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Alkimos Beach

EPBC 2011/5902 Annual Compliance Report
2016

Prepared for
Lendlease
by Strategen

November 2016

Alkimos Beach

EPBC 2011/5902 Annual Compliance Report
2016

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November 2016

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Client: Lendlease

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1. Introduction

This report addresses the status and compliance of implementation of the Alkimos Beach residential development with the conditions in *Environmental Protection and Biodiversity Conservation Act 1999* (EPBC Act) approval 2011/5902 (EPBC 2011/5902). This report has been prepared for the purpose of meeting the requirements of condition 3 of EPBC 2011/5902, which requires the proponent to publish annual compliance reports.

1.1. Project background

Lendlease Communities (Alkimos) Pty Ltd (Lendlease¹), in partnership with LandCorp, is developing the Alkimos Beach Residential Development (Alkimos Beach, the project) located approximately 40 km northwest of the Perth Central Business District.

On 30 June 2012, Alkimos Beach was approved by the Federal Minister for the Environment under ss 130(1) and 133 of the EPBC Act. The Alkimos Beach development involves clearing of approximately 97 ha of native vegetation for development of Lot 1004, 80L Romeo Road and 2611 Marmion Avenue, Alkimos.

Alkimos Beach comprises four precincts as detailed in the Precinct Plan (Figure 1). Each precinct comprises several stages.

1.2. Environmental approval to implement the project

Alkimos Beach was referred to the Department of the Environment (DotE) (now the Department of the Environment and Energy [DEE]), for assessment under the EPBC Act in 2011. The project was approved with conditions on the 30 June 2012 (EPBC 2011/5902). A variation to EPBC 2011/5902 was approved on 24 August 2012, amending condition 14.

On 13 June 2013, following de-listing of the Graceful Sun-Moth from the threatened species list defined under the EPBC Act, a second variation to EPBC 2011/5902 was approved. The variation included removal of conditions 9, 10, 11, 15, 16, 17, Attachment B and changes to relevant definitions included in the EPBC 2011/5902 notice referring to those conditions. Revised conditions 10 and 11 were included in the EPBC 2011/5902 notice.

Following recommendations from the 2015 EPBC Act audit, the Precinct Landscape and Revegetation Plan required under condition 12 of EPBC 2011/5902 was updated and submitted to DotE for approval on 7 October 2015. The revised PLRP was approved on 4 April 2016.

A further request to vary conditions was approved by DEE on 19 August 2016. The variation included revision to condition 4 of EPBC 2011/5902 to include the 'Revised Management Plan condition' whereby minor updates that do not result in a 'new or increased impact' to the protected matter can be made to management plans without requiring approval from the Minister.

¹ Lendlease has recently rebranded from 'Lend Lease'. Documents referenced in this Annual Compliance Report that were prepared prior to the rebranding reference the previous two part version of the brand name (i.e. Lend Lease).

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Legend

Structure Plan Area

Reserves

- Public Use - (PS) Primary School
- Regional Parks & Recreation (Foreshore Reserve)
- Conservation POS
- Active POS

Zones

- Residential
- Commercial
- Mixed Use
- Private Clubs/Recreation

Other

- Indicative STS Route
- Neighbourhood Connector
- Precinct Boundary (based on plan DLL ALK RD1 116C)
- Social / Pedestrian / Cycle Linkage
- Indicative Foreshore Pedestrian and Cycle Link (as per Alkimos-Eglinton District Structure Plan)

Precincts

- Precinct 1
- Precinct 2
- Precinct 3
- Precinct 4
- Strategic Public Open Space - Refer to Table 3 of Part 1 - Statutory Section

NOTES:

1. Areas identified as being of National Environmental Significance under the Environmental Protection and Biodiversity Conservation Act 1999 may be subject to assessment by the Federal Department of Sustainability, Environment, Water, Population and Communities, in accordance with this Act. The outcome of any such assessment may require either a modification to the LSP or minor variations from the LSP at the subdivision and/or development stage.
2. The clearing of habitat such as *Lomandra hermaphrodita* and *Maritima* that includes the taking of individual Graceful Sun Moths requires the permission of the Minister for Environment, or their delegate, pursuant to the Wildlife Conservation Act 1950. Evidence is to be provided to the WAPC at the time of subdivision that the licence (if required) has been issued by the Department of Environment and Conservation.



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LOCAL STRUCTURE PLAN No.72 (AMENDMENT No.04)

Alkimos Beach, South Alkimos

City of Wanneroo



REF NO. DLL ALK	DRAW NO. RD1 008	REV. N
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2. Current status

Activities undertaken during the audit period (6 September 2015 to 5 September 2016) involved activities relating to Precinct 1, 2, 3 and 4, conservation area and foreshore area of the Alkimos Beach development, including the following:

- planting within the following areas:
 - * Precinct 1
 - * Precinct 2
 - * conservation area
 - * foreshore reserve.
- vegetation clearing within the following areas:
 - * Precinct 1
 - * Precinct 2
 - * Precinct 3
 - * Precinct 4.
- construction within the following area:
 - * Precinct 1
 - * Precinct 2
 - * Precinct 3
 - * Precinct 4.

3. Audit methodology

3.1 Audit plan

3.1.1 Purpose and scope

This document has been prepared for Lendlease to fulfil the requirements of condition 3 of EPBC 2011/5902. Condition 3 requires the person taking the action to publish an annual report for the previous twelve-month period, addressing compliance with each condition of EPBC 2011/5902; as follows:

'Within three months of every 12 month anniversary of the commencement of the action, the person taking the action must publish a report on their website addressing compliance with each of the conditions of this approval, including implementation of any management plans as specified in the conditions. Documentary evidence providing proof of the date of publication and non-compliance with any of the conditions of this approval must be provided to the Department at the same time as the compliance report is published. Each management plan must be published on the website for the length of the approval.'

This Annual Compliance Report (ACR) addresses the audit period between 6 September 2015 and 5 September 2016 for the conditions and commitments of EPBC 2011/5902. Proponent management commitments included in the following management plans, required by conditions 10, 11 and 12 respectively, were also assessed as part of the audit:

- Conservation Area Management Plan (CAMP) (RPS 2013)
- Foreshore Management Plan (FMP) (RPS 2014)
- Precinct Landscape and Revegetation Plan (PLRP) v 3 (Lendlease 2016).

Audit of the management plans involved assessment of each commitment to determine if the plan had been satisfactorily implemented.

Where a previous ACR had found a condition or management commitment to be 'Compliant (completed)' that finding is accepted as continuing to be applicable to the current audit period unless circumstances to the contrary are identified, in which case the item is re-assessed.

3.1.2 Methodology

The audit was undertaken in August 2016 and involved a site inspection (31 August 2016), interviews with key members of the project team and a review of documentation to support the audit.

Table 1 provides an overview of the personnel consulted as part of the audit.

Table 1 Persons consulted during audit

Person and position	Organisation	Purpose
Nadja Kampfhenkel	Lendlease	To obtain verifiable evidence to assist in determining compliance with conditions of approval
Peter Grose	Tranen	To obtain verifiable evidence to assist in determining compliance with conditions of approval
Emma Carr	Emerge Associates	To obtain verifiable evidence to assist in determining compliance with conditions of approval

3.2 Audit terminology

The 'Status' field of the audit tables (refer to Section 4) describes the implementation of actions and compliance with the approval. DotE (2014) has published Annual Compliance Report Guidelines and terminology from this guidance was applied in this audit.

Table 2 Action implementation status

Status	Acronym	Description
Conditions of approval		
Compliant	C	Sufficient evidence is required to confirm that all the requirements of a condition have been met, including the implementation of management plans or other measures required by those conditions. (Note Strategen also utilises the status 'Compliant (completed)' where a requirement has a finite period of application and has been determined to be satisfactorily completed).
Potentially Non-compliant	PNC	The requirements of a condition or elements of a condition, including the implementation of management plans and other measures, have not been met.
Not applicable	NA	The requirements of a condition or elements of a condition fall outside of the scope of the current reporting period. For example a condition which applies to an activity that has not yet commenced.
Management Plans		
Conformant	C	Sufficient evidence is required to confirm that the requirements of the procedures, programs and/or management actions detailed within an Environmental Management Plan or similar document have been satisfactorily met.
Potentially Non-conformant	PNC	Considered to be any deviation from the procedures, programs and/or management actions detailed within an Environmental Management Plan or similar document.
Not applicable	NA	The requirements of a management action fall outside of the scope of the current reporting period. For example a condition which applies to an activity that has not yet commenced.

Source: adapted from DotE (2014)

4. Audit results

The results of the 2016 audit of EPBC 2011/5902 are shown in Table 5. The results of the 2016 audit of conformance with the management actions contained within the CAMP (condition 10), FMP (condition 11) and PLRP (condition 12) are outlined in Appendix 1, Appendix 2 and Appendix 3, respectively.

A total of 178 items were audited from EPBC 2011/5902, CAMP, FMP and PLRP.

4.1 Compliance with conditions

No potential non-compliances with conditions of EPBC 2011/5902 (Table 5) were identified during the audit.

4.1.1 Conformance with the Conservation Area Management Plan

No potential non-conformances with the requirements of the CAMP (Appendix 1) were identified during the audit.

4.1.2 Conformance with the Foreshore Management Plan

No potential non-conformances with the requirements of the FMP (Appendix 2) were identified during the audit.

4.1.3 Conformance with the Precinct Landscape and Revegetation Plan

One potential non-conformance with the requirements of the PLRP (Appendix 3) was identified during the audit, whereby Table 6 of the PLRP requires that monitoring of the success of species planted within the PLRP area is required to be undertaken annually. The audit found that monitoring of success is undertaken as part of Practical Completion; however, not annually as per the action (PLRP 10).

5. Audit conclusions and recommendations for improvement

5.1 EPBC 2011/5902

From the site inspection, interviews and review of documentation provided by Lendlease, Tranen and Emerge, the auditors concluded that all conditions of EPBC 2011/5902 were implemented satisfactorily during the audit period.

5.2 Conservation Area Management Plan

5.2.1 Recommendations

From the site inspection, interviews and review of documentation provided by Lendlease and Tranen, the auditors concluded that the CAMP required by condition 10 of EPBC 2011/5902 was satisfactorily implemented during the audit period. The plan was updated during the audit period; however, approval occurred after the audit period closed (22 September 2016). The auditors recommend the following be undertaken:

- ensure Post Activity Reports divide species planted into the four applicable categories, or otherwise consider revision to the CAMP if such division is practicably difficult
- recommend future photographs are taken from the permanent reference points.

5.2.2 CAMP performance

In accordance with the CAMP (refer to audit item CAMP 60), the ACR is required to contain a conservation area Carnaby's Black Cockatoo habitat revegetation section which will include the following:

- *revegetation completion criteria and weed monitoring*
- *revegetation and weed contingency actions if required*
- *erosion monitoring within the revegetation area*
- *report observations of feral pests*
- *temporary fencing, pathways and signage of the revegetation area*
- *report any fire incidences in the foreshore and the response.*

The information required to address CAMP 60 is provided in Table 3, and is based on advice from Lendlease and Tranen.

Table 3 Conservation area Carnaby's Black Cockatoo habitat revegetation performance

Action item	Status																																				
Revegetation completion criteria and weed monitoring	<p>Monitoring of the CAMP completion criteria commenced in Spring 2015 and one other monitoring program has been undertaken since then in Autumn 2016. Results of the monitoring against completion criteria is included in the table below:</p> <table border="1"> <thead> <tr> <th>Year after planting</th> <th>Year 1</th> <th>Year 2</th> <th>Responsibility for three years post-commencement of works</th> <th>Spring 2015 (overall mean)</th> <th>Autumn 2016 (overall mean)</th> </tr> </thead> <tbody> <tr> <td>Survival of planted seedlings²</td> <td>90%</td> <td>70%</td> <td>Lendlease</td> <td>-</td> <td>-</td> </tr> <tr> <td>Minimum plant density (stems/m²)</td> <td>5</td> <td>4</td> <td>Lendlease</td> <td>2.2</td> <td>1.8</td> </tr> <tr> <td>Minimum plant diversity (% of original number of planted species in project area that have survived)</td> <td>70%</td> <td>70%</td> <td>Lendlease</td> <td>84.1</td> <td>93</td> </tr> <tr> <td>Plant coverage (% area of visual ground cover measured by a botanist/revegetation consultant)</td> <td>25%</td> <td>50%</td> <td>Lendlease</td> <td>1.9</td> <td>18.3</td> </tr> <tr> <td>Weeds coverage</td> <td>10% cover</td> <td>10% cover</td> <td>Lendlease</td> <td><1</td> <td><1</td> </tr> </tbody> </table>	Year after planting	Year 1	Year 2	Responsibility for three years post-commencement of works	Spring 2015 (overall mean)	Autumn 2016 (overall mean)	Survival of planted seedlings ²	90%	70%	Lendlease	-	-	Minimum plant density (stems/m ²)	5	4	Lendlease	2.2	1.8	Minimum plant diversity (% of original number of planted species in project area that have survived)	70%	70%	Lendlease	84.1	93	Plant coverage (% area of visual ground cover measured by a botanist/revegetation consultant)	25%	50%	Lendlease	1.9	18.3	Weeds coverage	10% cover	10% cover	Lendlease	<1	<1
Year after planting	Year 1	Year 2	Responsibility for three years post-commencement of works	Spring 2015 (overall mean)	Autumn 2016 (overall mean)																																
Survival of planted seedlings ²	90%	70%	Lendlease	-	-																																
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Weeds coverage	10% cover	10% cover	Lendlease	<1	<1																																
Revegetation and weed contingency actions if required	<p>Infill planting has taken place where completion criteria are not being met. Weed control continues to be undertaken as per the CAMP requirements.</p>																																				
Erosion monitoring within the revegetation area	<p>Erosion controls have been put in place as part of the initial revegetation works (brushing and mulch). Brushing continues to be applied where required.</p>																																				
Report observations of feral pests	<p>Rabbits seem to have been eliminated from the revegetation areas, as evidenced by the observations of the animal control expert and no rabbit damage has been observed to plants where the tree guards were knocked off by 4WDs and motorbikes. In addition, no fresh rabbit scats have been observed. Kangaroo grazing has been noted during summer months.</p>																																				
Temporary fencing, pathways and signage of the revegetation area	<p>Temporary fencing, boulders and signs have been installed in key areas to restrict access to the revegetation areas. Tracks not required for use have been revegetated. Monitoring of the temporary fencing and signage is carried out on a weekly basis by the construction contractor.</p>																																				
Report any fire incidences in the foreshore and the response	<p>No fire incidents have been observed to date. Any future incidents and weed monitoring will be reported as part of the biannual monitoring report and contingency measures put in place if required.</p>																																				

² Survival of planted seedlings does not take into account plants established from seed, therefore this completion criterion was not reported on in 2015/2016. An updated CAMP has now been approved (22 September 2016) incorporating a corrected established plant density target, including both the planted seedling survival rate and seed germination. The 2017 ACR should report against the amendment.

5.3 Foreshore Management Plan

5.3.1 Recommendations

From the site inspection, interviews and review of documentation provided by Lendlease and Tranen, the auditors concluded that the FMP required by condition 11 of EPBC 2011/5902 was satisfactorily implemented during the audit period. The plan was updated during the audit period; however, approval occurred after the audit period closed (22 September 2016). The auditors recommend the following be undertaken:

- ensure Post Activity Reports divide species planted into the four applicable categories, or otherwise consider revision to the FMP if such division is practicably difficult.
- recommend future photographs are taken from the permanent reference points.

5.3.2 FMP performance

In accordance with the FMP (refer to audit item FMP 60), the ACR is required to contain a foreshore Carnaby's Black-Cockatoo habitat revegetation section which will include the following:

- *revegetation completion criteria and weed monitoring*
- *revegetation and weed contingency actions if required*
- *erosion monitoring within the foreshore area*
- *report observations of feral pests*
- *temporary fencing, pathways and signage of the revegetation area*
- *report any fire incidences in the foreshore and the response.*

The information required to address FMP 60 is provided in Table 3, and is based on advice from Lendlease and Tranen.

Table 4 Foreshore Carnaby's Black-Cockatoo habitat revegetation performance

Action item	Status																																				
Revegetation completion criteria and weed monitoring	<p>Monitoring of the CAMP completion criteria commenced in Spring 2015 and one other monitoring program has been undertaken since then in Autumn 2016. Results of the monitoring against completion criteria is included in the table below:</p> <table border="1"> <thead> <tr> <th>Year after planting</th> <th>Year 1</th> <th>Year 2</th> <th>Responsibility for five years post-commencement of works</th> <th>Spring 2015 (overall mean)</th> <th>Autumn 2016 (overall mean)</th> </tr> </thead> <tbody> <tr> <td>Survival of planted seedlings³</td> <td>90%</td> <td>90%</td> <td>Lendlease</td> <td>-</td> <td>-</td> </tr> <tr> <td>Minimum plant density (stems/m²)</td> <td>5</td> <td>4</td> <td>Lendlease</td> <td>2.8</td> <td>2.5</td> </tr> <tr> <td>Minimum plant diversity (% of original number of planted species in project area that have survived)</td> <td>70%</td> <td>70%</td> <td>Lendlease</td> <td>86.6</td> <td>84</td> </tr> <tr> <td>Plant coverage (% area of visual ground cover measured by a botanist/revegetation consultant)</td> <td>25%</td> <td>50%</td> <td>Lendlease</td> <td>2.4</td> <td>13</td> </tr> <tr> <td>Weeds coverage</td> <td>10% cover</td> <td>10% cover</td> <td>Lendlease</td> <td><1</td> <td><1</td> </tr> </tbody> </table>	Year after planting	Year 1	Year 2	Responsibility for five years post-commencement of works	Spring 2015 (overall mean)	Autumn 2016 (overall mean)	Survival of planted seedlings ³	90%	90%	Lendlease	-	-	Minimum plant density (stems/m ²)	5	4	Lendlease	2.8	2.5	Minimum plant diversity (% of original number of planted species in project area that have survived)	70%	70%	Lendlease	86.6	84	Plant coverage (% area of visual ground cover measured by a botanist/revegetation consultant)	25%	50%	Lendlease	2.4	13	Weeds coverage	10% cover	10% cover	Lendlease	<1	<1
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Weeds coverage	10% cover	10% cover	Lendlease	<1	<1																																
Revegetation and weed contingency actions if required	Infill planting has taken place where completion criteria are not being met. Weed control continues to be undertaken as per the CAMP requirements.																																				
Erosion monitoring within the revegetation area	Erosion controls have been put in place as part of the initial revegetation works (brushing and mulch). Brushing continues to be applied where required. In some brushed areas wind turbulence around the base of tree guards has blown sand away partially; however some species, particularly in the blowout area thrive in shifting sand.																																				
Report observations of feral pests	Rabbits seem to have been eliminated from the revegetation areas, as evidenced by the observations of the animal control expert and no rabbit damage has been observed to plants where the tree guards were knocked off by 4WDs and motorbikes. In addition no fresh rabbit scats have been observed. Kangaroo grazing has been noted during summer months.																																				
Temporary fencing, pathways and signage of the revegetation area	Temporary fencing, boulders and signs have been installed in key areas to restrict access to the revegetation areas. Tracks not required for use have been revegetated. Monitoring of the temporary fencing and signage is carried out on a weekly basis by the construction contractor.																																				
Report any fire incidences in the foreshore and the response	No fire incidents have been observed to date. Any future incidents and weed monitoring will be reported as part of the biannual monitoring report and contingency measures put in place if required.																																				

³ Survival of planted seedlings does not take into account plants established from seed, therefore this completion criterion was not reported on in 2015/2016. An updated CAMP has now been approved (22 September 2016) incorporating a corrected established plant density target, including both the planted seedling survival rate and seed germination. The 2017 ACR should report against the amendment

5.4 Precinct Landscape and Revegetation Plan

5.4.1 Recommendations

From the site inspection, interviews and review of documentation provided by Lendlease and its contractors, the auditors concluded that the PLRP required by condition 12 of EPBC 2011/5902 was satisfactorily implemented during the audit period. The PLRP was revised during the audit period and was approved by DotE on 4 April 2016. The auditors recommend the following be undertaken:

- is recommended that the Precinct Plan and Planting targets are updated to ensure consistency in the total areas within each park area.

5.4.2 PLRP performance

In accordance with the annual reporting requirements outline in the PRLP (audit item PLRP 19), the ACR is required to include the following:

1. Provide an update of any completed or tendered landscape for future stages. A summary of the works undertaken during the audit period, including greenstock reports are provided in Appendix 4.
2. Report against planting targets. Tracking against the rehabilitation targets are provided in Appendix 5, including tree and shrub tracking spreadsheets.
3. Report against survival of landscape. Practical completion, including survival of plants in the landscape area is included in Appendix 6.

Table 5 Compliance with Conditions of EPBC 2011/5902

Condition number	Condition	Evidence/Comment	Compliance status
1	Within 30 days after the commencement of Construction, the person taking the action must advise the Department in writing of the actual date of commencement.	This item is reported as completed in the 2014 Compliance Report (R_001).	C (completed)
2	The person taking the action must maintain accurate records substantiating all activities associated with or relevant to the conditions of approval, and make them available upon request to the Department. Such records may be subject to audit by the Department or an independent auditor in accordance with section 458 of the EPBC Act, or used to verify compliance with the conditions of approval. Summaries of audits will be posted on the Department's website. The results of audits may also be publicised through the general media.	Accurate records for all applicable conditions have been maintained and were available at the time of the audit and following the audit (refer to other items in this table and appendices).	C
3.1	Within three months of every 12 month anniversary of the commencement of the action, the person taking the action must publish a report on their website addressing compliance with each of the conditions of this approval, including implementation of any management plans as specified in the conditions.	<i>Alkimos Beach EPBC 2011/5902 Annual Compliance Report 2015</i> (R_002). Email correspondence (C_001). The 2015 Compliance Report (R_002) was published on the Alkimos Beach website on 25 November 2015, within 3 months of the anniversary of the commencement of the action (5 September 2015) (C_001). The 2013, 2014 and 2015 Compliance Reports remained on the website after the completion of the audit period (22 September 2016) at: http://communities.lendlease.com/alkimos-beach/living-in-alkimos-beach/sustainability-and-environment/ The 2015 Compliance Report (R_002) addresses compliance with the conditions of approval and implementation of the PLRP, CAMP and FMP.	C
3.2	Documentary evidence providing proof of the date of publication and non-compliance with any of the conditions of this approval must be provided to the Department at the same time as the compliance report is published.	Refer to item 3.1.	C
3.3	Each management plan must be published on the website for the length of the approval.	The PLRP, CAMP and FMP were sighted on the Alkimos Beach website after the completion of the audit period (22 September 2016) at: http://communities.lendlease.com/alkimos-beach/living-in-alkimos-beach/sustainability-and-environment/	C

Condition number	Condition	Evidence/Comment	Compliance status
4.1	a) The person taking the action may choose to revise the CAMP, FMP and PLRP approved by the Minister under conditions 10, 11 and 12 without submitting it for approval (including approval under section 143A of the EPBC Act), if the taking of the action in accordance with the revised plan would not be likely to have a new or increased impact.	<p><i>EPBC 2011/5902 Alkimos Beach variation_19 August 2016 (C_002).</i> <i>EPBC 2011/5902 Alkimos Beach variation_23 August 2016 (C_003).</i> <i>EPBC 2011/5902 Alkimos Beach revised CAMP and FMP_22 September 2016 (C_004).</i></p> <p>A variation to condition 4 of EPBC 2011/5902 was approved by DEE on 19 August 2016, including the addition of the revised management plan condition (condition 4; C_002).</p> <p>Following approval a corrected CAMP and FMP were prepared and submitted to DEE on 23 August 2016 (C_003) including a corrigenda detailing minor updates to the plans (corrections and clarifications of the existing plans). The corrected CAMP and FMP were submitted to DEE as clarifications of the rehabilitation targets were proposed, to ensure the approved plans were consistent with respect to targets, in addition to minor corrections. At the time of undertaking the audit (31 August 2016) and completion of the audit period (5 September 2016) the corrected CAMP and FMP were not yet approved; however, the corrections were approved by DEE on 22 September 2016 (C_004), after the close of the 2016 audit period.</p>	C
4.2	<p>If the person taking the action makes this choice they must:</p> <p>i) Notify the Department in writing that the approved plan has been revised and provide the Department with:</p> <ul style="list-style-type: none"> • an electronic copy of the revised plan • an explanation of the differences between the revised plan and the approved plan; and • the reasons the person taking the action considers that taking the action in accordance with the revised plan would not be likely to have a new or increased impact. 	<p><i>EPBC 2011/5902 Alkimos Beach variation_23 August 2016 (C_003).</i></p> <p>DEE was notified in writing that a revised CAMP and FMP had been prepared on 23 August 2016 (C_003). An explanation of the proposed amendments and justification that the revised plans would not result in a new or increased impact was also provided as part of the plans' submission (C_003).</p>	C
4.3	ii) Declare in writing a date on which the revised plan will first be implemented by the person taking the action. That date of initial implementation must be at least 28 days after the revised plan is submitted.	<p><i>EPBC 2011/5902 Alkimos Beach variation_23 August 2016 (C_003).</i></p> <p>The submission of the corrected CAMP and FMP included a request for the 28 day holding period detailed in condition 4(ii) of EPBC 2011/5902 to be waived as the requirement is not applicable, as the 'revisions' to the CAMP and FMP were corrections and clarifications of the existing plans (C_003).</p> <p>A formal response to the above request was not provided by DEE at the time of approving the revised CAMP and FMP (C_004), however, the acceptance of the revised plans is taken by the auditors to constitute tacit approval of the sought after waiver.</p>	C
4.4	b) The person taking the action may revoke their choice under condition 4.a) at any time by giving written notice to the Department, in which case from the following day the person taking the action must implement the approved plan.	Not applicable at the time of this audit.	NA

Condition number	Condition	Evidence/Comment	Compliance status
4.5	<p>c) If the Minister gives a notice to the person taking the action that the Minister is satisfied that the taking of the action in accordance with the revised plan would be likely to have a new or increased impact, then:</p> <p>i) Condition 4.a) does not apply, or ceases to apply, in relation to the revised plan; and</p> <p>ii) The person taking the action must implement the approved plan.</p> <p>To avoid any doubt, this condition does not affect any operation of conditions 4.a) and 4.b) in the period before the day notice is given.</p>	<p>Refer to item 4.1.</p> <p>As the revised CAMP and FMP were not approved during the 2015 audit period, this condition is not applicable.</p>	NA
4.6	At the time of giving the notice the Minister may also notify that for a specified period of time condition 4.a) does not apply for one or more specified plans required under the approval.	<p>Refer to item 4.1.</p> <p>As the revised CAMP and FMP were not approved during the 2015 audit period, this condition is not applicable.</p>	NA
5	If the Minister believes that it is necessary or convenient for the better protection of Listed threatened species and communities (sections 18 and 18A) to do so, the Minister may request that the person taking the action make specified revisions to the management plan specified in the conditions and submit the revised management plan for the Minister's written approval. The person taking the action must comply with any such request. The revised approved management plan must be implemented. Unless the Minister has approved the revised management plan then the person taking the action must continue to implement the management plan originally approved, as specified in the conditions.	<p>Management advice (31 August 2016).</p> <p>Lendlease advised that no request has been received from the Minister for any management plans to be updated.</p>	NA
6	If, at any time after five years from the date of this approval, the person taking the action has not substantially commenced the action, then the person taking the action must not substantially commence the action without the written agreement of the Minister.	The action has substantially commenced within five years of from the date the approval.	NA
7.1	Unless otherwise agreed to in writing by the Minister, the person taking the action must publish all management plans referred to in their conditions of approval on their website.	The PLRP, CAMP and FMP were sighted on the Alkimos Beach website after the completion of the audit period (22 September 2016) at: http://communities.lendlease.com/alkimos-beach/living-in-alkimos-beach/sustainability-and-environment/	C
7.2	Each management plan must be published on the website within 1 month of being approved and must remain on the website for the life of the project.	The 2014 Compliance Report (R_001) verifies the revised management plans were published on the website in November 2013 prior to approval in April 2014. The PLRP, CAMP and FMP were sighted on the Alkimos Beach website after the completion of the audit period (22 September 2016) at: http://communities.lendlease.com/alkimos-beach/living-in-alkimos-beach/sustainability-and-environment/ The next ACR will assess compliance with respect to the updated plans.	C
8	The person taking the action must not clear more than 21.1 ha of Carnaby's Black Cockatoo foraging habitat from Lot 1004, 80L Romero Road and 2611 Marmion Avenue, Alkimos, Western Australia.	<p><i>Carnaby's Black Cockatoo Alkimos Beach - South Alkimos_31 August 2015 (R_003).</i></p> <p>Figures provided show clearing extent to date, with no additional clearing in the audit period outside of Carnaby's Cockatoo foraging habitat identified in areas to be retained (R_003).</p>	C
9	<i>Condition 9 deleted.</i>	NA.	NA

Condition number	Condition	Evidence/Comment	Compliance status
10.1	<p>To protect habitat for listed threatened species, the person taking the action must prepare and submit a Conservation Area Management Plan (CAMP) detailing management of POS (designated Conservation POS at Attachment A), for the approval by the Minister. The CAMP must include:</p> <ol style="list-style-type: none"> a) at least 2 ha of Carnaby's Black-Cockatoo foraging habitat to be retained and rehabilitated in POS on the project area, as shown in Attachment A, to be managed for habitat recovery, protection and conservation; b) details of supplementary planting equivalent to at least 1 ha of Carnaby's Black-Cockatoo foraging habitat on the project area (to be spread across conservation POS and ROS), including timeframes and survival targets proposed for plantings; c) measures to manage weeds and feral pests; d) bushfire prevention and management measures; e) erosion control measures; f) access management (including boardwalks, pathways, signage and fencing); g) performance indicators and corrective measures; h) monitoring and reporting measures; i) roles and responsibilities of contractors, staff and the person taking the action; and j) time frames for the implementation and management of the above measures. 	<p><i>Alkimos Beach EPBC 2011/5902 Annual Compliance Report 2014</i> (R_001). The process of preparation, submission and approval of the CAMP has been previously assessed as compliant in the 2014 Compliance Report (R_001).</p>	C (completed)
10.2	The CAMP must be submitted to the Department within 12 months of the date of approval.	<p><i>Alkimos Beach Compliance Report (2011/5902)</i> (R_004). This requirement was indicated to have been previously found compliant in the 2013 Compliance Report (R_004).</p>	C (completed)
10.3	If the Minister approves the CAMP, the approved plans must be implemented.	<p>The key actions of the CAMP were assessed during this audit period and it was found that of the 60 key actions identified within the CAMP:</p> <ul style="list-style-type: none"> • 50 conformant • seven conformant (completed) • two N/A • one not auditable. <p>Refer to Appendix 1 for further detail.</p>	C
10.4	No construction can commence in the area shown as the No Clearing area on Attachment C until the CAMP is approved by the Minister.	<p>DotE letter (C_005). <i>Alkimos Beach EPBC 2011/5902 Annual Compliance Report 2014</i> (R_001). The CAMP was approved on 8 April 2014 (C_005). The 2014 Compliance Report (R_001) confirms that no clearing had occurred in the No Clearing area prior to this date.</p>	C (completed)

