# EAST TO WEST AND NORTH TO SOUTH OPEN CHANNEL

## Jordan Springs Openspace Development

*Landscape Drawings*

*prepare for*

Lend Lease

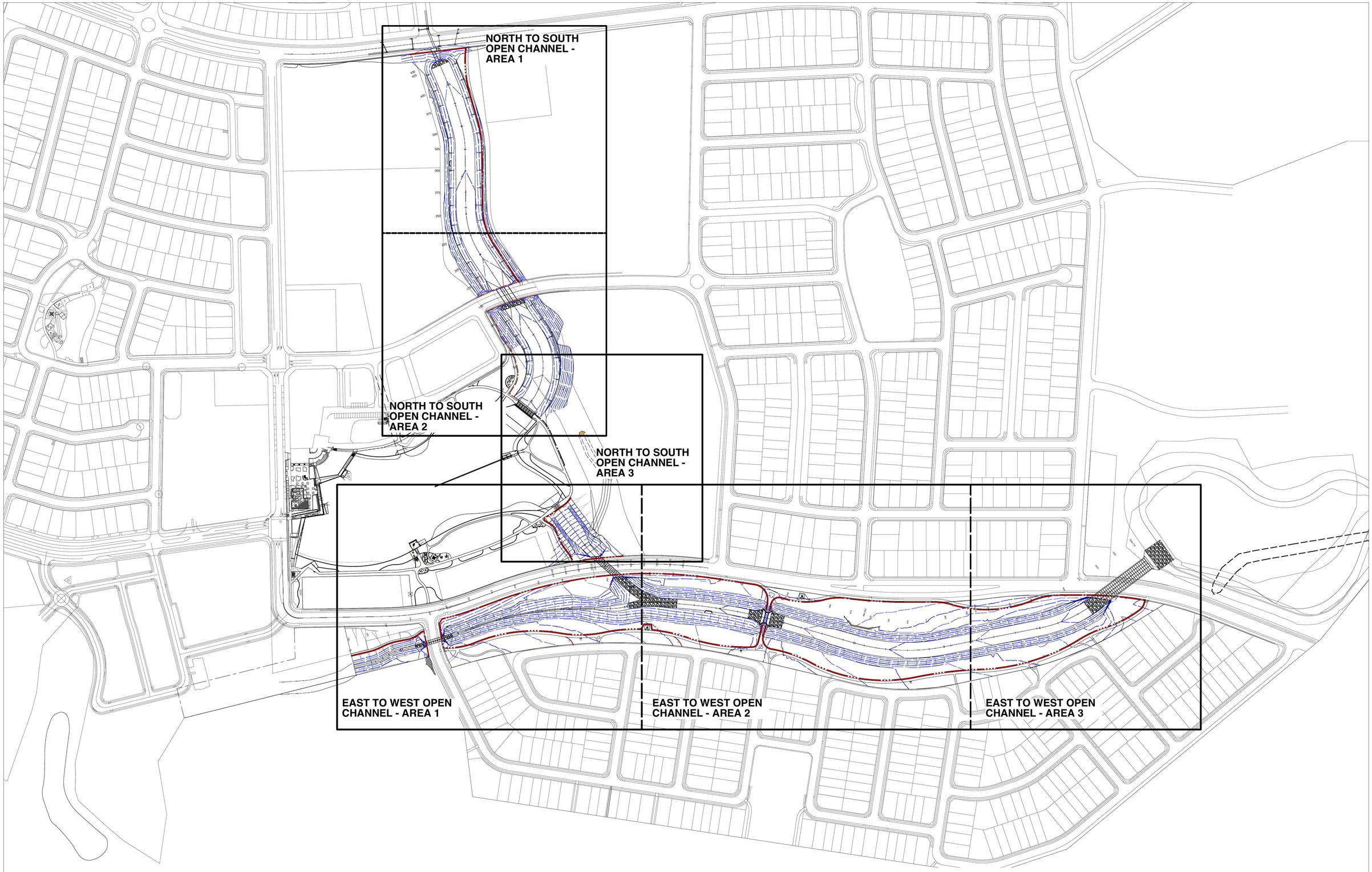
**Lend Lease**

*prepare by*

**Environmental Partnership**
Suite 3:01 22-36 Mountain St Ultimo NSW 2007
Ph: (02) 9281 7007 Fax: (02) 9281 7222
Email: admin@epnsw.com.au
ABN 53 088 175 437

**DRAWING SCHEDULE** JUNE 14

| Drawing | Title | Issue |
|---|---|---|
| | **General** | |
| 3306-GE01 | Key Plan | D |
| 3306-GE02 | Tree Retention and Removal Plan | D |
| 3306-GE03 | Legends and Notes | D |
| | **East to West Open Channel** | |
| 3306-EW01 | Construction Works Plan - Area 1 | D |
| 3306-EW02 | Construction Works Plan - Area 2 | D |
| 3306-EW03 | Construction Works Plan - Area 3 | D |
| 3306-EW04 | Planting and Revegetation Plan - Area 1 | D |
| 3306-EW05 | Planting and Revegetation Plan - Area 2 | D |
| 3306-EW06 | Planting and Revegetation Plan - Area 3 | D |
| | **North to South Open Channel** | |
| 3306-NS01 | Construction Works Plan - Area 1 & 2 | D |
| 3306-NS02 | Construction Works Plan - Area 3 | D |
| 3306-NS03 | Planting and Revegetation Plan - Area 1 & 2 | D |
| 3306-NS04 | Planting and Revegetation Plan - Area 3 | D |
| | **Landscape Works Details** | |
| 3306-D01 | Riparian Corridor Details - sheet 1 | C |
| 3306-D02 | Riparian Corridor Details - sheet 2 | C |
| 3306-D03 | Riparian Corridor Details - sheet 3 | C |
| 3306-D04 | Riparian Corridor Details - sheet 4 | C |
| 3306-D05 | Riparian Corridor Details - sheet 5 | C |




GENERAL NOTES:

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| D | MINOR UPDATES FOR CC | BL | 19.06.14 |
| C | FOR CC | BL | 09.04.14 |
| B | LIGHTING LOCATIONS ADDED | BL | 05.03.14 |
| A | FOR REVIEW | BL | 18.02.14 |

| | | |
|---|---|---|
| DESIGNED: EP | DATE: FEB 14 | APPROVED: |
| DRAWN: BL | DATE: FEB 14 | APPROVED: |
| CHECKED: AH | DATE: FEB 14 | APPROVED: |

PREPARED FOR:

Lend Lease

LANDSCAPE ARCHITECTS AND URBAN DESIGNERS:

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PROJECT:

**East to West and North to South Open Channel Jordan Springs Openspace Development**

DRAWING TITLE:

**Key Plan**

DATE: **JUNE 2014**

SCALE: 1:2000 (@A1)

ISSUE: **D**

DRAWING NO: **3306.GE01**

JORDAN SPRINGS

0 50 100 M

Existing trees to be protected

Existing trees to be removed
Note: Harvest felled tree trunks and locate to revegetation areas as directed by the Superintendent

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PROJECT:

**East to West and North to South Open Channel**
**Jordan Springs Openspace Development**

DRAWING TITLE:

**Tree Retention and Removal Plan**

JORDAN SPRINGS

0 50 100 M

DATE: **JUNE 2014**

SCALE: 1:2000 (@A1)

ISSUE: **D**

DRAWING NO: **3306.GE02**

# LEGEND

**Generally**

Existing trees to be protected

Existing trees to be removed
Note: Harvest felled tree trunks and locate to revegetation areas as directed by the Superintendent

Spot tree plantings

**Setout and Levels**

33.0 — Proposed 0.5m design contours
Refer Engineers drawings

2000 — Dimensions in millimetres - setout on site and request approval by Superintendent prior proceeding with works

M124 — Setout coordinates - refer setout schedule GE.03

FL 35.50 — Finished levels

fall 1:80 — Nominal 1:80 fall to pavement
Note where no fall indicated all pathways to have nominal 1:80 crossfall

**Note:**
• Existing contours will be supeceded by road (kerbline) design levels along edge of corridor.
• Junction of open space design (proposed) contours with kerbline are based on kerb design levels

**Channel Base Zone**
- Planted and stabilised channel base ("MaxBio" erosion control matting)

**Embankment Zone**
- Groundcovers at 6 / m2
- Scattered spot tree planting
- "Jutemaster thick" erosion control matting
- Refer plan labels for plant species

**Revegetation Zone**
- Groundcovers at 4 / m2
- Scattered spot tree plantings
- Scattered shrubs planting in groups
- Refer plan labels for plant species

Turfed area - Refer detail 05, drawing D05

Rock lined area - Refer engineers drawings

**Built Elements**

Proposed shared concrete path - 2.5m wide typically - Refer detail 01, drawing D01
Note grade 1:25 fall maximum

Proposed concrete path - 1.5m wide typically - Refer detail 01, drawing D01

PC — Post & cable fencing - refer detail 03, drawing D01

CE — Concrete edge - refer detail 02, drawing D01

Rip rap retaining wall
Refer detail 04, drawing D01

Picnic shelter - Refer detail 04, drawing D02 & detail 01, drawing D03

Picnic tables - Refer detail 02, drawing D02

BS — Backed seat on 1.0x2.0m approx. concrete pad - Refer detail 01, drawing D02

BO — Fixed steel bollards - Refer detail 03, drawing D02

RBO — Removable steel bollards - Refer detail 03, drawing D02

Proposed lighting locations - Refer Engineers drawings EL00 to EL05

EOW — Extent of works

# GENERAL NOTES

**GENERAL**
1. Existing survey boxes and marks disturbed during construction shall be replaced to new positions as directed by Superintendent.

