

Satterley Property Group
BMP Compliance and Condition Clearance Report
Eden Beach Estate, Jindalee
Stages 28, 29, 33, 40 & 41

27 September 2022

63437/146,650 (Rev 0)

JBS&G Australia Pty Ltd T/A Strategen-JBS&G

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1. Introduction

1.1 Site/development summary

Table 1 provides a summary of the site and proposed development. The development layout and subject lots are shown in Figure 1.

Table 1: Site/development summary

Site details	
Address details	137 proposed residential lots within Eden Beach Estate, Jindalee, Stages 28, 29, 33, 40 and 41
Local government area	City of Wanneroo
Description of building works	Construction of a single residential dwelling (Class 1a building and associated Class 10a building/s) within each lot
Client	Satterley Property Group

1.2 Purpose of report

This Bushfire Management Plan (BMP) compliance and condition clearance report has been prepared for 137 proposed residential lots within Eden Beach Estate, Jindalee, Stages 28, 29, 33, 40 and 41 (the project area) to address WAPC conditions as outlined in Table 2.

Table 2. WAPC conditions relevant for the project area

WAPC Condition and issue date	Subject Lots	Condition
159574 – 2 December 2020 Relevant to Stage 28, 40 and 41	Refer to Figure 1	Condition 13: Information is to be provided to demonstrate that the measures contained in the bushfire management plans have been implemented.
157558 – 3 May 2019 Relevant to Stages 29 and 33	Refer to Figure 1	Condition 15: Information is to be provided to demonstrate that the measures contained in the bushfire management plan have been implemented during subdivisional works.

For the purposes of addressing the abovementioned conditional requirements, the latest Eden Beach subdivision stage BMP prepared by Bushfire Safety Consulting, dated 12 December 2018, has been implemented during subdivisional works and used to assess bushfire management compliance.

This report also provides a post subdivisional works update of the Bushfire Attack Level (BAL) ratings for individual lots within the project area. Of the 137 proposed residential lots within the project area, 75 are designated bushfire prone on the Map of Bush Fire Prone Areas (DFES 2021, see Figure 2). As such, bushfire risk considerations and BAL assessment at the building stage are applicable to these 75 bushfire prone lots. BAL certificates for the 75 bushfire prone lots have been prepared based on the final site compliance check and are appended to this report (see Appendix A) for the benefit of the developer, future lot purchasers and decision makers.






The BAL assessment outlined in this report is the most up to date assessment from Strategen-JBS&G relating to the project area and has been prepared in consideration of the previous BAL contour assessment documented in the approved subdivision stage BMP (Bushfire Safety Consulting 2018). The approach for preparation of this report is consistent with Section 4.2 and Appendix 3 of *Guidelines for Planning in Bushfire Prone Areas* (the Guidelines; WAPC 2021).


2. Implementation of relevant bushfire management measures

The endorsed subdivision stage BMP (Bushfire Safety Consulting 2018) includes bushfire management measures that are inherent for the proposed residential lots to achieve compliance with the Guidelines, including delivering a BAL-29 or lower outcome for all proposed lots. The BAL ratings for the project area have been reassessed following subdivisional works and are depicted on the BAL Contour Map (see Figure 2).

Strategen-JBS&G can confirm that the relevant bushfire management measures detailed in the endorsed subdivision stage BMP (Bushfire Safety Consulting 2018) have been implemented as intended throughout the duration of subdivisional works (see Table 3).

Table 3: BMP implementation actions

No.	Action	Status	Evidence	Certification by bushfire consultant
1	Construct the public roads to the standards stated in the BMP	Complete, with works bonded	All required public roads have been constructed (or had works bonded) to meet the technical requirements of the Guidelines, as per civil engineering plans contained in Appendix B. Some of these works, although not fully constructed on ground at the time of audit, are bonded to ensure delivery of works prior to site occupancy.	Zac Cockerill (Level 2 BPAD37803) 
2	Establish the Public Open Space in a 'low threat' state as stated in the BMP	Complete	The internal POS areas have been established as low threat, in accordance with AS 3959 Clause 2.2.3.2 (f), as depicted in Appendix C, <i>Plot 3</i> . The POS areas contain irrigated turf, mulched garden beds, paths and recreation facilities, as illustrated in the respective landscaping drawings contained in Appendix D.	Zac Cockerill (Level 2 BPAD37803) 
3	Maintain fuel loads and vegetation structure standards to comply with Asset Protection Zone Standards outlined in this report.	Complete	The entire project area and surrounding Eden Beach development footprint has been completely cleared to mineral earth to achieve exclusion under Clauses 2.2.3.2 (e) and (f) and APZ standards, as depicted in Appendix C, <i>Plot 3</i> . The land abutting Stage 40 lots at the northern interface of the project area has been cleared for development of Stage 25. Land beyond Stage 25 that is within the 150 m assessment area has been cleared in preparation of future residential development within the respective Trinity/Alkimos Beach sites (Figure 1), with ongoing slashing being undertaken as required. Roads, low threat POS and pedestrian pathways have been established to provide the necessary separation between classified vegetation and proposed habitable buildings at the various vegetation interfaces. On this basis, the necessary low threat areas within and surrounding the project area have been established to achieve the intended BAL ratings.	Zac Cockerill (Level 2 BPAD37803) 
4	Ensure revegetation of the batters on the western perimeter of the site is composed of species that do not exceed 2m in height	Complete	Revegetation of shrubland species has occurred on the batters within the foreshore reserve along the western interface of the site, as depicted in Appendix C, <i>Photo 1E, 2C and 2H</i> . Appendix D provides the landscaping plan with details of the shrubland species mix planted on the foreshore batters.	Zac Cockerill (Level 2 BPAD37803) 
5	Ensure that all lots comply with the City of Wanneroo's Firebreak Notice as published.	Complete	The project area and surrounding Eden Beach development footprint is completely cleared with ongoing slashing being undertaken as required, confirmed during site audit on 20 July 2022. This meets the City's Firebreak requirements.	Zac Cockerill (Level 2 BPAD37803) 

No.	Action	Status	Evidence	Certification by bushfire consultant
6	A notification, pursuant to Section 70A of the Transfer of Land Act 1893 is to be placed on the certificate(s) of title of the lots within the Bushfire Prone Area. Notice of this notification is to be included on the diagram or plan of survey (deposited plan). The notification is to state as follows: 'The lot(s) is/are subject to a Bushfire Management Plan.' (Local Government)".	N/A	To be undertaken by others at creation of title, as per the Deposited Plans.	N/A
7	Establish access and water supply to standards as specified in this document.	Complete, with works bonded	Refer to Item 1 for information relating to vehicular access requirements. The required reticulated water and street hydrant network have been constructed (or had works bonded) to meet the technical requirements of the Guidelines, as per water reticulation plans contained in Appendix E. Some of these works, although not fully constructed on ground at the time of audit, are bonded to ensure delivery of works prior to site occupancy.	Zac Cockerill (Level 2 BPAD37803) 

3. Bushfire assessment results

3.1 Assessment inputs

3.1.1 Vegetation classification

Strategen-JBS&G assessed classified vegetation and exclusions within the 150 m assessment area through on-ground verification on 20 July 2022 in accordance with AS 3959—2018 *Construction of Buildings in Bushfire-Prone Areas* (AS 3959; SA 2018) and the *Visual Guide for Bushfire Risk Assessment in Western Australia* (DoP 2016). Georeferenced site photos and a description of the vegetation classifications and exclusions are contained in Appendix C and depicted in Figure 1.

Site observations indicate that the current on-ground vegetation classifications and exclusions generally align with those from the endorsed subdivision stage BMP (Bushfire Safety Consulting 2018), as per the following observation:

- continuous shrubland vegetation less than 2 m in height runs parallel to the western boundary of the project area associated with the coastal dunes and batters within the foreshore reserve.

All remaining land situated within 150m of the project area was identified to be excluded from classification as being either non-vegetated or managed to a low threat state. These areas include land cleared for existing and future residential development, low threat managed landscaped areas/POS, verge treatments, roads and pedestrian paths, which are excluded from classification under Clauses 2.2.3.2 (e) and (f).

3.1.2 Effective slope

Strategen-JBS&G assessed effective slope under classified vegetation within the 150 m assessment area through on-ground verification on 20 July 2022 in accordance with AS 3959. Results were cross-referenced with DPIRD 2 m contour data and are depicted in Figure 1.

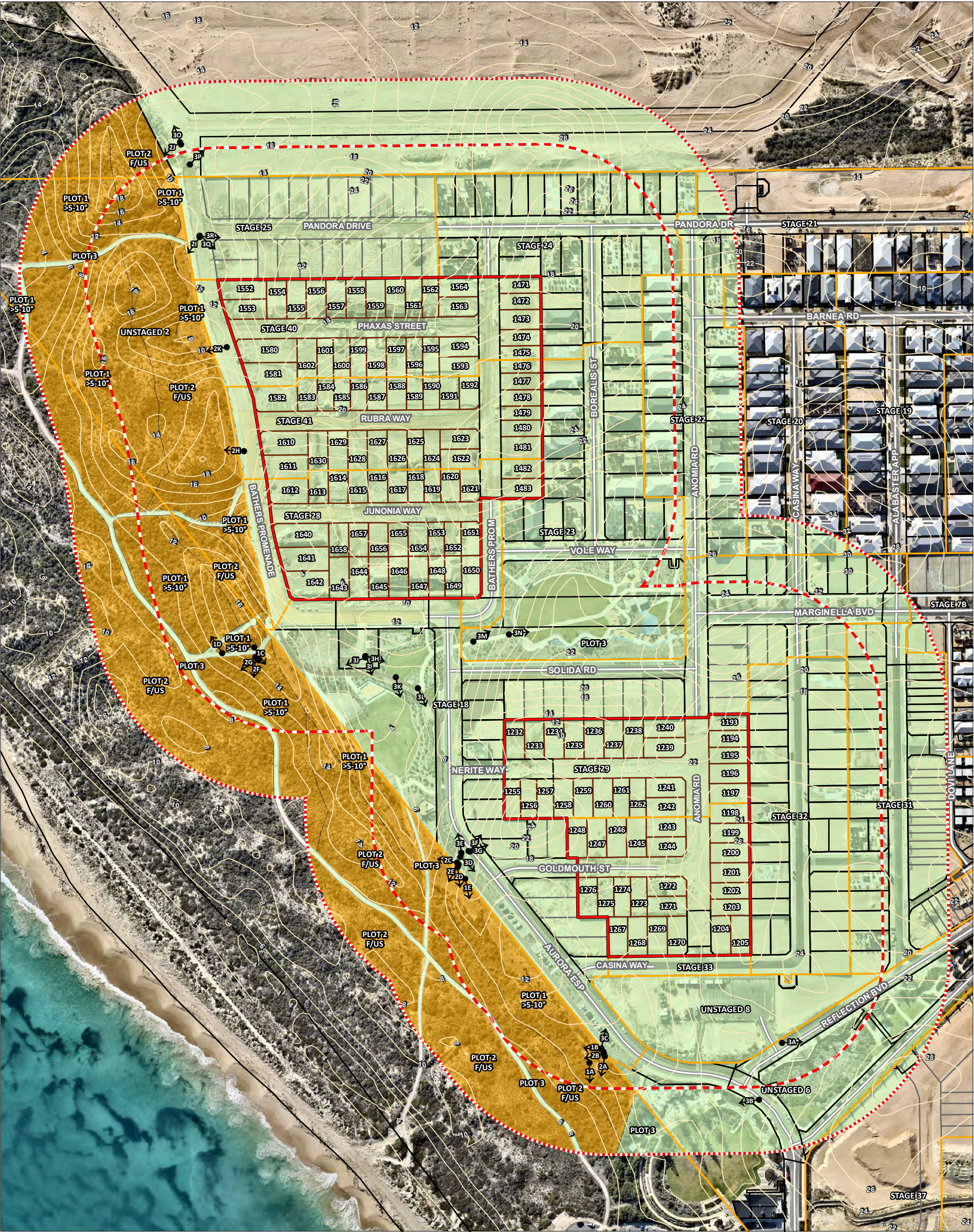
Site observations indicated that effective slope under the classified vegetation generally aligns with the effective slopes identified within the endorsed BMP (Bushfire Safety Consulting 2018), including a combination of variable slopes associated with the undulating dunal area ranging from flat/upslope to downslope with gradients of >5–10°.

3.1.3 Summary of inputs

Figure 1 illustrates the current vegetation classifications and exclusions observed during site inspection. The vegetation classifications/exclusions and effective slope are summarised in Table 4.

Table 4: Summary of vegetation classifications, exclusions and effective slope

Vegetation plot	Vegetation classification	Effective slope	Comments
1	Class C Shrubland	Downslope >5–10°	Remnant native coastal shrubland, less than 2 m in height associated with coastal sand dunes and revegetated foreshore batters.
2	Class C Shrubland	Flat/upslope (0°)	Remnant native coastal shrubland, less than 2 m in height associated with coastal sand dunes.
3	Excluded – Non-vegetated and Low threat (Clause 2.2.3.2 [e] and [f])	N/A	Existing non-vegetated areas (i.e. roads, buildings, cleared vacant lots, driveways, footpaths, earthworked land) and low threat managed vegetation (i.e. mown grass/turf areas, managed gardens, road verges, slashed buffers, managed POS).



Legend	
	Project area
	100m assessment area
	150m assessment area
	Cadastral boundary
	Stage boundaries
	Proposed lots
	Future indicative lot layout on adjacent stages
Vegetation classification	
	Class C Shrubland
	Clause 2.2.3.2 (e) & (f)
	Topographic contours (mAHD)
	Photo point directions
	Roads



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Client: Satterley Property Group

Drawn By: jcrute

Checked By: CT



Scale 1:2,701 at A3

Coord. Sys. GDA 1994 MGA Zone 50

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Date: 23-Sep-2022

Edén Beach,
Stages 40, 41, 28, 29 and 33,
Jindalee, WA

VEGETATION CLASSIFICATION
AND EFFECTIVE SLOPE

FIGURE: 1

3.2 Assessment outputs

3.2.1 Bushfire Attack Level (BAL) contour assessment

Strategen-JBS&G has undertaken a BAL contour assessment in accordance with Method 1 of AS 3959 for the project area. The Method 1 procedure incorporates the following factors:

- state adopted FDI 80 rating
- vegetation classification
- effective slope
- distance maintained between proposed development areas and the classified vegetation

The BAL contours are based on the current on-ground site conditions confirmed during site assessment and results are detailed in Table 5 and illustrated in Figure 2.

Table 5: BAL contour assessment results

Lot	Bushfire prone	Vegetation plot	Vegetation classification	Effective slope	Separation distance	Highest BAL	Building setback to achieve lower BAL*	Reduced BAL*
Stage 28								
1482	No			N/A				
1483	No			N/A				
1612	Yes	Plot 1	Class C Shrubland	Downslope >5–10°	18 m	BAL-19	7 m front setback	BAL-12.5
1613	Yes	Plot 1	Class C Shrubland	Downslope >5–10°	47 m	BAL-12.5	N/A	
1614	Yes	Plot 1	Class C Shrubland	Downslope >5–10°	62 m	BAL-12.5	N/A	
1615	Yes	Plot 1	Class C Shrubland	Downslope >5–10°	77 m	BAL-12.5	N/A	
1616	Yes	Plot 1	Class C Shrubland	Downslope >5–10°	92 m	BAL-12.5	N/A	
1617	Yes	Plot 1	Class C Shrubland	Downslope >5–10°	>100 m	BAL-LOW	N/A	
1618	No			N/A				
1619	No			N/A				
1620	No			N/A				
1621	No			N/A				
1640	Yes	Plot 1	Class C Shrubland	Downslope >5–10°	18 m	BAL-19	7 m front setback	BAL-12.5
1641	Yes	Plot 1	Class C Shrubland	Downslope >5–10°	18 m	BAL-19	7 m front setback	BAL-12.5
1642	Yes	Plot 1	Class C Shrubland	Downslope >5–10°	18 m	BAL-19	7 m front setback	BAL-12.5
1643	Yes	Plot 1	Class C Shrubland	Downslope >5–10°	47 m	BAL-12.5	N/A	
1644	Yes	Plot 1	Class C Shrubland	Downslope >5–10°	61 m	BAL-12.5	N/A	
1645	Yes	Plot 1	Class C Shrubland	Downslope >5–10°	76 m	BAL-12.5	N/A	
1646	Yes	Plot 1	Class C Shrubland	Downslope >5–10°	87 m	BAL-12.5	N/A	
1647	Yes	Plot 1	Class C Shrubland	Downslope >5–10°	99 m	BAL-12.5	1 m truncated front/side setback	BAL-LOW
1648	No			N/A				
1649	No			N/A				
1650	No			N/A				
1651	No			N/A				
1652	No			N/A				
1653	No			N/A				
1654	Yes	Plot 1	Class C Shrubland	Downslope >5–10°	>100 m	BAL-LOW	N/A	
1655	Yes	Plot 1	Class C Shrubland	Downslope >5–10°	98 m	BAL-12.5	2 m truncated rear/side setback	BAL-LOW

Lot	Bushfire prone	Vegetation plot	Vegetation classification	Effective slope	Separation distance	Highest BAL	Building setback to achieve lower BAL*	Reduced BAL*
1656	Yes	Plot 1	Class C Shrubland	Downslope >5–10°	83 m	BAL-12.5	N/A	
1657	Yes	Plot 1	Class C Shrubland	Downslope >5–10°	69 m	BAL-12.5	N/A	
1658	Yes	Plot 1	Class C Shrubland	Downslope >5–10°	54 m	BAL-12.5	N/A	
Stage 29								
1193	No			N/A				
1194	No			N/A				
1195	No			N/A				
1196	No			N/A				
1197	No			N/A				
1232	Yes	Plot 1	Class C Shrubland	Downslope >5–10°	80 m	BAL-12.5	N/A	
1233	Yes	Plot 1	Class C Shrubland	Downslope >5–10°	92 m	BAL-12.5	N/A	
1234	Yes	Plot 1	Class C Shrubland	Downslope >5–10°	>100 m	BAL-LOW	N/A	
1235	No			N/A				
1236	No			N/A				
1237	No			N/A				
1238	No			N/A				
1239	No			N/A				
1240	No			N/A				
1241	No			N/A				
1242	No			N/A				
1255	Yes	Plot 1	Class C Shrubland	Downslope >5–10°	52 m	BAL-12.5	N/A	
1256	Yes	Plot 1	Class C Shrubland	Downslope >5–10°	61 m	BAL-12.5	N/A	
1257	Yes	Plot 1	Class C Shrubland	Downslope >5–10°	71 m	BAL-12.5	N/A	
1258	Yes	Plot 1	Class C Shrubland	Downslope >5–10°	81 m	BAL-12.5	N/A	
1259	Yes	Plot 1	Class C Shrubland	Downslope >5–10°	92 m	BAL-12.5	N/A	
1260	No			N/A				
1261	No			N/A				
1262	No			N/A				
Stage 33								
1198	No			N/A				
1199	No			N/A				
1200	No			N/A				
1201	No			N/A				
1202	No			N/A				
1203	No			N/A				
1204	No			N/A				
1205	No			N/A				
1243	No			N/A				
1244	No			N/A				
1245	No			N/A				
1246	Yes	Plot 1	Class C Shrubland	Downslope >5–10°	93 m	BAL-12.5	N/A	
1247	Yes	Plot 1	Class C Shrubland	Downslope >5–10°	82 m	BAL-12.5	N/A	
1248	Yes	Plot 1	Class C Shrubland	Downslope >5–10°	70 m	BAL-12.5	N/A	
1267	Yes	Plot 1	Class C Shrubland	Downslope >5–10°	47 m	BAL-12.5	N/A	
1268	Yes	Plot 1	Class C Shrubland	Downslope >5–10°	59 m	BAL-12.5	N/A	
1269	Yes	Plot 1	Class C Shrubland	Downslope >5–10°	71 m	BAL-12.5	N/A	
1270	Yes	Plot 1	Class C Shrubland	Downslope >5–10°	82 m	BAL-12.5	N/A	
1271	Yes	Plot 1	Class C Shrubland	Downslope >5–10°	90 m	BAL-12.5	N/A	
1272	Yes	Plot 1	Class C Shrubland	Downslope >5–10°	99 m	BAL-12.5	1 m truncated rear/side setback	BAL-LOW
1273	Yes	Plot 1	Class C Shrubland	Downslope >5–10°	80 m	BAL-12.5	N/A	
1274	Yes	Plot 1	Class C Shrubland	Downslope >5–10°	70 m	BAL-12.5	N/A	
1275	Yes	Plot 1	Class C Shrubland	Downslope >5–10°	60 m	BAL-12.5	N/A	
1276	Yes	Plot 1	Class C Shrubland	Downslope >5–10°	49 m	BAL-12.5	N/A	

Lot	Bushfire prone	Vegetation plot	Vegetation classification	Effective slope	Separation distance	Highest BAL	Building setback to achieve lower BAL*	Reduced BAL*
Stage 40								
1471	Yes	Plot 1	Class C Shrubland	Downslope >5-10°	>100 m	BAL-LOW	N/A	
1472	Yes	Plot 1	Class C Shrubland	Downslope >5-10°	>100 m	BAL-LOW	N/A	
1473	No			N/A				
1474	No			N/A				
1475	No			N/A				
1552	Yes	Plot 1	Class C Shrubland	Downslope >5-10°	18 m	BAL-19	7 m front setback	BAL-12.5
1553	Yes	Plot 1	Class C Shrubland	Downslope >5-10°	18 m	BAL-19	7 m front setback	BAL-12.5
1554	Yes	Plot 1	Class C Shrubland	Downslope >5-10°	47 m	BAL-12.5	N/A	
1555	Yes	Plot 1	Class C Shrubland	Downslope >5-10°	61 m	BAL-12.5	N/A	
1556	Yes	Plot 1	Class C Shrubland	Downslope >5-10°	75 m	BAL-12.5	N/A	
1557	Yes	Plot 1	Class C Shrubland	Downslope >5-10°	90 m	BAL-12.5	N/A	
1558	Yes	Plot 1	Class C Shrubland	Downslope >5-10°	>100 m	BAL-LOW	N/A	
1559	Yes	Plot 1	Class C Shrubland	Downslope >5-10°	>100 m	BAL-LOW	N/A	
1560	Yes	Plot 1	Class C Shrubland	Downslope >5-10°	>100 m	BAL-LOW	N/A	
1561	Yes	Plot 1	Class C Shrubland	Downslope >5-10°	>100 m	BAL-LOW	N/A	
1562	Yes	Plot 1	Class C Shrubland	Downslope >5-10°	>100 m	BAL-LOW	N/A	
1563	Yes	Plot 1	Class C Shrubland	Downslope >5-10°	>100 m	BAL-LOW	N/A	
1564	Yes	Plot 1	Class C Shrubland	Downslope >5-10°	>100 m	BAL-LOW	N/A	
1580	Yes	Plot 1	Class C Shrubland	Downslope >5-10°	18 m	BAL-19	7 m front setback	BAL-12.5
1581	Yes	Plot 1	Class C Shrubland	Downslope >5-10°	18 m	BAL-19	7 m truncated front setback	BAL-12.5
1593	No			N/A				
1594	No			N/A				
1595	No			N/A				
1596	No			N/A				
1597	No			N/A				
1598	Yes	Plot 2	Class C Shrubland	Flat/upslope (0°)	>100 m	BAL-LOW	N/A	
1599	Yes	Plot 2	Class C Shrubland	Flat/upslope (0°)	93 m	BAL-12.5	N/A	
1600	Yes	Plot 2	Class C Shrubland	Flat/upslope (0°)	81 m	BAL-12.5	N/A	
1601	Yes	Plot 2	Class C Shrubland	Flat/upslope (0°)	69 m	BAL-12.5	N/A	
1602	Yes	Plot 2	Class C Shrubland	Flat/upslope (0°)	55 m	BAL-12.5	N/A	
Stage 41								
1476	No			N/A				
1477	No			N/A				
1478	No			N/A				
1479	No			N/A				
1480	No			N/A				
1481	No			N/A				
1582	Yes	Plot 2	Class C Shrubland	Flat/upslope (0°)	18 m	BAL-19	1 m front setback	BAL-12.5
1583	Yes	Plot 2	Class C Shrubland	Flat/upslope (0°)	50 m	BAL-12.5	N/A	
1584	Yes	Plot 2	Class C Shrubland	Flat/upslope (0°)	64 m	BAL-12.5	N/A	
1585	Yes	Plot 2	Class C Shrubland	Flat/upslope (0°)	77 m	BAL-12.5	N/A	
1586	Yes	Plot 2	Class C Shrubland	Flat/upslope (0°)	89 m	BAL-12.5	N/A	
1587	Yes	Plot 2	Class C Shrubland	Flat/upslope (0°)	>100 m	BAL-LOW	N/A	
1588	No			N/A				
1589	No			N/A				
1590	No			N/A				
1591	No			N/A				
1592	No			N/A				

Lot	Bushfire prone	Vegetation plot	Vegetation classification	Effective slope	Separation distance	Highest BAL	Building setback to achieve lower BAL*	Reduced BAL*
1610	Yes	Plot 2	Class C Shrubland	Flat/upslope (0°)	18 m	BAL-19	1 m front setback	BAL-12.5
1611	Yes	Plot 1	Class C Shrubland	Downslope >5-10°	18 m	BAL-19	7 m truncated front setback	BAL-12.5
1622	No	N/A						
1623	No	N/A						
1624	No	N/A						
1625	No	N/A						
1626	Yes	Plot 2	Class C Shrubland	Flat/upslope (0°)	>100 m	BAL-LOW	N/A	
1627	Yes	Plot 2	Class C Shrubland	Flat/upslope (0°)	95 m	BAL-12.5	N/A	
1628	Yes	Plot 2	Class C Shrubland	Flat/upslope (0°)	80 m	BAL-12.5	N/A	
1629	Yes	Plot 2	Class C Shrubland	Flat/upslope (0°)	65 m	BAL-12.5	N/A	
1630	Yes	Plot 2	Class C Shrubland	Flat/upslope (0°)	50 m	BAL-12.5	N/A	

* The reduced BAL in Table 5 can only be confirmed once the building plan for the relevant lot has been prepared to demonstrate compliance with the recommended building setback. Once the setback has been confirmed, a new BAL certificate for the reduced BAL rating can be prepared and issued to accompany the building permit application.

3.2.2 BAL certificates

BAL certificates have been provided for the 75 lots that are situated within a designated bushfire prone area and are provided in Appendix A in accordance with BAL contour assessment results detailed in Table 5 and Figure 2.

4. Conclusion and recommendations

This BMP compliance and condition clearance report has been prepared for Stages 28, 29, 33, 40 and 41, Eden Beach Estate Jindalee, within the City of Wanneroo. This report addresses Conditions 13 and 15 under the respective WAPC subdivision approval Refs. 159574 and 157558, as well as providing an updated BAL assessment and BAL certificates for 75 of the 137 proposed lots that are situated within a designated bushfire prone area.

Assessment results are consistent with current on-ground conditions, as captured during site audit on 20 July 2022. Strategen-JBS&G can confirm that the relevant management actions from the Bushfire Safety Consulting (2018) subdivision stage BMP have been implemented and maintained throughout the duration of subdivisional works. On this basis, the proposed residential lots have been established to comply with all necessary bushfire requirements of the BMP and the Guidelines; and the abovementioned conditions have therefore been suitably addressed.

Ongoing requirements of the current City of Wanneroo annual firebreak notice should continue to be implemented as required, particularly with regards to ongoing fuel management of vacant residential lots once titled.

5. References

- Bushfire Safety Consulting 2018, *Bushfire Management Plan (Subdivision Application) Lot 9029 Marmion Avenue Eden Beach*, report prepared for Satterley Property Group, December 2018.
- Cossill and Webley Consulting Engineers 2022a, *Proposed Construction of Retaining Walls, Roadworks, Drainage, Sewerage, Water Reticulation & Services, Eden Beach (Lot 9 Jindalee) Stage 25*, Cossill and Webley Consulting Engineers, Perth.
- Cossill and Webley Consulting Engineers 2022b, *Proposed Construction of Retaining Walls, Roadworks, Drainage, Sewerage, Water Reticulation & Services, Eden Beach (Lot 9 Jindalee) Stage 28*, Cossill and Webley Consulting Engineers, Perth.
- Cossill and Webley Consulting Engineers 2022c, *Proposed Construction of Retaining Walls, Roadworks, Drainage, Sewerage, Water Reticulation & Services, Eden Beach (Lot 9 Jindalee) Stage 29*, Cossill and Webley Consulting Engineers, Perth.
- Cossill and Webley Consulting Engineers 2022d, *Proposed Construction of Retaining Walls, Roadworks, Drainage, Sewerage, Water Reticulation & Services, Eden Beach (Lot 9 Jindalee) Stage 40*, Cossill and Webley Consulting Engineers, Perth.
- Department of Fire and Emergency Services (DFES) 2021, *Map of Bush Fire Prone Areas*, [Online], Government of Western Australia, available from: <https://maps.slip.wa.gov.au/landgate/bushfireprone/>, [6/06/2022].
- Department of Planning (DoP) 2016, *Visual guide for bushfire risk assessment in Western Australia*, Department of Planning, Perth.
- Standards Australia (SA) 2018, *Australian Standard AS 3959–2018 Construction of Buildings in Bushfire-prone Areas*, Standards Australia, Sydney.
- Western Australian Planning Commission (WAPC) 2021, *Guidelines for Planning in Bushfire Prone Areas, Version 1.4 December 2021*, Western Australian Planning Commission, Perth.

6. Limitations

Scope of services

This report ("the report") has been prepared by Strategen-JBS&G in accordance with the scope of services set out in the contract, or as otherwise agreed, between the Client and Strategen-JBS&G. In some circumstances, a range of factors such as time, budget, access and/or site disturbance constraints may have limited the scope of services. This report is strictly limited to the matters stated in it and is not to be read as extending, by implication, to any other matter in connection with the matters addressed in it.

Reliance on data

In preparing the report, Strategen-JBS&G has relied upon data and other information provided by the Client and other individuals and organisations, most of which are referred to in the report ("the data"). Except as otherwise expressly stated in the report, Strategen-JBS&G has not verified the accuracy or completeness of the data. To the extent that the statements, opinions, facts, information, conclusions and/or recommendations in the report ("conclusions") are based in whole or part on the data, those conclusions are contingent upon the accuracy and completeness of the data. Strategen-JBS&G has also not attempted to determine whether any material matter has been omitted from the data. Strategen-JBS&G will not be liable in relation to incorrect conclusions should any data, information or condition be incorrect or have been concealed, withheld, misrepresented or otherwise not fully disclosed to Strategen-JBS&G. The making of any assumption does not imply that Strategen-JBS&G has made any enquiry to verify the correctness of that assumption.

The report is based on conditions encountered and information received at the time of preparation of this report or the time that site investigations were carried out. Strategen-JBS&G disclaims responsibility for any changes that may have occurred after this time. This report and any legal issues arising from it are governed by and construed in accordance with the law of Western Australia as at the date of this report.

Environmental conclusions

Within the limitations imposed by the scope of services, the preparation of this report has been undertaken and performed in a professional manner, in accordance with generally accepted environmental consulting practices. No other warranty, whether express or implied, is made.

The advice herein relates only to this project and all results conclusions and recommendations made should be reviewed by a competent person with experience in environmental investigations, before being used for any other purpose.

Strategen-JBS&G accepts no liability for use or interpretation by any person or body other than the client who commissioned the works. This report should not be reproduced without prior approval by the client, or amended in any way without prior approval by Strategen-JBS&G, and should not be relied upon by other parties, who should make their own enquiries.

Appendix A BAL Certificates

Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2018

This Certificate has been issued by a person accredited by Fire Protection Association Australia under the Bushfire Planning and Design (BPAD) Accreditation Scheme. The certificate details the conclusions of the full Bushfire Attack Level Assessment Report (full report) prepared by the Accredited Practitioner.

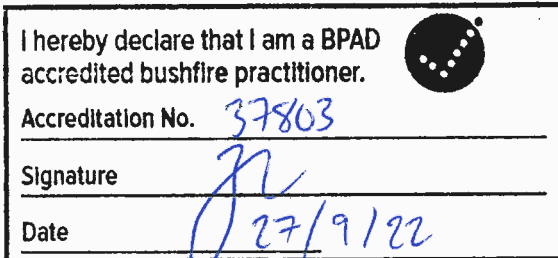
Property Details and Description of Works

Address Details	Unit no	Street no	Lot no 1232	Street name / Plan Reference Nerite Way		
	Suburb Jindalee			State WA	Postcode 6036	
Local government area	City of Wanneroo					
Main BCA class of the building	Class 1a	Use(s) of the building		Residential dwelling		
Description of the building or works	Construction of a single Class 1a building and associated Class 10a building/s					

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class C Shrubland	Downslope >5–10°	80 m	BAL – 12.5

BPAD Accredited Practitioner Details

Name Zac Cockerill Company Details JBS&G Australia Pty Ltd T/A Strategen JBS&G I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2018.	 <p>I hereby declare that I am a BPAD accredited bushfire practitioner.</p> <p>Accreditation No. 37803</p> <p>Signature [Signature]</p> <p>Date 27/9/22</p>

Authorised Practitioner Stamp

Reliance on the assessment and determination of the Bushfire Attack Level contained in this certificate should not extend beyond a period of 12 months from the date of issue of the certificate. If this certificate was issued more than 12 months ago, it is recommended that the validity of the determination be confirmed with the Accredited Practitioner and where required an updated certificate issued.

Bushfire Attack Level (BAL) Certificate

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Property Details and Description of Works

Address Details	Unit no	Street no	Lot no 1233	Street name / Plan Reference Nerite Way		
	Suburb Jindalee			State WA	Postcode 6036	
Local government area	City of Wanneroo					
Main BCA class of the building	Class 1a	Use(s) of the building		Residential dwelling		
Description of the building or works	Construction of a single Class 1a building and associated Class 10a building/s					

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class C Shrubland	Downslope >5–10°	92 m	BAL – 12.5

BPAD Accredited Practitioner Details

Name Zac Cockerill Company Details JBS&G Australia Pty Ltd T/A Strategen JBS&G I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2018.	<div style="border: 1px solid black; padding: 5px;"> <p>I hereby declare that I am a BPAD accredited bushfire practitioner.</p> <p>Accreditation No. <u>37863</u></p> <p>Signature <u>[Signature]</u></p> <p>Date <u>27/9/22</u></p> </div>

Authorised Practitioner Stamp

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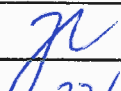
Property Details and Description of Works

Address Details	Unit no	Street no	Lot no	Street name / Plan Reference		
			1234	Nerite Way		
Local government area	Suburb			State		Postcode
	Jindalee			WA		6036
Main BCA class of the building	City of Wanneroo					
Description of the building or works	Class 1a	Use(s) of the building	Residential dwelling			
	Construction of a single Class 1a building and associated Class 10a building/s					

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class C Shrubland	Downslope >5–10°	>100 m	BAL – LOW

BPAD Accredited Practitioner Details

Name Zac Cockerill Company Details JBS&G Australia Pty Ltd T/A Strategen JBS&G I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2018.	<div style="border: 1px solid black; padding: 5px;"> <p>I hereby declare that I am a BPAD accredited bushfire practitioner. </p> <p>Accreditation No. <u>37863</u></p> <p>Signature <u></u></p> <p>Date <u>27/9/22</u></p> </div>

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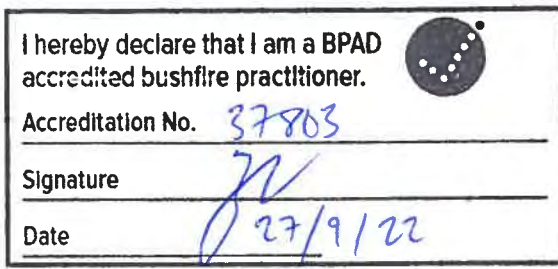
Property Details and Description of Works

Address Details	Unit no	Street no	Lot no	Street name / Plan Reference		
			1246	Goldmouth Street		
Local government area	Suburb			State		Postcode
	Jindalee			WA		6036
Main BCA class of the building	City of Wanneroo					
	Class 1a	Use(s) of the building		Residential dwelling		
	Construction of a single Class 1a building and associated Class 10a building/s					

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class C Shrubland	Downslope >5–10°	93 m	BAL – 12.5

BPAD Accredited Practitioner Details

Name Zac Cockerill Company Details JBS&G Australia Pty Ltd T/A Strategen JBS&G I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2018.	 <p>I hereby declare that I am a BPAD accredited bushfire practitioner.</p> <p>Accreditation No. 37803</p> <p>Signature [Signature]</p> <p>Date 27/9/22</p>

Authorised Practitioner Stamp

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Bushfire Attack Level (BAL) Certificate

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Property Details and Description of Works

Address Details	Unit no	Street no	Lot no	Street name / Plan Reference		
			1247	Goldmouth Street		
Local government area	Suburb			State		Postcode
	Jindalee			WA		6036
Main BCA class of the building	City of Wanneroo					
Description of the building or works	Class 1a	Use(s) of the building		Residential dwelling		
	Construction of a single Class 1a building and associated Class 10a building/s					

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class C Shrubland	Downslope >5–10°	82 m	BAL – 12.5

BPAD Accredited Practitioner Details

Name Zac Cockerill Company Details JBS&G Australia Pty Ltd T/A Strategen JBS&G I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2018.	<div style="border: 1px solid black; padding: 10px;"> <p>I hereby declare that I am a BPAD accredited bushfire practitioner.</p> <p>Accreditation No. <u>37803</u></p> <p>Signature <u>[Signature]</u></p> <p>Date <u>27/9/22</u></p> </div>

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Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2018

This Certificate has been issued by a person accredited by Fire Protection Association Australia under the Bushfire Planning and Design (BPAD) Accreditation Scheme. The certificate details the conclusions of the full Bushfire Attack Level Assessment Report (full report) prepared by the Accredited Practitioner.