Condition number	Condition	Evidence/Comment	Compliance status
11	<p>To protect habitat for listed threatened species, the person taking the action must prepare and submit a Foreshore Management Plan (FMP) detailing management of ROS on the project area (designated Regional Parks and Recreation at Attachment A), for approval by the Minister. The FMP must include:</p> <ol style="list-style-type: none"> details of supplementary planting equivalent to at least 1 ha of Carnaby's Black-Cockatoo foraging habitat on the project area (to be spread across conservation POS and ROS), including timeframes and survival targets proposed for plantings; details of funding to be provided for long-term conservation management of ROS and details of the entity who will be responsible for management of ROS; measures to manage weeds and feral pests; bushfire prevention and management measures; erosion control measures; access management (including visitor facilities, boardwalks, pathways, signage and fencing); performance indicators and corrective measures; monitoring and reporting measures; roles and responsibilities of contractors, staff and the person taking the action; and time frames for the implementation and management of the above measures. 	<p><i>Alkimos Beach EPBC 2011/5902 Annual Compliance Report 2014</i> (R_001).</p> <p>The process of preparation, submission and approval of the FMP has been previously assessed as Compliant in the 2014 Compliance Report (R_001).</p>	C (completed)
11.2	The FMP must be submitted to the Department within 12 months of the date of approval.	<p><i>Alkimos Beach Compliance Report (2011/5902)</i> (R_004).</p> <p>This requirement was indicated to have been previously found compliant in the 2013 Compliance Report (R_004).</p>	C (completed)
11.3	If the Minister approves the FMP, the approved plans must be implemented.	<p>The key actions of the FMP were assessed during this audit period and found that of the 60 key actions identified within the FMP:</p> <ul style="list-style-type: none"> • 51 conformant • seven conformant (completed) • one N/A • one not auditable <p>Refer to Appendix 2 for further detail.</p>	C
11.4	No construction can commence in the area shown as the No Clearing area on Attachment C until the FMP is approved by the Minister.	<p>DotE letter (C_005).</p> <p><i>Alkimos Beach EPBC 2011/5902 Annual Compliance Report 2014</i> (R_001).</p> <p>The FMP was approved on 8 April 2014 (C_005). The 2014 Compliance Report (R_001) confirms that no clearing had occurred in the No Clearing area prior to this date.</p>	C (completed)

Condition number	Condition	Evidence/Comment	Compliance status
12	To protect habitat for listed threatened species the person taking the action must prepare and submit a Precinct Landscape and Revegetation Plan (PLRP) for the project area, for approval by the Minister. The PLRP must include: <ol style="list-style-type: none"> measures to establish the equivalent of at least 5 ha of Carnaby's Black-Cockatoo habitat on the project area, through streetscape and landscape planting; at least 50% of plantings of trees and shrubs in streetscape and landscape planting must consist of plant species known to be primary feeding plants for Carnaby's Black-Cockatoo; timeframes and survival targets proposed for plantings; contingency measures if survival targets are not achieved; monitoring and reporting measures; roles and responsibilities of contractors, staff and the person taking the action; and timeframes for the implementation and management of the above measures. 	<i>Alkimos Beach EPBC 2011/5902 Annual Compliance Report 2014</i>) (R_001). The process of preparation, submission and approval of the PLRP has been previously assessed as Compliant in the 2014 Compliance Report (R_001).	C (completed)
12.2	The PLRP must be submitted to the Department within 12 months of the date of approval.	<i>Alkimos Beach EPBC 2011/5902 Annual Compliance Report 2014</i>) (R_001). This requirement was indicated to have been previously found compliant in the 2014 Compliance Report (R_001).	C (completed)
12.3	If the Minister approves the PLRP, the approved plans must be implemented.	The key actions of the PLRP were assessed during this audit period and found that of the 19 key actions identified within the PLRP: <ul style="list-style-type: none"> • one PNC • 15 conformant • two conformant (completed) • six N/A • one not auditable Refer to Appendix 3 for detail.	C
12.4	No construction can commence in the area shown as the No Clearing area on Attachment C until the PLRP is approved by the Minister.	<i>Alkimos Beach EPBC 2011/5902 Annual Compliance Report 2014</i>) (R_001). DotE letter (C_005). The CAMP was approved on 8 April 2014 (C_005). The 2014 Compliance Report (R_001) confirms that no clearing had occurred in the No Clearing area prior to this date.	C (completed)
13.1	To offset the loss of habitat for Carnaby's Black-Cockatoo, the person taking the action must, within 12 months of the commencement of construction, provide funds to WA DEC for the acquisition, and a contribution to management of the offset described in Alkimos Lot 1004 Residential Development Mitigation and Offsets Strategy for Matters of National Environmental Significance (Eco Logical Australia, January 2012).	<i>Alkimos Beach EPBC 2011/5902 Annual Compliance Report 2014</i>) (R_001). This item has been reported as completed in the 2014 Compliance Report (R_001).	C (completed)

Condition number	Condition	Evidence/Comment	Compliance status
13.2	The offset land must be at least 126 ha of freehold land in the Gingin area and contain vegetation that has equivalent or better foraging habitat for Carnaby's Black-Cockatoo, including Banksia woodland/shrubland. Within 4 weeks of the funding being provided to the WA DEC, the person taking the action must provide written evidence to the Department of the payment.	<i>Alkimos Beach EPBC 2011/5902 Annual Compliance Report 2014</i> (R_001). This item has been reported as completed in the 2014 Compliance Report (R_001).	C (completed)
14	Within 12 months of the commencement of construction, the person taking the action must provide the Department with a description and map clearly defining the location and boundaries of the offset property described at Condition 13, which must be accompanied with the offset attributes and a shapefile.	<i>Alkimos Beach EPBC 2011/5902 Annual Compliance Report 2014</i> (R_001). This item has been reported as completed in the 2014 Compliance Report (R_001).	C (completed)

6. References

Department of the Environment (DotE) 2014, *Annual Compliance Report Guidelines*, Commonwealth of Australia, Canberra.

Lend Lease 2012, *Precinct Landscape and Revegetation Plan*, November 2012.

RPS 2013, *Conservation Area Management Plan (Commonwealth)*, report prepared for Lend Lease, September 2013.

RPS 2014, *Foreshore Management Plan (Commonwealth)*, report prepared for Lend Lease, March 2014.

Appendix 1
Compliance with Conservation Area
Management Plan

Audit code	Action	Timing	Evidence/comment	Conformance status
Section 4.2 CAMP Revegetation and Monitoring Program				
Section 4.2.2 Carnaby's Black-Cockatoo Habitat - Native Vegetation Species to be Used				
CAMP 1.	A range of indigenous plant species will be used in this revegetation program for the CAMP study area. <i>The proposed native species to be used for rehabilitation purposes in the CAMP study area are outlined in Appendix 2.</i>	NA	Appendix 5 of the Tranen CAMP – Revegetation Plan (R_005) and the seedling planting list from Tranen (D_001) confirm that a range of indigenous plant species were used in the revegetation program. Not all species identified in Appendix 2 of the CAMP have been planted; however, the auditors consider this action has been met as a mix of species from Appendix 2 including local species has been used as confirmed by the revegetation specialist.	C
CAMP 2.	A range of overstorey and understorey species will be planted in order to provide diversity to the vegetation structure and habitat. <i>The proposed native species to be used for rehabilitation purposes in the CAMP study area are outlined in Appendix 2.</i>	NA	Appendix 5 of the Tranen CAMP – Revegetation Plan (R_005) confirms that a range of overstorey and understorey species are being used in revegetation.	C
Section 4.2.3.1 Plant Propagation				
CAMP 3.	Tubestock will be propagated from provenance seed at an accredited nursery.	NA	Tranen previously advised that tubestock used in initial planting has been propagated from provenance seed collected from Shorehaven (approximately 2.5 km north of project area) and propagated by Plantrite (R_002). Tranen provided Delivery Notes from Plantrite to verify (R_031). Plantrite is an accredited NIASA nursery (http://www.plantrite.com.au/). In addition, a seedbank statement was provided by Tranen, including details relating to seed batches, total seed withdrawn to date and total available seed (R_035).	C
CAMP 4.	Tubestock should be appropriately prepared and hardened and be free from pest and disease.	NA	The Tranen CAMP – Revegetation Plan (R_005) outlines the seedling propagation method being implemented. Tranen advised that as an accredited NIASA nursery, Plantrite provide tubestock to industry standards.	C
Section 4.2.3.2 Site Protection - Prior to Revegetation				
CAMP 5.	In order to avoid accidental clearing from construction activities and prevent unauthorised access, the identified Carnaby's Black-Cockatoo habitat in the revegetation area will be fenced.	NA	The revegetation area was noted to have been fenced during the 2015 audit, and in addition Strategen was informed by Lendlease that no construction activities have occurred within the 2015-2016 audit period. The fencing was confirmed to still be present during the site inspection (P_002).	C
CAMP 6.	All construction activities will be restricted to the subdivision areas and will avoid the revegetation area.	NA	Strategen was informed by Lendlease that no construction activities have occurred within the last audit period.	C
CAMP 7.	Signage will be placed on the fences around the revegetation area to inform workers the area is prohibited for construction activities.	NA	Signage sighted during site inspection (P_001- P_002).	C
Section 4.2.3.3 Revegetation Site Preparation				
CAMP 8.	To maximise the potential for revegetation success, the areas that are subject to revegetation will be prepared in the following manner: <ul style="list-style-type: none"> weed spraying commenced, rubbish and debris will be removed and disposed of appropriately 	NA	The 2015 audit (R_019) confirmed that rubbish and debris were removed prior to revegetation, and that weed control had been undertaken prior to revegetation, and therefore this action is considered to be completed.	C (completed)
CAMP 9.	<ul style="list-style-type: none"> brushing and / or mulching if required may be used to assist stabilising soil in erosion prone locations. 	NA	The 2015 audit (R_019) confirmed that mulch and brush was used to stabilise bare prior to revegetation and therefore this action is considered to be completed.	C (completed)
Section 4.2.3.4 Revegetation Method				
CAMP 10.	Revegetation species will be subdivided into four categories: <ol style="list-style-type: none"> Beach grasses and herbaceous species adopted for the most exposed locations. Semi-stable dune colonisers adapted to partially protected areas. Plants of protected dunal situations. Plants of protected well stabilised and vegetated areas. 	NA	Strategen was informed by Tranen that species were planted based on their ability to withstand environmental conditions and position within native vegetation structure of the general area, in accordance with the four categories described in the FMP. Lendlease was previously assessed as in conformance with this action (R_019); however, an auditor recommendation was made that Post Activity Reports divide species planted into these four categories, or otherwise consider revision to the CAMP if such division is practicably difficult. A review of the Post Activity Reports (R_033 and R_034) completed in the 2015-2016 audit period found that the reports do not divide species into the four categories. Strategen notes that Lendlease remain conformant with this action; however the recommendation stands (to divide species into these categories within Post Activity Reports).	C
Section 4.2.3.5 Scheduling				
CAMP 11.	Tube stock used in the revegetation program will be sourced from local accredited nurseries.		Refer to CAMP 3.	C
CAMP 12.	Planting will be carried out in winter; around June-July when the soil moisture content is high enough for optimum seedling growth without irrigation and after the existing weeds have germinated and have been sprayed.	In winter; around June-July	The Autumn Monitoring Report (R_006) states that site work commenced in July 2015 and was completed in September 2015. A 2016 planting list (D_001) and an invoice from Plantrite (D_008) has also been provided which demonstrates that seedlings were purchased in June 2016, with planting occurring after the autumn monitoring report. Tranen advised that planting was undertaken up until September in 2015 as the best results were found during mid September due to soil moisture still being present and plants receiving more sun. The auditors conclude this conforms to the requirements of the action as it states "when the soil moisture content is high enough for optimum seedling growth without irrigation" and "around" June-July – suggesting there is flexibility in the plan to ensure optimum results.	C
CAMP 13.	Each tube stock will be planted with a plastic guard to prevent rabbits feeding on plant stock and to protect from strong winds.	NA	Tubestock has been either planted with tree guards or within rabbit proof fenced areas (P_007) as outlined in Appendix 4 of the Tranen CAMP – Revegetation Plan (R_005). This was confirmed in areas observed by auditors during the site inspection. Invoice from Agrimate Fencing verifies the fence is rabbit proof (F_001). Tranen has advised it is not planning to use tree guards for future plantings as rabbits seem to have been eliminated from the revegetation areas (R_006) (also refer to CAMP 15). In addition to this the City of Wanneroo requires tree guards to be removed prior to summer to avoid them causing the plants to overheat (R_006).	C
CAMP 14.	Tubestock will mostly be planted at a density of two plants per m ² (as a minimum, species dependent) for rehabilitation.	NA	The 2015 audit (R_019) confirmed that plants were installed at a density of 2 plants/m ² and t this action is considered to be completed (subsequent planting to be addressed through monitoring and contingency actions – refer to CAMP 23–CAMP 35).	C (completed)
CAMP 15.	Rabbit guards will be used (if required) for tube stocks in the revegetation areas.	NA	Refer to CAMP 13.	C
Section 4.2.3.6 Signage				

Audit code	Action	Timing	Evidence/comment	Conformance status																								
CAMP 16.	To assist in preventing unauthorised access and trampling of revegetation efforts, additional signage may be installed.	NA	Signage sighted during site inspection (P_001 and P_002).	C																								
Section 4.2.3.7 Watering																												
CAMP 17.	Some tube stock will be planted with tablets/water crystals during planting to help improve survival rates.	NA	Post Activity Reports prepared by Tranen show fertiliser tablets were utilised during planting in the audit period (R_033; R_034).	C																								
Section 4.2.4 Weed Management																												
CAMP 18.	If weeds are considered an issue within the revegetation area, a weed spraying program to eradicate weed species, prior to installation of seeds and seedlings will be implemented.	Spring and autumn prior to initial revegetation	The 2015 audit (R_019) confirmed that weed control had been undertaken prior to revegetation and this action is considered to be completed (subsequent weed control to be addressed through monitoring and contingency actions – refer to CAMP 23–CAMP 35).	C (completed)																								
CAMP 19.	Table 2 (of CAMP) details herbicide application at the optimum application rate according to that manufacturers guidelines and seasonal timing for specific weed species.	Refer to Table 2 of CAMP	This table and the applications rates are considered to relate to the initial revegetation planting, which has been completed (refer to CAMP 18). The revegetation expert (Tranen) has advised that different weed species, other than what is listed in Table 2, have been recorded within the revegetation areas. Tranen has advised that it proposes to undertake different management techniques than outlined in Table 2 if ongoing weed control is required; the auditors accept this meets the intention of the CAMP, with subsequent weed management addressed through ongoing monitoring and contingency actions – refer to CAMP 23–CAMP 35 .	C (completed)																								
CAMP 20.	In addition to herbicide application, other practises to control weeds will include: <ul style="list-style-type: none"> Where necessary, apply a wetting agent in accordance with the herbicide manufacture's recommendations. Use a biodegradable marking dye during all spot spraying tasks. Prior to the application of weed control, install safety-warning signage around the perimeter of the area to be controlled. The warning signage shall include information on the control mechanism and timing and will remain in place until the area has dried. Only undertake spraying when the weather is calm, in order to minimise spray drift. Therefore, spraying will occur on days with a wind speed less than two kilometres per hour in accordance with the Department of Health WA Codes and Regulations. Spraying will avoid times when the plants are under stress such as very hot days and dry to dusty conditions to assist with maximum herbicide uptake. 	NA	Refer to CAMP 18.	C (completed)																								
CAMP 21.	Weed spraying will be undertaken to manage the abundance and spread of weed species into and within the revegetation area if required.	NA	Tranen advised Strategen that weed spraying is ongoing as required. A Tranen monitoring report indicates that weed control by herbicide spraying and manual removal occurred between October 2015 and February 2016 (R_006). A typical herbicide daily usage form has been provided demonstrating weed control has been undertaken (D_002). The revegetation area was not observed by the auditors to be weedy during the site inspection.	C																								
Section 4.2.5 Key Actions																												
CAMP 22.	The key target completion criteria to monitor the success of the revegetation efforts are specified in Table 3 (of CAMP).	Refer to Table 3 of CAMP	Action not auditable, the auditors recommend action is removed in subsequent audits. Refer to CAMP 24 and Section 5.2.2 for assessment against completion criteria.	Not auditable																								
CAMP 23.	Revegetation efforts will be undertaken and monitored for a period of three years from the commencement of the revegetation plantings.	For a period of three years from the commencement of the revegetation plantings.	Revegetation commenced in 2015, so monitoring is to occur until 2018. To date, monitoring has been undertaken in spring 2015 and autumn 2016 (R_006 and R_015).	C																								
CAMP 24.	If completion criteria are not met, further infill planting will be required. <table border="1" data-bbox="308 1352 1427 1677"> <thead> <tr> <th>Year after Planting</th> <th>Year 1</th> <th>Year 2</th> <th>Responsibility for Three Years Post-commencement of Works</th> </tr> </thead> <tbody> <tr> <td>Survival of planted seedlings</td> <td>90%</td> <td>70%</td> <td>Lend Lease</td> </tr> <tr> <td>Minimum plant density (stems/m2)</td> <td>5</td> <td>4</td> <td>Lend Lease</td> </tr> <tr> <td>Minimum plant diversity (% of original number of planted species in project area that have survived)</td> <td>70%</td> <td>70%</td> <td>Lend Lease</td> </tr> <tr> <td>Plant coverage (% area of visual ground cover measured by a botanist/revegetation consultant)</td> <td>25%</td> <td>50%</td> <td>Lend Lease</td> </tr> <tr> <td>Weeds coverage</td> <td>10% cover</td> <td>10% cover</td> <td>Lend Lease</td> </tr> </tbody> </table>	Year after Planting	Year 1	Year 2	Responsibility for Three Years Post-commencement of Works	Survival of planted seedlings	90%	70%	Lend Lease	Minimum plant density (stems/m2)	5	4	Lend Lease	Minimum plant diversity (% of original number of planted species in project area that have survived)	70%	70%	Lend Lease	Plant coverage (% area of visual ground cover measured by a botanist/revegetation consultant)	25%	50%	Lend Lease	Weeds coverage	10% cover	10% cover	Lend Lease	NA	The target completion criteria for year one was not achieved, as such further infill planting is required. Tranen advised planting is planned in winter 2016 (after the end of the audit period), and a seedling planting list (D_001) has been provided confirming the planned infill planting. The auditors note this table (and section heading) has been corrected by way of erratum table inserted the table into the plan, as Addendum 1 to the approved plan (C_003). The 'key actions' have been corrected to refer to 'completion criteria' as this is more accurate and reflects the context of this section of the plan. The survival target completion criterion has been clarified to account for both seedling planting and direct seeding. This change will be incorporated into subsequent audits.	C
Year after Planting	Year 1	Year 2	Responsibility for Three Years Post-commencement of Works																									
Survival of planted seedlings	90%	70%	Lend Lease																									
Minimum plant density (stems/m2)	5	4	Lend Lease																									
Minimum plant diversity (% of original number of planted species in project area that have survived)	70%	70%	Lend Lease																									
Plant coverage (% area of visual ground cover measured by a botanist/revegetation consultant)	25%	50%	Lend Lease																									
Weeds coverage	10% cover	10% cover	Lend Lease																									
Section 4.2.7 Monitoring and Reporting																												
CAMP 25.	Following planting, the areas of revegetation will be reviewed six weeks after planting and any new weed growth will be hand removed from 0.5 m around any new seedling.	Following planting, 6 weeks after planting	Planting in 2015 occurred up until September 2015 and the monitoring report indicates that weed control by herbicide spraying and manual removal occurred between October 2015 and February 2016 (R_006). A typical herbicide daily usage form has been provided demonstrating weed control has been undertaken (D_002).	C																								
CAMP 26.	The revegetation areas will be monitored biannually (including weed monitoring) each spring and autumn and maintained for a three year period after installation within each site.	Biannually (Spring and Autumn) for 3 years	Planting in 2015 occurred up until September 2015, within monitoring to continue biannually until 2018. Monitoring to date has occurred in Spring 2015 and Autumn 2016 (R_006 and R_015).	C																								

Audit code	Action	Timing	Evidence/comment	Conformance status
CAMP 27.	A monitoring report will be submitted to Lend Lease following each formal monitoring event, to assess if there are any issues requiring attention.	Following each formal monitoring event	Reports for each monitoring event were provided to Lendlease (R_015 and R_006).	C
CAMP 28.	Monitoring plot, of 5 m x 5 m will be established per revegetation area as well as one permanent photograph reference point at each monitoring plot.	NA	Tranen has advised that it has halved the size of the quadrats and doubled the number of quadrats required at the City of Wanneroo's request (R_015). Tranen advised that this has enabled some of the more narrow trails to be monitored. The total area monitored remains the same (i.e. 10 quadrats at 2.5m x 5 m rather than 5 quadrats at 5 m x 5 m). A permanent photograph reference point has also been established (R_015); however these have been located 5 m away from the quadrats rather than inside the quadrat to enable the subject matter to be captured (R_015). The auditors accept that although the monitoring configuration used is different to the stated action, what has been undertaken is consistent with the action's intent and suggest the change can be viewed as an improvement. This is because the monitoring layout has been tailored to site conditions to provide more 'useable' data that what might have been provided by keeping with the original configuration. For this reason the auditors conclude this item is conformant as it can be seen to be a 'beyond conformance' outcome.	C
CAMP 29.	Photographic records will be captured prior to construction and annually to qualitatively assess density, diversity and weed cover.	Prior to construction and annually	The auditors suggest that for this item the timing 'prior to construction' can be interpreted as equivalent to 'prior to revegetation' as no construction works are proposed within the Conservation Area and the key aspect of this requirement is to provide reference against pre-revegetation conditions to track success. Photographic evidence of the revegetation areas prior to revegetation is provided within Appendix 5 of the Tranen CAMP – Revegetation Plan (R_005). Photographic evidence is also provided in the spring 2015 annual monitoring report at permanent photograph reference point (R_015). The auditors note that the photographs taken prior to revegetation are not at the same location as the spring monitoring photographs which the auditors consider is likely the intent of the action (in line with CAMP 28); as such the auditors recommend future photographs are taken from the permanent reference points.	C
CAMP 30.	Monitoring and management activities that may be required in the two years include but are not limited to the following: • repairs and replacement of damaged or failed areas of revegetation to meet the completion criteria.	In the two years (biannual monitoring)	Two revegetation monitoring reports have been provided, from spring 2015 and autumn 2016 (R_006 and R_015). These reports detail the maintenance activities that have been undertaken, including weed control, tree guard maintenance and removal, site inspection for rabbits, installation of new temporary fence. A seedling planting list (D_001) has also been provided confirming infill planting in 2016.	C
CAMP 31.	• replacement of seedlings that have died to meet the completion criteria.	NA	Refer to CAMP 30.	C
CAMP 32.	• weed control.	NA	Refer to CAMP 30.	C
CAMP 33.	The first assessment in spring will assess the developing threats, the stabilisation of each area and the short-term survival of the seedlings and weed cover.	Spring	The revegetation monitoring report for spring 2015 (R_015) refers to threats, weed cover, stabilisation and survival of seedlings.	C
CAMP 34.	The second and third assessment would occur in the following autumn will determine if there are any losses over the dry summer period, and this will form the basis for the maintenance winter program.	In the following autumn	The revegetation monitoring report for autumn 2016 (R_006) refers to survival rates of seedlings. The autumn 2017 monitoring report is not yet required.	C
CAMP 35.	The emergence of summer weeds will also be assessed, so that control can be scheduled as required.	Summer	The revegetation monitoring report for autumn 2016 (R_006) refers to weed cover within each quadrat.	C

Section 4.3: Feral pests

Table 5: Feral Pest Key Actions

CAMP 36.	Install signage outlining that dogs are to be restrained in the CAMP area - only for the proposed paths that go through or near the revegetation areas.	NA	Lendlease advised that no paths are proposed in the Conservation Area so signage is not considered to be required at present.	NA
CAMP 37.	Observe for evidence of feral animals during the revegetation monitoring (biannually).	Biannually, during monitoring events	Two revegetation monitoring reports (R_006 and R_015) provided indicate that the revegetation sites were observed for evidence of feral animals.	C

Section 4.3.6 Monitoring and Reporting

CAMP 38.	The revegetation areas will be monitored biannually each spring and autumn and maintained for a three-year period after installation within each site.	Biannually (Spring and Autumn) for 3 years	Two revegetation monitoring reports have been provided (spring 2015 and autumn 2016) (R_006 and R_015).	C
CAMP 39.	Foxes, rabbits and feral cats as part of the revegetation monitoring program will also be monitored and if observed reported.	NA	The spring 2015 and autumn 2016 (R_006 and R_015) monitoring reports indicate that the revegetation sites were observed for evidence of feral animals. Invoices confirm the supply and install of rabbit netting and rabbit fence (F_001). An invoice for the baiting for rabbits was also provided (F_002). Evidence of rabbit activity was reported in the spring 2015 monitoring report (R_015). The autumn 2016 monitoring report advised that rabbits seem to have been eliminated from the revegetation areas (R_006). Tranen noted (31 August 2016) that the key threat to revegetation seedlings are kangaroos.	C
CAMP 40.	The monitoring report will be submitted to Lend Lease following each formal monitoring event, to assess if there are any issues requiring attention.	After monitoring event	The monitoring reports (R_015 and R_006) were submitted to Lendlease.	C

Section 4.4 Bushfire

Table 7: Bushfire Management Key Actions

CAMP 41.	No rubbish or vegetation will be burnt on site.	NA	Tranen Occupational Health, Safety and Environment Statement of Commitment (signed) within the <i>Alkimos Beach Foreshore and Conservation Area Rehabilitation Environment, Health and Safety Management Plan</i> (R_018) states the following commitment: "Not lighting fires on work sites, and carrying a fire extinguisher in each vehicle in case of vehicle fires." No evidence of any burning of vegetation or rubbish was observed during site inspection.	C
CAMP 42.	Reduced fuel levels in the revegetation area through weed control as required. This is in accordance with Section 4.2.6.	NA	The autumn 2016 monitoring report indicates that weed control by herbicide spraying and manual removal occurred between October 2015 and February 2016 (R_006).	C

Audit code	Action	Timing	Evidence/comment	Conformance status
CAMP 43.	The perimeter roads and dedicated pathways between the conservation POS area and the pathways act as key firebreak(s).	NA	Perimeter roads are currently under construction. Pathways are no longer proposed to be constructed in the conservation area.	C
CAMP 44.	Provide records of any fires in the conservation POS area to the City of Wanneroo / DFES.	NA	Management advice (31 August 2016). No fires recorded.	C
Section 4.4.6 Monitoring and Reporting				
CAMP 45.	The monitored of weeds will be undertaken biannually each spring and autumn and maintained for a three-year period.	Biannually (Spring and Autumn) for 3 years	Monitoring reports (R_006 and R_015) indicate that the revegetation sites were observed for weeds. The auditors' note the grammatical error has been corrected by way of erratum table inserted the table into the plan, as Addendum 1 to the approved plan (C_003).	C
CAMP 46.	The monitoring report will be submitted to Lend Lease following each formal monitoring event, to assess if there are any issues requiring attention.	After monitoring event	The monitoring reports (R_015 and R_006) were submitted to Lendlease.	C
Section 4.5 Erosion Table 9: Erosion Control Key Actions				
CAMP 47.	Placement of brush/mulch over revegetation areas that are have bare soil exposed to the elements.	NA	The 2015 audit (R_019) confirmed that mulch and brush was used to stabilise bare soil and therefore this action is considered to be completed. Tranen has noted that coir netting has been used as mulch in some areas to assist to prevent erosion of large exposed areas (P_008).	C (completed)
CAMP 48.	Undertake revegetation of bare / open areas of risk in the revegetation area.	NA	Appendix 4 of the Tranen CAMP – Revegetation Plan (R_005) shows the revegetation planned for areas that are bare and open. Revegetation of these areas confirmed during site visit (example areas shown in P_008, P_009).	C
CAMP 49.	Installation of temporary fencing in / around the revegetation area.	NA	The revegetation area was noted to have been fenced during the 2015 audit. The fencing was confirmed to still be present in the site inspection (P_002).	C
CAMP 50.	Installation of education signage informing the community / visitors beach of the revegetation areas - only on paths near or going through the rehabilitation area.	NA	Management advice (31 August 2016). Lendlease advised that no paths are proposed in the conservation area and; therefore, no public access is proposed. As such signage is considered by Lendlease as not required at present	C
Section 4.5.6 Monitoring and Reporting				
CAMP 51.	Monitoring of the erosion / open areas in the revegetation area will be biannually each spring and autumn and maintained for a three year period as part of the revegetation monitoring.	Biannually (Spring and Autumn) for 3 years	Revegetation monitoring reports from spring 2015 and autumn 2016 (R_006 and R_015) indicate that the revegetation sites were observed for erosion / open areas and where required additional brush material installed.	C
CAMP 52.	The monitoring report will be submitted to Lend Lease following each formal monitoring event, to assess if there are any erosion issue(s) requiring attention.	After monitoring event	The monitoring reports (R_015 and R_006) were submitted to Lendlease.	C
CAMP 53.	Lend Lease will monitor annually the integrity of the temporary fencing, pathways and signage until hand over to the City of Wanneroo.	Annually	Revegetation monitoring reports (R_006 and R_015) indicate that the revegetation sites were monitored for the integrity of fencing. R_006 noted that new fencing was installed across the front of the beach blowout area in the foreshore area to replace the previous one, which was the subject of vandalism as well as being partially buried by sand accretion. Fencing inspection reports have also been provided (D_006 and D_007).	C
Section 4.6 Access Management Table 11: Access Management Key Actions				
CAMP 54.	Control beach access routes and access points - only for the proposed paths that go through or near the revegetation areas.	Post construction	Not applicable (post construction).	NA
CAMP 55.	Undertake revegetation if required of tracks not required for pedestrian access, within the revegetation areas.	NA	Appendix 4 of the Tranen CAMP – Revegetation Plan (R_005) shows the revegetation planned for areas which includes the tracks not required. Revegetation of these areas was confirmed during the site visit (example areas shown in P_008, P_009).	C
CAMP 56.	Installation of temporary fencing in / around the revegetation area.	NA	Refer to CAMP 5 - in addition, Tranen advised that tracks being revegetated are physically blocked off at each end using large limestone blocks to prevent vehicles from accessing the revegetation areas. This was verified during the site visit (P_010).	C
CAMP 57.	Installation of education signage informing the community / visitors of access points and revegetation areas - only for the proposed paths that go through or near the revegetation areas.	NA	Management advice (31 August 2016). No paths are proposed in the conservation area; therefore, no public access is available and signage is not considered to be required at present	C
Section 4.6.6 Monitoring and Reporting				
CAMP 58.	Lend Lease will monitor annually the integrity of the temporary fencing, pathways and signage until hand over to the City of Wanneroo.	Annually until handover to the City of Wanneroo	Revegetation monitoring reports (R_006 and R_015) indicate that the revegetation sites were monitored for the integrity of fencing. R_006 noted that new fencing was installed across the front of the beach blowout area to replace the previous one, which was the subject of vandalism as well as being partially buried by sand accretion. Fencing inspection reports have also been provided (D_006 and D_007).	C
Section 5.0 Monitoring and Reporting Measures				
CAMP 59.	To satisfy Condition 3 of the EPBC Act approval, Lend Lease will publish a compliance report every 12 months from the commencement of the construction works.	Annually	Refer to condition 3 of EPBC Act approval.	C
CAMP 60.	The compliance report will contain a conservation area (CAMP) Carnaby's Black Cockatoo habitat revegetation section which will include the following: <ul style="list-style-type: none"> • revegetation completion criteria and weed monitoring • revegetation and weed contingency actions if required • erosion monitoring within the revegetation area • report observations of feral pests • temporary fencing, pathways and signage of the revegetation area • report any fire incidences in the foreshore and the response. 	Annually	The 2015 ACR (R_019) included this requirement. Refer to Section 5.2 of this 2016 ACR for these details.	C