2. Do not use vibratory equipment, except for hand held machines, over the subsurface services. It is the Contractor's responsibility to ensure there is no damage to existing services during the works. Replace all materials/ surface damaged to private/ public property. Ensure dated photographs are taken to kerbs and gutters to clearly indicate the existing conditions or any other structures before commencement of construction - supply one set of photographs to The Principal and retain one set on site.

3. The Contractor is to provide temporary silt barriers such as gravel bags/roll, around all stormwater inlet pits to minimise silt and contaminants entering the stormwater lines. During construction the silt traps are to be regularly maintained and any accumulated silt and debris is to be removed from such devices to maintain at least 60% of their capacities.

4. All existing service access pits, inspection pits and valve covers conflicting with finished surface levels are to be raised or lowered. The Contractor is to ensure that these adjustments are undertaken in accordance with engineer's details. Confirm treatment of unknown owner covers with Superintendent prior to undertaking adjustment.

5. Drawings to be read in conjunction with Survey drawings

**SET OUT**
1. All dimensions are in milimetres
2. Running measurements may be provided along main setout lines
3. Do not scale off drawings where setout points and dimensions are provided.
4. Setout alignment and levels of all paths, walls and edges for approval by Superintendent prior to commencement of works. If any discrepancy is found or doubt exists between setout and levels as indicated on dwgs and site conditions this shall be referred to the superintendent with adequate notice for provision of advice prior to the continuation of works.
5. Benchmarks will be clearly marked on site by the Contractor. Benchmark shall be maintained by the Contractor during the course of the project
6. All setting out shall be established by the contractor who will be responsible for the accuracy of lines and levels of finished work. If any discrepancy is found or doubt exists between setout and levels as indicated on dwgs and site conditions this shall be referred to the superintendent with adequate notice for provision of advice prior to the continuation of works.
7. Setout of all new tree plantings is to be verified on site by the Superintendent prior to planting.
8. Any setout not approved by the Superintendent may be subject to relocation at the contractors cost.
9. Setout locations of furniture items are to be verified on site by Superintendent prior to the excavation of footings and installation

**LEVELS**
1. Setout all levels for construction and approval on site with marker stakes to which levels are notated and clearly marked
2. Adjust all levels as instructed prior to final construction works
3. All falls are to be established as uniform grades between spot heights and contours
4. Paving to be profiled to provide minimum 1:80 fall (unless otherwise noted on plans) for stormwater over land flow.

**EROSION AND SEDIMENT CONTROL**
1. All work shall be generally carried out in accordance with
   (a) Council specifications and requirements,
   (b) EPA – Pollution control manual for urban stormwater,
2. The contractor shall provide an Erosion and Sediment Control Plan for the works prior to commencement on-site for approval by the superintendent.
3. Maintain all erosion and sediment control devices to the satisfaction of the Superintendent and Council.
4. When stormwater pits are constructed prevent site runoff entering the pits unless silt fences are erected around pits.
5. Minimise the area of site being disturbed at any one time.
6. Protect all stockpiles of materials from scour and erosion. Do not stockpile loose material in roadways, near drainage pits or in watercourses.
7. All soil and water control measures are to be put back in place at the end of each working day, and modified to best suit site conditions.
8. Control water from upstream of the site such that it does not enter the disturbed site.
9. All construction vehicles shall enter and exit the site via the designated construction entry / exit.
10. All vehicles entering the site shall be cleaned and inspected before leaving.
11. Maintain all stormwater pipes and pits clear of debris and sediment. Inspect stormwater system and clean out after each storm event.
12. Clean out all erosion and sediment control devices after each storm event.

SEQUENCE OF WORKS
1. Prior to commencement of excavation the following soil management devices must be installed.
1.1 Construct silt fences below the site and across all potential runoff sites.
1.2 Construct temporary construction entry / exit and divert runoff to suitable control systems.
1.3 Construct measures to divert upstream flows into existing stormwater system.
1.4 Construct sedimentation traps / basins including outlet control and overflow.
1.5 Construct turf lined swales.
1.6 Provide sandbag sediment traps upstream of existing pits.
2. Construct geotextile filter pit surround around all proposed pits as they are constructed.
3. On completion of pavement provide sand bag kerb inlet sediment traps around pits.

**DEMOLITION**
1. Extent of excavations if shown on drawings is indicative only - refer levels, and drainage plans for detailed information.

2. Existing items noted for stockpile and removed without breakage shall be stockpiled and transported to the Delfin storage by the Contractor. Damaged items shall be removed from site and disposed of by the Contractor.

3. Existing trees to be removed shall be marked on site following approval of setout by superintendent. No trees other than those marked and approved shall be removed or damaged.

4. Trees not indicated on the survey or demolition plans shall be retained - seek advise and approval from superintendent prior to removal of any tree not shown on plans.

5. Provide protective fencing to all trees to be retained adjoining the works area of the canopy line of these trees. To trees as marked provide timber batten buffer to 1.8m height from base of tree - wire fix on outside for duration of works

| Coordinate Marker ID | X Position | Y Position |
|---|---|---|
| EW01 | 289480704 | 6265549471 |
| EW02 | 289504992 | 6265551352 |
| EW03 | 289485910 | 6265535107 |
| EW04 | 289500055 | 6265546042 |
| EW05 | 289513794 | 6265541549 |
| EW06 | 289527630 | 6265544860 |
| EW07 | 289537556 | 6265547883 |
| EW08 | 289547625 | 6265546673 |
| EW09 | 289528925 | 6265559400 |
| EW10 | 289582860 | 6265568594 |
| EW11 | 289460558 | 6265571897 |
| EW12 | 289445704 | 6265563893 |
| EW13 | 289418351 | 6265557015 |
| EW14 | 289395991 | 6265548125 |
| EW15 | 289375692 | 6265543220 |
| EW16 | 289621250 | 6265565125 |
| EW17 | 289629537 | 6265554115 |
| EW18 | 289658300 | 6265565668 |
| EW19 | 289658403 | 6265555728 |
| EW20 | 289684140 | 6265569860 |
| EW21 | 289707850 | 6265570650 |
| EW22 | 289719150 | 6265569900 |
| EW23 | 289712476 | 6265575111 |
| EW23 | 289718282 | 6265576337 |
| EW24 | 289716468 | 6265574857 |
| EW24 | 289711150 | 6265576303 |
| EW25 | 289745200 | 6265565450 |
| EW26 | 289754036 | 6265551664 |
| EW27 | 289781000 | 6265555248 |
| EW28 | 289811900 | 6265550700 |
| EW29 | 289834755 | 6265550180 |
| EW30 | 289841788 | 6265555893 |
| EW31 | 289847384 | 6265578556 |
| EW32 | 289846507 | 6265564726 |
| EW33 | 289847863 | 6265553449 |
| EW34 | 289856209 | 6265547975 |
| EW35 | 289870290 | 6265542251 |
| EW36 | 289881493 | 6265541288 |
| EW37 | 289860150 | 6265539900 |
| EW38 | 289852510 | 6265541200 |
| EW39 | 289905322 | 6265530194 |
| EW40 | 289927700 | 6265521300 |
| EW41 | 289960851 | 6265513687 |
| EW42 | 290001560 | 6265512840 |
| EW43 | 290029400 | 6265517300 |
| EW44 | 290055828 | 6265521431 |
| EW45 | 290093139 | 6265524499 |
| EW46 | 290130775 | 6265528525 |
| EW47 | 290152754 | 6265533843 |
| EW48 | 290142099 | 6265528406 |
| EW49 | 290151649 | 6265527104 |
| EW50 | 290157651 | 6265522316 |
| EW51 | 290159800 | 6265526600 |
| EW52 | 290161982 | 6265534134 |
| EW53 | 290190775 | 6265548837 |
| EW54 | 290220040 | 6265565160 |
| EW55 | 290247300 | 6265575700 |
| EW56 | 290261650 | 6265582392 |
| EW57 | 290278439 | 6265593261 |
| EW58 | 290281716 | 6265596803 |
| EW59 | 290185300 | 6265613700 |
| EW60 | 290168850 | 6265611931 |
| EW61 | 290150000 | 6265605950 |
| EW62 | 290136000 | 6265601450 |
| EW63 | 290109486 | 6265597370 |
| EW64 | 290067145 | 6265601840 |
| EW65 | 289941868 | 6265610313 |
| EW66 | 289927946 | 6265610541 |
| EW67 | 289914278 | 6265607879 |
| EW68 | 289898400 | 6265606030 |
| EW69 | 289894800 | 6265611800 |
| EW70 | 289888600 | 6265613100 |
| EW71 | 289886760 | 6265606580 |
| EW72 | 289889523 | 6265611016 |
| EW73 | 289893515 | 6265610762 |
| EW74 | 289874625 | 6265608925 |
| EW75 | 289858180 | 6265615200 |
| EW76 | 289845140 | 6265623260 |
| EW77 | 289837338 | 6265626008 |
| EW78 | 289847733 | 6265618063 |
| EW79 | 289852430 | 6265609650 |
| EW80 | 289852185 | 6265598070 |
| EW81 | 289855613 | 6265601422 |
| EW82 | 289860415 | 6265607471 |
| EW83 | 289868435 | 6265608165 |
| EW84 | 289850523 | 6265591255 |
| EW85 | 289943887 | 6265580746 |
| EW86 | 289947776 | 6265575610 |
| EW87 | 289967405 | 6265571628 |
| EW88 | 289972898 | 6265572813 |
| EW89 | 290084716 | 6265576793 |
| EW90 | 290089632 | 6265573555 |
| EW91 | 290098153 | 6265575191 |
| EW92 | 290101889 | 6265580426 |
| NS01 | 289571031 | 6265969037 |
| NS02 | 289545588 | 6266007368 |
| NS03 | 289535875 | 6266024156 |
| NS04 | 289529503 | 6266052259 |
| NS05 | 289528697 | 6266117925 |
| NS06 | 289527056 | 6266138798 |
| NS07 | 289522900 | 6266156375 |
| NS08 | 289514300 | 6266185650 |
| NS09 | 289510011 | 6266210106 |
| NS10 | 289510342 | 6266238003 |
| | | |

