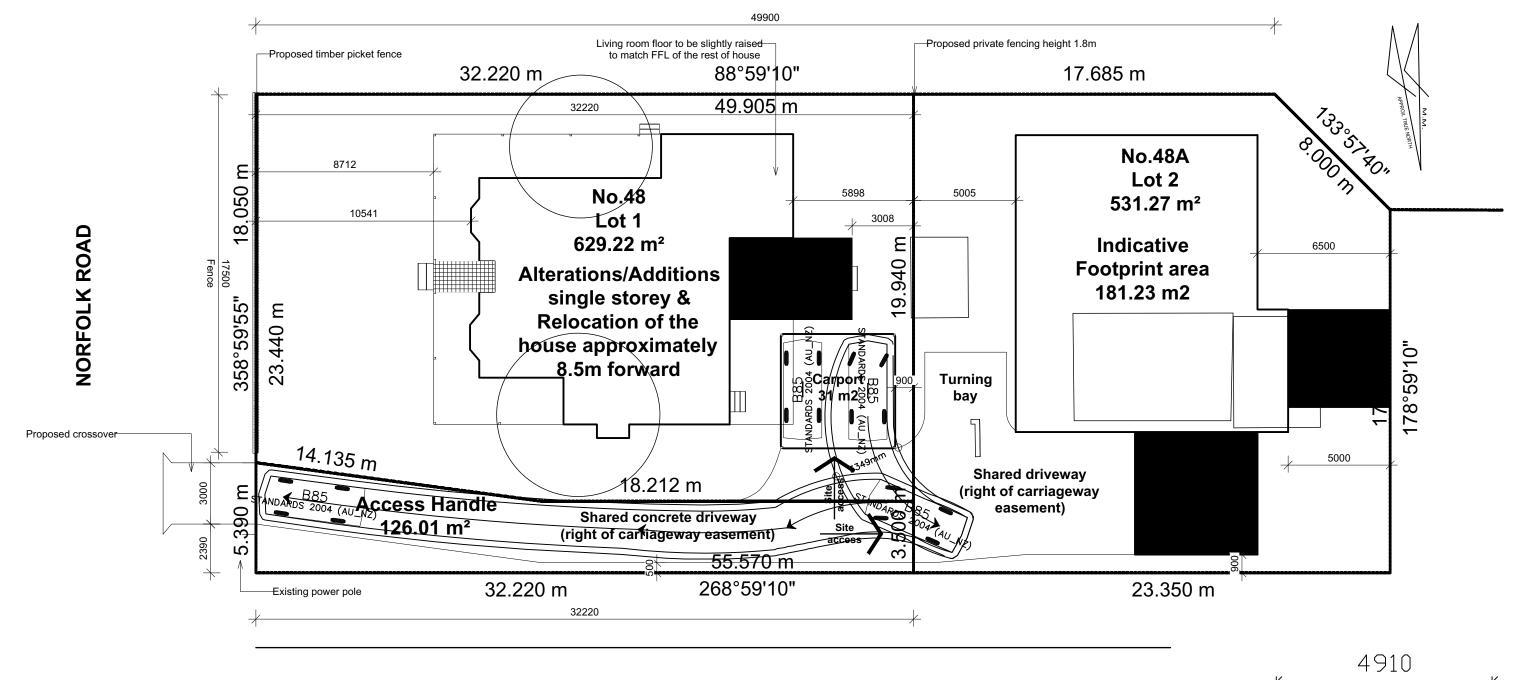
B85

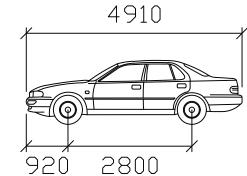
mm

Width : 1870 Track : 1770

Lock to Lock Time 6.0 Steering Angle : 34.1







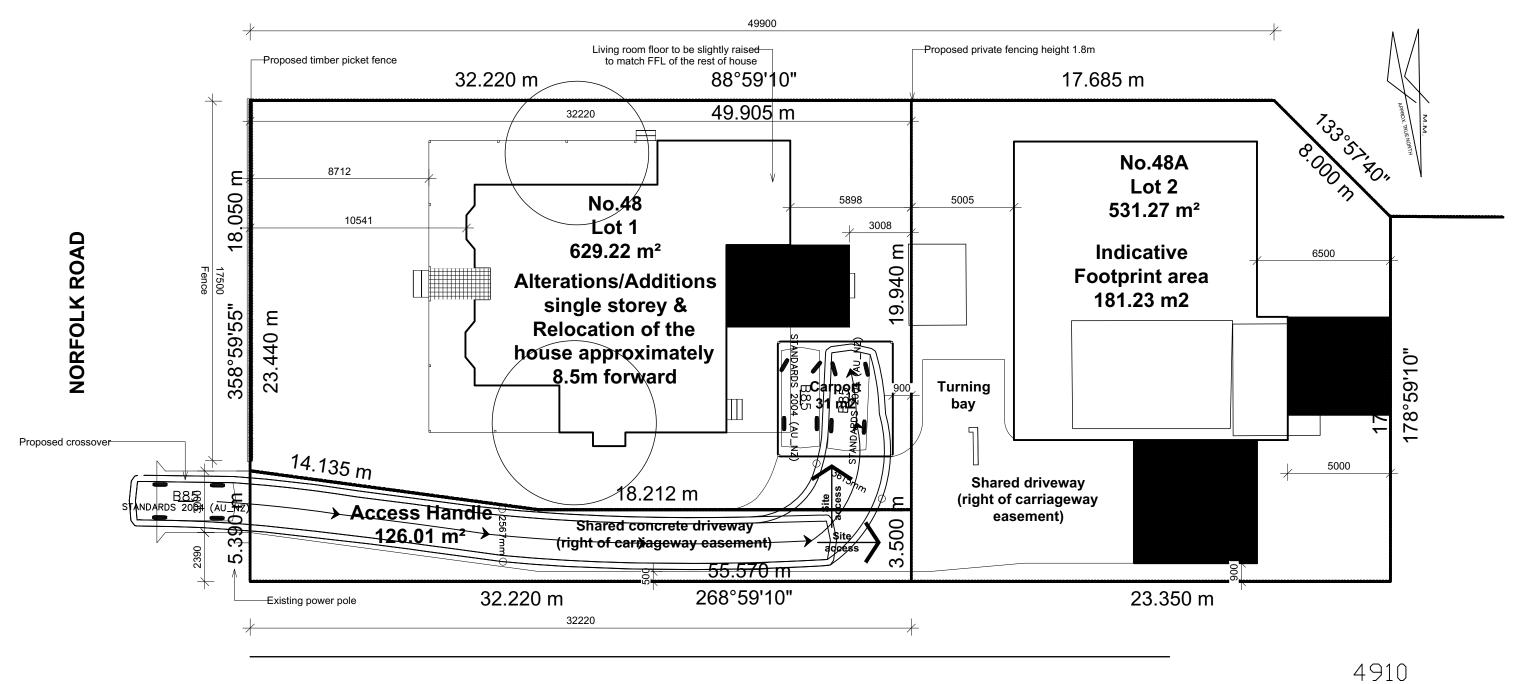
B85

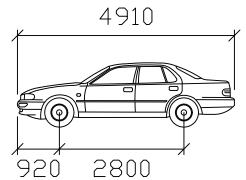
mm

Width : 1870 Track : 1770

