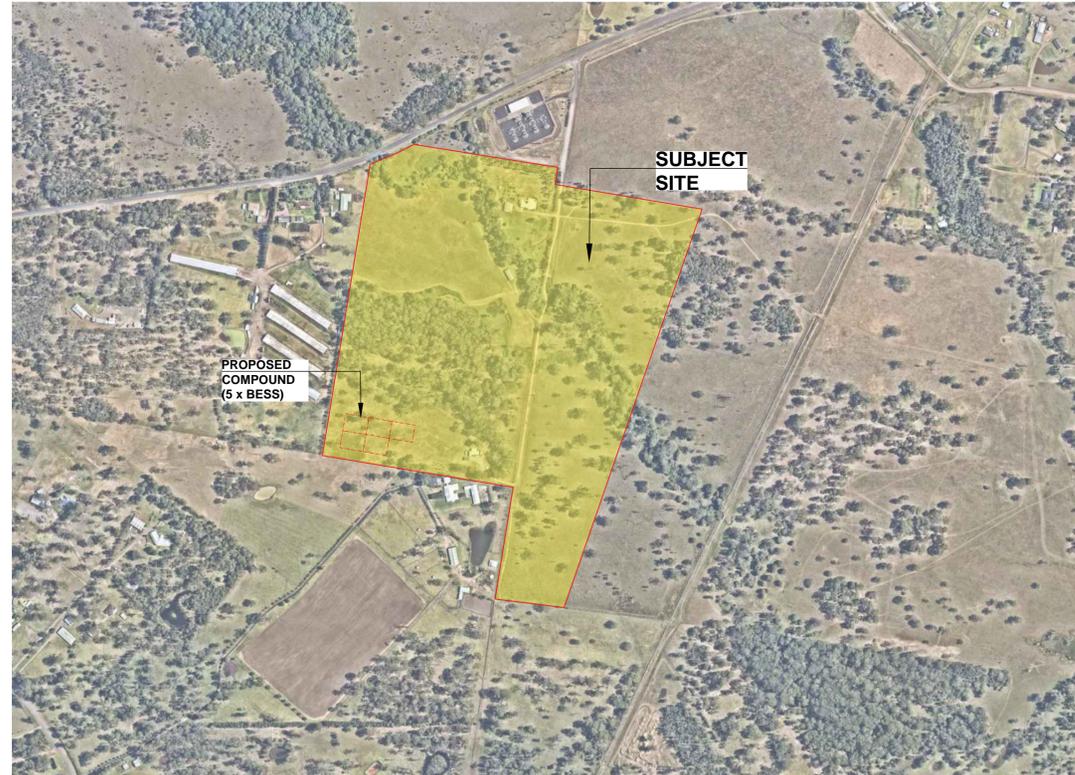


DEVELOPMENT APPLICATION

PROPOSED BATTERY ENERGY STORAGE SYSTEM (BESS)



**1154 CLARENCE TOWN ROAD,
SEAHAM**

DRAWING SCHEDULE

- LDA00 COVERSHEET
- LDA01 SITE ANALYSIS & CONTEXT
- LDA02 LANDSCAPE PLAN (5 x BESS)
- LDA03 PLANT SCHEDULE, IMAGES & DETAIL
- LDA04 ELEVATION (SOUTHERN)
- PLANTING AT 1 & 5 YEARS
- LDA05 ELEVATION (EASTERN)
- PLANTING AT 1 & 5 YEARS
- LDA06 ELEVATIONS (SOUTHERN AND EASTERN)
- PLANTING MATURITY
- LDA07 VIEWPOINT 1
- LDA08 VIEWPOINT 2
- LDA09 VIEWPOINT 3
- LDA10 VIEWPOINT 4
- LDA11 VIEWPOINT 5
- LDA12 VIEWPOINT 6
- LDA13 VIEWPOINT 7
- LDA14 VIEWPOINT 8
- LDA15 MAINTENANCE SPECIFICATION

