

Council Reference: CC14/0507 GS4/96/0049 LN19746  
Your Reference:



**TWEED**  
SHIRE COUNCIL

11 February 2015

Customer Service | 1300 292 872 | (02) 6670 2400

Garbind Pty Ltd and Feitelson Holdings Pty Ltd  
C/- Burchills Engineering Solutions  
PO Box 3766  
Australia Fair  
SOUTHPORT QLD 4215

RECEIVED  
13 FEB 2015

tsc@tweed.nsw.gov.au  
www.tweed.nsw.gov.au

Fax (02) 6670 2429  
PO Box 816  
Murwillumbah NSW 2484

Please address all communications  
to the General Manager

ABN: 90 178 732 496

BY: .....

Dear Sir/Madam

**Construction Certificate No. CC14/0507 - Proposed 37 lot  
industrial subdivision at Lot 2 DP 569304; No. 60 Tringa Street  
TWEED HEADS WEST**

In accordance with the provision of Sections 81A(4) of the Environmental Planning and Assessment Act, 1979 (as amended), your application for a Construction Certificate has been approved.

A copy of the formal determination and Construction Certificate No. CC14/0507 is attached, together with copies of the approved plans and specifications.

Please note condition 21 of Development Consent S96/0049 relating to inspections and compliance certificates.

Your attention is invited to the attached Form - Notice of Commencement of Building or Subdivision Work and Appointment of Principal Certifying Authority which is required to be completed and submitted to Council prior to works commencing.

For further information regarding this matter please contact Brenden Schwarz on (02) 6670 2481.

Yours faithfully

Per A handwritten signature in black ink, appearing to read 'Ray Musgrave'.

**Ray Musgrave**  
Unit Co-ordinator Development Engineering

Enc

**CONSTRUCTION CERTIFICATE NO: CC14/0507**  
 Environmental Planning and Assessment Act, 1979

**NOTICE OF DETERMINATION OF CONSTRUCTION CERTIFICATE**

To: Garbind Pty Ltd and Feitelson Holdings Pty Ltd  
 C/- Burchills Engineering Solutions  
 PO Box 3766  
 Australia Fair  
 SOUTHPORT QLD 4215

Pursuant to Section 81A(4) of the Act, notice is hereby given of the determination by the Tweed Shire Council of Construction Certificate No. CC14/0507 relating to land described as:-

Lot 2 DP 569304; No. 60 Tringa Street TWEED HEADS WEST

to be developed in accordance with plans and details submitted for the purpose of:-

**37 LOT INDUSTRIAL SUBDIVISION**

**Development Consent No.** S96/0049

**Date of Determination** Wednesday 13 November 1996

**DETERMINATION**

The Construction Certificate Application and Plan Nos. have been determined and are approved.

Drawing No.	Drawing Title	Revision
GC130114-01-C000	Locality Plan and Schedule of Drawings	B
GC130114-01-C100	Overall layout and site plan	C
GC130114-01-C200	Bulk earthworks setout plan - Sheet 1	C
GC130114-01-C201	Bulk earthworks setout plan - Sheet 2	C
GC130114-01-C202	Bulk earthworks setout plan - Sheet 3	C
GC130114-01-C203	Site Sections - Sheet 1	C
GC130114-01-C204	Site Sections - Sheet 2	C
GC130114-01-C205	Typical earthworks details	B
GC130114-01-C210	Preload phase 1 plan and notes	C
GC130114-01-C211	Preload phase 2 plan and notes	C
GC130114-01-C212	Preload typical details sheet	B
GC130114-01-C220	Sediment and erosion control layout plan	C
GC130114-01-C221	Sediment and erosion control typical details	B
GC130114-01-C300	Temporary construction access layout plan	C
GC130114-01-C310	Proposed culvert crossing	B

**Date of Determination of Construction** 11 February 2015

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**Certificate**

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**Certificate**

I certify that the work if completed in accordance with these plans and specifications will comply with the requirements of the Environmental Planning and Assessment Regulations 2000 as referred to in s81A(5) of the Environmental Planning and Assessment Act, 1979.

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**Signed on behalf  
of Tweed Shire  
Council**

**Signature:**

*Per [Signature]*

Ray Musgrave  
Unit Co-ordinator Development  
Engineering

**Date of  
Endorsement:**

**Certificate No.**

11 February 2015

CC14/0507

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Prior to commencement of works Section 81A(4)(b) and (c) of the Environmental Planning and Assessment Act, 1979 must be satisfied (see form attached)

**NOTICE OF COMMENCEMENT OF BUILDING OR SUBDIVISION WORK**  
 under Environmental Planning and Assessment Act 1979  
 Sections 81A (2), (3), (4) and 86 (2)

To: General Manager  
 Tweed Shire Council  
 PO Box 816  
 MURWILLUMBAH NSW 2484

**1. SUBJECT LAND**

Lot/Section/DP

**2. DESCRIPTION OF DEVELOPMENT**

Type of Work  Building work  Subdivision Work

Description of Work

**3. CONSENT**

Development Consent No.

Complying Development Cert No.

Date of Determination

**4. CONSTRUCTION CERTIFICATE**

Construction Consent No.

Date of Issue

**5. Compliance with Development Consent / Complying Development Consent**

have all conditions required to be satisfied prior to the commencement of work been satisfied.  Yes  No (provide comment)

(conditions may include payment of security, S94 contributions, endorsement of building works plans by water supply authority)

**6. Home Building Act 1989 requirements**

PCA has been advised of the requirements of cl 98(1) (b) of the Regulation

<input type="checkbox"/> Yes (See Note 1)	<input type="checkbox"/> No (Provide comment)
<p><b>7. Date to Commence Work</b></p> <p>Commencement date <input style="width: 150px; height: 20px;" type="text"/></p> <p>Signed <input style="width: 400px; height: 25px;" type="text"/></p> <p>Applicant/Owner/Builder name <input style="width: 400px; height: 25px;" type="text"/></p> <p>Address <input style="width: 400px; height: 25px;" type="text"/></p> <p>Date <input style="width: 150px; height: 25px;" type="text"/></p>	

- Note 1** *Home Building Act 1989* requirements in case of building work that involves residential building work (within the meaning of the *Home Building Act 1989*) attach the following:
- (a) in the case of work by a license under that act:
    - (i) a statement detailing the licensee's name and contractor licence number, and
    - (ii) documentary evidence that the licensee has complied with the applicable requirements of that Act\*, or
  - (b) in the case of work done by any other person:
    - (i) a statement detailing the persons name and owner builder permit number, or
    - (ii) a declaration signed by the owner of the land, to the effect that the reasonable market cost of the labour and materials involved in the work is less than the amount prescribed for the purpose of the definition of **owner-builder work** in section 29 of the Act.

\* A certificate purporting to be issued by an approved insurer under Part 6 of the Home Building Act 1989 to the effect that a person is the holder of an insurance contract issued for the requirements of that Part.