Lock to Lock Time 6.0

Steering Angle : 34.1





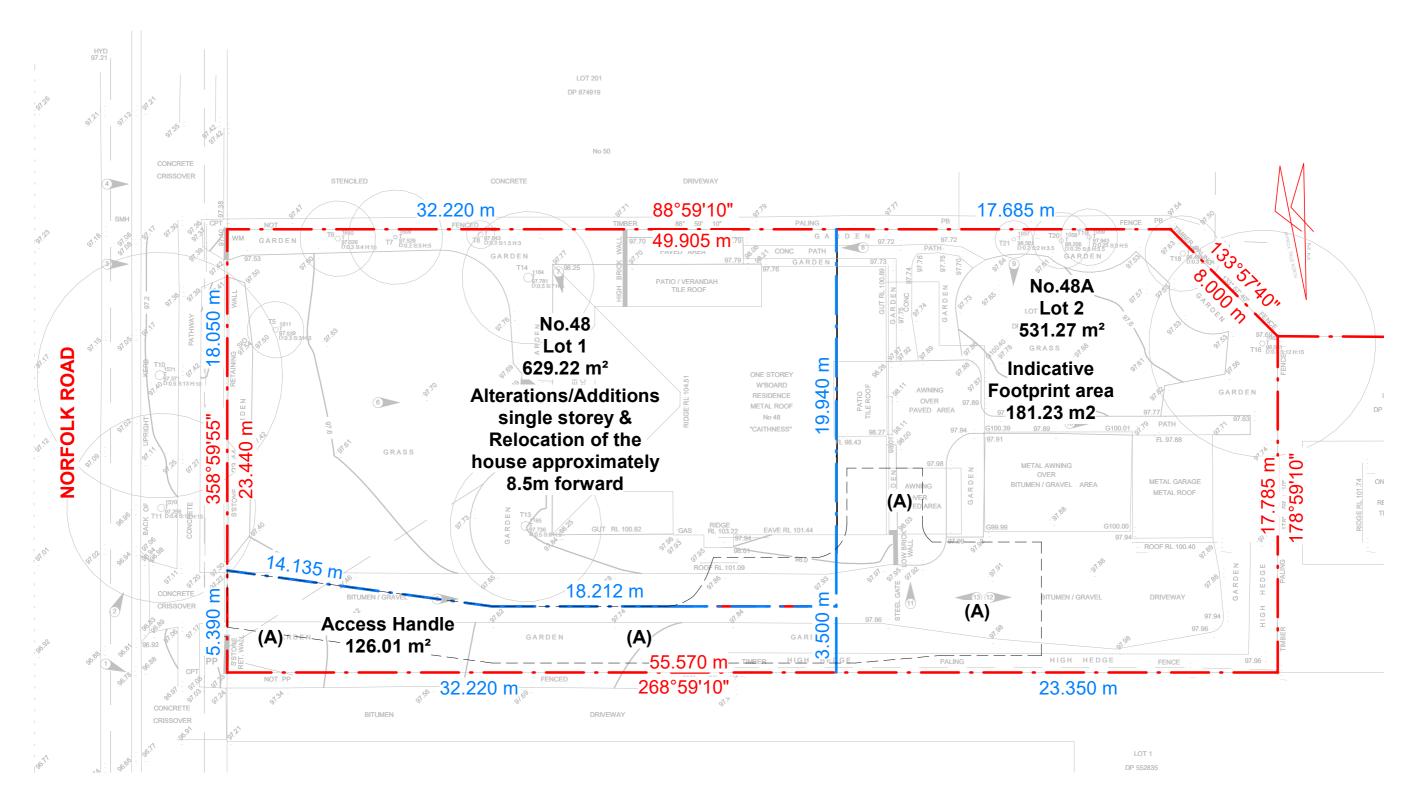
B85

mm

: 1870 Width Track

Lock to Lock Time 6.0

Steerina Anale





Note

'(A)' Right of carriageway easwment - (3.5m wide & variable)

Purpose: Development application only (DA)