Property Details and Description of Works

Address Details	Unit no	Street no	Lot no	Street name / Plan Reference		
			1248	Goldmouth Street		
Local government area	Suburb			State		Postcode
	Jindalee			WA		6036
Main BCA class of the building	City of Wanneroo					
Description of the building or works	Class 1a	Use(s) of the building	Residential dwelling			
	Construction of a single Class 1a building and associated Class 10a building/s					

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class C Shrubland	Downslope >5–10°	70 m	BAL – 12.5

BPAD Accredited Practitioner Details

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Determined in accordance with AS 3959-2018

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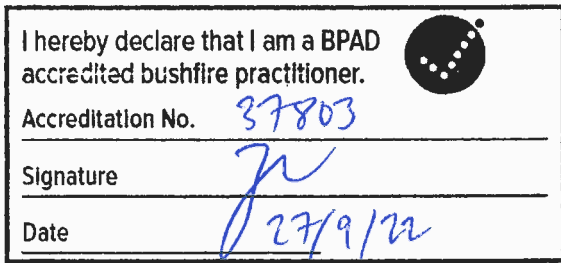
Property Details and Description of Works

Address Details	Unit no	Street no	Lot no 1255	Street name / Plan Reference Nerite Way		
	Suburb Jindalee			State WA	Postcode 6036	
Local government area	City of Wanneroo					
Main BCA class of the building	Class 1a	Use(s) of the building		Residential dwelling		
Description of the building or works	Construction of a single Class 1a building and associated Class 10a building/s					

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class C Shrubland	Downslope >5-10°	52 m	BAL - 12.5

BPAD Accredited Practitioner Details

Name Zac Cockerill Company Details JBS&G Australia Pty Ltd T/A Strategen JBS&G I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2018.	 <p>I hereby declare that I am a BPAD accredited bushfire practitioner.</p> <p>Accreditation No. 37803</p> <p>Signature [Signature]</p> <p>Date 27/9/22</p>

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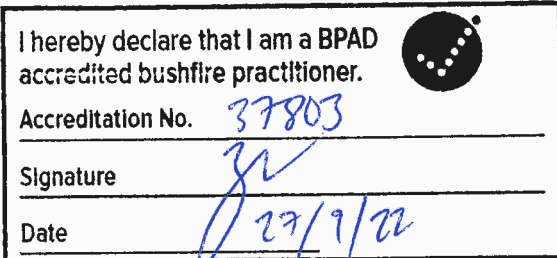
Property Details and Description of Works

Address Details	Unit no	Street no	Lot no 1256	Street name / Plan Reference Nerite Way		
	Suburb Jindalee			State WA	Postcode 6036	
Local government area	City of Wanneroo					
Main BCA class of the building	Class 1a	Use(s) of the building		Residential dwelling		
Description of the building or works	Construction of a single Class 1a building and associated Class 10a building/s					

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class C Shrubland	Downslope >5–10°	61 m	BAL – 12.5

BPAD Accredited Practitioner Details

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Bushfire Attack Level (BAL) Certificate

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Property Details and Description of Works

Address Details	Unit no	Street no	Lot no	Street name / Plan Reference		
			1257	Nerite Way		
Local government area	Suburb			State		Postcode
	Jindalee			WA		6036
Main BCA class of the building	City of Wanneroo					
Description of the building or works	Class 1a	Use(s) of the building	Residential dwelling			
	Construction of a single Class 1a building and associated Class 10a building/s					

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class C Shrubland	Downslope >5-10°	71 m	BAL - 12.5

BPAD Accredited Practitioner Details

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Authorised Practitioner Stamp

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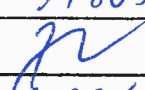
Property Details and Description of Works

Address Details	Unit no	Street no	Lot no 1258	Street name / Plan Reference Nerite Way		
	Suburb Jindalee			State WA	Postcode 6036	
Local government area	City of Wanneroo					
Main BCA class of the building	Class 1a	Use(s) of the building		Residential dwelling		
Description of the building or works	Construction of a single Class 1a building and associated Class 10a building/s					

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class C Shrubland	Downslope >5–10°	81 m	BAL – 12.5

BPAD Accredited Practitioner Details

Name Zac Cockerill	<div style="border: 1px solid black; padding: 10px;"> <p>I hereby declare that I am a BPAD accredited bushfire practitioner.</p> <p>Accreditation No. 37803</p> <p>Signature </p> <p>Date 27/9/22</p> </div>
Company Details JBS&G Australia Pty Ltd T/A Strategen JBS&G	
I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2018.	

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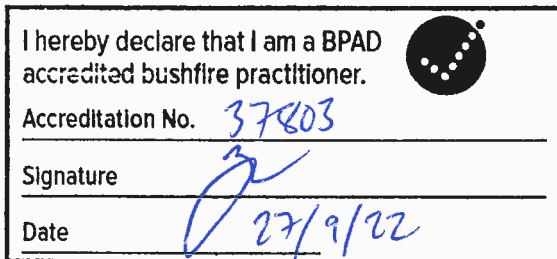
Property Details and Description of Works

Address Details	Unit no	Street no	Lot no 1259	Street name / Plan Reference Nerite Way		
	Suburb Jindalee			State WA	Postcode 6036	
Local government area	City of Wanneroo					
Main BCA class of the building	Class 1a	Use(s) of the building		Residential dwelling		
Description of the building or works	Construction of a single Class 1a building and associated Class 10a building/s					

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class C Shrubland	Downslope >5–10°	92 m	BAL – 12.5

BPAD Accredited Practitioner Details

Name Zac Cockerill Company Details JBS&G Australia Pty Ltd T/A Strategen JBS&G I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2018.	 <p>I hereby declare that I am a BPAD accredited bushfire practitioner.</p> <p>Accreditation No. 37803</p> <p>Signature [Signature]</p> <p>Date 27/9/22</p>

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Property Details and Description of Works

Address Details	Unit no	Street no	Lot no	Street name / Plan Reference		
			1267	Casina Way		
Local government area	Suburb			State		Postcode
	Jindalee			WA		6036
Main BCA class of the building	City of Wanneroo					
Description of the building or works	Class 1a	Use(s) of the building	Residential dwelling			
	Construction of a single Class 1a building and associated Class 10a building/s					

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class C Shrubland	Downslope >5-10°	47 m	BAL – 12.5

BPAD Accredited Practitioner Details

Name Zac Cockerill Company Details JBS&G Australia Pty Ltd T/A Strategen JBS&G I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2018.	<div style="border: 1px solid black; padding: 10px;"> <p>I hereby declare that I am a BPAD accredited bushfire practitioner.</p> <p>Accreditation No. <u>37803</u></p> <p>Signature <u>[Signature]</u></p> <p>Date <u>27/9/22</u></p> </div>

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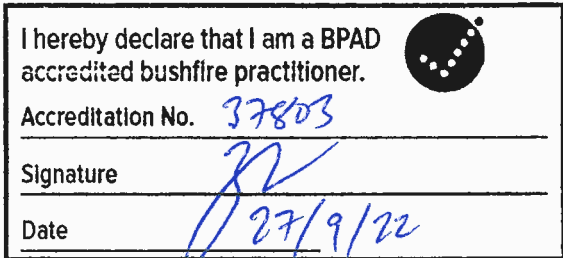
Property Details and Description of Works

Address Details	Unit no	Street no	Lot no 1268	Street name / Plan Reference Casina Way		
	Suburb Jindalee			State WA	Postcode 6036	
Local government area	City of Wanneroo					
Main BCA class of the building	Class 1a	Use(s) of the building		Residential dwelling		
Description of the building or works	Construction of a single Class 1a building and associated Class 10a building/s					

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class C Shrubland	Downslope >5–10°	59 m	BAL – 12.5

BPAD Accredited Practitioner Details

Name Zac Cockerill Company Details JBS&G Australia Pty Ltd T/A Strategen JBS&G I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2018.	 <p>I hereby declare that I am a BPAD accredited bushfire practitioner.</p> <p>Accreditation No. 37803</p> <p>Signature [Signature]</p> <p>Date 27/9/22</p>

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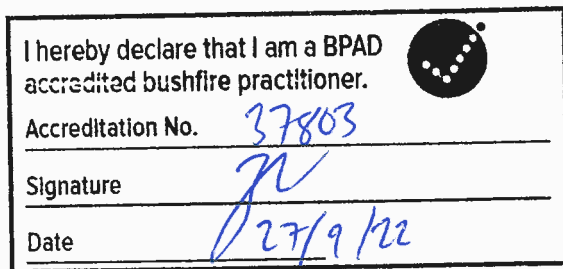
Property Details and Description of Works

Address Details	Unit no	Street no	Lot no 1269	Street name / Plan Reference Casina Way		
	Suburb Jindalee			State WA	Postcode 6036	
Local government area	City of Wanneroo					
Main BCA class of the building	Class 1a	Use(s) of the building		Residential dwelling		
Description of the building or works	Construction of a single Class 1a building and associated Class 10a building/s					

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class C Shrubland	Downslope >5-10°	71 m	BAL – 12.5

BPAD Accredited Practitioner Details

Name Zac Cockerill Company Details JBS&G Australia Pty Ltd T/A Strategen JBS&G I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2018.	 <p>I hereby declare that I am a BPAD accredited bushfire practitioner.</p> <p>Accreditation No. 37803</p> <p>Signature [Signature]</p> <p>Date 27/9/22</p>

Authorised Practitioner Stamp

Reliance on the assessment and determination of the Bushfire Attack Level contained in this certificate should not extend beyond a period of 12 months from the date of issue of the certificate. If this certificate was issued more than 12 months ago, it is recommended that the validity of the determination be confirmed with the Accredited Practitioner and where required an updated certificate issued.

Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2018

This Certificate has been issued by a person accredited by Fire Protection Association Australia under the Bushfire Planning and Design (BPAD) Accreditation Scheme. The certificate details the conclusions of the full Bushfire Attack Level Assessment Report (full report) prepared by the Accredited Practitioner.

Property Details and Description of Works

Address Details	Unit no	Street no	Lot no	Street name / Plan Reference		
			1270	Casina Way		
Local government area	Suburb			State		Postcode
	Jindalee			WA		6036
	City of Wanneroo					
Main BCA class of the building	Class 1a	Use(s) of the building		Residential dwelling		
Description of the building or works	Construction of a single Class 1a building and associated Class 10a building/s					

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class C Shrubland	Downslope >5–10°	82 m	BAL – 12.5

BPAD Accredited Practitioner Details

Name Zac Cockerill Company Details JBS&G Australia Pty Ltd T/A Strategen JBS&G I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2018.	<div style="border: 1px solid black; padding: 10px;"> <p>I hereby declare that I am a BPAD accredited bushfire practitioner.</p> <p>Accreditation No. <u>37803</u></p> <p>Signature <u>[Signature]</u></p> <p>Date <u>27/9/22</u></p> </div>

Authorised Practitioner Stamp

Reliance on the assessment and determination of the Bushfire Attack Level contained in this certificate should not extend beyond a period of 12 months from the date of issue of the certificate. If this certificate was issued more than 12 months ago, it is recommended that the validity of the determination be confirmed with the Accredited Practitioner and where required an updated certificate issued.

Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2018

This Certificate has been issued by a person accredited by Fire Protection Association Australia under the Bushfire Planning and Design (BPAD) Accreditation Scheme. The certificate details the conclusions of the full Bushfire Attack Level Assessment Report (full report) prepared by the Accredited Practitioner.

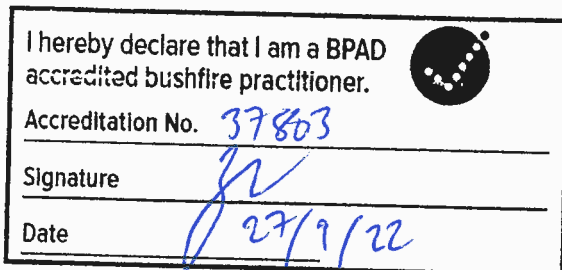
Property Details and Description of Works

Address Details	Unit no	Street no	Lot no	Street name / Plan Reference		
			1271	Anomia Road		
Local government area	Suburb			State		Postcode
	Jindalee			WA		6036
Main BCA class of the building	City of Wanneroo					
Description of the building or works	Class 1a	Use(s) of the building		Residential dwelling		
	Construction of a single Class 1a building and associated Class 10a building/s					

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class C Shrubland	Downslope >5–10°	90 m	BAL – 12.5

BPAD Accredited Practitioner Details

Name Zac Cockerill Company Details JBS&G Australia Pty Ltd T/A Strategen JBS&G I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2018.	 <p>I hereby declare that I am a BPAD accredited bushfire practitioner.</p> <p>Accreditation No. 37863</p> <p>Signature <i>[Signature]</i></p> <p>Date 27/1/22</p>

Authorised Practitioner Stamp

Reliance on the assessment and determination of the Bushfire Attack Level contained in this certificate should not extend beyond a period of 12 months from the date of issue of the certificate. If this certificate was issued more than 12 months ago, it is recommended that the validity of the determination be confirmed with the Accredited Practitioner and where required an updated certificate issued.

Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2018

This Certificate has been issued by a person accredited by Fire Protection Association Australia under the Bushfire Planning and Design (BPAD) Accreditation Scheme. The certificate details the conclusions of the full Bushfire Attack Level Assessment Report (full report) prepared by the Accredited Practitioner.


Property Details and Description of Works

Address Details	Unit no	Street no	Lot no	Street name / Plan Reference		
			1272	Anomia Road		
Local government area	Suburb			State		Postcode
	Jindalee			WA		6036
Main BCA class of the building	City of Wanneroo					
Description of the building or works	Class 1a	Use(s) of the building	Residential dwelling			
	Construction of a single Class 1a building and associated Class 10a building/s					

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class C Shrubland	Downslope >5–10°	99 m (lower BAL achievable with setback)	BAL – 12.5

BPAD Accredited Practitioner Details

Name Zac Cockerill Company Details JBS&G Australia Pty Ltd T/A Strategen JBS&G I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2018.	<div style="border: 1px solid black; padding: 10px;"> <p>I hereby declare that I am a BPAD accredited bushfire practitioner. </p> <p>Accreditation No. <u>37803</u></p> <p>Signature <u>[Signature]</u></p> <p>Date <u>27/9/22</u></p> </div> <p style="text-align: right; margin-top: 10px;">Authorised Practitioner Stamp</p>

Reliance on the assessment and determination of the Bushfire Attack Level contained in this certificate should not extend beyond a period of 12 months from the date of issue of the certificate. If this certificate was issued more than 12 months ago, it is recommended that the validity of the determination be confirmed with the Accredited Practitioner and where required an updated certificate issued.

Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2018

This Certificate has been issued by a person accredited by Fire Protection Association Australia under the Bushfire Planning and Design (BPAD) Accreditation Scheme. The certificate details the conclusions of the full Bushfire Attack Level Assessment Report (full report) prepared by the Accredited Practitioner.



Property Details and Description of Works

Address Details	Unit no	Street no	Lot no 1273	Street name / Plan Reference Goldmouth Street		
	Suburb Jindalee			State WA	Postcode 6036	
Local government area	City of Wanneroo					
Main BCA class of the building	Class 1a	Use(s) of the building		Residential dwelling		
Description of the building or works	Construction of a single Class 1a building and associated Class 10a building/s					

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class C Shrubland	Downslope >5-10°	80 m	BAL – 12.5

BPAD Accredited Practitioner Details

Name Zac Cockerill	<div><div>I hereby declare that I am a BPAD accredited bushfire practitioner.</div><div></div><div>Accreditation No. 37803</div><div>Signature </div><div>Date 1/27/9/22</div></div> <div>Authorised Practitioner Stamp</div>
Company Details JBS&G Australia Pty Ltd T/A Strategen JBS&G	
I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2018.	

Reliance on the assessment and determination of the Bushfire Attack Level contained in this certificate should not extend beyond a period of 12 months from the date of issue of the certificate. If this certificate was issued more than 12 months ago, it is recommended that the validity of the determination be confirmed with the Accredited Practitioner and where required an updated certificate issued.

Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2018

This Certificate has been issued by a person accredited by Fire Protection Association Australia under the Bushfire Planning and Design (BPAD) Accreditation Scheme. The certificate details the conclusions of the full Bushfire Attack Level Assessment Report (full report) prepared by the Accredited Practitioner.

Property Details and Description of Works

Address Details	Unit no	Street no	Lot no	Street name / Plan Reference		
			1274	Goldmouth Street		
Local government area	Suburb			State		Postcode
	Jindalee			WA		6036
Main BCA class of the building	City of Wanneroo					
Description of the building or works	Class 1a	Use(s) of the building	Residential dwelling			
	Construction of a single Class 1a building and associated Class 10a building/s					

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class C Shrubland	Downslope >5–10°	70 m	BAL – 12.5

BPAD Accredited Practitioner Details

Name Zac Cockerill Company Details JBS&G Australia Pty Ltd T/A Strategen JBS&G I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2018.	<div style="border: 1px solid black; padding: 10px;"> <p>I hereby declare that I am a BPAD accredited bushfire practitioner.</p> <p>Accreditation No. <u>37803</u></p> <p>Signature <u>[Signature]</u></p> <p>Date <u>27/9/22</u></p> </div>

Authorised Practitioner Stamp

Reliance on the assessment and determination of the Bushfire Attack Level contained in this certificate should not extend beyond a period of 12 months from the date of issue of the certificate. If this certificate was issued more than 12 months ago, it is recommended that the validity of the determination be confirmed with the Accredited Practitioner and where required an updated certificate issued.

Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2018

This Certificate has been issued by a person accredited by Fire Protection Association Australia under the Bushfire Planning and Design (BPAD) Accreditation Scheme. The certificate details the conclusions of the full Bushfire Attack Level Assessment Report (full report) prepared by the Accredited Practitioner.

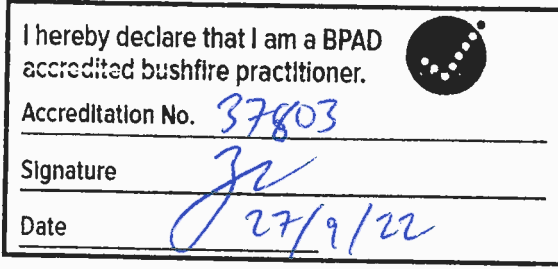
Property Details and Description of Works

Address Details	Unit no	Street no	Lot no	Street name / Plan Reference		
			1275	Goldmouth Street		
Local government area	Suburb			State		Postcode
	Jindalee			WA		6036
Main BCA class of the building	City of Wanneroo					
Description of the building or works	Class 1a	Use(s) of the building	Residential dwelling			
	Construction of a single Class 1a building and associated Class 10a building/s					

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class C Shrubland	Downslope >5–10°	60 m	BAL – 12.5

BPAD Accredited Practitioner Details

Name Zac Cockerill Company Details JBS&G Australia Pty Ltd T/A Strategen JBS&G I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2018.	 <p>I hereby declare that I am a BPAD accredited bushfire practitioner.</p> <p>Accreditation No. 37803</p> <p>Signature <i>[Signature]</i></p> <p>Date 27/9/22</p>

Authorised Practitioner Stamp

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Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2018

This Certificate has been issued by a person accredited by Fire Protection Association Australia under the Bushfire Planning and Design (BPAD) Accreditation Scheme. The certificate details the conclusions of the full Bushfire Attack Level Assessment Report (full report) prepared by the Accredited Practitioner.

Property Details and Description of Works

Address Details	Unit no	Street no	Lot no	Street name / Plan Reference		
			1276	Goldmouth Street		
Local government area	Suburb			State		Postcode
	Jindalee			WA		6036
Main BCA class of the building	City of Wanneroo					
Description of the building or works	Class 1a	Use(s) of the building		Residential dwelling		
	Construction of a single Class 1a building and associated Class 10a building/s					

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class C Shrubland	Downslope >5–10°	49 m	BAL – 12.5

BPAD Accredited Practitioner Details

Name Zac Cockerill Company Details JBS&G Australia Pty Ltd T/A Strategen JBS&G I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2018.	<div style="border: 1px solid black; padding: 10px;"> <p>I hereby declare that I am a BPAD accredited bushfire practitioner.</p> <p>Accreditation No. <u>37803</u></p> <p>Signature <u>[Signature]</u></p> <p>Date <u>27/9/22</u></p> </div>

Authorised Practitioner Stamp

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Bushfire Attack Level (BAL) Certificate

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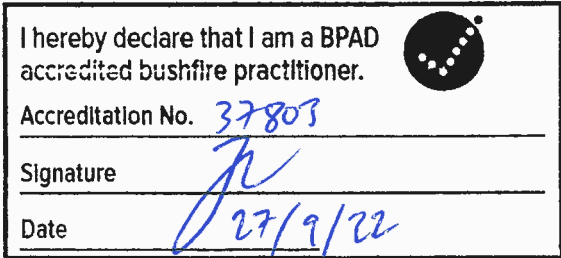
Property Details and Description of Works

Address Details	Unit no	Street no	Lot no	Street name / Plan Reference		
			1471	Bathers Promenade		
Local government area	Suburb			State		Postcode
	Jindalee			WA		6036
Main BCA class of the building	City of Wanneroo					
Description of the building or works	Class 1a	Use(s) of the building	Residential dwelling			
	Construction of a single Class 1a building and associated Class 10a building/s					

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class C Shrubland	Downslope >5–10°	>100 m	BAL – LOW

BPAD Accredited Practitioner Details

Name Zac Cockerill Company Details JBS&G Australia Pty Ltd T/A Strategen JBS&G I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2018.	 <p>I hereby declare that I am a BPAD accredited bushfire practitioner.</p> <p>Accreditation No. 37803</p> <p>Signature <i>[Signature]</i></p> <p>Date 27/9/22</p>

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Bushfire Attack Level (BAL) Certificate

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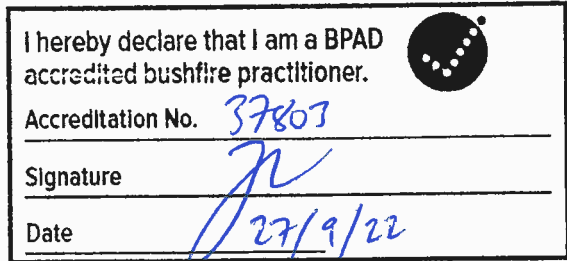
Property Details and Description of Works

Address Details	Unit no	Street no	Lot no	Street name / Plan Reference		
			1472	Bathers Promenade		
Local government area	Suburb			State	Postcode	
	Jindalee			WA	6036	
Main BCA class of the building	City of Wanneroo					
Description of the building or works	Class 1a	Use(s) of the building	Residential dwelling			
	Construction of a single Class 1a building and associated Class 10a building/s					

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class C Shrubland	Downslope >5–10°	>100 m	BAL – LOW

BPAD Accredited Practitioner Details

Name Zac Cockerill Company Details JBS&G Australia Pty Ltd T/A Strategen JBS&G I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2018.	 <p>I hereby declare that I am a BPAD accredited bushfire practitioner.</p> <p>Accreditation No. 37803</p> <p>Signature [Signature]</p> <p>Date 27/9/22</p>

Authorised Practitioner Stamp

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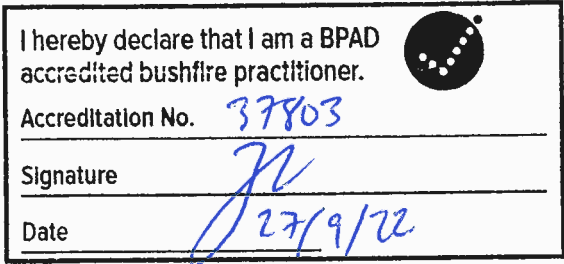
Property Details and Description of Works

<div>Address Details</div> <div>Local government area</div> <div>Main BCA class of the building</div> <div>Description of the building or works</div>	Unit no	Street no	Lot no	Street name / Plan Reference		
			1552	Bathers Promenade		
	Suburb			State	Postcode	
	Jindalee			WA	6036	
	City of Wanneroo					
	Class 1a	Use(s) of the building	Residential dwelling			
	Construction of a single Class 1a building and associated Class 10a building/s					

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class C Shrubland	Downslope >5–10°	18 m (lower BAL achievable with setback)	BAL – 19

BPAD Accredited Practitioner Details

Name Zac Cockerill Company Details JBS&G Australia Pty Ltd T/A Strategen JBS&G I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2018.	<div>  <p>I hereby declare that I am a BPAD accredited bushfire practitioner.</p> <p>Accreditation No. 37803</p> <p>Signature <i>[Signature]</i></p> <p>Date 27/9/22</p> </div> <p>Authorised Practitioner Stamp</p>
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Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2018

This Certificate has been issued by a person accredited by Fire Protection Association Australia under the Bushfire Planning and Design (BPAD) Accreditation Scheme. The certificate details the conclusions of the full Bushfire Attack Level Assessment Report (full report) prepared by the Accredited Practitioner.

Property Details and Description of Works

Address Details	Unit no	Street no	Lot no	Street name / Plan Reference		
			1553	Bathers Promenade		
Local government area	Suburb			State		Postcode
	Jindalee			WA		6036
Main BCA class of the building	City of Wanneroo					
Description of the building or works	Class 1a	Use(s) of the building		Residential dwelling		
	Construction of a single Class 1a building and associated Class 10a building/s					

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class C Shrubland	Downslope >5-10°	18 m (lower BAL achievable with setback)	BAL – 19

BPAD Accredited Practitioner Details

Name Zac Cockerill Company Details JBS&G Australia Pty Ltd T/A Strategen JBS&G I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2018.	<div style="border: 1px solid black; padding: 10px;"> <p>I hereby declare that I am a BPAD accredited bushfire practitioner.</p> <p>Accreditation No. <u>37803</u></p> <p>Signature <u>[Signature]</u></p> <p>Date <u>27/9/22</u></p> </div>

Authorised Practitioner Stamp

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Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2018

This Certificate has been issued by a person accredited by Fire Protection Association Australia under the Bushfire Planning and Design (BPAD) Accreditation Scheme. The certificate details the conclusions of the full Bushfire Attack Level Assessment Report (full report) prepared by the Accredited Practitioner.

Property Details and Description of Works

Address Details	Unit no	Street no	Lot no	Street name / Plan Reference		
			1554	Phaxas Street		
Local government area	Suburb			State		Postcode
	Jindalee			WA		6036
Main BCA class of the building	City of Wanneroo					
Description of the building or works	Class 1a	Use(s) of the building		Residential dwelling		
	Construction of a single Class 1a building and associated Class 10a building/s					

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class C Shrubland	Downslope >5–10°	47 m	BAL – 12.5

BPAD Accredited Practitioner Details

Name Zac Cockerill Company Details JBS&G Australia Pty Ltd T/A Strategen JBS&G I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2018.	<div style="border: 1px solid black; padding: 10px;"> <p>I hereby declare that I am a BPAD accredited bushfire practitioner.</p> <p>Accreditation No. <u>37803</u></p> <p>Signature <u>[Signature]</u></p> <p>Date <u>27/9/22</u></p> </div>

Authorised Practitioner Stamp

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Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2018

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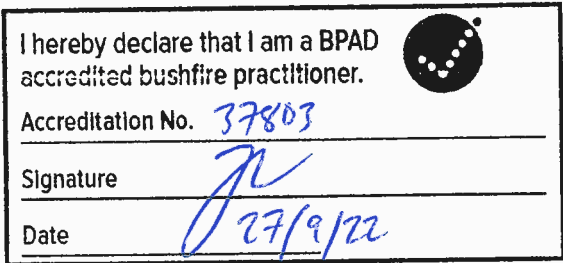
Property Details and Description of Works

Address Details	Unit no	Street no	Lot no	Street name / Plan Reference		
			1555	Phaxas Street		
Local government area	Suburb			State		Postcode
	Jindalee			WA		6036
Main BCA class of the building	City of Wanneroo					
Description of the building or works	Class 1a	Use(s) of the building		Residential dwelling		
	Construction of a single Class 1a building and associated Class 10a building/s					

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class C Shrubland	Downslope >5–10°	61 m	BAL – 12.5

BPAD Accredited Practitioner Details

Name Zac Cockerill Company Details JBS&G Australia Pty Ltd T/A Strategen JBS&G I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2018.	 <p>I hereby declare that I am a BPAD accredited bushfire practitioner.</p> <p>Accreditation No. 37803</p> <p>Signature <i>[Signature]</i></p> <p>Date 27/9/22</p>

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Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2018

This Certificate has been issued by a person accredited by Fire Protection Association Australia under the Bushfire Planning and Design (BPAD) Accreditation Scheme. The certificate details the conclusions of the full Bushfire Attack Level Assessment Report (full report) prepared by the Accredited Practitioner.



Property Details and Description of Works

<div>Address Details</div> <div>Local government area</div> <div>Main BCA class of the building</div> <div>Description of the building or works</div>	Unit no	Street no	Lot no	Street name / Plan Reference		
			1556	Phaxas Street		
	Suburb				State	Postcode
	Jindalee				WA	6036
	City of Wanneroo					
	Class 1a	Use(s) of the building		Residential dwelling		
Construction of a single Class 1a building and associated Class 10a building/s						

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class C Shrubland	Downslope >5–10°	75 m	BAL – 12.5

BPAD Accredited Practitioner Details

Name Zac Cockerill	<div><div>I hereby declare that I am a BPAD accredited bushfire practitioner.</div><div></div><div>Accreditation No. 37803</div><div>Signature </div><div>Date 27/9/22</div></div> <div>Authorised Practitioner Stamp</div>
Company Details JBS&G Australia Pty Ltd T/A Strategen JBS&G	
I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2018.	

Authorised Practitioner Stamp

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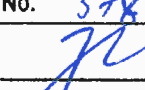
Property Details and Description of Works

Address Details	Unit no	Street no	Lot no	Street name / Plan Reference		
			1557	Phaxas Street		
Local government area	Suburb			State		Postcode
	Jindalee			WA		6036
Main BCA class of the building	City of Wanneroo					
	Class 1a	Use(s) of the building		Residential dwelling		
	Construction of a single Class 1a building and associated Class 10a building/s					

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class C Shrubland	Downslope >5–10°	90 m	BAL – 12.5

BPAD Accredited Practitioner Details

Name Zac Cockerill	<div><div>I hereby declare that I am a BPAD accredited bushfire practitioner.</div><div></div><div>Accreditation No. 37803</div><div>Signature </div><div>Date 27/9/22</div></div>
Company Details JBS&G Australia Pty Ltd T/A Strategen JBS&G	
I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2018.	

Authorised Practitioner Stamp

Authorised Practitioner Stamp

Reliance on the assessment and determination of the Bushfire Attack Level contained in this certificate should not extend beyond a period of 12 months from the date of issue of the certificate. If this certificate was issued more than 12 months ago, it is recommended that the validity of the determination be confirmed with the Accredited Practitioner and where required an updated certificate issued.

Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2018

This Certificate has been issued by a person accredited by Fire Protection Association Australia under the Bushfire Planning and Design (BPAD) Accreditation Scheme. The certificate details the conclusions of the full Bushfire Attack Level Assessment Report (full report) prepared by the Accredited Practitioner.

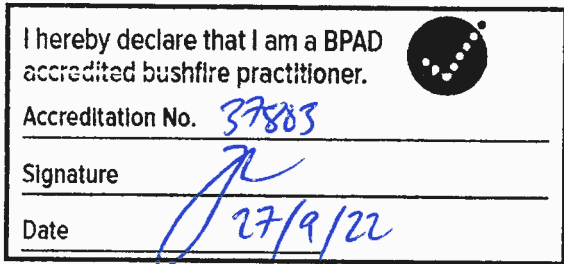
Property Details and Description of Works

Address Details	Unit no	Street no	Lot no	Street name / Plan Reference	
			1558	Phaxas Street	
Local government area	Suburb			State	Postcode
	Jindalee			WA	6036
Main BCA class of the building	City of Wanneroo				
Description of the building or works	Class 1a	Use(s) of the building	Residential dwelling		
	Construction of a single Class 1a building and associated Class 10a building/s				

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class C Shrubland	Downslope >5–10°	>100 m	BAL – LOW

BPAD Accredited Practitioner Details

Name Zac Cockerill Company Details JBS&G Australia Pty Ltd T/A Strategen JBS&G I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2018.	 <p>I hereby declare that I am a BPAD accredited bushfire practitioner.</p> <p>Accreditation No. 37883</p> <p>Signature [Signature]</p> <p>Date 27/9/22</p>

Authorised Practitioner Stamp

Reliance on the assessment and determination of the Bushfire Attack Level contained in this certificate should not extend beyond a period of 12 months from the date of issue of the certificate. If this certificate was issued more than 12 months ago, it is recommended that the validity of the determination be confirmed with the Accredited Practitioner and where required an updated certificate issued.