**APPOINTMENT OF PRINCIPAL CERTIFYING AUTHORITY**  
under Environmental Planning and Assessment Act 1979  
Sections 81A (2), (3), (4) and 86 (2)

To: General Manager  
Tweed Shire Council  
PO Box 816  
MURWILLUMBAH NSW 2484

**1. SUBJECT LAND**

Address

Lot/Section/DP

**2. DESCRIPTION OF DEVELOPMENT**

Type of Work

 Building work Subdivision Work

Description of Work

**3. CONSENT**

Development Consent No.

Complying Development Cert No.

Date of Determination

**4. CONSTRUCTION CERTIFICATE**

Construction Consent No.

Date of Issue

**5. Principal Certifying Authority (PCA)** Tweed Shire Council Private Certifying Authority

**5(a). For Building Work**

Accredited Building Certifier  
(if not Council)

Accreditation No.

Address /  
Contact No.

**5(b). For Subdivision Work**

Subdivision Works Accredited Certifier

Accreditation No.

Address /  
Contact No.

**Note** A Subdivision Works Accredited Certifier must be nominated in accordance with Appendix C of DCP 16 irrespective of whom is acting as the Principle Certifying Authority.

**6. Owners Signature - THIS MUST BE SIGNED BY THE OWNER/S OF THE PROPERTY**

Owners Signature

Owners name

Address

Date

# PROPOSED INDUSTRIAL SUBDIVISION AT 60 TRINGA STREET, TWEED HEADS WEST

## BULK EARTHWORKS

CONTRACT GC130114-01

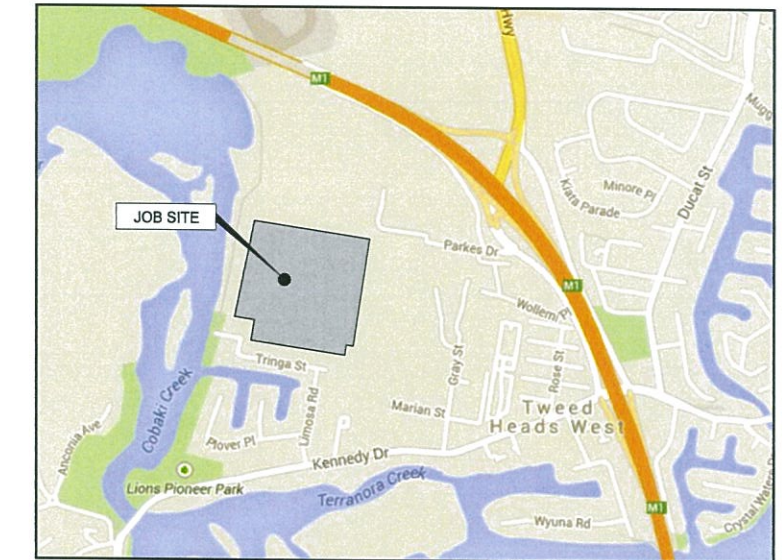
### PROJECT SIGN (TYPICAL)

<b>60 TRINGA STREET</b> <b>TWEED HEADS WEST</b> <small>for Feitelson Holdings P/L &amp; Garbind P/L</small>		<small>WHITE LETTERING ON BLACK BACKGROUND</small> 900
<b>PROPOSED INDUSTRIAL SUBDIVISION</b> CONTRACT GC130114-01 <small>CONTRACTOR</small> ..... <small>PHONE</small> : ..... <small>APPROVING AUTHORITY</small> <b>TWEED SHIRE COUNCIL</b> <small>PHONE</small> : (02) 6670 2400 or 1300 262 872 <small>After Hours Emergency Calls - 1800 618 326</small>		
<small>CONSULTING ENGINEER</small> <b>BURCHILLS</b> <small>ENGINEERING SOLUTIONS</small> <small>PHONE</small> : (07) 5509 6400		1200



LOCALITY PLAN  
NTS

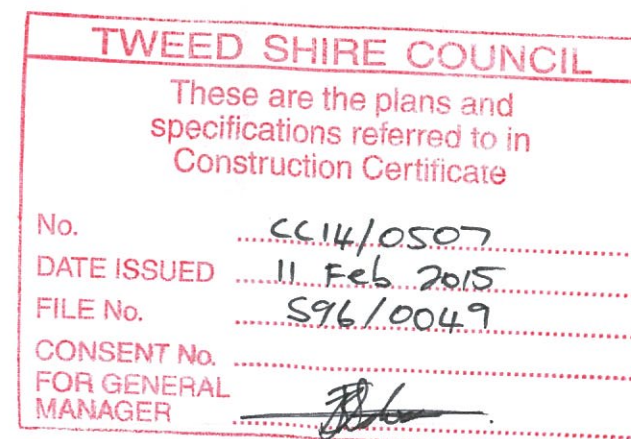
SCHEDULE OF DRAWINGS	
Drawing No.	Drawing Title
GC130114-01-C000	LOCALITY PLAN AND SCHEDULE OF DRAWINGS
GC130114-01-C100	OVERALL LAYOUT AND SITE PLAN
GC130114-01-C200	BULK EARTHWORKS SETOUT PLAN - SHEET 1
GC130114-01-C201	BULK EARTHWORKS SETOUT PLAN - SHEET 2
GC130114-01-C202	BULK EARTHWORKS SETOUT PLAN - SHEET 3
GC130114-01-C203	SITE SECTIONS - SHEET 1
GC130114-01-C204	SITE SECTIONS - SHEET 2
GC130114-01-C205	TYPICAL EARTHWORKS DETAILS
GC130114-01-C210	PRELOAD PHASE 1 PLAN AND NOTES
GC130114-01-C211	PRELOAD PHASE 2 PLAN AND NOTES
GC130114-01-C212	PRELOAD TYPICAL DETAILS SHEET
GC130114-01-C220	SEDIMENT AND EROSION CONTROL LAYOUT PLAN
GC130114-01-C221	SEDIMENT AND EROSION CONTROL TYPICAL DETAILS
GC130114-01-C300	TEMPORARY CONSTRUCTION ACCESS LAYOUT PLAN
GC130114-01-C310	PROPOSED CULVERT CROSSING



NEIGHBOURHOOD PLAN  
NTS

PREPARED FOR

Feitelson Holdings P/L & Garbind P/L



PREPARED BY



Level 8, Australia Fair Tower  
42 Marine Parade, Southport QLD 4215  
PO Box 3766, Australia Fair, Southport QLD 4215  
Phone: +61 7 5509 6400  
Fax: +61 7 5509 6411  
Email: admin@burchills.com.au  
**Coote Burchills Engineering Pty Ltd**  
ABN 76 166 942 365