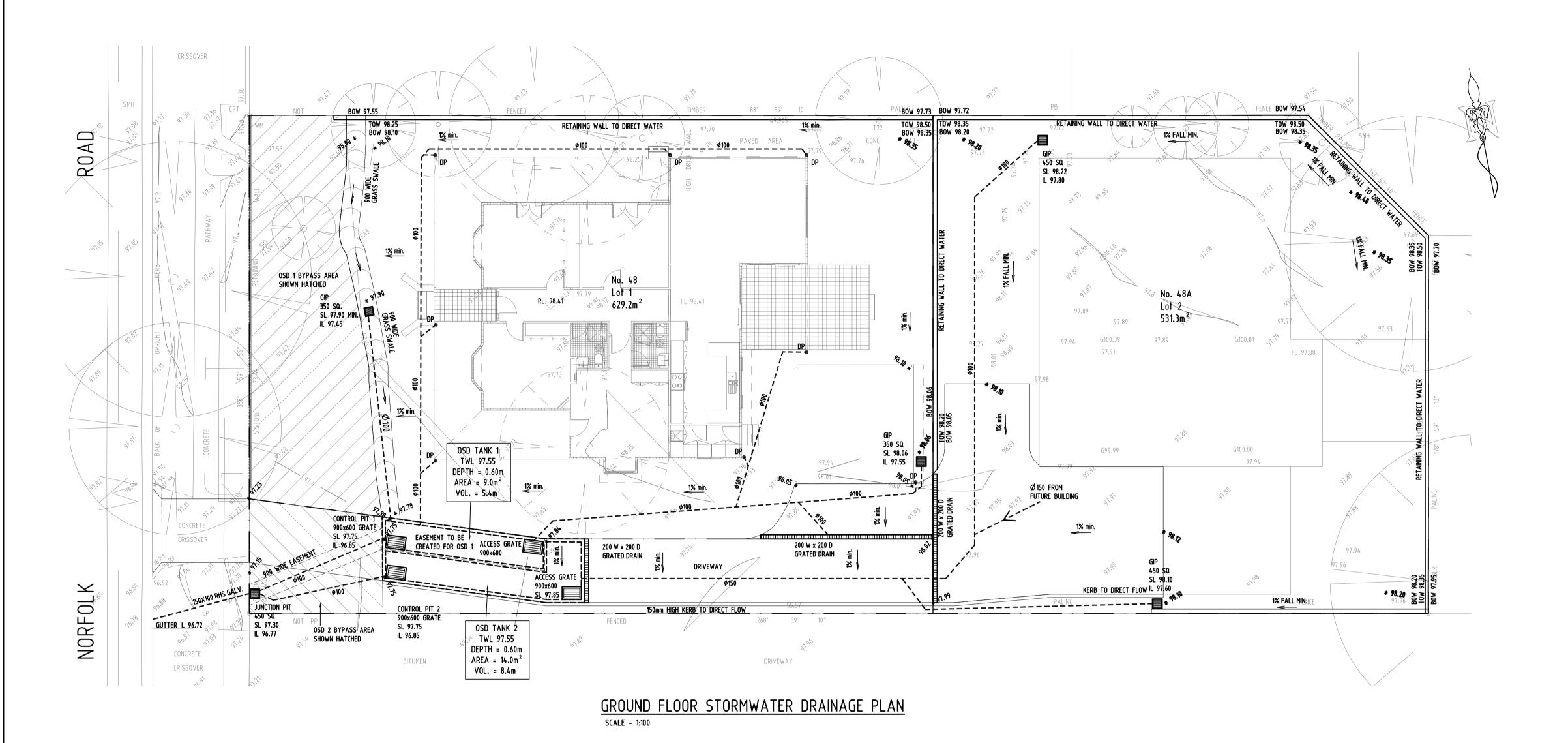
is/are prohibited from disclosing such information ideas and concepts to any person without the prior written consent of the copyright holder. Contractor to check and verify all levels, datums & dimensions on-site and shall report any discrepancies or omissions to this office prior to start of work & during the construction phase. This drawing is to be read and understood in conjunction with any

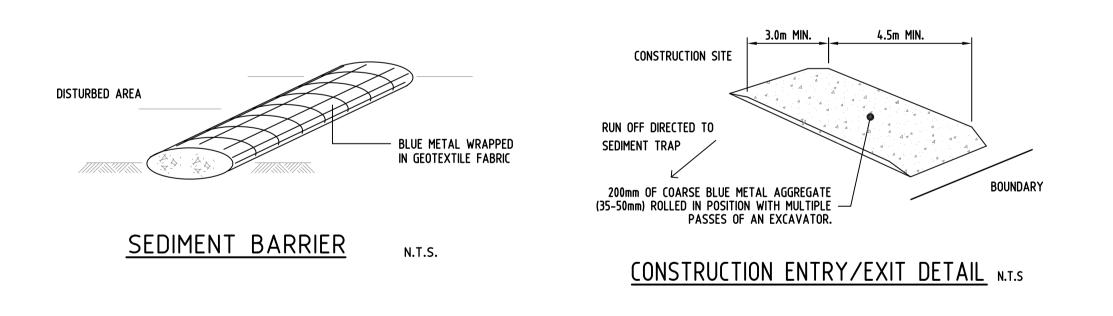
Drawing Subdivision plan Address 48 Norfolk Rd Epping NSW 2121 888623078 Client/s Min Xiong Sheet 04

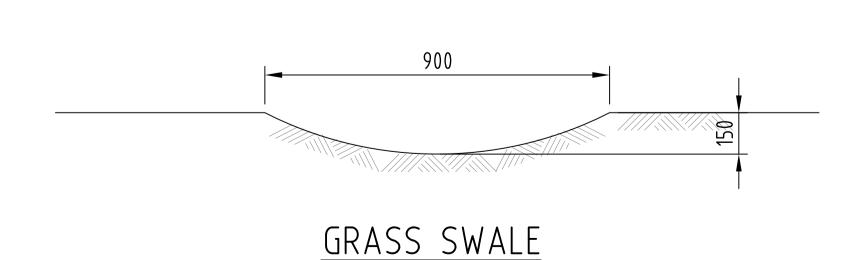
Revision description Update for DA approval As email on 22.01.13

Issued to Date Client Client









N.T.S.