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PREPARED FOR: Lend Lease

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PROJECT: **East to West and North to South Open Channel Jordan Springs Openspace Development**

DRAWING TITLE: **Legend and Notes**

JORDAN SPRINGS

DATE: **JUNE 2014**
SCALE: 1:2000 (@A1)
ISSUE: **D**
DRAWING NO: **3306.GE03**

**Generally**

Existing trees to be protected

Existing trees to be removed
Note: Harvest felled tree trunks and locate to revegetation areas as directed by the Superintendent

Spot tree plantings

**Setout and Levels**

33.0 — Proposed 0.5m design contours
Refer Engineers drawings

2000 — Dimensions in millimetres - setout on site and request approval by Superintendent prior proceeding with works

M124+ — Setout coordinates - refer setout schedule GE.03

FL 35.50 — Finished levels

fall 1:80 — Nominal 1:80 fall to pavement
Note where no fall indicated all pathways to have nominal 1:80 crossfall

**Note:**
- Existing contours will be supeceded by road (kerbline) design levels along edge of corridor.
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**Channel Base Zone**
- Planted and stabilised channel base ("MaxBio" erosion control matting)

**Embankment Zone**
- Groundcovers at 6 / m2
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**Revegetation Zone**
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Turfed area - Refer detail 05, drawing D05

Rock lined area - Refer engineers drawings

**Built Elements**

Proposed shared concrete path - 2.5m wide typically - Refer detail 01, drawing D01
Note grade 1:25 fall maximum

Proposed concrete path - 1.5m wide typically - Refer detail 01, drawing D01

PC — Post & cable fencing - refer detail 03, drawing D01

CE — Concrete edge - refer detail 02, drawing D01

Rip rap retaining wall
Refer detail 04, drawing D01

Picnic shelter - Refer detail 04, drawing D02 & detail 01, drawing D03

Picnic tables - Refer detail 02, drawing D02

BS — Backed seat on 1.0x2.0m approx. concrete pad - Refer detail 01, drawing D02

BO — Fixed steel bollards
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Proposed lighting locations
- Refer Engineers drawings EL00 to EL05

EOW — Extent of works

Diverted drain in separate submission

VILLAGE 12 PROPOSED BATTER LINE

ADJOINS NS02

Revegetation area 03 D05

Revegetation area 03 D05

Channel embankment 07 D05

Post and cable barrier 03 D01

Concrete path pavement 01 D01

Channel base 06 D05

VC2 OPEN CHANNEL EXTENSION IN SEPARATE PACKAGE

Provide maintenance access with 2 x fixed and 1 x removable bollards at path entry

Post and cable barrier 03 D01

Concrete path pavement 01 D01

Turfed area 05 D05

Backed seat 01 D02

Concrete edge 02 D01

Revegetation area 03 D05

Channel base 06 D05

Turfed area 05 D05

ADJOINS EW02

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PROJECT:
**East to West and North to South Open Channel**
**Jordan Springs Openspace Development**

JORDAN SPRINGS

DRAWING TITLE:
**East to West Open Channel**
**Construction Works Plan - Area 1**

0 10 20 30 M

DATE: JUNE 2014
SCALE: 1:500 (@A1)
ISSUE: D
DRAWING NO: 3306.EW01


**Generally**

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- Existing trees to be removed
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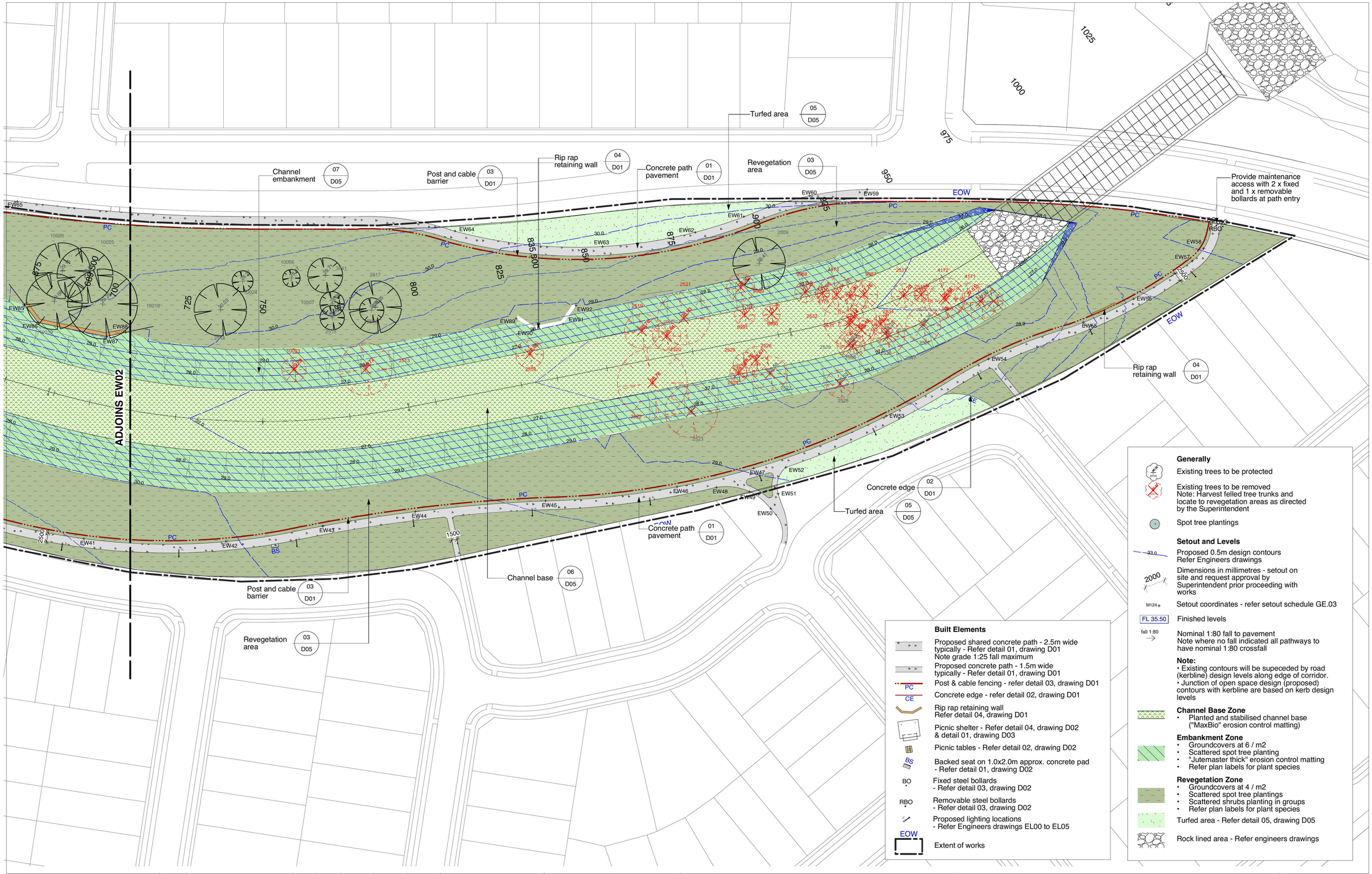
PROJECT:
**East to West and North to South Open Channel Jordan Springs Openspace Development**