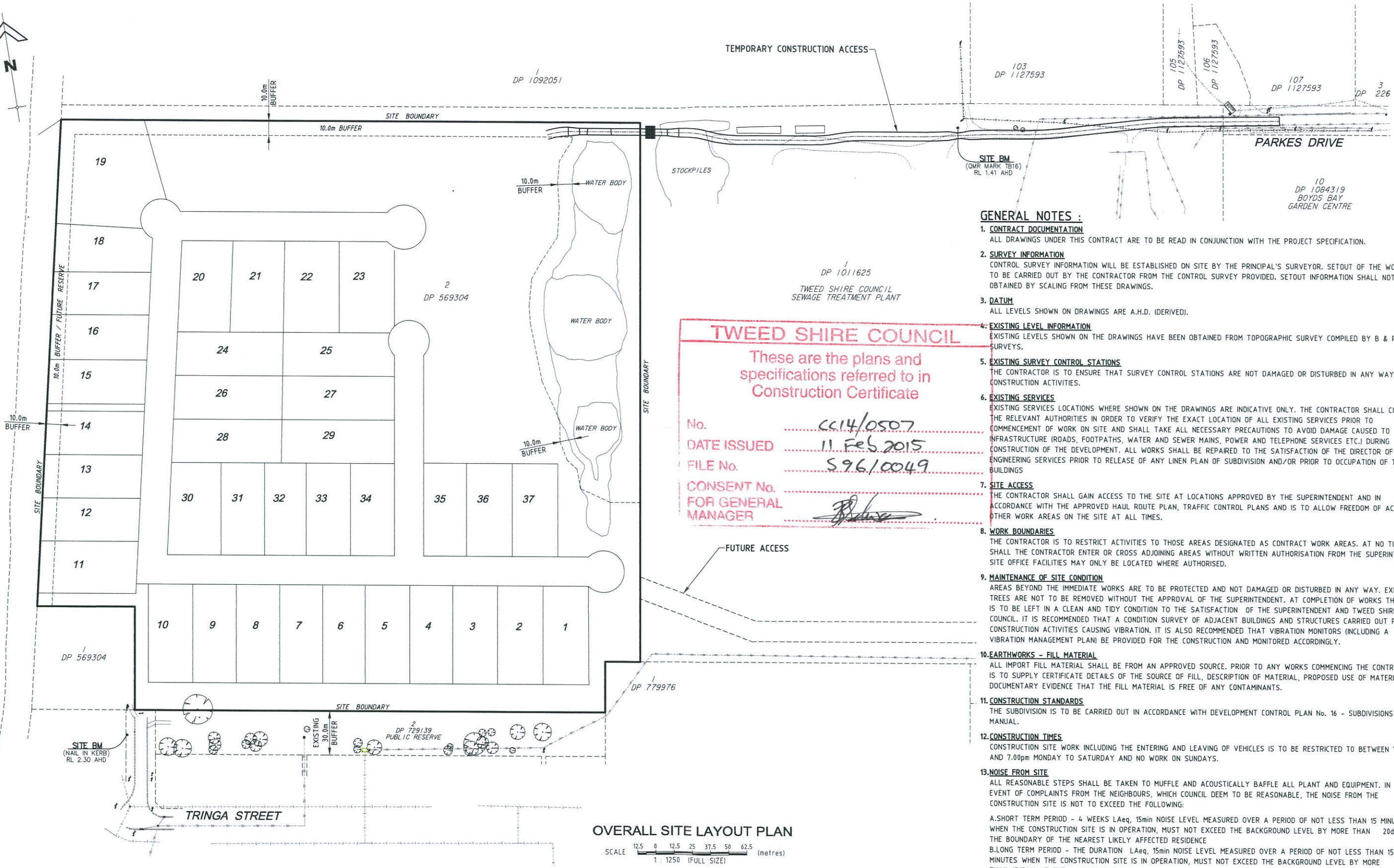
DATE: 14-11-14

PROJECT No.:	DRAWING No.:	VERSION:
GC130114-01	C000	B





COBAKI CREEK



OVERALL SITE LAYOUT PLAN

SCALE 1:1250 (FULL SIZE)