DATE

ISSUES

18.01.2022

17.01.2022

DATE

ISSUED FOR DA

ISSUED FOR DISCUSSION

AMENDMENT DESCRIPTION

DRAINAGE AREA 0.4Ha MAX. SLOPE GRADIENT 1:2 MAX. SLOPE LENGTH 60m MAX. WIRE OR STEEL MESH-DISTURBED AREA DIRECTION OF FLOW -UNDISTURBED AREA

PROPOSED SILT FENCE

<u>NOTES</u>

SOIL AND WATER MANAGEMENT NOTES

01. ALL EROSION AND SEDIMENT CONTROL MEASURES TO BE INSPECTED AND MAITAINED DAILY BY SITE MANAGER

02. MINIMISE DISTURBED AREAS

03. ALL STOCKPILES TO BE CLEAR FROM DRAINS, GUTTERS AND FOOTPATHS.

04. DRAINAGE TO BE CONNECTED TO STORMWATER SYSTEM AS SOON AS POSSIBLE.

05. ROADS AND FOOTPATHS TO BE SWEPT DAILY AND KEPT CLEAN AT ALL TIMES

06. INSTALL TEMPORARY SEDIMENT BARRIERS TO ALL INLET PITS LIKELY TO COLLECT SILT LADDEN WATER, TO COUNCILS'S REQUIREMENTS.

07. NOT WITHSTANDING DETAILS SHOWN, IT IS THE SITE MANAGERS SOLE RESPONSIBILITY TO ENSURE THAT ALL SITE ACTIVITIES COMPLY WITH THE REQUIREMENTS OF THE CLEAN WATERS ACT.

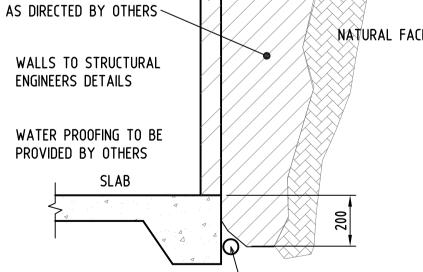
SYMBOLS

10.00	
	EXISTING LEVEL
* 10.00 	FINISHED LEVEL
RL 	REDUCED LEVEL
FFL	FINISHED FLOOR LEVEL FINISHED GARAGE LEVEL
FGL	
TK	TOP OF KERB
SL IL	PIT SURFACE LEVEL INVERT LEVEL
TOW	TOP OF WALL
TWL	TOP WATER LEVEL
BWL	BOTTOM WATER LEVEL
10	INSPECTION OPENING
0/F	OVERFLOW
• DP	DOWN PIPE
SP	SPREADER
■ GIP	GRATED INLET PIT
\boxtimes	CONCRETE COVER PIT
O VD	VERTICAL DROP
RWH	RAINWATER HEAD
● VR	VERTICAL RISER
	200X200 GRATED DRAIN
	150X150 GRATED DRAIN
	MASONRY RETAINING WALL
>	DIRECT OF SURFACE FALL
\rightarrow	OVERLAND FLOW PATH
O RW0	Ø 100 RAINWATER OUTLET
	ROOFWATER ONLY
	STORMWATER ONLY
	Ø50 OR Ø65 PUMP LINE
	Ø 100 SUBSOIL PIPE

GENERAL NOTES:

- 1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ARCHITECTURAL AND
- 3. ALL WORK DO BE DONE IN ACCORDANCE WITH AS/NZ 3500.3.
- AND LOCAL GOVERNMENT AUTHORITY SPECIFICATIONS.
- 4. IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE & LEVEL ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF ANY EARTHWORKS.
- 5. DRAINAGE PITS ARE TO BE A 450mm SQUARE OR LARGER AS SHOWN, AND FITTED WITH A GALVANIZED GRATE. ALL PITS TO BE BENCHED TO HALF PIPE LEVEL.
- 6. DRAINAGE PIPES SHALL BE SEWER GRADE UPVC, ALL PIPES SHALL HAVE MIN. 1% FALL, ALL PIPES SHALL BE Ø 100 MIN. UNLESS NOTED OTHERWISE.
- 7. ALL GUTTERS TO BE FITTED WITH LEAF GUARDS, ALL EAVE GUTTER TO HAVE A
- GRADIENT IN THE DIRECTION OF FLOW OF 1:500 OR STEEPER.
- 8. NO SEWER VENTS, GULLY PITS OR SIMILAR TO BE LOCATED BELOW THE MAXIMUM WATER IN DETENTION BASIN.
- 9. PERSONS UTILISING THIS PLAN FOR ANY PURPOSES SHALL VERIFY THE DATUM & RESPECTIVE LEVELS PRIOR TO COMMENCING ANY WORKS & NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
- 10. ALL WORKS TO BE CONSTRUCTED TO GOOD BUILDING PRACTICE & MATERIALS
- GRANULAR MATERIAL NATURAL FACE

TO MEET ACCEPTED SPECIFICATIONS.