Bushfire Attack Level (BAL) Certificate

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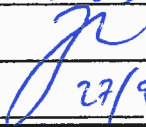
Property Details and Description of Works

Address Details	Unit no	Street no	Lot no	Street name / Plan Reference	
			1559	Phaxas Street	
Local government area	Suburb			State	Postcode
	Jindalee			WA	6036
Main BCA class of the building	City of Wanneroo				
Description of the building or works	Class 1a	Use(s) of the building	Residential dwelling		
	Construction of a single Class 1a building and associated Class 10a building/s				

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class C Shrubland	Downslope >5–10°	>100 m	BAL – LOW

BPAD Accredited Practitioner Details

Name Zac Cockerill	<div>I hereby declare that I am a BPAD accredited bushfire practitioner. </div> <div>Accreditation No. 37803</div> <div>Signature </div> <div>Date 27/9/22</div>
Company Details JBS&G Australia Pty Ltd T/A Strategen JBS&G	
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Property Details and Description of Works

Address Details	Unit no	Street no	Lot no	Street name / Plan Reference		
			1560	Phaxas Street		
Local government area	Suburb			State		Postcode
	Jindalee			WA		6036
Main BCA class of the building	City of Wanneroo					
Description of the building or works	Class 1a	Use(s) of the building	Residential dwelling			
	Construction of a single Class 1a building and associated Class 10a building/s					

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class C Shrubland	Downslope >5-10°	>100 m	BAL – LOW

BPAD Accredited Practitioner Details

Name Zac Cockerill Company Details JBS&G Australia Pty Ltd T/A Strategen JBS&G I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2018.	<div style="border: 1px solid black; padding: 10px;"> <p>I hereby declare that I am a BPAD accredited bushfire practitioner.</p> <p>Accreditation No. <u>37803</u></p> <p>Signature <u>[Signature]</u></p> <p>Date <u>27/9/22</u></p> </div>

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Property Details and Description of Works

Address Details	Unit no	Street no	Lot no	Street name / Plan Reference		
			1561	Phaxas Street		
Local government area	Suburb			State		Postcode
	Jindalee			WA		6036
	City of Wanneroo					
Main BCA class of the building	Class 1a	Use(s) of the building		Residential dwelling		
Description of the building or works	Construction of a single Class 1a building and associated Class 10a building/s					

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class C Shrubland	Downslope >5–10°	>100 m	BAL – LOW

BPAD Accredited Practitioner Details

Name Zac Cockerill Company Details JBS&G Australia Pty Ltd T/A Strategen JBS&G I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2018.	<div style="border: 1px solid black; padding: 10px;"> <p>I hereby declare that I am a BPAD accredited bushfire practitioner. </p> <p>Accreditation No. <u>37803</u></p> <p>Signature <u></u></p> <p>Date <u>27/9/22</u></p> </div>

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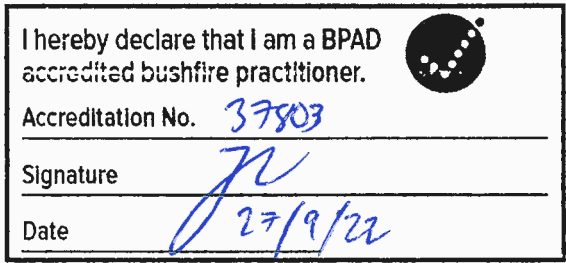
Property Details and Description of Works

Address Details	Unit no	Street no	Lot no	Street name / Plan Reference		
			1562	Phaxas Street		
Local government area	Suburb			State		Postcode
	Jindalee			WA		6036
	City of Wanneroo					
Main BCA class of the building	Class 1a	Use(s) of the building		Residential dwelling		
Description of the building or works	Construction of a single Class 1a building and associated Class 10a building/s					

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class C Shrubland	Downslope >5–10°	>100 m	BAL – LOW

BPAD Accredited Practitioner Details

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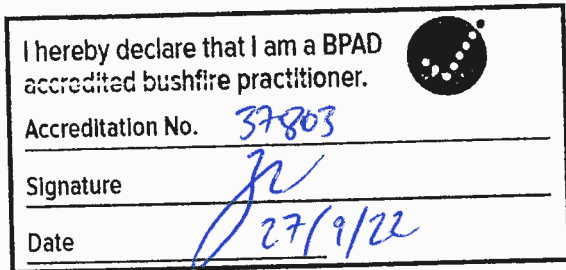
Property Details and Description of Works

Address Details	Unit no	Street no	Lot no	Street name / Plan Reference		
			1563	Bathers Promenade		
Local government area	Suburb			State		Postcode
	Jindalee			WA		6036
Main BCA class of the building	City of Wanneroo					
Description of the building or works	Class 1a	Use(s) of the building		Residential dwelling		
	Construction of a single Class 1a building and associated Class 10a building/s					

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class C Shrubland	Downslope >5–10°	>100 m	BAL – LOW

BPAD Accredited Practitioner Details

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Property Details and Description of Works

Address Details	Unit no	Street no	Lot no	Street name / Plan Reference		
			1564	Bathers Promenade		
Local government area	Suburb			State		Postcode
	Jindalee			WA		6036
Main BCA class of the building	City of Wanneroo					
Description of the building or works	Class 1a	Use(s) of the building		Residential dwelling		
	Construction of a single Class 1a building and associated Class 10a building/s					

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class C Shrubland	Downslope >5–10°	>100 m	BAL – LOW

BPAD Accredited Practitioner Details

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Property Details and Description of Works

Address Details	Unit no	Street no	Lot no	Street name / Plan Reference		
			1580	Bathers Promenade		
Local government area	Suburb			State		Postcode
	Jindalee			WA		6036
Main BCA class of the building	City of Wanneroo					
Description of the building or works	Class 1a	Use(s) of the building	Residential dwelling			
	Construction of a single Class 1a building and associated Class 10a building/s					

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class C Shrubland	Downslope >5–10°	18 m (lower BAL achievable with setback)	BAL – 19

BPAD Accredited Practitioner Details

Name Zac Cockerill Company Details JBS&G Australia Pty Ltd T/A Strategen JBS&G I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2018.	<div style="border: 1px solid black; padding: 5px;"> <p>I hereby declare that I am a BPAD accredited bushfire practitioner.</p> <p>Accreditation No. <u>37803</u></p> <p>Signature <u>[Signature]</u></p> <p>Date <u>27/9/22</u></p> </div> <p style="text-align: right; margin-top: 10px;">Authorised Practitioner Stamp</p>

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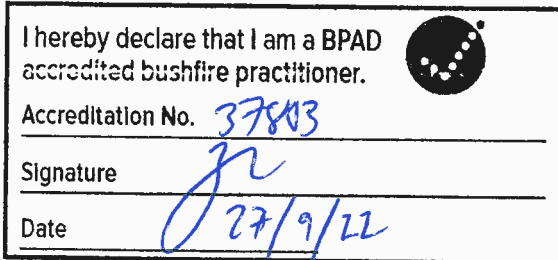
Property Details and Description of Works

Address Details	Unit no	Street no	Lot no	Street name / Plan Reference		
			1581	Bathers Promenade		
Local government area	Suburb			State		Postcode
	Jindalee			WA		6036
Main BCA class of the building	City of Wanneroo					
Description of the building or works	Class 1a	Use(s) of the building	Residential dwelling			
	Construction of a single Class 1a building and associated Class 10a building/s					

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class C Shrubland	Downslope >5-10°	18 m (lower BAL achievable with setback)	BAL - 19

BPAD Accredited Practitioner Details

Name Zac Cockerill Company Details JBS&G Australia Pty Ltd T/A Strategen JBS&G I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2018.	 <p>I hereby declare that I am a BPAD accredited bushfire practitioner.</p> <p>Accreditation No. 37803</p> <p>Signature <i>[Signature]</i></p> <p>Date 27/9/22</p>

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Property Details and Description of Works

Address Details Local government area Main BCA class of the building Description of the building or works	Unit no	Street no	Lot no	Street name / Plan Reference		
			1582	Bathers Promenade		
	Suburb			State	Postcode	
	Jindalee			WA	6036	
	City of Wanneroo					
	Class 1a	Use(s) of the building		Residential dwelling		
	Construction of a single Class 1a building and associated Class 10a building/s					

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class C Shrubland	Flat/upslope (0°)	18 m (lower BAL achievable with setback)	BAL – 19

BPAD Accredited Practitioner Details

Name Zac Cockerill Company Details JBS&G Australia Pty Ltd T/A Strategen JBS&G I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2018.	<div> <p>I hereby declare that I am a BPAD accredited bushfire practitioner.</p> <p>Accreditation No. <u>37803</u></p> <p>Signature <u>[Signature]</u></p> <p>Date <u>27/9/22</u></p> </div> <p>Authorised Practitioner Stamp</p>
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Property Details and Description of Works

Address Details	Unit no	Street no	Lot no	Street name / Plan Reference		
			1583	Rubra Way		
Local government area	Suburb			State		Postcode
	Jindalee			WA		6036
Main BCA class of the building	City of Wanneroo					
Description of the building or works	Class 1a	Use(s) of the building	Residential dwelling			
	Construction of a single Class 1a building and associated Class 10a building/s					

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class C Shrubland	Flat/upslope (0°)	50 m	BAL – 12.5

BPAD Accredited Practitioner Details

Name Zac Cockerill Company Details JBS&G Australia Pty Ltd T/A Strategen JBS&G I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2018.	<div style="border: 1px solid black; padding: 10px;"> <p>I hereby declare that I am a BPAD accredited bushfire practitioner.</p> <p>Accreditation No. <u>37803</u></p> <p>Signature <u>[Signature]</u></p> <p>Date <u>27/9/22</u></p> </div> <p style="text-align: right; margin-top: 10px;"><i>Authorised Practitioner Stamp</i></p>

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Property Details and Description of Works

Address Details	Unit no	Street no	Lot no	Street name / Plan Reference		
			1584	Rubra Way		
Local government area	Suburb			State		Postcode
	Jindalee			WA		6036
	City of Wanneroo					
Main BCA class of the building	Class 1a	Use(s) of the building		Residential dwelling		
Description of the building or works	Construction of a single Class 1a building and associated Class 10a building/s					

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class C Shrubland	Flat/upslope (0°)	64 m	BAL – 12.5

BPAD Accredited Practitioner Details

Name Zac Cockerill Company Details JBS&G Australia Pty Ltd T/A Strategen JBS&G I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2018.	<div style="border: 1px solid black; padding: 10px;"> <p>I hereby declare that I am a BPAD accredited bushfire practitioner.</p> <p>Accreditation No. <u>37803</u></p> <p>Signature <u>[Signature]</u></p> <p>Date <u>27/9/22</u></p> </div>

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Property Details and Description of Works

Address Details	Unit no	Street no	Lot no	Street name / Plan Reference		
			1585	Rubra Way		
Local government area	Suburb			State		Postcode
	Jindalee			WA		6036
Main BCA class of the building	City of Wanneroo					
Description of the building or works	Class 1a	Use(s) of the building		Residential dwelling		
	Construction of a single Class 1a building and associated Class 10a building/s					

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class C Shrubland	Flat/upslope (0°)	77 m	BAL – 12.5

BPAD Accredited Practitioner Details

Name Zac Cockerill Company Details JBS&G Australia Pty Ltd T/A Strategen JBS&G I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2018.	<div style="border: 1px solid black; padding: 5px;"> <p>I hereby declare that I am a BPAD accredited bushfire practitioner.</p> <p>Accreditation No. <u>37803</u></p> <p>Signature <u>[Signature]</u></p> <p>Date <u>27/9/22</u></p> </div>

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Property Details and Description of Works

Address Details	Unit no	Street no	Lot no	Street name / Plan Reference		
			1586	Rubra Way		
Local government area	Suburb			State		Postcode
	Jindalee			WA		6036
Main BCA class of the building	City of Wanneroo					
Description of the building or works	Class 1a	Use(s) of the building		Residential dwelling		
	Construction of a single Class 1a building and associated Class 10a building/s					

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class C Shrubland	Flat/upslope (0°)	89 m	BAL – 12.5

BPAD Accredited Practitioner Details

Name Zac Cockerill	<div> I hereby declare that I am a BPAD accredited bushfire practitioner.  </div> <div> Accreditation No. 37803 </div> <div> Signature </div> <div> Date 27/9/22 </div>
Company Details JBS&G Australia Pty Ltd T/A Strategen JBS&G	
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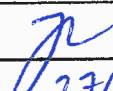
Property Details and Description of Works

Address Details	Unit no	Street no	Lot no	Street name / Plan Reference		
			1587	Rubra Way		
Local government area	Suburb			State		Postcode
	Jindalee			WA		6036
	City of Wanneroo					
Main BCA class of the building	Class 1a	Use(s) of the building		Residential dwelling		
Description of the building or works	Construction of a single Class 1a building and associated Class 10a building/s					

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class C Shrubland	Flat/upslope (0°)	>100 m	BAL – LOW

BPAD Accredited Practitioner Details

Name Zac Cockerill	<div> I hereby declare that I am a BPAD accredited bushfire practitioner.  </div> <div> Accreditation No. 37803 </div> <div> Signature  </div> <div> Date 27/9/22 </div>
Company Details JBS&G Australia Pty Ltd T/A Strategen JBS&G	
I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2018.	

Authorised Practitioner Stamp

Reliance on the assessment and determination of the Bushfire Attack Level contained in this certificate should not extend beyond a period of 12 months from the date of issue of the certificate. If this certificate was issued more than 12 months ago, it is recommended that the validity of the determination be confirmed with the Accredited Practitioner and where required an updated certificate issued.

Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2018

This Certificate has been issued by a person accredited by Fire Protection Association Australia under the Bushfire Planning and Design (BPAD) Accreditation Scheme. The certificate details the conclusions of the full Bushfire Attack Level Assessment Report (full report) prepared by the Accredited Practitioner.

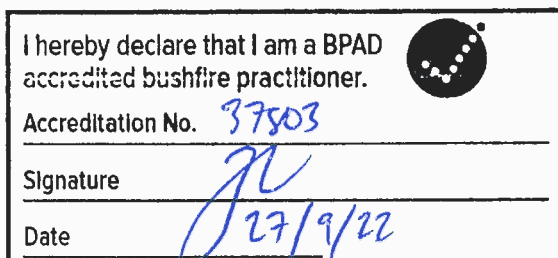
Property Details and Description of Works

Address Details	Unit no	Street no	Lot no	Street name / Plan Reference		
			1598	Phaxas Street		
Local government area	Suburb			State		Postcode
	Jindalee			WA		6036
Main BCA class of the building	City of Wanneroo					
Description of the building or works	Class 1a	Use(s) of the building		Residential dwelling		
	Construction of a single Class 1a building and associated Class 10a building/s					

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class C Shrubland	Flat/upslope (0°)	>100 m	BAL – LOW

BPAD Accredited Practitioner Details

Name Zac Cockerill Company Details JBS&G Australia Pty Ltd T/A Strategen JBS&G I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2018.	 <p>I hereby declare that I am a BPAD accredited bushfire practitioner.</p> <p>Accreditation No. 37503</p> <p>Signature <i>[Signature]</i></p> <p>Date 27/9/22</p>

Authorised Practitioner Stamp

Reliance on the assessment and determination of the Bushfire Attack Level contained in this certificate should not extend beyond a period of 12 months from the date of issue of the certificate. If this certificate was issued more than 12 months ago, it is recommended that the validity of the determination be confirmed with the Accredited Practitioner and where required an updated certificate issued.

Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2018

This Certificate has been issued by a person accredited by Fire Protection Association Australia under the Bushfire Planning and Design (BPAD) Accreditation Scheme. The certificate details the conclusions of the full Bushfire Attack Level Assessment Report (full report) prepared by the Accredited Practitioner.


Property Details and Description of Works

<div>Address Details</div> <div>Local government area</div> <div>Main BCA class of the building</div> <div>Description of the building or works</div>	Unit no	Street no	Lot no	Street name / Plan Reference	
			1599	Phaxas Street	
	Suburb			State	Postcode
	Jindalee			WA	6036
	City of Wanneroo				
	Class 1a	Use(s) of the building	Residential dwelling		
	Construction of a single Class 1a building and associated Class 10a building/s				

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class C Shrubland	Flat/upslope (0°)	93 m	BAL – 12.5

BPAD Accredited Practitioner Details

Name Zac Cockerill	<div style="border: 1px solid black; padding: 10px;"> I hereby declare that I am a BPAD accredited bushfire practitioner.  Accreditation No. <u>37803</u> Signature <u>[Signature]</u> Date <u>27/9/22</u> </div>
Company Details JBS&G Australia Pty Ltd T/A Strategen JBS&G	
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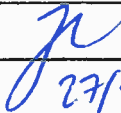

Property Details and Description of Works

Address Details	Unit no	Street no	Lot no	Street name / Plan Reference		
			1600	Phaxas Street		
Local government area	Suburb			State		Postcode
	Jindalee			WA		6036
Main BCA class of the building	City of Wanneroo					
Description of the building or works	Class 1a	Use(s) of the building		Residential dwelling		
	Construction of a single Class 1a building and associated Class 10a building/s					

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class C Shrubland	Flat/upslope (0°)	81 m	BAL – 12.5

BPAD Accredited Practitioner Details

Name Zac Cockerill	<div>I hereby declare that I am a BPAD accredited bushfire practitioner. Accreditation No. 37803 Signature  Date 27/9/22</div> <div></div>
Company Details JBS&G Australia Pty Ltd T/A Strategen JBS&G	
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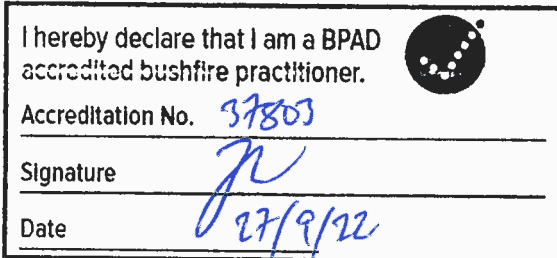
Property Details and Description of Works

Address Details	Unit no	Street no	Lot no	Street name / Plan Reference		
			1601	Phaxas Street		
Local government area	Suburb			State		Postcode
	Jindalee			WA		6036
Main BCA class of the building	City of Wanneroo					
Description of the building or works	Class 1a	Use(s) of the building	Residential dwelling			
	Construction of a single Class 1a building and associated Class 10a building/s					

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class C Shrubland	Flat/upslope (0°)	69 m	BAL – 12.5

BPAD Accredited Practitioner Details

Name Zac Cockerill Company Details JBS&G Australia Pty Ltd T/A Strategen JBS&G I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2018.	 <p>I hereby declare that I am a BPAD accredited bushfire practitioner.</p> <p>Accreditation No. 37803</p> <p>Signature <i>[Signature]</i></p> <p>Date 27/9/22</p>

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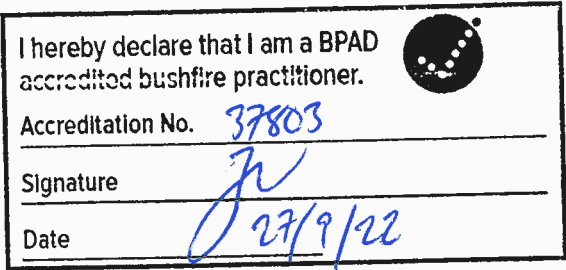
Property Details and Description of Works

Address Details	Unit no	Street no	Lot no	Street name / Plan Reference		
			1602	Phaxas Street		
Local government area	Suburb			State		Postcode
	Jindalee			WA		6036
Main BCA class of the building	City of Wanneroo					
Description of the building or works	Class 1a	Use(s) of the building	Residential dwelling			
	Construction of a single Class 1a building and associated Class 10a building/s					

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class C Shrubland	Flat/upslope (0°)	55 m	BAL – 12.5

BPAD Accredited Practitioner Details

Name Zac Cockerill	 <p>I hereby declare that I am a BPAD accredited bushfire practitioner.</p> <p>Accreditation No. 37803</p> <p>Signature <i>[Signature]</i></p> <p>Date 27/9/22</p>
Company Details JBS&G Australia Pty Ltd T/A Strategen JBS&G	
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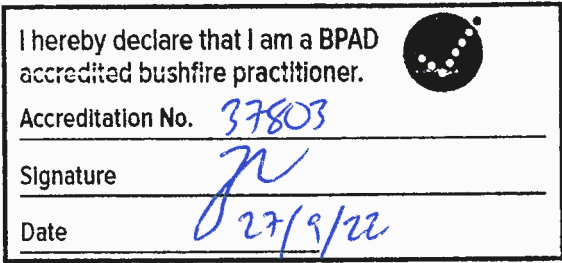
Property Details and Description of Works

Address Details	Unit no	Street no	Lot no	Street name / Plan Reference	
			1610	Bathers Promenade	
Local government area	Suburb			State	Postcode
	Jindalee			WA	6036
Main BCA class of the building	City of Wanneroo				
Description of the building or works	Class 1a	Use(s) of the building	Residential dwelling		
	Construction of a single Class 1a building and associated Class 10a building/s				

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class C Shrubland	Flat/upslope (0°)	18 m (lower BAL achievable with setback)	BAL – 19

BPAD Accredited Practitioner Details

Name Zac Cockerill	<div>  <p>I hereby declare that I am a BPAD accredited bushfire practitioner.</p> <p>Accreditation No. 37803</p> <p>Signature <i>[Signature]</i></p> <p>Date 27/9/22</p> </div>
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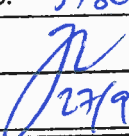
Property Details and Description of Works

Address Details	Unit no	Street no	Lot no	Street name / Plan Reference		
			1611	Bathers Promenade		
Local government area	Suburb			State		Postcode
	Jindalee			WA		6036
Main BCA class of the building	City of Wanneroo					
Description of the building or works	Class 1a	Use(s) of the building		Residential dwelling		
	Construction of a single Class 1a building and associated Class 10a building/s					

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class C Shrubland	Downslope >5–10°	18 m (lower BAL achievable with setback)	BAL – 19

BPAD Accredited Practitioner Details

Name Zac Cockerill	<div> I hereby declare that I am a BPAD accredited bushfire practitioner.  </div> <div> Accreditation No. 37803 </div> <div> Signature  </div> <div> Date 27/9/22 </div>
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Bushfire Attack Level (BAL) Certificate

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This Certificate has been issued by a person accredited by Fire Protection Association Australia under the Bushfire Planning and Design (BPAD) Accreditation Scheme. The certificate details the conclusions of the full Bushfire Attack Level Assessment Report (full report) prepared by the Accredited Practitioner.

Property Details and Description of Works

Address Details	Unit no	Street no	Lot no	Street name / Plan Reference		
			1612	Bathers Promenade		
Local government area	Suburb				State	Postcode
	Jindalee				WA	6036
	City of Wanneroo					
Main BCA class of the building	Class 1a	Use(s) of the building		Residential dwelling		
Description of the building or works	Construction of a single Class 1a building and associated Class 10a building/s					

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class C Shrubland	Downslope >5–10°	18 m (lower BAL achievable with setback)	BAL – 19

BPAD Accredited Practitioner Details

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Bushfire Attack Level (BAL) Certificate

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Property Details and Description of Works

Address Details	Unit no	Street no	Lot no	Street name / Plan Reference	
			1613	Junonia Way	
Local government area	Suburb			State	Postcode
	Jindalee			WA	6036
Main BCA class of the building	City of Wanneroo				
Description of the building or works	Class 1a	Use(s) of the building	Residential dwelling		
	Construction of a single Class 1a building and associated Class 10a building/s				

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class C Shrubland	Downslope >5-10°	47 m	BAL – 12.5

BPAD Accredited Practitioner Details

Name Zac Cockerill Company Details JBS&G Australia Pty Ltd T/A Strategen JBS&G I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2018.	<div style="border: 1px solid black; padding: 5px;"> <p>I hereby declare that I am a BPAD accredited bushfire practitioner.</p> <p>Accreditation No. <u>37803</u></p> <p>Signature <u>[Signature]</u></p> <p>Date <u>27/9/22</u></p> </div>

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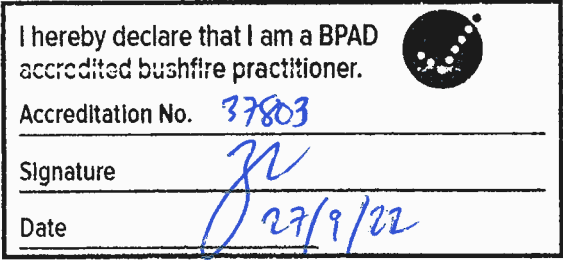
Property Details and Description of Works

<div>Address Details</div> <div>Local government area</div> <div>Main BCA class of the building</div> <div>Description of the building or works</div>	Unit no	Street no	Lot no	Street name / Plan Reference		
			1614	Junonia Way		
	Suburb				State	Postcode
	Jindalee				WA	6036
	City of Wanneroo					
	Class 1a	Use(s) of the building		Residential dwelling		
	Construction of a single Class 1a building and associated Class 10a building/s					

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class C Shrubland	Downslope >5–10°	62 m	BAL – 12.5

BPAD Accredited Practitioner Details

Name Zac Cockerill	<div>  <p>I hereby declare that I am a BPAD accredited bushfire practitioner.</p> <p>Accreditation No. 37803</p> <p>Signature <i>[Signature]</i></p> <p>Date 27/9/22</p> </div>
Company Details JBS&G Australia Pty Ltd T/A Strategen JBS&G	
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Bushfire Attack Level (BAL) Certificate

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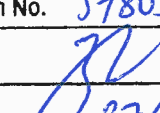
Property Details and Description of Works

Address Details	Unit no	Street no	Lot no	Street name / Plan Reference		
			1615	Junonia Way		
Local government area	Suburb			State		Postcode
	Jindalee			WA		6036
	City of Wanneroo					
Main BCA class of the building	Class 1a	Use(s) of the building		Residential dwelling		
Description of the building or works	Construction of a single Class 1a building and associated Class 10a building/s					

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class C Shrubland	Downslope >5–10°	77 m	BAL – 12.5

BPAD Accredited Practitioner Details

Name Zac Cockerill	<div>  <p>I hereby declare that I am a BPAD accredited bushfire practitioner.</p> <p>Accreditation No. 37803</p> <p>Signature </p> <p>Date 27/9/22</p> </div>
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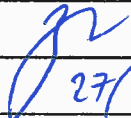

Property Details and Description of Works

Address Details	Unit no	Street no	Lot no 1616	Street name / Plan Reference Junonia Way		
	Suburb Jindalee			State WA	Postcode 6036	
Local government area	City of Wanneroo					
Main BCA class of the building	Class 1a	Use(s) of the building		Residential dwelling		
Description of the building or works	Construction of a single Class 1a building and associated Class 10a building/s					

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class C Shrubland	Downslope >5–10°	92 m	BAL – 12.5

BPAD Accredited Practitioner Details

Name Zac Cockerill	<div>I hereby declare that I am a BPAD accredited bushfire practitioner.</div> <div>Accreditation No. 37803</div> <div>Signature </div> <div>Date 27/9/22</div> <div></div> <div>Authorised Practitioner Stamp</div>
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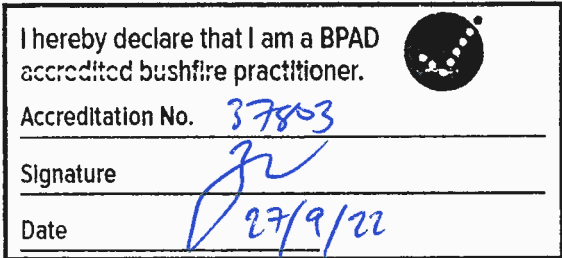
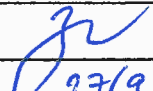
Property Details and Description of Works

Address Details	Unit no	Street no	Lot no 1617	Street name / Plan Reference Junonia Way		
	Suburb Jindalee			State WA	Postcode 6036	
Local government area	City of Wanneroo					
Main BCA class of the building	Class 1a	Use(s) of the building		Residential dwelling		
Description of the building or works	Construction of a single Class 1a building and associated Class 10a building/s					

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class C Shrubland	Downslope >5–10°	>100 m	BAL – LOW

BPAD Accredited Practitioner Details

Name Zac Cockerill	<div>  <p>I hereby declare that I am a BPAD accredited bushfire practitioner.</p> <p>Accreditation No. 37803</p> <p>Signature </p> <p>Date 27/9/22</p> </div>
Company Details JBS&G Australia Pty Ltd T/A Strategen JBS&G	
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Property Details and Description of Works

Address Details	Unit no	Street no	Lot no	Street name / Plan Reference		
			1626	Rubra Way		
Local government area	Suburb			State		Postcode
	Jindalee			WA		6036
	City of Wanneroo					
Main BCA class of the building	Class 1a	Use(s) of the building		Residential dwelling		
Description of the building or works	Construction of a single Class 1a building and associated Class 10a building/s					

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class C Shrubland	Flat/upslope (0°)	>100 m	BAL – LOW

BPAD Accredited Practitioner Details

Name Zac Cockerill	<div style="border: 1px solid black; padding: 5px;"> I hereby declare that I am a BPAD accredited bushfire practitioner.  Accreditation No. <u>37803</u> Signature <u>[Signature]</u> Date <u>27/9/22</u> </div>
Company Details JBS&G Australia Pty Ltd T/A Strategen JBS&G	
I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2018.	

Authorised Practitioner Stamp

Reliance on the assessment and determination of the Bushfire Attack Level contained in this certificate should not extend beyond a period of 12 months from the date of issue of the certificate. If this certificate was issued more than 12 months ago, it is recommended that the validity of the determination be confirmed with the Accredited Practitioner and where required an updated certificate issued.

Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2018

This Certificate has been issued by a person accredited by Fire Protection Association Australia under the Bushfire Planning and Design (BPAD) Accreditation Scheme. The certificate details the conclusions of the full Bushfire Attack Level Assessment Report (full report) prepared by the Accredited Practitioner.



Property Details and Description of Works

Address Details	Unit no	Street no	Lot no	Street name / Plan Reference	
			1627	Rubra Way	
Local government area	Suburb			State	Postcode
	Jindalee			WA	6036
	City of Wanneroo				
Main BCA class of the building	Class 1a	Use(s) of the building	Residential dwelling		
Description of the building or works	Construction of a single Class 1a building and associated Class 10a building/s				

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class C Shrubland	Flat/upslope (0°)	95 m	BAL – 12.5

BPAD Accredited Practitioner Details

Name Zac Cockerill	<div><div>I hereby declare that I am a BPAD accredited bushfire practitioner.</div><div></div><div>Accreditation No. 37803</div><div>Signature </div><div>Date 27/9/22</div></div> <div>Authorised Practitioner Stamp</div>
Company Details JBS&G Australia Pty Ltd T/A Strategen JBS&G	
I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2018.	

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Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2018

This Certificate has been issued by a person accredited by Fire Protection Association Australia under the Bushfire Planning and Design (BPAD) Accreditation Scheme. The certificate details the conclusions of the full Bushfire Attack Level Assessment Report (full report) prepared by the Accredited Practitioner.

Property Details and Description of Works

Address Details	Unit no	Street no	Lot no	Street name / Plan Reference		
			1628	Rubra Way		
Local government area	Suburb			State		Postcode
	Jindalee			WA		6036
	City of Wanneroo					
Main BCA class of the building	Class 1a	Use(s) of the building		Residential dwelling		
Description of the building or works	Construction of a single Class 1a building and associated Class 10a building/s					

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class C Shrubland	Flat/upslope (0°)	80 m	BAL – 12.5

BPAD Accredited Practitioner Details

Name Zac Cockerill Company Details JBS&G Australia Pty Ltd T/A Strategen JBS&G I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2018.	<div style="border: 1px solid black; padding: 10px;"> <p>I hereby declare that I am a BPAD accredited bushfire practitioner.</p> <p>Accreditation No. <u>37803</u></p> <p>Signature <u>[Signature]</u></p> <p>Date <u>27/9/22</u></p> </div>

Authorised Practitioner Stamp

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Bushfire Attack Level (BAL) Certificate

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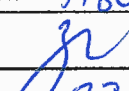
Property Details and Description of Works

<div>Address Details</div> <div>Local government area</div> <div>Main BCA class of the building</div> <div>Description of the building or works</div>	Unit no	Street no	Lot no	Street name / Plan Reference		
			1629	Rubra Way		
	Suburb				State	Postcode
	Jindalee				WA	6036
	City of Wanneroo					
	Class 1a	Use(s) of the building		Residential dwelling		
	Construction of a single Class 1a building and associated Class 10a building/s					

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class C Shrubland	Flat/upslope (0°)	65 m	BAL – 12.5

BPAD Accredited Practitioner Details

Name Zac Cockerill	<div> I hereby declare that I am a BPAD accredited bushfire practitioner.  </div> <div> Accreditation No. 37803 </div> <div> Signature  </div> <div> Date 27/9/22 </div>
Company Details JBS&G Australia Pty Ltd T/A Strategen JBS&G	
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Property Details and Description of Works

Address Details	Unit no	Street no	Lot no	Street name / Plan Reference		
			1630	Rubra Way		
	Suburb				State	Postcode
	Jindalee				WA	6036
	City of Wanneroo					
Local government area						
Main BCA class of the building	Class 1a	Use(s) of the building	Residential dwelling			
Description of the building or works	Construction of a single Class 1a building and associated Class 10a building/s					

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class C Shrubland	Flat/upslope (0°)	50 m	BAL – 12.5

BPAD Accredited Practitioner Details

Name Zac Cockerill	<div style="border: 1px solid black; padding: 5px;"> <p>I hereby declare that I am a BPAD accredited bushfire practitioner.</p> <p>Accreditation No. <u>37803</u></p> <p>Signature <u>[Signature]</u></p> <p>Date <u>27/9/22</u></p> </div>
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Property Details and Description of Works

Address Details	Unit no	Street no	Lot no	Street name / Plan Reference	
			1640	Bathers Promenade	
Local government area	Suburb			State	Postcode
	Jindalee			WA	6036
Main BCA class of the building	City of Wanneroo				
Description of the building or works	Class 1a	Use(s) of the building	Residential dwelling		
	Construction of a single Class 1a building and associated Class 10a building/s				

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class C Shrubland	Downslope >5–10°	18 m (lower BAL achievable with setback)	BAL – 19

BPAD Accredited Practitioner Details

Name Zac Cockerill	<div> <p>I hereby declare that I am a BPAD accredited bushfire practitioner.</p> <p>Accreditation No. <u>37803</u></p> <p>Signature <u>[Signature]</u></p> <p>Date <u>27/9/22</u></p> </div>
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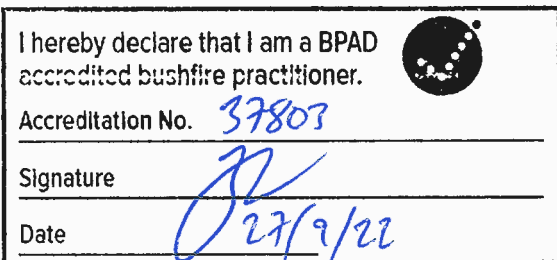
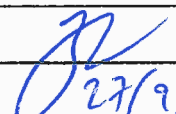
Property Details and Description of Works

Address Details	Unit no	Street no	Lot no	Street name / Plan Reference		
			1641	Bathers Promenade		
	Suburb				State	Postcode
	Jindalee				WA	6036
	City of Wanneroo					
Local government area						
Main BCA class of the building	Class 1a	Use(s) of the building		Residential dwelling		
Description of the building or works	Construction of a single Class 1a building and associated Class 10a building/s					

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class C Shrubland	Downslope >5–10°	18 m (lower BAL achievable with setback)	BAL – 19

BPAD Accredited Practitioner Details

Name Zac Cockerill Company Details JBS&G Australia Pty Ltd T/A Strategen JBS&G I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2018.	<div>  <p>I hereby declare that I am a BPAD accredited bushfire practitioner.</p> <p>Accreditation No. 37803</p> <p>Signature </p> <p>Date 27/9/22</p> </div> <p>Authorised Practitioner Stamp</p>
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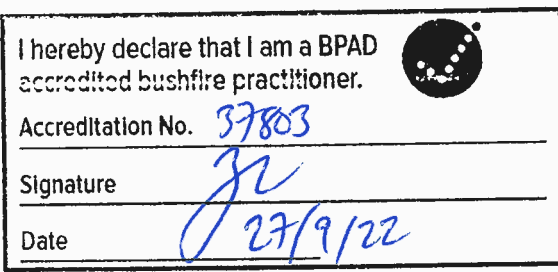
Property Details and Description of Works

Address Details	Unit no	Street no	Lot no	Street name / Plan Reference		
			1642	Bathers Promenade		
Local government area	Suburb			State		Postcode
	Jindalee			WA		6036
Main BCA class of the building	City of Wanneroo					
Description of the building or works	Class 1a	Use(s) of the building		Residential dwelling		
	Construction of a single Class 1a building and associated Class 10a building/s					

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class C Shrubland	Downslope >5-10°	18 m (lower BAL achievable with setback)	BAL – 19

BPAD Accredited Practitioner Details

Name Zac Cockerill	<div>  <p>I hereby declare that I am a BPAD accredited bushfire practitioner.</p> <p>Accreditation No. 37803</p> <p>Signature <i>[Signature]</i></p> <p>Date 27/9/22</p> </div>
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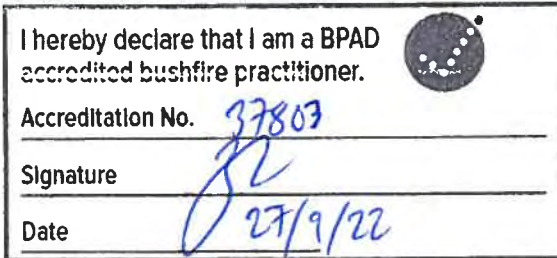
Property Details and Description of Works

Address Details	Unit no	Street no	Lot no	Street name / Plan Reference		
			1643	Bathers Promenade		
Local government area	Suburb			State		Postcode
	Jindalee			WA		6036
	City of Wanneroo					
Main BCA class of the building	Class 1a	Use(s) of the building		Residential dwelling		
Description of the building or works	Construction of a single Class 1a building and associated Class 10a building/s					

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class C Shrubland	Downslope >5–10°	47 m	BAL – 12.5

BPAD Accredited Practitioner Details

Name Zac Cockerill	 <p>I hereby declare that I am a BPAD accredited bushfire practitioner.</p> <p>Accreditation No. 37803</p> <p>Signature [Signature]</p> <p>Date 27/9/22</p>
Company Details JBS&G Australia Pty Ltd T/A Strategen JBS&G	
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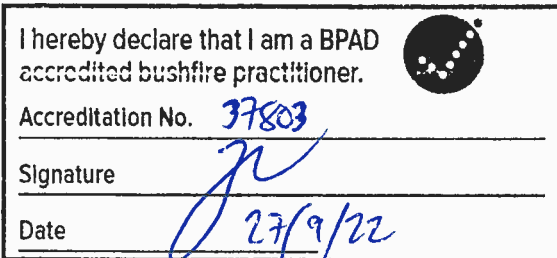
Property Details and Description of Works

Address Details	Unit no	Street no	Lot no 1644	Street name / Plan Reference Bathers Promenade		
	Suburb Jindalee			State WA	Postcode 6036	
Local government area	City of Wanneroo					
Main BCA class of the building	Class 1a	Use(s) of the building		Residential dwelling		
Description of the building or works	Construction of a single Class 1a building and associated Class 10a building/s					

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class C Shrubland	Downslope >5–10°	61 m	BAL – 12.5

BPAD Accredited Practitioner Details

Name Zac Cockerill Company Details JBS&G Australia Pty Ltd T/A Strategen JBS&G I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2018.	 <p>I hereby declare that I am a BPAD accredited bushfire practitioner.</p> <p>Accreditation No. 37803</p> <p>Signature [Signature]</p> <p>Date 27/9/22</p>

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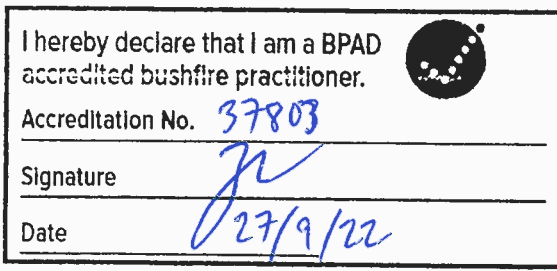
Property Details and Description of Works

Address Details	Unit no	Street no	Lot no	Street name / Plan Reference		
			1645	Bathers Promenade		
Local government area	Suburb			State		Postcode
	Jindalee			WA		6036
Main BCA class of the building	City of Wanneroo					
Description of the building or works	Class 1a	Use(s) of the building	Residential dwelling			
	Construction of a single Class 1a building and associated Class 10a building/s					

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class C Shrubland	Downslope >5–10°	76 m	BAL – 12.5

BPAD Accredited Practitioner Details

Name Zac Cockerill	 <p>I hereby declare that I am a BPAD accredited bushfire practitioner.</p> <p>Accreditation No. 37803</p> <p>Signature <i>[Signature]</i></p> <p>Date 27/9/22</p>
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Bushfire Attack Level (BAL) Certificate

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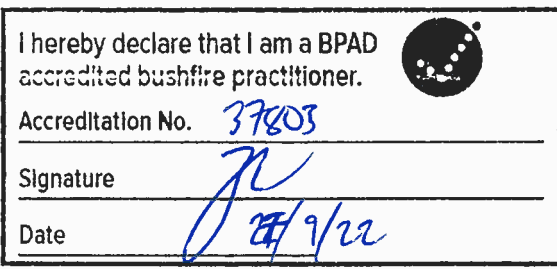
Property Details and Description of Works

Address Details	Unit no	Street no	Lot no	Street name / Plan Reference		
			1646	Bathers Promenade		
Local government area	Suburb			State		Postcode
	Jindalee			WA		6036
Main BCA class of the building	City of Wanneroo					
	Class 1a	Use(s) of the building		Residential dwelling		
	Construction of a single Class 1a building and associated Class 10a building/s					

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class C Shrubland	Downslope >5–10°	87 m	BAL – 12.5

BPAD Accredited Practitioner Details

Name Zac Cockerill	<div>  <p>I hereby declare that I am a BPAD accredited bushfire practitioner.</p> <p>Accreditation No. 37803</p> <p>Signature <i>[Signature]</i></p> <p>Date 27/9/22</p> </div>
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Property Details and Description of Works

Address Details	Unit no	Street no	Lot no	Street name / Plan Reference		
			1647	Bathers Promenade		
Local government area	Suburb			State		Postcode
	Jindalee			WA		6036
Main BCA class of the building	City of Wanneroo					
Description of the building or works	Class 1a	Use(s) of the building	Residential dwelling			
	Construction of a single Class 1a building and associated Class 10a building/s					

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class C Shrubland	Downslope >5–10°	99 m (lower BAL achievable with setback)	BAL – 12.5

BPAD Accredited Practitioner Details

Name Zac Cockerill Company Details JBS&G Australia Pty Ltd T/A Strategen JBS&G I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2018.	<div style="border: 1px solid black; padding: 10px;"> <p>I hereby declare that I am a BPAD accredited bushfire practitioner.</p> <p>Accreditation No. <u>37863</u></p> <p>Signature <u>[Signature]</u></p> <p>Date <u>27/9/22</u></p> </div>

Authorised Practitioner Stamp

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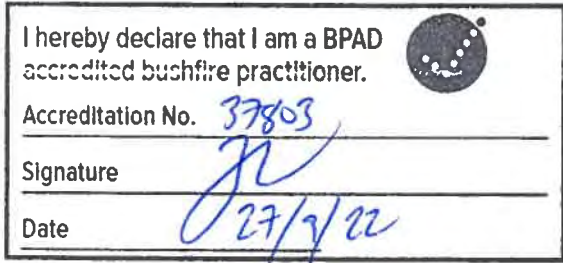
Property Details and Description of Works

Address Details	Unit no	Street no	Lot no	Street name / Plan Reference		
			1654	Junonia Way		
Local government area	Suburb			State		Postcode
	Jindalee			WA		6036
Main BCA class of the building	City of Wanneroo					
Description of the building or works	Class 1a	Use(s) of the building		Residential dwelling		
	Construction of a single Class 1a building and associated Class 10a building/s					

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class C Shrubland	Downslope >5–10°	>100 m	BAL – LOW

BPAD Accredited Practitioner Details

Name Zac Cockerill Company Details JBS&G Australia Pty Ltd T/A Strategen JBS&G I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2018.	 <p>I hereby declare that I am a BPAD accredited bushfire practitioner.</p> <p>Accreditation No. 37803</p> <p>Signature <i>[Signature]</i></p> <p>Date 27/7/22</p>

Authorised Practitioner Stamp

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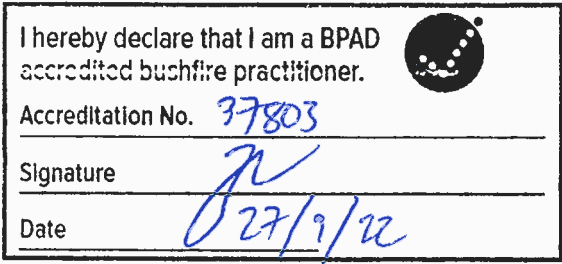
Property Details and Description of Works

Address Details	Unit no	Street no	Lot no 1655	Street name / Plan Reference Junonia Way		
	Suburb Jindalee			State WA	Postcode 6036	
Local government area	City of Wanneroo					
Main BCA class of the building	Class 1a	Use(s) of the building	Residential dwelling			
Description of the building or works	Construction of a single Class 1a building and associated Class 10a building/s					

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class C Shrubland	Downslope >5-10°	98 m (lower BAL achievable with setback)	BAL – 12.5

BPAD Accredited Practitioner Details

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Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2018

This Certificate has been issued by a person accredited by Fire Protection Association Australia under the Bushfire Planning and Design (BPAD) Accreditation Scheme. The certificate details the conclusions of the full Bushfire Attack Level Assessment Report (full report) prepared by the Accredited Practitioner.