Appendix 2
Compliance with Foreshore
Management Plan

Audit code	Action	Timing	Evidence/comment	Conformance status
Section 5.2.2 Carnaby's Black Cockatoo Habitat – Native Vegetation Species to be Used				
FMP 1.	A range of native plant species will be used in this revegetation program for the foreshore area. <i>The proposed native species to be used for rehabilitation purposes in the foreshore area are outlined in Appendix 2.</i>	NA	Appendix 6 of the Tranen FMP – Revegetation Plan (R_016) and the autumn 2016 monitoring report from Tranen (R_006) confirms that a range of indigenous plant species were used in the revegetation program. Not all species identified in Appendix 2 of the FMP have been planted; however, the auditors consider this action has been met as a mix of species from Appendix 2 including local species has been used as confirmed by the revegetation specialist.	C
FMP 2.	A range of overstorey and understorey species will be planted in order to provide diversity to the vegetation structure and habitat. The proposed native species to be used for rehabilitation purposes in the foreshore area are outlined in Appendix 2.	NA	Appendix 6 of the Tranen FMP – Revegetation Plan (R_016) confirms that a range of overstorey and understorey species are being used in revegetation.	C
Section 5.2.3.1 Plant Propagation				
FMP 3.	Tubestock will be propagated from provenance seed at an accredited nursery.	NA	Tranen previously advised that tubestock used in initial planting has been propagated from provenance seed collected from Shorehaven (approximately 2.5 km north of project area) and propagated by Plantrite (R_002). Tranen provided Delivery Notes from Plantrite to verify (R_031). Plantrite is an accredited NIASA nursery (http://www.plantrite.com.au/). In addition, a seedbank statement was provided by Tranen, including details relating to seed batches, total seed withdrawn to date and total available seed (R_035).	C
FMP 4.	Tubestock should be appropriately prepared and hardened and be free from pest and disease.	NA	The Tranen FMP Revegetation Plan (R_016) outlines the seedling propagation method being implemented. Tranen advised that as an accredited NIASA nursery, Plantrite provide tubestock to industry standards.	C
Section 5.2.3.2 Site Protection – Prior to Revegetation				
FMP 5.	A temporary fence will be positioned around the retained Carnaby's Black-Cockatoo habitat and revegetation area (1 ha).	NA	Fencing was sighted during the audit that separated the conservation areas from the foreshore areas (P_003). During the 2015 audit (R_003) it was confirmed that the fencing installed follows areas of previous disturbance such as access tracks to avoid any additional clearing for fence installation. This resulted in a small area of trees mapped as Carnaby's Black-Cockatoo habitat remaining outside the originally installed fencing (within both the conservation and foreshore areas). To rectify this minor exclusion, the revegetation contractors delineated the area through the installation of star pickets and flagging during the 2015 audit period, which the auditors accept as a form of fencing appropriate to the intention of the action (R_003). The Carnaby's Black Cockatoo habitat remains demarcated as bunting and star pickets are present (P_004).	C
FMP 6.	All construction activities will be restricted to the subdivision areas and will avoid this foreshore area.	NA	Site inspection confirmed construction activities are within subdivision areas and have avoided revegetation areas.	C
FMP 7.	Signage will be placed on the temporary fence(s) around the retained Carnaby's Black Cockatoo habitat and revegetation area to inform workers the area is prohibited for construction activities.	NA	Signage sighted during site inspection (P_001- P_002). Retained Carnaby's Black Cockatoo habitat was fenced and demarcated utilising bunting and star-pickets (P_004).	C
Section 5.2.3.3 Revegetation Site Preparation				
FMP 8.	To maximise the potential for revegetation success, the area(s) that are subject to revegetation will be prepared in the following manner: <ul style="list-style-type: none"> weed spraying commenced, rubbish and debris will be removed and disposed of appropriately if required. 	NA	The 2015 audit (R_019) confirmed that rubbish and debris were removed prior to revegetation and weed control had been undertaken prior to revegetation and therefore this action is considered to be completed.	C (completed)
FMP 9.	<ul style="list-style-type: none"> brushing and / or mulching if required may be used to assist stabilising soil in erosion prone locations as required. 	NA	The 2015 audit (R_019) confirmed that mulch and brush was used to stabilise bare soil and therefore this action is considered to be completed. Tranen has noted that coir netting has been used instead of mulch in some areas to assist to prevent erosion of large exposed areas (P_008).	C (completed)
Section 5.2.3.4 Revegetation Method				
FMP 10.	Revegetation species will be subdivided into four categories: 1. Beach grasses and herbaceous species adopted for the most exposed locations. 2. Semi-stable dune colonisers adapted to partially protected areas. 3. Plants of protected dunal situations. 4. Plants of protected well stabilised and vegetated areas.	NA	Strategen was informed by Tranen that species were planted based on their ability to withstand environmental conditions and position within native vegetation structure of the general area, in accordance with the four categories described in the FMP. Lendlease was previously assessed as in conformance with this action (R_019); however, an auditor recommendation was made that Post Activity Reports divide species planted into these four categories, or otherwise consider revision to the CAMP if such division is practicably difficult. A review of the Post Activity Reports (R_033 and R_034) completed in the 2015-2016 audit period found that the reports do not divide species into the four categories. Strategen notes that Lendlease remain conformant with this action; however the recommendation stands (to divide species into these categories within Post Activity Reports).	C
Section 5.2.3.5 Scheduling				
FMP 11.	Tube stock used in the revegetation program will be sourced from local accredited nurseries.	NA	Refer to FMP 3	C
FMP 12.	Planting will be carried out in winter; around June-July when the soil moisture content is high enough for optimum seedling growth without irrigation and after the existing weeds have germinated and have been sprayed.	In winter; around June-July	The Autumn Monitoring Report (R_006) states that site work commenced in July 2015 and was completed in September 2015. A 2016 planting list (D_001) and an invoice from Plantrite (D_008) have also been provided which demonstrates that seedlings were purchased in June 2016, with planting occurring after the autumn monitoring report. Tranen advised that planting was undertaken up until September in 2015 as the best results were found during mid September due to soil moisture and plants receiving more sunshine. The auditors conclude this conforms to the requirements of the action as it states "when the soil moisture content is high enough for optimum seedling growth without irrigation" and "around" June-July – suggesting there is flexibility in the plan to ensure optimum results.	C

Audit code	Action	Timing	Evidence/comment	Conformance status
FMP 13.	Each tube stock will be planted with a plastic guard to prevent rabbits feeding on plant stock and to protect from strong winds.	NA	It was noted that tubestock was planted with tree guards initially in the beach blowout area, however, more recent planting has been undertaken with coir netting to assist in preventing erosion of exposed areas (P_005; P_006). Tranen has advised that tree guards are not proposed to be used for future plantings as rabbits seem to have been eliminated from the revegetation areas (R_006) (also refer to FMP 15). In addition to this, the City of Wanneroo requires tree guards to be removed prior to summer to avoid them causing the plants to overheat (R_006). The auditors' note this requirement has been corrected by way of erratum table inserted the table into the plan, as Addendum 1 to the approved plan (C_003). The correction ensures consistency with other text in the plan section, which confirms that a plastic guard will be used, 'if required' (refer to FMP 15). On this basis and given the advice from Tranen, the auditors conclude the requirements of the plan have been met.	C
FMP 14.	Tube stock will mostly be planted at a density of two plants per m ² (as a minimum, species dependent) for rehabilitation.	NA	The 2015 audit (R_019) confirmed that plants were installed at a density of 2 plants/m ² and this action is considered to be completed (subsequent planting to be addressed through monitoring and contingency actions – refer to FMP 23–FMP 35).	C (completed)
FMP 15.	Rabbit guards will be used (if required) for tube stocks in the revegetation areas.	NA	Refer to FMP 13.	C
Section 5.2.3.6 Signage				
FMP 16.	To assist in preventing unauthorised access and trampling of revegetation efforts, additional signage may be installed	NA	Signage sighted during site inspection (P_001 and P_002).	C
Section 5.2.3.7 Watering				
FMP 17.	Some tube stock will be planted with tablets/water crystals during planting to help improve survival rates. The coastal plant species to be used in the revegetation of the foreshore area (as outlined in Appendix 2) are typically drought tolerant and therefore it is not anticipated these coastal natives will require irrigation or extensive hand watering.	NA	Post Activity Reports show that seedling were planted with fertilisers as required (R_033; R_034)	C
Section 5.2.4 Weed Management				
FMP 18.	If weeds are considered an issue within the revegetation area, a weed spraying program to eradicate weed species, prior to installation of seeds and seedlings will be implemented.	Each spring and autumn prior to initial revegetation	The 2015 audit (R_019) confirmed that weed control had been undertaken prior to revegetation and therefore this action is considered to be completed (subsequent planting to be addressed through monitoring and contingency actions – refer to FMP 23–FMP 35).	C (completed)
FMP 19.	Table 2 (of FMP) details the herbicide application at the optimum application rate according to the manufacturer's guidelines and seasonal timing for each weed species.	Refer to Table 2 of FMP	This table and the applications rates are considered to relate to the initial revegetation planting, which has been completed (refer to FMP 18). The revegetation expert (Tranen) has advised that different weed species, other than what is listed in Table 2, have been recorded within the revegetation areas. Tranen has advised that it proposes to undertake different management techniques than outlined in Table 2 if ongoing weed control is required; the auditors accept this meets the intention of the FMP, with subsequent weed management addressed through ongoing monitoring and contingency actions – refer to FMP 23–FMP 35.	C (completed)
FMP 20.	In addition to herbicide application, other practises to control weeds will include: <ul style="list-style-type: none"> • Where necessary apply a wetting agent in accordance with the herbicide manufacture's recommendations. • Use a biodegradable marking dye during all spot spraying tasks. • Prior to the application of weed control, Install safety warning signage around the perimeter of the area to be controlled. The warning signage shall include information on the control mechanism and timing and will remain in place until the area has dried. • Only undertake spraying when the weather is calm, in order to minimise spray drift. Therefore, spraying will occur on days with a wind speed less than two kilometres per hour in accordance with the Department of Health WA Codes and Regulations. • Spraying will avoid times when the plants are under stress such as very hot days and dry to dusty conditions to assist with maximum herbicide uptake. 	When wind speed is less than 2 km per hour	Refer to FMP 18.	C (completed)
FMP 21.	Weed spraying will be undertaken to manage the abundance and spread of weed species into and within the revegetation area if required.	NA	Tranen advised Strategen that weed spraying is ongoing as required. A Tranen monitoring report indicates that weed control by herbicide spraying and manual removal occurred between October 2015 and February 2016 (R_006). A typical herbicide daily usage form has been provided demonstrating weed control has been undertaken (D_002). The revegetation area was not observed by the auditors to be weedy during the site inspection (P_003).	C
Section 5.2.5 Key Actions				
FMP 22.	The key target completion criteria to monitor the success of the revegetation efforts are specified in Table 3 (of FMP).	Refer to Table 3 of FMP	Action not auditable, the auditors recommend action is removed in subsequent audits. Refer to FMP 24 and Section 5.2.2 for assessment against completion criteria.	Not auditable
FMP 23.	Revegetation efforts will be undertaken and monitored for a period of five years from the commencement of the revegetation plantings.	5 years post revegetation	Revegetation commenced in 2015, so monitoring is to occur until 2018. To date, monitoring has been undertaken in spring 2015 and autumn 2016, and the monitoring reports have been provided (R_006 and R_015).	C

Audit code	Action	Timing	Evidence/comment	Conformance status																								
FMP 24.	If completion criteria are not met, further infill planting will be required.	NA	The target completion criteria for year one was not achieved, as such further infill planting is required. Tranen advised planting was planned to be undertaken in winter 2016, and a seedling planting list (D_001) and invoice from Plantrite (D_008) has been provided confirming the planned infill planting. The auditors note this table (and section heading) has been corrected by way of erratum table inserted the table into the plan, as Addendum 1 to the approved plan (C_003). The 'key actions' have been corrected to refer to 'completion criteria' as this is more accurate and reflects the context of this section of the plan. The survival target completion criterion has been clarified to account for both seedling planting and direct seeding. This change will be incorporated into subsequent audits.	C																								
	<table border="1"> <thead> <tr> <th>Year after Planting</th> <th>Year 1</th> <th>Year 2</th> <th>Responsibility for T Years Post-commenceme Works</th> </tr> </thead> <tbody> <tr> <td>Survival of planted seedlings</td> <td>90%</td> <td>70%</td> <td>Lend Lease</td> </tr> <tr> <td>Minimum plant density (stems/m2)</td> <td>5</td> <td>4</td> <td>Lend Lease</td> </tr> <tr> <td>Minimum plant diversity (% of original number of planted species in project area that have survived)</td> <td>70%</td> <td>70%</td> <td>Lend Lease</td> </tr> <tr> <td>Plant coverage (% area of visual ground cover measured by a botanist/revegetation consultant)</td> <td>25%</td> <td>50%</td> <td>Lend Lease</td> </tr> <tr> <td>Weeds coverage</td> <td>10% cover</td> <td>10% cover</td> <td>Lend Lease</td> </tr> </tbody> </table>	Year after Planting	Year 1	Year 2	Responsibility for T Years Post-commenceme Works	Survival of planted seedlings	90%	70%	Lend Lease	Minimum plant density (stems/m2)	5	4	Lend Lease	Minimum plant diversity (% of original number of planted species in project area that have survived)	70%	70%	Lend Lease	Plant coverage (% area of visual ground cover measured by a botanist/revegetation consultant)	25%	50%	Lend Lease	Weeds coverage	10% cover	10% cover	Lend Lease			
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FMP 27.	A monitoring report will be submitted to Lend Lease following each formal monitoring event, to assess if there are any issues requiring attention.	Following each formal monitoring event	Monitoring reports for each event were provided to Lendlease (R_015 and R_006).	C																								
FMP 28.	Monitoring plot, of 5 m x 5 m will be established per revegetation area as well as one permanent photograph reference point at each monitoring plot.	NA	Tranen has advised that it has halved the size of the quadrats and doubled the number of quadrats required at the City of Wanneroo's request (R_015). Tranen advised that this has enabled some of the more narrow trails to be monitored. The total area monitored remains the same (i.e. 10 quadrats at 2.5m x 5 m rather than 5 quadrats at 5 m x 5 m). A permanent photograph reference point has also been established (R_015); however these have been located 5 m away from the quadrats rather than inside the quadrat to enable the subject matter to be captured (R_015). The auditors accept that although the monitoring configuration used is different to the stated action, what has been undertaken is consistent with the action's intent and suggest the change can be viewed as an improvement. This is because the monitoring layout has been tailored to site conditions to provide more 'useable' data that what might have been provided by sticking with the original configuration. For this reason the auditors conclude this item is conformant as it can be seen to be a 'beyond conformance' outcome.	C																								
FMP 29.	Photographic records will be captured prior to construction and annually to qualitatively assess density, diversity and weed cover.	Prior to construction and annually	The auditors suggest that for this item the timing 'prior to construction' can be interpreted as equivalent to 'prior to revegetation' as no construction works are proposed within the Conservation Area and the key aspect of this requirement is to provide reference against pre-revegetation conditions to track success. Photographic evidence of the revegetation areas prior to revegetation is provided within the Tranen FMP – Revegetation Plan (R_016). Photographic evidence is also provided in the spring 2015 annual monitoring report at permanent photograph reference point (R_015). The auditor notes that the photographs taken prior to revegetation are not at the same location as the spring monitoring photographs which the auditor considers is the likely intent of the action (in line with FMP 28) As such the auditors recommend future photographs are taken from the permanent reference points.	C																								
FMP 30.	Monitoring and management activities that may be required in the five years include but are not limited to the following: <ul style="list-style-type: none"> repairs and replacement of damaged or failed areas of revegetation to meet the completion criteria. 	In the five years (biannual monitoring)	Two revegetation monitoring reports have been provided from spring 2015 and autumn 2016 (R_006 and R_015). These reports detail the maintenance activities that have been undertaken, including weed control, tree guard maintenance and removal, site inspection for rabbits, installation of new temporary fence. A seedling planting list (D_001) has also been provided confirming infill planting in 2016.	C																								
FMP 31.	<ul style="list-style-type: none"> replacement of seedlings that have died to meet the completion criteria. 	NA	Refer to FMP 30.	C																								
FMP 32.	<ul style="list-style-type: none"> weed control if required. 	NA	Refer to FMP 30.	C																								
FMP 33.	The first assessment in spring will assess the developing threats. the stabilisation of each area and the short-term survival of the seedlings and weed cover.	Spring	The revegetation monitoring report for spring 2015 (R_015) refers to threats, weed cover, stabilisation and survival of seedlings.	C																								
FMP 34.	The second assessment in the following autumn will determine if there are any losses over the dry summer period, and this will form the basis for the maintenance winter program.	In the following autumn	The revegetation monitoring report for autumn 2016 (R_006) refers to survival rates of seedlings. The autumn 2017 monitoring report is not yet required.	C																								
FMP 35.	The emergence of summer weeds will also be assessed, so that control can be scheduled as required.	Summer	The revegetation monitoring report for autumn 2016 (R_006) refers to weed cover within each quadrat.	C																								
Section 5.2.8 Feral Pests																												
FMP 36.	Install signage outlining dogs are to be restrained in the revegetation area (not on the beach) - only for the proposed paths that go through or near the revegetation areas.	NA	Public access to FMP area was completed in December 2015 (R_006). Signage was noted at the parking areas at the start of public access way (P_011).	C																								
FMP 37.	Observe for evidence of feral animals during the revegetation monitoring (biannually).	Biannually, during monitoring events	Two revegetation monitoring reports (R_006 and R_015) provided indicate that the revegetation sites were observed for evidence of feral animals.	C																								

Audit code	Action	Timing	Evidence/comment	Conformance status
Section 5.2.8.6 Monitoring and Reporting				
FMP 38.	The revegetation areas will be monitored biannually each spring and autumn and maintained for a five year period after installation within each site.	Biannually (Spring and Autumn) for 3 years	Two revegetation monitoring reports have been provided (spring 2015 and autumn 2016) (R_006 and R_015).	C
FMP 39.	Foxes, rabbits and feral cats as part of the revegetation monitoring program will also be monitored and if observed reported.	NA	The spring 2015 and autumn 2016 (R_006 and R_015) monitoring reports indicate that the revegetation sites were observed for evidence of feral animals. Invoices confirm the supply and install of rabbit netting and rabbit fence (F_001). An invoice for the baiting for rabbits was also provided (F_002). Evidence of rabbit activity was reported in the spring 2015 monitoring report (R_015). The autumn 2016 monitoring report advised that rabbits seem to have been eliminated from the revegetation areas (R_006). Tranen noted (March 2016) that the key threat from fauna to revegetation seedlings are Kangaroos (R_006).	C
FMP 40.	The monitoring report will be submitted to Lend Lease following each formal monitoring event, to assess if there are any issues requiring attention.	After monitoring event	The monitoring reports (R_015 and R_006) were submitted to Lendlease.	C
Table 7: Bushfire Management Key Actions				
FMP 41.	No rubbish or vegetation will be burnt on site.	NA	Tranen Occupational Health, Safety and Environment Statement of Commitment (signed) within the <i>Alkimos Beach Foreshore and Conservation Area Rehabilitation Environment, Health and Safety Management Plan</i> (R_018) states the following commitment: "Not lighting fires on work sites, and carrying a fire extinguisher in each vehicle in case of vehicle fires." No evidence of any burning of vegetation or rubbish was observed during site inspection.	C
FMP 42.	Reduced fuel levels in the revegetation area through weed control as required and in accordance with Section 5.2.6.	NA	The autumn 2016 monitoring report indicates that weed control by herbicide spraying and manual removal occurred between October 2015 and February 2016 (R_006).	C
FMP 43.	The perimeter roads and dedicated pathways between the foreshore reserve and the pathways act as key firebreak(s).	NA	Perimeter roads are currently under construction.	C
FMP 44.	Provide records of any fires in the foreshore to the City of Wanneroo / DFES.	NA	Tranen advised that no fires have been recorded.	C
Section 5.2.9.6 Monitoring and Reporting				
FMP 45.	The monitored of weeds will be undertaken biannually each spring and autumn and maintained for a five year period.	Biannually (Spring and Autumn) for 5 years	Monitoring reports (R_006 and R_015) indicate that the revegetation sites were observed for weeds. The auditors' note the grammatical error has been corrected by way of erratum table inserted the table into the plan, as Addendum 1 to the approved plan (C_003).	C
FMP 46.	The monitoring report will be submitted to Lend Lease following each formal monitoring event, to assess if there are any issues requiring attention.	After monitoring event	The monitoring reports (R_015 and R_006) were submitted to Lendlease.	C
Section 5.2.10 Erosion: Table 9: Erosion Control Key Actions				
FMP 47.	Placement of brush/mulch over revegetation areas susceptible to potential erosion in the revegetation areas.	NA	The 2015 audit (R_019) confirmed that mulch and brush was used to stabilise bare soil and therefore this action is considered to be completed. Tranen has noted that coir netting has been used as mulch in some areas to assist to prevent erosion of large exposed areas (P_008).	C (completed)
FMP 48.	Undertake revegetation of bare/open areas of risk in the revegetation area.	NA	Appendix 4 of the Tranen FMP – Revegetation Plan (R_005) shows the revegetation planned for areas that are bare and open. Revegetation of these areas confirmed during site visit (example areas shown in P_008, P_009).	C
FMP 49.	Installation of temporary fencing in/around the revegetation area.	NA	The revegetation area was noted to have been fenced during the 2015 audit. The fencing was confirmed to still be present in the site inspection (P_002).	C
FMP 50.	Installation of education signage informing the community/visitors beach of the revegetation areas only on paths near or going through the rehabilitation area.	NA	Public access to FMP area was completed in December 2015 (R_006). Signage was noted at the parking areas at the start of public access way.	C
Section 5.2.10.6 Monitoring and Reporting				
FMP 51.	Monitoring of the erosion / open areas in the revegetation area will be biannually each spring and autumn and maintained for a five year period as part of the revegetation monitoring.	Biannually (Spring and Autumn) for 5 years	Revegetation monitoring reports from spring 2015 and autumn 2016 (R_006 and R_015) indicate that the revegetation sites were observed for erosion / open areas and where required additional brush material installed.	C
FMP 52.	The monitoring report will be submitted to Lend Lease following each formal monitoring event, to assess if there are any erosion issue(s) requiring attention.	After monitoring event	The monitoring reports (R_015 and R_006) were submitted to Lendlease.	C
FMP 53.	Lend Lease will monitor annually the integrity of the foreshore fencing, pathways and signage until hand over to the City of Wanneroo.	Annually	Revegetation monitoring reports (R_006 and R_015) indicate that the revegetation sites were monitored for the integrity of fencing. R_006 noted that new fencing was installed across the front of the beach blowout area to replace the previous one, which was the subject of vandalism as well as being partially buried by sand accretion. Fencing inspection reports have also been provided (D_006 and D_007).	C
Section 5.2.11 Beach access: Access Management Table 11: Beach Access Key Actions				
FMP 54.	Control beach access routes and access points only for the proposed paths that go through or near the revegetation areas.	Post construction	Not applicable (post construction).	NA
FMP 55.	Undertake revegetation if required of tracks not required for pedestrian access, within the revegetation areas.	NA	Appendix 4 of the Tranen FMP – Revegetation Plan (R_005) shows the revegetation planned for areas which includes the tracks not required. Revegetation of these areas was confirmed during the site visit (example areas shown in P_008, P_009).	C
FMP 56.	Installation of temporary fencing in/around the revegetation area.	NA	Refer to FMP 5, in addition, Tranen advised that tracks being revegetated are physically blocked off at each end using large limestone blocks to prevent vehicles from accessing the revegetation areas. This was verified during the site visit (P_010).	C

Audit code	Action	Timing	Evidence/comment	Conformance status
FMP 57.	Installation of education signage informing the community I visitors beach access points and revegetation areas - only for the proposed paths that go through or near the revegetation areas.	NA	Public access to the FMP area was completed in December 2015 (R_006). Signage was noted at the parking areas at the start of public access way.	C
5.2.11.6 Monitoring and Reporting				
FMP 58.	Lend Lease will monitor annually the integrity of the temporary fencing, pathways and signage until hand over to the City of Wanneroo.	Annually until handover to the City of Wanneroo	Revegetation monitoring reports (R_006 and R_015) indicate that the revegetation sites were monitored for the integrity of fencing. R_006 noted that new fencing was installed across the front of the beach blowout area to replace the previous one, which was the subject of vandalism as well as being partially buried by sand accretion. Fencing inspection reports have also been provided (D_006 and D_007).	C
Section 6: Monitoring and Reporting Measures				
FMP 59.	To satisfy Condition 3 of the EPBC Act approval, Lend Lease will publish a compliance report every 12 months from the commencement of the construction works.	Annually	Refer to condition 3 of EPBC Act approval.	C
FMP 60.	The compliance report will contain a foreshore Carnaby's Black-Cockatoo habitat revegetation section which will include the following: <ul style="list-style-type: none"> • revegetation completion criteria and weed monitoring • revegetation and weed contingency actions if required • erosion monitoring within the foreshore area • report observations of feral pests • temporary fencing, pathways and signage of the revegetation area • report any fire incidences in the foreshore and the response. 	Annually	The 2014 Compliance Report did not include this item as implementation of the FMP had not yet commenced. The 2015 ACR (R_019) included this requirement. Refer to Section 5.2.2 of this 2016 ACR for these details .	C