**GENERAL NOTES :**

1. **CONTRACT DOCUMENTATION**  
ALL DRAWINGS UNDER THIS CONTRACT ARE TO BE READ IN CONJUNCTION WITH THE PROJECT SPECIFICATION.
2. **SURVEY INFORMATION**  
CONTROL SURVEY INFORMATION WILL BE ESTABLISHED ON SITE BY THE PRINCIPAL'S SURVEYOR. SETOUT OF THE WORKS IS TO BE CARRIED OUT BY THE CONTRACTOR FROM THE CONTROL SURVEY PROVIDED. SETOUT INFORMATION SHALL NOT BE OBTAINED BY SCALING FROM THESE DRAWINGS.
3. **DATUM**  
ALL LEVELS SHOWN ON DRAWINGS ARE A.H.D. (DERIVED).
4. **EXISTING LEVEL INFORMATION**  
EXISTING LEVELS SHOWN ON THE DRAWINGS HAVE BEEN OBTAINED FROM TOPOGRAPHIC SURVEY COMPILED BY B & P SURVEYS.
5. **EXISTING SURVEY CONTROL STATIONS**  
THE CONTRACTOR IS TO ENSURE THAT SURVEY CONTROL STATIONS ARE NOT DAMAGED OR DISTURBED IN ANY WAY BY CONSTRUCTION ACTIVITIES.
6. **EXISTING SERVICES**  
EXISTING SERVICES LOCATIONS WHERE SHOWN ON THE DRAWINGS ARE INDICATIVE ONLY. THE CONTRACTOR SHALL CONTACT THE RELEVANT AUTHORITIES IN ORDER TO VERIFY THE EXACT LOCATION OF ALL EXISTING SERVICES PRIOR TO COMMENCEMENT OF WORK ON SITE AND SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE CAUSED TO PUBLIC INFRASTRUCTURE (ROADS, FOOTPATHS, WATER AND SEWER MAINS, POWER AND TELEPHONE SERVICES ETC.) DURING CONSTRUCTION OF THE DEVELOPMENT. ALL WORKS SHALL BE REPAIRED TO THE SATISFACTION OF THE DIRECTOR OF ENGINEERING SERVICES PRIOR TO RELEASE OF ANY LINEN PLAN OF SUBDIVISION AND/OR PRIOR TO OCCUPATION OF THE BUILDINGS.
7. **SITE ACCESS**  
THE CONTRACTOR SHALL GAIN ACCESS TO THE SITE AT LOCATIONS APPROVED BY THE SUPERINTENDENT AND IN ACCORDANCE WITH THE APPROVED HAUL ROUTE PLAN, TRAFFIC CONTROL PLANS AND IS TO ALLOW FREEDOM OF ACCESS TO OTHER WORK AREAS ON THE SITE AT ALL TIMES.
8. **WORK BOUNDARIES**  
THE CONTRACTOR IS TO RESTRICT ACTIVITIES TO THOSE AREAS DESIGNATED AS CONTRACT WORK AREAS. AT NO TIME SHALL THE CONTRACTOR ENTER OR CROSS ADJOINING AREAS WITHOUT WRITTEN AUTHORISATION FROM THE SUPERINTENDENT. SITE OFFICE FACILITIES MAY ONLY BE LOCATED WHERE AUTHORISED.
9. **MAINTENANCE OF SITE CONDITION**  
AREAS BEYOND THE IMMEDIATE WORKS ARE TO BE PROTECTED AND NOT DAMAGED OR DISTURBED IN ANY WAY. EXISTING TREES ARE NOT TO BE REMOVED WITHOUT THE APPROVAL OF THE SUPERINTENDENT. AT COMPLETION OF WORKS THE SITE IS TO BE LEFT IN A CLEAN AND TIDY CONDITION TO THE SATISFACTION OF THE SUPERINTENDENT AND TWEED SHIRE COUNCIL. IT IS RECOMMENDED THAT A CONDITION SURVEY OF ADJACENT BUILDINGS AND STRUCTURES CARRIED OUT PRIOR TO CONSTRUCTION ACTIVITIES CAUSING VIBRATION. IT IS ALSO RECOMMENDED THAT VIBRATION MONITORS (INCLUDING A VIBRATION MANAGEMENT PLAN) BE PROVIDED FOR THE CONSTRUCTION AND MONITORED ACCORDINGLY.
10. **EARTHWORKS - FILL MATERIAL**  
ALL IMPORT FILL MATERIAL SHALL BE FROM AN APPROVED SOURCE. PRIOR TO ANY WORKS COMMENCING THE CONTRACTOR IS TO SUPPLY CERTIFICATE DETAILS OF THE SOURCE OF FILL, DESCRIPTION OF MATERIAL, PROPOSED USE OF MATERIAL, DOCUMENTARY EVIDENCE THAT THE FILL MATERIAL IS FREE OF ANY CONTAMINANTS.
11. **CONSTRUCTION STANDARDS**  
THE SUBDIVISION IS TO BE CARRIED OUT IN ACCORDANCE WITH DEVELOPMENT CONTROL PLAN No. 16 - SUBDIVISIONS MANUAL.
12. **CONSTRUCTION TIMES**  
CONSTRUCTION SITE WORK INCLUDING THE ENTERING AND LEAVING OF VEHICLES IS TO BE RESTRICTED TO BETWEEN 7.00am AND 7.00pm MONDAY TO SATURDAY AND NO WORK ON SUNDAYS.
13. **NOISE FROM SITE**  
ALL REASONABLE STEPS SHALL BE TAKEN TO MUFFLE AND ACOUSTICALLY BAFFLE ALL PLANT AND EQUIPMENT. IN THE EVENT OF COMPLAINTS FROM THE NEIGHBOURS, WHICH COUNCIL DEEM TO BE REASONABLE, THE NOISE FROM THE CONSTRUCTION SITE IS NOT TO EXCEED THE FOLLOWING:  
A. SHORT TERM PERIOD - 4 WEEKS LAeq, 15min NOISE LEVEL MEASURED OVER A PERIOD OF NOT LESS THAN 15 MINUTES WHEN THE CONSTRUCTION SITE IS IN OPERATION, MUST NOT EXCEED THE BACKGROUND LEVEL BY MORE THAN 20dB(A) AT THE BOUNDARY OF THE NEAREST LIKELY AFFECTED RESIDENCE  
B. LONG TERM PERIOD - THE DURATION LAeq, 15min NOISE LEVEL MEASURED OVER A PERIOD OF NOT LESS THAN 15 MINUTES WHEN THE CONSTRUCTION SITE IS IN OPERATION, MUST NOT EXCEED THE BACKGROUND LEVEL BY MORE THAN 15dB(A) AT THE BOUNDARY OF THE NEAREST AFFECTED RESIDENCE.

**TWEED SHIRE COUNCIL**

These are the plans and specifications referred to in Construction Certificate

No. CC14/0507

DATE ISSUED 11 Feb 2015

FILE No. S96/0049

CONSENT No. [Signature]

FOR GENERAL MANAGER

FILENAME: \Projects\3125\BULK\Tringa Street Subdivision - Bulk Earthworks\Drawings\3125-01-00B-C.dwg PLOTTED: 15 Jun 2015

**PROPOSED INDUSTRIAL SUBDIVISION**  
60 Tringa Street, Tweed Heads West

prepared for  
Feitelson Holdings P/L & Garbind P/L

**A1** ORIGINAL SIZE BEFORE REDUCTION

VER.	DESCRIPTION	APPR.	DATE
C	TITLEBLOCK UPDATED		15-01-15
B	BUFFERS ADDED TO LAYOUT		14-11-14
A	ORIGINAL ISSUE		15-08-14

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**BURCHILLS**  
ENGINEERING SOLUTIONS

Level 9, Australia Fair Tower  
42 Marine Parade, Southport QLD 4215  
PO Box 3768, Australia Fair, Southport QLD 4215  
Phone: +61 7 5509 6400  
Fax: +61 7 5509 6411  
Email: admin@burchills.com.au  
Coote Burchills Engineering Pty Ltd  
ABN 76 166 942 365

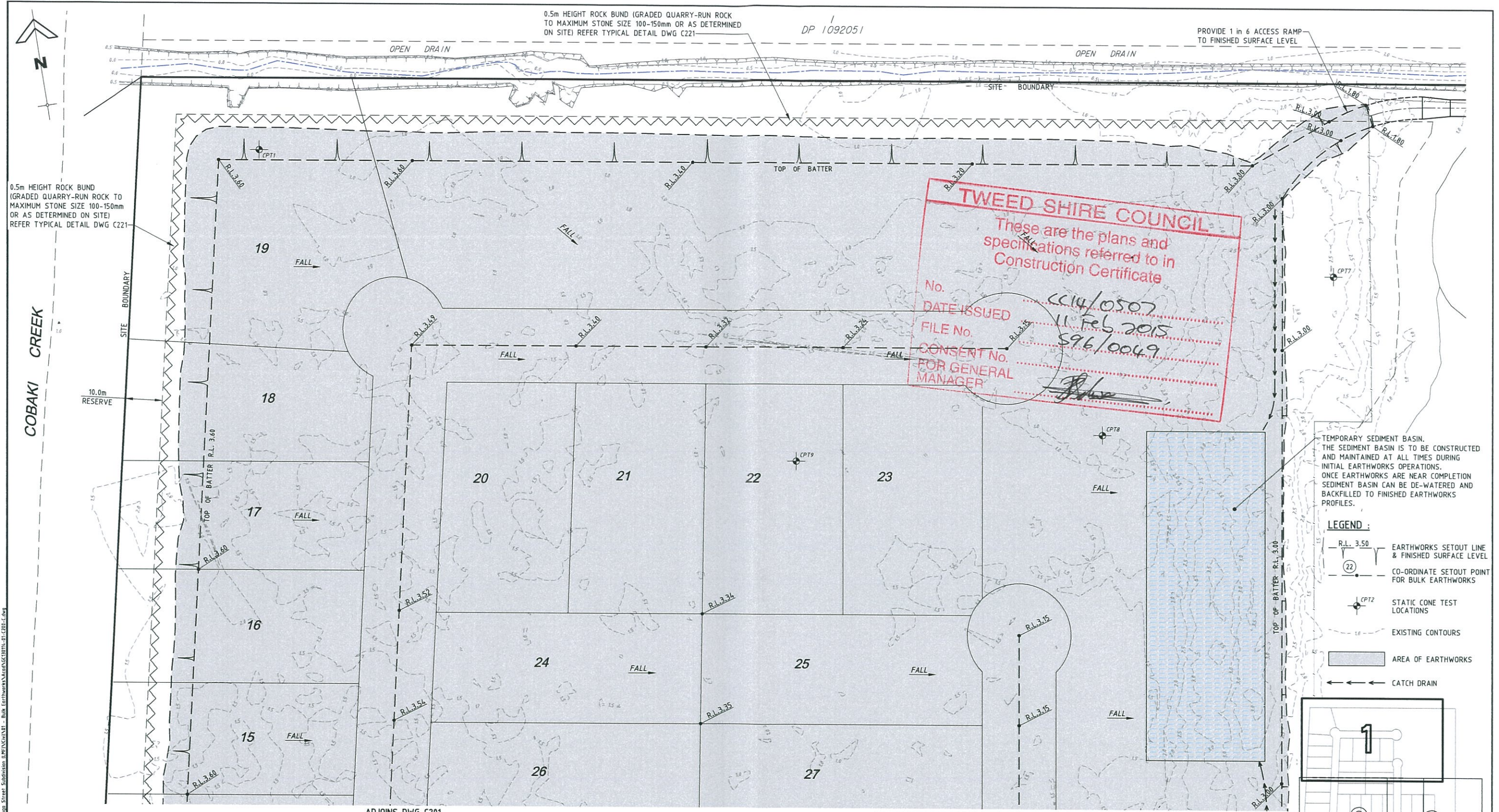
PROJECT:

**TRINGA STREET INDUSTRIAL SUBDIVISION BULK EARTHWORKS**

DRAWING TITLE:

**OVERALL LAYOUT AND SITE PLAN**

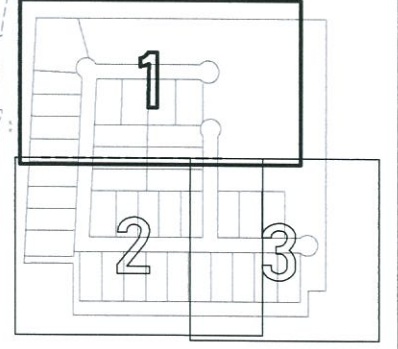
DEVL. APPLIC. No.:	DATE: 15-01-15
PROJECT LEADER: LUCAS FAULKNER	DESIGNER: ADAM COOPER
DRAFTSPERSON: GABRIEL PUMNUT	CHECKED:
APPROVED FOR AND ON BEHALF OF BURCHILLS ENGINEERING SOLUTIONS ABN 76 166 942 365	
[Signature] MIEAust CPEng NPER 2492660	
SCALE:	DATUM: AHD FULL SIZE: A1
PROJECT No.: GC130114-01	DRAWING No.: C100 VERSION: C



**TWEED SHIRE COUNCIL**  
 These are the plans and specifications referred to in Construction Certificate  
 No. CC14/0507  
 DATE ISSUED 11 Feb 2015  
 FILE No. 596/0049  
 CONSENT No. FOR GENERAL MANAGER

TEMPORARY SEDIMENT BASIN. THE SEDIMENT BASIN IS TO BE CONSTRUCTED AND MAINTAINED AT ALL TIMES DURING INITIAL EARTHWORKS OPERATIONS. ONCE EARTHWORKS ARE NEAR COMPLETION SEDIMENT BASIN CAN BE DE-WATERED AND BACKFILLED TO FINISHED EARTHWORKS PROFILES.

- LEGEND :**
- R.L. 3.50 EARTHWORKS SETOUT LINE & FINISHED SURFACE LEVEL
  - (22) CO-ORDINATE SETOUT POINT FOR BULK EARTHWORKS
  - CPT2 STATIC CONE TEST LOCATIONS
  - EXISTING CONTOURS
  - AREA OF EARTHWORKS
  - CATCH DRAIN



**BULK EARTHWORKS SETOUT PLAN**  
 SCALE 1:500 (FULL SIZE) (metres)

**PROPOSED INDUSTRIAL SUBDIVISION**  
 60 Tringa Street, Tweed Heads West  
 prepared for  
 Feitelson Holdings P/L & Garbind P/L  
**A1** ORIGINAL SIZE BEFORE REDUCTION

C	TITLEBLOCK UPDATED	15-01-15
B	EARTHWORKS PROFILE AMENDED	14-11-14
A	ORIGINAL ISSUE	15-08-14
VER.	DESCRIPTION	APPR. DATE

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**BURCHILLS**  
 ENGINEERING SOLUTIONS  
 Level 8, Australia Fair Tower  
 42 Marine Parade, Southport QLD 4215  
 PO Box 3766, Australia Fair, Southport QLD 4215  
 Phone: +61 7 5509 6400  
 Fax: +61 7 5509 6411  
 Email: admin@burchills.com.au  
 Coote Burchills Engineering Pty Ltd  
 ABN 76 166 942 365

PROJECT:  
**TRINGA STREET INDUSTRIAL SUBDIVISION**  
**BULK EARTHWORKS**

DRAWING TITLE:  
**BULK EARTHWORKS SETOUT PLAN**  
**SHEET 1**

DEVEL. APPLIC. No.:	LUCAS FAULKNER	DESIGNER:	ADAM COOPER	DATE:	15-01-15
DRAFTSPERSON:	GABRIEL PUMNUT	CHECKED:			
APPROVED FOR AND ON BEHALF OF <b>BURCHILLS ENGINEERING SOLUTIONS</b> ABN 76 166 942 365 <i>[Signature]</i> MIEAust CPEng NPER 2492660					
SCALE:	AHD	DATUM:	AHD	FULL SIZE:	A1
PROJECT No.:	GC130114-01	DRAWING No.:	C200	VERSION:	C

E:\NAME\Projects\TRINGA\BURCHILLS - Bulk Earthworks\Map\GCH\BULK\_EARTHWORKS.dwg

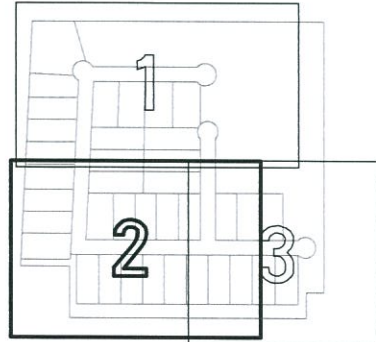


0.5m HEIGHT ROCK BUND  
(GRADED QUARRY-RUN ROCK TO  
MAXIMUM STONE SIZE 100-150mm  
OR AS DETERMINED ON SITE)  
REFER TYPICAL DETAIL DWG C221