Property Details and Description of Works

Address Details	Unit no	Street no	Lot no	Street name / Plan Reference		
			1656	Junonia Way		
Local government area	Suburb			State		Postcode
	Jindalee			WA		6036
Main BCA class of the building	City of Wanneroo					
Description of the building or works	Class 1a	Use(s) of the building	Residential dwelling			
	Construction of a single Class 1a building and associated Class 10a building/s					

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class C Shrubland	Downslope >5-10°	83 m	BAL - 12.5

BPAD Accredited Practitioner Details

Name Zac Cockerill Company Details JBS&G Australia Pty Ltd T/A Strategen JBS&G I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2018.	<div style="border: 1px solid black; padding: 10px;"> <p>I hereby declare that I am a BPAD accredited bushfire practitioner.</p> <p>Accreditation No. <u>37803</u></p> <p>Signature <u>[Signature]</u></p> <p>Date <u>27/9/22</u></p> </div>

Authorised Practitioner Stamp

Reliance on the assessment and determination of the Bushfire Attack Level contained in this certificate should not extend beyond a period of 12 months from the date of issue of the certificate. If this certificate was issued more than 12 months ago, it is recommended that the validity of the determination be confirmed with the Accredited Practitioner and where required an updated certificate issued.

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Property Details and Description of Works

Address Details	Unit no	Street no	Lot no	Street name / Plan Reference		
			1657	Junonia Way		
	Suburb				State	Postcode
	Jindalee				WA	6036
Local government area	City of Wanneroo					
Main BCA class of the building	Class 1a	Use(s) of the building		Residential dwelling		
Description of the building or works	Construction of a single Class 1a building and associated Class 10a building/s					

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class C Shrubland	Downslope >5-10°	69 m	BAL – 12.5

BPAD Accredited Practitioner Details

Name Zac Cockerill	<div style="border: 1px solid black; padding: 5px;"> <p>I hereby declare that I am a BPAD accredited bushfire practitioner.</p> <p>Accreditation No. 37803</p> <p>Signature </p> <p>Date 27/9/22</p> </div>
Company Details JBS&G Australia Pty Ltd T/A Strategen JBS&G	
I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2018.	

Authorised Practitioner Stamp

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This Certificate has been issued by a person accredited by Fire Protection Association Australia under the Bushfire Planning and Design (BPAD) Accreditation Scheme. The certificate details the conclusions of the full Bushfire Attack Level Assessment Report (full report) prepared by the Accredited Practitioner.

Property Details and Description of Works

Address Details	Unit no	Street no	Lot no	Street name / Plan Reference		
			1658	Junonia Way		
Local government area	Suburb			State		Postcode
	Jindalee			WA		6036
Main BCA class of the building	City of Wanneroo					
Description of the building or works	Class 1a	Use(s) of the building	Residential dwelling			
	Construction of a single Class 1a building and associated Class 10a building/s					

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class C Shrubland	Downslope >5-10°	54 m	BAL - 12.5

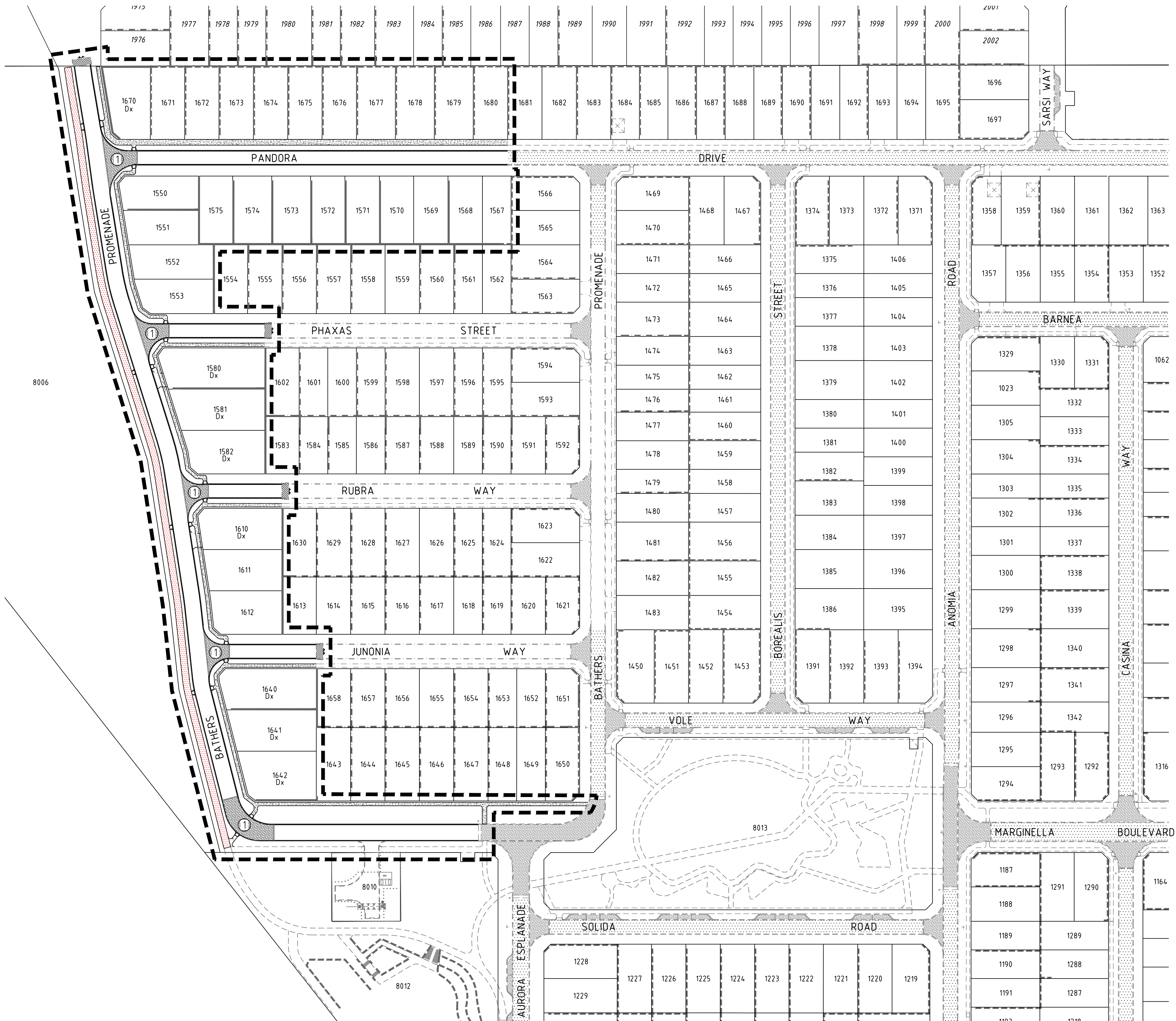
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Appendix B Civil roadworks layout plans (Cossill and Webley 2022)



STANDARD NOTES

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- THE CONTRACTOR SHALL LIAISE WITH ALL PUBLIC UTILITIES PRIOR TO COMMENCING WORK TO LOCATE ALL SERVICES WITHIN THE CONTRACT SITE.
- ALL LEVELS SHALL BE LOCATED FROM ESTABLISHED BENCHMARKS AS ESTABLISHED BY THE PROJECT SURVEYOR.
- ALL CONNECTIONS TO EXISTING WORK SHALL BE SMOOTH AND OF NEAT APPEARANCE.
- REFER INTERSECTION DETAIL DRAWINGS FOR CORNER RADII AT INTERSECTIONS AND CUL-DE-SACS.
- ALL KERBING TO BE MOUNTABLE TYPE UNLESS NOTED OTHERWISE.
- TRANSITION BETWEEN DIFFERENT KERB TYPES SHALL BE MADE OVER A LENGTH OF 2m.
- WHERE POSSIBLE, STREET SIGNS TO BE STRAPPED TO STREET LIGHT POLES.
- ALL CUTS THROUGH LIMESTONE SHALL BE EXCAVATED TO A DEPTH OF 100mm BELOW SUB-GRADE LEVEL AND 200mm BELOW THE FINISHED LEVEL OF VERGES.
- STORMWATER PIPES SHALL BE REINFORCED CONCRETE (CLASS 2) R.R.J. UNLESS NOTED OTHERWISE.
- DRAINAGE PIPES TO BE INSTALLED IN ACCORDANCE WITH AS3725. CONTRACTOR TO CONSIDER GROUND CONDITIONS, HAUNCHING, TRENCH CONDITIONS, LOAD PARAMETERS AND COMPACTION METHODS TO ENSURE INTEGRITY OF PIPE.
- MANHOLES AND SIDE ENTRY PITS SHALL BE LOCATED IN POSITIONS SHOWN IRRESPECTIVE OF THE INDICATED PIPE LENGTHS AND WHERE APPLICABLE THE PITS SHALL BE LOCATED AT THE ACTUAL LOW POINT.
- MINIMUM COVER TO DRAINAGE PIPES TO BE 600mm UNLESS NOTED OTHERWISE. CLEARANCE WITH ALL OTHER SERVICES TO BE 150mm. CONTRACTOR TO ADVISE OF ANY DISCREPANCIES.
- WHERE A SEWER LINE INTERSECTS WITH A STORMWATER DRAINAGE LINE AND THE SEWER PASSES OVER THE DRAIN THEN THE SEWER SHALL HAVE A TIMBER PILE AND KEEL PROVIDED FOR THE FULL EXTENT NECESSARY TO SUPPORT THE SEWER DURING EXCAVATION FOR THE DRAIN.
- THE ROADWORKS AND DRAINAGE DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE SEWERAGE RETICULATION PLAN(S) AND THE STANDARD DRAWING(S).
- STORMWATER ACCESS CHAMBER LIDS IN VERGES ARE TO BE SET TO MATCH VERGE CROSSFALLS AND LEVELS.

STAGE NOTES

- LOCAL AUTHORITY - CITY OF WANNEROO
- PROJECT SURVEYOR - MNG
- LANDSCAPE ARCHITECT - EPCAD PTY LTD
- REFERENCE DRAWINGS:
SEWERAGE RETICULATION PLAN 5636-LOT 9-25-400, 401
INTERSECTION DETAILS 5636-LOT 9-25-620
WATER RETICULATION PLAN 5636-LOT 9-25-500,501
- DRAINAGE PIPES TO BE LAID ON 3.5m ALIGNMENT IN ROAD RESERVES UNLESS NOTED OTHERWISE.

WARNING TO CONTRACTOR UXO

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LEGEND

DESCRIPTION	SYMBOL
LIMIT OF WORKS BOUNDARY	---
PROPOSED ROAD	---
EXISTING ROAD	---
FUTURE ROAD	---
PROPOSED DRAINAGE PIPE	---
EXISTING DRAINAGE PIPE	---
FUTURE DRAINAGE PIPE	---
PROPOSED DRAINAGE PIPE WITH JUNCTION PIT (JP), SIDE ENTRY PIT (SEP), GRATED PIT (GP) AND CIRCULAR GRATED PIT (GP)	---
DRAINAGE PIT LABEL	PIT TYPE PIT ID CHAINAGE OR CO-ORD
DRAINAGE PIT LID NOTATION	PROVIDE TEMPORARY LID CONVERT EXISTING LID
UPSTREAM INVERT LEVEL	PROPOSED EXISTING FUTURE
PIPE DIAMETER / GRADE	U/S 20.50 300/100.0 50.0 D/S 20.00
DISTANCE BETWEEN PITS	100.0 150.0 200.0
DOWNSTREAM INVERT LEVEL	100.0 150.0 200.0
TABLE DRAIN	---
PROPOSED SUBSOIL DRAINAGE PIPE	---
EXISTING SUBSOIL DRAINAGE PIPE	---
FUTURE SUBSOIL DRAINAGE PIPE	---
PROPOSED SEWER MAIN	---
EXISTING SEWER MAIN	---
FUTURE SEWER MAIN	---
PROPOSED WATER MAIN	---
EXISTING WATER MAIN	---
FUTURE WATER MAIN	---
PROPOSED CONCRETE PATH AND PRAM RAMP	---
PROPOSED 3.0m WIDE RED ASPHALT P.S.P	---
BRICK PAVING (REFER BRICK PAVING TABLE)	---
BLACK ASPHALT WEARING COURSE	---
EXTEND ROAD PAVEMENT 3.0m PAST LIMIT OF ASPHALT AND INSTALL D4-5 CHEVRON BOARD	---
EXTEND ROAD PAVEMENT 3.0m PAST LIMIT OF ASPHALT, CONSTRUCT TEMPORARY Ø18 TURNAROUND AND INSTALL 2 No. D4-5 HAZARD MARKERS	---
PROPOSED KERB TRANSITION	---
POST WITH STREET NAME PLATES	---
CHEVRON BOARD	---
PROPOSED RETAINING WALL	---
EXISTING RETAINING WALL	---
FUTURE RETAINING WALL	---

KERB TYPES

DESCRIPTION	SYMBOL
MOUNTABLE KERB	MK
SEMI MOUNTABLE KERB	SMK
FLUSH KERB	FK
REINFORCED FLUSH KERB	RFK

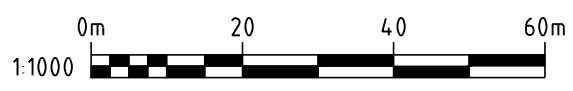
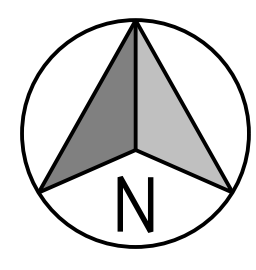
BRICK PAVING TABLE

No.	TYPE	COLOUR	PATTERN
①	EASIPAVE 80 SPLIT BEVEL WASHED PAVERS (220mmx110mmx80mm)	CUSTOM DARK CHARCOAL	HERRINGBONE

PAVEMENT DETAILS

SYMBOL	TYPE	ELEMENT	THICKNESS (mm)
---	EXISTING	N/A	N/A
---	BLACK ASPHALT	LIMESTONE SUB-BASE HIGH FATIGUE RESISTANT BASE COURSE ASPHALT WEARING COURSE ASPHALT	200mm 40mm 25mm

1	20.01.22	DMC	MS	J. M.	LOT 1580 AMENDED. ISSUED FOR CONSTRUCTION
0	14.01.22	DMC	DOB	B. MARSHALL	ISSUED FOR CONSTRUCTION
A	04.10.21	MS	BRM	B. MARSHALL	ISSUED FOR APPROVAL
REV	DATE	DRN	CKD	APP	AMENDMENT

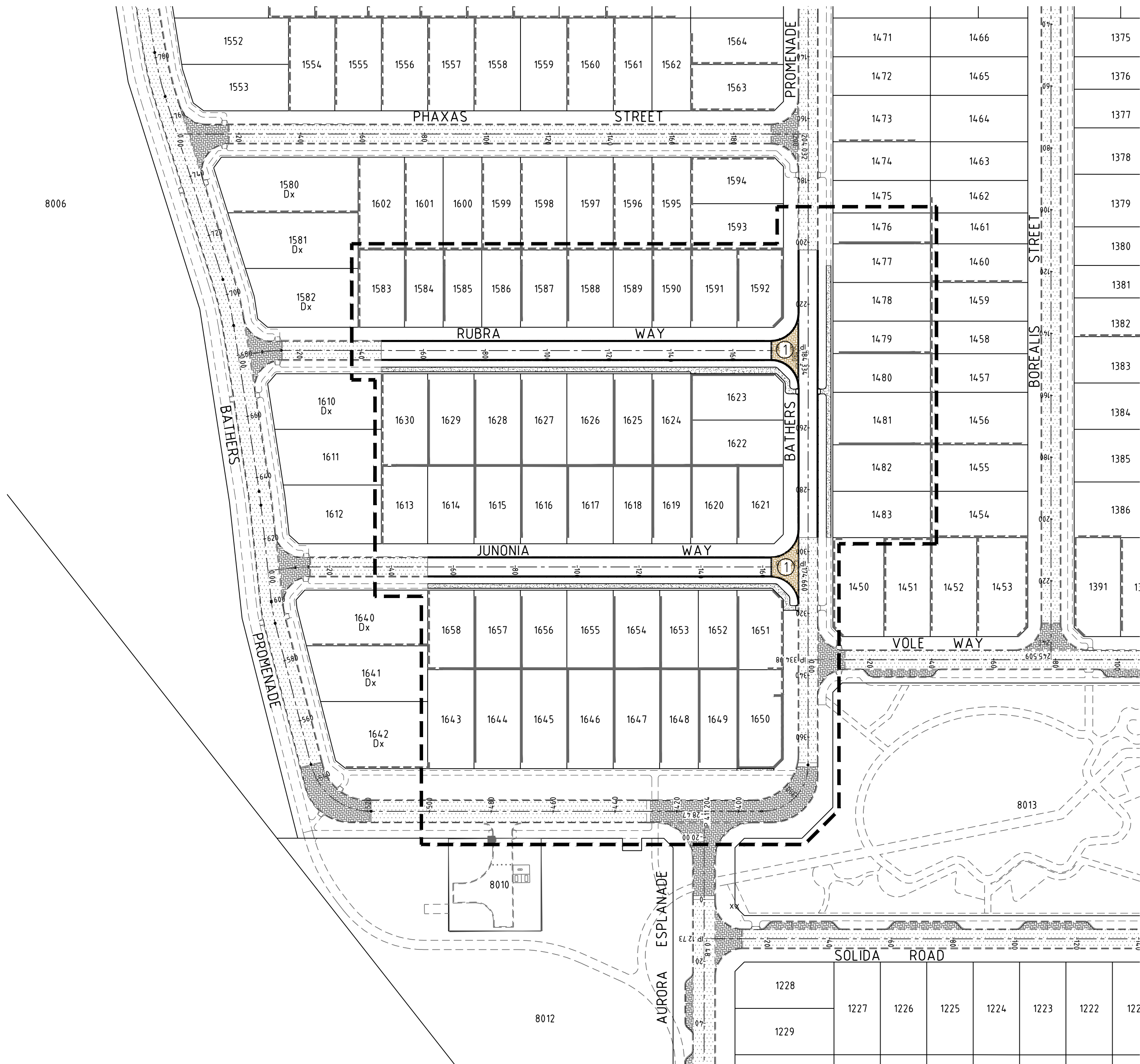


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Cossill & Webley
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Subiaco WA 6904
Street Address
B12 (Level 2) 431 Roberts Road
Subiaco WA 6008
T (08) 9422 5800 F (08) 9422 5801 E admin@cosweb.com.au

CLIENT
OCEAN SPRINGS PTY LTD (BUTLER JV)
APPROVED
20.01.22
DESIGNED
MS
SCALE
1:1000

PROJECT
EDEN BEACH (LOT 9 JINDALEE) - STAGE 25
TITLE
ROADWORKS GENERAL ARRANGEMENT
WAPC No. 159574
DRAWING No. 5636-LOT 9-25-600
REVISION 1
ORIGINAL SIZE
A1



PLAN
1:1000

STANDARD NOTES

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE SPECIFICATION AND REQUIREMENTS OF THE LOCAL AUTHORITY.
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STAGE NOTES

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- LANDSCAPE ARCHITECT - EPCAD PTY LTD
- REFERENCE DRAWINGS:
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LEGEND

DESCRIPTION	SYMBOL
LIMIT OF WORKS BOUNDARY	
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EXISTING ROAD	
FUTURE ROAD	
PROPOSED DRAINAGE PIPE	
EXISTING DRAINAGE PIPE	
FUTURE DRAINAGE PIPE	
PROPOSED DRAINAGE PIPE WITH JUNCTION PIT (JP), SIDE ENTRY PIT (SEP), GRATED PIT (GP) AND CIRCULAR GRATED PIT (GP)	
DRAINAGE PIT LABEL	
DRAINAGE PIT LID NOTATION	
UPSTREAM INVERT LEVEL	
PIPE DIAMETER / GRADE	
DISTANCE BETWEEN PITS	
DOWNSTREAM INVERT LEVEL	
TABLE DRAIN	
PROPOSED SUBSOIL DRAINAGE PIPE	
EXISTING SUBSOIL DRAINAGE PIPE	
FUTURE SUBSOIL DRAINAGE PIPE	
PROPOSED SEWER MAIN	
EXISTING SEWER MAIN	
FUTURE SEWER MAIN	
PROPOSED WATER MAIN	
EXISTING WATER MAIN	
FUTURE WATER MAIN	
PROPOSED CONCRETE PATH AND PRAM RAMP	
PROPOSED 3.0m WIDE RED ASPHALT P.S.P	
BRICK PAVING (REFER BRICK PAVING TABLE)	
BLACK ASPHALT WEARING COURSE	
EXTEND ROAD PAVEMENT 3.0m PAST LIMIT OF ASPHALT AND INSTALL D4-5 CHEVRON BOARD	
EXTEND ROAD PAVEMENT 3.0m PAST LIMIT OF ASPHALT, CONSTRUCT TEMPORARY Ø18 TURNAROUND AND INSTALL 2 No. D4-5 HAZARD MARKERS	
PROPOSED KERB TRANSITION	
POST WITH STREET NAME PLATES	
CHEVRON BOARD	
PROPOSED RETAINING WALL	
EXISTING RETAINING WALL	
FUTURE RETAINING WALL	

KERB TYPES

DESCRIPTION	SYMBOL
MOUNTABLE KERB	MK
SEMI MOUNTABLE KERB	SMK
FLUSH KERB	FK
REINFORCED FLUSH KERB	RFK

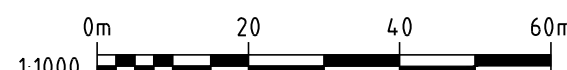
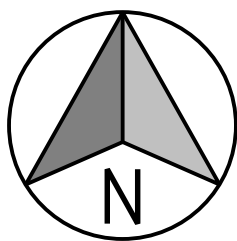
BRICK PAVING TABLE

No.	TYPE	COLOUR	PATTERN
①	EASIPAVE 80 SPLIT BEVEL WASHED PAVERS (220mmx110mmx80mm)	CUSTOM DARK CHARCOAL	HERRINGBONE

PAVEMENT DETAILS

SYMBOL	TYPE	ELEMENT	THICKNES S (mm)
	EXISTING	N/A	N/A
	BLACK ASPHALT	LIMESTONE SUB-BASE HIGH FATIGUE RESISTANT BASE COURSE ASPHALT WEARING COURSE ASPHALT	200mm 40mm 25mm

0	23.06.22	CT	amp	J. Marshall	ISSUED FOR CONSTRUCTION
A	28.03.22	AMP	DOB	B. MARSHALL	ISSUED FOR APPROVAL
REV	DATE	DRN	CKD	APP	AMENDMENT



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CW Cossill & Webley
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PO Box 680
Subiaco WA 6904
Street Address
B12 (Level 2) 431 Roberts Road
Subiaco WA 6008
T (08) 9422 5800 F (08) 9422 5801 E admin@cosweb.com.au

CLIENT
OCEAN SPRINGS PTY LTD (BUTLER JV)
APPROVED 23.06.22

DESIGNED AMP
SCALE 1:1000

PROJECT
EDEN BEACH (LOT 9 JINDALEE) - STAGE 28
TITLE
ROADWORKS GENERAL ARRANGEMENT
WAPC No. 159574
DRAWING No. 5636-LOT 9-28-600
REVISION 0

ORIGINAL SIZE
A1

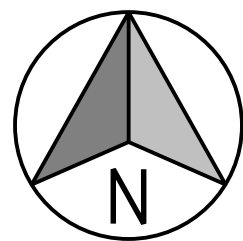
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- TRANSITION BETWEEN DIFFERENT KERB TYPES SHALL BE MADE OVER A LENGTH OF 2m.
- WHERE POSSIBLE, STREET SIGNS TO BE STRAPPED TO STREET LIGHT POLES.
- ALL CUTS THROUGH LIMESTONE SHALL BE EXCAVATED TO A DEPTH OF 100mm BELOW SUB-GRADE LEVEL AND 200mm BELOW THE FINISHED LEVEL OF VERGES.
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STAGE NOTES

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- REFERENCE DRAWINGS:
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INTERSECTION DETAILS 5636-LOT 9-29-620
WATER RETICULATION PLAN 5636-LOT 9-29-500
- DRAINAGE PIPES TO BE LAID ON ALIGNMENTS SHOWN UNLESS NOTED OTHERWISE.
- STORMWATER PIPES SHALL BE REINFORCED CONCRETE (CLASS 2) R.R.I. UNLESS NOTED OTHERWISE.

LEGEND

DESCRIPTION	SYMBOL
LIMIT OF WORKS BOUNDARY	— — — — —
PROPOSED ROAD	— — — — —
EXISTING ROAD	— — — — —
FUTURE ROAD	— — — — —
PROPOSED DRAINAGE PIPE	— — — — —
EXISTING DRAINAGE PIPE	— — — — —
FUTURE DRAINAGE PIPE	— — — — —
PROPOSED DRAINAGE PIPE WITH JUNCTION PIT (JP), SIDE ENTRY PIT (SEP), GRATED PIT (GP) AND CIRCULAR GRATED PIT (CP)	— — — — —
DRAINAGE PIT LABEL	PIT TYPE: JP, GP, CP PIT ID: 01, 02, 03 CHAINAGE OR CO-ORD
DRAINAGE PIT LID NOTATION	* PROVIDE TEMPORARY LID ● CONVERT EXISTING LID
UPSTREAM INVERT LEVEL	PROPOSED: 100.00, 100.00, 100.00 EXISTING: 100.00, 100.00, 100.00 FUTURE: 100.00, 100.00, 100.00
PIPE DIAMETER / GRADE	100.00, 100.00, 100.00 100.00, 100.00, 100.00 100.00, 100.00, 100.00
DISTANCE BETWEEN PITS	50.0, 50.0, 50.0 50.0, 50.0, 50.0 50.0, 50.0, 50.0
DOWNSTREAM INVERT LEVEL	100.00, 100.00, 100.00 100.00, 100.00, 100.00 100.00, 100.00, 100.00
TABLE DRAIN	— — — — —
PROPOSED SUBSOIL DRAINAGE PIPE	— — — — —
EXISTING SUBSOIL DRAINAGE PIPE	— — — — —
FUTURE SUBSOIL DRAINAGE PIPE	— — — — —
PROPOSED SEWER MAIN	— — — — —
EXISTING SEWER MAIN	— — — — —
FUTURE SEWER MAIN	— — — — —
PROPOSED WATER MAIN	— — — — —
EXISTING WATER MAIN	— — — — —
FUTURE WATER MAIN	— — — — —
PROPOSED CONCRETE PATH AND PRAM RAMP	— — — — —
BRICK PAVING (REFER BRICK PAVING TABLE)	— — — — —
BLACK ASPHALT WEARING COURSE	— — — — —
DESIGNATED GARAGE LOCATION	— — — — —
EXTEND ROAD PAVEMENT 3.0m PAST LIMIT OF ASPHALT AND INSTALL D4-5 CHEVRON BOARD	— — — — —
EXTEND ROAD PAVEMENT 3.0m PAST LIMIT OF ASPHALT. CONSTRUCT TEMPORARY TURNAROUND AND INSTALL 2 No. D4-5 HAZARD MARKERS	— — — — —
PROPOSED KERB TRANSITION	— — — — —
POST WITH STREET NAME PLATES	— — — — —
CHEVRON BOARD	— — — — —
PROPOSED RETAINING WALL	— — — — —
EXISTING RETAINING WALL	— — — — —
FUTURE RETAINING WALL	— — — — —

KERB TYPES

DESCRIPTION	SYMBOL
MOUNTABLE KERB	MK
SEMI MOUNTABLE KERB	SMK
BARRIER KERB	BK
FLUSH KERB	FK
REINFORCED FLUSH KERB	RFK
600mm CONCRETE RAMP	CR

BRICK PAVING TABLE

No.	TYPE	COLOUR	PATTERN
①	EASIPAVE 80 WASHED PAVERS BY BRIKMAKERS	GREY	TBA
②	EASIPAVE 80 SPILT BEVEL WASHED PAVERS BY BRIKMAKERS	CUSTOM DARK CHARCOAL	TBA

A 19.07.22 CT *[Signature]* ISSUED FOR APPROVAL

REV	DATE	DRN	CKD	APP	AMENDMENT

PROJECT EDEN BEACH (LOT 9 JINDALEE) - STAGE 29

TITLE ROADWORKS GENERAL ARRANGEMENT

APPROVED 19.07.22 DESIGNED MS

[Signature]

SCALE 1:1000

WAPC No. 157558

DRAWING No. 5636-LOT 9-29-600

REVISION A

ORIGINAL SIZE A1





1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE SPECIFICATION AND REQUIREMENTS OF THE LOCAL AUTHORITY.
2. THE CONTRACTOR SHALL LIAISE WITH ALL PUBLIC UTILITIES PRIOR TO COMMENCING WORK TO LOCATE ALL SERVICES WITHIN THE CONTRACT SITE
3. ALL LEVELS SHALL BE LOCATED FROM ESTABLISHED BENCHMARKS AS ESTABLISHED BY THE PROJECT SURVEYOR
4. ALL CONNECTIONS TO EXISTING WORK SHALL BE SMOOTH AND OF NEAT APPEARANCE.
5. REFER INTERSECTION DETAIL DRAWINGS FOR CORNER RADII AT INTERSECTIONS AND CUL-DE-SACS
6. ALL KERBING TO BE MOUNTABLE TYPE UNLESS NOTED OTHERWISE.
7. TRANSITION BETWEEN DIFFERENT KERB TYPES SHALL BE MADE OVER A LENGTH OF 2m.
8. WHERE POSSIBLE, STREET SIGNS TO BE STRAPPED TO STREET LIGHT POLES.
9. ALL CUTS THROUGH LIMESTONE SHALL BE EXCAVATED TO A DEPTH OF 100mm BELOW SUB-GRADE LEVEL AND 200mm BELOW THE FINISHED LEVEL OF VERGES.
10. STORMWATER PIPES SHALL BE REINFORCED CONCRETE (CLASS 2) R R J UNLESS NOTED OTHERWISE
11. DRAINAGE PIPES TO BE INSTALLED IN ACCORDANCE WITH AS3725 CONTRACTOR TO CONSIDER GROUND CONDITIONS, HAUNCHING, TRENCH CONDITIONS, LOAD PARAMETERS AND COMPACTION METHODS TO ENSURE INTEGRITY OF PIPE.
12. MANHOLES AND SIDE ENTRY PITS SHALL BE LOCATED IN POSITIONS SHOWN IRRESPECTIVE OF THE INDICATED PIPE LENGTHS AND WHERE APPLICABLE THE PITS SHALL BE LOCATED AT THE ACTUAL LOW POINT
13. MINIMUM COVER TO DRAINAGE PIPES TO BE 600mm UNLESS NOTED OTHERWISE. CLEARANCE WITH ALL OTHER SERVICES TO BE 150mm. CONTRACTOR TO ADVISE OF ANY DISCREPANCIES
14. WHERE A SEWER LINE INTERSECTS WITH A STORMWATER DRAINAGE LINE AND THE SEWER PASSES OVER THE DRAIN THEN THE SEWER SHALL HAVE A TIMBER PILE AND KEEL PROVIDED FOR THE FULL EXTENT NECESSARY TO SUPPORT THE SEWER DURING EXCAVATION FOR THE DRAIN.
15. THE ROADWORKS AND DRAINAGE DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE SEWERAGE RETICULATION PLAN(S) AND THE STANDARD DRAWING(S).
16. STORMWATER ACCESS CHAMBER LIDS IN VERGES ARE TO BE SET TO MATCH VERGE CROSSFALLS AND LEVELS.

- | | | |
|---|---|-----------------------|
| 1 | LOCAL AUTHORITY - CITY OF WANNEROO | |
| 2 | PROJECT SURVEYOR - MNG | |
| 3 | LANDSCAPE ARCHITECT - EPCAD PTY LTD | |
| 4 | REFERENCE DRAWINGS: | |
| | SEWERAGE RETICULATION PLAN | 5636-LOT 9-40-400-401 |
| | INTERSECTION DETAILS | 5636-LOT 9-40-620 |
| | WATER RETICULATION PLAN | 5636-LOT 9-40-500/501 |
| 5 | DRAINAGE PIPES TO BE LAID ON 35m ALIGNMENT IN ROAD RESERVES
UNLESS NOTED OTHERWISE | |

DESCRIPTION	SYMBOL															
LIMIT OF WORKS BOUNDARY																
PROPOSED ROAD																
EXISTING ROAD																
FUTURE ROAD																
PROPOSED DRAINAGE PIPE																
EXISTING DRAINAGE PIPE																
FUTURE DRAINAGE PIPE																
PROPOSED DRAINAGE PIPE WITH JUNCTION PIT (JP), SIDE ENTRY PIT (SEP), GRATED PIT (GP) AND CIRCULAR GRATED PIT (GP)																
DRAINAGE PIT LABEL	<div><div><div>★ OR ● LINER & LID LEVEL</div><div><div>PIT TYPE</div><div><div>JP 01</div><div>JP 02</div><div>JP 03</div></div></div><div><div>CHAINAGE OR CO-ORD</div><div>★ PROVIDE TEMPORARY LID</div><div>● CONVERT EXISTING LID</div></div></div></div>															
DRAINAGE PIT LID NOTATION	<div>★ PROVIDE TEMPORARY LID</div> <div>● CONVERT EXISTING LID</div>															
UPSTREAM INVERT LEVEL	<table><tr><th>PROPOSED</th><th>EXISTING</th><th>FUTURE</th></tr><tr><td>U/S 20.50</td><td>U/S 20.50</td><td>U/S 20.50</td></tr><tr><td>300/100.0</td><td>300/100.0</td><td>300/100.0</td></tr><tr><td>50.0</td><td>50.0</td><td>50.0</td></tr><tr><td>D/S 20.00</td><td>D/S 20.00</td><td>D/S 20.00</td></tr></table>	PROPOSED	EXISTING	FUTURE	U/S 20.50	U/S 20.50	U/S 20.50	300/100.0	300/100.0	300/100.0	50.0	50.0	50.0	D/S 20.00	D/S 20.00	D/S 20.00
PROPOSED	EXISTING	FUTURE														
U/S 20.50	U/S 20.50	U/S 20.50														
300/100.0	300/100.0	300/100.0														
50.0	50.0	50.0														
D/S 20.00	D/S 20.00	D/S 20.00														
PIPE DIAMETER / GRADE																
DISTANCE BETWEEN PITS																
DOWNSIDE INVERT LEVEL																
TABLE DRAIN																
PROPOSED SUBSOIL DRAINAGE PIPE																
EXISTING SUBSOIL DRAINAGE PIPE																
FUTURE SUBSOIL DRAINAGE PIPE																
PROPOSED SEWER MAIN																
EXISTING SEWER MAIN																
FUTURE SEWER MAIN																
PROPOSED WATER MAIN																
EXISTING WATER MAIN																
FUTURE WATER MAIN																
PROPOSED CONCRETE PATH AND PRAM RAMP																
PROPOSED 3.0m WIDE RED ASPHALT P S P																
BRICK PAVING (REFER BRICK PAVING TABLE)																
BLACK ASPHALT WEARING COURSE																
EXTEND ROAD PAVEMENT 3.0m PAST LIMIT OF ASPHALT AND INSTALL D4-5 CHEVRON BOARD																
EXTEND ROAD PAVEMENT 3.0m PAST LIMIT OF ASPHALT, CONSTRUCT TEMPORARY Ø18 TURNAROUND AND INST ALL 2 No. D4-5 HAZARD MARKERS																
PROPOSED KERB TRANSITION																
POST WITH STREET NAME PLATES																
CHEVRON BOARD																
PROPOSED RETAINING WALL																
EXISTING RETAINING WALL																
FUTURE RETAINING WALL																

DESCRIPTION	SYMBOL
MOUNTABLE KERB	MK
SEMI MOUNTABLE KERB	SMK
FLUSH KERB	FK
REINFORCED FLUSH KERB	RFK

No.	TYPE	COLOUR	PATTERN
①	EASIPAVE 80 SPLIT BEVEL WASHED PAVERS (220mmx110mmx80mm)	CUSTOM DARK CHARCOAL	HERRINGBONE

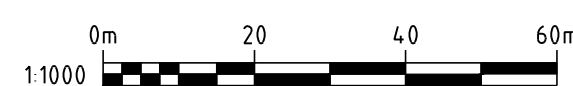
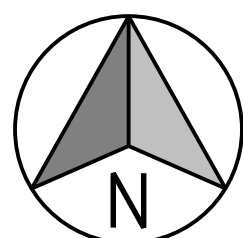
SYMBOL	TYPE	ELEMENT	THICKNESS S (mm)
	EXISTING	N/A	N/A
	BLACK ASPHALT	LIMESTONE SUB-BASE	200mm
		HIGH FATIGUE RESISTANT BASE COURSE ASPHALT	40mm
		WEARING COURSE ASPHALT	25mm

THE SITE IS IDENTIFIED AS HAVING RISK OF UNEXPLODED
ORDNANCE.