Appendix 3
Compliance with Precinct Landscape
and Rehabilitation Plan

Audit Code	Action	Timing	Evidence/comment	Conformance Status																		
Section 3 Planting schedule																						
Section 3.1 Replication of greater than 5ha of Carnaby's Cockatoo habitat																						
PLRP 1	<p>Condition 12(a) of EPBC 2011/5902 relates to replicating greater than 5 ha of Carnaby's Cockatoo habitat through planned future landscape and streetscape across the development. The Department of the Environment (DotE) and Lend Lease determined the approach to meet this requirement during the finalisation of the approval for the project in May / June 2012. It was decided that this requirement specifically relates to established trees on the Parks and Wildlife Plants for Carnaby's list using the ratio as follows:</p> <ul style="list-style-type: none"> - 500 trees: 1 ha of habitat <p>Therefore in order to replicate greater than 5 ha of Carnaby's Cockatoo habitat, the following ratio will be applied:</p> <ul style="list-style-type: none"> - 2,500 trees: 5 ha of habitat 	Revegetation - during revegetation	<p>The auditors reviewed the following evidence:</p> <ul style="list-style-type: none"> • Plant schedules (Park F [R_009]; Park B2 & C [R_011]) • 'issued for construction' drawings (Park F [R_008]; Park B2 & C [R_013]) • 'as constructed' drawing (Park U [R_012]) • <i>Trees and shrubs for Carnaby's Cockatoo - Tracking Spreadsheet (D_004)</i>. <p>The auditors were advised that no additional final greenstock reports had been prepared in the 2015-2016 audit period as no stages have been completed. In addition the 'as constructed' drawings may exhibit some differences to the final greenstock reports that identify the actual number of species and the type of species planted on the ground.</p> <p>A review of the project <i>Trees and shrubs for Carnaby's Cockatoo - Tracking Spreadsheet (D_004)</i> against Plant schedules, 'issued for construction' drawings and 'as constructed' drawings was undertaken by the auditors. The review found some inconsistencies between plant schedules and the drawings provided and the tracking spreadsheet. As the total number of trees planted during audit periods and total number of trees established was not clear to the auditors, further advice was sought from Lendlease. Following these discussions, Lendlease undertook a review of the tracking spreadsheet and a revised tracking spreadsheet was prepared (R_009). The review found that a number of species previously identified as Carnaby's Black Cockatoo foraging and potential breeding trees were not consistent with trees identified in the Parks and Wildlife Plants for Carnaby's List. This resulted in a reduction to the overall tracking total (D_004; D_009; revised tracking spreadsheet is provided in Appendix 5).</p> <p>The revision confirmed that Lendlease has yet to meet the 2500 tree target. The auditors have not found this to be a potential non-conformance due to the timeframe for implementation, based on handover to the City of Wanneroo following a minimum of two years of maintenance following practical completion. None of the applicable areas have been handed over to the City. The review undertaken of the tracking system discussed above indicates Lendlease is implementing improvements which should ensure an accurate count of habitat trees occurs.</p> <p>The auditors recommend Lendlease continue to review its tracking systems to ensure an accurate record of habitat trees, including consideration of site counts to verify the tracking spreadsheet.</p>	C (The total target of 2500 trees has not been met yet; however, Lendlease has yet to complete landscaping and, subject to continued planting and maintenance of reliable tracking systems, should be able to meet the target at completion)																		
PLRP 2	<p>Table 3 describes the objective, target and indicators to meet the above requirements:</p> <p>Table 3 Objectives, targets and indicators – replication of 5 ha of Carnaby's habitat</p> <table border="1" data-bbox="344 1178 1035 1383"> <thead> <tr> <th>Objective</th> <th>Target</th> <th>Performance indicator</th> </tr> </thead> <tbody> <tr> <td>Replicate greater than 5 ha of Carnaby's Cockatoo habitat within the project area</td> <td>Establish 2,500 Carnaby's Cockatoo habitat species across all four precincts by handover of final stage to the City with a 90% survival rate.</td> <td>Number of Carnaby's Cockatoo species identified in annual monitoring (number, species and location). 90% survival rate achieved.</td> </tr> </tbody> </table>	Objective	Target	Performance indicator	Replicate greater than 5 ha of Carnaby's Cockatoo habitat within the project area	Establish 2,500 Carnaby's Cockatoo habitat species across all four precincts by handover of final stage to the City with a 90% survival rate.	Number of Carnaby's Cockatoo species identified in annual monitoring (number, species and location). 90% survival rate achieved.	Revegetation - during revegetation	<p>As per PLRP 1, the auditors concluded that the target is on track to being met as Carnaby's Black Cockatoo species continue to be planted within the Alkimos Beach precincts, progressing toward achievement of the 2500 tree target.</p> <p>In regard to achieving the 90% survival rate, the auditors reviewed the available Practical Completion Certificates for Parks F and B2 and C (R_009 and R_010), which stated that all parks were constructed in accordance with as constructed drawings (R_008 and R_013). The Practical Completion reports reviewed as part of the audit (Park F, Park B2 and C) do not include species counts; however, the final 'as constructed' drawings show species planted within each park. Auditors reviewed the 'issued for construction' and 'as constructed' drawings (R_008; R_013; R_012) for this audit period against the tree and shrub tracking spreadsheets (D_004; D_009) to verify numbers and species planted. Although there were some discrepancies between these documents, as described in PLRP 1, the auditors assessed this action to be on track to be achieved by handover (subject to continued planting and accurate tracking).</p>	C (Refer to PLRP 1)												
Objective	Target	Performance indicator																				
Replicate greater than 5 ha of Carnaby's Cockatoo habitat within the project area	Establish 2,500 Carnaby's Cockatoo habitat species across all four precincts by handover of final stage to the City with a 90% survival rate.	Number of Carnaby's Cockatoo species identified in annual monitoring (number, species and location). 90% survival rate achieved.																				
PLRP 3	<p>Table 4 provides an indicative Precinct by Precinct breakdown of the Carnaby's Cockatoo tree targets (refer to Appendix C for a map) to track progress against the ultimate target described in Table 3, across all precincts. These are interim targets for monitoring purposes only; the total of 2,500 trees remains the ultimate compliance target.</p> <p>Table 4: Precinct breakdown of Carnaby's Cockatoo tree targets</p> <table border="1" data-bbox="344 1583 768 1797"> <thead> <tr> <th>Precinct</th> <th>Area (ha)</th> <th>Carnaby's Tree Target</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>50.30</td> <td>1,000</td> </tr> <tr> <td>2</td> <td>47.87</td> <td>500</td> </tr> <tr> <td>3</td> <td>32.51</td> <td>500</td> </tr> <tr> <td>4</td> <td>43.89</td> <td>500</td> </tr> <tr> <td>TOTAL</td> <td>2,500 (5 ha of habitat)</td> <td></td> </tr> </tbody> </table>	Precinct	Area (ha)	Carnaby's Tree Target	1	50.30	1,000	2	47.87	500	3	32.51	500	4	43.89	500	TOTAL	2,500 (5 ha of habitat)		Revegetation - during planning	As per PLRP 1, the auditors concluded that the target is on track to being met as Carnaby's Black Cockatoo species continue to be planted within the Alkimos Beach precincts, progressing toward achievement of the 2500 tree target.	C (Refer to PLRP 1)
Precinct	Area (ha)	Carnaby's Tree Target																				
1	50.30	1,000																				
2	47.87	500																				
3	32.51	500																				
4	43.89	500																				
TOTAL	2,500 (5 ha of habitat)																					

Audit Code	Action	Timing	Evidence/comment	Conformance Status
PLRP 4	For each landscaping stage of the development an indicative Plant Schedule is prepared and updated as required and will be used as a guide to check that planting numbers are trending toward compliance with the overall tree target.	Revegetation - during planning	Staging Plans (Park F [R_009]; Park B2 and C [R_013]; Park U [R_014]) were compared against the 'issued for construction' and 'as constructed' drawings for each park (Park F [R_008]; Park B2 and C [R_013]; Park U [R_012]), which show that the species lists and numbers are tracking toward meeting the overall tree target. The auditors did note that there were some discrepancies between the tracking spreadsheet (D_004; D_009) and the 'issued for construction' and 'as constructed' drawings; however, the auditors assessed this action to be on track to be achieved by handover (subject to continued planting and accurate tracking). Lendlease have reviewed the greenstockreports for all previous audit periods and the tree and shrubs tracking spreadsheet to reflect what has been planted to date (revised tracking spreadsheet is provided in Appendix 5).	C
PLRP 5	All future planting schedules and landscape designs will be in accordance with the principles in the PLRP.	Revegetation - during planning	The auditors reviewed Staging Plans (Plant schedules) prepared to date (Park F [R_009]; Park B2 and C [R_013]; Park U [R_014]; 2014-2015 plans [R001]) which showed that Staging Plans prepared to date are in line with the PLRP (Park F [R_009]; Park B2 and C [R_013]; Park U [R_014]).	C
Section 3.2 Target 50% of landscape and streetscape for Carnaby's habitat				
PLRP 6	Condition 12 (b) of EPBC 2011/5902 requires that at least 50% of plantings of trees and shrubs in streetscape and landscape planting must consist of plant species known to be primary feeding plants for Carnaby's Cockatoo. The 50% target applies across all precincts across the project area.	Revegetation - during planning	As per PLRP 1, it was noted that there are some discrepancies with the total number of Carnaby's species within the <i>Trees and shrubs for Carnaby's Cockatoo - Tracking Spreadsheet</i> (D_004; D_007) and the 'as constructed' drawings. Lendlease have reviewed the greenstockreports for all previous audit periods and the tree and shrubs tracking spreadsheet to reflect what has been planted to date (revised tracking spreadsheet is provided in Appendix 5). The current tracking spreadsheet (D_009) indicates the 50% target has yet to be met; however, Lendlease has not yet completed landscaping works; as such the auditors consider Lendlease remains on track to meet the 50% target (subject to continued planting and accurate tracking).	C (The total target of 50% Carnaby's species trees and shrubs has not been met yet; however, Lendlease has yet to complete landscaping, and subject to continued planting and maintenance of reliable tracking systems, should be able to meet the target at completion)
PLRP 7	Table 5 includes objectives, targets and indicators for achieving Condition 12(b) of EPBC 2011/5902. Table 5: Objectives, targets and indicators – 50% Carnaby's Cockatoo planting target Objective Target Performance	Revegetation - during planning	Refer to PLRP 6, the auditors concluded that the target is on track to being met as Carnaby's Black Cockatoo tree and shrub species continue to be planted within the Alkimos Beach precincts, progressing toward achievement of the 50% target. As per PLRP 2, in regard to achieving the 90% survival rate, the auditors assessed this action to be on track to be achieved by handover.	C (Refer to PLRP 6)
PLRP 8	Appendix C details the locations of parks across the project area. Appendix D provides a record of the number of Carnaby's Cockatoo planted in the first stages of the project. Appendix E sets indicative planting targets for parks across the whole project area, including number of Carnaby's Cockatoo species to be planted. It is indicative only, to guide tracking of progress against the objective and target in Table 5 and will be updated to reflect revised planting numbers across the project area, throughout project implementation.	Revegetation - during planning	The Precinct Plan (I_001) identifies precinct planting areas. There are some inconsistencies with the size of the planting areas identified in the proposed Carnaby's Planting targets (D_005; Appendix E of the PLRP) and those identified in the Precinct Plan. The inconsistencies do not constitute a non-conformance with this action as the inconsistencies do not hinder progression toward meeting the PLRP targets; however, it is recommended that the Precinct Plan and Planting targets are updated to ensure consistency in the total areas within each park area.	C
PLRP 9	The landscape strategy for the project acknowledges that revegetated areas must provide a diversity of species, including both Carnaby's Cockatoo species and other species which occur naturally in the area. If during revegetation activities the Plants for Carnaby's list does not provide a great enough diversity of species that are suitable to a coastal environment and, endorsed by the City, Lend Lease will investigate opportunities to include a greater diversity species on that list in consultation with Parks and Wildlife.	Revegetation - during planning	Lendlease advised that the landscaping strategy is currently being updated in consultation with the City of Wanneroo and Parks and Wildlife, including additional Carnaby's Black Cockatoo species to those included in the Plants for Carnaby's List. The auditors concluded that Lendlease are conformant with this action.	C

Section 4 Monitoring, Reporting and Review

Audit Code	Action	Timing	Evidence/comment	Conformance Status
PLRP 10	Monitoring, reporting and review of targets will be undertaken in accordance with parameters described in Table 6. <i>Key monitoring actions include:</i> <ul style="list-style-type: none"> Review landscape plans, plant orders and planting schedules to determine number and type of species planted (i.e. Carnaby's Cockatoo species) (annually) Record the species, location and number of Carnaby's Cockatoo plants installed during the planting phase (during planting) Monitor success of species planted (annually). 	NA	Audit findings for each key monitoring action is summarised below: <ul style="list-style-type: none"> landscape plans, plant orders and planting schedules are reviewed to determine the number and type of species planted and survival rate against the proposed species to be planted (D_005), which are summarised in the 'issued for construction' and 'as constructed' drawings (R_008; R_013; R_012). The auditors noted that the tracking spreadsheet does not include all Carnaby's Black Cockatoo species planted; and recommend a review is undertaken to ensure reliability and accuracy the location of species and number of species is summarised in 'issued for construction' and 'as constructed' drawings (R_008; R_013; R_012) and practical completion certificates (R_009; R_010) the success of species is monitored as part of practical completion certificates (R_009; R_010) which state that parks F and B2 and C have been constructed the auditors note that there are some discrepancies between the tracking spreadsheet (D_009) and the 'as constructed' drawings and recommend a review is undertaken as per the first dot point above. <p>The auditors also note that the success of species is monitored as part of practical completion; however, success monitoring is not undertaken annually in accordance with the final monitoring action. Lendlease is; therefore, potentially non-conformant with this action.</p> <p>Lendlease has advised that survival rates will be monitored annually from the next audit period.</p>	PNC
Section 4.1 Survival targets				
PLRP 11	For all planting to occur within parks and streetscape, the survival target is 90% or greater.	During Construction	Refer to PLRP 2.	C
PLRP 12	Following the completion of a landscaping stage (POS or streetscape), the landscape architects visit the area on behalf of Lendlease to ensure the specifications have been met by the contractor (including the planting of specified Carnaby's Black Cockatoo species as documented within the approved design drawings).	During Construction	The auditors reviewed the available Practical Completion Certificates for Parks F and B2 and C (R_009 and R_010) which stated that all parks were constructed in accordance with as constructed drawings (R_008 and R_013). The Practical Completion reports do not include species counts, however, species numbers are included in plant schedules and as constructed drawings, and this is taken to meet the requirement.	C
PLRP 13	Prior to handover to the City, Lendlease will ensure the 90% plant survival target is met to enable the handover to the City to be finalised.	During Construction	Refer to PLRP 2.	C
Section 4.2 Timeframes for the implementation				
PLRP 14	Handover to the City will be undertaken a minimum of 2 years after practical completion.	24 months following planting	Management advice 31 August 2016. No parks have been handed over the CoW to date.	NA
PLRP 15	Following handover, maintenance of streetscapes and POS will be managed by the City.	On-going following handover	Management advice 31 August 2016. No parks have been handed over the CoW to date.	NA
PLRP 16	Handover of planting across the site will be staged in accordance with the park and street delivery. All parks and streets are expected to be handed over by the completion of the project. Refer to the indicative precinct plan in Appendix C for the breakdown of park and street delivery across the Estate.	On completion of each area During Construction	Management advice 31 August 2016. No parks have been handed over the CoW to date.	NA
Section 4.2.1 City of Wanneroo process				
PLRP 17	For each stage of landscaping (streetscape or POS) a detailed design is submitted to the City for their review and approval.	Pre-construction	Action assessed as completed during 2014 compliance audit (R_001).	C (completed)
PLRP 18	The City assesses each design to ensure it complies with their standards and confirms that ultimately the City will be able to manage the area following the required 2 year maintenance period.	Handover	Management advice 31 August 2016. No parks have been handed over the CoW to date.	NA
PLRP 19	As the management of the park in the long term is undertaken by the City, a City officer visits the area prior to handover of a stage to the City, to ensure it meets the specifications (and therefore planting of specified Carnaby's Black Cockatoo species as documented within the approved design drawings) and survival targets.	Prior to handover	Management advice 31 August 2016. No parks have been handed over the CoW to date.	NA
PLRP 20	Once a stage of landscaping is handed over to the City, the requirements of the Condition for that park and streetscape are considered complete. The City accepts no liability for the requirements of the conditions of the EPBC Act approval and will not report on the ongoing management of the Carnaby's species.	Handover	Management advice 31 August 2016. No parks have been handed over the CoW to date.	NA
PLRP 21	For the ROS, the City has reviewed and supported the State level Foreshore Management Plan. For the Conservation POS, the City has reviewed and approved the Vegetation and Fauna Management Plan. These plans will deliver on the Carnaby's targets set in this PLRP and include the management plans required by Condition 10 and 11 of the approval.	Prior to approval of management plans	Noted. Recommend removal from future audit tables as the 'action' is more a note and not auditable	Not auditable.
PLRP 22	Due to the City requirements streetscape works in residential streets will be completed at the time of the front yard landscaping by the landscape contractor. In this instance is incumbent on the landscape contractor to ensure that planting schedules meet the PLRP requirements.	Prior to approval of management plans	The auditors reviewed Staging Plans (Plant schedules) prepared to date (Park F [R_009]; Park B2 and C [R_013]; Park U [R_014]; 2014-2015 plans [R001]) which showed that Staging Plans prepared to date are in line with the PLRP (Park F [R_009]; Park B2 and C [R_013]; Park U [R_014]).	C
Section 4.3 Restriction on clearing				
PLRP 23	Clearing within the 'no clearing area' on Attachment C of EPBC 2011/5902 is not permitted to commence until the Management Plans required under Condition 10-12 of the approval are approved.	Prior to approval of management plans	Action assessed as completed during 2014 compliance audit (R_001).	C (completed)

Audit Code	Action	Timing	Evidence/comment	Conformance Status
Section 4.4 Annual reporting requirements				
PLRP 24	Lendlease is required to submit an ACR in accordance with Condition 3 of EPBC 2011/5902, as detailed below: <i>'Within three months of every 12 month anniversary of the commencement of the action, the person taking the action must publish a report on their website addressing compliance with each of the conditions of this approval, including implementation of any management plans as specified in the conditions. Documentary evidence providing proof of the date of publication and non-compliance with any of the conditions of this approval must be provided to the Department at the same time as the compliance report is published. Each management plan must be published on the website for the length of the approval.'</i>	Annually	Refer to condition 3.1 in Table 5 of the main report.	C
PLRP 25	In accordance with the PLRP the following details are required to be included in the ACR: 1. An update of any completed stages or tendered landscape for future stages. 2. Report against planting targets and landscape survival targets. 3. Update of completed tree planting for each stage. 4. Amendments to precinct and staging plans 5. Updated plant schedules for each stage of the development.	Annually	The 2015 Annual Compliance Report (R_002) provides a summary of the current status of the project, including works undertaken during the audit period and practical completion. Future planting schedules were provided in Appendix 4 of the report and tracking against the rehabilitation targets was provided in Appendix 5.	C

Appendix 4

Plant schedules

**SOUTH ALKIMOS PLANT SCHEDULES
PARK F ONLY**

CODE	BOTANICAL NAME	COMMON NAME	INSTALL SIZE	MATURE SIZE (m)	* SPACING m2	NUMBER
TREES - POS						
ALL fra	<i>Allocasuarina fraseriana</i>	Western Sheoak	45L	8 x 6	As Shown	23
AGO fle	<i>Agonis flexuosa</i>	WA Peppermint	100L	10 x 7	As Shown	32
CAL pre	<i>Callitris preissii</i>	Rottnest Island Pine	100L	8 x 6	As Shown	47
CAS obe	<i>Casuarina obesa</i>	Swamp Sheoak	100L	8 x 6	As Shown	26
EUC gom	<i>Eucalyptus gomphocephala</i>	Tuart	400L	30 x 8	As Shown	22
EUC vic	<i>Eucalyptus victrix</i>	Little Ghost Gum	200L	40 x 8	As Shown	9
LIQ sty	<i>Liquidambar styraciflua</i>	American sweetgum	200L	20 x 8	As Shown	8
MAC int	<i>Macadamia integrifolia</i>	Macadamia Nut	200L	20 x 8	As Shown	15
MEL qui	<i>Melaleuca quinquenervia</i>	Broad-leaved Paperbark	200L	10 x 3	As Shown	18
MEL lan	<i>Melaleuca lanceolata</i>	Rottnest Island Teatree	100L	15 x 3	As Shown	31
TIP tip	<i>Tipuana tipu</i>	Rosewood	200L	20 x 8	As Shown	14
XAN pre	<i>Xanthorrhoea preissii</i>	Grass Tree	200L	3 x 1	As Shown	20
TOTAL						242
GROUNDCOVERS/SHRUBS - POS						
MIX 2						326
DIA rev	<i>Dianella revoluta</i>	Revelation	130mm	0.5 x 0.5	500mm	
CHA unc	<i>Chamaelucium uncinatum</i>	My Sweet Sixteen	130mm	1.5 x 2	500mm	
ERE gla	<i>Eremophila glabra</i>	Kalbarri Carpet prostrate	130mm	2 x 1.5	500mm	
GRE obt	<i>Grevillea obtusifolia</i>	Gingin Gem	130mm	0.25 x 3	500mm	
MIX 3						5
CON can	<i>Conostylis candidans</i>	Grey cottonheads	130mm	0.3 x 0.5	500mm	
MEL nes	<i>Melaleuca nesophila</i>	Little Nessie	130mm	2 x 3	500mm	
MIX 4						21
ERE kal	<i>Eremophila glabra</i> 'Kalbarri Red'	Kalbarri Red	130mm	0.5 x 1.2	500mm	
MIX A						1508
ACA las	<i>Acacia lasiocarpa</i>	Panjang - Dune Mosses	130mm	0.5 x 1	500mm	
BAN ash	<i>Banksia ashbyi</i> Dwarf	Dwarf Ashby's Banksia	130mm	1.5 x 1.5	500mm	
CHA pin	<i>Chamaelucium uncinatum</i> 'Petite Pink'	Petite Pink	130mm	0.2 x 1	500mm	
CON can	<i>Conostylis candidans</i>	Grey cottonheads	130mm	0.3 x 0.5	500mm	
ERE niv	<i>Eremophila nivea</i>	'Spring Mist'	130mm	1 x 1	500mm	
LEU bro	<i>Leucophyta brownii</i>	Cushion Bush	130mm	1 x 1.2	500mm	
PIM fer	<i>Pimelea ferruginea</i>	Melissa Anne	200mm	0.35 x 0.4	500mm	
RHA bac	<i>Rhagodia baccata</i>					
MIX B						2136
ATR cin	<i>Atriplex cinerea</i>	Grey saltbush	130mm		500mm	
ATR isa	<i>Atriplex isatidea</i>	Coast Saltbush	130mm	1 x 1	500mm	
FRA pau	<i>Frankenia pauciflora</i>	Sea-heath	130mm	0.6 x 2	500mm	
GRE cri	<i>Grevillea crithmifolia</i> Prostrate	Grevillea	130mm	0.6 x 3	500mm	
LEP gla	<i>Lepidosperma gladiatum</i>	Coast Sword-Sedge	130mm	1.5 x 1.5	500mm	
MEL hue	<i>Melaleuca huegellii</i>	Chenille Honeymyrtle	130mm	1.5 x 1.5	500mm	
SCA cra	<i>Scaevola crassifolia</i>	Thick-leaved Fan-flower	130mm	1 x 1	500mm	
MIX C						747
ACA pre	<i>Acanthocarpus preissii</i>	Prickle Lily	130mm	0.6 x 2	500mm	
CAR vir	<i>Carpobrotus virescens</i>	Coastal Pigface	130mm	0.5 x 1.5	500mm	
GAS cap	<i>Gastrolobium capitatum</i>		130mm	0.5 x 1.5	500mm	
HAK tri	<i>Hakea trifurcata</i>	Two-Leaf Hakea	130mm	3 x 3	500mm	
MYO ins	<i>Myoporum insulare</i>	Coastal Rambler	130mm	0.8 x 2	500mm	
SCA cra	<i>Scaevola crassifolia</i>	Thick-leaved Fan-flower	130mm	1 x 2	500mm	
TEM ret	<i>Templetonia retusa</i>	Cocky's tongues	130mm	1 x 3	500mm	
MIX D						1502
DIA rev	<i>Dianella revoluta</i>	Revelation	130mm	0.5 x 0.5	500mm	
GRE cri	<i>Grevillea crithmifolia</i> Prostrate	Grevillea	130mm	0.6 x 3	500mm	
HIB spi	<i>Hibbertia spicata</i>		130mm	0.5 x 2	500mm	
MEL sys	<i>Melaleuca systena</i>	Coastal Honeymyrtle	130mm	2 x 2	500mm	
LEP gla	<i>Lepidosperma gladiatum</i>	Coast Sword-Sedge	130mm	1.5 x 1.5	500mm	
SPI hir	<i>Spinifex hirsutus</i>	Hairy Spinifex	130mm	0.8 x 1.5	500mm	
SPI lon	<i>Spinifex longifolius</i>	Beach Spinifex	130mm	1 x 2	500mm	
WES dam	<i>Westringia dampieri</i>	Shore westringia	130mm	0.5 x 2	500mm	
MIX E						1620
CAL qua	<i>Calothamnus quadrifidus</i>	One-sided Bottlebrush	130mm	2 x 1.5	500mm	
CLE lin	<i>Clematis linearifolia</i>	Fine-leaved Clematis	130mm	4 x 4	500mm	
SPY glo	<i>Spyridium Globulosum</i>	Paperback	130mm	1.5 x 1	500mm	
MIX F						1632
CAR app	<i>Carex appressa</i>	Tall Sedge	130mm	1 x 1	500mm	
FIC nod	<i>Ficinia nodosa</i>	Knobby Club-rush	130mm	0.6 x 0.8	500mm	
LEP eff	<i>Lepidosperma effusum</i>	Spreading Sword-sedge	130mm	0.8 x 0.6	500mm	
GRE the	<i>Grevillea thelemanniana</i>	Spider-net Grevillea	130mm	0.8 x 1.5	500mm	
JUN kra	<i>Juncus kraussii</i>	Sea Rush	130mm	1 x 1	500mm	
JUN pal	<i>Juncus pallidus</i>	Giant Rush Wiwi	130mm	1.7 x 2	500mm	
SPO vir	<i>Sporobolus virginicus</i>	Marine Couch	130mm		500mm	
m2 TOTAL						9497

- NOTES:**
- All trees to be certified and compliant to City's standards. Photographs shall be supplied by Arborist/ Nursery prior to construction/ planting.
 - Ensure Crowns of all grasses are kept clear of all mulch.
 - All planting to road verge to be setback min. 600mm from back of kerb. Refer to planting plans.
 - Refer Specification for all soil and mulch requirements.
 - Root Barrier will not be used in the streetscapes. Only specifically approved barriers can be installed to trees eg. where planted within 0.9m of sub-surface services or hardstand areas.
 - All turf mounding to be maximum 1:6 grade.
 - All planted slopes to be maximum 1:4 grade.
 - Plant numbers on plan override those listed in Schedule. Should discrepancies occur, the contractor shall install the number of species shown on the plan.
 - All grasses must have reached substantial growth prior to installation - young stock not suitable for the site installation will be rejected
 - * Spacing between plants within the garden beds
 - The above are shrub and groundcover plant counts are the same 130mm pot size.
 - All species installed must be as per above schedule. Any variations from this schedule must be approved in writing prior to installation. Should incorrect species be
 - Lepidosperma gladiatum shall not be planted on verges as it grows >0.6m at maturity and will block sight line requirements requirements. Specific City of Wanneroo Condition.
 - Lomandra species shall not be planted next to pedestrian footpaths due to maintenance problems for the City of Wanneroo.
 - Species shown in mixes are to be planted randomly and in groupings of 3 or 5 of one species only.

FOR CONSTRUCTION

REFERENCES	DRAWING ID	REV	DATE	CONSULTANTS	NOTES	AMENDMENTS	APPROVED	CLIENT	SCALE	DRAWN
CONSULTANT	60160base		2013.07.08	CIVIL ENGINEERS	THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH AECOM PTY LTD PREPARED SPECIFICATIONS AND DETAILS. SHOULD A CONFLICT EXIST, ADVICE AND DIRECTION SHOULD BE SOUGHT FROM AECOM PTY LTD PRIOR TO UNDERTAKING ANY CONSTRUCTION WORKS. ALL LEVELS SHOWN ARE IN METRES AUSTRALIAN HEIGHT DATUM, AND DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED. ALL INFORMATION RELATING TO ARCHITECTURAL, CIVIL, STRUCTURAL SERVICES AND OTHER WORKS AS REPRESENTED ON THIS DRAWING AS PREPARED BY AECOM PTY LTD IS FOR AECOM REFERENCE AND COORDINATION PURPOSES ONLY. ALL DOCUMENTATION TO THESE AND OTHER WORKS OUTSIDE THE SCOPE DEFINED FOR AECOM SHOULD BE REFERRED TO THE RELEVANT CONSULTANTS' DRAWINGS AND SPECIFICATION FOR DETAILS. THIS DRAWING IS CONFIDENTIAL AND SHALL ONLY BE USED FOR THE PURPOSES OF THIS PROJECT.	A	03.07.2014	ISSUE FOR COMMENTS	FM	WW
CIVIL ENGINEER	6016050base		2013.07.16	SURVEYOR		B	10.07.2014	ISSUE FOR REVIEW	FM	
CIVIL ENGINEER	601607base		2014.01.21			C	28.07.2014	ISSUE FOR INFORMATION OF GRACEFUL BOULEVARD ONLY	FM	
SURVEYOR	120315-Alkimos Beach Mapping		12.03.15			D	29.08.2014	ISSUE FOR COUNCIL APPROVAL	FM	
CIVIL ENGINEER	Stage 7 Final Earthworks Ascon Rev C-2011		2014.07.03			E	13.11.2014	ISSUE FOR TENDER	FM	
					F	17.11.2014	ISSUE FOR TENDER/AMENDMENT	FM		
					G	27.01.2015	ISSUE FOR CONSTRUCTION	FM		

**SOUTH ALKIMOS BEACH
STAGE 7**

**LANDSCAPE
PLANT SCHEDULE**



GPO BUILDING, 3 FORREST PLACE
PERTH WA 6000 AUSTRALIA
T +61 (08) 6208 0000
F +61 (08) 6208 0999

DRAWING NUMBER
60238806-ST7-LA-DRG-CD-0003

PROJECT NUMBER
60238806

LEND LEASE

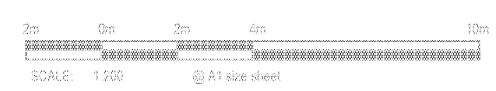
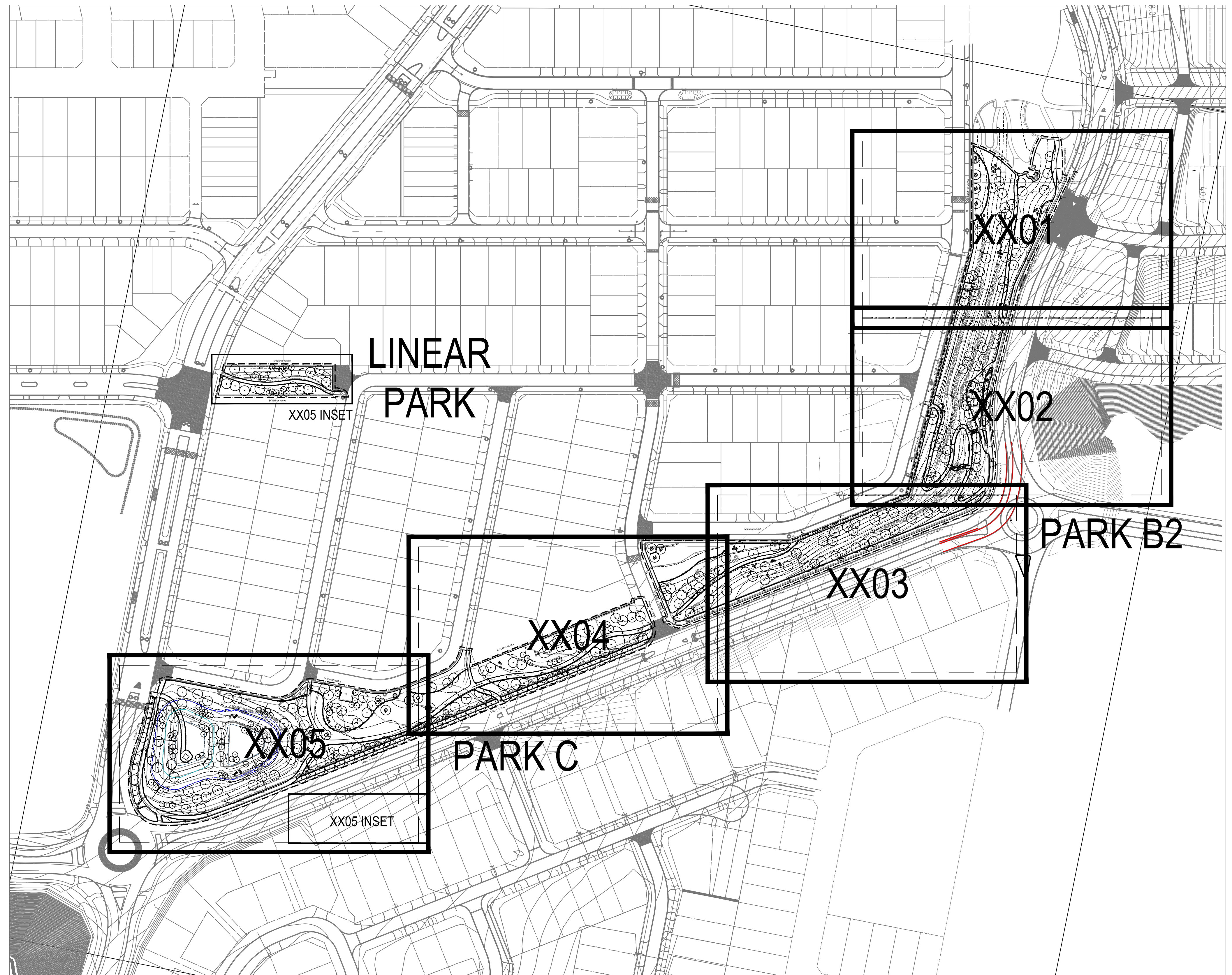
ALKIMOS BEACH PARK B2 & C