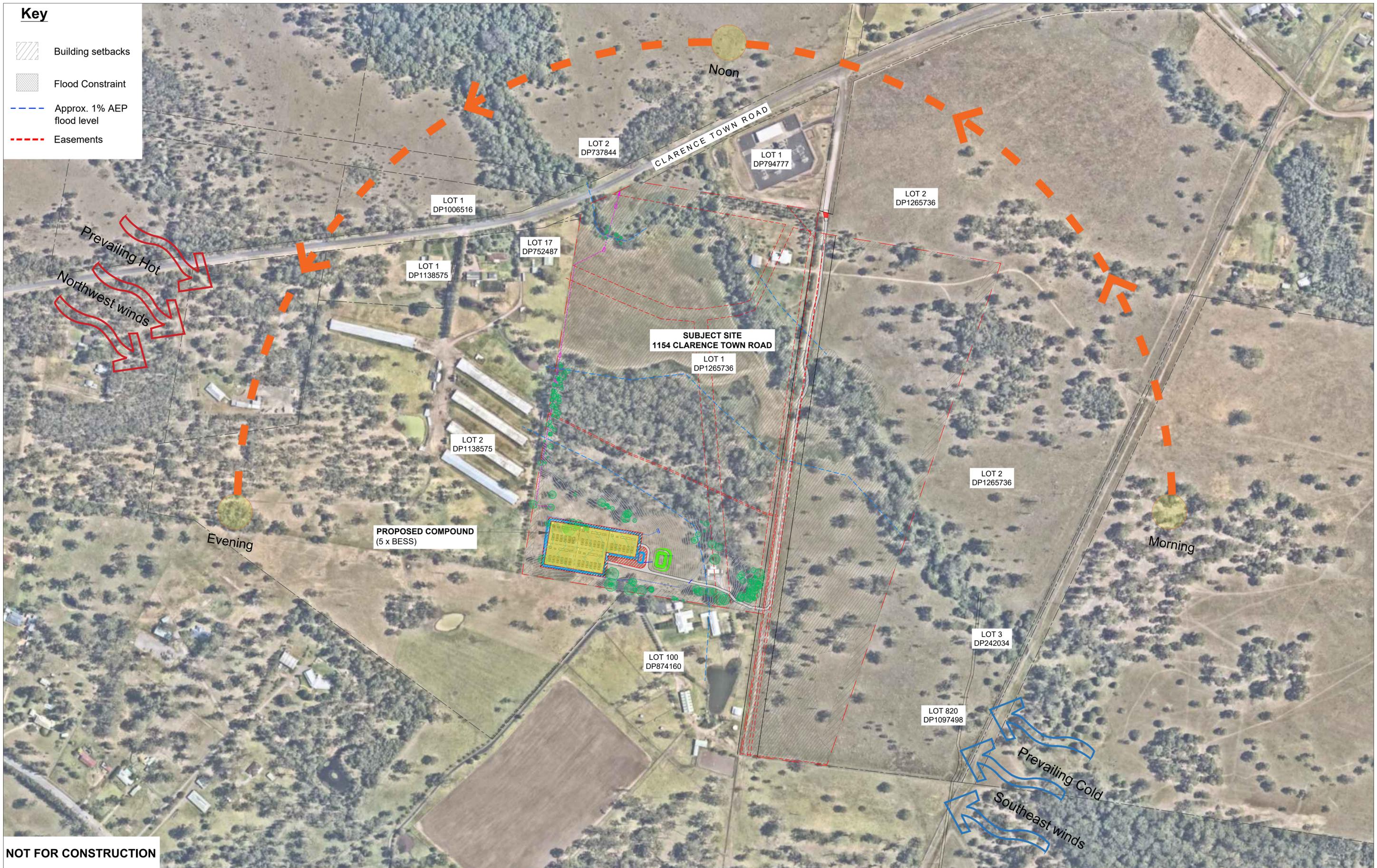
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LANDSCAPE ARCHITECT:		BAR SCALE:	ASPECT:	CLIENT:	ENGINEERING AND PLANNING:	PROJECT:	TITLE:	STATUS:		
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								SCALE:	DATE:	JOB No:
									22/12/23	23.40
								ISSUE:	DWG No:	PLOTTED:
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								DS	AC	AC

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Key

-  Building setbacks
-  Flood Constraint
-  Approx. 1% AEP flood level
-  Easements



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A	22/12/2023	Final submission												
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						SCALE: 1:2500	DATE: 22/12/23	JOB No: 23.40						
						ISSUE: A	DWG No: LDA01	PLOTTED: 1						
						DRAWN: DS	CHECKED: AC	APPROVED: AC						

Key

-  Tree to be removed
-  Existing trees
-  Proposed trees
-  Proposed shrubs
-  Turf / Grass
-  Groundcover
-  HushPanel acoustic fence (Refer engineering drawings)
-  Water tank
-  Extent of APZ
-  Diversion drain
-  Power connection (Trench)
-  Drain pipe (underground)