JORDAN SPRINGS

DRAWING TITLE:
**East to West Open Channel Construction Works Plan - Area 2**

0 10 20 30 M

DATE: **JUNE 2014**
SCALE: 1:500 (@A1)
ISSUE: **D**
DRAWING NO: **3306.EW02**




**Built Elements**

- Proposed shared concrete path - 2.5m wide typically - Refer detail 01, drawing D01 Note grade 1:25 fall maximum
- Proposed concrete path - 1.5m wide typically - Refer detail 01, drawing D01
- PC — Post & cable fencing - refer detail 03, drawing D01
- CE — Concrete edge - refer detail 02, drawing D01
- Rip rap retaining wall Refer detail 04, drawing D01
- Picnic shelter - Refer detail 04, drawing D02 & detail 01, drawing D03
- Picnic tables - Refer detail 02, drawing D02
- BS — Backed seat on 1.0x2.0m approx. concrete pad - Refer detail 01, drawing D02
- BO — Fixed steel bollards - Refer detail 03, drawing D02
- RBO — Removable steel bollards - Refer detail 03, drawing D02
- Proposed lighting locations - Refer Engineers drawings EL00 to EL05
- EOW — Extent of works

**Generally**

- Existing trees to be protected
- Existing trees to be removed Note: Harvest felled tree trunks and locate to revegetation areas as directed by the Superintendent
- Spot tree plantings

**Setout and Levels**

- 33.0 — Proposed 0.5m design contours Refer Engineers drawings
- 2000 — Dimensions in millimetres - setout on site and request approval by Superintendent prior proceeding with works
- M124 + — Setout coordinates - refer setout schedule GE.03
- FL 35.50 — Finished levels
- fall 1:80 — Nominal 1:80 fall to pavement Note where no fall indicated all pathways to have nominal 1:80 crossfall

**Note:**
- Existing contours will be supeceded by road (kerbline) design levels along edge of corridor.
- Junction of open space design (proposed) contours with kerbline are based on kerb design levels

**Channel Base Zone**
- Planted and stabilised channel base ("MaxBio" erosion control matting)

**Embankment Zone**
- Groundcovers at 6 / m2
- Scattered spot tree planting
- "Jutemaster thick" erosion control matting
- Refer plan labels for plant species

**Revegetation Zone**
- Groundcovers at 4 / m2
- Scattered spot tree plantings
- Scattered shrubs planting in groups
- Refer plan labels for plant species

Turfed area - Refer detail 05, drawing D05

Rock lined area - Refer engineers drawings

GENERAL NOTES:
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PREPARED FOR: Lend Lease

LANDSCAPE ARCHITECTS AND URBAN DESIGNERS:
Environmental Partnership
Suite 3:01 22-36 Mountain St Ultimo NSW 2007
Ph: (02) 9281 7007 Fax: (02) 9281 7222
Email: admin@epnsw.com.au
ABN 53 088 175 437

PROJECT:
**East to West and North to South Open Channel Jordan Springs Openspace Development**

DRAWING TITLE:
**East to West Open Channel Construction Works Plan - Area 3**

JORDAN SPRINGS

0 10 20 30 M

DATE: **JUNE 2014**

SCALE: 1:500 (@A1)

ISSUE: **D**

DRAWING NO: **3306.EW02**

## Plant Schedule (East to West Open Channel - Areas 1,2&3)

| ID | Qty | Common Name | Botanical Name | Size | Mature Height | Mature Spread | Spacing |
|---|---|---|---|---|---|---|---|
| **Trees** | | | | | | | |
| TAS | 37 | Broad Leaved Apple | Angophora subvelutina | 5L | 15 - 20m | 6 - 10m | as shown |
| TEA | 40 | Cabbage Gum | Eucalyptus amplifolia | 5L | 25 - 30m | 3.5 - 6m | as shown |
| TEB | 31 | Blue Box | Eucalyptus bauerana | 5L | 25 - 30m | 3.5 - 6m | as shown |
| TWF | 75 | Weeping Lilly Pilly | Waterhousia floribunda | 5L | 5 - 6m | 3.5 - 6m | as shown |
| **Shrubs** | | | | | | | |
| BS | 125 | Blackthorn | Bursaria spinosa | 150mm | 5 - 10m | 0.3 - 0.6m | 1500mm |
| CC | 158 | Scarlet Bottlebrush | Callistemon citrinus | 150mm | 3 - 5m | 2.0 - 3.5m | 1500mm |
| DO | 133 | Common Hop Bush | Dodonaea triquetra | 150mm | 1.5 - 3m | 1.2 - 2.0m | 1500mm |
| GJ | 195 | Prickly Grevillea | Grevillea juniperina | 150mm | 0.6 - 0.75m | 2.0 - 3.5m | 1500mm |
| LP | 232 | Lemon-Scented Tea Tree | Leptospermum polygalifolium | 150mm | 1.5 - 3m | 3.5 - 6m | 1500mm |
| **Native Grasses & Ground Covers** | | | | | | | |
| TJ | 462 | Star Jasmine | Trachelospermum jasminoides | 150mm | 3 - 5m | 3.5 - 6m | 4 per m2 |
| JU | 13929 | Common Rush | Juncus usitatus | viro tube | 0.9 - 1.5m | 0.6 - 0.9m | 6 per m2 |
| CX | 20525 | Tall Sedge | Carex appressa | viro tube | 0.9 - 1.5m | 0.3 - 0.6m | 4 /6 per m2 |
| CE | 9286 | Tall flat segde | Cyperus exalatus | viro tube | 0.45 - 0.6m | 0.3 - 0.6m | 6 per m2 |
| LL | 54287 | Spiny-headed Mat-Rush | Lomandra longifolia | viro tube | 0.75 - 0.9m | 0.9 - 1.2m | 4 per m2 |
| GS | 4642 | Ghania | Ghania sieberiana | viro tube | 0.75 - 0.9m | 0.3 - 0.6m | 6 per m2 |
| TA | 45001 | Kangaroo Grass | Themeda australis | viro tube | 0.9 - 1.5m | 0.3 - 0.6m | 4 per m2 |
| CR | 22491 | Barbed Wire Grass | Cymbopogon refractus | viro tube | 0.6 - 0.75m | 0.3 - 0.6m | 4 per m2 |
| DA | 22491 | Long leaved Wallaby Grass | Danthonia longifolia | viro tube | 0.9 - 1.5m | 0.3 - 0.6m | 4 per m2 |
| EE | 22491 | Lavender Grass | Eragrostis elongata | viro tube | 0.3 - 0.45m | 0.0 - 0.3m | 4 per m2 |
| PL | 22491 | Tussock Grass | Poa labillardieri | viro tube | 0.75 - 0.9m | 0.6 - 0.9m | 4 per m2 |
| CS | 22491 | Scented-top Grass | Capillipedium spicigerum | viro tube | 0.9 - 1.5m | 0.3 - 0.6m | 4 per m2 |
| MI | 11239 | Weeping Grass | Microlaena stipoides | viro tube | 0.6 - 0.75m | 0.6 - 0.9m | 4 per m2 |