LANDSCAPE WORKS

ISSUE FOR CONSTRUCTION

Drawing Register

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60238806-PARK2B&C-LA-DRG-CD-0002	LEGEND
60238806-PARK2B&C-LA-DRG-CD-0003	PLANT SCHEDULE
60238806-PARK2B&C-LA-DRG-CD-0201	SURFACE FINISHES PLAN
60238806-PARK2B&C-LA-DRG-CD-0202	SURFACE FINISHES PLAN
60238806-PARK2B&C-LA-DRG-CD-0203	SURFACE FINISHES PLAN
60238806-PARK2B&C-LA-DRG-CD-0204	SURFACE FINISHES PLAN
60238806-PARK2B&C-LA-DRG-CD-0205	SURFACE FINISHES PLAN
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AS CONSTRUCTED



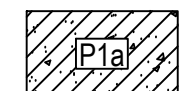
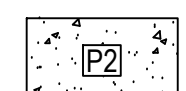
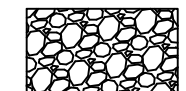
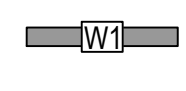
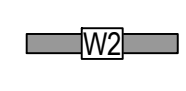
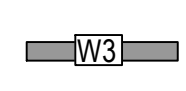


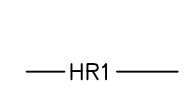



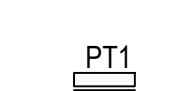






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REFERENCES	DRAWING ID	REV	DATE	CONSULTANTS	NOTES	AMENDMENTS	APPROVED	CLIENT	SCALE	DRAWN
CIVIL ENGINEER 6016 Cad	6016base		2013.05.16	CIVIL ENGINEERS COSSILL & WEBLEY	THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH AECOM PTY LTD PREPARED SPECIFICATIONS AND DETAILS. SHOULD A CONFLICT EXIST, ADVICE AND DIRECTION SHOULD BE SOUGHT FROM AECOM PTY LTD PRIOR TO UNDERTAKING ANY CONSTRUCTION WORKS. ALL LEVELS SHOWN ARE IN METRES AUSTRALIAN HEIGHT DATUM, AND DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.	A	FM	LEND LEASE	NA	TL
CIVIL ENGINEER 601601base		2013.07.16	SURVEYOR WHELANS	B		FM				
CIVIL ENGINEER 601601base		2013.04.24			0	FM				
SURVEYOR 120315-alkimos Beach Mapping					1	FM				
					2	FM				
								PROJECT		
								SOUTH ALKIMOS BEACH PARK 2B & C		DRAWING TITLE
										LANDSCAPE COVERSHEET
										GPO BUILDING, 3 FORREST PLACE PERTH WA 6000 AUSTRALIA © Copyright AECOM AUSTRALIA PTY LTD 2009
										T +61 (08) 6208 0000 F +61 (08) 6208 0999
										DRAWING NUMBER
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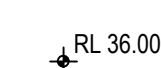
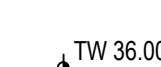







LEGEND

HARDWORKS


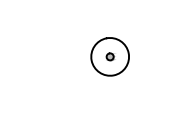
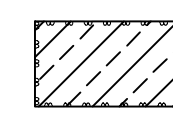
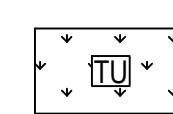

-  EXTENT OF WORKS
-  PAVING TYPE 1
GREY INSITU CONCRETE
REFER TO DETAILS & SPECIFICATION
-  PAVING TYPE 1a (VEHICLE LOADING)
TRAFFICABLE GREY INSITU CONCRETE
REFER TO DETAILS & SPECIFICATION
-  PAVING TYPE 2 - EXPOSED AGGREGATE
REFER TO DETAILS & SPECIFICATION
-  ROCK PROTECTION TO BUBBLE UP PIT
REFER DETAIL AND SPECIFICATION
-  WALL TYPE 1 - LIMESTONE BLOCK
FREE STANDING / RETAINING MAX 500mm HEIGHT
350X350X500mm NATURAL LIMESTONE
REFER TO DETAILS AND SPECIFICATION
-  WALL TYPE 2 - LIMESTONE BLOCK
RETAINING MAX 900mm HEIGHT
350X350X500mm NATURAL LIMESTONE
REFER TO DETAILS AND SPECIFICATION
-  WALL TYPE 3 - LIMESTONE EDGE TO GARDEN BED
RETAINING MAX 500mm
350X350X500mm NATURAL LIMESTONE
REFER TO DETAILS AND SPECIFICATION
-  WALL TYPE 4 - BOULDERS RETAINING WALL (RECLAIMED FROM SITE) AS
DETAILED
(VARYING SIZES INDICATIVE ONLY)
-  CONCRETE STAIRS WITH CAST-IN
NOSING STRIP AS DETAILED & SPECIFIED
-  HANDRAIL
REFER TO DETAILS & SPECIFICATION
-  TACTILE INDICATORS
REFER TO DETAILS & SPECIFICATION
-  SEAT TYPE 1 - COX ALKIMOS SEAT (WITH BACK)
ALK: SAT N300
EPOXY-FIXED M12 SPIGOTS INTO MINIMUM 100MM THICK PAVING
REFER TO CUSTOM FURNITURE PACKAGE SPECIFICATION
-  SEAT TYPE 3 - COX ALKIMOS ALUMINIUM FRAME
REFER TO CUSTOM FURNITURE PACKAGE SPECIFICATION
-  PICNIC TABLE SETTING TYPE 1 - COX CUSTOM FURNITURE
COX 'NEIGHBOURHOOD' PICNIC TABLE (ALK:TBL 197)
SURFACE EPOXY-FIXED M12 SPIGOTS INTO MINIMUM 100MM THICK PAVING
REFER TO CUSTOM FURNITURE PACKAGE SPECIFICATION
-  BIN TYPE 1
POLE MOUNTING FOR BINS AND 240L CITY OF WANNEROO BINS
REFER TO SPECIFICATION
-  LARGE BOULDERS RECLAIMED FROM SITE
1000 - 1500mm (SIZE INDICATIVE ONLY)
-  MEDIUM BOULDERS RECLAIMED FROM SITE
750 - 1000mm (SIZE INDICATIVE ONLY)
-  SMALL BOULDERS RECLAIMED FROM SITE
500 - 750mm (SIZE INDICATIVE ONLY)
-  SPADE EDGE
INCLUDE TO ALL TREE WELLS AND AS SHOWN ON PLANS
REFER TO DETAILS & SPECIFICATION
-  IRREGULAR LIMESTONE EDGE
REFER TO DETAILS & SPECIFICATION

SETOUT & GRADING

NOTE: ALL SET OUT LEVELS ARE DESIGN LEVELS ONLY.

-  SPOT LEVEL
-  TOP OF WALL LEVEL
-  BOTTOM OF WALL LEVEL
-  TOP OF WATER LEVEL
-  BOTTOM OF WATER LEVEL
-  PROPOSED CONTOURS
-  EXISTING CONTOURS
-  DIRECTION OF RAMP UP
-  DIRECTION OF FALL

SOFTWORKS

- NOTE:
 - ALL TREE LOCATIONS ARE DESIGN LOCATIONS ONLY.
 - PLANTING AREAS ARE DESIGN ONLY.
-  TREE
REFER TO LANDSCAPE PLANS AND MATERIALS PALETTE
-  GRASS TREE
REFER TO LANDSCAPE PLANS AND MATERIALS PALETTE
-  SHRUB & GROUNDCOVER PLANTING
REFER TO DETAILS & SPECIFICATION
SOIL PREPARATION, FULLY IRRIGATED AND ORGANIC MULCH TO 75MM
-  TURF
KIKUYU - VILLAGE GREEN
REFER TO DETAILS & SPECIFICATION
SOIL PREP TO BE INSTALLED AS PART OF CIVIL WORKS
-  MULCH ONLY
75MM ORGANIC MULCH
REFER TO DETAILS & SPECIFICATION

GENERAL NOTES

1. THESE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE PROJECT TECHNICAL SPECIFICATION FOR LANDSCAPE WORKS, AND ALL RELEVANT CONTRACT DOCUMENTS.
 2. THE CONTRACTOR IS REQUIRED TO ORGANISE AN ON-SITE PRE-START / TOOLBOX MEETING WITH THE LANDSCAPE SUPERINTENDENT AND PRINCIPAL PRIOR TO COMMENCEMENT OF ANY SITE WORKS
 3. LANDSCAPE DRAWINGS ARE PROVIDED FOR SURFACE TREATMENTS WITHIN THE SCOPE OF WORKS AS DEFINED ON THE DRAWINGS. THESE DRAWINGS SHOULD NOT BE USED FOR LOCATING ANY SUBTERRANEAN SERVICES WITHIN OR OUTSIDE THE SCOPE OF WORKS. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL SUBTERRANEAN SERVICE LOCATIONS ON SITE PRIOR TO COMMENCING WORKS.
 4. ALL DIMENSIONS ARE PROVIDED IN MILLIMETERS UNLESS OTHERWISE NOTED. DIMENSIONS SHOULD NOT BE OBTAINED BY SCALING OFF THE DRAWINGS. ALL DIMENSIONS WITHIN DETAIL PAGES ARE PROVIDED FOR INFORMATION ONLY; ENGINEERING SHOP DRAWINGS ARE TO BE OBTAINED FOR ALL STRUCTURAL ITEMS PRIOR TO COMMENCEMENT OF WORKS. CONTACT THE PROJECT LANDSCAPE ARCHITECT / DESIGN ENGINEER FOR CLARIFICATION OF DIMENSIONS WHERE REQUIRED.
 5. SETOUT AND INSPECTION OF THE WORKS AS OUTLINED IN THE LANDSCAPE TECHNICAL SPECIFICATION MUST BE WITNESSED AND APPROVED BY THE LANDSCAPE SUPERINTENDENT PRIOR TO CONSTRUCTION.
 6. CONTROL JOINS TO COW STANDARDS & SPECIFICATION.
- TREES AND PLANTING WORKS
7. IRRIGATION DESIGN, DRAWING AND LANDSCAPE CONSTRUCTION NOT INCLUDED IN THIS PACKAGE, REFER IRRIGATION DRAWINGS.
 8. A TYPICAL SAMPLE OF PLANT-STOCK TO BE INSTALLED SHALL BE WITNESSED ON SITE BY LANDSCAPE SUPERINTENDENT FOR APPROVAL PRIOR TO INSTALLATION IN ACCORDANCE WITH THE LANDSCAPE SPECIFICATION.
 9. ALL PLANT SPECIES MUST BE INSTALLED AS PER THE PLANT SCHEDULE SPECIFIED. ANY VARIATIONS FROM THE PLANT SCHEDULE MUST BE APPROVED IN WRITING PRIOR TO INSTALLATION. SHOULD INCORRECT SPECIES BE INSTALLED WITHOUT PRIOR APPROVAL, THE CONTRACTOR WILL BE RESPONSIBLE FOR REPLACEMENT WITH CORRECT SPECIES AT THE CONTRACTORS EXPENSE.
 10. ALL TREES, SHRUBS AND GRASSES ARE TO BE INSTALLED OFFSET FROM KERB, FOOTPATHS, AND HARDSTAND AREAS AS OUTLINED WITHIN THE PLANT SCHEDULE AND TREE PLANTING DETAILS.
 11. ALL TREES MUST BE INSTALLED A MINIMUM HORIZONTAL DISTANCE FROM SERVICES AS FOLLOWS:
 - 11.1. 0.3M FROM SEWER SERVICES
 - 11.2. 0.6M FROM WATER AND STORMWATER SERVICES
 - 11.3. 2.7M FROM RP BOUNDARIES WHERE POSSIBLE
 - 11.4. 5M FROM STREET LIGHT POLES (DISTANCE FROM TRUNK TO POLE)



AS CONSTRUCTED 

13 June 2016 16:23:38 60233806-PARKB2&C-LA-DRG-CD-0002.DWG

0A V10.1

<p>REFERENCES</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>CONSULTANT</th> <th>DRAWING ID</th> <th>REV</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>CIVIL ENGINEER</td> <td>6016 Csd</td> <td></td> <td>2013.05.16</td> </tr> <tr> <td>CIVIL ENGINEER</td> <td>6016050base</td> <td></td> <td>2013.07.16</td> </tr> <tr> <td>CIVIL ENGINEER</td> <td>601601base</td> <td></td> <td>2013.04.24</td> </tr> <tr> <td>SURVEYOR</td> <td>120315-Alkimos Beach Mapping</td> <td></td> <td></td> </tr> </tbody> </table>	CONSULTANT	DRAWING ID	REV	DATE	CIVIL ENGINEER	6016 Csd		2013.05.16	CIVIL ENGINEER	6016050base		2013.07.16	CIVIL ENGINEER	601601base		2013.04.24	SURVEYOR	120315-Alkimos Beach Mapping			<p>CONSULTANTS</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>NAME</th> <th>CONTACT</th> </tr> </thead> <tbody> <tr> <td>CIVIL ENGINEERS</td> <td>COSSILL & WEBLEY</td> </tr> <tr> <td>SURVEYOR</td> <td>WHELANS</td> </tr> </tbody> </table>	NAME	CONTACT	CIVIL ENGINEERS	COSSILL & WEBLEY	SURVEYOR	WHELANS	<p>NOTES</p> <p>THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH AECOM PTY LTD PREPARED SPECIFICATIONS AND DETAILS. SHOULD A CONFLICT EXIST, ADVICE AND DIRECTION SHOULD BE SOUGHT FROM AECOM PTY LTD PRIOR TO UNDERTAKING ANY CONSTRUCTION WORKS. ALL LEVELS SHOWN ARE IN METRES AUSTRALIAN HEIGHT DATUM, AND DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.</p> <p>ALL INFORMATION RELATING TO ARCHITECTURAL, CIVIL, STRUCTURAL, SERVICES AND OTHER WORKS AS REPRESENTED ON THIS DRAWING AS PREPARED BY AECOM PTY LTD IS FOR AECOM REFERENCE AND COORDINATION PURPOSES ONLY. ALL DOCUMENTATION TO THESE AND OTHER WORKS OUTSIDE THE SCOPE DEFINED FOR AECOM SHOULD BE REFERRED TO THE RELEVANT CONSULTANTS' DRAWINGS AND SPECIFICATION FOR DETAILS.</p> <p>THIS DRAWING IS CONFIDENTIAL AND SHALL ONLY BE USED FOR THE PURPOSES OF THIS PROJECT.</p>	<p>AMENDMENTS</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>ISSUE DATE</th> <th>AMENDMENT</th> <th>APPROVED</th> </tr> </thead> <tbody> <tr> <td>A 07/17/2014</td> <td>ISSUE FOR COUNCIL APPROVAL</td> <td>FM</td> </tr> <tr> <td>B 29/07/2014</td> <td>ISSUE FOR PRICING</td> <td>FM</td> </tr> <tr> <td>0 04/11/2014</td> <td>ISSUE FOR CONSTRUCTION HARDWORKS ONLY</td> <td>FM</td> </tr> <tr> <td>1 11/27/2014</td> <td>ISSUE FOR CONSTRUCTION</td> <td>FM</td> </tr> <tr> <td>2 9/25/2015</td> <td>AS CONSTRUCTED</td> <td>FM</td> </tr> </tbody> </table>	ISSUE DATE	AMENDMENT	APPROVED	A 07/17/2014	ISSUE FOR COUNCIL APPROVAL	FM	B 29/07/2014	ISSUE FOR PRICING	FM	0 04/11/2014	ISSUE FOR CONSTRUCTION HARDWORKS ONLY	FM	1 11/27/2014	ISSUE FOR CONSTRUCTION	FM	2 9/25/2015	AS CONSTRUCTED	FM	<p>CLIENT</p> <p style="text-align: center;">LEND LEASE</p> <p>PROJECT SOUTH ALKIMOS BEACH PARK 2B & C</p> <p>PROJECT NUMBER 60233806</p>	<p>SCALE</p> <p style="text-align: center;">NA</p> <p>DRAWING TITLE LANDSCAPE LEGEND</p>	<p>DRAWN</p> <p style="text-align: center;">TL</p> <p>DRAWING NUMBER 60233806-PARKB2&C-LA-DRG-CD-0002</p> <p>ISSUE 2</p>
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**SOUTH ALKIMOS PLANT SCHEDULES
PARK B2 & C**

CODE	BOTANICAL NAME	COMMON NAME	SUBSTITUTE	INSTALL SIZE	MATURE SIZE (m)	* SPACING m2	NUMBER
TREES							
ALL fra	<i>Allocasuarina fraseriana</i>	Common Sheoak	<i>Casuarina obesa</i>	200L	4.6 x 7	As Shown	
AGO fe	<i>Agonis flexuosa</i>	WA Peppermint		100L	10 x 7	As Shown	
CAL pre	<i>Callitris preissii</i>	Rottneest Island Pine		100L	8 x 6	As Shown	
CAL vim	<i>Callistemon viminialis</i>	Weeping Bottlebrush	<i>Callistemon</i> 'Kings Park Special'	45L	3 x 1	As Shown	
COR mac	<i>Corymbia maculata</i>	Spotted gum		100L	30 x 7	As Shown	
EUC gom	<i>Eucalyptus gomphocephala</i>	Tuart	<i>Corymbia maculata</i>	400L	30 x 8	As Shown	
HAK lau	<i>Hakea laurina</i>	Pin-cushion Hakea		45L	3 x 1	As Shown	
LIQ sty	<i>Liquidambar styraciflua</i>	American sweetgum	400L [Upsized]	200L	20 x 8	As Shown	
SAN acc	<i>Santalum accuminatum</i>	Quandong	(Extra)	170L	8 x 4	As Shown	
MEL cut	<i>Melaleuca cuticularis</i>	Saltwater Paperbark	<i>Melaleuca armillaris</i>	45L	20 x 8	As Shown	
MEL lan	<i>Melaleuca lanceolata</i>	Rottneest Island Teatree		200L	10 x 7	As Shown	
XAN pre	<i>Xanthorrhoea preissii</i>	Grass Tree		200L	3 x 1	As Shown	
TOTAL							
GROUNDCOVERS/SHRUBS							
MIX A							
ACA las	<i>Acacia lasiocarpa</i>	Panjang - Dune Mosses		Tubestock	0.5 x 1	500mm	
BAN ash	<i>Banksia ashbyi Dwarf</i>	Dwarf Ashby's Banksia		Tubestock	1.5 x 1.5	500mm	
CHA pin	<i>Chamaelucium uncinatum 'Petite Pink'</i>	Petite Pink	<i>Westringia</i> 'Surf Foam'	Tubestock	0.2 x 1	500mm	
CON can	<i>Conostylis candidans</i>	Grey cottonheads		Tubestock	0.3 x 0.5	500mm	
ERE niv	<i>Eremophila nivea</i>	"Spring Mist"	<i>Carpobrotus virescens</i>	Tubestock	1 x 1	500mm	
LEU bro	<i>Leucophyta brownii</i>	Cushion Bush		Tubestock	1 x 1.2	500mm	
PIM fer	<i>Pimelea ferruginea</i>	Melissa Anne		Tubestock	0.35 x 0.4	500mm	
RHA bac	<i>Rhagodia baccata</i>						
MIX B							
ATR cin	<i>Atriplex cinerea</i>	Grey saltbush		Tubestock		500mm	
ATR isa	<i>Atriplex isatidea</i>	Coast Saltbush	<i>Leucophyta brownii</i>	Tubestock	1 x 1	500mm	
FRA pau	<i>Frankenia pauciflora</i>	Sea-heath	<i>Myoporum parvifolium</i>	Tubestock	0.6 x 2	500mm	
GRE cri	<i>Grevillea crithmifolia Prostrate</i>	Grevillea	<i>Grevillea 'Ella Bella'</i>	Tubestock	0.6 x 3	500mm	
LEP gla	<i>Lepidosperma gladiatum</i>	Coast Sword-Sedge		Tubestock	1.5 x 1.5	500mm	
MEL hue	<i>Melaleuca huegelii</i>	Chenille Honeymyrtle	<i>Melaleuca cuticularis / systena / puchella</i>	Tubestock	1.5 x 1.5	500mm	
SCA cra	<i>Scaevola crassifolia</i>	Thick-leaved Fan-flower		Tubestock	1 x 1	500mm	
MIX C							
ACA pre	<i>Acanthocarpus preissii</i>	Prickle Lily		Tubestock	0.6 x 2	500mm	
CAR vir	<i>Carpobrotus virescens</i>	Coastal Pigface		Tubestock	0.5 x 1.5	500mm	
GAS cap	<i>Gastrolobium capitatum</i>		<i>Calothamnus quadrifidus</i>	Tubestock	0.5 x 1.5	500mm	
HAK tri	<i>Hakea trifurcata</i>	Two-Leaf Hakea		Tubestock	3 x 3	500mm	
MYO ins	<i>Myoporum insulare</i>	Coastal Rambler	<i>Westringia 'Bulli Coastal Creeper'</i>	Tubestock	0.8 x 2	500mm	
SCA cra	<i>Scaevola crassifolia</i>	Thick-leaved Fan-flower		Tubestock	1 x 2	500mm	
TEM ret	<i>Templetonia retusa</i>	Cocky's tongues		Tubestock	1 x 3	500mm	
MIX D							
DIA rev	<i>Dianella revoluta</i>	Revelation	<i>Lomandra longifolia</i>	Tubestock	0.5 x 0.5	500mm	
GRE cri	<i>Grevillea crithmifolia Prostrate</i>	Grevillea	<i>Grevillea 'Ella Bella'</i>	Tubestock	0.6 x 3	500mm	
HIB spi	<i>Hibbertia spicata</i>		<i>Hibbertia subvaginata</i>	Tubestock	0.5 x 2	500mm	
MEL sys	<i>Melaleuca systena</i>	Coastal Honeymyrtle	<i>Hibbertia subvaginata</i>	Tubestock	2 x 2	500mm	
LEP gla	<i>Lepidosperma gladiatum</i>	Coast Sword-Sedge		Tubestock	1.5 x 1.5	500mm	
SPI hir	<i>Spinifex hirsutus</i>	Hairy Spinifex	<i>Spinifex longifolius</i>	Tubestock	0.8 x 1.5	500mm	
SPI lon	<i>Spinifex longifolius</i>	Beach Spinifex		Tubestock	1 x 2	500mm	
WES dam	<i>Westringia dampieri</i>	Shore westringia		Tubestock	0.5 x 2	500mm	
MIX E							
SCA cra	<i>Scaevola crassifolia</i>	Thick-leaved Fan-flower		Tubestock	1 x 2	500mm	
GRE cri	<i>Grevillea crithmifolia Prostrate</i>	Grevillea	<i>Grevillea 'Ella Bella'</i>	Tubestock	0.6 x 3	500mm	
CAR app	<i>Carex appressa</i>	Tall Sedge		Tubestock	1 x 1	500mm	
FIC nod	<i>Ficinia nodosa</i>	Knobby Club-nush		Tubestock	0.6 x 0.8	500mm	
LEP gla	<i>Lepidosperma gladiatum</i>	Coast Sword-Sedge		Tubestock	0.8 x 0.6	500mm	
GRE the	<i>Grevillea thelemanniana</i>	Spider-net Grevillea		Tubestock	0.8 x 1.5	500mm	

MIX F	<i>Acacia lasiocarpa</i>	Panjang - Dune Mosses		Tubestock	0.5 x 1	500mm	
BAN ses	<i>Banksia sessilis</i>	Parrot Bush	<i>Hakea varia</i>	Tubestock	1.5 x 1.5	500mm	
CAL qua	<i>Calothamnus quadrifidus</i>	One-sided Bottlebrush		Tubestock	1 x 1	500mm	
CHA pin	<i>Chamaelucium uncinatum 'Petite Pink'</i>	Petite Pink	<i>Thryptomene saxicola 'Supa Nova'</i>	Tubestock	0.2 x 1	500mm	
CON can	<i>Conostylis candidans</i>	Grey cottonheads		Tubestock	0.3 x 0.5	500mm	
ERE niv	<i>Eremophila nivea</i>	"Spring Mist"	<i>Conospermum stoechadis / Olearia 'Little Smokie'</i>	Tubestock	1 x 1	500mm	
LEU bro	<i>Leucophyta brownii</i>	Cushion Bush		Tubestock	1 x 1.2	500mm	
MIX G							
AGO nan	<i>Agonis flexuosa nana</i>	Willow Peppermint	<i>Grevillea 'Gin Gin Gem'</i>	Tubestock	0.3 x 0.5	500mm	
ATR cin	<i>Atriplex cinerea</i>	Grey saltbush		Tubestock		500mm	
ATR isa	<i>Atriplex isatidea</i>	Coast Saltbush	<i>Leucophyta brownii</i>	Tubestock	1 x 1	500mm	
FRA pau	<i>Frankenia pauciflora</i>	Sea-heath	<i>Myoporum parvifolium</i>	Tubestock	0.6 x 2	500mm	
GRE cri	<i>Grevillea crithmifolia Prostrate</i>	Grevillea	<i>Grevillea 'Ella Bella'</i>	Tubestock	0.6 x 3	500mm	
LEP gla	<i>Lepidosperma gladiatum</i>	Coast Sword-Sedge		Tubestock	1.5 x 1.5	500mm	
MEL hue	<i>Melaleuca huegelii</i>	Chenille Honeymyrtle	<i>Melaleuca megacephala</i>	Tubestock	1.5 x 1.5	500mm	
SCA cra	<i>Scaevola crassifolia</i>	Thick-leaved Fan-flower		Tubestock	1 x 1	500mm	
MIX H							
ACA pre	<i>Acanthocarpus preissii</i>	Prickle Lily		Tubestock	0.6 x 2	500mm	
CAR vir	<i>Carpobrotus virescens</i>	Coastal Pigface		Tubestock	0.5 x 1.5	500mm	
GAS cap	<i>Gastrolobium capitatum</i>			Tubestock	0.5 x 1.5	500mm	
HAK tri	<i>Hakea trifurcata</i>	Two-Leaf Hakea		Tubestock	3 x 3	500mm	
HAR com	<i>Hardenbergia comptoniana</i>	Native wisteria		Tubestock		500mm	
MYO ins	<i>Myoporum insulare</i>	Coastal Rambler	<i>Sub: Myoporum parvifolium</i>	Tubestock	0.8 x 2	500mm	
SCA cra	<i>Scaevola crassifolia</i>	Thick-leaved Fan-flower		Tubestock	1 x 2	500mm	
TEM ret	<i>Templetonia retusa</i>	Cocky's tongues		Tubestock	1 x 3	500mm	
MIX I							
CAP vir	<i>Carpobrotus virescens</i>	Coastal Pigface		Tubestock	0.5 x 0.5	500mm	
DIA rev	<i>Dianella revoluta</i>	Revelation	<i>Dianella caerulea</i>	Tubestock	0.5 x 0.5	500mm	
GRE cri	<i>Grevillea crithmifolia Prostrate</i>	Grevillea	<i>Grevillea 'Ella Bella'</i>	Tubestock	0.6 x 3	500mm	
HIB spi	<i>Hibbertia spicata</i>		<i>Hibbertia aurea, Hakea huegelii, Hibbertia hypericoides, Hibbertia racemosa, Hibbertia subvaginata.</i>	Tubestock	0.5 x 2	500mm	
MEL sys	<i>Melaleuca systena</i>	Coastal Honeymyrtle		Tubestock	2 x 2	500mm	
LEP gla	<i>Lepidosperma gladiatum</i>	Coast Sword-Sedge		Tubestock	1.5 x 1.5	500mm	
SPI hir	<i>Spinifex hirsutus</i>	Hairy Spinifex	<i>pinifex longifolius</i>	Tubestock	0.8 x 1.5	500mm	
SPI lon	<i>Spinifex longifolius</i>	Beach Spinifex		Tubestock	1 x 2	500mm	
WES dam	<i>Westringia dampieri</i>	Shore westringia		Tubestock	0.5 x 2	500mm	
MIX K							
CAR app	<i>Carex appressa</i>	Tall Sedge		Tubestock	1 x 1	500mm	
FIC nod	<i>Ficinia nodosa</i>	Knobby Club-rush		Tubestock	0.6 x 0.8	500mm	
LEP eff	<i>Lepidosperma effusum</i>	Spreading Sword-sedge	<i>Lepidosperma pubisquamatum, Lepidosperma calcicola</i>	Tubestock	0.8 x 0.6	500mm	
GRE the	<i>Grevillea thelemanniana</i>	Spider-net Grevillea		Tubestock	0.8 x 1.5	500mm	
LEP gla	<i>Lepidosperma gladiatum</i>	Coast Sword-sedge		Tubestock	0.8 x 0.6	500mm	
MIX J							
ERE gla	<i>Eremophila glabra</i>	Kangaroo Paw		Tubestock	1.5 x 1.5	500mm	
LEP gla	<i>Lepidosperma gladiatum</i>	Coast Sword-Sedge		Tubestock	1.5 x 1.5	500mm	
CAR vir	<i>Carpobrotus virescens</i>	Coastal Pigface		Tubestock	0.5 x 1.5	500mm	
m2 TOTAL #REP							

- NOTES:**
- All trees to be certified and compliant to City's standards. Photographs shall be supplied by Arborist/ Nursery prior to construction/ planting.
 - Ensure Crowns of all grasses are kept clear of all mulch.
 - All planting to
 - Refer Specification for all soil and mulch requirements.
 - Root Barrier will not be used in the streetscapes. Only specifically approved barriers can be installed to trees eg. where planted within 0.9m of sub-surface services or hardstand areas.
 - All turf mounding to be maximum 1:6 grade.
 - All planted slopes to be maximum 1:4 grade.
 - Plant numbers on plan override those listed in Schedule. Should discrepancies occur, the contractor shall install the number of species shown on the plan.
 - All grasses must have reached substantial growth prior to installation - young stock not suitable for the site installation will be rejected
 - * Spacing between plants within the garden beds
 - The above are shrub and groundcover plant counts are the same 130mm pot size.
 - All species
 - Lepidosperma gladiatum shall not be planted on verges as it grows >0.6m at maturity and will block sight line requirements requirements. Specific City of Wanneroo Condition.
 - Lomandra species shall not be planted next to pedestrian footpaths due to maintenance problems for the City of Wanneroo.
 - Species shown in mixes are to be planted randomly and in groupings of 3 or 5 of one species only.
 - Corymbia maculata, Corymbia Callophylla, Eucalyptus gomphocephala and Eucalyptus marginata shall be planted a minimum of 2.5m from all hardstands and furniture.