- LARGE CANOPY TREE:**
- Eucalyptus fibrosa
 - open spreading canopy
 - dark furrowed / rough bark
- MEDIUM MID-STORY TREE:**
- Melaleuca nodosa
 - dense rounded canopy
 - papery white bark
 - spiky thin foliage

- MEDIUM SHRUB:**
- Breynia oblongifolia
 - dropped, dense canopy
 - red berries
- MEDIUM SHRUB:**
- Dodonaea viscosa
 - dense canopy

- MEDIUM MID-STORY TREE:**
- Glochidion ferdinandii
 - round dense canopy
- LARGE SHRUB:**
- Commersonia fraseri
 - open spreading canopy
 - fast growing

- LARGE CANOPY TREE:**
- Corymbia maculata
 - open conical to spreading canopy smooth
 - greyish, mottled bark
- LEVEL SPREADER:**
(Final landform to allow free flow of overland stormwater in landscaped area)

- LARGE CANOPY TREE:**
- Corymbia maculata
 - open conical to spreading canopy smooth
 - greyish, mottled bark

- MEDIUM LARGE CANOPY TREE:**
- Alphitonia excelsa
 - open canopy & wide trunk
 - fast growing

- LARGE SHRUB:**
- Notolaea longifolia
 - rounded open canopy

- LARGE CANOPY TREE:**
- Eucalyptus tereticornis
 - open spreading canopy
 - smooth mottled cream trunk

- MEDIUM SHRUB:**
- Callistemon citrinus
 - dense rounded canopy
 - red bottlebrush flowers

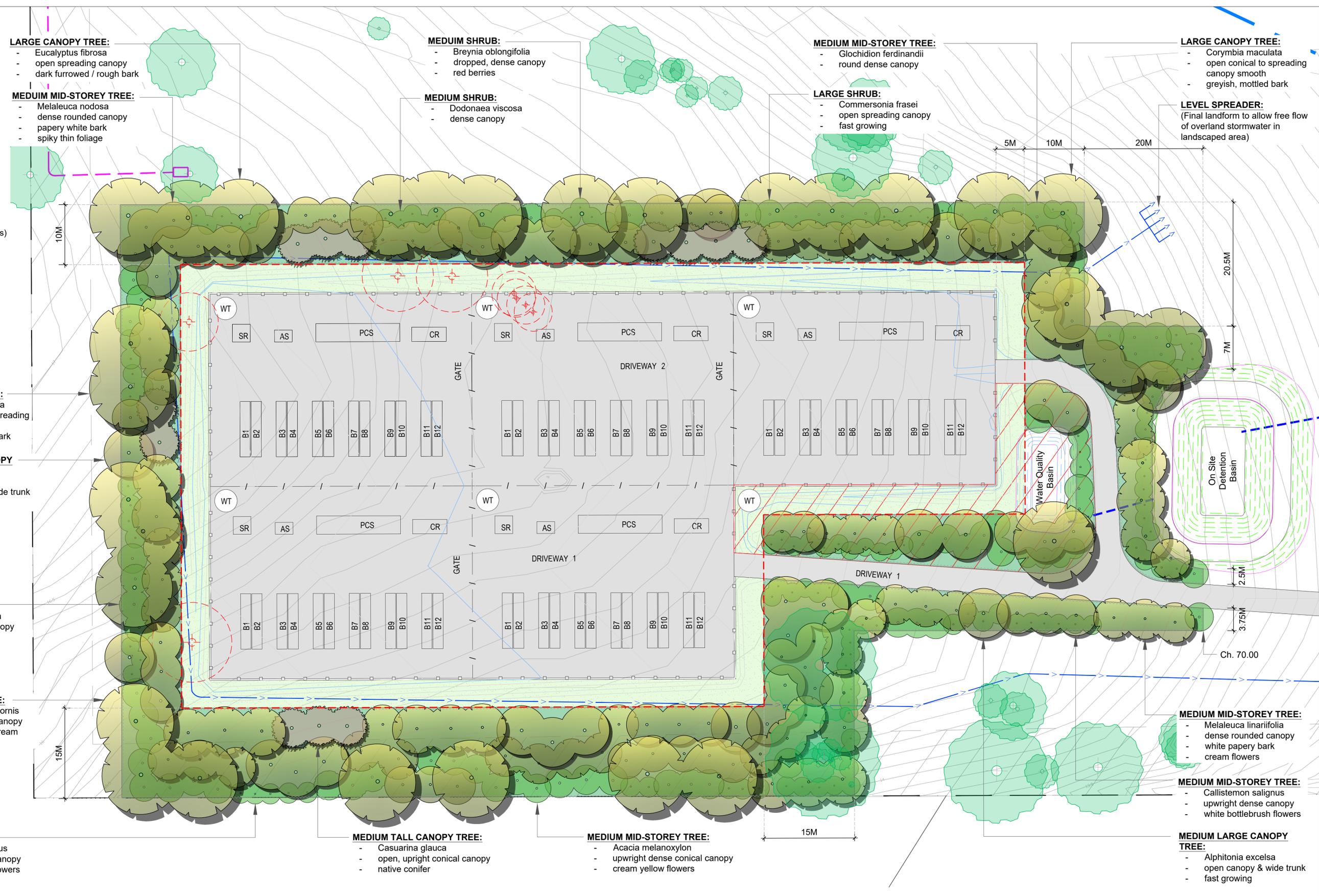
- MEDIUM TALL CANOPY TREE:**
- Casuarina glauca
 - open, upright conical canopy
 - native conifer