"NO EXCAVATION OR OTHER DISTURBANCE OF THE SOIL ON THIS SITE SHOULD BE CARRIED OUT WITHOUT FIRST OBTAINING CLEARANCE FROM THE UNEXPLODED ORDNANCE BRANCH OF THE W.A. POLICE DEPARTMENT."

IT IS THE CONTRACTORS RESPONSIBILITY TO INVESTIGATE THE NATURE AND LOCATION OF ALL SERVICES WHICH MAY BE ENCOUNTERED AND TO CONSULT WITH THE RELEVANT SERVICE AUTHORITIES PRIOR TO COMMENCEMENT OF EXCAVATIONS. FAILURE TO DO SO OR TO TAKE DUE CARE SHALL NOT LIMIT THE CONTRACTORS LIABILITY FOR REPAIR OF ALL SERVICES DAMAGED BY HIM DURING CONSTRUCTION WORKS. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY FOR THE PROTECTION OF ALL EXISTING SERVICES.

0	11.04.22	AMP	ENG	J M	ISSUED FOR CONSTRUCTION
A	28.03.22	DMC	DOB	B MARSHALL	ISSUED FOR APPROVAL
REV	DATE	DRN	CKD	APP	AMENDMENT



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<p>This plan is not to be used for construction unless issued as revision 0 or higher</p>	



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Subiaco WA 6904	Subiaco WA 6008

T (08) 9422 5800 F (08) 9422 5801 E admin@cosweb.com.au

CLIENT	OCEAN SPRINGS PTY LTD (BUTLER JV)
--------	-----------------------------------

APPROVED	11.04.23
----------	----------

Free

PROJECT	EDEN BEACH (LOT 9 JINDALEE) - STAGE 40
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TITLE	ROADWORKS GENERAL ARRANGEMENT
-------	-------------------------------

WAPC No.	159574
----------	--------

DRAWING No.	5636-1 OT 9-40-600
-------------	--------------------

REVISION
0

Appendix C Vegetation plot photos and descriptions

Plot 1	
Vegetation classification	Class C Shrubland (Downslope >5–10 degrees)
Description / justification	Shrub vegetation less than 2 m high at maturity
<div> <div> <div>E</div> <div>120</div> <div>SE</div> <div>150</div> <div>180</div> <div>SW</div> <div>240</div> <div>270</div> </div> <div> <div>179°S (T)</div> <div>31.637329°S, 115.677008°E ±78ft ▲57ft</div> </div> </div>  <div>20 Jul 2022, 10:14:42</div>	<div> <div> <div>SW</div> <div>240</div> <div>W</div> <div>270</div> <div>NW</div> <div>330</div> <div>N</div> <div>0</div> </div> <div> <div>282°W (T)</div> <div>31.637252°S, 115.677119°E ±26ft ▲53ft</div> </div> </div>  <div>20 Jul 2022, 10:14:50</div>
<div> <div> <div>E</div> <div>120</div> <div>SE</div> <div>150</div> <div>180</div> <div>S</div> <div>SW</div> <div>240</div> </div> <div> <div>147°SE (T)</div> <div>31.634463°S, 115.674371°E ±78ft ▲56ft</div> </div> </div>  <div>20 Jul 2022, 10:26:23</div>	<div> <div> <div>W</div> <div>270</div> <div>NW</div> <div>330</div> <div>N</div> <div>0</div> <div>NE</div> <div>60</div> </div> <div> <div>326°NW (T)</div> <div>31.634503°S, 115.674116°E ±19ft ▲50ft</div> </div> </div>  <div>20 Jul 2022, 10:27:06</div>
<div> <div> <div>E</div> <div>120</div> <div>SE</div> <div>150</div> <div>180</div> <div>S</div> <div>SW</div> <div>240</div> </div> <div> <div>169°S (T)</div> <div>31.635961°S, 115.675948°E ±39ft ▲47ft</div> </div> </div>  <div>20 Jul 2022, 10:17:49</div>	<div>Photo ID: 1d</div>
<div>Photo ID: 1e</div>	

Plot 2	
Vegetation classification	Class C Shrubland (Flat/upslope)
Description / justification	Shrub vegetation less than 2 m high at maturity
<div> <div>SE120150180S210SW240W270</div> <div>☉ 191°S (T) ☉ 31.637234°S, 115.677111°E ±19ft ▲ 53ft</div>  <div>20 Jul 2022, 10:15:12</div> </div> <div>Photo ID: 2a</div>	<div> <div>S180210SW240W270NW300330</div> <div>☉ 257°W (T) ☉ 31.637218°S, 115.677103°E ±19ft ▲ 53ft</div>  <div>20 Jul 2022, 10:15:36</div> </div> <div>Photo ID: 2b</div>
<div> <div>SW210W270NW330N0</div> <div>☉ 281°W (T) ☉ 31.635951°S, 115.675971°E ±39ft ▲ 47ft</div>  <div>20 Jul 2022, 10:17:56</div> </div> <div>Photo ID: 2c</div>	<div> <div>E90120SE150S180SW240</div> <div>☉ 173°S (T) ☉ 31.635980°S, 115.675975°E ±26ft ▲ 49ft</div>  <div>20 Jul 2022, 10:18:05</div> </div> <div>Photo ID: 2d</div>
<div> <div>SE120150180S210SW240W270300</div> <div>☉ 210°SW (T) ☉ 31.635960°S, 115.675980°E ±39ft ▲ 48ft</div>  <div>20 Jul 2022, 10:18:13</div> </div> <div>Photo ID: 2e</div>	<div> <div>E90120SE150S180SW240W270</div> <div>☉ 185°S (T) ☉ 31.634530°S, 115.674383°E ±26ft ▲ 53ft</div>  <div>20 Jul 2022, 10:26:32</div> </div> <div>Photo ID: 2f</div>

Plot 2



Photo ID: 2g



Photo ID: 2h



Photo ID: 2i

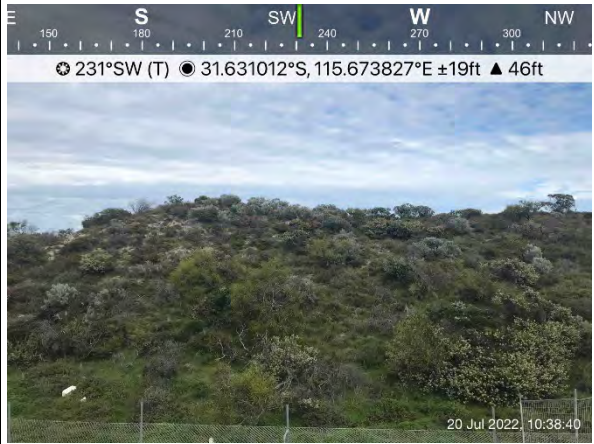


Photo ID: 2j



Photo ID: 2k

Plot 3

Vegetation classification	Excluded – Non-vegetated and Low threat (Clause 2.2.3.2 [e] and [f])
Description / justification	Low threat cultivated gardens and maintained lawns within surrounding properties and non-vegetated areas including roads, footpaths, driveways and building footprints



Photo ID: 3a



Photo ID: 3b



Photo ID: 3c



Photo ID: 3d



Photo ID: 3e



Photo ID: 3f

Plot 3



Photo ID: 3g



Photo ID: 3h



Photo ID: 3i



Photo ID: 3j



Photo ID: 3k



Photo ID: 3l

Plot 3



Photo ID: 3m



Photo ID: 3n



Photo ID: 3o



Photo ID: 3p

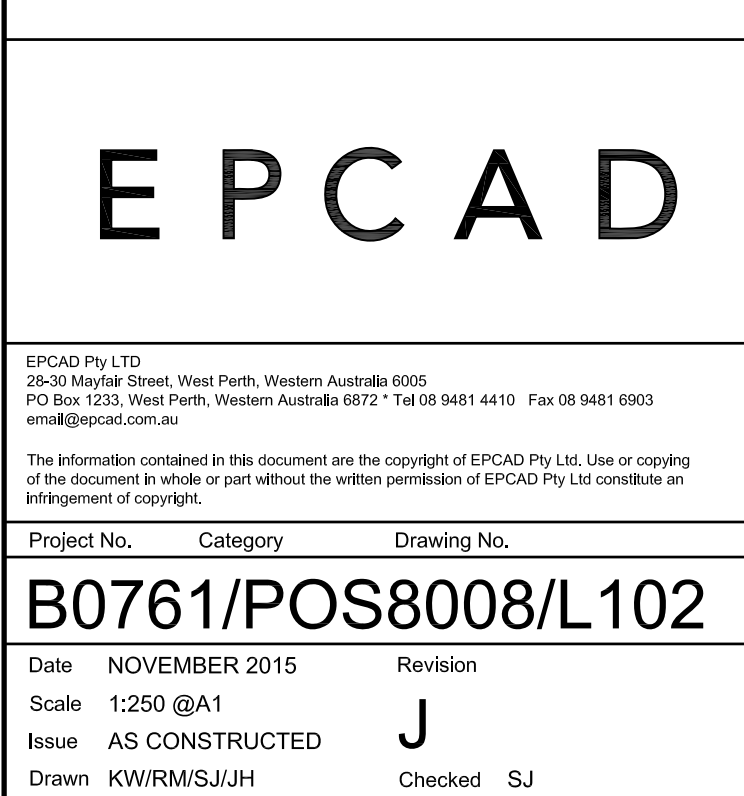
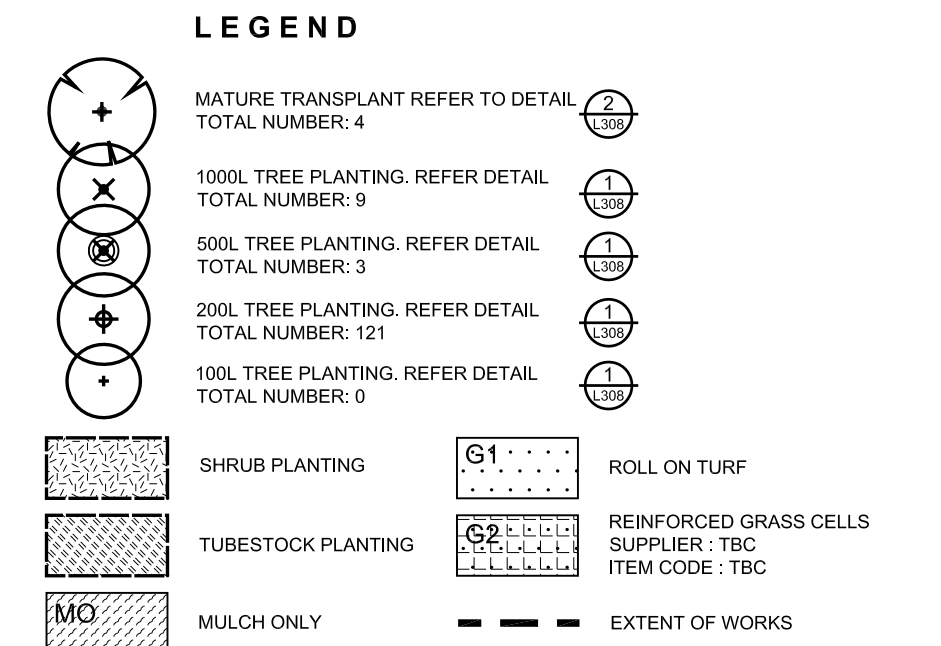


Photo ID: 3q



Photo ID: 3r

Appendix D POS landscape drawings



1211A

EDEN BEACH
FORESHORE GENERAL WORKS

(Contract No B0761/GF/L)

for

OCEAN SPRINGS PTY LTD

SEPTEMBER 2020

AS CONSTRUCTED



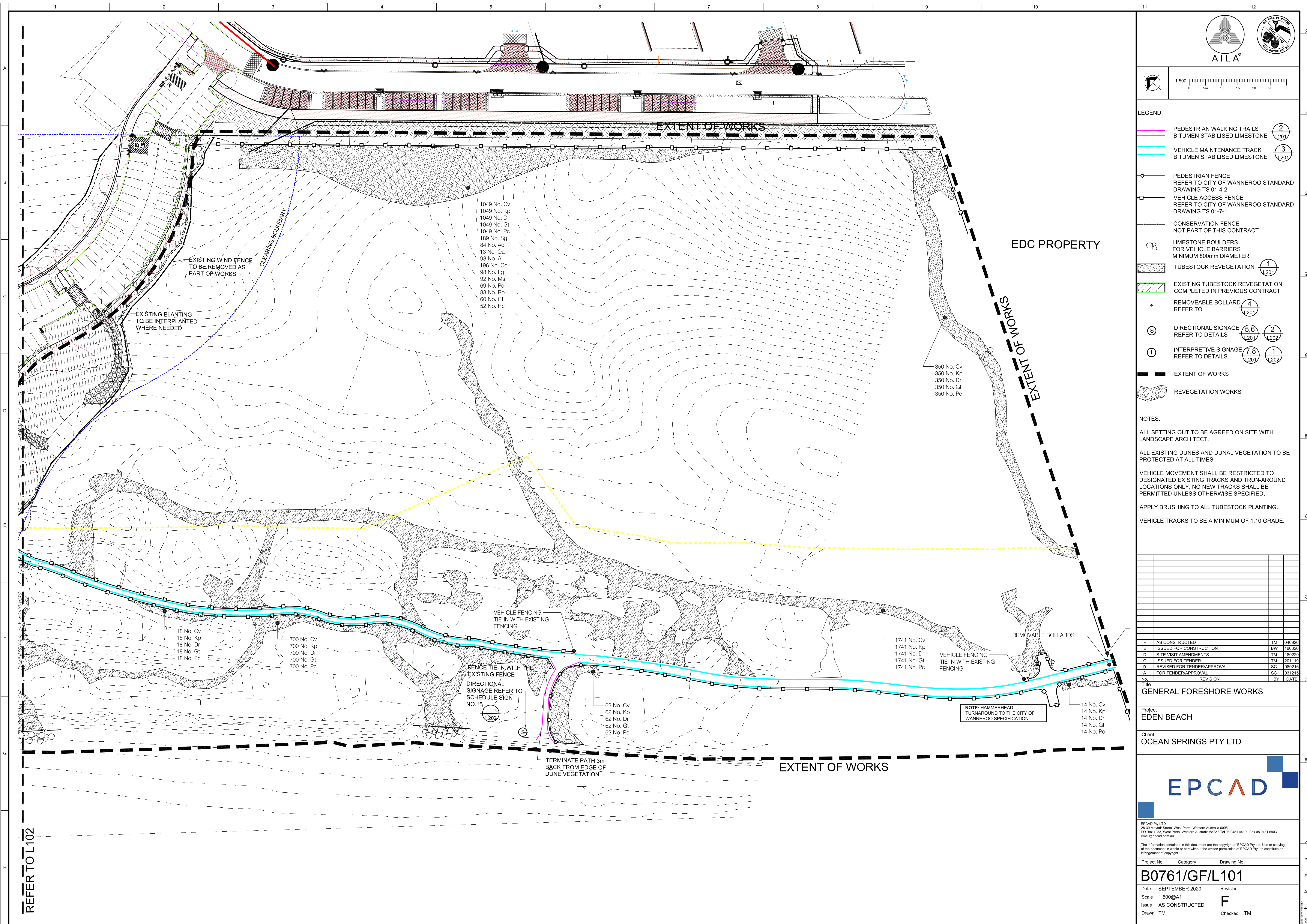
EPCAD

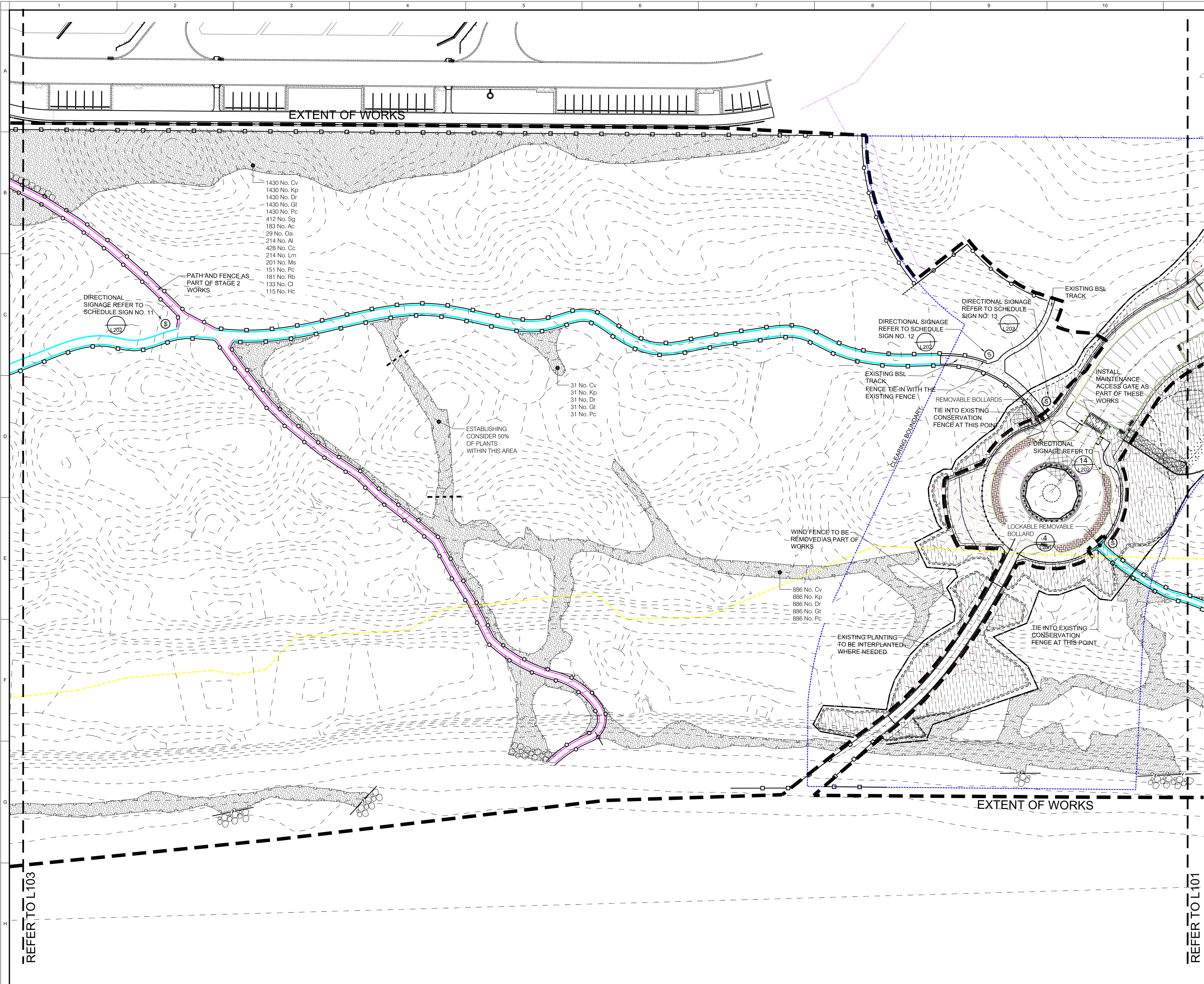
DRAWING SCHEDULE



EPCAD PTY LTD



Drawing No.	Title
B0761 / GF / L100	COVER SHEET
B0761 / GF / L101	GENERAL FORESHORE WORKS SHEET 1 OF 7
B0761 / GF / L102	GENERAL FORESHORE WORKS SHEET 2 OF 7
B0761 / GF / L103	GENERAL FORESHORE WORKS SHEET 3 OF 7
B0761 / GF / L104	GENERAL FORESHORE WORKS SHEET 4 OF 7
B0761 / GF / L105	GENERAL FORESHORE WORKS SHEET 5 OF 7
B0761 / GF / L106	GENERAL FORESHORE WORKS SHEET 6 OF 7
B0761 / GF / L107	GENERAL FORESHORE WORKS SHEET 7 OF 7
B0761 / GF / L201	GENERAL DETAILS
B0761 / GF / L202	SIGN DETAILS







AILA®

1:500

0 5m 10 15 20 25 30

LEGEND

- PEDESTRIAN WALKING TRAILS
BITUMEN STABILISED LIMESTONE
- VEHICLE MAINTENANCE TRACK
BITUMEN STABILISED LIMESTONE
- PEDESTRIAN FENCE
REFER TO CITY OF WANNEROO STANDARD
DRAWING TS 01-4-2
- VEHICLE ACCESS FENCE
REFER TO CITY OF WANNEROO STANDARD
DRAWING TS 01-7-1
- CONSERVATION FENCE
NOT PART OF THIS CONTRACT
- LIMESTONE BOULDERS
FOR VEHICLE BARRIERS
MINIMUM 800mm DIAMETER
- TUBESTOCK REVEGETATION
- EXISTING TUBESTOCK REVEGETATION
COMPLETED IN PREVIOUS CONTRACT
- REMOVEABLE BOLLARD
REFER TO
- DIRECTIONAL SIGNAGE
REFER TO DETAILS
- INTERPRETIVE SIGNAGE
REFER TO DETAILS
- EXTENT OF WORKS
- REVEGETATION WORKS

NOTES:

ALL SETTING OUT TO BE AGREED ON SITE WITH
LANDSCAPE ARCHITECT.

ALL EXISTING DUNES AND DUNAL VEGETATION TO BE
PROTECTED AT ALL TIMES.

VEHICLE MOVEMENT SHALL BE RESTRICTED TO
DESIGNATED EXISTING TRACKS AND TRUN-AROUND
LOCATIONS ONLY, NO NEW TRACKS SHALL BE
PERMITTED UNLESS OTHERWISE SPECIFIED.

APPLY BRUSHING TO ALL TUBESTOCK PLANTING.

VEHICLE TRACKS TO BE A MINIMUM OF 1:10 GRADE.

No.	REVISION	BY	DATE
F	AS CONSTRUCTED	TM	040920
E	ISSUED FOR CONSTRUCTION	BW	160320
D	SITE VISIT AMENDMENTS	TM	180220
C	ISSUED FOR TENDER	TM	201119
B	REVISED FOR TENDER/APPROVAL	SC	080216
A	FOR TENDER/APPROVAL	SC	031215

GENERAL FORESHORE WORKS

Project
EDEN BEACH

Client
OCEAN SPRINGS PTY LTD

EPCAD

EPCAD Pty Ltd
28-30 Maylar Street, West Perth, Western Australia 6005
P.O. Box 1233, West Perth, Western Australia 6012 Tel 08 9481 4410 Fax 08 9481 6903
email@epcad.com.au

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Project No.	Category	Drawing No.
B0761/GF/L102		
Date	SEPTEMBER 2020	Revision
Scale	1:500@A1	
Issue	AS CONSTRUCTED	F
Drawn	TM	Checked TM





1:500

0 5m 10 15 20 25 30

LEGEND

- PEDESTRIAN WALKING TRAILS
- BITUMEN STABILISED LIMESTONE
- VEHICLE MAINTENANCE TRACK
- BITUMEN STABILISED LIMESTONE
- PEDESTRIAN FENCE
REFER TO CITY OF WANNEROO STANDARD
DRAWING TS 01-4-2
- VEHICLE ACCESS FENCE
REFER TO CITY OF WANNEROO STANDARD
DRAWING TS 01-7-1
- CONSERVATION FENCE
NOT PART OF THIS CONTRACT
- LIMESTONE BOULDERS
FOR VEHICLE BARRIERS
MINIMUM 800mm DIAMETER
- TUBESTOCK REVEGETATION
- EXISTING TUBESTOCK REVEGETATION
COMPLETED IN PREVIOUS CONTRACT
- REMOVEABLE BOLLARD
REFER TO
- DIRECTIONAL SIGNAGE
REFER TO DETAILS
- INTERPRETIVE SIGNAGE
REFER TO DETAILS
- EXTENT OF WORKS
- REVEGETATION WORKS

NOTES:

ALL SETTING OUT TO BE AGREED ON SITE WITH LANDSCAPE ARCHITECT.

ALL EXISTING DUNES AND DUNAL VEGETATION TO BE PROTECTED AT ALL TIMES.

VEHICLE MOVEMENT SHALL BE RESTRICTED TO DESIGNATED EXISTING TRACKS AND TRUN-AROUND LOCATIONS ONLY, NO NEW TRACKS SHALL BE PERMITTED UNLESS OTHERWISE SPECIFIED.

APPLY BRUSHING TO ALL TUBESTOCK PLANTING.

VEHICLE TRACKS TO BE A MINIMUM OF 1:10 GRADE.

No.	REVISION	BY	DATE
F	AS CONSTRUCTED	TM	040920
E	ISSUED FOR CONSTRUCTION	BW	160320
D	SITE VISIT AMENDMENTS	TM	180220
C	ISSUED FOR TENDER	TM	201119
B	REVISED FOR APPROVAL/TENDER	SC	080216
A	FOR TENDER/APPROVAL	SC	031215

GENERAL FORESHORE WORKS

Project
EDEN BEACH

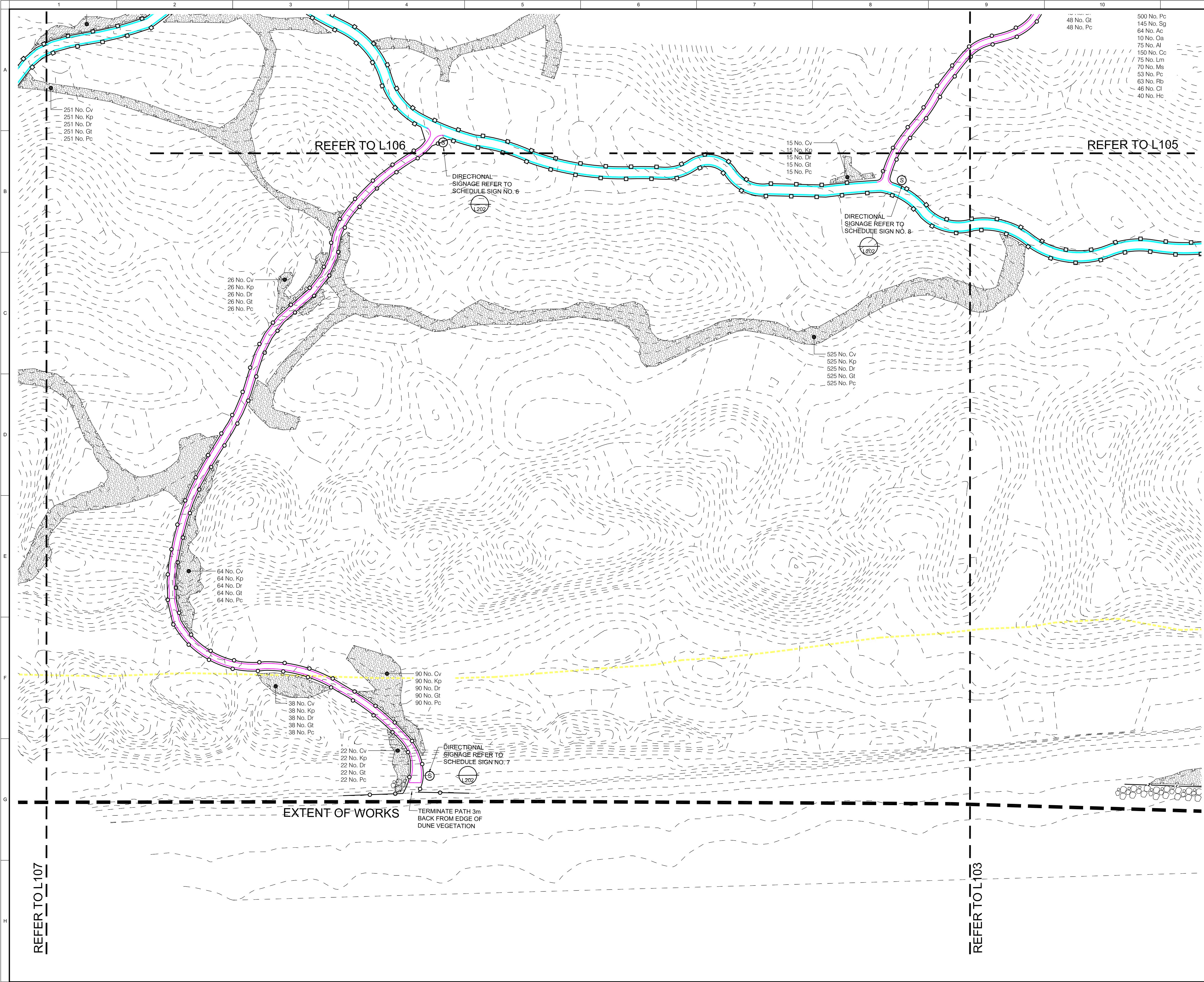
Client
OCEAN SPRINGS PTY LTD





EPCAD Pty Ltd
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PO Box 1233, West Perth, Western Australia 6012 Tel 08 9481 4410 Fax 08 9481 6903
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Project No.	Category	Drawing No.
B0761/GF/L103		
Date	SEPTEMBER 2020	Revision
Scale	1:500@A1	
Issue	AS CONSTRUCTED	F
Drawn	TM	Checked TM





AILA®

1:500

0 5m 10 15 20 25 30

LEGEND

- PEDESTRIAN WALKING TRAILS (2) (L201)
- BITUMEN STABILISED LIMESTONE
- VEHICLE MAINTENANCE TRACK (3) (L201)
- BITUMEN STABILISED LIMESTONE
- PEDESTRIAN FENCE (REFER TO CITY OF WANNEROO STANDARD DRAWING TS 01-4-2)
- VEHICLE ACCESS FENCE (REFER TO CITY OF WANNEROO STANDARD DRAWING TS 01-7-1)
- CONSERVATION FENCE (NOT PART OF THIS CONTRACT)
- LIMESTONE BOULDERS FOR VEHICLE BARRIERS (MINIMUM 800mm DIAMETER)
- TUBESTOCK REVEGETATION (1) (L201)
- EXISTING TUBESTOCK REVEGETATION COMPLETED IN PREVIOUS CONTRACT
- REMOVEABLE BOLLARD (4) (L201)
- DIRECTIONAL SIGNAGE (REFER TO DETAILS) (5,6) (L201) (2) (L202)
- INTERPRETIVE SIGNAGE (REFER TO DETAILS) (7,8) (L201) (1) (L202)
- EXTENT OF WORKS
- REVEGETATION WORKS

NOTES:

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ALL EXISTING DUNES AND DUNAL VEGETATION TO BE PROTECTED AT ALL TIMES.

VEHICLE MOVEMENT SHALL BE RESTRICTED TO DESIGNATED EXISTING TRACKS AND TRUN-AROUND LOCATIONS ONLY. NO NEW TRACKS SHALL BE PERMITTED UNLESS OTHERWISE SPECIFIED.

APPLY BRUSHING TO ALL TUBESTOCK PLANTING.

VEHICLE TRACKS TO BE A MINIMUM OF 1:10 GRADE.