COBAKI CREEK

10.0m  
RESERVE

**TWEED SHIRE COUNCIL**  
These are the plans and  
specifications referred to in  
Construction Certificate  
No. CC14/0507  
DATE ISSUED 11 Feb 2015  
FILE No. S96/0049  
CONSENT No. [Signature]  
FOR GENERAL MANAGER 34



KEY PLAN

- LEGEND :**
- EARTHWORKS SETOUT LINE & FINISHED SURFACE LEVEL
  - CO-ORDINATE SETOUT POINT FOR BULK EARTHWORKS
  - STATIC CONE TEST LOCATIONS
  - EXISTING CONTOURS
  - AREA OF EARTHWORKS
  - CATCH DRAIN

0.5m HEIGHT ROCK BUND  
(GRADED QUARRY-RUN ROCK TO MAXIMUM STONE  
SIZE 100-150mm OR AS DETERMINED ON SITE)  
REFER TYPICAL DETAIL DWG C221

DP 569304

**BULK EARTHWORKS SETOUT PLAN**

SCALE 1 : 500 (FULL SIZE) (metres)

DP 729139

0.5m HEIGHT ROCK BUND (GRADED QUARRY-RUN ROCK TO  
MAXIMUM STONE SIZE 100-150mm OR AS DETERMINED ON  
SITE) REFER TYPICAL DETAIL DWG C221

PROPOSED INDUSTRIAL SUBDIVISION  
60 Tringa Street, Tweed Heads West

prepared for  
Feitelson Holdings P/L & Garbind P/L

**A1** ORIGINAL SIZE BEFORE REDUCTION

VER.	DESCRIPTION	APPR.	DATE
C	TITLEBLOCK UPDATED		15-01-15
B	EARTHWORKS PROFILE AMENDED		14-11-14
A	ORIGINAL ISSUE		15-08-14

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**BURCHILLS**  
ENGINEERING SOLUTIONS

Level 8, Australia Fair Tower  
42 Marine Parade, Southport QLD 4215  
PO Box 3766, Australia Fair, Southport QLD 4215  
Phone: +61 7 5509 6400  
Fax: +61 7 5509 6411  
Email: admin@burchills.com.au  
Coote Burchills Engineering Pty Ltd  
ABN 76 166 942 365

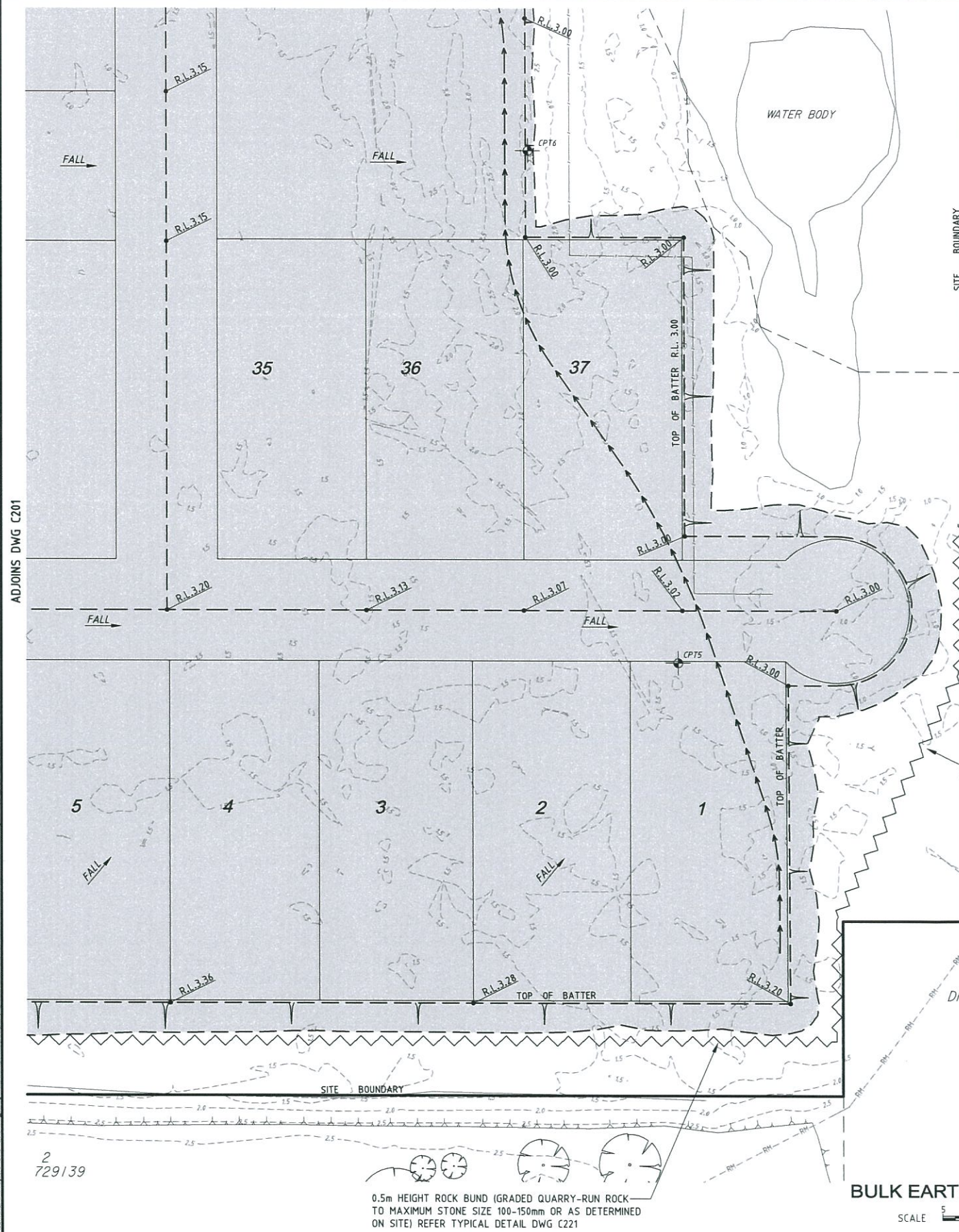
PROJECT:  
**TRINGA STREET  
INDUSTRIAL SUBDIVISION  
BULK EARTHWORKS**

DRAWING TITLE:  
**BULK EARTHWORKS  
SETOUT PLAN  
SHEET 2**

DEVEL. APPLIC. No.:	PROJECT LEADER:	LUCAS FAULKNER	DESIGNER:	ADAM COOPER	DATE:	15-01-15
	DRAFTSPERSON:	GABRIEL PUMNUT	CHECKED:			
APPROVED FOR AND ON BEHALF OF BURCHILLS ENGINEERING SOLUTIONS ABN 76 166 942 365 <i>[Signature]</i> MIEAust CPEng NPER 2492660						
SCALE:	DATUM:	AHD	FULL SIZE:	A1		
PROJECT No.:	DRAWING No.:	C201	VERSION:	C		
GC130114-01						

ELEMENT: N:\Projects\1313\BIB\BIB\Tringa Street Subdivision - BULK Earthworks\AutoCAD\BIB\BIB-SETUP-C.dwg