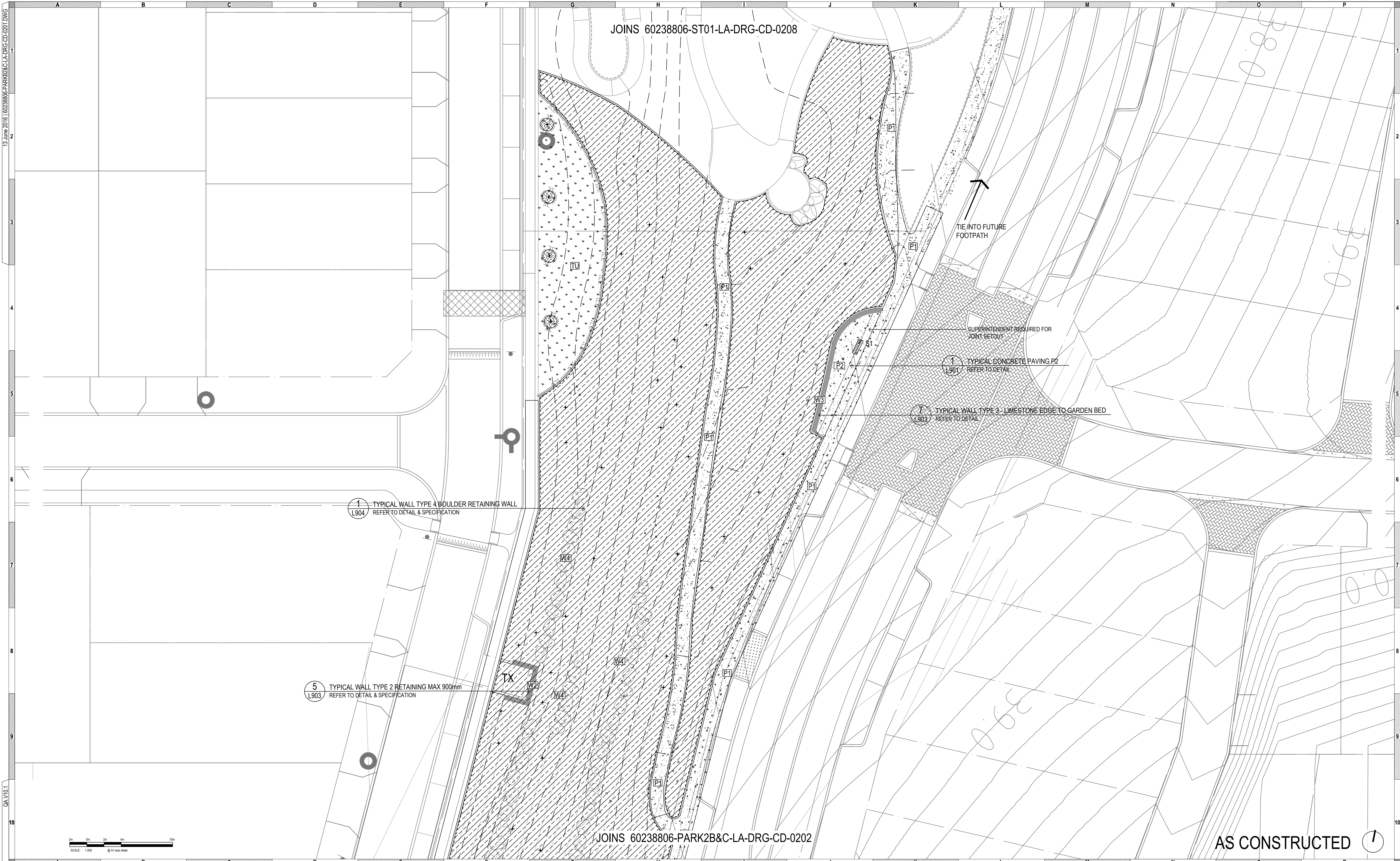
AS CONSTRUCTED

13 June 2015 16:23:38 PPKB2&C-LA-DRG-CD-0003.DWG

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REFERENCES	DRAWING ID	REV	DATE	CONSULTANTS	NOTES	AMENDMENTS	APPROVED	CLIENT	SCALE	DRAWN
CONSULTANT	6016 Csd		2013.05.16	CIVIL ENGINEERS	THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH AECOM PTY LTD PREPARED SPECIFICATIONS AND DETAILS. SHOULD A CONFLICT EXIST, ADVICE AND DIRECTION SHOULD BE SOUGHT FROM AECOM PTY LTD PRIOR TO UNDERTAKING ANY CONSTRUCTION WORKS. ALL LEVELS & DIMENSIONS ARE IN METRES AUSTRALIAN HEIGHT DATUM, AND DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.	A 07/17/2014	FM	LEND LEASE	NA	TL
CIVIL ENGINEER	6016050base		2013.07.16	COSSILL & WEBLEY	ALL INFORMATION RELATING TO ARCHITECTURAL, CIVIL, STRUCTURAL, SERVICES AND OTHER WORKS AS REPRESENTED ON THIS DRAWING AS PREPARED BY AECOM PTY LTD IS FOR AECOM REFERENCE AND COORDINATION PURPOSES ONLY. ALL DOCUMENTATION TO THESE AND OTHER WORKS OUTSIDE THE SCOPE DEFINED FOR AECOM SHOULD BE REFERRED TO THE RELEVANT CONSULTANTS' DRAWINGS AND SPECIFICATION FOR DETAILS.	B 29/07/2014	FM	PROJECT	DRAWING TITLE	LANDSCAPE PLANT SCHEDULE
CIVIL ENGINEER	601601base		2013.04.24	SURVEYOR	THIS DRAWING IS CONFIDENTIAL AND SHALL ONLY BE USED FOR THE PURPOSES OF THIS PROJECT.	0 04/11/2014	FM			
SURVEYOR	120315-Alkimos Beach Mapping					1 11/27/2014	FM			
						2 9/25/2015	FM	PROJECT NUMBER		

PROJECT	SOUTH ALKIMOS BEACH PARK 2B & C	DRAWING NUMBER	60233806
ISSUE		ISSUE	
<p>AECOM</p> <p>GPO BUILDING, 3 FORREST PLACE PERTH WA 6000 AUSTRALIA © Copyright AECOM AUSTRALIA PTY LTD 2009</p> <p>T +61 (08) 6208 0000 F +61 (08) 6208 0999</p>			



JOINS 60238806-ST01-LA-DRG-CD-0208

JOINS 60238806-PARK2B&C-LA-DRG-CD-0202

TIE INTO FUTURE FOOTPATH

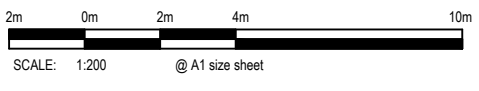
SUPERINTENDENT REQUIRED FOR JOINT SETOUT

1 TYPICAL CONCRETE PAVING P2 (L901) REFER TO DETAIL

7 TYPICAL WALL TYPE 3 LIMESTONE EDGE TO GARDEN BED (L903) REFER TO DETAIL

1 TYPICAL WALL TYPE 4 BOULDER RETAINING WALL (L904) REFER TO DETAIL & SPECIFICATION

5 TYPICAL WALL TYPE 2 RETAINING MAX 900mm (L903) REFER TO DETAIL & SPECIFICATION



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PROJECT NUMBER	60238806		SHEET 1 OF 5		GPO BUILDING, 3 FORREST PLACE PERTH WA 6000 AUSTRALIA © Copyright AECOM AUSTRALIA PTY LTD 2009		T +61 (08) 6208 0000 F +61 (08) 6208 0999						

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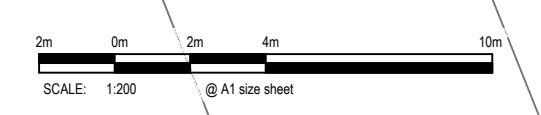
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13 June 2015 60238806-PARK2B&C-LA-DRG-CD-0203.DWG

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A	07/17/2014	ISSUE FOR COUNCIL APPROVAL	FM
B	29/07/2014	ISSUE FOR PRICING	FM
0	04/11/2014	ISSUE FOR CONSTRUCTION HARDWORKS ONLY	FM
1	11/27/2014	ISSUE FOR CONSTRUCTION	FM
2	9/25/2015	AS CONSTRUCTED	FM

CLIENT	PROJECT	PROJECT NUMBER
LEND LEASE	SOUTH ALKIMOS BEACH PARK 2B & C	60233806

SCALE	DRAWN
1:200 @ A1	TL

DRAWING TITLE	DRAWING NUMBER	ISSUE
SURFACE FINISHES	60238806-PARK2B&C-LA-DRG-CD-0203	2

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SHEET 3 OF 5
 60238806-PARK2B&C-LA-DRG-CD-0203 2



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1 11/27/2014 ISSUE FOR CONSTRUCTION FM
2 9/25/2015 AS CONSTRUCTED FM

CLIENT	PROJECT	PROJECT NUMBER
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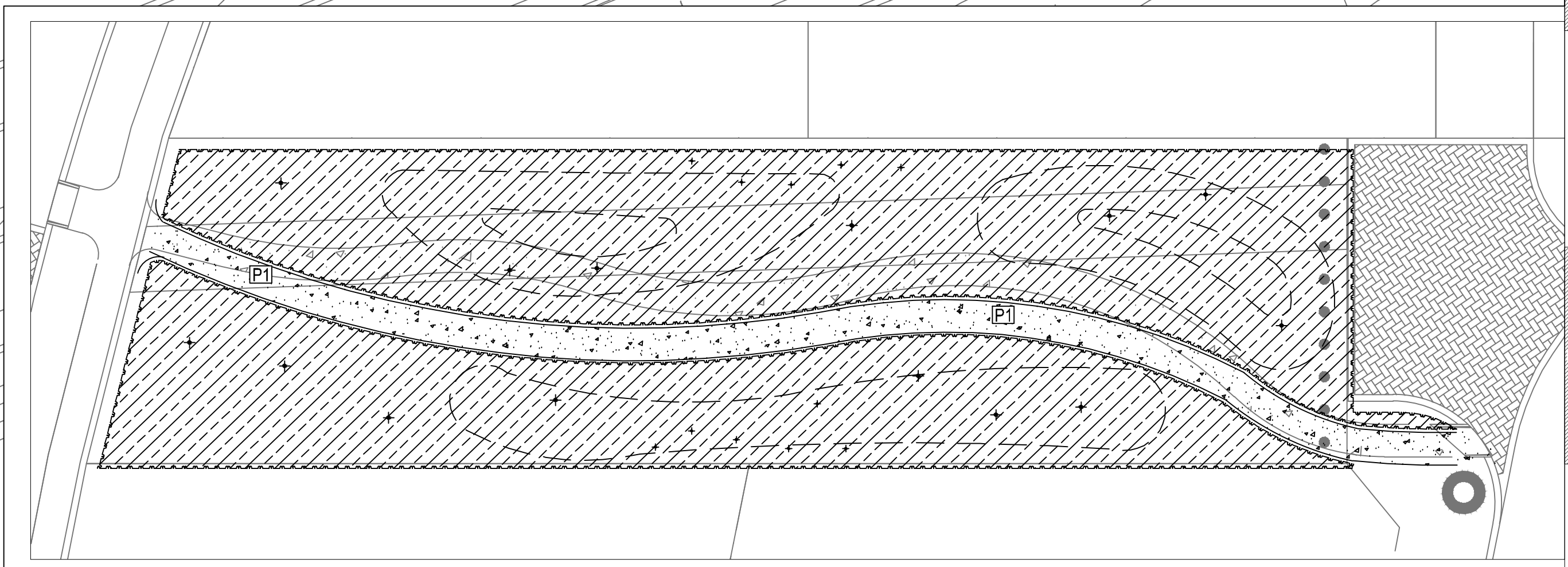
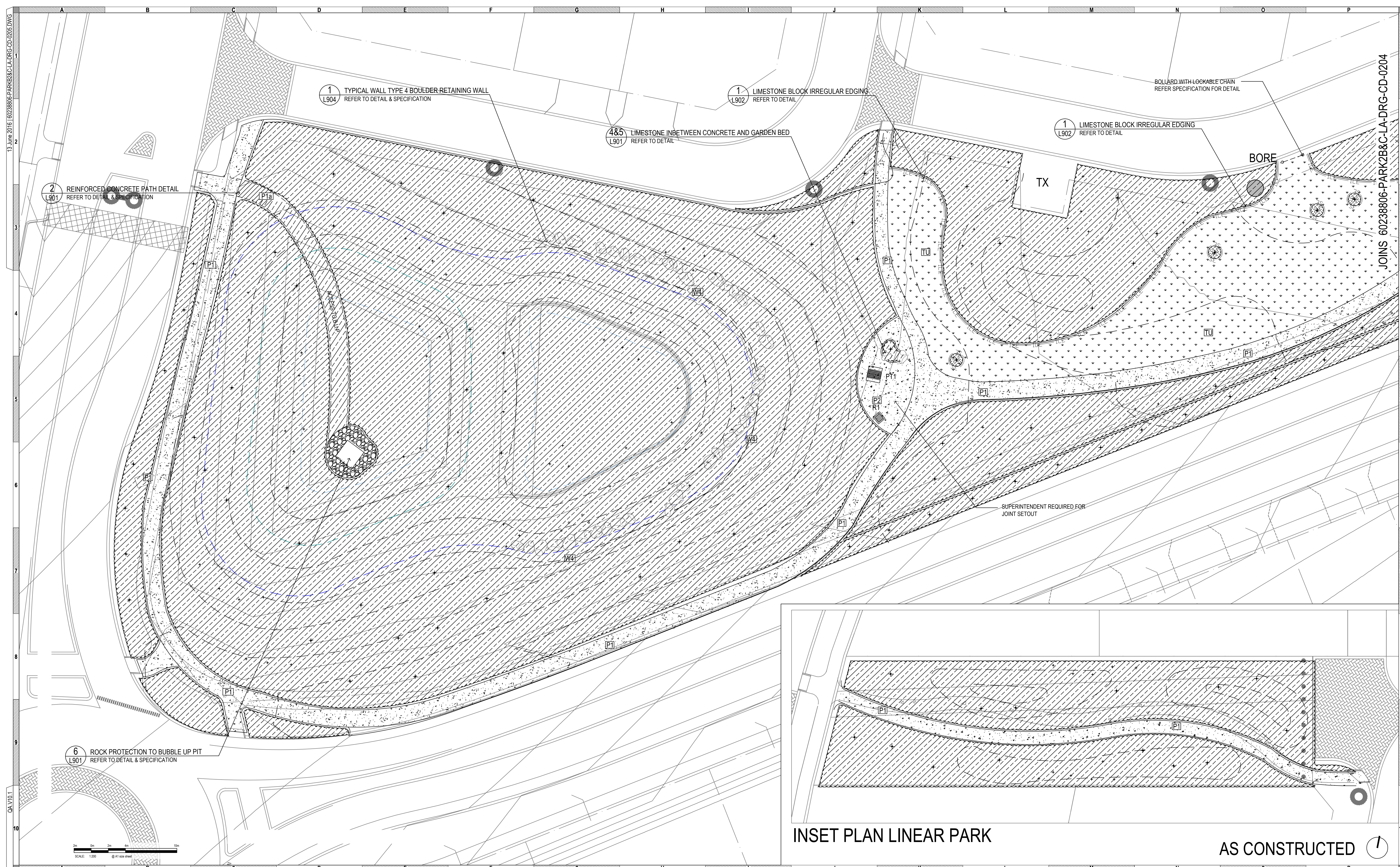
DRAWING TITLE	DRAWING NUMBER	ISSUE
SURFACE FINISHES	60238806-PARK2B&C-LA-DRG-CD-0204	2

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INSET PLAN LINEAR PARK

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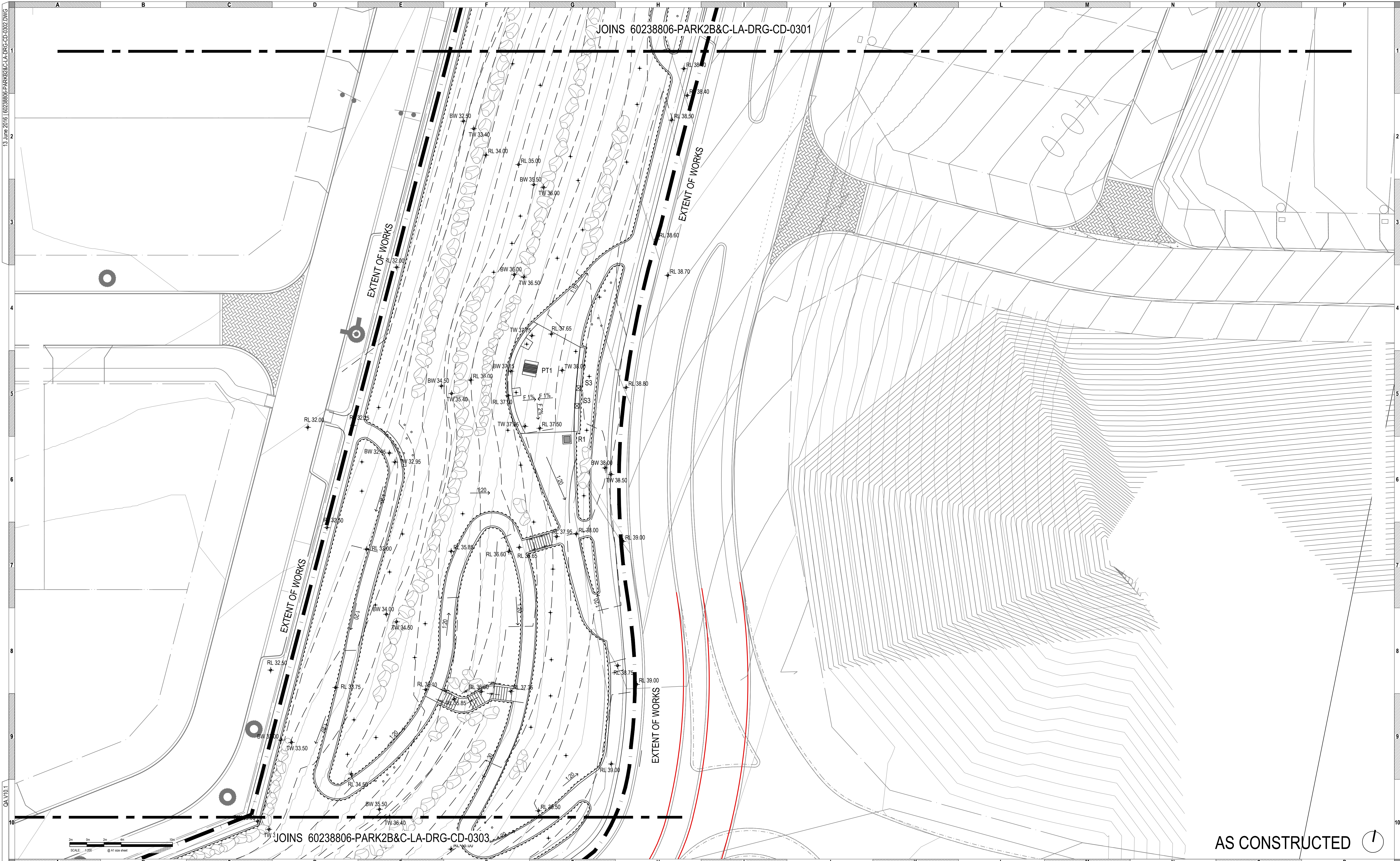
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B	29/07/2014	ISSUE FOR PRICING	FM
0	04/11/2014	ISSUE FOR CONSTRUCTION HARDWORKS ONLY	FM
1	11/27/2014	ISSUE FOR CONSTRUCTION	FM
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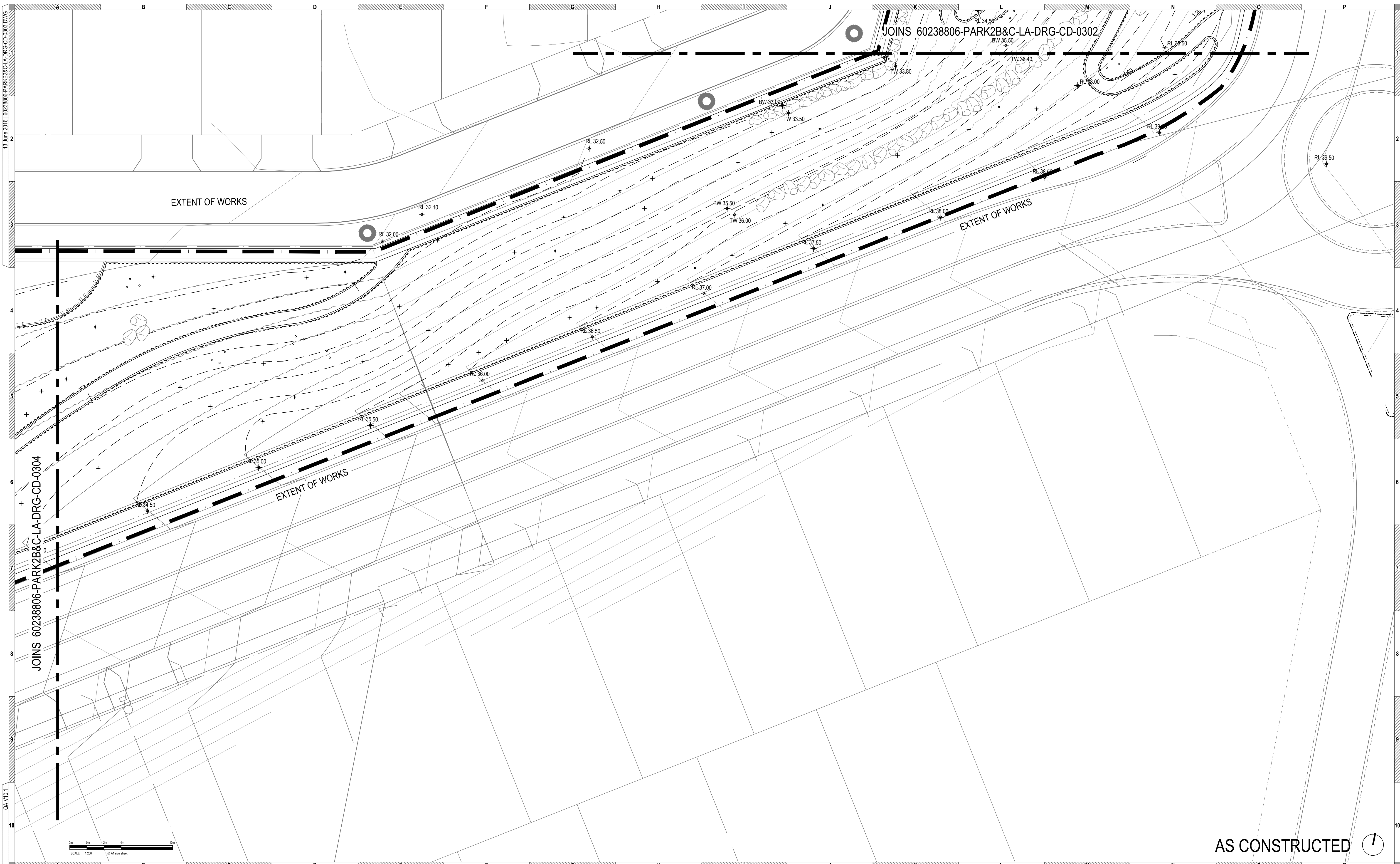
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 PROJECT: SOUTH ALKIMOS BEACH PARK 2B & C
 PROJECT NUMBER: 60233806

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 DRAWING TITLE: SET OUT PLAN
 SHEET 2 OF 5

DRAWN: TL
 DRAWING NUMBER: 60238806-PARK2B&C-LA-DRG-CD-0302
 ISSUE: 2
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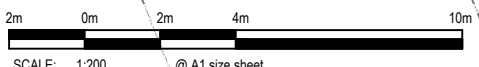
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EXTENT OF WORKS

EXTENT OF WORKS

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1	11/27/2014 ISSUE FOR CONSTRUCTION	FM
2	9/25/2015 AS CONSTRUCTED	FM

CLIENT	LEND LEASE
PROJECT	SOUTH ALKIMOS BEACH PARK 2B & C
PROJECT NUMBER	60233806

SCALE	1:200 @ A1
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DRAWING TITLE	SET OUT PLAN
DRAWING NUMBER	SHEET 3 OF 5 60238806-PARK2B&C-LA-DRG-CD-0303