No.	REVISION	BY	DATE
F	AS CONSTRUCTED	TM	040920
E	ISSUED FOR CONSTRUCTION	BW	160320
D	SITE VISIT AMENDMENTS	TM	180220
C	ISSUED FOR TENDER	TM	201119
B	REVISED FOR TENDER/APPROVAL	SC	080216
A	FOR TENDER/APPROVAL	SC	031215

Title


GENERAL FORESHORE WORKS

Project

EDEN BEACH

Client

OCEAN SPRINGS PTY LTD



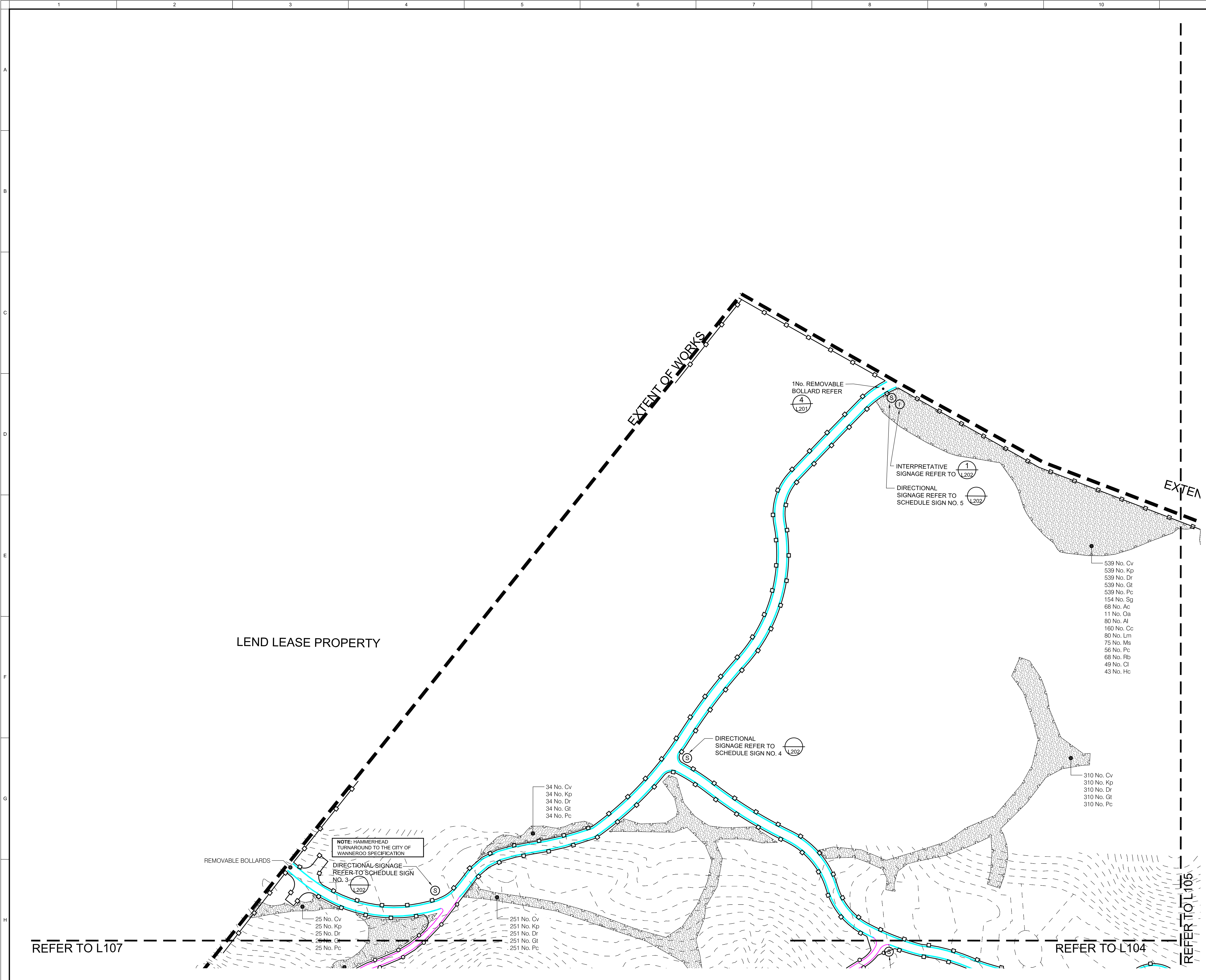
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Project No.	Category	Drawing No.
		B0761/GF/L104
Date	SEPTEMBER 2020	Revision
Scale	1:500@A1	
Issue	AS CONSTRUCTED	F
Drawn	TM	Checked TM









LEGEND

- PEDESTRIAN WALKING TRAILS
BITUMEN STABILISED LIMESTONE
- VEHICLE MAINTENANCE TRACK
BITUMEN STABILISED LIMESTONE
- PEDESTRIAN FENCE
REFER TO CITY OF WANNEROO STANDARD
DRAWING TS 01-4-2
- VEHICLE ACCESS FENCE
REFER TO CITY OF WANNEROO STANDARD
DRAWING TS 01-7-1
- CONSERVATION FENCE
NOT PART OF THIS CONTRACT
- LIMESTONE BOULDERS
FOR VEHICLE BARRIERS
MINIMUM 800mm DIAMETER
- TUBESTOCK REVEGETATION
- EXISTING TUBESTOCK REVEGETATION
COMPLETED IN PREVIOUS CONTRACT
- REMOVABLE BOLLARD
REFER TO
- DIRECTIONAL SIGNAGE
REFER TO DETAILS
- INTERPRETIVE SIGNAGE
REFER TO DETAILS
- EXTENT OF WORKS
- REVEGETATION WORKS

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Title

GENERAL FORESHORE WORKS

Project

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Client

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Project No.	Category	Drawing No.
B0761/GF/L106		
Date	SEPTEMBER 2020	Revision
Scale	1:500@A1	
Issue	AS CONSTRUCTED	F
Drawn	TM	Checked TM

TUBESTOCK		SIZE	MIX %	QTY
PLANTED @ 450mm CENTRES				
Cv	Carpobrotus virescens	tubestock		12630
Dr	Dianella revoluta	tubestock		12630
Gt	Gompholobium tomentosum	tubestock		12630
Kp	Kennedia prostrata	tubestock		12630
Pc	Phyllanthus calycinus	tubestock		13141
Sg	Spyridium globulosum	tubestock		1900
Ac	Acacia cochlearis	tubestock		620
Oa	Olearia axillaris	tubestock		99
Al	Acacia lasiocarpa	tubestock		726
Cc	Conostylis candicans	tubestock		1452
Lm	Lomandra maritima	tubestock		726
Ms	Melaleuca systema	tubestock		682
Rb	Rhagodia baccata	tubestock		614
Cl	Clematis linearifolia	tubestock		449
Hc	Hardenbergia comptoniana	tubestock		390

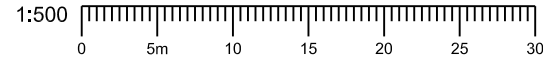




AILA®



1:500



LEGEND

- PEDESTRIAN WALKING TRAILS (2) (L201)
- BITUMEN STABILISED LIMESTONE (L201)
- VEHICLE MAINTENANCE TRACK (3) (L201)
- BITUMEN STABILISED LIMESTONE (L201)
- PEDESTRIAN FENCE REFER TO CITY OF WANNEROO STANDARD DRAWING TS 01-4-2
- VEHICLE ACCESS FENCE REFER TO CITY OF WANNEROO STANDARD DRAWING TS 01-7-1
- CONSERVATION FENCE NOT PART OF THIS CONTRACT
- LIMESTONE BOULDERS FOR VEHICLE BARRIERS MINIMUM 800mm DIAMETER
- TUBESTOCK REVEGETATION (1) (L201)
- EXISTING TUBESTOCK REVEGETATION COMPLETED IN PREVIOUS CONTRACT
- REMOVABLE BOLLARD REFER TO (4) (L201)
- DIRECTIONAL SIGNAGE REFER TO DETAILS (5,6) (L201) (2) (L201)
- INTERPRETIVE SIGNAGE REFER TO DETAILS (7,8) (L201) (1) (L201)
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A	FOR TENDER/APPROVAL	SC	031215

Title

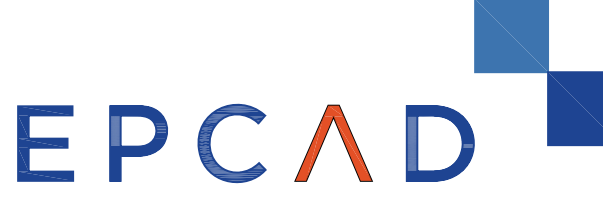
GENERAL FORESHORE WORKS

Project

EDEN BEACH

Client

OCEAN SPRINGS PTY LTD



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Project No.	Category	Drawing No.
B0761/GF/L107		

Date	SEPTMBER 2020	Revision
Scale	1:500@A1	
Issue	AS CONSTRUCTED	F
Drawn	TM	Checked TM

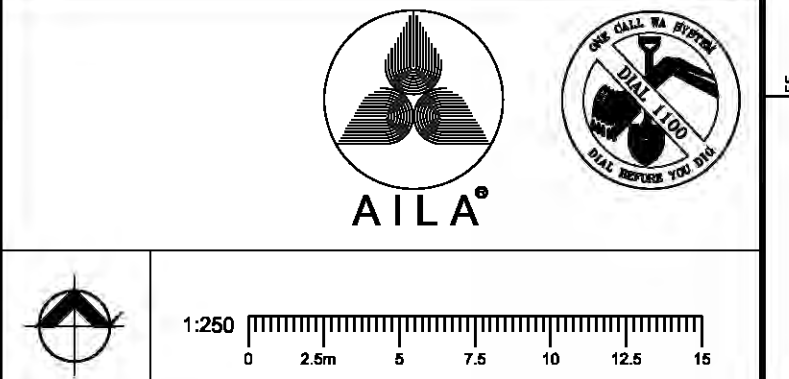
PLANT SCHEDULE

TREES		SIZE	QTY
Ah	Araucaria heterophylla	MATURE TRANSPLANT	9
Af	Agonis flexuosa	200L	37
Pc	Phoenix canariensis	MATURE TRANSPLANT	6
		TOTAL	52

TUBESTOCK MIX @ 750mm CENTRES		
tAi	Acacia lasiocarpa prostrate	VIROTUBE 336
tCi	Calytrix leschenaultii	VIROTUBE 336
tDc	Darwinia citriodora 'Sea Spray'	VIROTUBE 336
tGG	Grevillea Gilt Dragon	VIROTUBE 336
tPf	Pimelea ferruginea	VIROTUBE 336
tWA	Westringia 'Aussie Box'	VIROTUBE 336
		TOTAL 2016

LITTORAL MIX @ 750mm CENTRES		
Bp	Baumea preissii	VIROTUBE 774
Fno	Ficinia nodosa	VIROTUBE 774
jk	Juncus kraussii	VIROTUBE 774
jp	Juncus pallidus	VIROTUBE 774
		TOTAL 3096

SHRUB PLANTING		SIZE	CENTRES	QTY
AcMC	Acacia cognata 'Mini Cog'	200mm	600mm	470
DcSS	Darwinia citriodora 'Sea Spray'	200mm	750mm	550
DI	Dampiera linearis	200mm	550mm	612
DSt	Dianella 'Streetscape'	200mm	750mm	271
Fn	Ficinia nodosa	200mm	750mm	519
GGD	Grevillea Gilt Dragon	200mm	750mm	153
Gt	Gazania tennifolia	200mm	550mm	182
Lbr	Leucophyta brownii	200mm	750mm	133
Lg	Lepidosperma gladiatum	200mm	550mm	350
LLC	Lomandra 'Little Con'	200mm	600mm	314
LLo	Leucophyta longifolia	200mm	750mm	133
LLT	Lomandra 'Lime tuff'	200mm	750mm	323
Or	Olearia nudis	200mm	550mm	145
Pfe	Pimelea ferruginea	200mm	550mm	145
Po	Patersonia occidentalis	200mm	750mm	400
WAB	Westringia 'Aussie Box'	200mm	750mm	153
SaPF	Scaevola aemula 'Purple Fanfare'	200mm	550mm	430
		TOTAL		5283



GENERAL NOTES:

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EXISTING ROADS AND FOOTPATHS TO BE KEPT CLEAR OF OBSTRUCTION AND KEPT CLEAN AT ALL TIMES.

TRAFFIC MANAGEMENT TO THE SATISFACTION OF THE RELEVANT AUTHORITY TO BE IMPLEMENTED WHERE REQUIRED.

BULK EARTHWORKS TO BE CARRIED OUT BY THE ENGINEERING CONTRACTOR AS PER THE DRAWINGS PROVIDED (FOR INFORMATION ONLY). ALL REMAINING BULK EARTHWORKS TO BE CARRIED OUT BY THE LANDSCAPE CONTRACTOR. FILL FOR ADDITIONAL EARTHWORKS WILL BE PROVIDED ON SITE BY THE ENGINEERING CONTRACTOR.

ALL LIMESTONE TO BE SOURCED FROM ON SITE STOCKPILES. THE LANDSCAPE CONTRACTOR IS TO ALLOW FOR BREAKING UP OF ROCKS TO OBTAIN A VARIETY OF SIZES AS SPECIFIED.

ALL TREE PLANTING TO BE AS PER THE UTILITY PROVIDERS CODE OF PRACTICE.

AS PER MAIN ROADS GUIDANCE NO TREES TO BE PLANTED WITHIN 6.0m OF THE ROAD CARRIAGEWAY.

ALL MEDIANS AND VERGES ON ROADS OF 80KM/H ARE TO HAVE NO PLANTING WITHIN 1.2M OF THE KERB LINE.

ALL GRASS SLOPES TO BE NO MORE THAN 1 IN 6.

ALL SHRUBS BED GRADES TO BE NO MORE THAN 1 IN 3.

FOOTPATHS TO BE A MINIMUM OF 1 IN 14 GRADE (UNLESS ADJACENT ROAD CONTOURS PREVENT THIS)

PRAM RAMPS WILL BE INSTALLED AS PART OF THE ENGINEERING WORKS.

UNLESS INDICATED ALL SUBDIVISION FOOTPATHS ARE TO BE INSTALLED BY OTHERS.

TREES TO BE SET BACK FROM KER AND FOOTPATH BY 1.0 METRES

TREES TO BE SET BACK FROM FOOTPATH CROSS OVERS BY 1.5 METRES

TREES TO BE SET BACK FROM STRUCTURES BY 2.5 METRES

NO TREES TO BE PLANTED IN INTERSECTION TRUNCATIONS TO PROVIDE SIGHTLINES

ALL PLANTING TO BE MIN 600mm SETBACK FROM KERBS

LEGEND

MATURE TREE TRANSPLANT (15/200)

200 LITRE TREE SUPPLY (15/200)

100 LITRE TREE SUPPLY (15/200)

SHRUB PLANTING REFER PLANTING SCHEDULE (9/10/1200)

LITTORAL PLANTING (9/10/1200)

PAVING TYPE 1:
ALTERNATING PAVEMENT PATTERN
- 400 x 400 HONED URBANSTONE 924 (MID GREY)
- 400 x 400 HONED URBANSTONE 789 (CREAM)
- 400 x 400 HONED URBANSTONE 777 (DARK GREY) (8/1200)

MULCH ONLY

PAVING TYPE 2:
PLAIN GREY CONCRETE PAVING (6/1200)

PAVING TYPE 2.1:
MAINTENANCE ACCESS PATH WHERE 2.5M WIDE PATH TO BE REINFORCED EXPOSED AGGREGATE

PAVING TYPE 2.2:
COLOURED CONCRETE WITH ROCK SALT PITTED TEXTURE (CCS COLOUR: LYCHEE) (4/1200)

SOFTFALL TO PLAYSPACE. REFER (7/1200)

PAVING TYPE 3:
EMULSION STABILISED LIMESTONE. INSTALL CONCRETE EDGE WHERE GRAVEL ABUTS SHRUB BED OR GRASSSED AREA. REFER (12/1200)

ROLL ON TURF

LIMESTONE ROCK PITCHING TO FLUME OUTLET TO DISSIPATE FLOWS (WORKS BY CIVIL)

BOULDER PLACEMENT. REFER (13/1200)

EXISTING LIGHT POLES

LIMESTONE BLOCK WALL. REFER (1/2/1200)

LIMESTONE BLOCK EDGE. REFER (12/1200)

CONCRETE EDGE. REFER (5/1200)

PARK SEAT. REFER (5/1201)

CONCRETE CUBE SEATS. REFER (1/1201)

DECORATIVE POLE INSTALLATIONS. REFER DETAIL (6/1201)

SCULPTURE INSTALLATION TO FUTURE DETAIL

REMOVABLE BOLLARD TO BE PAINTED WHITE WITH RED REFLECTIVE STRIP AT TOP (14/1200)

EXTENT OF WORKS

1 IN 1 YEAR FLOOD LEVEL : 16.5

PROPOSED CONTOURS

GENERAL ARRANGEMENT, KEY & PLANTING PLAN 1 OF 2

Project
EDEN BEACH: LOT 9 JINDALEE REFLECTION BOULEVARD POS8007

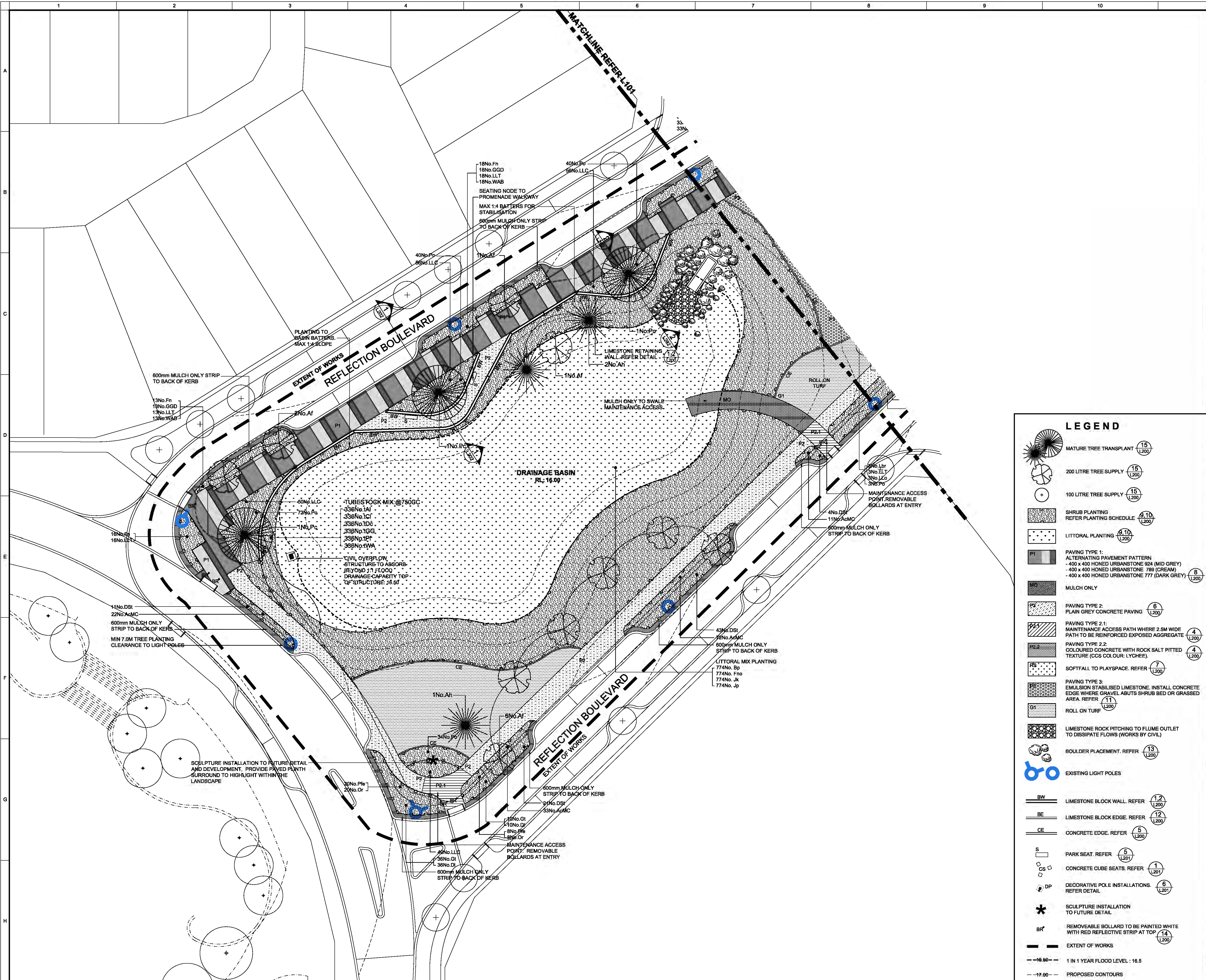
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Project No.	Category	Drawing No.
B0761/RBPOS/L101		
Date	NOVEMBER 2014	Revision
Scale	1:250 @ A1	M
Issue	AS CONSTRUCTED	Checked
Drawn	RM	





1:250

0 2.5m 5 7.5 10 12.5 15

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ALL MEDIANS AND VERGES ON ROADS OF 60KM/H ARE TO HAVE NO PLANTING WITHIN 1.2M OF THE KERB LINE.

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ALL PLANTING TO BE MIN 600mm SETBACK FROM KERBS

LEGEND

MATURE TREE TRANSPLANT (15 L200)

200 LITRE TREE SUPPLY (15 L200)

100 LITRE TREE SUPPLY (15 L200)

SHRUB PLANTING REFER PLANTING SCHEDULE (9,10 L200)

LITTORAL PLANTING (9,10 L200)

PAVING TYPE 1: ALTERNATING PAVEMENT PATTERN
- 400 x 400 HONED URBANSTONE 924 (MID GREY)
- 400 x 400 HONED URBANSTONE 789 (CREAM)
- 400 x 400 HONED URBANSTONE 777 (DARK GREY) (8 L200)

MULCH ONLY

PAVING TYPE 2: PLAIN GREY CONCRETE PAVING (6 L200)

PAVING TYPE 2.1: MAINTENANCE ACCESS PATH WHERE 2.5M WIDE PATH TO BE REINFORCED EXPOSED AGGREGATE (4 L200)

PAVING TYPE 2.2: COLOURED CONCRETE WITH ROCK SALT PITTED TEXTURE (CCS COLOUR: LYCHEE) (4 L200)

SOFTFALL TO PLAYSPACE. REFER (7 L200)

PAVING TYPE 3: EMULSION STABILISED LIMESTONE. INSTALL CONCRETE EDGE WHERE GRAVEL ABUTS SHRUB BED OR GRASSED AREA. REFER (11 L200)

ROLL ON TURF

LIMESTONE ROCK PITCHING TO FLUME OUTLET TO DISSIPATE FLOWS (WORKS BY CIVIL)

BOULDER PLACEMENT. REFER (13 L200)

EXISTING LIGHT POLES

LIMESTONE BLOCK WALL. REFER (1,2 L200)

LIMESTONE BLOCK EDGE. REFER (12 L200)

CONCRETE EDGE. REFER (5 L200)

PARK SEAT. REFER (5 L201)

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DECORATIVE POLE INSTALLATIONS. REFER DETAIL (6 L201)

SCULPTURE INSTALLATION TO FUTURE DETAIL

REMOVEABLE BOLLARD TO BE PAINTED WHITE WITH RED REFLECTIVE STRIP AT TOP (14 L200)

EXTENT OF WORKS

1 IN 1 YEAR FLOOD LEVEL: 16.5

PROPOSED CONTOURS

No.	REVISION	BY	DATE
L	AS CONSTRUCTED	WG	040915
K	REVISED AS PER COUNCIL APPROVAL	WG	060715
J	VISUAL AMENDMENTS. ISSUED FOR CONSTRUCTION	SJ	190515
I	TREE PLANTING SCHEME REVISED	SJ	100415
H	REVISED PAVING, PLANTING & LEVELS	KW	010415
G	REVISED PAVING, SHRUB EXTENTS AND NUMBERS	SC	270215
F	REVISED EXTENT OF SHRUBS, LITTORAL, TURF	WG	171214
E	REVISED BASIN EXTENT/ ISSUE FOR APPROVAL	WG	161214
D	FOR TENDER	SJ	261114
C	FOR APPROVAL	SJ	251114
B	FOR APPROVAL	SJ	180914
A	FOR APPROVAL	RM	270814

GENERAL ARRANGEMENT, KEY & PLANTING PLAN 2 OF 2

Project
EDEN BEACH: LOT 9 JINDALEE REFLECTION BOULEVARD

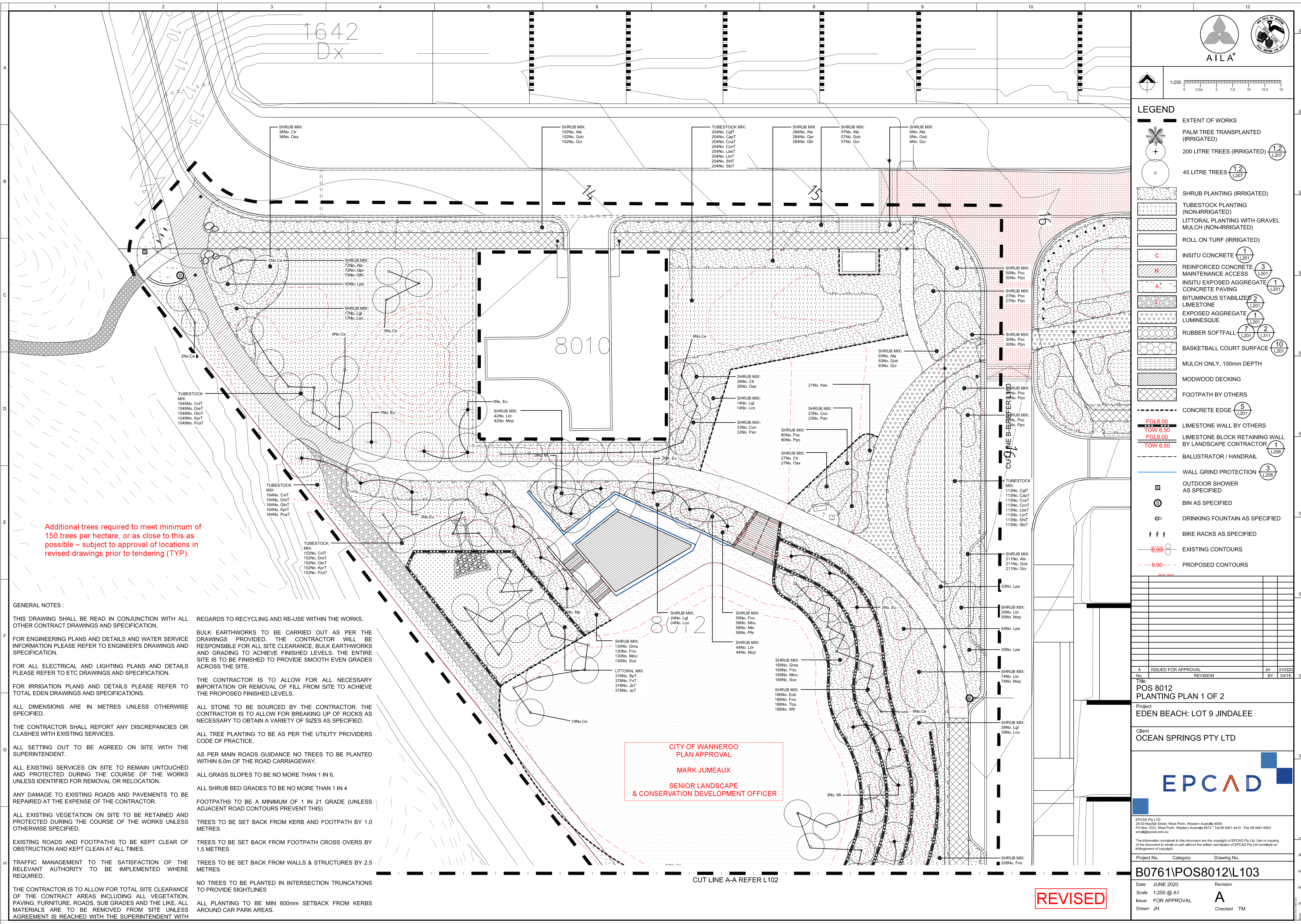
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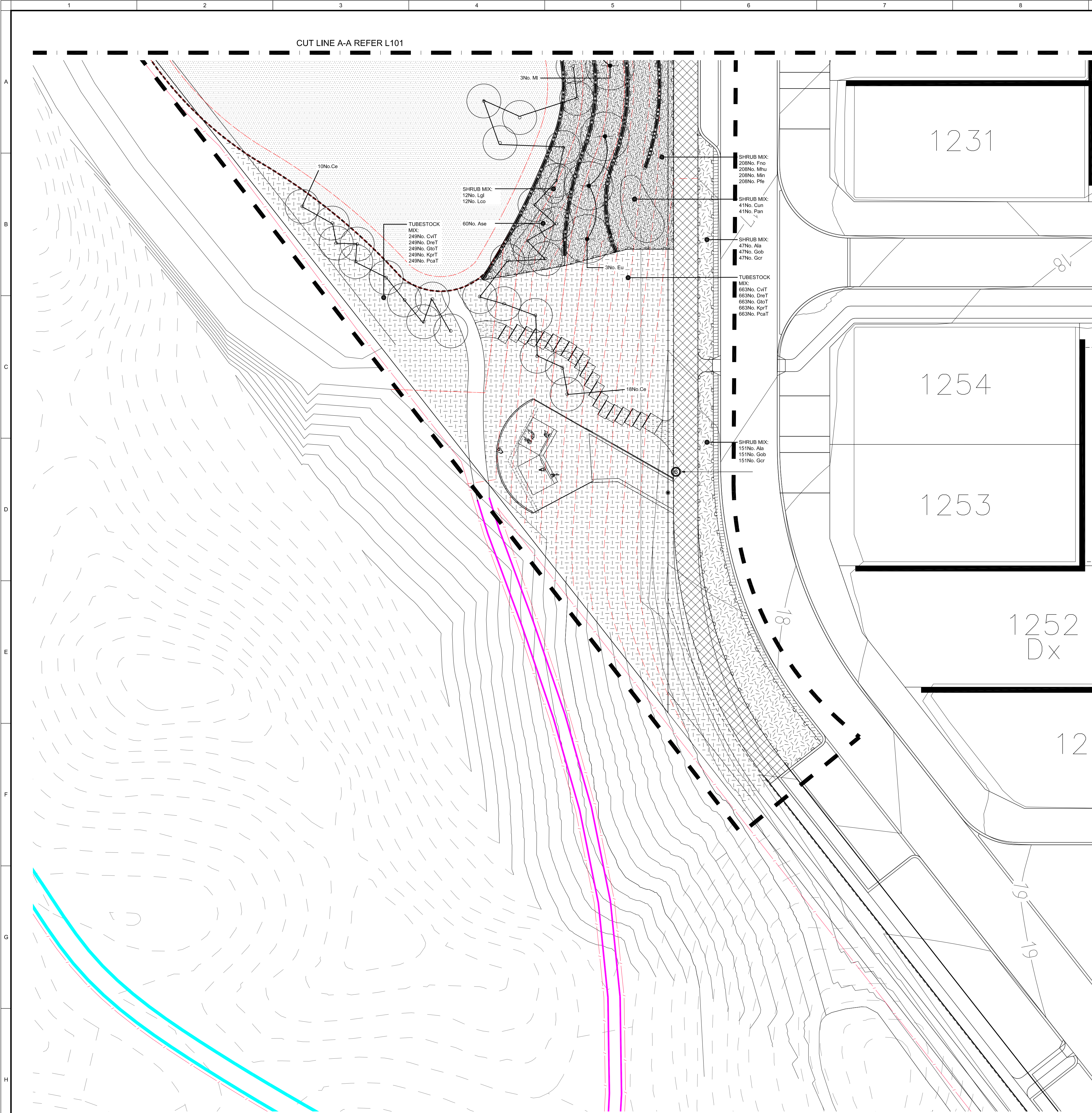
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Project No.	Category	Drawing No.
B0761/RBPOS/L102		
Date	NOVEMBER 2014	Revision
Scale	1:250@A1	L
Issue	AS CONSTRUCTED	Checked
Drawn	RM	





PLANT SCHEDULE		
TREES	SIZE	QTY
Eu Eucalyptus utilis	200L	16
Mi Melaleuca lanceolata	200L	6
Mp Melaleuca preissiana	200L	4
Ce Casuarina equisetifolia	45L	80

* INSTALL LINEAL ROOT BARRIER WHEN INSTALLING TREE ADJACENT TO PAVEMENT- **NOT APPROVED**
Tree root barrier/ nylex membrane is not approved.
Updates to be reflected in As Con drawings (TYP).

SHRUBS	SPACE	SIZE	QTY
Ala Acacia lasiocarpa 'Prostrate'	600mm	150mm	1024
Ase Adenanthos sericeus 'Compact'	600mm	150mm	81
Cun Chamelaudum undinatum 'Beach Ball' &/OR 'Delta'	600mm	150mm	97
Ctr Conospermum triplinervium	600mm	150mm	89
Eob Eutaxia obovata	600mm	150mm	186
Fno Ficinia nodosa	600mm	150mm	751
Gcr Grevillea crithmifolia 'Little Crith' OR 'Prostrate'	600mm	150mm	667
Gob Grevillea obtusifolia 'Ging Gin Gem'	600mm	150mm	667
Gpr Grevillea preissii 'Seaspray'	600mm	150mm	357
Gth Grevillea thelemanniana 'Gilt Dragon'	600mm	150mm	357
Gma Guichenotia macrantha 'Dwarf'	600mm	150mm	299
Lgl Lepidosperma gladiatum 'Gladiator'	600mm	150mm	106
Lbr Leucophyta brownii 'Silver Nugget'	600mm	150mm	190
Lpe Limonium perezii 'Sea Lavender'	600mm	150mm	162
Lco Lomandra confertifolia 'Little Con'	600mm	150mm	89
Mop Maireana oppositifolia	600mm	150mm	190
Mhu Melaleuca huegelii 'Rambler' OR 'Prostrate'	600mm	150mm	266
Minc Melaleuca incana 'Nana'	600mm	150mm	299
Min Myoporum insulare 'Coastal Carpet'	600mm	150mm	565
Oax Olearia axillaris 'Little Smokie' OR 'Mini'	600mm	150mm	89
Poc Patersonia occidentalis	600mm	150mm	230
Pan Pimelea angustifolia	600mm	150mm	97
Pfe Pimelea ferruginea 'Pink' &/OR 'Magenta Mist'	600mm	150mm	266
Ppo Poa poliformis 'Kingsdale'	600mm	150mm	230
Sca Scaevola calliptera	600mm	150mm	299
Tba Thryptomene baeckeacea 'Kalbarri Cascade'	600mm	150mm	186
Wfr Westringia fruticosa 'Low Horizon' &/OR 'Mund'	600mm	150mm	186

TUBESTOCK MIX @ 450mm CENTRES		
CgIT Carpobrotus glaucescens 'Aussie Rambler'	tubestock	317
CvIT Carpobrotus virescens	tubestock	2277
CapT Chrysocephalum apiculatum 'Silver Sunburst'	tubestock	317
CcaT Conostylis candidans	tubestock	317
CcnT Convolvulus cneorum	tubestock	317
DreT Dianella revoluta	tubestock	2277
GioT Gompholobium tomentosum	tubestock	2277
KprT Kennedia prostrata	tubestock	2277
LbrT Leucophyta brownii 'Silver Nugget'	tubestock	317
LbeT Lotus berthelotii	tubestock	317
ShIT Spinifex hirsutus	tubestock	317
SloT Spinifex longifolius	tubestock	317
PcaT Phyllanthus calycinus	tubestock	2277

LITTORAL TUBESTOCK MIX @ 750mm CENTRES		
BpT Baumea preissii	viotube	378
FnT Ficinia nodosa	viotube	378
JkT Juncus kraussii	viotube	378
JpT Juncus pallidus	viotube	378



Interface with the Foreshore Reserve to be clarified, i.e. conservation fence to align with POS lot boundary – to be reflected in the As Con drawings (TYP).

Planting edge adjacent the Foreshore Reserve should be with species that are non-invasive and low fire threat – subject to approval of revised drawings prior to tendering. To be clearly delineated as these proposed as groundcovers will need to be maintained in perpetuity (TYP).

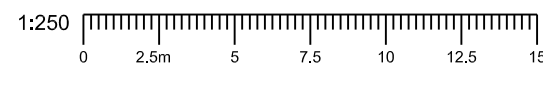

Vegetation will need to be pruned 30cm off the fence lines and maintained from accelerated aging of the asset (TYP).

MARK JUMEAUX
SENIOR LANDSCAPE
& CONSERVATION DEVELOPMENT OFFICER

REVISED



1:250



LEGEND

EXTENT OF WORKS

PALM TREE TRANSPLANTED (IRRIGATED)

200 LITRE TREES (IRRIGATED) 1.2 L201

45 LITRE TREES 1.2 L207

SHRUB PLANTING (IRRIGATED)

TUBESTOCK PLANTING (NON-IRRIGATED)

LITTORAL PLANTING WITH GRAVEL MULCH (NON-IRRIGATED)

ROLL ON TURF (IRRIGATED)

INSITU CONCRETE 1 L201

REINFORCED CONCRETE MAINTENANCE ACCESS 3 L201

INSITU EXPOSED AGGREGATE CONCRETE PAVING 1 L201

BITUMINOUS STABILIZED LIMESTONE 2 L201

EXPOSED AGGREGATE LUMINESQUE 1 L201

RUBBER SOFTFALL 2 L201

BASKETBALL COURT SURFACE 10 L201

MULCH ONLY, 100mm DEPTH

MODWOOD DECKING

FOOTPATH BY OTHERS

CONCRETE EDGE 5 L201

LIMESTONE WALL BY OTHERS

LIMESTONE BLOCK RETAINING WALL BY LANDSCAPE CONTRACTOR 1 L206

BALUSTRATOR / HANDRAIL

WALL GRIND PROTECTION 3 L206

OUTDOOR SHOWER AS SPECIFIED

BIN AS SPECIFIED

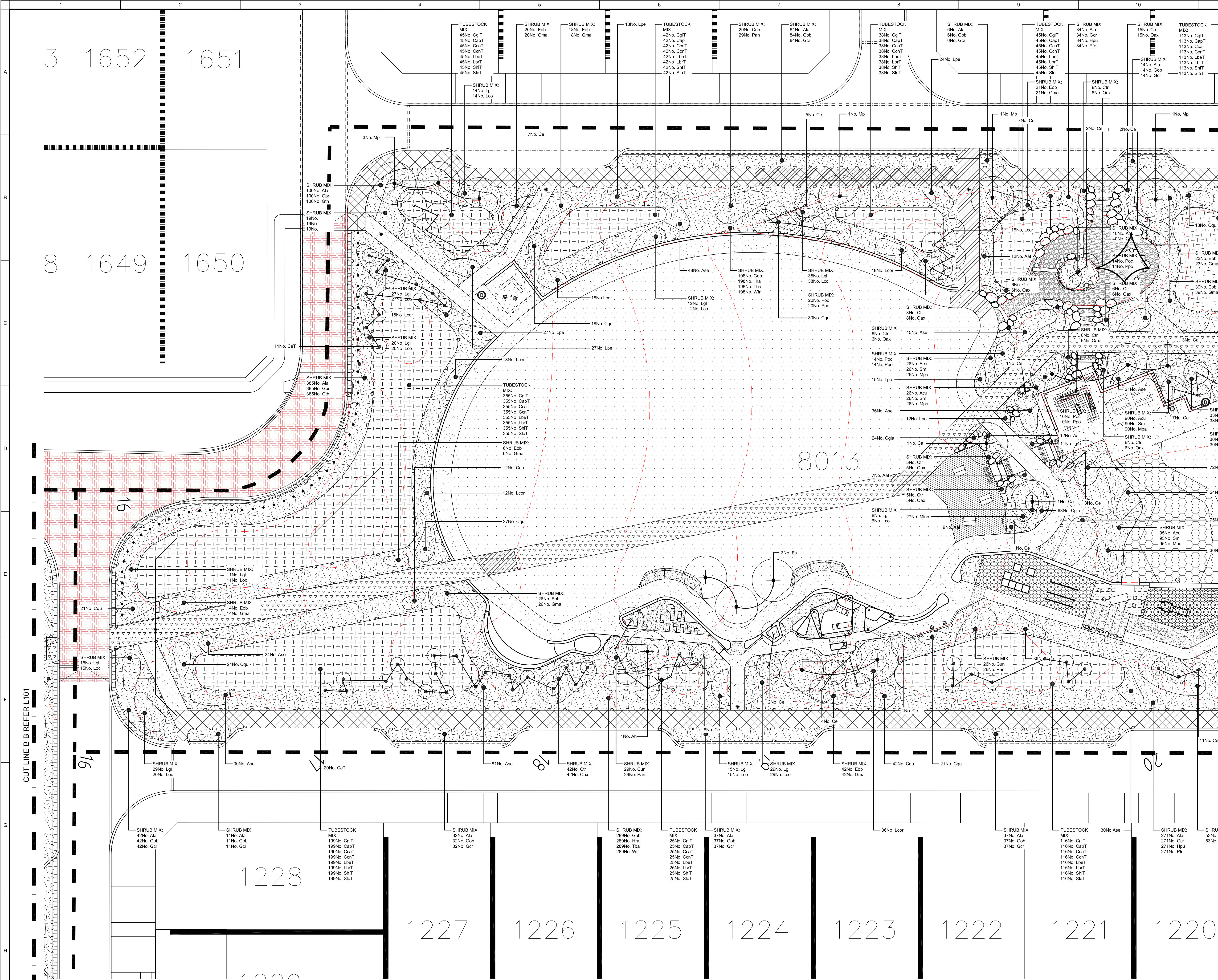
DRINKING FOUNTAIN AS SPECIFIED



BIKE RACKS AS SPECIFIED

EXISTING CONTOURS

PROPOSED CONTOURS

No.	ISSUED FOR APPROVAL	REVISION	JH	310320
Title		BY		DATE
POS 8012				
PLANTING PLAN 2 OF 2				
Project				
EDEN BEACH: LOT 9 JINDALEE				
Client				
OCEAN SPRINGS PTY LTD				
EPCAD				
EPCAD Pty Ltd 28-30 Mayfair Street, West Perth, Western Australia 6005 PO Box 1233, West Perth, Western Australia 6012 * Tel 08 9481 4410 Fax 08 9481 6903 email@epcad.com.au				
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Project No.		Category		Drawing No.
B0761\POS8012		L		105
Date		JUNE 2020		Revision
Scale		1:250 @ A1		A
Issue		FOR APPROVAL		Checked TM
Drawn JH				