BACKFILL WITH

AGLINE SURROUNDED WITH BLUE METAL AND PROVIDED WITH C.O. AS PER AS3500.3 TYPICAL RETAINNING WALL DRAINAGE DETAIL

	1

AMENDMENT DESCRIPTION

NOT FOR CONSTRUCTION

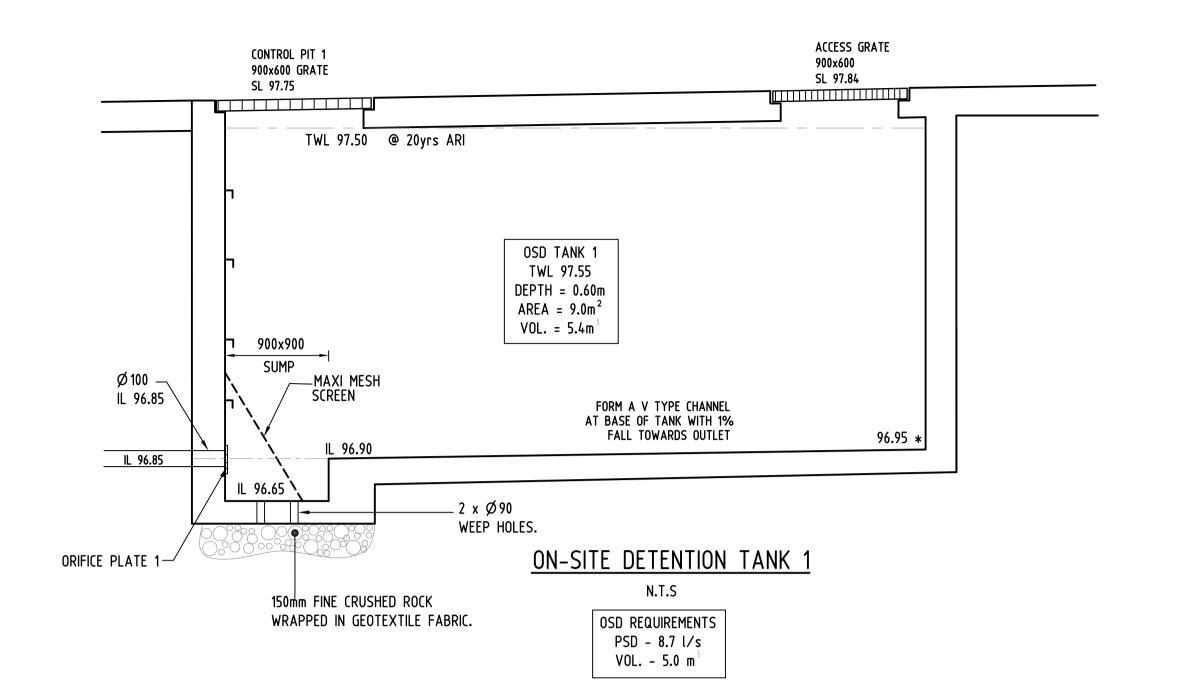


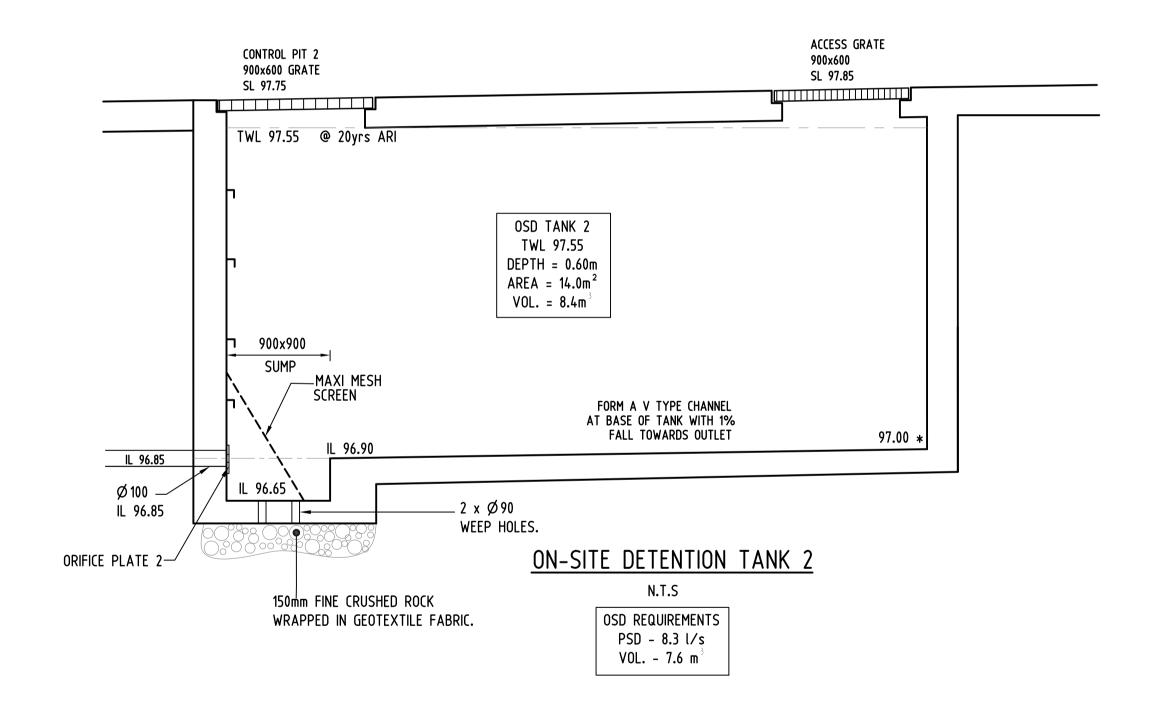
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Adress: Mobile: 0424 118 883 Email:admin@aconsultants.com.au www.aconsultants.com.au

Suit 9/145-149 Forest Rd Hurstville NSW 2220

	SUBDIVISION DEVELOPMENT A		GROUND FLOOR STORMWATER PLAN & DETAILS				
	ATER DRAINAGE ENT CONTROL	SCALE	AS SHOWN @A1	CLIENT:	Ms Mir	n Xiong	REVISION
DRAWN APPROVED	SY AW B.E. MIEAust CPEng NER	DATUM	A.H.D	DRAWING	No.: 4	8NORF-H-1	В





On Site Detention - Triangular Hydrographs OSD 1

Rainfall Grid Reference : HORSBY
Catchment Area (m^2) : 629
Impervious Area Pre Dev (%) : 30
Impervious Area Post Dev (%) : 65
Draining Through OSD (%) : 85
Gutter Flow (mins) : 0.0