**Revegetation Area**
1329 TA
1329 LL
664 CR
664 DA
664 EE
664 PL
664 CS
332 MI
332 CX

**Channel Embankment Plantings**
1038 TA
1038 LL
519 CR
519 DA
519 EE
519 PL
519 CS
259 MI
259 CX

**Revegetation Area**
2085 TA
2085 LL
1042 CR
1042 DA
1042 EE
1042 PL
1042 CS
521 MI
521 CX

**Channel Base Plantings**
897 JU
598 CX
598 CE
598 LL
299 GS

**Channel Embankment Plantings**
3171 TA
3171 LL
1585 CR
1585 DA
1585 EE
1585 PL
1585 CS
792 MI
792 CX

**Revegetation Area**
159 TA
159 LL
79 CR
79 DA
79 EE
79 PL
79 CS
39 MI
39 CX

**Revegetation Area**
437 TA
437 LL
218 CR
218 DA
218 EE
218 PL
218 CS
109 MI
109 CX

**Channel Base Plantings**
438 JU
292 CX
292 CE
292 LL
146 GS

**Revegetation Area**
323 TA
323 LL
161 CR
161 DA
161 EE
161 PL
161 CS
80 MI
80 CX

**Channel Embankment Plantings**
504 TA
504 LL
252 CR
252 DA
252 EE
252 PL
252 CS
126 MI
126 CX

**Revegetation Area**
61 TA
61 LL
30 CR
30 DA
30 EE
30 PL
30 CS
15 MI
15 CX

**Revegetation Area**
325 TA
325 LL
162 CR
162 DA
162 EE
162 PL
162 CS
81 MI
81 CX

**Channel Embankment Plantings**
2887 TA
2887 LL
1443 CR
1443 DA
1443 EE
1443 PL
1443 CS
721 MI
721 CX

**Revegetation Area**
1690 TA
1690 LL
845 CR
845 DA
845 EE
845 PL
845 CS
422 MI
422 CX

**Revegetation Area**
161 TA
161 LL
80 CR
80 DA
80 EE
80 PL
80 CS
40 MI
40 CX

VC2 OPEN CHANNEL EXTENSION IN SEPARATE PACKAGE

ADJOINS NS04

ADJOINS EW05

VILLAGE 12 PROPOSED BATTER LINE

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PROJECT:
**East to West and North to South Open Channel Jordan Springs Openspace Development**

DRAWING TITLE:
**East to West Open Channel Planting Plan - Area 1**

JORDAN SPRINGS

0 10 20 30 M

DATE: JUNE 2014
SCALE: 1:500 (@A1)
ISSUE: D
DRAWING NO: 3306.EW04


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PROJECT:

**East to West and North to South Open Channel Jordan Springs Openspace Development**

JORDAN SPRINGS

DRAWING TITLE:

**East to West Open Channel Planting Plan - Area 2**

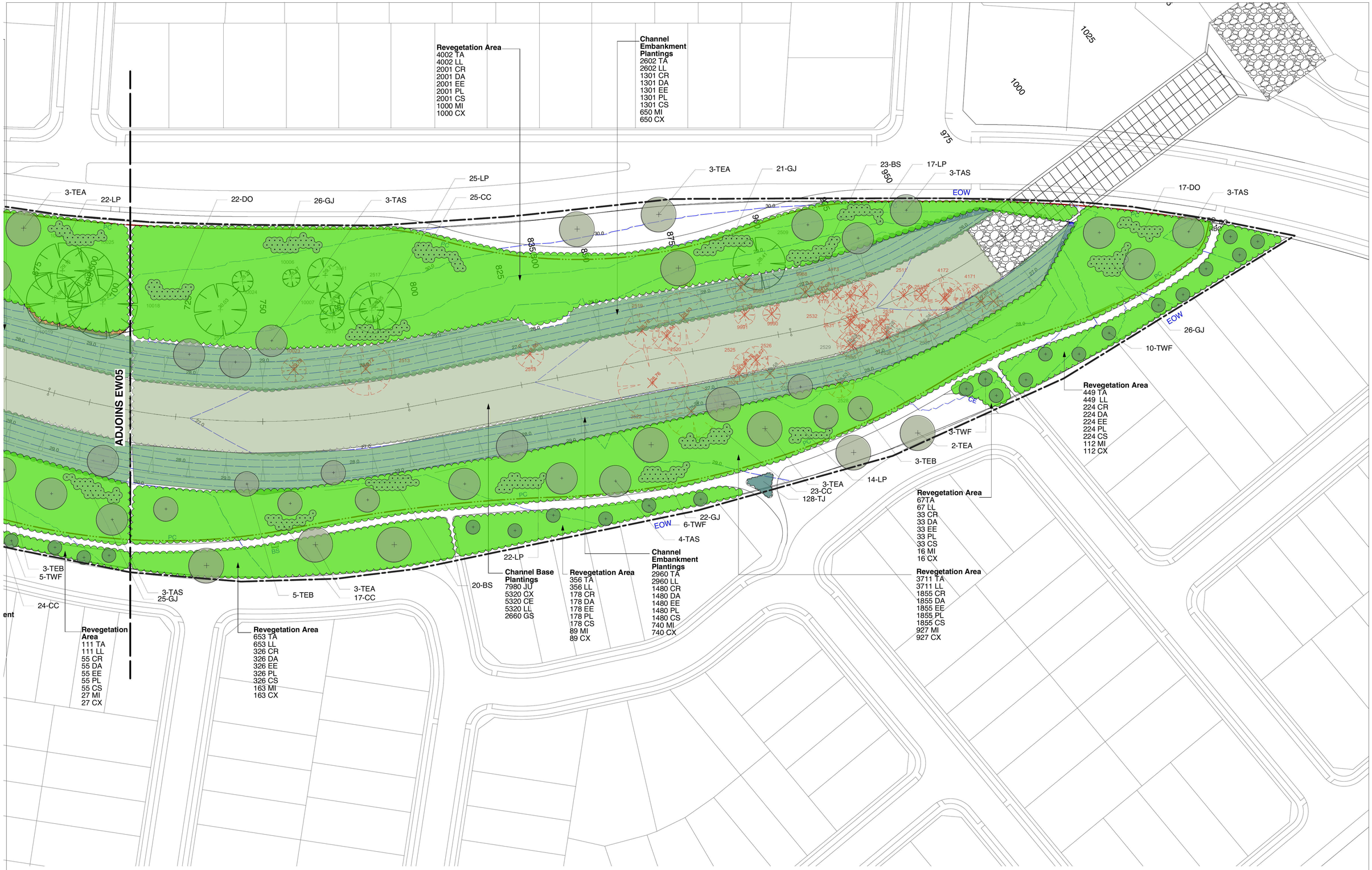
0 10 20 30 M

DATE: **JUNE 2014**

SCALE: 1:500 (@A1)

ISSUE: **D**

DRAWING NO: **3306.EW05**

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PROJECT:

**East to West and North to South Open Channel**
**Jordan Springs Openspace Development**

JORDAN SPRINGS

DRAWING TITLE:

**East to West Open Channel**
**Planting Plan - Area 3**

0 10 20 30 M

DATE: **JUNE 2014**

SCALE: 1:500 (@A1)

ISSUE: **D**

DRAWING NO: **3306.EW06**

**Generally**

Existing trees to be protected

Existing trees to be removed
Note: Harvest felled tree trunks and locate to revegetation areas as directed by the Superintendent

Spot tree plantings

**Setout and Levels**

33.0 — Proposed 0.5m design contours
Refer Engineers drawings

2000 — Dimensions in millimetres - setout on site and request approval by Superintendent prior proceeding with works

M124+ — Setout coordinates - refer setout schedule GE.03

FL 35.50 — Finished levels

fall 1:80 — Nominal 1:80 fall to pavement
Note where no fall indicated all pathways to have nominal 1:80 crossfall

**Note:**
- Existing contours will be supeceded by road (kerbline) design levels along edge of corridor.
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**Channel Base Zone**
- Planted and stabilised channel base ("MaxBio" erosion control matting)

**Embankment Zone**
- Groundcovers at 6 / m2
- Scattered spot tree planting
- "Jutemaster thick" erosion control matting
- Refer plan labels for plant species

**Revegetation Zone**
- Groundcovers at 4 / m2
- Scattered spot tree plantings
- Scattered shrubs planting in groups
- Refer plan labels for plant species

Turfed area - Refer detail 05, drawing D05

Rock lined area - Refer engineers drawings

**Built Elements**

Proposed shared concrete path - 2.5m wide typically - Refer detail 01, drawing D01
Note grade 1:25 fall maximum