1:250


0 2.5m 5 7.5 10 12.5 15

LEGEND

EXTENT OF WORKS

- PALM TREE TRANSPLANTED (IRRIGATED)
- 200 LITRE TREES (IRRIGATED)
- TUBESTOCK TREES (NON-IRRIGATED)
- SHRUB PLANTING (IRRIGATED)
- TUBESTOCK PLANTING (NON-IRRIGATED)
- LITTORAL PLANTING WITH GRAVEL MULCH (NON-IRRIGATED)
- ROLL ON TURF (IRRIGATED)
- INSITU CONCRETE
- REINFORCED CONCRETE
- INSITU EXPOSED AGGREGATE CONCRETE PAVING
- COMPACTED CRUSHED LIMESTONE SURFACE
- EXPOSED AGGREGATE LUMINESQUE
- RUBBER SOFTFALL
- BASKETBALL COURT SURFACE
- MULCH ONLY, 100mm DEPTH
- MODWOOD DECKING
- FOOTPATH BY OTHERS
- CONCRETE EDGE
- LIMESTONE WALL BY OTHERS
- LIMESTONE BLOCK RETAINING WALL BY LANDSCAPE CONTRACTOR
- BALUSTRATOR / HANDRAIL
- OUTDOOR SHOWER AS SPECIFIED
- BIN AS SPECIFIED
- DRINKING FOUNTAIN AS SPECIFIED
- BIKE RACKS AS SPECIFIED
- EXISTING CONTOURS
- PROPOSED CONTOURS
- EXISTING LEVEL
- PROPOSED LEVEL

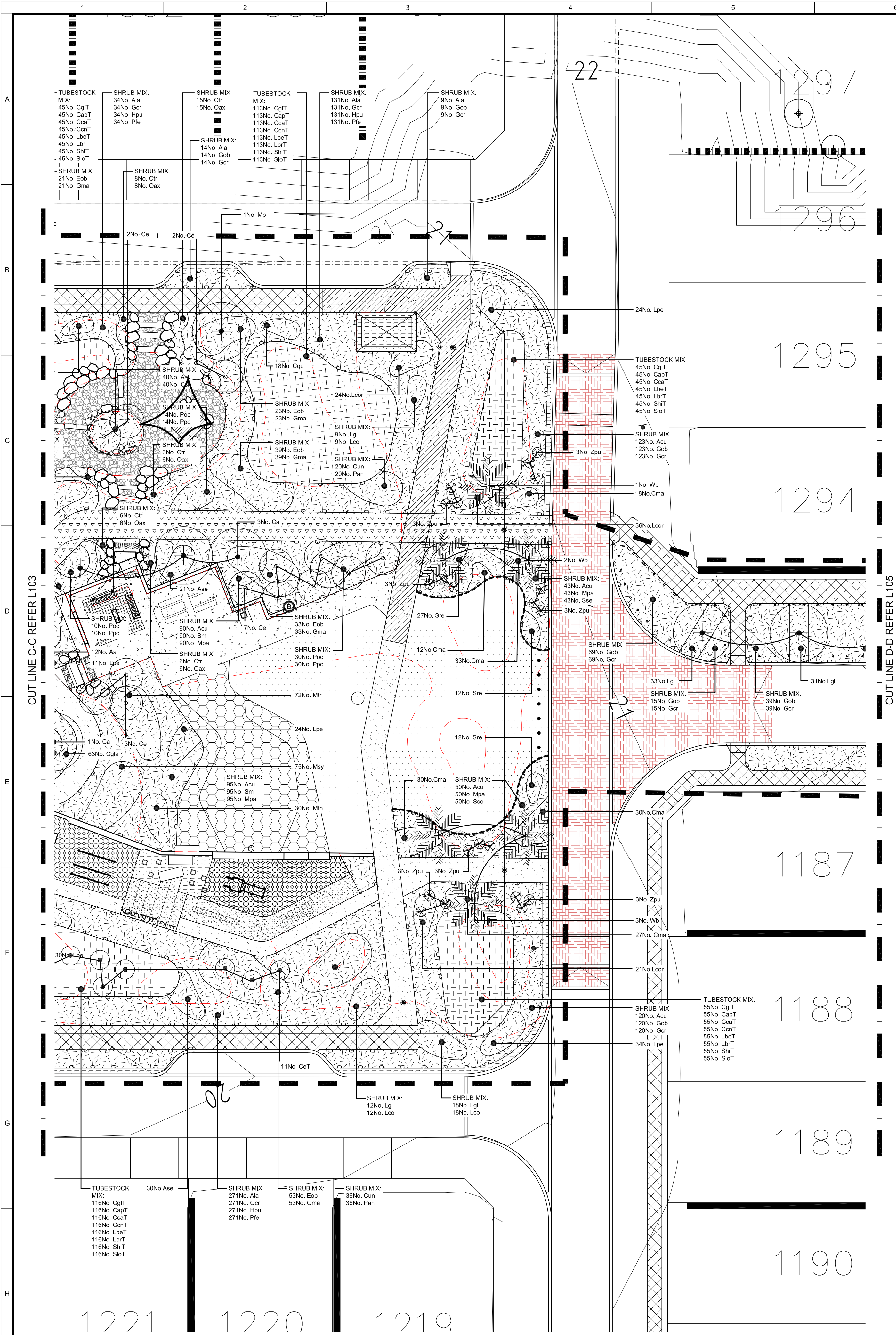
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No.	REVISION	BY	DATE
Title			
POS 8013			
PLANTING PLAN 1 OF 2			
Project			
EDEN BEACH: LOT 9 JINDALEE			
Client			
OCEAN SPRINGS PTY LTD			



EPCAD Pty Ltd
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Project No.	Category	Drawing No.
B0761POS8012-8013L104		
Date	JUNE 2020	Revision
Scale	1:250 @ A1	A
Issue	FOR APPROVAL	Checked TM
Drawn	JH	



PLANT SCHEDULE

TREES	SIZE	QTY
Ah	Araucaria heterophylla	200L 16
Ca	Cupaniopsis anacardioides 'Tuckeroo'	200L 5
Eu	Eucalyptus utilis	200L 19
MI	Melaleuca lanceolata	200L 6
Mp	Melaleuca preissiana	200L 10
Wb	Wodyetia bifurcata 'Foxtail Palm'	500L 6
Ce	Casuarina equisetifolia	45L 50
CeT	Casuarina equisetifolia	tubestock 42

* INSTALL LINEAL ROOT BARRIER WHEN INSTALLING TREE ADJACENT TO PAVEMENT

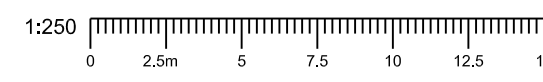
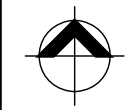
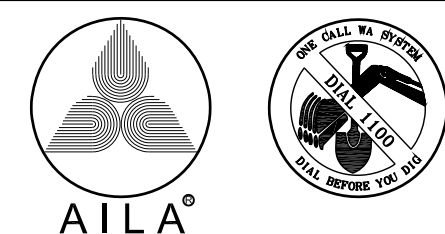
SHRUBS	SPACE	SIZE	QTY
Ala	Acacia lasiocarpa 'Prostrate'	600mm 150mm	1193
Acu	Adenanthos cuneatus 'Coral Drift'	600mm 150mm	573
Ase	Adenanthos sericeus 'Compact'	600mm 150mm	315
Aal	Amelia alpine 'Pretty Petite'	600mm 150mm	60
Cqu	Calothamnus quadrifidus 'Emerald Carpet'	600mm 150mm	213
Cma	Carissa macrocarpa 'Green Carpet'	600mm 150mm	150
Cgla	Casuarina glauca 'Cousin It'	600mm 150mm	87
Cun	Chamaelaudum uncinatum 'Beach Ball' &/OR 'Della'	600mm 150mm	140
Ctr	Conospermum triplinervium	600mm 150mm	113
Cca	Conostylis candicans	600mm 150mm	787
Ccn	Convolvulus cneorum	600mm 150mm	807
Sm	Scaevola 'mauvee clusters'	600mm 150mm	237
Eob	Eutaxia obovata	600mm 150mm	295
Gcr	Grevillea crithmifolia 'Little Crith' OR 'Prostrate'	600mm 150mm	1738
Gob	Grevillea obtusifolia 'Ging Gin Gem'	600mm 150mm	1002
Gpr	Grevillea preissii 'Seaspray'	600mm 150mm	485
Gth	Grevillea thelemanniana 'Gilt Dragon'	600mm 150mm	485
Gma	Guichenotia macrantha 'Dwarf'	600mm 150mm	295
Hpu	Hemidoria pungens	600mm 150mm	436
Hra	Hibbertia racemosa	600mm 150mm	487
Lgl	Lepidosperma gladiatum 'Gladiator'	600mm 150mm	779
Lcor	Leucospermum cordifolium	600mm 150mm	216
Lpe	Limonium perezii 'Sea Lavender'	600mm 150mm	246
Loo	Lomandra confertifolia 'Little Con'	600mm 150mm	200
Lminc	Melaleuca incana 'Nana'	600mm 150mm	27
Mnsy	Melaleuca systema 'Prostrate'	600mm 150mm	75
Mth	Melaleuca thymoides	600mm 150mm	30
Mtr	Melaleuca trichophylla 'Prostrate'	600mm 150mm	72
Mpa	Myoporum parvifolium 'Purpurea'	600mm 150mm	330
Oax	Olearia axillaris 'Little Smokie' OR 'Mini'	600mm 150mm	113
Pan	Patersonia occidentalis	600mm 150mm	88
Pfo	Pimelea angustifolia	600mm 150mm	140
Pfe	Pimelea ferruginea 'Pink' &/OR 'Magenta Mist'	600mm 150mm	436
Ppo	Poa poliformis 'Kingsdale'	600mm 150mm	68
Sse	Senecio serpens 'Blue Chalk-Sticks'	600mm 150mm	93
Sre	Strelitzia reginae 'Dwarf'	600mm 150mm	51
Tba	Thryptomene baeckeacea 'Kalbarri Cascade'	600mm 150mm	487
Wfr	Westringia fruticosa 'Low Horizon' &/OR 'Mund'	600mm 150mm	487
Zpu	Zamia pumila	600mm 15L	21

TUBESTOCK MIX @ 450mm CENTRES

CgIT	Carpobrotus glaucescens 'Aussie Rambler'	tubestock	1395
CvIT	Carpobrotus virescens	tubestock	2277
CapT	Chrysocephalum apiculatum 'Silver Sunburst'	tubestock	1395
CcaT	Conostylis candicans	tubestock	1395
CcnT	Convolvulus cneorum	tubestock	1395
DreT	Dianella revoluta	tubestock	2277
GtoT	Gompholobium tomentosum	tubestock	2277
KprT	Kennedia prostrata	tubestock	2277
LbT	Leucophyta brownii 'Silver Nugget'	tubestock	1395
LbeT	Lotus berthelotii	tubestock	1395
ShIT	Spinifex hirsutus	tubestock	1395
SlOT	Spinifex longifolius	tubestock	1395
PcaT	Phyllanthus calycinus	tubestock	2277

LITTORAL TUBESTOCK MIX @ 750mm CENTRES

BpT	Baumea preissii	virotube	378
FnT	Ficinia nodosa	virotube	378
JkT	Juncus kraussii	virotube	378
JpT	Juncus pallidus	virotube	378



LEGEND

- EXTENT OF WORKS
- PALM TREE TRANSPLANTED (IRRIGATED)
- 200 LITRE TREES (IRRIGATED) (1,2 L206)
- TUBESTOCK TREES (NON-IRRIGATED)
- SHRUB PLANTING (IRRIGATED)
- TUBESTOCK PLANTING (NON-IRRIGATED)
- LITTORAL PLANTING WITH GRAVEL MULCH (NON-IRRIGATED)
- ROLL ON TURF (IRRIGATED)
- INSITU CONCRETE (1 L201)
- REINFORCED CONCRETE MAINTENANCE ACCESS (3 L201)
- INSITU EXPOSED AGGREGATE CONCRETE PAVING (1 L201)
- COMPACTED CRUSHED LIMESTONE SURFACE (2 L201)
- EXPOSED AGGREGATE LUMINESQUE (1 L201)
- RUBBER SOFTFALL (7 L201, 2 L311)
- BASKETBALL COURT SURFACE (10 L201)
- MULCH ONLY, 100mm DEPTH
- MODWOOD DECKING
- FOOTPATH BY OTHERS
- CONCRETE EDGE (5 L201)
- LIMESTONE WALL BY OTHERS (FGL 8.00 TOW 8.50)
- LIMESTONE BLOCK RETAINING WALL BY LANDSCAPE CONTRACTOR (1 L201)
- BALUSTRATOR / HANDRAIL
- OUTDOOR SHOWER AS SPECIFIED
- BIN AS SPECIFIED
- DRINKING FOUNTAIN AS SPECIFIED
- BIKE RACKS AS SPECIFIED
- EXISTING CONTOURS (-8.00)
- PROPOSED CONTOURS (-8.00)
- EXISTING LEVEL (-20.50)
- PROPOSED LEVEL (-20.50)

A	ISSUED FOR APPROVAL	JH	310320
No.	REVISION	BY	DATE

POS 8013 PLANTING PLAN 2 OF 2

Project
EDEN BEACH: LOT 9 JINDALEE

Client
OCEAN SPRINGS PTY LTD



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28-30 Mayfair Street, West Perth, Western Australia 6005
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Project No. Category Drawing No.

B0761POS8012-8013L105

Date JUNE 2020 Revision

Scale 1:250 @ A1

Issue FOR APPROVAL

Drawn JH Checked TM

Appendix E Civil water reticulation plans (Cossill and Webley 2022)

CONTRACTOR'S RESPONSIBILITY

IT IS THE CONTRACTOR'S RESPONSIBILITY TO CO-ORDINATE THE INSTALLATION OF ALL SERVICES WITHIN THE SUBDIVISION. THE CONSULTANT SHOULD ENSURE THAT THERE IS NO CONFLICT BETWEEN THE POSITIONING OF FULLY PRE-LAID WATER SERVICES WITHIN THE LOT AND AND WESTERN POWER UNDERGROUND POWER CONNECTION PILLARS. THE SUPERINTENDENT SHOULD BE CONSULTED IF AMENDMENTS TO FULLY PRE-LAID SERVICES ARE REQUIRED.

SERVICES

- ALL WATER MAINS SHALL BE INSTALLED ON 2.1m ALIGNMENT EXCEPT AS OTHERWISE AGREED.
- FULLY PRE-LAID WATER SERVICES TO BE INSTALLED IN ACCORDANCE WITH W.C. WATER RETICULATION DESIGN STANDARD DS 63 VERSION 3 REVISION 14, SEPTEMBER 2018 AND READ IN CONJUNCTION WITH W.C. STANDARD ARRANGEMENT DRG.No.'s BD 62-8-15 AND BD62-8-24.
- WATER SERVICE LOCATIONS SHALL BE IN ACCORDANCE WITH THE GUIDELINES FOR POSITIONING CONTAINED IN DRG.No. BD62-8-14.
- WHERE POSSIBLE LOTS ARE ARRANGED IN PAIRS WITH A DUAL SERVICE PIPE ENTERING THE RIGHT HAND SIDE OF THE PAIR OF LOTS AND SPLITTING LEFT AND RIGHT TO SUPPLY EACH PAIR OF METERS.
- WHERE SHORT AND LONG SINGLE SERVICES ARE INDICATED THE SERVICE PIPE AND METER SHOULD, IF POSSIBLE, BE LOCATED AT THE LEFT HAND SIDE BOUNDARY OF LOTS.
- FOR A STRAIGHT ROAD RESERVE, SERVICE PIPES SHALL BE ALIGNED AT RIGHT ANGLES TO FRONT BOUNDARIES, RATHER THAN TO THE SUPPLY WATER MAINS.
- WHERE THERE IS A BEND IN THE ROAD RESERVE AT THE SIDE BOUNDARY, THE SERVICE PIPE SHALL BE POSITIONED PARALLEL TO THE LINE BISECTING THE ANGLE.
- FL AND FR (FULLY PRELAID LEFT & RIGHT) INDICATES THE SIDE OF THE LOT WHEN VIEWED FROM THE ROAD FRONTAGE WHICH IS SELECTED FOR ITS METER LOCATION.
- FULLY PRE-LAID WATER SERVICES INSTALLED IN STAIR LANDINGS ARE TO BE INSTALLED IN ACCORDANCE WITH STANDARD WATER CORPORATION DRG.No. BD62-2-9.

LEGEND

DESCRIPTION	SYMBOL
RETICULATION AREA BOUNDARY	---
PROPOSED MAINS	---
PROPOSED VALVE (No. = 3)	---
PROPOSED HYDRANT (No. = 4)	---
PROPOSED PRELAID LONG SERVICE	---
CHANGE IN PIPE SIZE	---
FLUSHING POINT (No. = 0)	---
TEMPORARY BLANK END AND FLUSHING POINT (No. = 4)	---
CONNECTION BY WATER CORPORATION (No. = 2)	---
EXISTING MAIN, HYDRANT AND VALVE	---
FUTURE MAIN, HYDRANT AND VALVE	---
FUTURE DISTRIBUTION MAINS	---
PROPOSED RETAINING WALL	---
EXISTING RETAINING WALL	---
FUTURE RETAINING WALL	---
DEFERRED SERVICE	'D'
SERVICE LAID IN THIS STAGE FOR RELEASE IN FUTURE STAGE	*
SERVICE LAID IN PREVIOUS STAGE TO BE RELEASED IN THIS STAGE	⊗
SERVICE UNDER RETAINING WALL	#1
SERVICE IN BELOW GROUND PIT (REFER WC DWG BD62-2-9)	#2

SERVICES	QTY (No.)
PRELAID SHORT DUAL	14
PRELAID LONG DUAL	4
PRELAID SHORT SINGLE	4
PRELAID LONG SINGLE	1
TOTAL	23
TOTAL NUMBER OF LOTS SERVED	41
NUMBER OF DEFERRED SERVICES	0
EXTENSION	QTY (m)
100 P-16	5317
250 P-16	2010

MSWA RETICULATION SUBMISSION

This plan is accepted as being in accordance with the endorsed Concept Plan: NM08-100-001-01B

Compliance with relevant design standards and manuals remains the responsibility of the Design Engineer.

No works are to commence on site until start-up meeting requirements have been made with the relevant Asset Inspector. Refer to the Developers' Manual for contact details.

Simon Ridgewell

Jan 05, 2022

Name

Date

NU23-103-001-01B

FILE: 122167444

PROJECT EDEN BEACH (LOT 9 JINDALEE) - STAGE 25

TITLE WATER RETICULATION PLAN

CLIENT OCEAN SPRINGS PTY LTD (BUTLER JV)

APPROVED BRAD MARSHALL

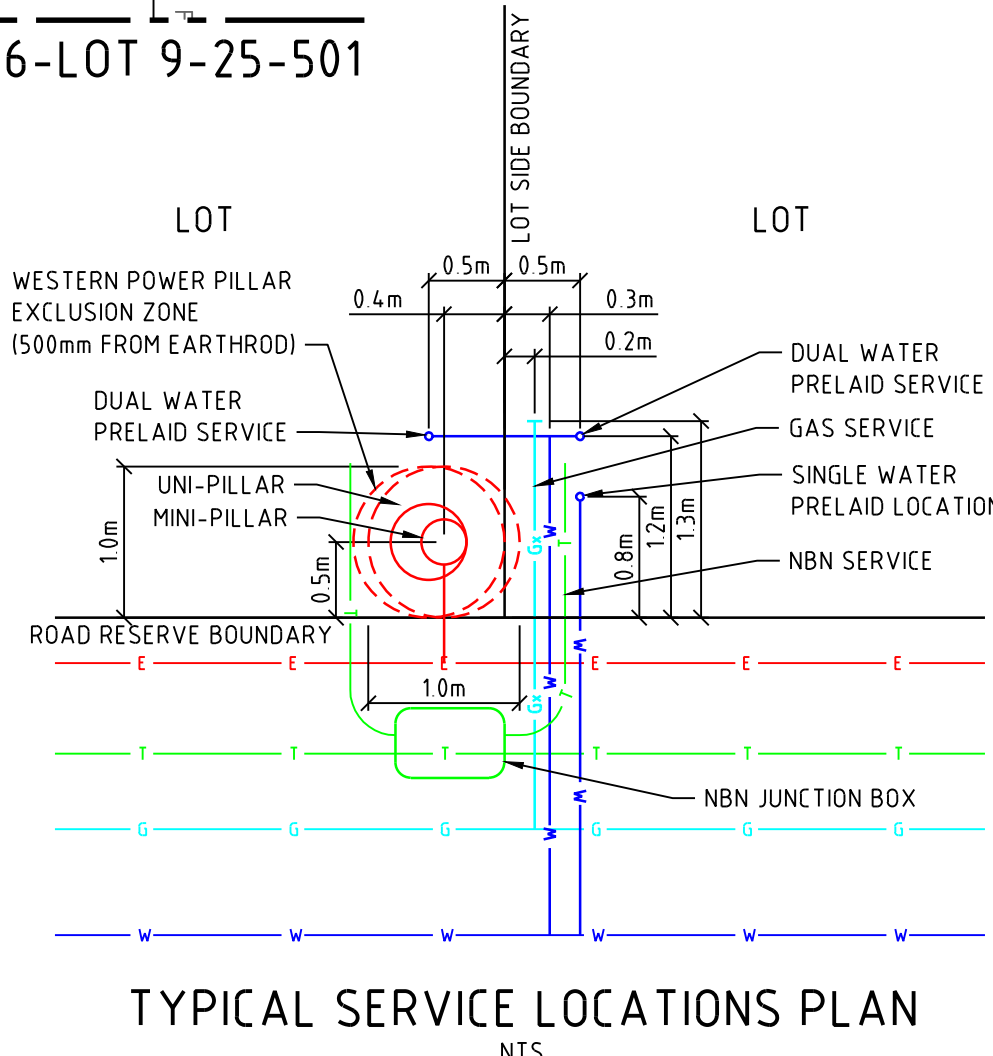
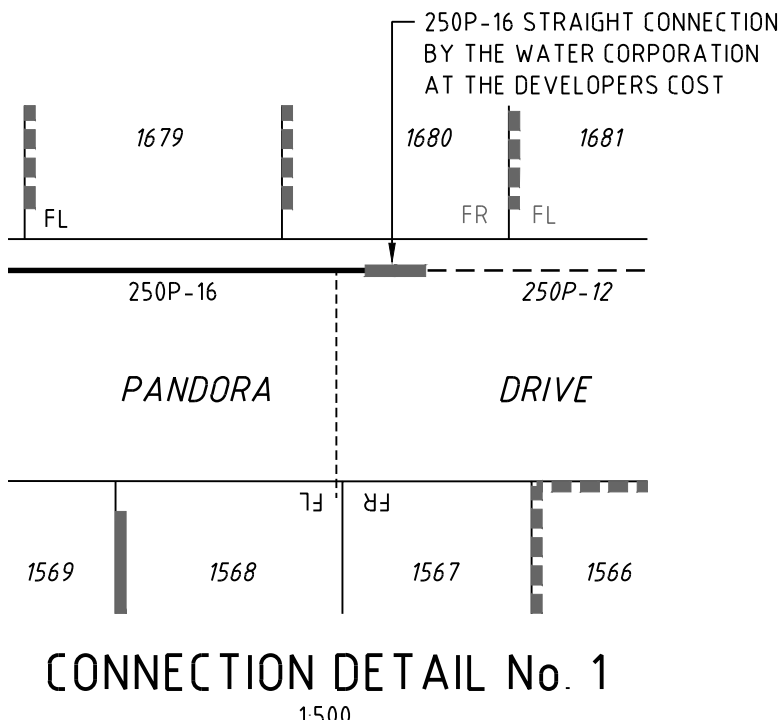
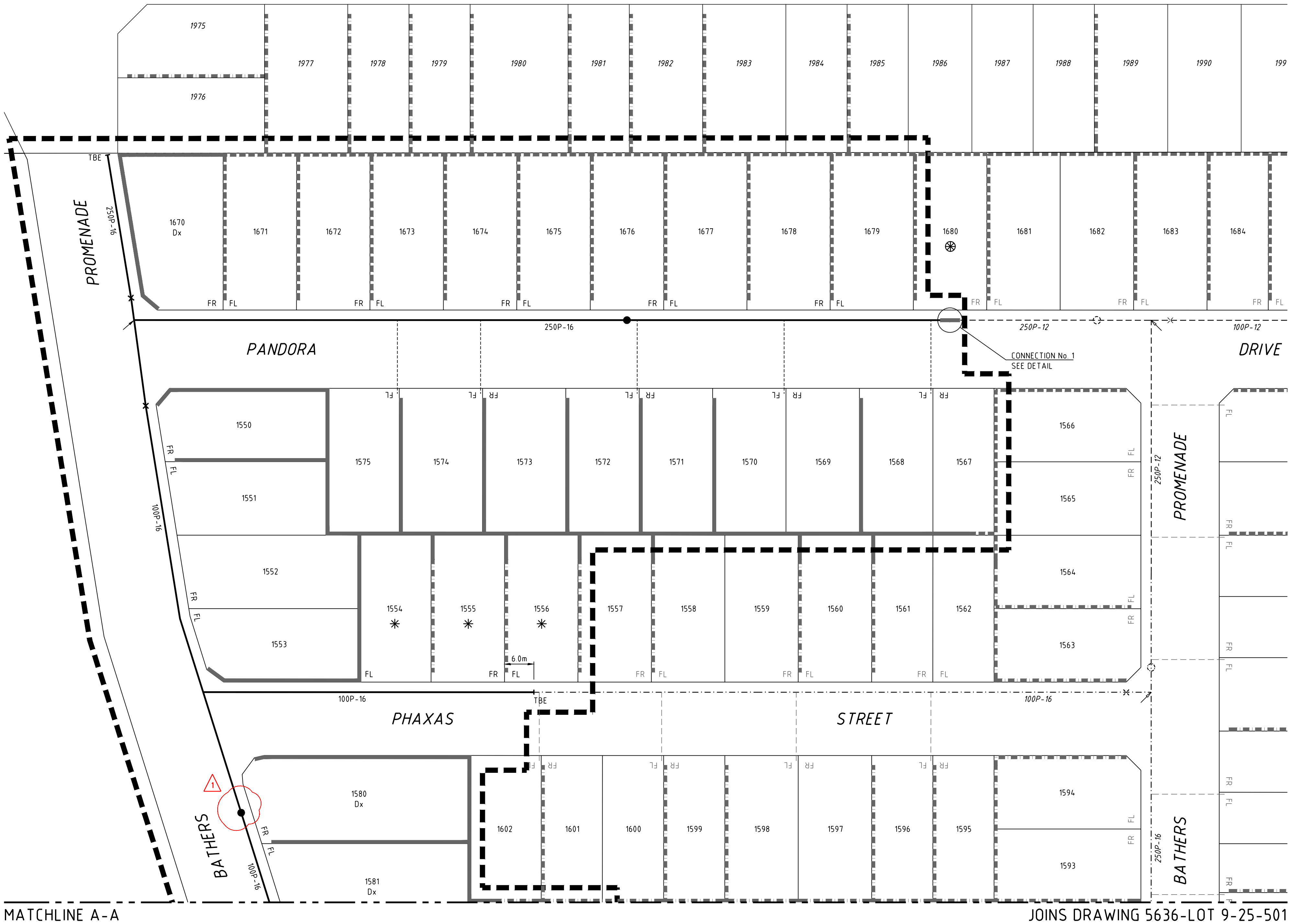
DESIGNED MS

WAPC No. 159574

DRAWING No. 5636-LOT 9-25-500

REVISION 1

ORIGINAL SIZE A1



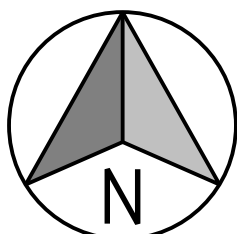
NOTICE TO CONTRACTOR

IT IS THE CONTRACTORS RESPONSIBILITY TO INVESTIGATE THE NATURE AND LOCATION OF ALL SERVICES WHICH MAY BE ENCOUNTERED AND TO CONSULT WITH THE RELEVANT SERVICE AUTHORITIES PRIOR TO COMMENCEMENT OF EXCAVATIONS. FAILURE TO DO SO OR TO TAKE DUE CARE SHALL NOT LIMIT THE CONTRACTORS LIABILITY FOR REPAIR OF ALL SERVICES DAMAGED BY HIM DURING CONSTRUCTION WORKS THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY FOR THE PROTECTION OF ALL EXISTING SERVICES.

WARNING TO CONTRACTOR UXO

THE SITE IS IDENTIFIED AS HAVING RISK OF UNEXPLODED ORDNANCE.

"NO EXCAVATION OR OTHER DISTURBANCE OF THE SOIL ON THIS SITE SHOULD BE CARRIED OUT WITHOUT FIRST OBTAINING CLEARANCE FROM THE UNEXPLODED ORDNANCE BRANCH OF THE W.A. POLICE DEPARTMENT."



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Cossill & Webley CONSULTING ENGINEERS
Mailing Address PO Box 680 Subiaco WA 6904
Street Address B12 (Level 2) 431 Roberts Road Subiaco WA 6008
T (08) 9422 5800 F (08) 9422 5801 E admin@cosweb.com.au

CLIENT OCEAN SPRINGS PTY LTD (BUTLER JV)
APPROVED BRAD MARSHALL
DESIGNED MS
SCALE 1:500

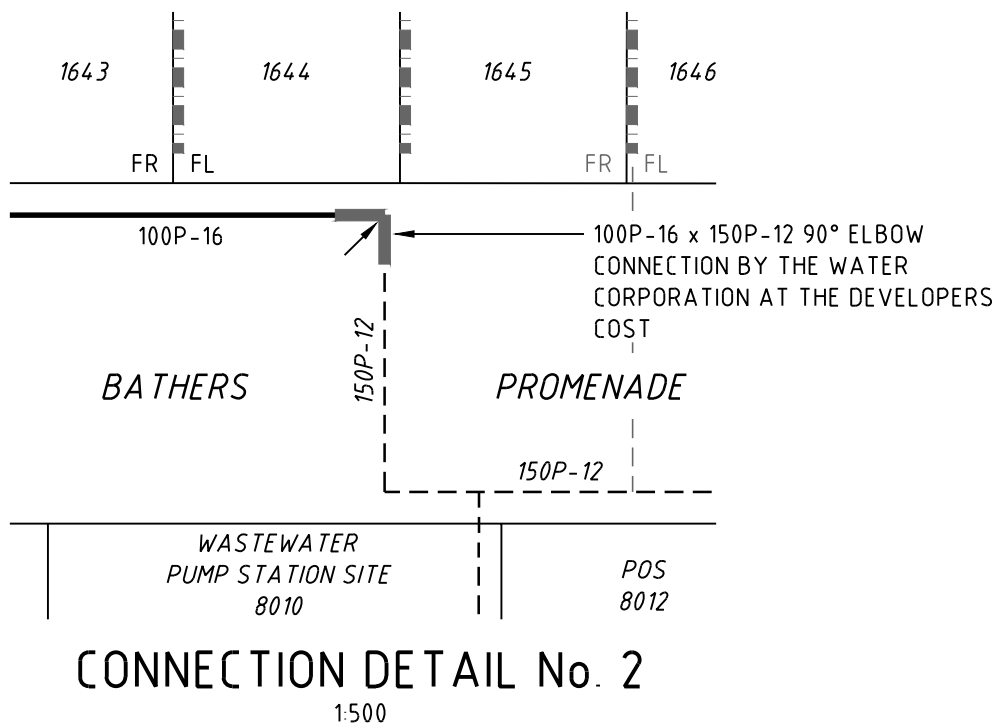
PROJECT EDEN BEACH (LOT 9 JINDALEE) - STAGE 25
TITLE WATER RETICULATION PLAN
WAPC No. 159574
DRAWING No. 5636-LOT 9-25-500
REVISION 1

MATCHLINE A-A

JOINS DRAWING 5636-LOT 9-25-500

NOTES

- 1 FOR WATER RETICULATION NOTES, LEGEND AND DETAILS REFER TO DRAWING 5636-LOT-9-25-500.



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MSWA RETICULATION SUBMISSION

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NM08-100-001-01B

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Simon Ridgewell

Jan 05, 2022

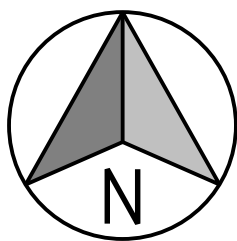
Name

Date

NU23-103-002-01B

FILE: 1221674.44

1	04.01.22	DMC	18		HYDRANT LOCATION ADJUSTED. ISSUED FOR CONSTRUCTION.
0	13.12.21	WBR	BRM	B. MARSHALL	ISSUED FOR FINAL APPROVAL / CONSTRUCTION
A	04.10.21	MS	BRM	B. MARSHALL	ISSUED FOR WATER CORPORATION APPROVAL
REV	DATE	DRN	CKD	APP	AMENDMENT



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CLIENT
OCEAN SPRINGS PTY LTD (BUTLER JV)

APPROVED
BRAD MARSHALL

DESIGNED
MS
SCALE
1:500

PROJECT
EDEN BEACH (LOT 9 JINDALEE) - STAGE 25

TITLE
WATER RETICULATION PLAN
SHEET 2

WAPC No.
159574

DRAWING No.
5636-LOT 9-25-501

REVISION
1

ORIGINAL SIZE
A1

CONTRACTOR'S RESPONSIBILITY

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SERVICES

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- WHERE POSSIBLE LOTS ARE ARRANGED IN PAIRS WITH A DUAL SERVICE PIPE ENTERING THE RIGHT HAND SIDE OF THE PAIR OF LOTS AND SPLITTING LEFT AND RIGHT TO SUPPLY EACH PAIR OF METERS.
- WHERE SHORT AND LONG SINGLE SERVICES ARE INDICATED THE SERVICE PIPE AND METER SHOULD, IF POSSIBLE, BE LOCATED AT THE LEFT HAND SIDE BOUNDARY OF LOTS.
- FOR A STRAIGHT ROAD RESERVE, SERVICE PIPES SHALL BE ALIGNED AT RIGHT ANGLES TO FRONT BOUNDARIES, RATHER THAN TO THE SUPPLY WATER MAINS.
- WHERE THERE IS A BEND IN THE ROAD RESERVE AT THE SIDE BOUNDARY, THE SERVICE PIPE SHALL BE POSITIONED PARALLEL TO THE LINE BISECTING THE ANGLE.
- FL AND FR (FULLY PRELAID LEFT & RIGHT) INDICATES THE SIDE OF THE LOT WHEN VIEWED FROM THE ROAD FRONTAGE WHICH IS SELECTED FOR ITS METER LOCATION.
- FULLY PRE-LAID WATER SERVICES INSTALLED IN STAIR LANDINGS ARE TO BE INSTALLED IN ACCORDANCE WITH STANDARD WATER CORPORATION DRG No. BD62-2-9.

LEGEND

DESCRIPTION	SYMBOL
RETICULATION AREA BOUNDARY	— — — — —
PROPOSED MAINS	— — — — —
PROPOSED VALVE (No. = 1)	— — — — —
PROPOSED HYDRANT (No. = 1)	— — — — —
PROPOSED PRELAID LONG SERVICE	— — — — —
CHANGE IN PIPE SIZE	— — — — —
FLUSHING POINT (No. = 0)	— — — — —
TEMPORARY BLANK END AND FLUSHING POINT (No. = 0)	— — — — —
CONNECTION BY WATER CORPORATION (No. = 5)	— — — — —
EXISTING MAIN, HYDRANT AND VALVE	— — — — —
FUTURE MAIN, HYDRANT AND VALVE	— — — — —
FUTURE DISTRIBUTION MAINS	— — — — —
PROPOSED RETAINING WALL	— — — — —
EXISTING RETAINING WALL	— — — — —
FUTURE RETAINING WALL	— — — — —
DEFERRED SERVICE	'D'
SERVICE LAID IN THIS STAGE FOR RELEASE IN FUTURE STAGE	*
SERVICE LAID IN PREVIOUS STAGE TO BE RELEASED IN THIS STAGE (20)	⊗
SERVICE UNDER RETAINING WALL	#1
SERVICE IN BELOW GROUND PIT (REFER WC DWG BD62-2-9)	#2

SERVICES	QTY (No.)
PRELAID SHORT DUAL	8
PRELAID LONG DUAL	10
PRELAID SHORT SINGLE	1
PRELAID LONG SINGLE	2
TOTAL	21
TOTAL NUMBER OF LOTS SERVED	59
NUMBER OF DEFERRED SERVICES	2
EXTENSION	QTY (m)
100 P-16	218.6
250 P-16	82.6

MSWA RETICULATION SUBMISSION

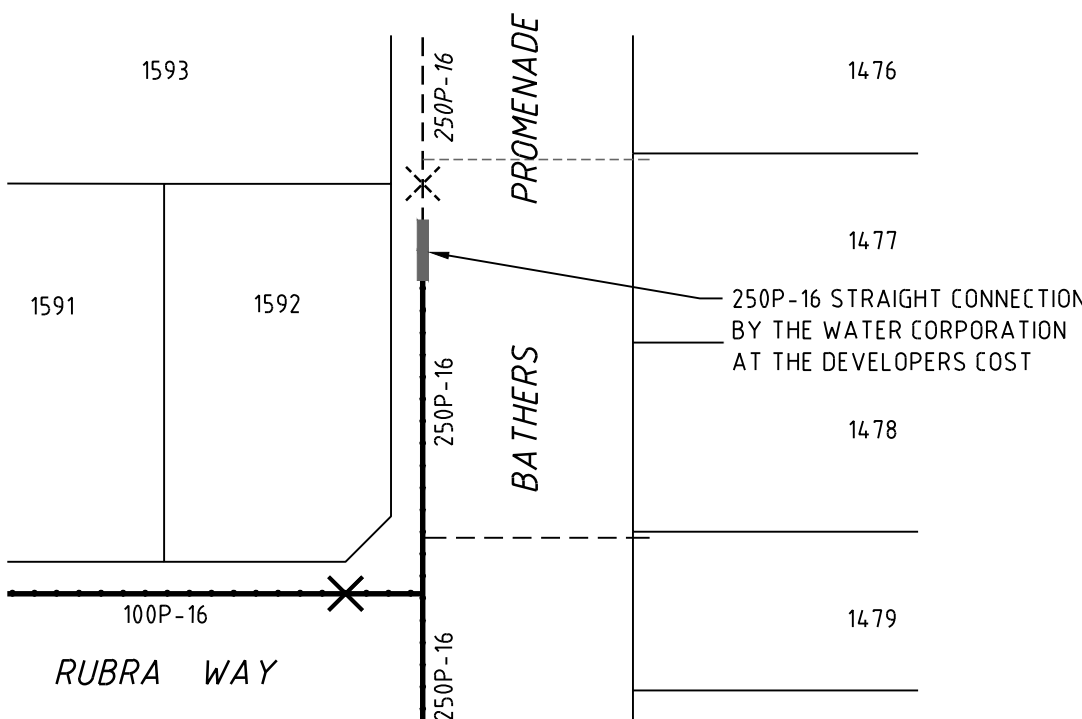
This plan is accepted as being in accordance with the endorsed Concept Plan: NM08-100-001-01A

Compliance with relevant design standards and manuals remains the responsibility of the Design Engineer.