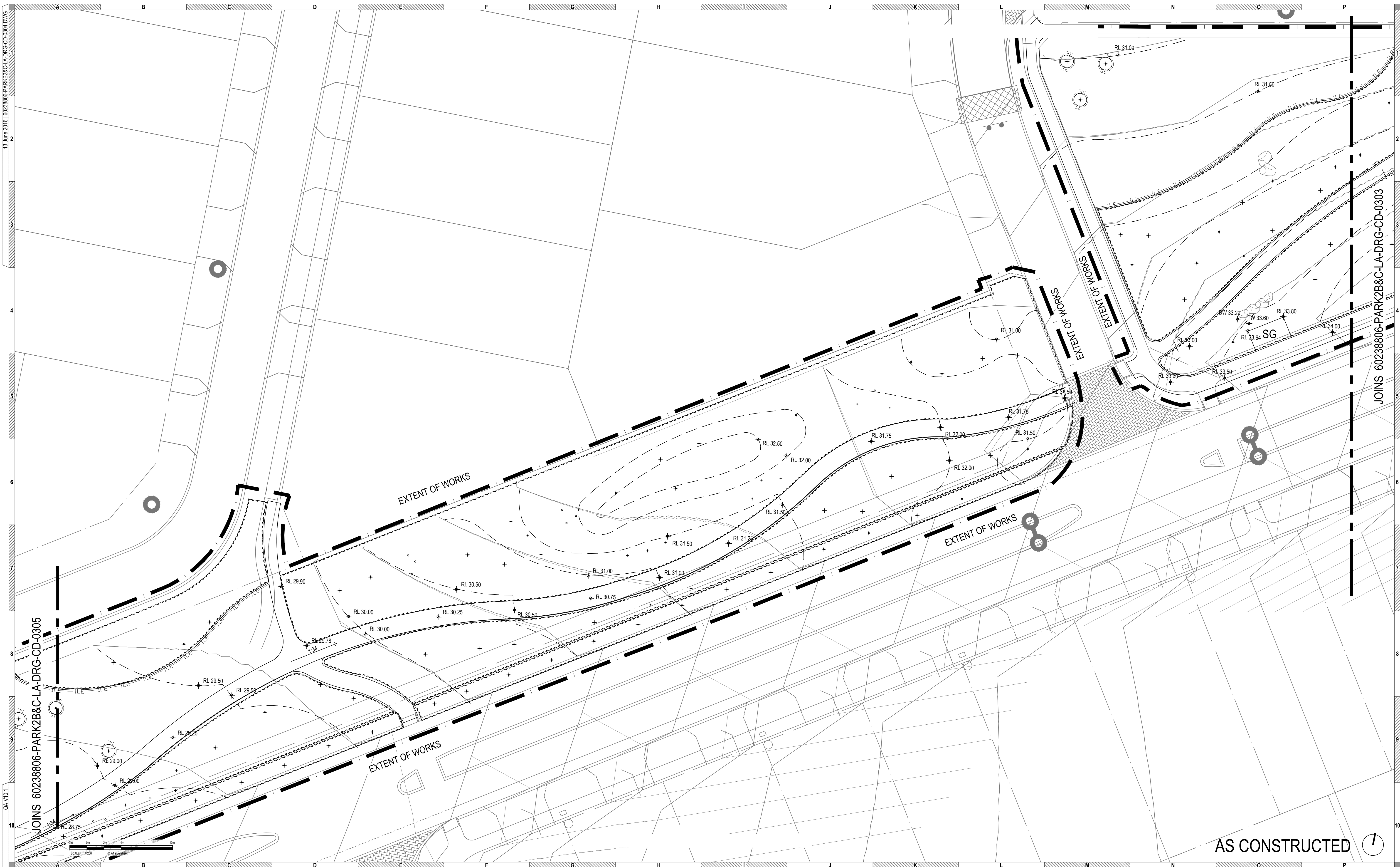


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1	11/27/2014 ISSUE FOR CONSTRUCTION	FM
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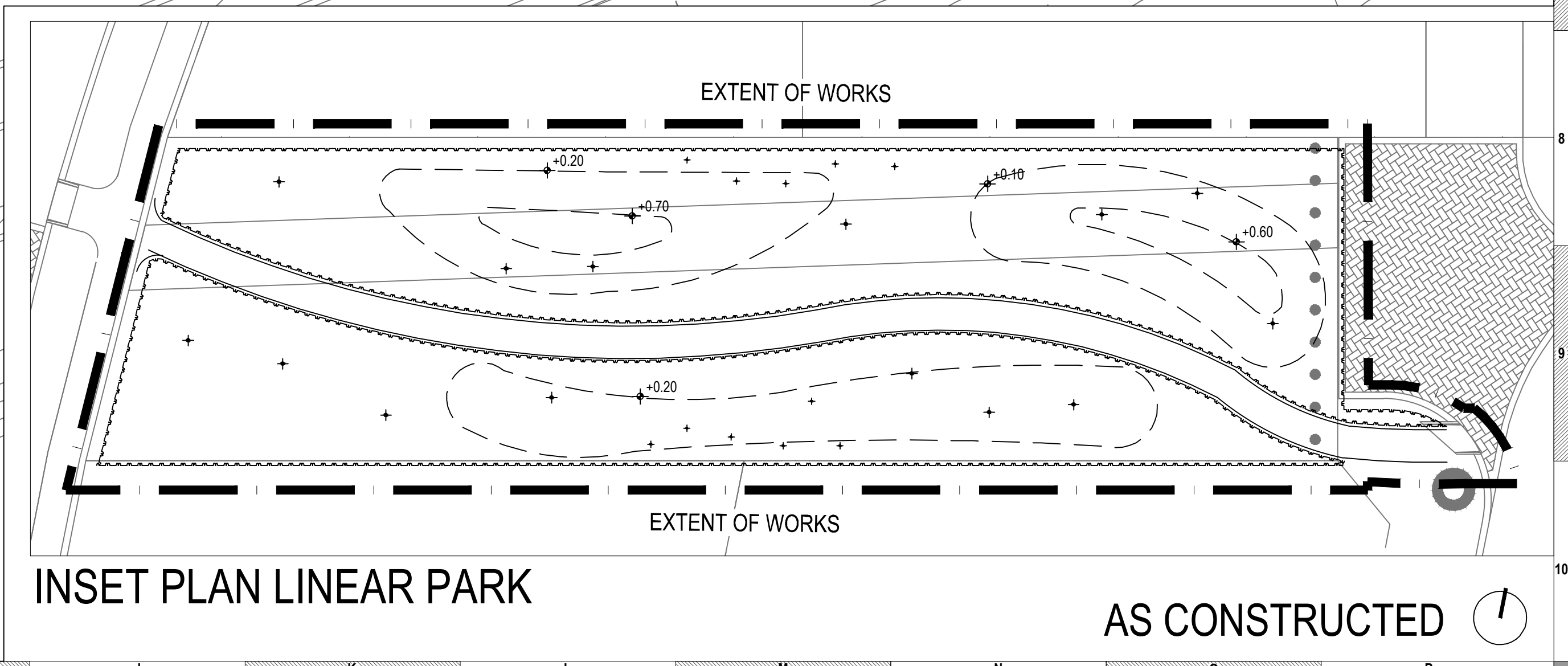
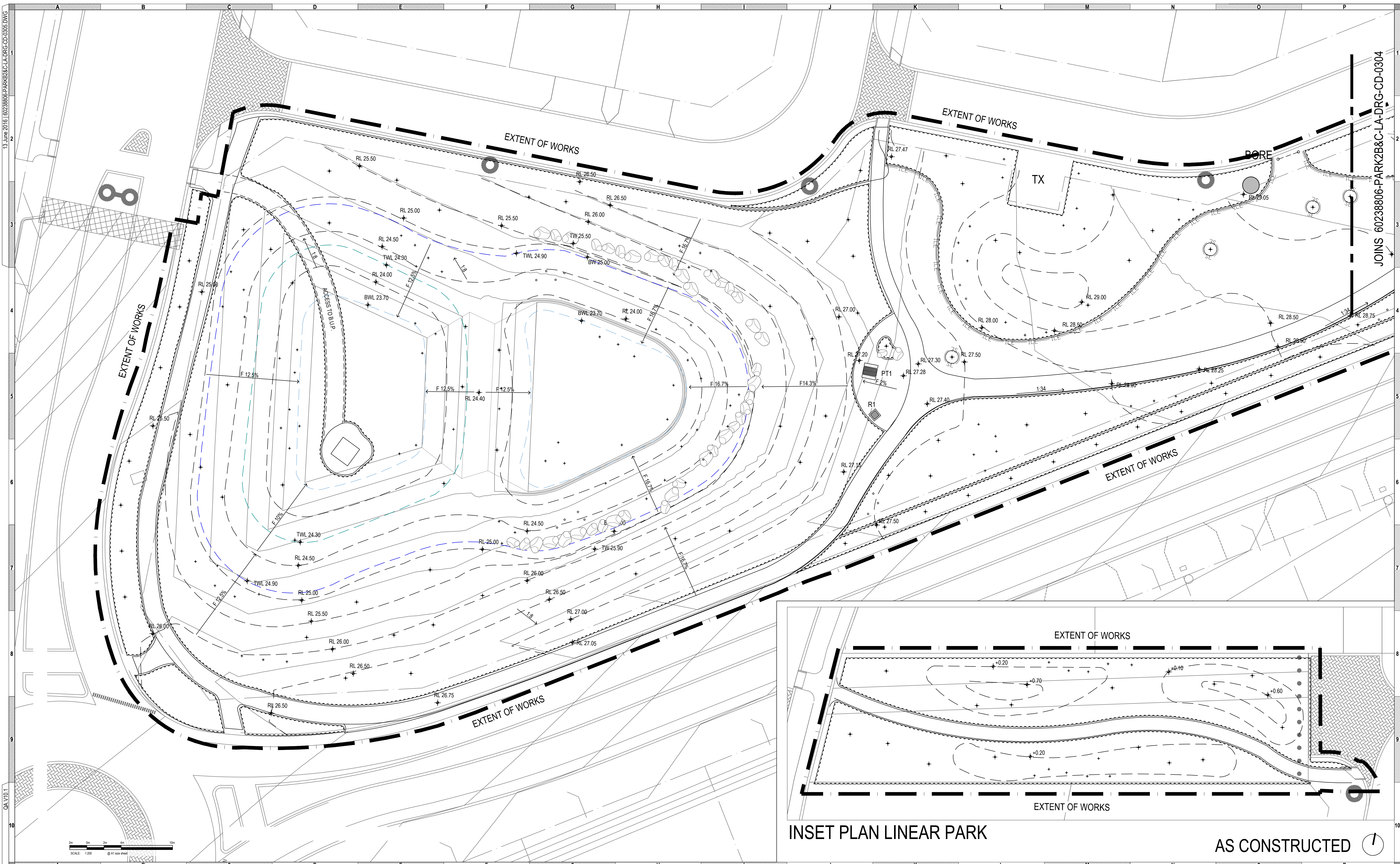
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 SHEET 40F 5

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2	9/25/2015	AS CONSTRUCTED	FM

CLIENT	LEND LEASE
PROJECT	SOUTH ALKIMOS BEACH PARK 2B & C
PROJECT NUMBER	60233806

SCALE	DRAWN
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DRAWING TITLE	SET OUT PLAN

DRAWING NUMBER	ISSUE
SHEET 5 OF 5 60233806-PARK2B&C-LA-DRG-CD-0305	2



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CLIENT	PROJECT	PROJECT NUMBER
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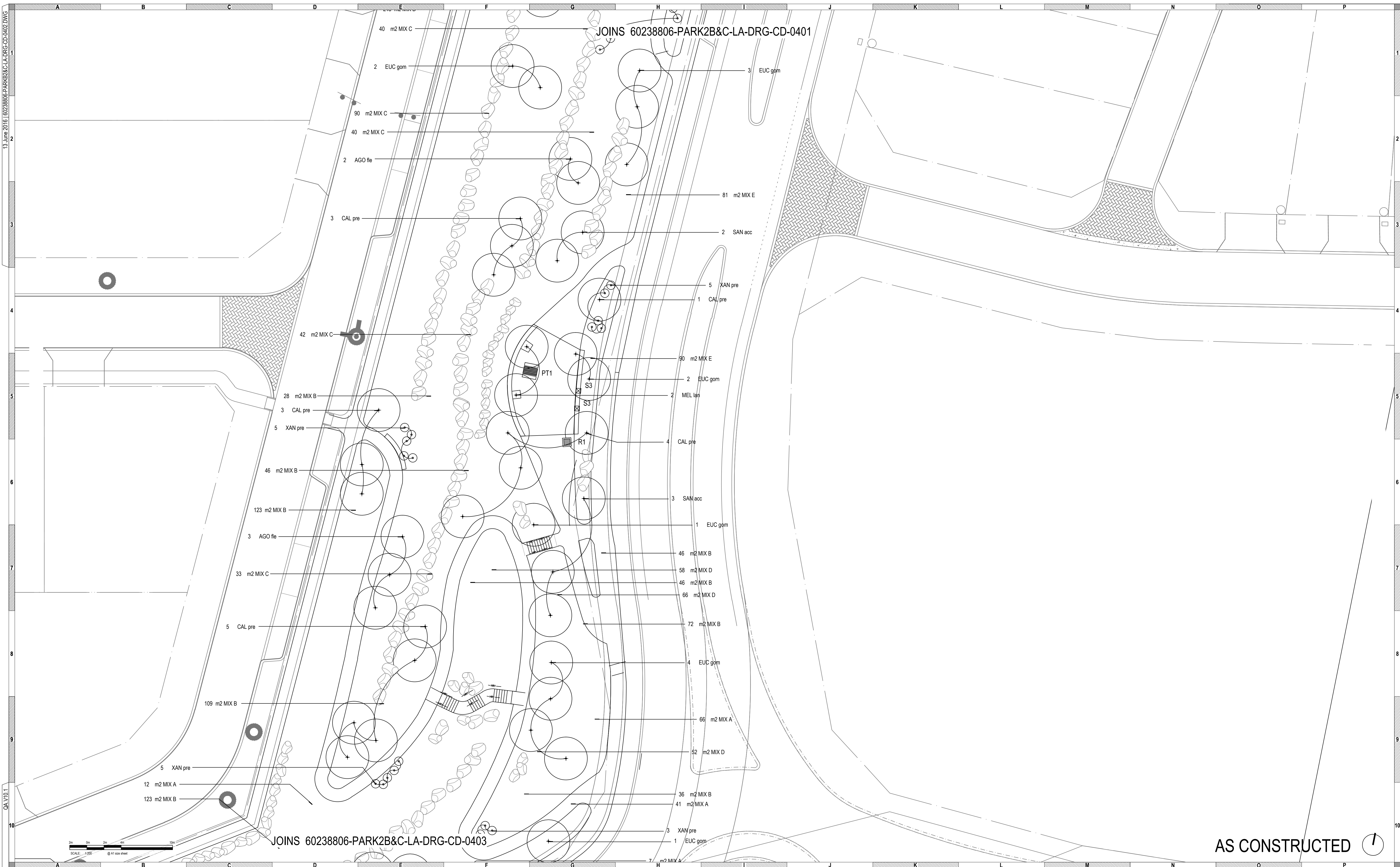
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DRAWN	ISSUE
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2	9/25/2015	AS CONSTRUCTED	FM

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PROJECT	SOUTH ALKIMOS BEACH PARK 2B & C
PROJECT NUMBER	60233806

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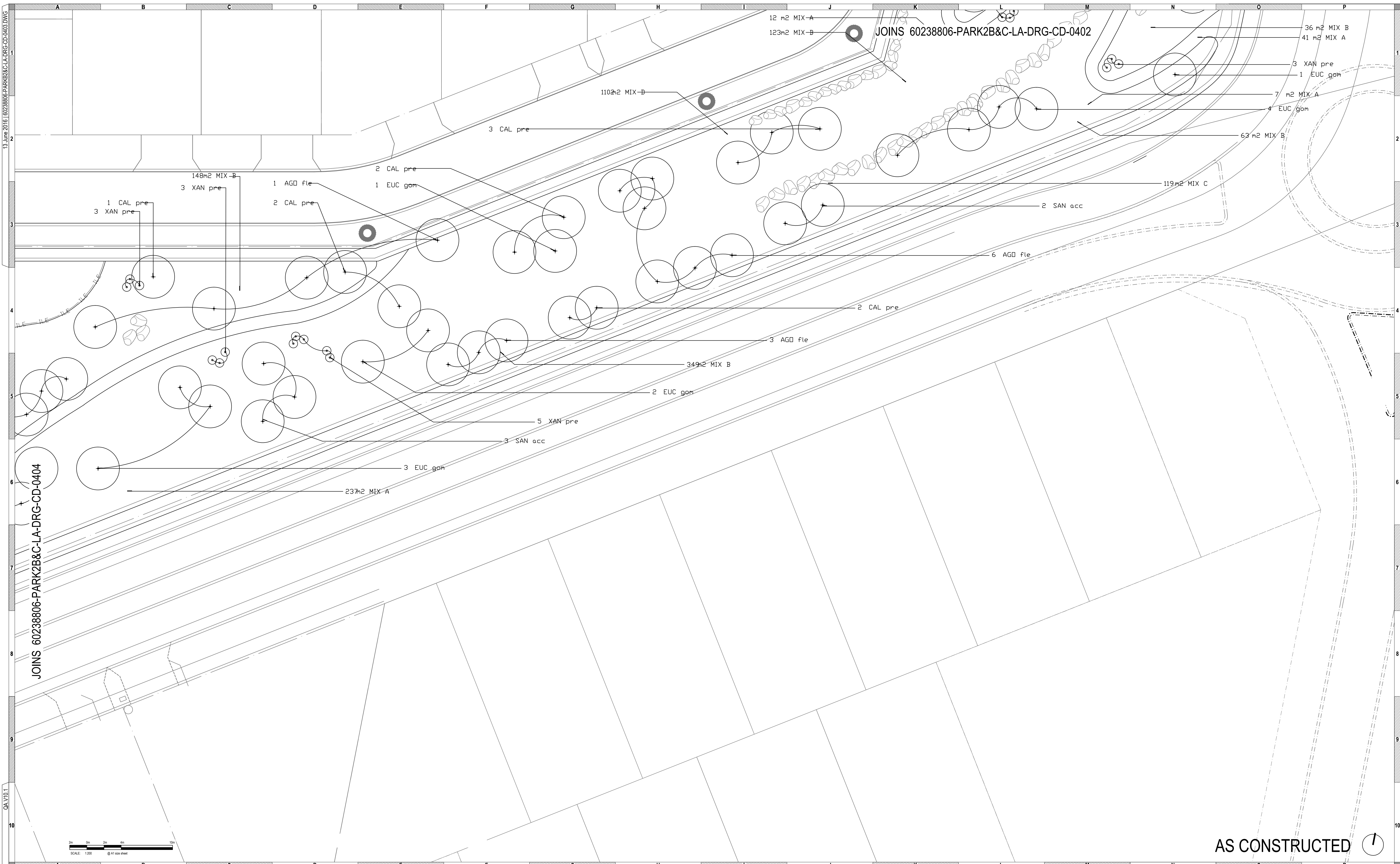
DRAWING TITLE
 PLANTING PLAN

SHEET 2 OF 5 60238806-PARK2B&C-LA-DRG-CD-0402 2



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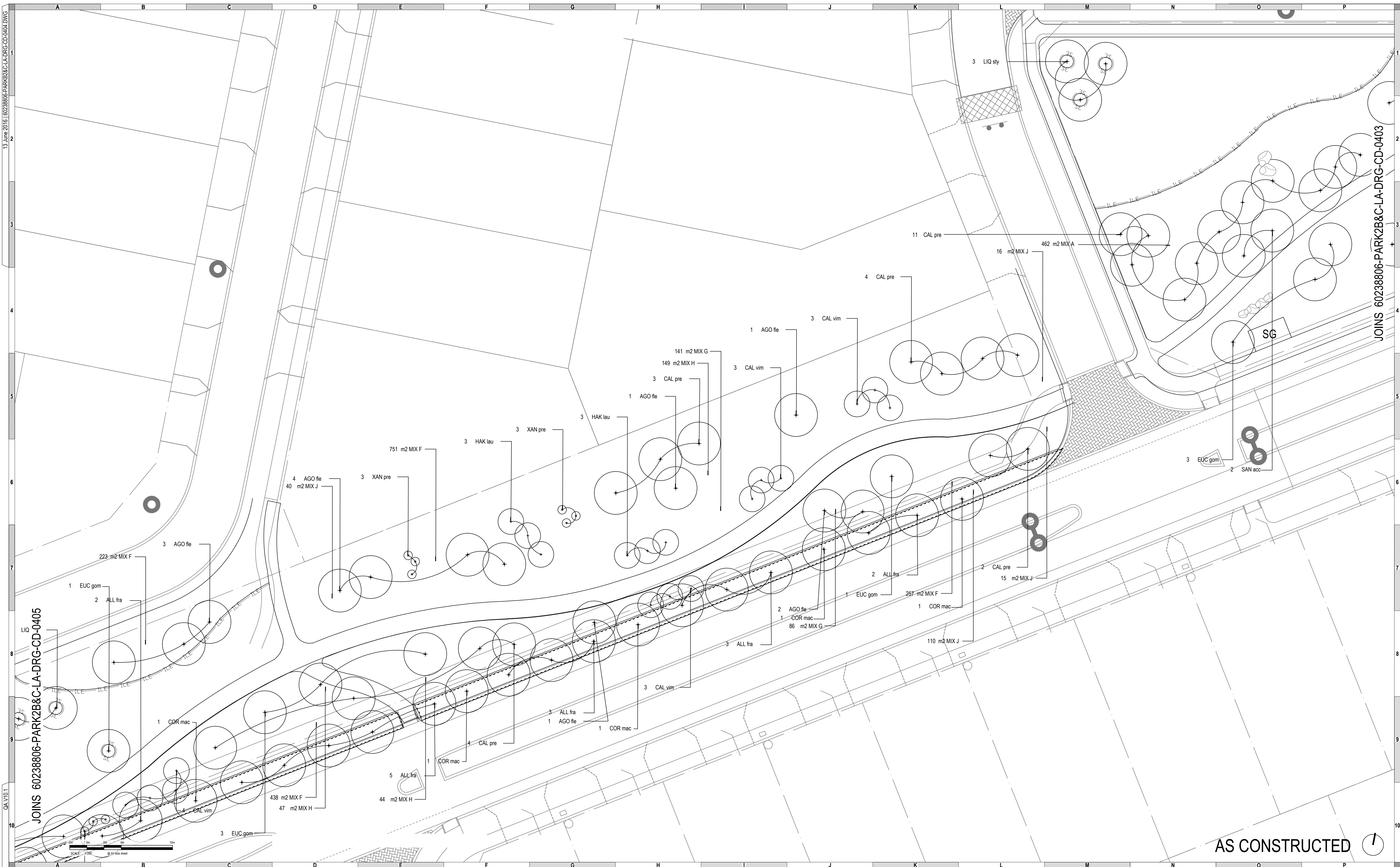
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ISSUE DATE	AMENDMENT	APPROVED
A	07/17/2014 ISSUE FOR COUNCIL APPROVAL	FM
B	29/07/2014 ISSUE FOR PRICING	FM
0	04/11/2014 ISSUE FOR CONSTRUCTION HARDWORKS ONLY	FM
1	11/27/2014 ISSUE FOR CONSTRUCTION	FM
2	9/25/2015 AS CONSTRUCTED	FM

CLIENT

LEND LEASE

PROJECT

SOUTH ALKIMOS BEACH
PARK 2B & C

PROJECT NUMBER

60233806

SCALE

1:200 @ A1

DRAWING TITLE

PLANTING PLAN

DRAWN

TL

DRAWING NUMBER

60233806-PARK2B&C-LA-DRG-CD-0404

ISSUE

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SHEET 40F 5

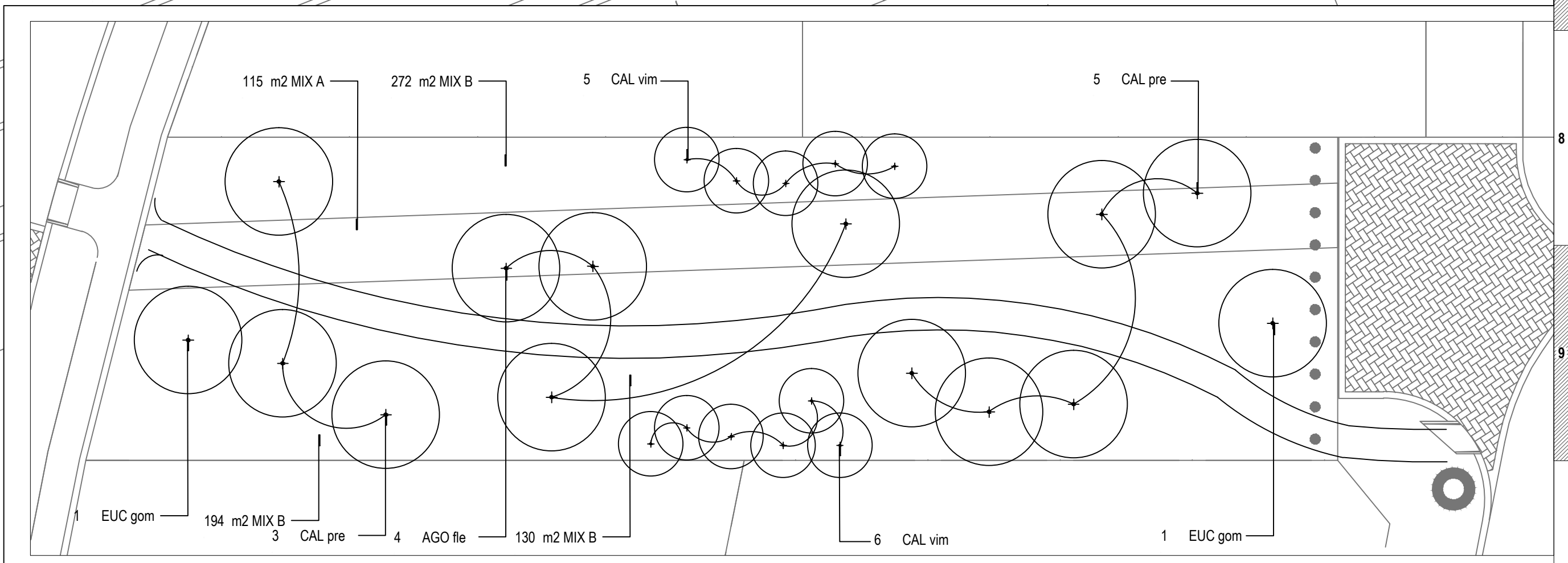
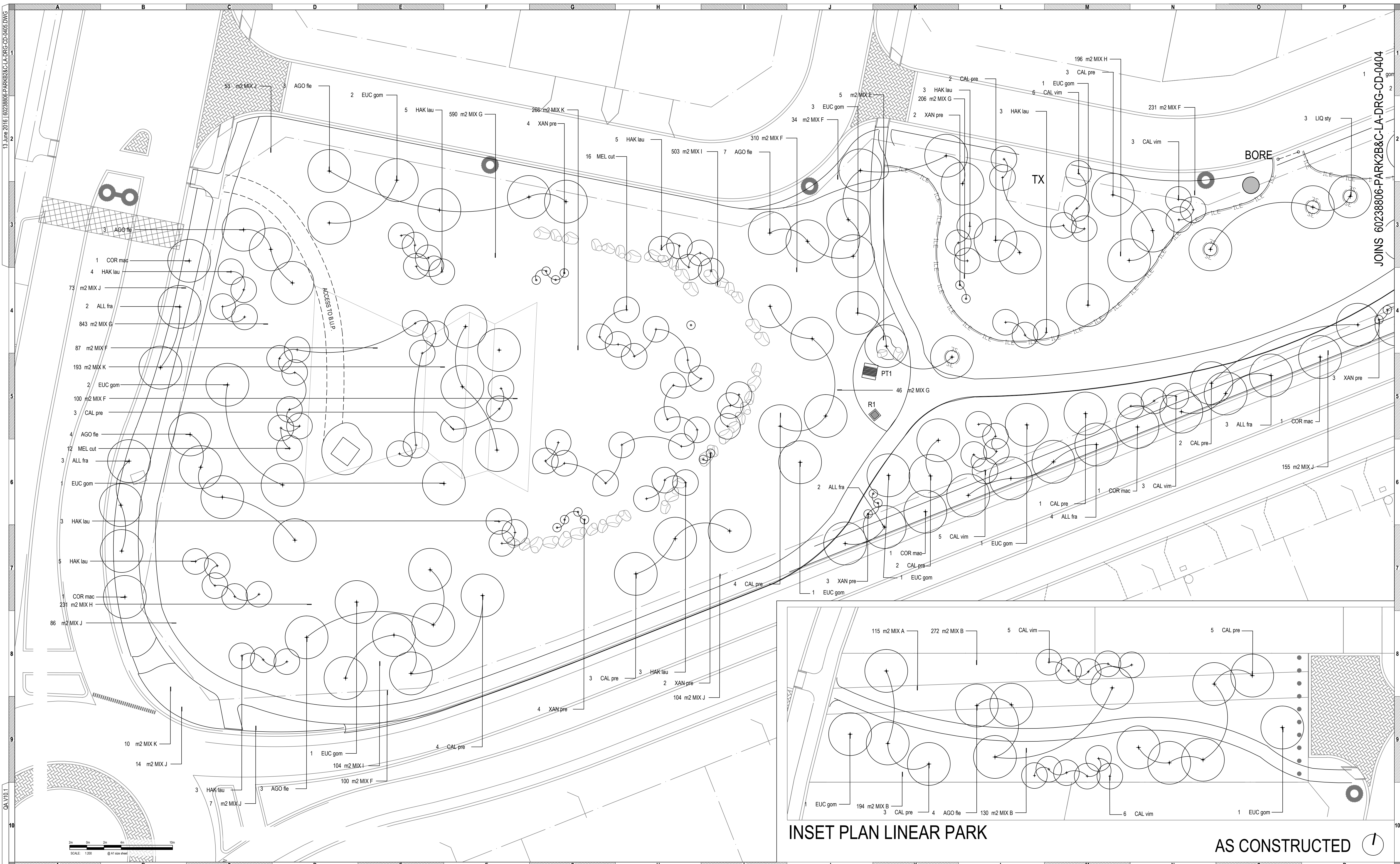
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INSET PLAN LINEAR PARK

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REFERENCES	DRAWING ID	REV	DATE	CONSULTANTS
CONSULTANT				

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CLIENT	LEND LEASE
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PROJECT NUMBER	60233806

SCALE	1:200 @ A1
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ISSUE

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JOINS 60233806-PARK2B&C-LA-DRG-CD-0404

**SOUTH ALKIMOS PLANT SCHEDULES
PARK U INITIAL GREEN STOCK REPORT**

QTY	SPECIFIED SIZE	SPECIES	SUBSTITUTE	COMMENTS
TREES - PARK				
23	200Lt	<i>Agonis flexuosa</i>		
2	400Lt	<i>Araucaria heterophylla</i>		
29	45Lt	<i>Banksia attenuata</i>		
19	45Lt	<i>Banksia grandis</i>		
53	45Lt	<i>Casuarina equisetifolia</i>		
23	200Lt	<i>Corymbia calophylla</i>		
12	200Lt	<i>Eucalyptus gomphocephala</i>		
34	200Lt	<i>Eucalyptus marginata</i>	<i>Eucalyptus gomphocephala</i>	
8	100Lt	<i>Melaleuca quinquenervia</i>		
14	100Lt	<i>Melaleuca preissiana</i>		
TREES - STREETScape				
35	200Lt	<i>Agonis flexuosa</i>		
9	200Lt	<i>Allocasuarina fraseriana</i>	<i>Allocasuarina littoralis</i>	
19	45Lt	<i>Banksia integrifolia</i>		
9	200Lt	<i>Eucalyptus gomphocephala</i>		
19	200Lt	<i>Corymbia maculata</i>		
17	45Lt	<i>Eucalyptus utilis</i>		
130mm - POS				
3490	130mm	<i>Callistemon 'Little John'</i>		
428	130mm	<i>Anigozanthos furcellata</i>	<i>Anigozanthos 'Big Red'</i>	
1155	130mm	<i>Banksia ashbyi</i>		
1155	130mm	<i>Banksia nivea</i>		
2362	130mm	<i>Agonis flexuosa var. nana</i>		
562	130mm	<i>Dianella caerulea 'Cassa Blue'</i>		
1682	130mm	<i>Acacia saligna Prostrate</i>		
2362	130mm	<i>Grevillea bipinnatifida</i>	50% <i>Grevillea olivacea 'Red'</i> & 50% <i>'Apricot Glow'</i>	<i>Grevillea olivacea</i> will be progressively removed during the maintenance period to avoid any CPTED issues.
2362	130mm	<i>Grevillea 'Robyn Gordon'</i>	<i>Grevillea 'Ella Bella'</i>	
1674	130mm	<i>Hakea lissocarpha</i>		
1674	130mm	<i>Hemiantra purgens</i>		
2233	130mm	<i>Leucophyta brownii</i>		
2233	130mm	<i>Melaleuca leuropoma craven</i>	<i>Melaleuca 'Little Nessie'</i>	
130mm - Streetscape				
1420	130mm	<i>Grevillea 'Robyn Gordon'</i>		
2613	130mm	<i>Dianella revoluta var. divaricata</i>	<i>Dianella 'Cassa Blue'</i>	
1329	130mm	<i>Leucophyta brownii</i>		
1057	130mm	<i>Grevillea obtusifolia</i>		
252	130mm	<i>Anigozanthos 'Yellow'</i>		
1172	130mm	<i>Myoporum insulare</i>		
222	130mm	<i>Grevillea crithmifolia 'Prostrate'</i>		
270	130mm	<i>Conostylis candidans</i>		
Tubes				
382	Tubestock	<i>Melaleuca incana nana</i>	<i>Banksia ashbyi 'Dwarf'</i>	
384	Tubestock	<i>Verticordia nitens</i>	<i>Chorizema varium</i>	<i>Chorizema varium</i>

NOTE: Number disparity between Park U For Construction Plant Schedule (Rev 1 - 17/07/14) and LD Total Green Stock Report (23/06/2015) is due to landscape areas being removed from Park U to the Front Lot Landscape Package and the Bio-retention basin being unplanted as of 23/06/2015. A final Greenstock report for Stage 1 will be produced after Bio-retention basin is completed.

- All trees to be certified and compliant to City's standards. Photographs shall be supplied by Arborist/ Nursery prior to construction/ planting.
- Ensure Crowns of all grasses are kept clear of all mulch.
- All planting to road verge to be setback min. 600mm from back of kerb. Refer to planting plans.
- Refer Specification for all soil and mulch requirements.
- Root Barrier will not be used in the streetscapes. Only specifically approved barriers can be installed to trees eg. where planted within 0.9m of sub-surface services or hardstand areas.
- All turf mounding to be maximum 1:6 grade.
- All planted slopes to be maximum 1:4 grade.
- Plant numbers on plan override those listed in Schedule. Should discrepancies occur, the contractor shall install the number of species shown on the plan.
- All grasses must have reached substantial growth prior to installation - young stock not suitable for the site installation will be rejected
- * Spacing between plants within the garden beds
- The above are shrub and groundcover plant counts are the same 130mm pot size.
- All species installed must be as per above schedule. Any variations from this schedule must be approved in writing prior to installation. Should incorrect
- Lepidosperma gladiatum shall not be planted on verges as it grows >0.6m at maturity and will block sight line requirements requirements. Specific City of Wanneroo Condition.
- Lomandra species shall not be planted next to pedestrian footpaths due to maintenance problems for the City of Wanneroo.
- Species shown in mixes are to be planted randomly and in groupings of 3 or 5 of one species only.
- Corymbia maculata*, *Corymbia Callophylla*, *Eucalyptus gomphocephala* and *Eucalyptus marginata* shall be planted a minimum of 2.5m from all hardstands and furniture.