Proposed concrete path - 1.5m wide typically - Refer detail 01, drawing D01

PC — Post & cable fencing - refer detail 03, drawing D01

CE — Concrete edge - refer detail 02, drawing D01

Rip rap retaining wall
Refer detail 04, drawing D01

Picnic shelter - Refer detail 04, drawing D02 & detail 01, drawing D03

Picnic tables - Refer detail 02, drawing D02

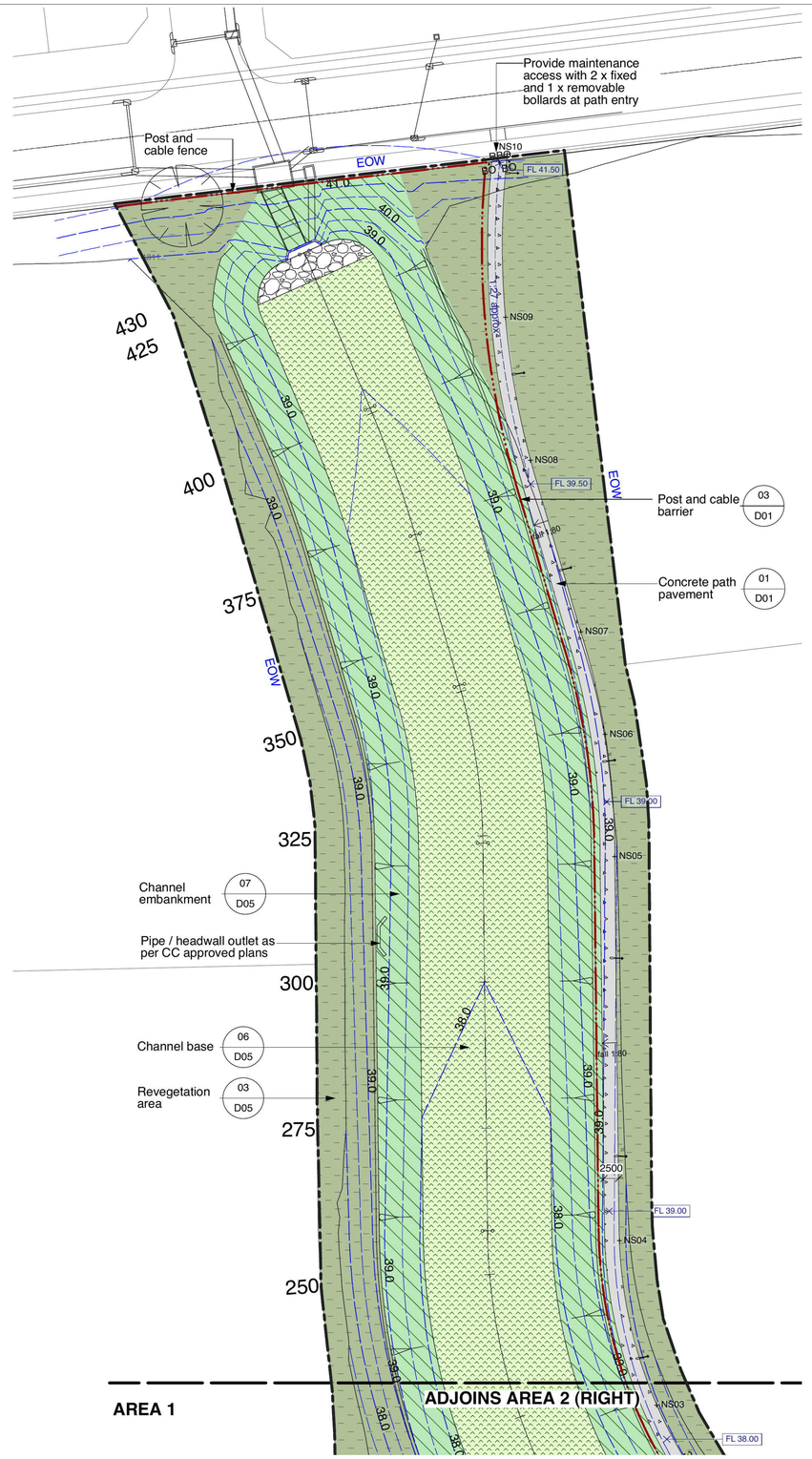
BS — Backed seat on 1.0x2.0m approx. concrete pad - Refer detail 01, drawing D02

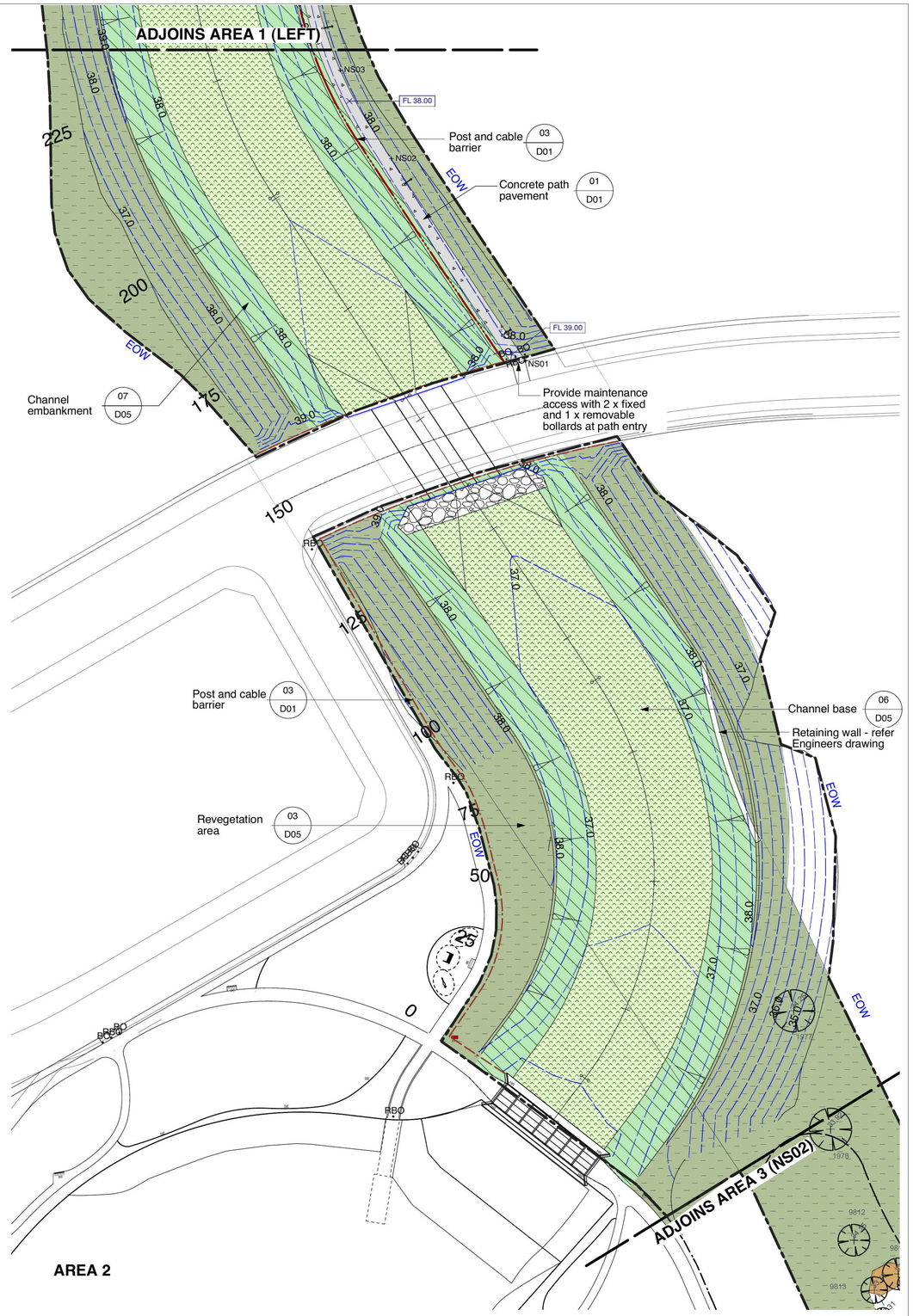
BO — Fixed steel bollards - Refer detail 03, drawing D02

RBO — Removable steel bollards - Refer detail 03, drawing D02

Proposed lighting locations - Refer Engineers drawings EL00 to EL05

EOW — Extent of works

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PROJECT:
**East to West and North to South Open Channel Jordan Springs Openspace Development**

DRAWING TITLE:
**North to South Open Channel Construction Works Plan - Area 1 & 2**

JORDAN SPRINGS

0 10 20 30 M

DATE: JUNE 2014
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DRAWING NO: 3306.NS01

**Generally**

Existing trees to be protected

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Note: Harvest felled tree trunks and locate to revegetation areas as directed by the Superintendent

Spot tree plantings

**Setout and Levels**

33.0 — Proposed 0.5m design contours
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FL 35.50 — Finished levels

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Turfed area - Refer detail 05, drawing D05

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**Built Elements**

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Note grade 1:25 fall maximum