- MEDIUM MID-STORY TREE:**
- Acacia melanoxylon
 - upright dense conical canopy
 - cream yellow flowers

- MEDIUM MID-STORY TREE:**
- Melaleuca linariifolia
 - dense rounded canopy
 - white papery bark
 - cream flowers

- MEDIUM MID-STORY TREE:**
- Callistemon salignus
 - upright dense canopy
 - white bottlebrush flowers

- MEDIUM LARGE CANOPY TREE:**
- Alphitonia excelsa
 - open canopy & wide trunk
 - fast growing



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LANDSCAPE ARCHITECT:

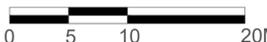
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158 Grandview Rd, New Lambton Hills, NSW 2305.

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w. conuslandscapearchitecture.com.au
abn. 52 144 562 756



Registered Landscape Architect: Anton Conus AILA No. 8420

BAR SCALE:



1:300 @ A1

ASPECT:



CLIENT:

Hive Battery Developments Pty Ltd

Quintas Energy

ENGINEERING AND PLANNING:

HDB

REV	DATE	NOTATION/AMENDMENT
A	22/12/2023	Final submission

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PROJECT:

Proposed Battery Energy Storage System (BESS)

1154 CLARENCE TOWN ROAD, SEAHAM

TITLE:

LANDSCAPE PLAN (5 x BESS)

ISSUE:	DWG No:	PLOTTED:
A	LDA02	1

STATUS:	Development Application	
SCALE:	DATE:	JOB No:
1:200	22/12/23	23.40
DRAWN:	CHECKED:	APPROVED:
DS	AC	AC

PLANT SCHEDULE

Botanic Name	Common Name	Size (m)	Pot Size	Spacing
Trees				
Acacia melanoxylon	Blackwood	12H x 6W	25L	As shown
Alphitonia excelsa	Red Ash	12H x 8W	25L	As shown
Callistemon salignus	White Bottlebrush	9H x 6W	25L	As shown
Casuarina glauca	Swamp Oak	12H x 6W	25L	As shown
Corymbia maculata	Spotted Gum	25H x 12W	25L	As shown
Eucalyptus fibrosa	Red Ironbark	25H x 12W	25L	As shown
Eucalyptus tereticornis	Forest Red Gum	25H x 12W	25L	As shown
Glochidion ferdinandii	Cheese Tree	9H x 8W	25L	As shown
Melaleuca linariifolia	Snow-in-Summer	7H x 6W	25L	As shown
Melaleuca nodosa	Prickly Tea Tree	7H x 5W	25L	As shown
Shrubs				
Breynia oblongifolia	Breynia	2H x 2W	140mm	1.5m
Callistemon citrinus	Crimson Bottlebrush	3H x 3W	200mm	1.5m
Clerodendrum tomentosum	Lolly Bush	3.5H x 3W	200mm	1.5m
Commersonia fraseri	Brown Kurrajong	4.5H x 4.5W	200mm	2m
Dodonaea viscosa	Hop Bush	2.5H x 2W	200mm	1.5m
Notolaea longifolia	Mock Olive	4H x 3W	200mm	2m
Climbers and Groundcovers				
Lomandra longifolia	Mattrush Grass	0.8H x 1W	tube	2/m2
Microlaena stipoides var. stipoides	Weeping Meadow Grass	1H x 1W	tube	4/m2

NOTES:

- All garden beds to contain premium imported garden mix with 5% organics mixed with site soil
- Provide slow-release fertiliser to each plant to manufacturer's instructions
- All garden beds to contain 80mm depth native hardwood chip mulch, similar to ANL 'Forest Fines'
- All trees to be staked by 1800 x 50 x 50mm hardwood timber stakes fastened with hessian ties
- All trees to comply with NATSPEC specifications
- All turf to be Couch on 50mm premium topdress
- All garden edges to be H4 treated pine