ADJOINS DWG C202



**TWEED SHIRE COUNCIL**

These are the plans and specifications referred to in Construction Certificate

No. CC14/0507

DATE ISSUED 11 Feb 2015

FILE NO. S96/0049

CONSENT No. \_\_\_\_\_

FOR GENERAL MANAGER \_\_\_\_\_

0.5m HEIGHT ROCK BUND (GRADED QUARRY-RUN ROCK TO MAXIMUM STONE SIZE 100-150mm OR AS DETERMINED ON SITE) REFER TYPICAL DETAIL DWG C221

- EARTHWORKS NOTES:**
- CLEARING AND GRUBBING IS TO BE CARRIED OUT IN ACCORDANCE WITH THE VEGETATION CLEARING REPORT AND MANAGEMENT PLAN PREPARED BY PLANIT CONSULTING PTY LTD. CONTRACTOR TO HAVE A COPY ON SITE AT ALL TIMES.
  - ALL TOPSOIL IS TO BE STRIPPED FROM THE SITE AND STOCKPILED WHERE DIRECTED FOR FUTURE LATER RE-SPREADING TO ALL BATTERS.
  - ALL EARTHWORKS AND PRELOADING IS TO BE UNDERTAKEN IN ACCORDANCE WITH THE SITE GEOTECHNICAL REPORT No. 82589 DATED JULY 2014 PREPARED BY DOUGLAS PARTNERS PTY LTD.
  - ALL STRUCTURAL FILL MATERIAL IS TO BE PLACED, COMPACTED AND TRIMMED TO PAD LEVELS SHOWN ON EARTHWORKS DRAWINGS AND TESTED BY A NATA REGISTERED LABORATORY AND CERTIFIED TO AS3798 LEVEL 1 STANDARD.
  - LEVEL 1 CERTIFICATION FOR ALL EARTHWORKS CONSTRUCTION AND TESTING IS TO BE PROVIDED BY A SUITABLY QUALIFIED GEOTECHNICAL ENGINEER ENGAGED BY THE PRINCIPAL CONTRACTOR.
  - MATCH NEW FILLING NEATLY TO EXISTING PROFILES AT ALL LIMITS OF WORKS AS DIRECTED.
  - NO SOIL, CLAY OR OTHER MATERIAL SHALL BE DISPOSED OF OFF-SITE.
  - RE-USE OF EXISTING SITE MATERIALS IS SUBJECT TO APPROVAL BY THE GEOTECHNICAL ENGINEER UNDER LEVEL 1 CERTIFICATION.

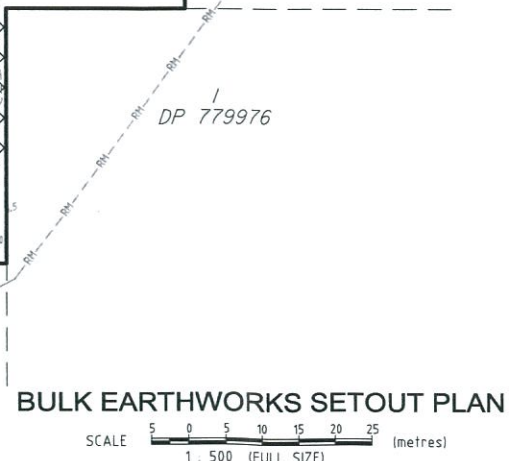
**SCHEDULE OF EARTHWORKS PAD SETOUT CO-ORDINATES**

POINT	EASTING	NORTHING
1	550221.342	6882347.000
2	550249.089	6882478.582
3	550268.773	6882278.004
4	550278.410	6882337.804
5	550283.998	6882354.290
6	550284.559	6882646.789
7	550299.056	6882426.229
8	550317.337	6882513.566
9	550332.055	6882583.878
10	550382.539	6882412.304
11	550390.267	6882455.831
12	550398.122	6882500.076
13	550456.974	6882326.414
14	550468.654	6882398.897
15	550538.804	6882388.028
16	550542.038	6882312.706
17	550545.694	6882430.783
18	550560.356	6882324.703
19	550564.333	6882546.446
20	550566.065	6882230.094
21	550569.758	6882383.040
22	550570.863	6882586.966
23	550573.016	6882600.327
24	550575.786	6882292.272
25	550585.380	6882290.772
26	550586.869	6882605.658
27	550587.694	6882305.348
28	550590.008	6882319.924
29	550597.223	6882608.413
30	550598.136	6882602.483

**NOTE:**  
ALL DESIGN/SETOUT INFORMATION SHOWN ON THIS DRAWING IS AVAILABLE IN DIGITAL FORMAT FROM THE OFFICE OF THE SUPERINTENDENT UPON REQUEST BY THE CONTRACTOR.

**BULK EARTHWORKS SUMMARY**

EXCAVATION	NETT CUT	= EQUIV. SOLID FILL (Compaction Factor 0.85)
SITE RE-SHAPING	N/A cu.m.	N/A cu.m.
STRUCTURAL FILLING	NETT SOLID	
STRUCTURAL FILL	225,000 cu.m.	
<b>SUMMARY:</b> i.e. 225,000 cu.m (NETT SOLID IMPORTED FILL)		



- LEGEND:**
- R.L. 3.50 EARTHWORKS SETOUT LINE & FINISHED SURFACE LEVEL
  - 22 CO-ORDINATE SETOUT POINT FOR BULK EARTHWORKS
  - CPT2 STATIC CONE TEST LOCATIONS
  - EXISTING CONTOURS
  - AREA OF EARTHWORKS
  - CATCH DRAIN

**PROPOSED INDUSTRIAL SUBDIVISION**  
60 Tringa Street, Tweed Heads West

prepared for  
Feitelson Holdings P/L & Garbind P/L

**A1** ORIGINAL SIZE BEFORE REDUCTION

VER.	DESCRIPTION	APPR.	DATE
C	TITLEBLOCK UPDATED		15-01-15
B	EARTHWORKS PROFILE AMENDED		14-11-14
A	ORIGINAL ISSUE		15-08-14

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**BURCHILLS ENGINEERING SOLUTIONS**