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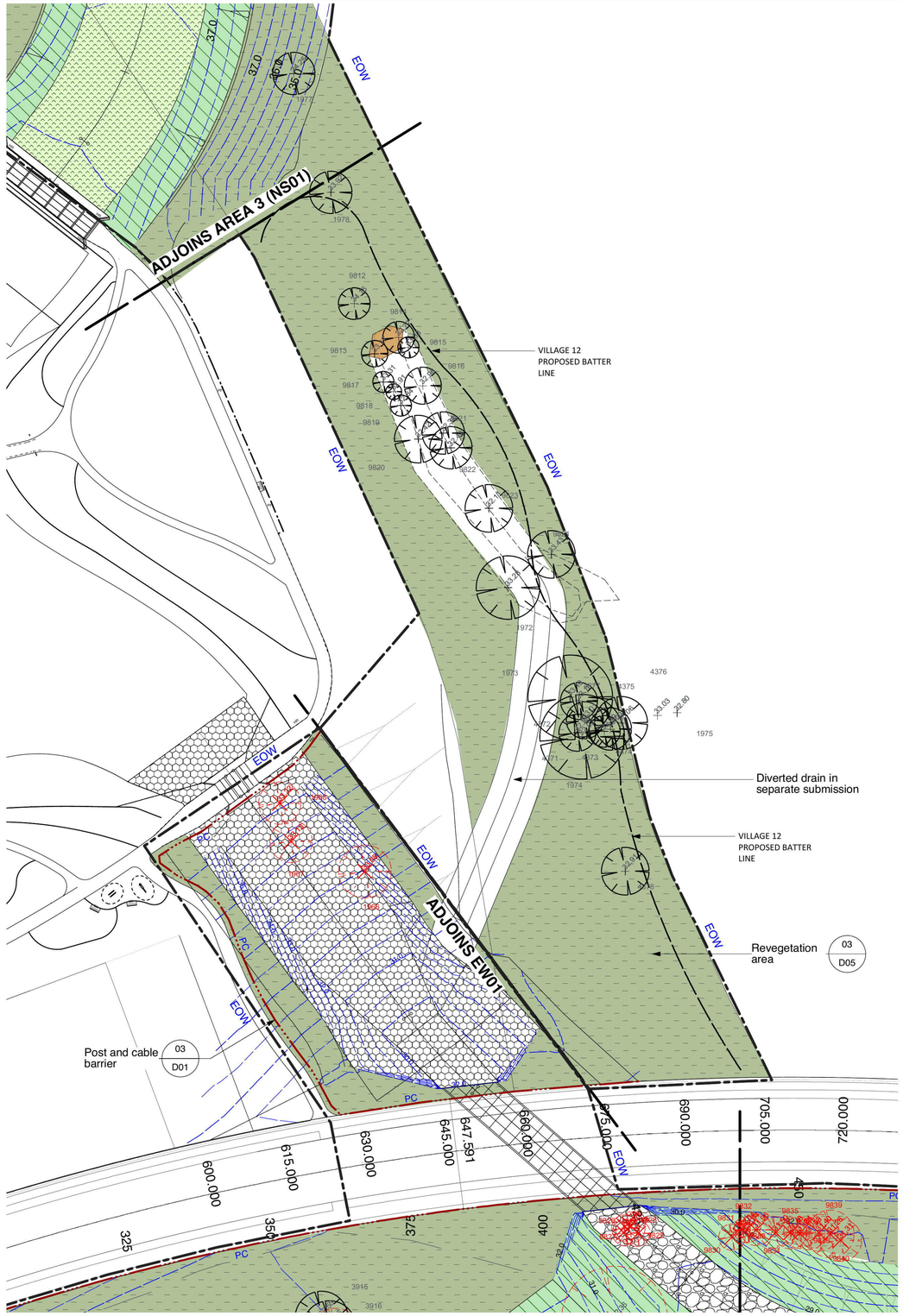
Proposed lighting locations - Refer Engineers drawings EL00 to EL05

EOW — Extent of works

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PROJECT:
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JORDAN SPRINGS

DRAWING TITLE:
**North to South Open Channel Construction Works Plan - Area 3**

0 10 20 30 M

DATE: **JUNE 2014**
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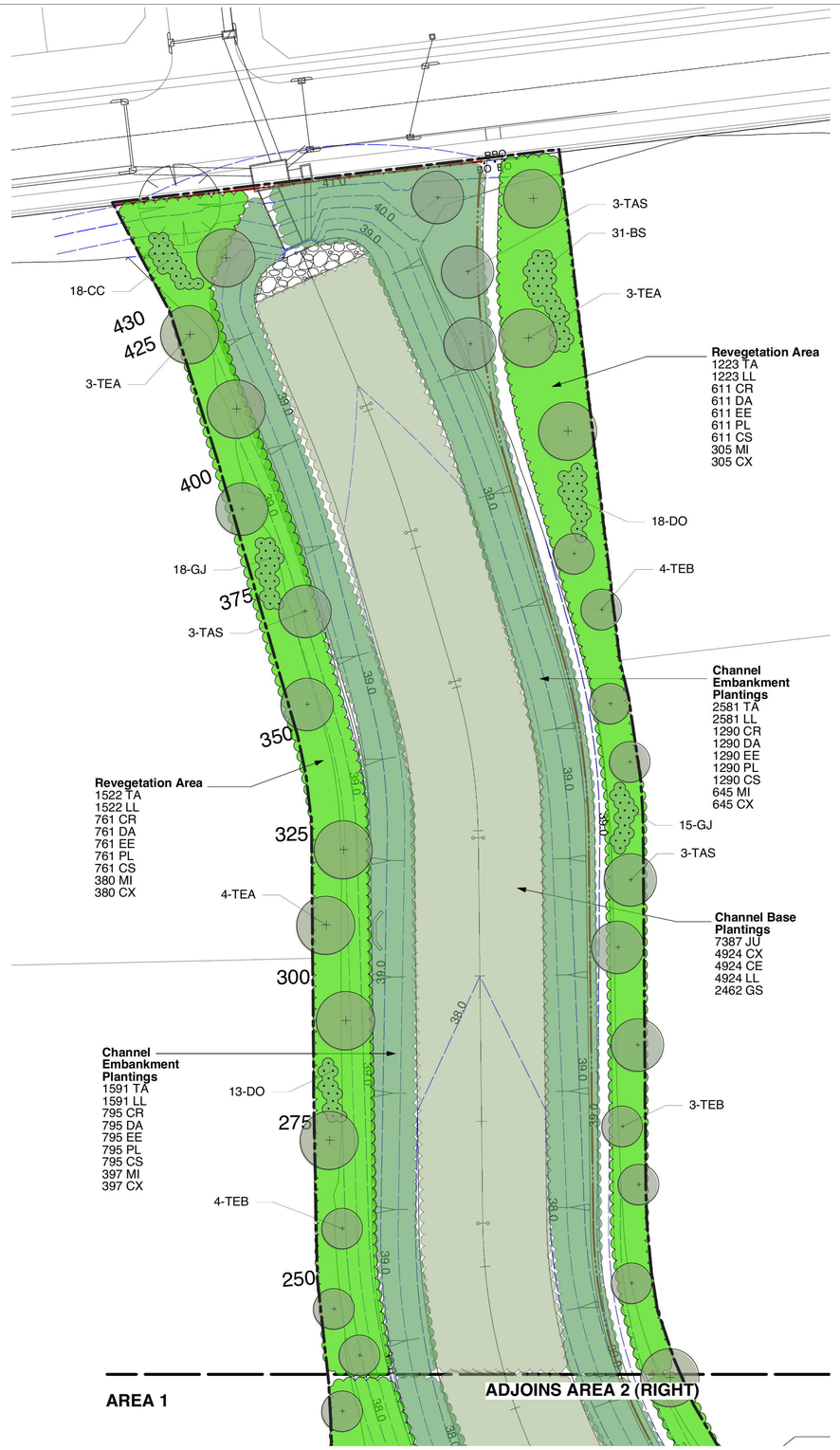


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PROJECT:

**East to West and North to South Open Channel Jordan Springs Openspace Development**

DRAWING TITLE:

**North to South Open Channel Planting Plan - Area 1 & 2**

JORDAN SPRINGS

0 10 20 30 M

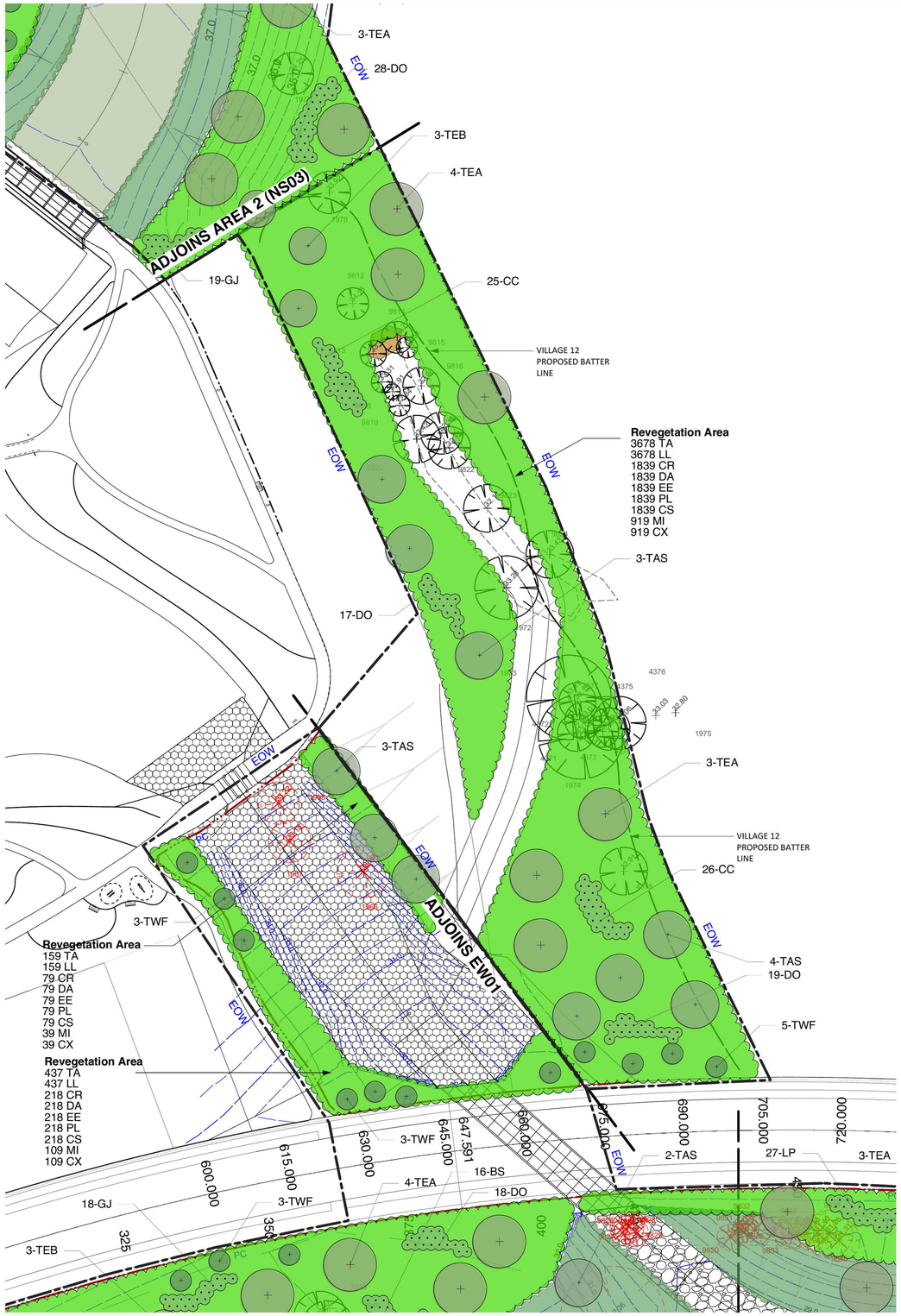
DATE: **JUNE 2014**

SCALE: 1:500 (@A1)

ISSUE: **D**

DRAWING NO: **3306.NS03**

| Plant Schedule (North to South Open Channel - Areas 1,2&3) | | | | | | | |
|---|---|---|---|---|---|---|---|
| **ID** | **Qty** | **Common Name** | **Botanical Name** | **Size** | **Mature Height** | **Mature Spread** | **Spacing** |
| **Trees** | | | | | | | |
| TAS | 24 | Broad Leaved Apple | Angophora subvelutina | 5L | 15 - 20m | 6 - 10m | as shown |
| TEA | 27 | Cabbage Gum | Eucalyptus amplifolia | 5L | 25 - 30m | 3.5 - 6m | as shown |
| TEB | 14 | Blue Box | Eucalyptus bauerana | 5L | 25 - 30m | 3.5 - 6m | as shown |
| TWF | 10 | Weeping Lilly Pilly | Waterhousia floribunda | 5L | 5 - 6m | 3.5 - 6m | as shown |
| **Shrubs** | | | | | | | |
| BS | 31 | Blackthorn | Bursaria spinosa | 150mm | 5 - 10m | 0.3 - 0.6m | 1500mm |
| CC | 113 | Scarlet Bottlebrush | Callistemon citrinus | 150mm | 3 - 5m | 2.0 - 3.5m | 1500mm |
| DO | 105 | Common Hop Bush | Dodonaea triquetra | 150mm | 1.5 - 3m | 1.2 - 2.0m | 1500mm |
| GJ | 52 | Prickly Grevillea | Grevillea juniperina | 150mm | 0.6 - 0.75m | 2.0 - 3.5m | 1500mm |
| **Native Grasses & Ground Covers** | | | | | | | |
| JU | 15060 | Common Rush | Juncus usitatus | viro tube | 0.9 - 1.5m | 0.6 - 0.9m | 6 per m2 |
| CX | 14478 | Tall Sedge | Carex appressa | viro tube | 0.9 - 1.5m | 0.3 - 0.6m | 4 /6 per m2 |
| CE | 10039 | Tall flat segde | Cyperus exalatus | viro tube | 0.45 - 0.6m | 0.3 - 0.6m | 6 per m2 |
| LL | 27821 | Spiny-headed Mat-Rush | Lomandra longifolia | viro tube | 0.75 - 0.9m | 0.9 - 1.2m | 4 per m2 |
| GS | 5019 | Ghania | Ghania sieberiana | viro tube | 0.75 - 0.9m | 0.3 - 0.6m | 6 per m2 |
| TA | 17782 | Kangaroo Grass | Themeda australis | viro tube | 0.9 - 1.5m | 0.3 - 0.6m | 4 per m2 |
| CR | 8887 | Barbed Wire Grass | Cymbopogon refractus | viro tube | 0.6 - 0.75m | 0.3 - 0.6m | 4 per m2 |
| DA | 8887 | Long leaved Wallaby Grass | Danthonia longifolia | viro tube | 0.9 - 1.5m | 0.3 - 0.6m | 4 per m2 |
| EE | 8887 | Lavender Grass | Eragrostis elongata | viro tube | 0.3 - 0.45m | 0.0 - 0.3m | 4 per m2 |
| PL | 8887 | Tussock Grass | Poa labillardieri | viro tube | 0.75 - 0.9m | 0.6 - 0.9m | 4 per m2 |
| CS | 8887 | Scented-top Grass | Capillipedium spicigerum | viro tube | 0.9 - 1.5m | 0.3 - 0.6m | 4 per m2 |
| MI | 4439 | Weeping Grass | Microlaena stipoides | viro tube | 0.6 - 0.75m | 0.6 - 0.9m | 4 per m2 |




GENERAL NOTES:
1. Do not scale of drawings. Follow written dimensions. If in doubt obtain written advice from the Superintendent.
2. Verify all dimensions on site.
3. Refer to legend for all symbol and code keys.
4. Read in conjunction with the specifications.
5. Read in conjunction with all associated drawings

| ISSUE | AMENDMENT | DRAWN | DATE |
|---|---|---|---|
| D | MINOR UPDATES FOR CC | BL | 19.06.14 |
| C | FOR CC | BL | 09.04.14 |
| B | LIGHTING LOCATIONS ADDED | BL | 05.03.14 |
| A | FOR REVIEW | BL | 18.02.14 |

| | | |
|---|---|---|
| DESIGNED: EP | DATE: FEB 14 | APPROVED: |
| DRAWN: BL | DATE: FEB 14 | APPROVED: |
| CHECKED: AH | DATE: FEB 14 | APPROVED: |

PREPARED FOR: Lend Lease

LANDSCAPE ARCHITECTS AND URBAN DESIGNERS:
Environmental Partnership
Suite 3.01 22-36 Mountain St Ultimo NSW 2007
Ph: (02) 9281 7007 Fax: (02) 9281 7222
Email: admin@epnsw.com.au
ABN 53 088 175 437

PROJECT:
**East to West and North to South Open Channel**
**Jordan Springs Openspace Development**

DRAWING TITLE:
**North to South Open Channel**
**Planting Plan - Area 3**

JORDAN SPRINGS

0 10 20 30 M

DATE: **JUNE 2014**
SCALE: 1:500 (@A1)
ISSUE: **D**
DRAWING NO: **3306.NS04**