Length (m) Slope (%) Roughness 39.0 1.00 0.200

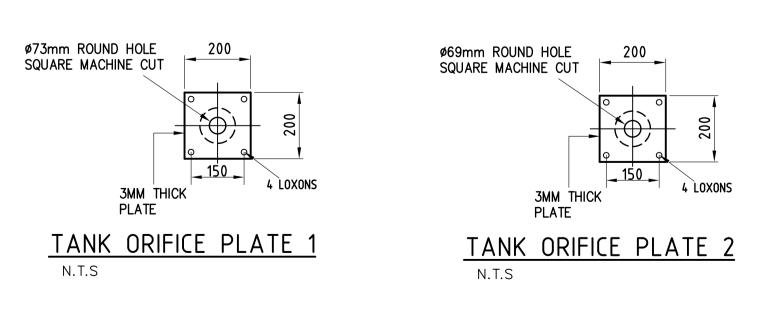
ARI	Pr e Deve	elopmen	nt	Qpre	Post	Develo	pment	Basin	I	Limiti	ng
(yrs)	Tc(mi	n) C	I	l/s	Tc(m	in) C	I	Qout(1/s)	$Vol(m^3)$	Q us	ed
1	20	0.48	50	4	10	0.60	69	3.1	1.8	Yes	
2	17	0.51	70	6	9	0.64	92	4.5	2.2	Yes	
5	15	0.57	94	9	8	0.72	123	6.9	2.9	Yes	
10	15	0.60	106	11	8	0.75	138	8.5	3.3	Yes	
20	14	0.63	126	14	13	0.79	130	8.7	5.0	Yes	APPLICABLE
50	13	0.69	152	18	13	0.87	152	8.7	8.3	Yes	
100	12	0.72	174	22	12	0.90	174	8.7	10.4	Yes	

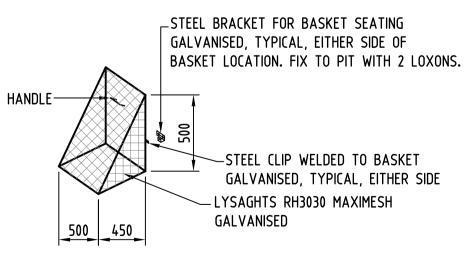
On Site Detention - Triangular Hydrographs OSD 2

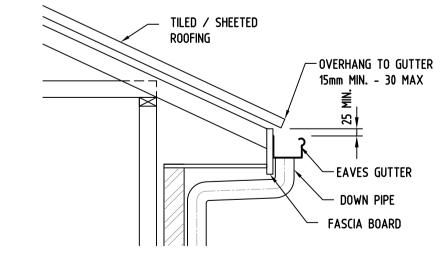
Rainfall Grid Reference : HORSBY
Catchment Area (m^2): 657
Impervious Area Pre Dev (%): 30
Impervious Area Post Dev (%): 65
Draining Through OSD (%): 95
Gutter Flow (mins): 0.0

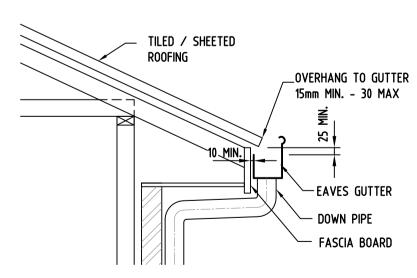
Length (m) Slope (%) Roughness 55.0 1.00 0.200

ARI	Pr e Dev	elopmer	nt	Qpre	Post	Develo	pment	Basin	I	Limiti	.ng
(yrs)	Tc(mi	n) C	I	l/s	Tc(m	in) C	I	Qout(1/s)	$Vol(m^3)$	Q us	ed
1	26	0.48	44	4	12	0.60	63	3.5	2.2	Yes	
2	23	0.51	60	6	11	0.64	85	5.1	2.8	Yes	
5	20	0.57	82	9	10	0.72	112	7.8	3.6	Yes	
10	19	0.60	95	10	12	0.75	117	8.7	4.7	Yes	
20	18	0.63	112	13	16	0.79	118	8.7	7.1	Yes	APPLICABLE
50	16	0.69	138	17	16	0.87	138	8.7	11.5	Yes	
100	15	0.72	158	20	15	0.90	158	8.7	14.3	Yes	









SCREEN DETAIL (TYPICAL)

N.T.S.

TYPICAL EAVE GUTTER DETAIL N.T.S.

WITH LOW FRONT

TYPICAL EAVE GUTTER DETAIL N.T.S. WITH HIGH FRONT & 10mm GAP TO FACIA

В	18.01.2022	ISSUED FOR DA			
Α	17.01.2022	ISSUED FOR DISCUSSION			
ISSUES	DATE	AMENDMENT DESCRIPTION	ISSUES	DATE	AMENDMENT DESCRIPTION