Acacia melanoxylon

Alphitonia excelsa

Breynia oblongifolia

Callistemon salignus

Callistemon citrinus

Casuarina glauca



Clerodendrum tomentosum

Commersonia fraseri

Corymbia maculata

Dodonaea viscosa

Eucalyptus fibrosa



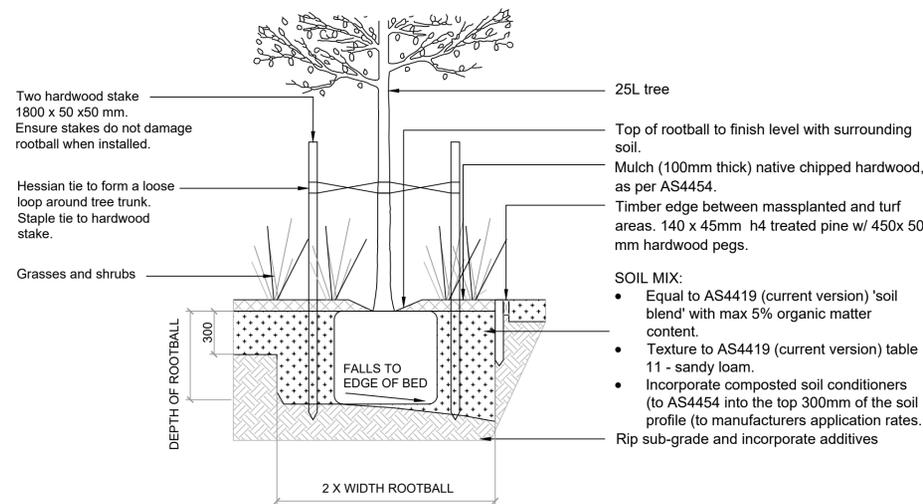
Eucalyptus tereticornis

Glochidion ferdinandii

Melaleuca linariifolia

Melaleuca nodosa

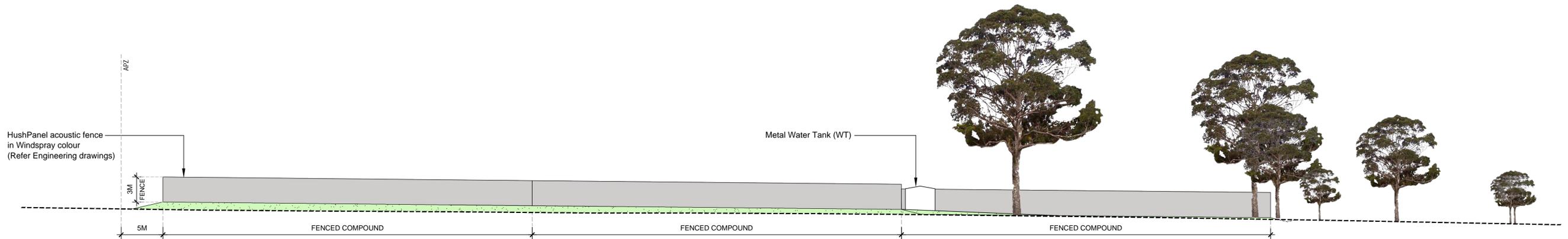
Notolaea longifolia



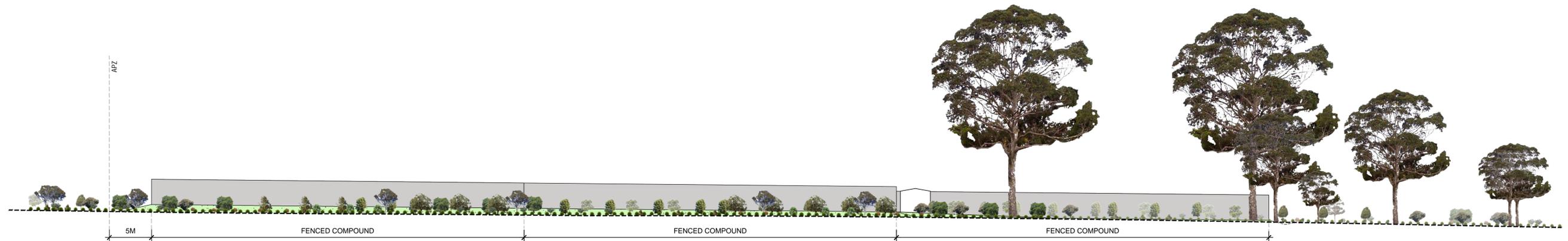
01 TREE DETAIL
04 25L TREE IN MASS PLANTING - GENERAL 1:25