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1 November 2012 | L-60238806-PK-U-DRG

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REFERENCES

CONSULTANT

DRAWING ID

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DATE

CONSULTANTS

CIVIL ENGINEERS

SURVEYOR

COSSILL & WEBLEY

WHELANS

08 9422 5800

08 9443 1511

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AMENDMENT

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A 28/05/14

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1 17/07/14

ISSUE FOR CONSTRUCTION

SH

2 25/09/14

IFC ADDITIONAL LEVELS

FM

3 6/23/2015

AS CONSTRUCTED STAGE 1

FM

CLIENT

LEND LEASE

SCALE

NA

DRAWN

JS

PROJECT

SOUTH ALKIMOS BEACH

PARK U

DRAWING TITLE

LANDSCAPE

PLANT SCHEDULE

DRAWING NUMBER

60238806-PK-U-LA-DRG-CD-0003

ISSUE

3

PROJECT NUMBER

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Appendix 5

Tracking against planting targets

Alkimos Beach - Estate Native Trees and Shrubs Target

Trees & Shrubs For Carnaby's Black Cockatoo - Tracking Spreadsheet (vers. E)

Botanical Name	Common Name	Locally Native	Australian Native	Plants for Carnabys*	Seed Collected	PRECINCT 1											PRECINCT 2				
						Stage 1 - Park B	Stage 1 - Park A	Stage 1 - Graceful Bvd	Stage 1 - SIC	Stage 1 - Pink Species	Stage 1 - LAD 29	Stage 2 Streetscape	Marmion Ave & Entry	Stage 3 & 4	Stage 5 & 6 - Graceful Bvd	Stage 7 - Graceful Bvd	Stage 10 - Park U + Streetscape (Fairy Pde)	Stage 7 - Park F	Stage 11 - Parks B2&C	Leatherback Four Packs	Marmion Avenue Entry Threshold
Year Entered						2013	2013	2013	2012	2012	2013	2013	2013	2013	2014	2014	2014	2014	2015	2015	2015
Greenstock Report						<u>2</u>	<u>1</u>	<u>3</u>	<u>5</u>	<u>6</u>	<u>9</u>	<u>4</u>	<u>8</u>	<u>7</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>14</u>	<u>15</u>	<u>13</u>	<u>16</u>
TREES																					
<i>Agonis flexuosa</i>	WA Peppermint	Y	Y	Y	N	6	9							1		10	58	46	71		
<i>Allocasuarina fraseriana</i>	Common Sheoak	Y	Y	Y	Y							4									
<i>Allocasuarina littoralis</i>	Black Sheoak / River Black Oak	N	Y	N	N												9				
<i>Araucaria columnaris</i>	Cook Island Pine	N	N	N	N																
<i>Araucaria heterophylla</i>	Norfolk Island Pine	N	N	Y	N	13	6	3						10			2				
<i>Banksia attenuata</i>	Candlestick (Biara) Banksia	Y	Y	Y	N												29				
<i>Banksia grandis</i>	Bull Banksia	Y	Y	Y	N												19				
<i>Banksia integrifolia</i>	Coast Banksia	Y	Y	N	N												19				
<i>Callitris preissii</i>	Cypress Pine	Y	Y	Y	N	8												47	91		
<i>Callistemon Kings Park Special</i>	Bottlebrush	Y	Y	Y	N															37	
<i>Casuarina equisetifolia</i>	Horse Tail Sheoak	Y	Y	N	N	111	27						79	38			53				
<i>Casuarina obesa</i>	Swamp Sheoak	Y	Y	N	N		5	90									23	26	29		
<i>Casuarina fraserian</i>		Y	Y	N	N													23			
<i>Corymbia calophylla</i>	Marri	Y	Y	Y	N												23				
<i>Corymbia ficifolia</i>	Red Flowering gum	Y	Y	Y	N																
<i>Corymbia maculata</i>	Spotted gum	N	Y	Y	N	20		9					2	8			19		63		
<i>Erithrina indica</i>	Coral Tree	Y	Y	N	N				3												
<i>Eucalyptus marginata</i>	Jarrah	Y	Y	Y	N																
<i>Eucalyptus gomphocephala</i>	Tuart	Y	Y	Y	Y	3	3	83					4	6	6		13	55			
<i>Eucalyptus sideroxylon</i>	Ironbark	Y	Y	N	N			33									8				
<i>Eucalyptus tottiana</i>	Coastal Blackbutt	Y	Y	Y	N															9	
<i>Eucalyptus utilis</i>	Coastal Moort	Y	Y	N	N	5		7					6	10			17				
<i>Eucalyptus victrix</i>	Coolibar	N	Y	N	N														9		
<i>Ficus macrophylla</i>	Morton Bay Fig	N	Y	Y	N	3															
<i>Hakea laurina</i>	Pincusion Haekea	Y	Y	Y	N									14				40			
<i>Liquidambar styraciflua</i>	Liquidambar	N	N	Y	N												8	10			
<i>Macadamia integrifolia</i>	Macadamia	N	Y	Y	N													15			
<i>Melaleuca armillaris</i>	Bracelet Honey Myrtle	N	Y	N	N														28		
<i>Melaleuca lanceolata</i>	Rottnest Island Tea	Y	Y	N	N	21												29	2	10	
<i>Melaleuca quinquenervia</i>	Broad-leaved	N	Y	N	N	11	13	43						8		27	8	18			
<i>Melaleuca preissiana</i>	Swamp Tea Tree	Y	Y	N	N												14	24			
<i>Morus pendula alba</i>	Mulberry	N	N	N	N	1															
<i>Metrosideros thomasi</i>	New Zealand Christmas	N	N	N	N									17							
<i>Olea europaea</i>	Olive	N	N	N	N									5							
<i>Santalum acuminatum</i>	Native Peach (Quandong)	Y	Y	N	N																
<i>Tipuana Tipu</i>	Tipuana	N	N	Y	N			49						8					14		
<i>Xanthorrhoea preissii</i>	Grass tree	Y	Y	Y	Y				27										20	85	
SHRUBS / GRASSES / GROUNDCOVERS																					
<i>Acacia drummondii</i>		Y	Y	N	Y	116															
<i>Acacia lasiocarpa</i>		Y	Y	N	Y		142	976							102			784	2,226		
<i>Acacia saligna Prostrate</i>	Dwarf Orange Wattle	Y	Y	Y	Y													1682		63	
<i>Acanthocarpus preissii</i>		Y	Y	N	Y														374	605	
<i>Agonis flexuosa nana</i>	Dwarf WA Peppermint	Y	Y	Y	Y									122				2362			
<i>Alyogyne 'Blue Heeler'</i>	Native Hibiscus	Y	Y	N	Y			174													
<i>Alyogyne 'Mellissa Anne'</i>	Lilac Hibiscus	Y	Y	N	Y								360								
<i>Anigozanthos rufus 'Big Red'</i>	Red Kangaroo Paw	Y	Y	N	Y													428	10		
<i>Anigozanthos 'Yellow Gem'</i>	Yellow Kangaroo Paw	Y	Y	N	Y	142		160			100			138				252			
<i>Anigozanthos flavidus 'Red'</i>		Y	Y	N	Y			135													
<i>Atriplex cinerea</i>		Y	Y	N	Y	278													1249	2,379	
<i>Atriplex isatidea</i>		Y	Y	N	Y																
<i>Atriplex nummularia</i>		Y	Y	N	Y									224							
<i>Baeckea virgata nana</i>		Y	Y	N	Y											274					
<i>Banksia ashbyi</i>	Ashby's Banksia	Y	Y	Y	Y													1155			
<i>Banksia ashbyi dwarf</i>	Dwarf Ashby's Banksia	Y	Y	Y	Y													382		779	

Total (Public Realm)	Plants for Carnabys
201	201
4	4
9	
0	
34	34
29	29
19	19
19	
146	146
37	37
308	
173	
23	
23	23
0	0
121	121
3	
0	0
173	173
41	
9	9
45	
9	
3	3
54	54
18	18
15	15
28	
62	
128	
38	
1	
17	
5	
0	
71	71
132	132
116	
4230	
1745	1745
979	
2484	2484
174	
360	
438	
792	
135	
3906	
0	
224	
274	
1155	1155
1161	1161

Botanical Name	Common Name	Locally Native	Australian Native	Plants for Carnabys*	Seed Collected	Stage 1 - Park B	Stage 1 - Park A	Stage 1 - Graceful Bvd	Stage 1 - SIC	Stage 1 - Pink Species	Stage 1 - LAD 29	Stage 2 Streetscape	Marmion Ave & Entry	Stage 3 & 4	Stage 5 & 6 - Graceful Bvd	Stage 7 - Graceful Bvd	Stage 10 - Park U + Streetscape (Fairy Pde)	Stage 7 - Park F	Stage 11 - Parks B2&C	Leatherback Four Packs	Marmion Avenue Entry Threshold	
<i>Banksia hookeriana</i>	Hookers Banksia	Y	Y	Y	Y									130								
<i>Banksia menziesii</i>	Firewood Banksia	Y	Y	Y	Y			54														
<i>Banksia nivea</i>	Dryandra	Y	Y	Y	Y									251			1155					
<i>Banksia prionotes Dwarf</i>	Dwarf Acorn Banksia	Y	Y	Y	Y									82								
<i>Banksia sessilis</i>	Parrot Bush	Y	Y	Y	Y																-	
<i>Billardaria fusiformis</i>	Australian Bluebell	Y	Y	N	Y	511															-	
<i>Boronia crenulata 'Pink Passion'</i>	Boronia	Y	Y	N	Y	69								60							-	
<i>Carex appressa</i>		Y	Y	N	Y													968	494		-	
<i>Carpobrotus virescens</i>	Coastal Pigface	Y	Y	N	Y			200							696			374	2,552	101		
<i>Carpobrotus glaucescens 'Aussie Rambler'</i>	Pigface	N	Y	N	Y			400														
<i>Chorizema cordatum</i>	Pea	Y	Y	N	Y													374			-	
<i>Chorizema varium</i>	Limestone Pea	Y	Y	N	Y												384				-	
<i>Chrysocephalum Desert Flame</i>		Y	Y	N	Y			415		60				80							-	
<i>Conostylis candicans</i>		Y	Y	N	Y		164	745				36		186	1969	908	270	794	2,226		-	
<i>Callistemon salignus 'Great Balls of Fire'</i>	Bottlebrush	Y	Y	N	Y			359		192											-	
<i>Callistemon 'Little John'</i>	Little John Bottlebrush	Y	Y	N	Y			1445					464	377	863	908	3490				-	
<i>Callistemon viminalis 'Matthew Flinders'</i>	Bottlebrush	N	Y	Y	Y									172	590						-	
<i>Calothamnus quadrifidus</i>	Onse Sided Bottle Brush	Y	Y	N	Y	337	251			95								2179	1,718	162		
<i>Chamelaucium uncinatum 'My sweet 16'</i>	Wax	Y	Y	N	Y			926										326				
<i>Chamelaucium uncinatum</i>	Geraldton Wax	Y	Y	N	Y								236									
<i>Conospermum stoechadis</i>		Y	Y	N	Y														723			
<i>Dampiera cuneata</i>		Y	Y	N	Y	97																
<i>Dampiera linearis Blue</i>		Y	Y	N	Y							293										
<i>Dianella caerulea 'Cassa Blue'</i>	Cassa Blue	N	Y	N	Y												3175	1249	270			
<i>Dianella 'Little Rev'</i>	Dianella	Y	Y	N	Y	75	36	823						849								
<i>Dianella 'Revelation'</i>	Dianella	Y	Y	N	Y			126				10		796								
<i>Dianella revoluta 'Revelation'</i>	Dianella	Y	Y	N	Y									886	282		1097					
<i>Dianella 'Tasred'</i>	Dianella	N	Y	N	Y					350	41		347									
<i>Dianella caerulea 'Ruby Green'</i>	Dianella	Y	Y	N	Y																	1,164
<i>Dietes bicolor</i>	Yellow Iris	N	N	N	Y						300											300
<i>Dietes iridoides</i>	Wood Iris	N	N	N	Y					250												250
<i>Ficinia nodosa</i>	Club Rush	Y	Y	N	Y	285							515	228				968	494			2490
<i>Frankenia pauciflora</i>		Y	Y	N	Y													1249				1249
<i>Eutaxia obovata nana</i>		Y	Y	N	Y		113															113
<i>Eremophila 'Amber Carpet'</i>	Tar Bush	Y	Y	Y	Y			869								2428						3297
<i>Eremophila glabra 'Silver Flame'</i>	Tar Bush	Y	Y	Y	Y																	0
<i>Eremophila glabra</i>	Emu Bush	Y	Y	Y	Y														898	101		999
<i>Eremophila glabra 'Kalbarri Carpet'</i>	Tar Bush	Y	Y	Y	Y		234	2002				554	319					326				3435
<i>Eremophila glabra Roseworthy</i>	Emu or Tar Bush	Y	Y	Y	Y									1647								1647
<i>Eremophila glabra 'Kalbarri Carpet'</i>	Emu or Tar Bush	Y	Y	Y	Y									1482	274							1756
<i>Eremophila glabra 'Kalbarri Red'</i>	Emu or Tar Bush	Y	Y	Y	Y													84				84
<i>Eremophila glabra 'Ballala Gold'</i>	Yellow Flower	Y	Y	Y	Y	594																594
<i>Eremophila glabra prostrata</i>	Prostrate Tar Bush	Y	Y	Y	Y			1217														1217
<i>Eremophila glabra 'Silver Flame'</i>	Silver Flame Tar Bush	Y	Y	Y	Y		63															63
<i>Eremophila glabra 'Green & Gold'</i>	Tar Bush	Y	Y	Y	Y									102								102
<i>Eremophila maculata 'Lemon Delight'</i>	Tar Bush	Y	Y	N	Y															81		81
<i>Eremophila nivea 'Spring Mist'</i>	Tar Bush	Y	Y	N	Y	218	90	135						42	193	104		784				1566
<i>Eremophila densifolia 'Purple Carpet'</i>	Tar Bush	Y	Y	N	Y																	679
<i>Gastrobium capitatum</i>		Y	Y	N	Y														334			334
<i>Gazania montezuma</i>		N	N	N						40												40
<i>Grevillea bipinnatifida</i>	Fuschia Grevillea	Y	Y	Y	Y																	0
<i>Grevillea crithmifolia</i>	Grevillea prostrate	Y	Y	N	Y		14	1658				97	1155	1230	449	104	222	2020				6949
<i>Grevillea thelemanniana 'Gilt Dragon'</i>	Guilt Dragon Grevillea	Y	Y	N	Y	116																116
<i>Grevillea thelemanniana 'Red Lantern'</i>	Red Lantern Grevillea	Y	Y	N	Y			218														218
<i>Grevillea 'Robyn Gordon'</i>		Y	Y	N	Y												1420					1420
<i>Grevillea 'Ella Bella'</i>		Y	Y	N	Y												2362		3,980			6342
<i>Grevillea obtusifolia</i>	Gin Gin Gem	Y	Y	N	Y	664	220	883				15		539		274	1057	326	933			4911
<i>Grevillea olivacea</i>		Y	Y	N	Y			174									2362			465		3001
<i>Grevillea thelemanniana</i>		Y	Y	N	Y													968	494	162		1624

Total (Public Realm)	Plants for Carnabys
130	130
54	54
1406	1406
82	82
0	0
511	
129	
1462	
3923	
400	
374	
384	
555	
7298	
551	
7547	
762	762
4742	
1252	
236	
723	
97	
293	
4694	
1783	
932	
2265	
738	
1164	
300	
250	
2490	
1249	
113	
3297	3297
0	0
999	999
3435	3435
1647	1647
1756	1756
84	84
594	594
1217	1217
63	63
102	102
81	
1566	
679	
334	
40	
0	0
6949	
116	
218	
1420	
6342	
4911	
3001	
1624	

Botanical Name	Common Name	Locally Native	Australian Native	Plants for Carnabys*	Seed Collected	Stage 1 - Park B	Stage 1 - Park A	Stage 1 - Graceful Bvd	Stage 1 - SIC	Stage 1 - Pink Species	Stage 1 - LAD 29	Stage 2 Streetscape	Marmion Ave & Entry	Stage 3 & 4	Stage 5 & 6 - Graceful Bvd	Stage 7 - Graceful Bvd	Stage 10 - Park U + Streetscape (Fairy Pde)	Stage 7 - Park F	Stage 11 - Parks B2&C	Leatherback Four Packs	Marmion Avenue Entry Threshold	
<i>Hardenbergia comptoniana</i>	Native Wisteria	Y	Y	N	Y	90		74											334	-		
<i>Hardenbergia 'Meema'</i>	Native Wisteria	Y	Y	N	Y					256			465								-	1,829
<i>Hardenbergia 'Purple Spray'</i>	Native Wisteria	Y	Y	N	Y								410								-	
<i>Hibbertia aurea</i>		Y	Y	N	Y														54			
<i>Hibbertia grossularifolia</i>		Y	Y	N	Y													784				
<i>Hibbertia hypericoides</i>	Yellow Buttercup	Y	Y	N	Y														54			
<i>Hibbertia subvaginata</i>		Y	Y	N	Y														1,267			
<i>Hibbertia racemosa</i>		Y	Y	N	Y													759	54			
<i>Hibbertia spicata</i>		Y	Y	N	Y													386				
<i>Hakea huegelii</i>		N	Y	N	Y														54			
<i>Hakea lissocarpa</i>	Honeybush	Y	Y	Y	Y												1674					
<i>Hakea trifurcata</i>	Two Leaved Hakea	Y	Y	Y	Y													374	605			
<i>Hakea varia</i>	Variable Leaved Hakea	Y	Y	Y	Y														1,447			
<i>Hemiandra pungens</i>	Snakebush	Y	Y	N	Y													1674	2179			
<i>Juncus kraussii</i>	Sea Rush	Y	Y	N	Y														968			
<i>Juncus pallidus</i>	Pale Rush	Y	Y	N	Y														968			
<i>Lepidosperma calcicola</i>	Sedge	Y	Y	N	Y														968	188		
<i>Lepidosperma sp.</i>	Sedge	Y	Y	N	Y																	
<i>Lepidosperma gladiatum</i>	Sword sedge	Y	Y	N	Y	55							515	576					2020	5,254		
<i>Lepidosperma squamatum</i>		Y	Y	N	Y														188			
<i>Leucophyta brownii</i>	Cusion Bush	Y	Y	N	Y		220					10	792	422			3562	771	4,605			
<i>Leucophyta brownii 'Canal Rocks'</i>	Canal Rocks Cusion Bush	Y	Y	N	Y		66															
<i>Lomandra 'Katrinas Deluxe'</i>		Y	Y	N	Y																	1,165
<i>Lomandra longifolia</i>		Y	Y	N	Y														1,213			
<i>Lomandra longifolia 'Little Con'</i>		N	Y	N	Y	110																
<i>Lomandra 'Nyalla'</i>		Y	Y	N	Y															151		
<i>Lomandra longifolia 'Tanika'</i>		N	Y	N	Y	716	243															
<i>Lomandra 'Wingarra'</i>		Y	Y	N	Y								515									
<i>Melaleuca 'Little Nessie'</i>		Y	Y	N	Y			409									2233					
<i>Melaleuca pentagona 'Little Penta'</i>		Y	Y	N	Y		70			100												
<i>Melaleuca cuticularis</i>		Y	Y	N	Y														482			
<i>Melaleuca huegelii</i>		Y	Y	N	Y	48	60											1249				
<i>Melaleuca incana nana</i>		Y	Y	N	Y			410	320			277										
<i>Melaleuca linariifolia 'Little Red'</i>	Honey Myrtle , Little Red Honey	N	Y	N	Y			540	224			464										
<i>Melaleuca megacephala</i>		Y	Y	N	Y														933			
<i>Melaleuca pulchella</i>		Y	Y	N	Y														1,695			
<i>Melaleuca systena (=Melaleuca acerosa)</i>		Y	Y	N	Y			977										771	752			
<i>Myoporum insulare 'Coastal Rambler'</i>		Y	Y	N	Y	218	370						1155	575	1326		1172	374				
<i>Myoporum parvifolium</i>		Y	Y	N	Y		30					22							2,713			
<i>Myoporum 'Yareena'</i>		Y	Y	N	Y			472					1155									
<i>Olearia 'Ghost Town'</i>	Daisy Bush	Y	Y	N	Y	742													784			
<i>Olearia axillaris 'Little Silver'</i>	Daisy Bush	Y	Y	N	Y								554	513								
<i>Olearia axillaris 'Little Smokie'</i>	Daisy Bush	Y	Y	N	Y	691													724			
<i>Origanum vulgare</i>	Oregano	Y	Y	N	Y									30								
<i>Patersonia occidentalis</i>		Y	Y	N	Y		119	825												101		
<i>Pimelia ferruginea</i>		Y	Y	N	Y									406				784	779			
<i>Rhagodia baccata</i>		Y	Y	N	Y														784	779		
<i>Rhaphiolepis indica 'Cosmic Pink'</i>		N	N	N	Y					64												
<i>Ricinocarpus 'Bridal Star'</i>	Wedding Bush	Y	Y	N	Y			116														
<i>Rosmarinus 'Tuscan Blue'</i>	Rosemary	Y	Y	N	Y									31								
<i>Salvia officinalis (Sage)</i>	Sage	Y	Y	N	Y									30								
<i>Santalum accuminatum</i>	Quandong	Y	Y	N	Y														20			
<i>Scaevola nitida 'Aussie Spirit'</i>	Fan Flower	N	Y	N	Y																	500
<i>Scaevola 'Blue Print'</i>	Fan Flower	Y	Y	N	Y					320												
<i>Scaevola crassifolia</i>	Fan Flower	Y	Y	N	Y	388								204				1623	3,102	126		
<i>Scaevola albida 'Mauve Cluster'</i>	Fan Flower	N	Y	N	Y					320												
<i>Scaevola aemula 'Purple Fanfare'</i>	Fan Flower	N	Y	N	Y					128												
<i>Scaevola 'Super Cluster'</i>	Fan Flower	Y	Y	N	Y			184														
<i>Spinifex longifolius</i>		Y	Y	N	Y													771	2,966			

Total (Public Realm)	Plants for Carnabys
498	
2550	
410	
54	
784	
54	
1267	
813	
386	
54	
1674	1674
979	979
1447	1447
3853	
968	
968	
1156	
0	
8420	
188	
10382	
66	
1165	
1213	
110	
151	
959	
515	
2642	
170	
482	
1357	
1007	
1228	
933	
1695	
2500	
5190	
2765	
1627	
1526	
1067	
1415	
30	
1045	
1969	
1563	
64	
116	
31	
30	
20	
500	
320	
5443	
320	
128	
184	
3737	

Appendix 6

Practical completion reports

Certificate of Practical Completion

ALKIMOS BEACH – PARK F

Attention	Wills Pendergast	File No.
Company	LD Total	Date 14-Oct-2015
Address	64 Mill Point Road South Perth, WA 6151	Total Page 2
Project Name	South Alkimos Beach Park F	Project No. 60238806
Fax No./Email	willsp@ldtotal.com.au	
Attendees	Mark Wilson Brooke Fisher Julian Croudace Nick Zulberti Chelsea Timms Michelle Meuwese	

'Cc' Distribution Details

Attention	Organisation	Fax No.
Peter Blackall	Lend Lease	Peter.Blackall @lendlease.com
Laura Swinton	Lend Lease	Laura.Swinton@lendlease.com
Mark Wilson	LD Total	MarkW@ldtotal.com.au
Brooke Fisher	LD Total	BrookeF@ldtotal.com.au
Chelsea Timms	City of Wanneroo	Chelsea.Timms@wanneroo.wa.gov.au
Michelle Meuwese	City of Wanneroo	Michalle.Meuwese@wanneroo.wa.gov.au

This Consultant's Certificate is given in relation to the Agreement entered into between LD TOTAL (Sanpoint Pty Ltd) [ACN 62 052 314 682] and Lend Lease Communities (Alkimos) Pty Ltd [ACN 145 185 468] in respect of the above project. AECOM hereby certifies that;

- The Project has been periodically inspected by AECOM consultants and;
- The Project has been constructed in accordance with the following design documents prepared by AECOM;

Landscape Documents

60238806-ST7-LA-DRG-CD-0001	1	Landscape Cover Sheet
60238806-ST7-LA-DRG-CD-0002	2	Legend
60238806-ST7-LA-DRG-CD-0003	1	Planting Schedule
60238806-ST7-LA-DRG-CD-0201	1	Setout Plan
60238806-ST7-LA-DRG-CD-0202	1	Setout Plan
60238806-ST7-LA-DRG-CD-0203	2	Setout Plan

Landscape Documents		
60238806-ST7-LA-DRG-CD-0204	2	Setout Plan
60238806-ST7-LA-DRG-CD-0301	1	Surface Finishes
60238806-ST7-LA-DRG-CD-0302	1	Surface Finishes
60238806-ST7-LA-DRG-CD-0303	2	Surface Finishes
60238806-ST7-LA-DRG-CD-0304	2	Surface Finishes
60238806-ST7-LA-DRG-CD-0401	1	Planting Plan
60238806-ST7-LA-DRG-CD-0402	1	Planting Plan
60238806-ST7-LA-DRG-CD-0403	2	Planting Plan
60238806-ST7-LA-DRG-CD-0404	2	Planting Plan
60238806-ST7-LA-DRG-CD-0801	1	Enlargement Plan – Shelter Area
60238806-ST7-LA-DRG-CD-0802	1	Enlargement Plan – Play Area
60238806-ST7-LA-DRG-CD-0901	1	Hardworks Details
60238806-ST7-LA-DRG-CD-0902	2	Hardworks Details
60238806-ST7-LA-DRG-CD-0903	1	Hardworks Details
60238806-ST7-LA-DRG-CD-0904	1	Hardworks Details
60238806-ST7-LA-DRG-CD-0951	1	Softworks Details
60238806-ST7-LA-DRG-CD-0952	1	Softworks Details

Pursuant to the Contract Conditions, inspection of the works has been carried out, and notice is hereby given that the works as defined within the Contract have reached a stage of PRACTICAL COMPLETION as at 8th of October 2015.

The defects liability period (DLP) of 52 weeks and maintenance period of 104 weeks shall commence from this date. A list of defects identified for rectification during the DLP is attached for reference only and does not influence the award of Practical Completion.

Yours faithfully



Julian Croudace

Associate Director | Landscape Architect
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Mobile: 0438 997 204
Direct Dial: +61 8 6208 0134
Direct Fax: +61 8 6208 0999

Certificate of Practical Completion

ALKIMOS BEACH – PARK B2 & C

Attention	Wills Pendergast	File No.
Company	LD Total	Date 14-Oct-2015
Address	64 Mill Point Road South Perth, WA 6151	Total Page 2
Project Name	South Alkimos Beach Park B2 & C	Project No. 60238806
Fax No./Email	willsp@ldtotal.com.au	
Attendees	Mark Wilson Brooke Fisher Julian Croudace Nick Zulberti Chelsea Timms Michelle Meuwese	

'Cc' Distribution Details

Attention	Organisation	Fax No.
Peter Blackall	Lend Lease	Peter.Blackall @lendlease.com
Laura Swinton	Lend Lease	Laura.Swinton@lendlease.com
Mark Wilson	LD Total	MarkW@ldtotal.com.au
Brooke Fisher	LD Total	BrookeF@ldtotal.com.au
Chelsea Timms	City of Wanneroo	Chelsea.Timms@wanneroo.wa.gov.au
Michelle Meuwese	City of Wanneroo	Michalle.Meuwese@wanneroo.wa.gov.au

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Landscape Documents

Document ID	Quantity	Description
60238806-PARKB2&C-LA-DRG-CD-0001	2	Landscape Cover Sheet
60238806-PARKB2&C-LA-DRG-CD-0002	2	Legend
60238806-PARKB2&C-LA-DRG-CD-0003	2	Planting Schedule
60238806-PARKB2&C-LA-DRG-CD-0201	2	Surface Finishes
60238806-PARKB2&C-LA-DRG-CD-0202	2	Surface Finishes
60238806-PARKB2&C-LA-DRG-CD-0203	2	Surface Finishes
60238806-PARKB2&C-LA-DRG-CD-0204	2	Surface Finishes

Landscape Documents		
60238806-PARKB2&C-LA-DRG-CD-0205	2	Surface Finishes
60238806-PARKB2&C-LA-DRG-CD-0301	2	Setout Plan
60238806-PARKB2&C-LA-DRG-CD-0302	2	Setout Plan
60238806-PARKB2&C-LA-DRG-CD-0303	2	Setout Plan
60238806-PARKB2&C-LA-DRG-CD-0304	2	Setout Plan
60238806-PARKB2&C-LA-DRG-CD-0305	2	Setout Plan
60238806-PARKB2&C-LA-DRG-CD-0401	2	Planting Plan
60238806-PARKB2&C-LA-DRG-CD-0402	2	Planting Plan
60238806-PARKB2&C-LA-DRG-CD-0403	2	Planting Plan
60238806-PARKB2&C-LA-DRG-CD-0404	2	Planting Plan
60238806-PARKB2&C-LA-DRG-CD-0405	2	Planting Plan
60238806-PARKB2&C-LA-DRG-CD-0901	2	Landscape Details
60238806-PARKB2&C-LA-DRG-CD-0902	2	Landscape Details
60238806-PARKB2&C-LA-DRG-CD-0903	2	Landscape Details
60238806-PARKB2&C-LA-DRG-CD-0904	2	Landscape Details
60238806-PARKB2&C-LA-DRG-CD-0951	2	Landscape Details

Pursuant to the Contract Conditions, inspection of the works has been carried out, and notice is hereby given that the works as defined within the Contract have reached a stage of PRACTICAL COMPLETION as at 8th of October 2015.

The defects liability period (DLP) of 52 weeks and maintenance period of 104 weeks shall commence from this date. A list of defects identified for rectification during the DLP is attached for reference only and does not influence the award of Practical Completion.

Yours faithfully



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