NOT FOR CONSTRUCTION

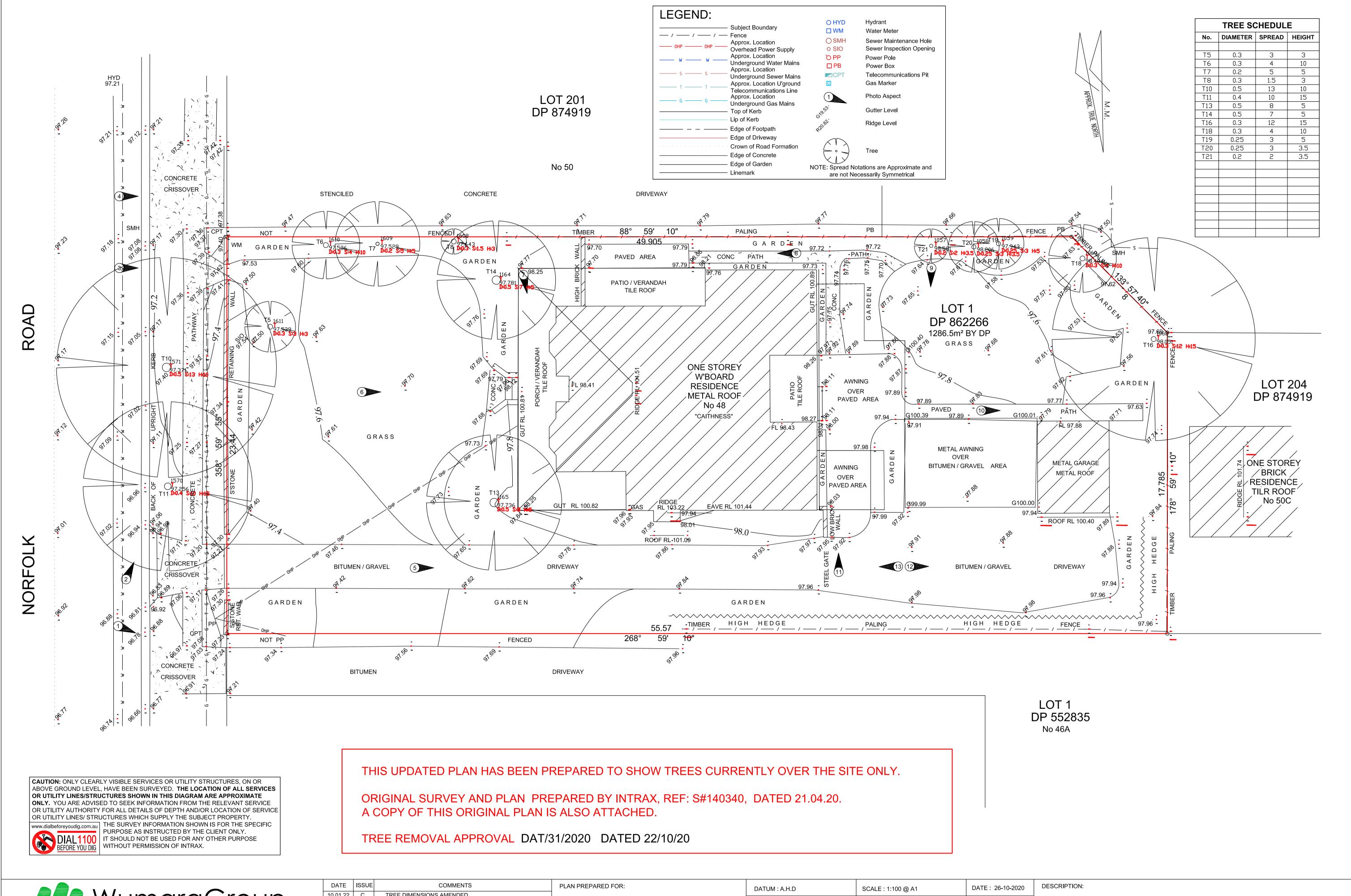


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Email:admin@aconsultants.com.au
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Hurstville NSW 2220

		SUBDIVISION DEVELOPMENT A	STORMWATER DETAILS			
orest Rd	STORMW	ATER DRAINAGE	SCALE	AS SHOWN @A1	CLIENT: Ms Min Xiong	REVISIO
220	DRAWN	SY	DATUM	AUD	DRAWING No.: 48NORF-H-2	В
	APPROVED	AW B.E. MIEAust CPEng NER	DATOM	A.H.D	40110111 -11-2	5