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						SCALE:	DATE:	JOB No:	
						AS INDICATED	22/12/23	23.40	
						ISSUE:	DWG No:	PLOTTED:	
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						DS	AC	AC	



01 ELEVATION A (SOUTHERN) 1:250
04 - BEFORE PLANTING



02 ELEVATION A (SOUTHERN) 1:250
04 - PLANTING AT 1 YEAR

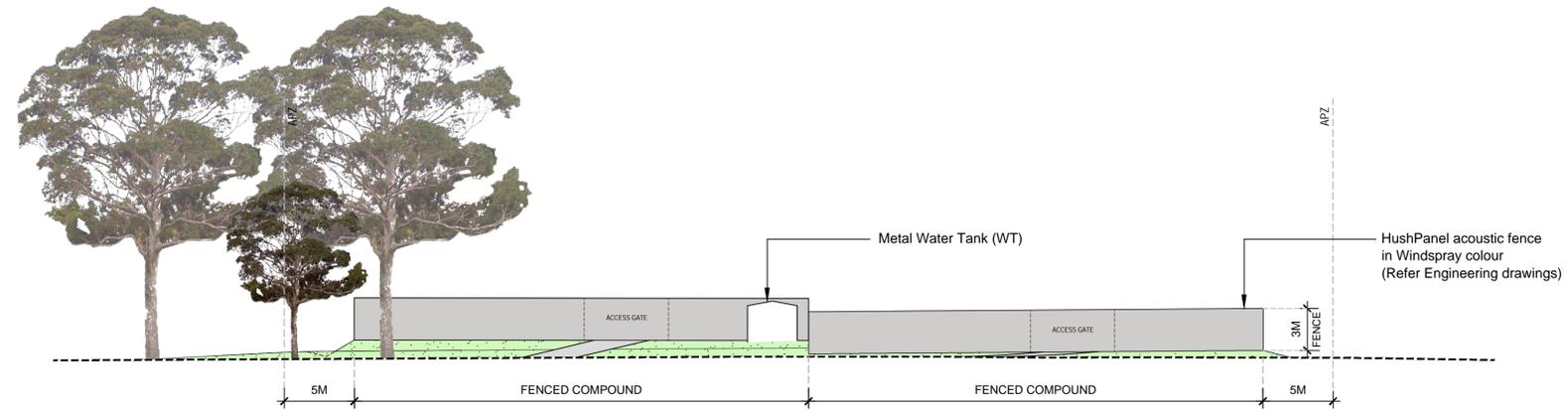


03 ELEVATION A (SOUTHERN) 1:250
04 - PLANTING AT 5 YEARS

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						SCALE: 1:250	DATE: 22/12/23	JOB No: 23.40
						ISSUE: A	DWG No: LDA04	PLOTTED: 1
						DRAWN: DS	CHECKED: AC	APPROVED: AC

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01 ELEVATION D (EASTERN) 1:250
05 - BEFORE PLANTING



02 ELEVATION D (EASTERN) 1:250
05 - PLANTING AT 1 YEAR



03 ELEVATION D (EASTERN) 1:250
05 - PLANTING AT 5 YEARS

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					SCALE: 1:250	DATE: 22/12/23	JOB No: 23.40
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01 ELEVATION A (SOUTHERN) 1:250
06 - PLANTING MATURITY



02 ELEVATION D (EASTERN) 1:250
06 - PLANTING MATURITY

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LOCATION MAP (NOT TO SCALE)



01
07 VIEWPOINT 1 NTS



01
07 VIEWPOINT 1 (PLANTING MATURITY) NTS

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01 VIEWPOINT 2 NTS



01 VIEWPOINT 2 (PLANTING MATURITY) NTS

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A	22/12/2023	Final submission																						
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Registered Landscape Architect: Anton Conus AILA No. 8420			SCALE: -	DATE: 22/12/23	JOB No: 23.40	ISSUE: A	DWG No: LDA08	PLOTTED: 1	DRAWN: DS	CHECKED: AC	APPROVED: AC													



LOCATION MAP (NOT TO SCALE)



01 09 VIEWPOINT 3 NTS



01 09 VIEWPOINT 3 (PLANTING MATURITY) NTS

NOT FOR CONSTRUCTION

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LOCATION MAP (NOT TO SCALE)