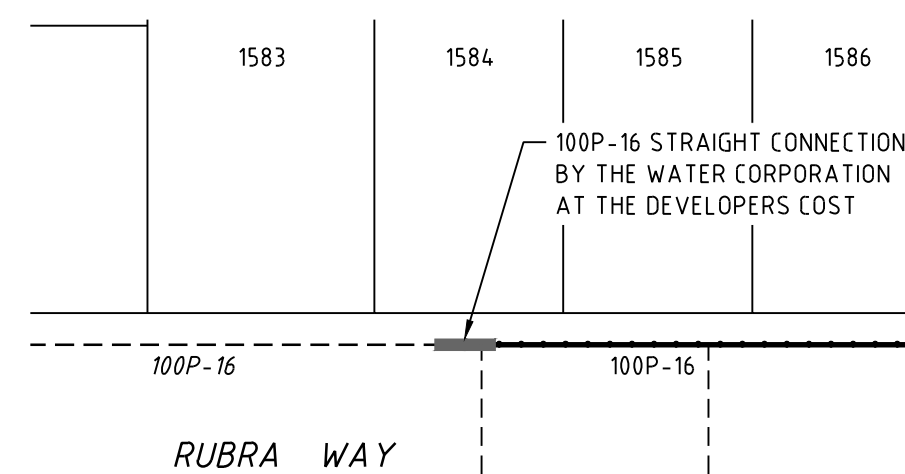
No works are to commence on site until start-up meeting requirements have been made with the relevant Asset Inspector. Refer to the Developers' Manual for contact details.

NY11-103-001-01A

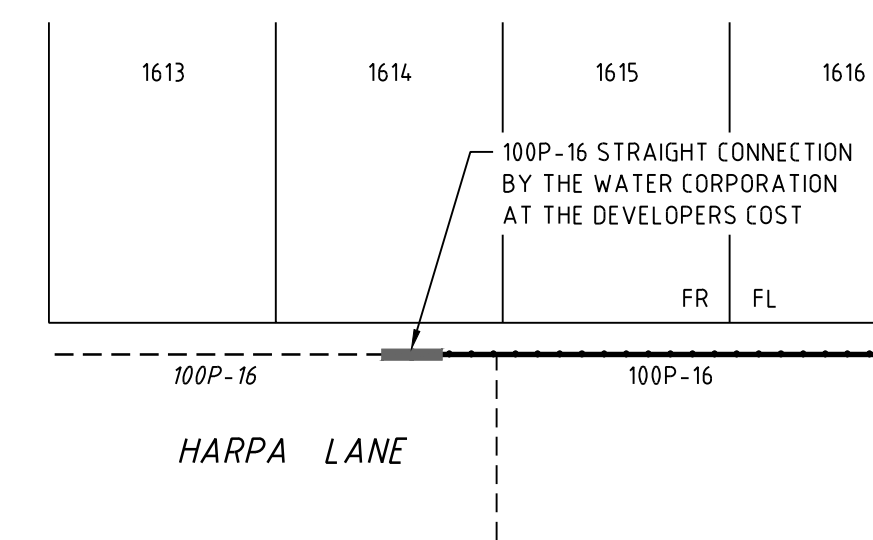
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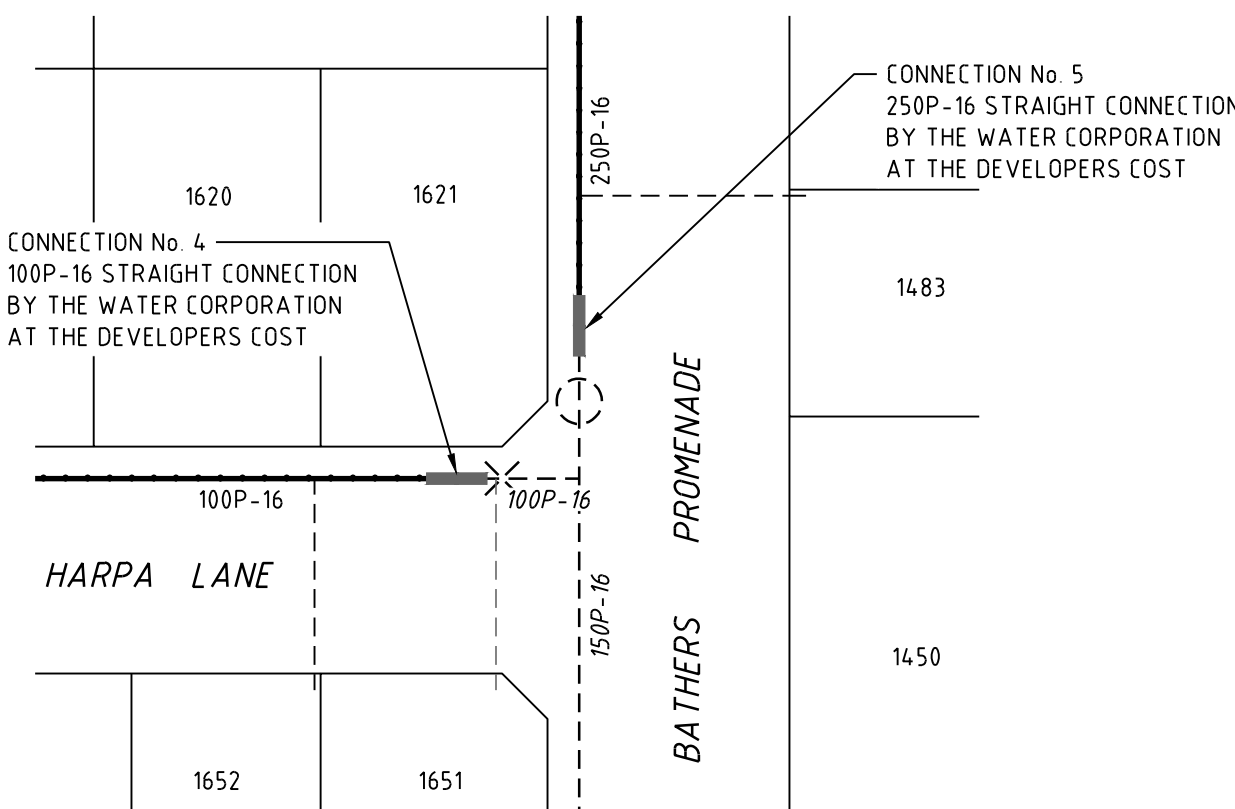
CONNECTION DETAIL No. 1



CONNECTION DETAIL No. 2



CONNECTION DETAIL No. 3



CONNECTION DETAIL No. 4 AND 5

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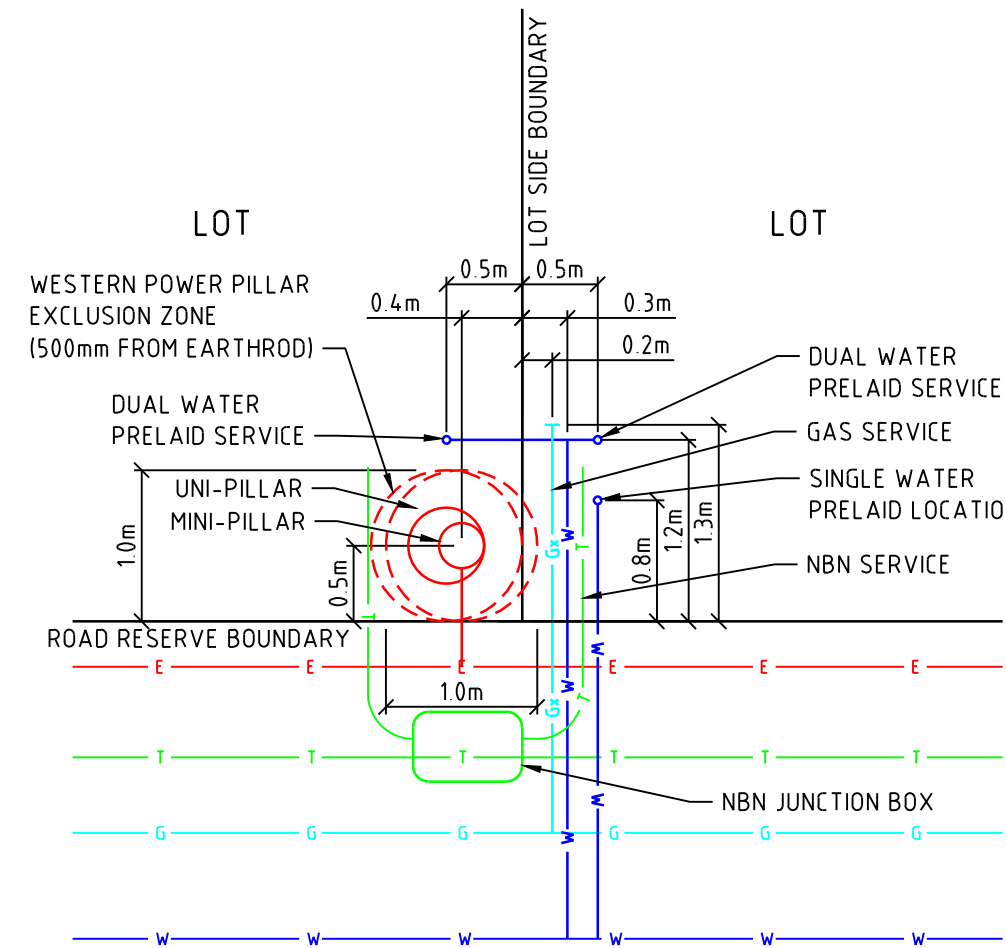
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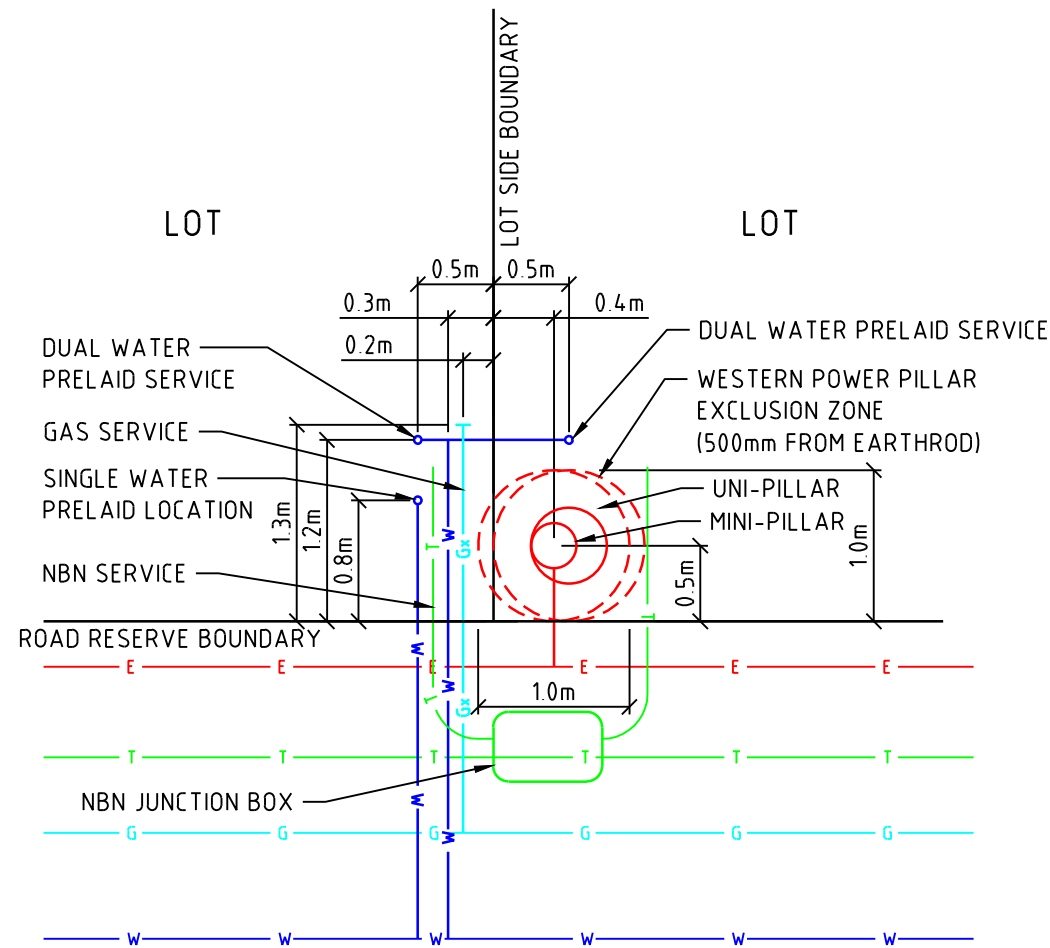
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TYPICAL SERVICE LOCATIONS PLAN

NTS



TYPICAL ALTERNATE SERVICE LOCATIONS PLAN

NTS

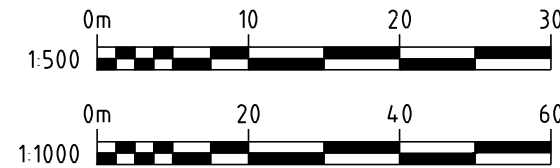
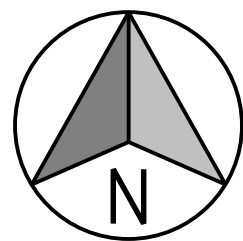
NOTICE TO CONTRACTOR

IT IS THE CONTRACTOR'S RESPONSIBILITY TO INVESTIGATE THE NATURE AND LOCATION OF ALL SERVICES WHICH MAY BE ENCOUNTERED AND TO CONSULT WITH THE RELEVANT SERVICE AUTHORITIES PRIOR TO COMMENCEMENT OF EXCAVATIONS. FAILURE TO DO SO OR TO TAKE DUE CARE SHALL NOT LIMIT THE CONTRACTOR'S LIABILITY FOR REPAIR OF ALL SERVICES DAMAGED BY HIM DURING CONSTRUCTION WORKS. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY FOR THE PROTECTION OF ALL EXISTING SERVICES.

WARNING TO CONTRACTOR UXO

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This plan is not to be used for construction unless issued as revision 0 or higher.

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T (08) 9422 5800 F (08) 9422 5801 E admin@cosweb.com.au

CLIENT
OCEAN SPRINGS PTY LTD (BUTLER JV)

APPROVED 19.07.22
DESIGNED MS
SCALE 1:500 1:1000

PROJECT
EDEN BEACH (LOT 9 JINDALEE) - STAGE 29

TITLE
WATER RETICULATION PLAN

WAPC No.
157558

DRAWING No.
5636-L0T 9-29-500

REVISION
A

ORIGINAL SIZE
A1

LEGEND

DESCRIPTION	SYMBOL
RETICULATION AREA BOUNDARY	---
PROPOSED MAINS	---
PROPOSED VALVE (No = 2)	---
PROPOSED HYDRANT (No = 2)	---
PROPOSED PRELAI LONG SERVICE	---
CHANGE IN PIPE SIZE	---
FLUSHING POINT (No = NIL)	FP
TEMPORARY BLANK END AND FLUSHING POINT (No = 0)	TBE
CONNECTION BY WATER CORPORATION (No = 4)	---
EXISTING MAIN, HYDRANT AND VALVE	---
FUTURE MAIN, HYDRANT AND VALVE	---
FUTURE DISTRIBUTION MAINS	wt
PROPOSED RETAINING WALL	---
EXISTING RETAINING WALL	---
FUTURE RETAINING WALL	---
DEFERRED SERVICE	'D'
SERVICE LAID IN THIS STAGE FOR RELEASE IN FUTURE STAGE	*
SERVICE LAID IN PREVIOUS STAGE TO BE RELEASED IN THIS STAGE	⊗
SERVICE UNDER RETAINING WALL	#1
SERVICE IN BELOW GROUND PIT (REFER WC DWG BD62-2-9)	#2
ALTERNATE SERVICE LOCATION (REFER DETAIL THIS PLAN)	#3

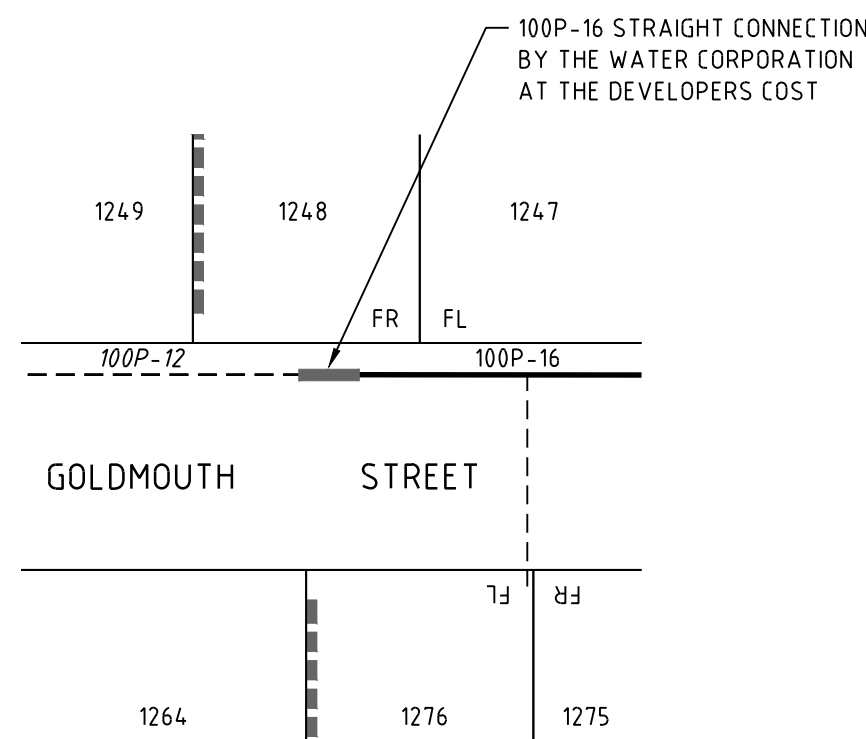
CONTRACTOR'S RESPONSIBILITY

IT IS THE CONTRACTOR'S RESPONSIBILITY TO CO-ORDINATE THE INSTALLATION OF ALL SERVICES WITHIN THE SUBDIVISION. THE CONSULTANT SHOULD ENSURE THAT THERE IS NO CONFLICT BETWEEN THE POSITIONING OF FULLY PRE-LAI WATER SERVICES WITHIN THE LOT AND AND WESTERN POWER UNDERGROUND POWER CONNECTION PILLARS. THE SUPERINTENDENT SHOULD BE CONSULTED IF AMENDMENTS TO FULLY PRE-LAI SERVICES ARE REQUIRED.

SERVICES

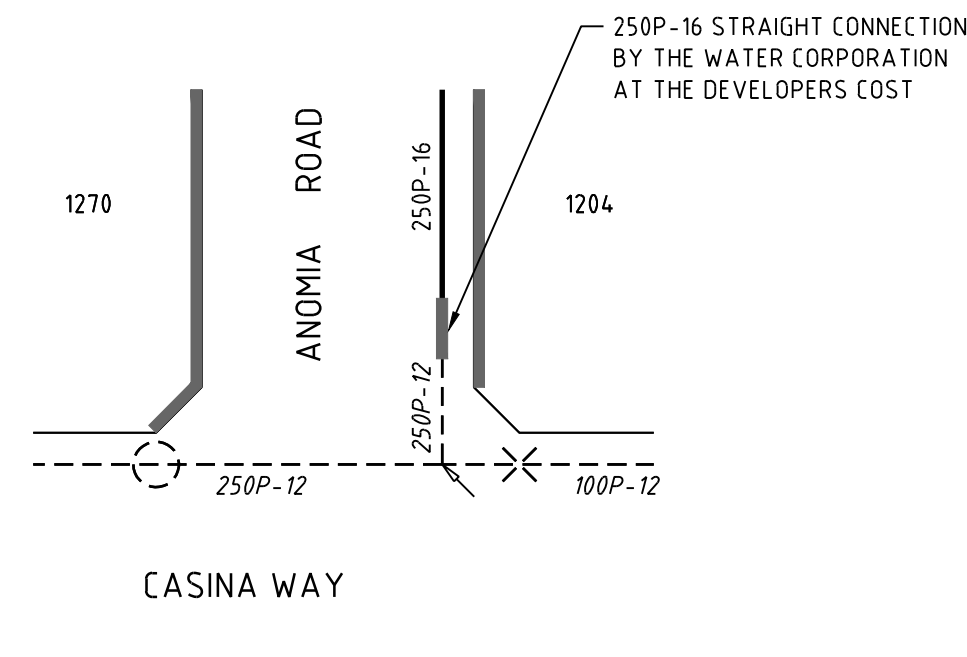
- ALL WATER MAINS SHALL BE INSTALLED ON 2.1m ALIGNMENT EXCEPT AS OTHERWISE AGREED.
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- FULLY PRE-LAI WATER SERVICES INSTALLED IN STAIR LANDINGS ARE TO BE INSTALLED IN ACCORDANCE WITH STANDARD WATER CORPORATION DRG No. BD62-2-9.

SERVICES	QTY (No.)
PRELAI SHORT DUAL	10
PRELAI LONG DUAL	10
PRELAI SHORT SINGLE	1
PRELAI LONG SINGLE	0
TOTAL	21
TOTAL NUMBER OF LOTS SERVED	4.1
NUMBER OF DEFERRED SERVICES	0
EXTENSION	QTY (m)
100 P-16	243.3
250 P-16	169.6



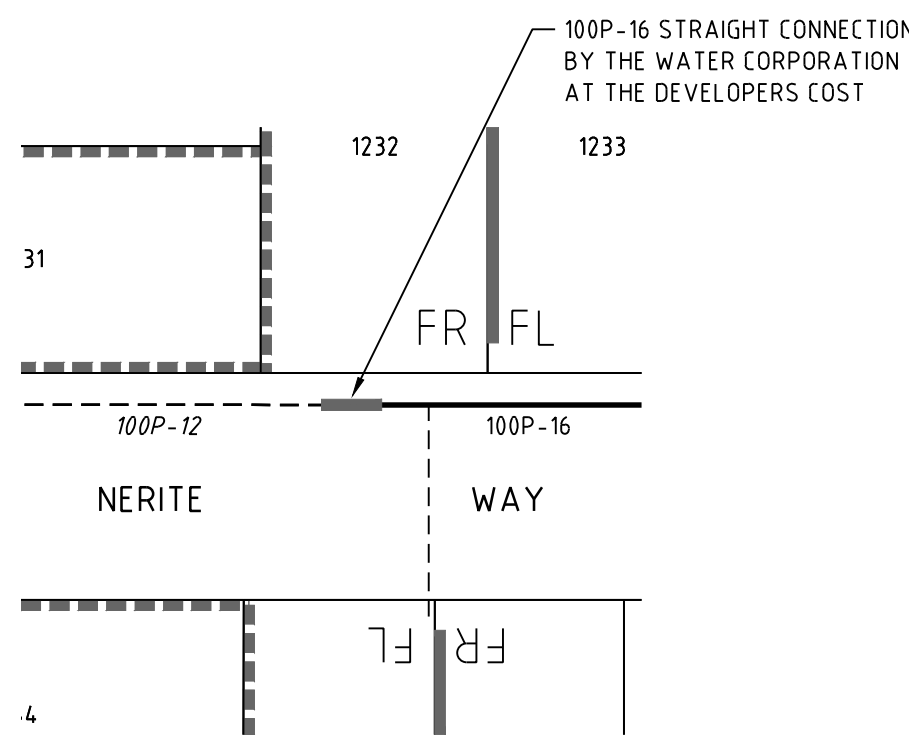
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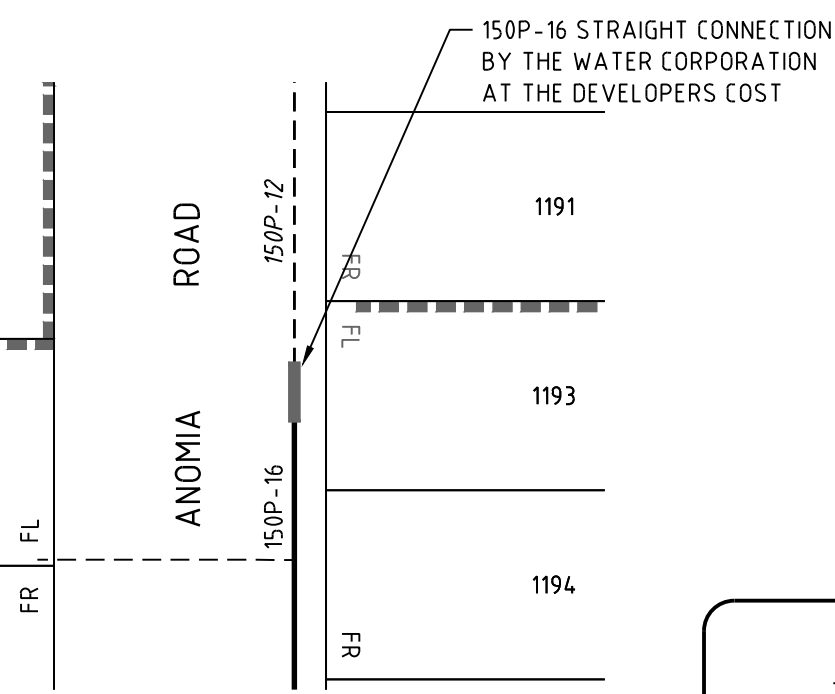
CONNECTION DETAIL No. 2

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CONNECTION DETAIL No. 3

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CONNECTION DETAIL No. 4

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MSWA RETICULATION SUBMISSION

This plan is accepted as being in accordance with the endorsed Concept Plan:
NM08-100-001-01A

Compliance with relevant design standards and manuals remains the responsibility of the Design Engineer.

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?????

FILE: ?????

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SERVICES

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LEGEND

DESCRIPTION	SYMBOL
RETICULATION AREA BOUNDARY	
PROPOSED MAINS	
PROPOSED VALVE (No. = 2)	
PROPOSED HYDRANT (No. = 1)	
PROPOSED PRELAID LONG SERVICE	
CHANGE IN PIPE SIZE	
FLUSHING POINT (No. = 0)	
TEMPORARY BLANK END AND FLUSHING POINT (No. = 1)	
CONNECTION BY WATER CORPORATION (No. = 2)	
EXISTING MAIN, HYDRANT AND VALVE	
FUTURE MAIN, HYDRANT AND VALVE	
FUTURE DISTRIBUTION MAINS	
PROPOSED RETAINING WALL	
EXISTING RETAINING WALL	
FUTURE RETAINING WALL	
DEFERRED SERVICE	
SERVICE LAID IN THIS STAGE FOR RELEASE IN FUTURE STAGE	
SERVICE LAID IN PREVIOUS STAGE TO BE RELEASED IN THIS STAGE (7)	
SERVICE UNDER RETAINING WALL	
SERVICE IN BELOW GROUND PIT (REFER WC DWG BD62-2-9)	

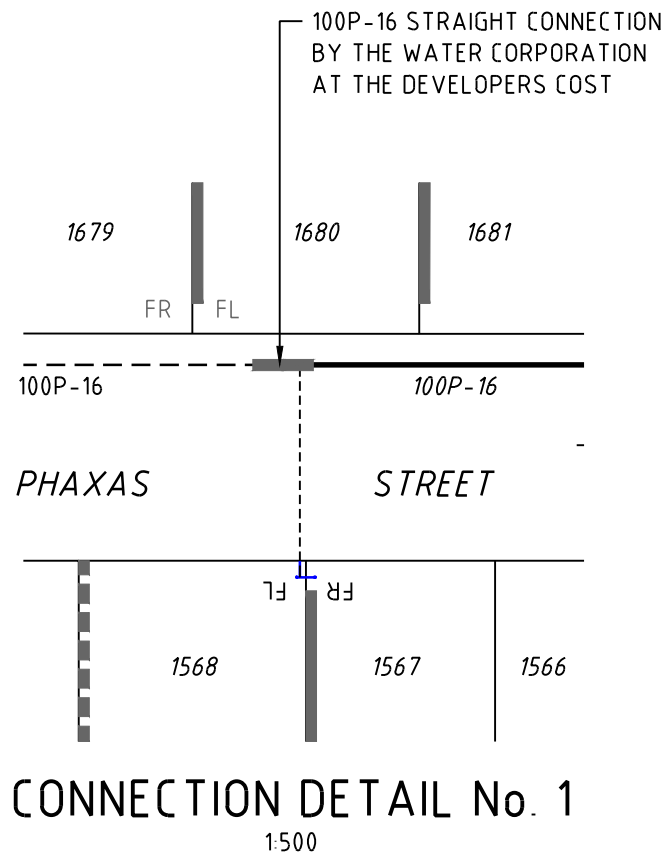
SERVICES	QTY (No.)
PRELAID SHORT DUAL	5
PRELAID LONG DUAL	7
PRELAID SHORT SINGLE	
PRELAID LONG SINGLE	
TOTAL	12
TOTAL NUMBER OF LOTS SERVED	24
NUMBER OF DEFERRED SERVICES	0
EXTENSION	QTY (m)
100 P-16	126.1
250 P-16	71.9

WARNING TO CONTRACTOR UXO
THE SITE IS IDENTIFIED AS HAVING RISK OF UNEXPLODED ORDNANCE.

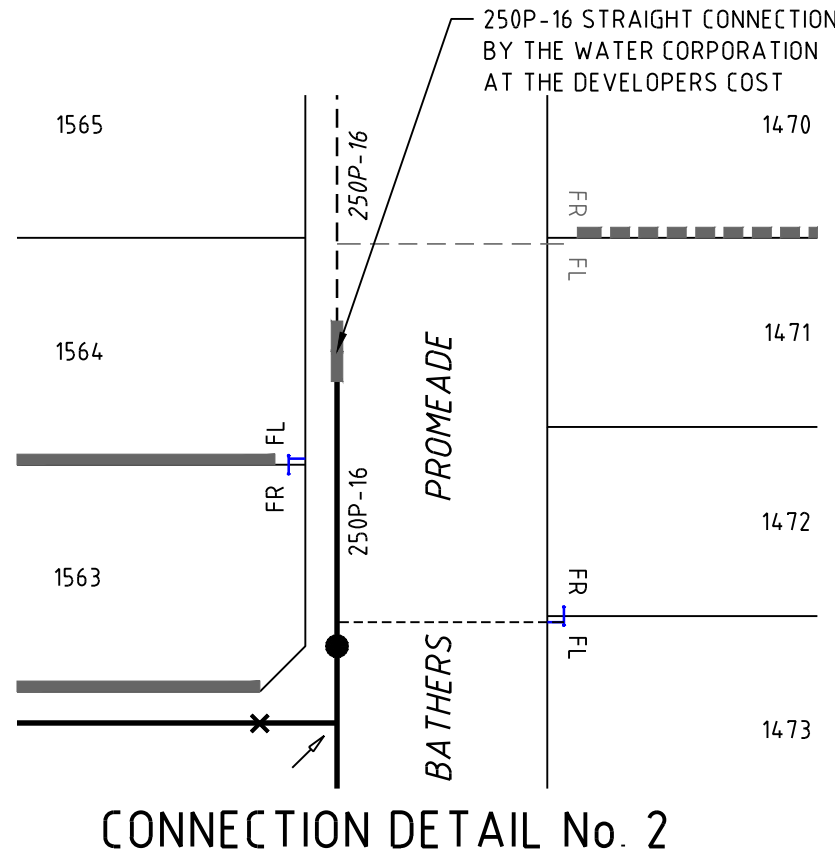
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NOTICE TO CONTRACTOR

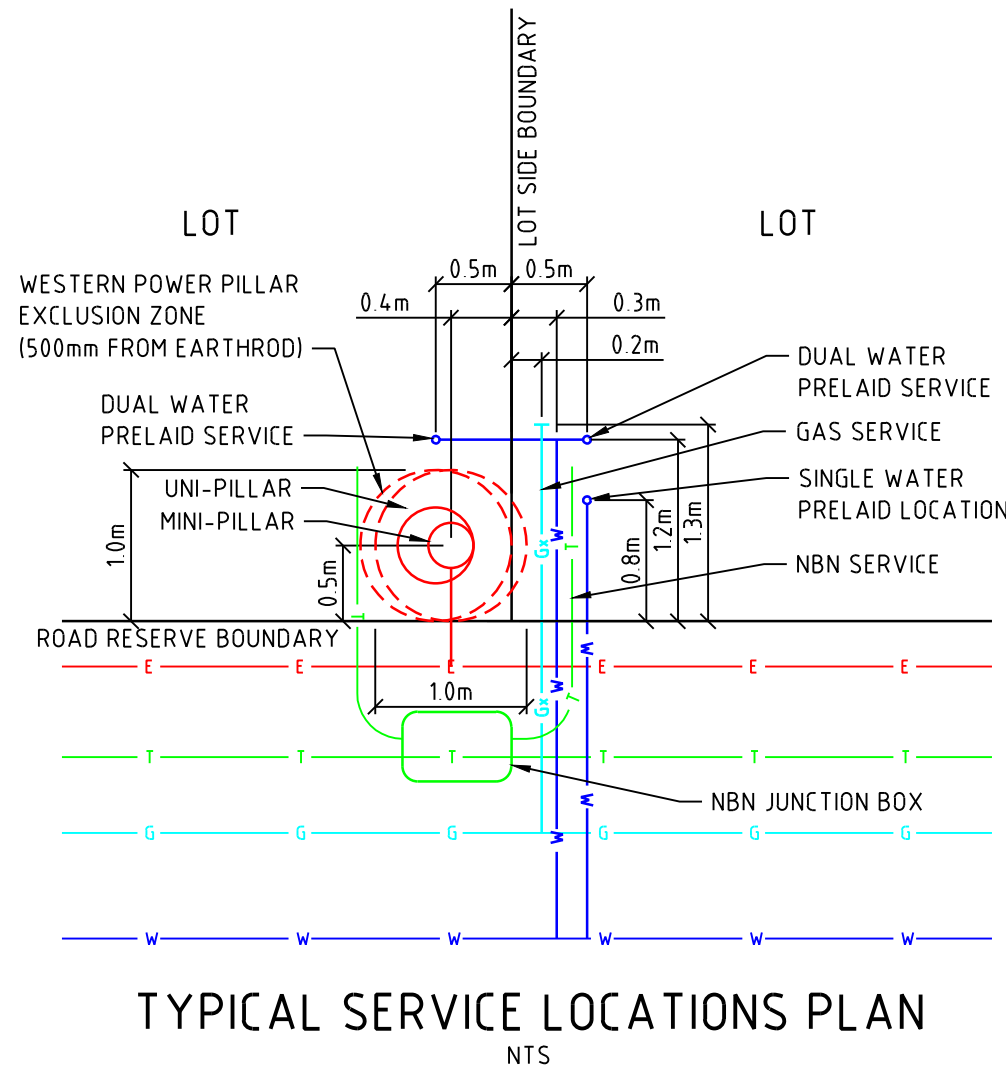
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CONNECTION DETAIL No. 1



CONNECTION DETAIL No. 2




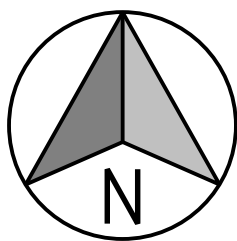
TYPICAL SERVICE LOCATIONS PLAN
NTS

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NW91-103-001-01A

FILE: 131147215

0	11.04.22	AMP		ISSUED FOR CONSTRUCTION	
B	25.02.22	AMP	DOB B. MARSHALL	VALVE ADDED. WATER CORPORATION FILE NUMBERS ADDED	
A	08.02.22	DMC	DOB B. MARSHALL	ISSUED FOR APPROVAL	
REV	DATE	DRN	CKD	APP	AMENDMENT



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Subiaco WA 6904
Street Address
B12 (Level 2) 431 Roberts Road
Subiaco WA 6008
T (08) 9422 5800 F (08) 9422 5801 E admin@cosweb.com.au

CLIENT
OCEAN SPRINGS PTY LTD (BUTLER JV)
APPROVED
11.04.22
DESIGNED
MS
SCALE
1:500

PROJECT
EDEN BEACH (LOT 9 JINDALEE) - STAGE 40
TITLE
WATER RETICULATION PLAN
WAPC No.
159574
DRAWING No.
5636-LOT 9-40-500
REVISION
0

ORIGINAL SIZE
A1

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Document Status

Report version	Rev No.	Purpose	Author	Reviewed and Approved for Issue	
				Name	Date
Draft Report	Rev 0	Issued for use: to facilitate WAPC subdivision clearances and future lots sales/building permit approvals	Olivia Johnston	Zac Cockerill (BPAD 37803, Level 2)	27 September 2022