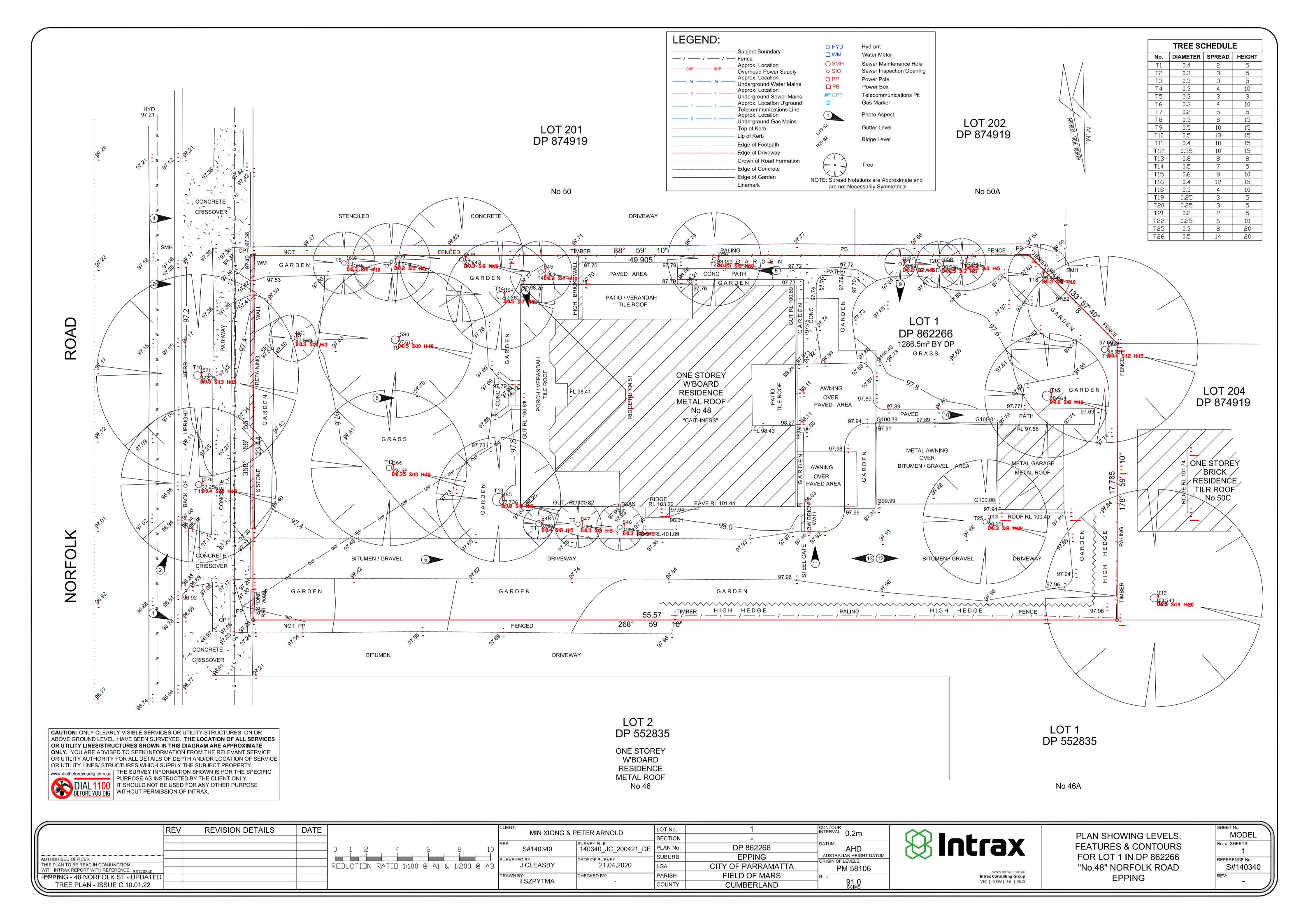


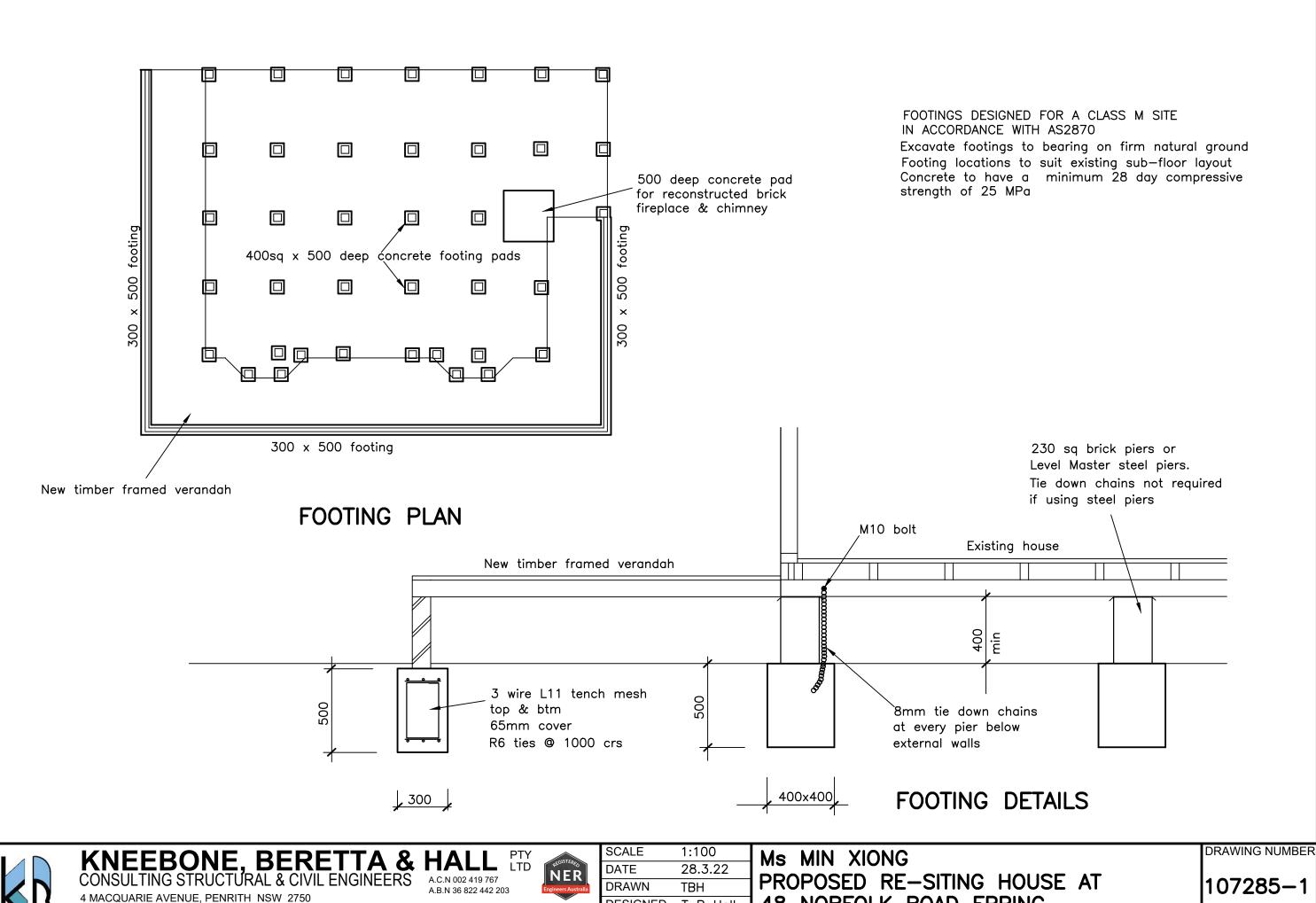
WumaraGroup
A: 13 Woodville Street, Glenbrook, NSW, 2773 E: info@wumaragroup.com.au P: 0430 172127

	TREE DIMENSIONS AMENDED	O	10.01.22
N 4' \/'			
Min Xiong			

DATUM : A.H.D	SCALE: 1:100 @ A1	DATE: 26-10-2020	DE
ORIGIN OF LEVELS: N/A	LOCALITY : EPPING	SURVEY : DF SN	U
CONTOUR INTERVAL: N/A	LGA : CITY OF PARRAMATTA	DRAWN : DF	L
SHEET No. 1 OF 1	REF: 140920DF	CHECKED : DM	N

UPDATED PLAN SHOWING TREE AMENDMENTS
LOT 1 IN DP 862266
No. 48 NORFOLK RD, EPPING, NSW







PHONE: (02) 4731 3833

E-MAIL ADDRESS: office@kbhallengineers.com.au

Directors: Trevor B. HALL, B.Sc (Eng), F.I.E. Aust., C.P. Eng. RPEQ 5081 NER

Peter R. ANDRESEN, B.E. M.I.E. Aust, C.P. Eng. NER

Ď	NER Engineers Australia
_	DDEO E004 NE

	OOMEL	1.100
	DATE	28.3.22
	DRAWN	TBH
	DESIGNED	T B Hall
₹	APPROVED	MACI

48 NORFOLK ROAD EPPING FOOTING DETAILS

ISSUE