01 VIEWPOINT 4 NTS



01 VIEWPOINT 4 (PLANTING MATURITY) NTS

NOT FOR CONSTRUCTION

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ISSUE: A		DWG No: LDA10	PLOTTED: 1	DRAWN: DS	CHECKED: AC	APPROVED: AC																		

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LOCATION MAP (NOT TO SCALE)



01 11 VIEWPOINT 5 NTS



01 11 VIEWPOINT 5 (PLANTING MATURITY) NTS

NOT FOR CONSTRUCTION

LANDSCAPE ARCHITECT:  Conus Landscape Architecture 158 Grandview Rd, New Lambton Hts, NSW 2305. p. 02 4950 9195 e. info@conuslandscapearchitecture.com.au w. conuslandscapearchitecture.com.au abn. 52 144 562 756 Registered Landscape Architect: Anton Conus AILA No. 8420		BAR SCALE:	ASPECT:	CLIENT: Hive Battery Developments Pty Ltd Quintas Energy	ENGINEERING AND PLANNING: HDB	<table border="1"> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td>A</td> <td>22/12/2023</td> <td>Final submission</td> </tr> <tr> <td>REV</td> <td>DATE</td> <td>NOTATION/ AMENDMENT</td> </tr> </table> <p>DO NOT SCALE DRAWINGS. CHECK ALL DIMENSIONS. FIGURED DIMENSIONS TAKE PRECEDENCE. THESE DRAWINGS ARE NOT FOR CONSTRUCTION.</p>							A	22/12/2023	Final submission	REV	DATE	NOTATION/ AMENDMENT	PROJECT: Proposed Battery Energy Storage System (BESS) 1154 CLARENCE TOWN ROAD, SEAHAM	TITLE: VIEWPOINT 5	STATUS: Development Application	SCALE: -	DATE: 22/12/23	JOB No: 23.40
A	22/12/2023	Final submission																						
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LOCATION MAP (NOT TO SCALE)



01 12 VIEWPOINT 6 NTS



01 12 VIEWPOINT 6 (PLANTING MATURITY) NTS

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LOCATION MAP (NOT TO SCALE)



01 VIEWPOINT 7 NTS
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01 VIEWPOINT 7 (PLANTING MATURITY) NTS
13

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 Conus Landscape Architecture 158 Grandview Rd, New Lambton Hts, NSW 2305. p. 02 4950 9195 e. info@conuslandscapearchitecture.com.au w. conuslandscapearchitecture.com.au abn. 52 144 562 756				Hive Battery Developments Pty Ltd Quintas Energy	HDB	Proposed Battery Energy Storage System (BESS) 1154 CLARENCE TOWN ROAD, SEAHAM	VIEWPOINT 7	Development Application	Job No: 23.40			
						A 22/12/2023 Final submission		SCALE: -	DATE: 22/12/23			
						REV DATE NOTATION/ AMENDMENT	ISSUE: A	DWG No: LDA13	PLOTTED: 1	DRAWN: DS	CHECKED: AC	APPROVED: AC
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LOCATION MAP (NOT TO SCALE)



01 14 VIEWPOINT 8 NTS



01 14 VIEWPOINT 8 (PLANTING MATURITY) NTS

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A	22/12/2023	Final submission																						
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ISSUE: A	DWG No: LDA14	PLOTTED: 1	DRAWN: DS	CHECKED: AC	APPROVED: AC																			

MAINTENANCE SPECIFICATION

(52 weeks Plant Establishment Period)

Maintenance of the proposed development will be in accordance with "Port Stephens Council's DCP, 2014".

1. GENERAL

The Contractor will be responsible for maintaining all areas within private property as follows:

- All initial planting should be healthy, pest and disease free.
- All plants should be monitored for pests and diseases every three days for the first four weeks and then every three months. Plants effected badly by pests and diseases should be removed, disposed of off site and replaced.
- Young seedlings are desirable to some species such as rabbits, hares and macropods and if they are considered a problem, plastic tree guards should be used around each plant or reinstated where removed.
- Biological controls are the preferred treatment for pests and diseases. Any chemicals used for pest and disease control must be registered for use in aquatic situations by the National Registration Authority, as indicated on the label.
- Treatment of pests and diseases should be conducted at the same time to avoid reinfestation from adjacent areas.
- Grassed areas will be mowed and landscape beds mulched. Any damage done to nature strip shall be repaired including replacement of street trees and restoration of grassed areas as required.
- Mowing will be kept to a blade height of 30mm-70mm and frequency will be in accordance with the seasons. All edges will be trimmed with a whipper-snipp as frequently as mowing is required.
- Mowing will vary seasonally. Once in a three week cycle is adequate within most months other than 'deep summer' and 'deep winter' environmental conditions.
- Fertiliser shall be applied to manufacturer's requirements.
- Weeding maintenance should be monitored and completed when periodically.
- Weeds will be effectively controlled by the use of mulching and densely planting groundcovers to combat invasion. Where necessary herbicides may be used to control weed infestation.
- Plants will be checked for pest and diseases regularly, any pesticides used will be broad range and have low toxicity.
- Prune as required only. Prune in accordance with Ross Clark's 'Nat Spec'.
- Plant replacement – dead and dying plants should be replaced immediately by the Landscape Contractor; vandalised plants should be replaced to a maximum of two times by the Landscape Contractor. Thereafter, plants replaced should be at the client's expense. All trees to be replaced to be accordance with Ross Clark's 'NatSpec'.
- Stakes and ties of trees to be removed at the end of 52 week
- Using an irrigation system connected to an outside water tank, turf and planting areas to be watered three times per week within the first month, then twice weekly for the next two months. Thereafter, taper to once per month to harden site conditions whilst allowing the maximum root growth within the initial quarter.
- Watering frequency will vary according to season and weather variations. Council's water restriction policy must be adhered to at all times.
- A Maintenance Log is to be kept by the contractor and shown to the Landscape Architect upon request.

2. TREES AND SHRUBS

2.1 New trees - first 2 months following planting

- Monitor soil moisture as this will vary depending on soil and weather conditions.
- As a general guide, water each tree with 10 litres of water three times in the first two weeks, then once per week and 5 litres of water for each shrub.
- Maintain stakes and tree guards (if applicable) vertically and replace immediately if broken.
- Remove encroaching grasses and weeds from the mulched area using herbicides at label rates, or by hand removal.
- Inspect foliage, branches and trunk for any indications of pest and disease infestations. Control where necessary.
- Replenish mulch to retain an even 75mm depth.
- Replace failed trees immediately.

2.2 New trees - from 2-12 months following planting

- Inspect trees and shrubs monthly and water at 10 litres per tree, 5 litres per shrub if required.
- Retain mulch at 75mm depth at all times.
- Remove hessian ties if trees are self-supporting after six months, or re-tie as needed.
- All stakes must be removed by the end of the maintenance period and disposed of in a responsible manner.
- Retain hardwood stakes as markers for the twelve month period.
- Keep the mulched area free of grasses and weeds at all times.
- Inspect foliage, branches and trunk for any indications of pest and disease infestations. Control where necessary.
- After six months, lightly prune trees which need branch direction or branch removal to permit traffic access or pedestrian access. Do not top or lop any tree. Carry out formative pruning to remove any low branches and encourage a clear stem.
- Replace any tree which is dead or in irreversible decline.
- Twelve months after planting, fertilise trees with slow release fertiliser at manufacturer's recommended rates.

2.3 Maintenance of established trees and shrubs

- Inspect trees at six monthly intervals in the second and third year of growth.
- Retain mulch at 75mm depth during this period.
- Remove ties and stakes if trees are self-supporting or re-tie if still needed.
- Remove grass and weeds from mulched area.
- Inspect foliage, branches and trunk for any indications of pest and disease infestations. Control where necessary.
- Prune trees which need directional branch pruning to produce one main trunk to allow pedestrian and traffic access.
- Replace any tree which is dead or in irreversible decline.
- For the first three years after planting, fertilise trees annually with slow release fertiliser at manufacturers recommended rates.
- After trees have been growing for at least three years and have established well and are flourishing, inspection should be made at least annually. Any necessary pruning or tree surgery should be carried out as required to maintain healthy growth.
- When mature trees have been removed, the stump is to be ground out and the areas around made good. Position trees in the area adjacent to the existing tree, or consult Council's Landscape Architect for an alternative location.

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 Conus Landscape Architecture 158 Grandview Rd, New Lambton Hills, NSW 2305. p. 02 4950 9195 e. info@conuslandscapearchitecture.com.au w. conuslandscapearchitecture.com.au abn. 52 144 562 756		 Australian Institute of Landscape Architects				Hive Battery Developments Pty Ltd Quintas Energy		HDB		Proposed Battery Energy Storage System (BESS) 1154 CLARENCE TOWN ROAD, SEAHAM		MAINTENANCE SPECIFICATION		Development Application	
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