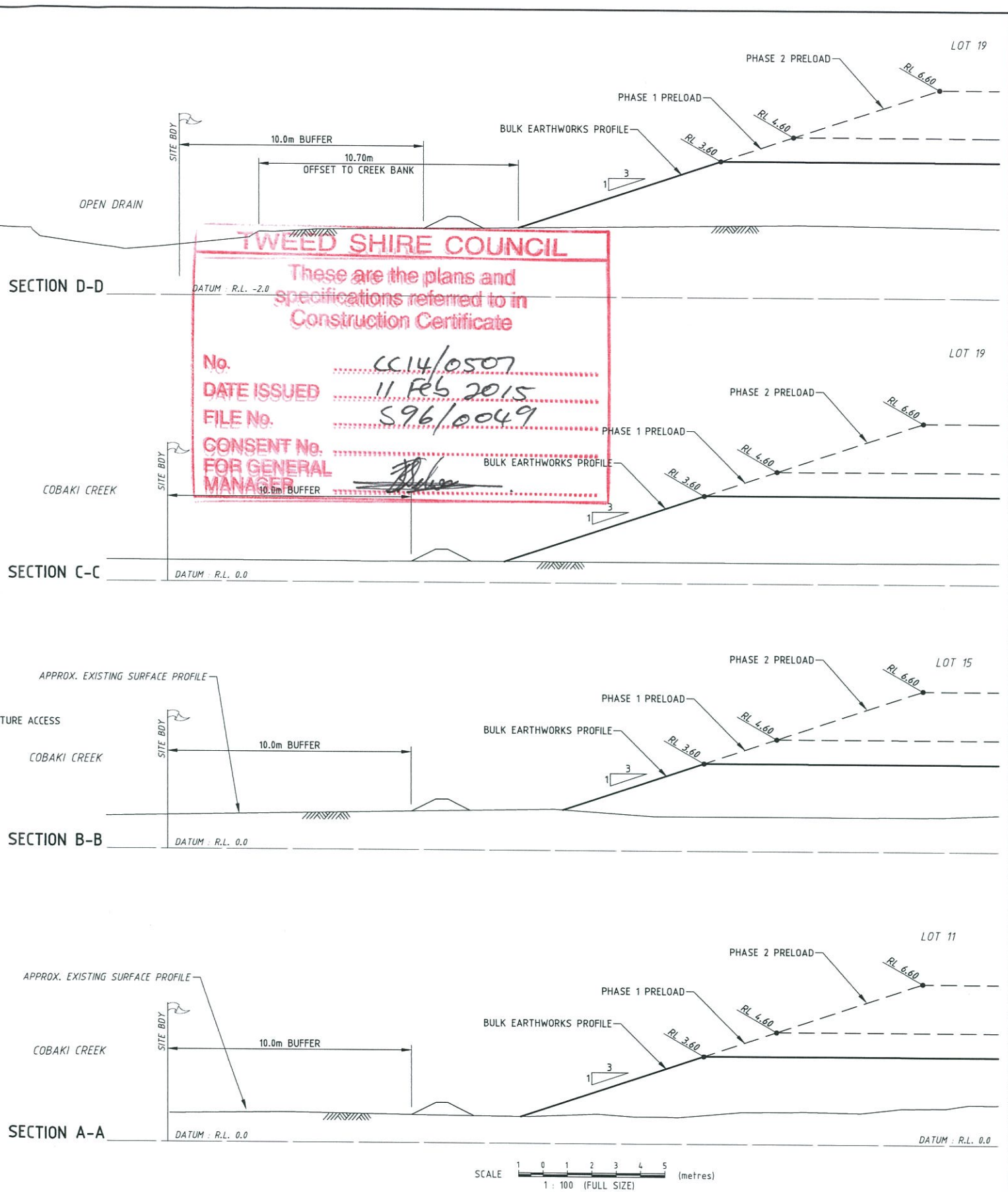
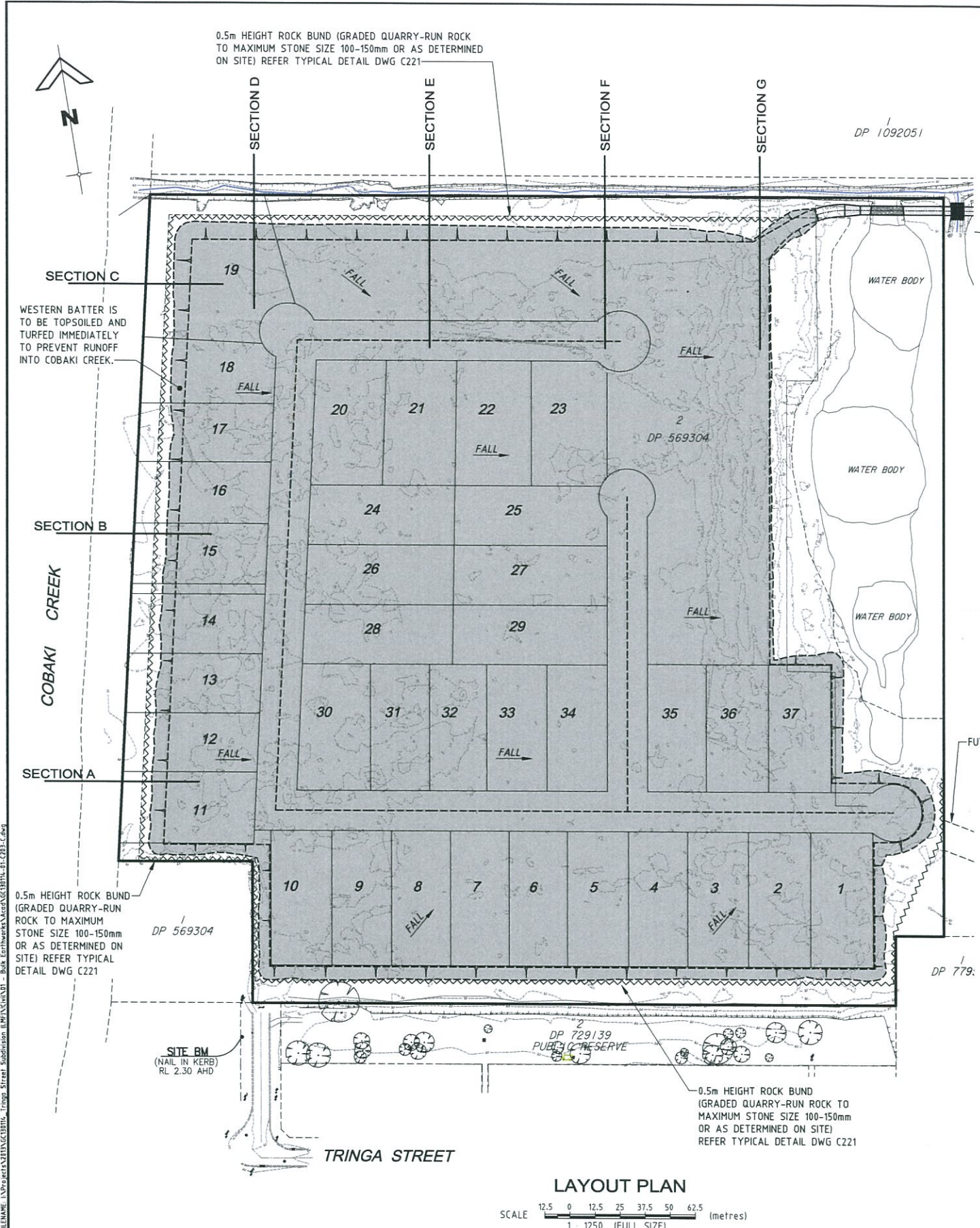
Level 8, Australia Fair Tower  
42 Marine Parade, Southport QLD 4215  
PO Box 3786, Australia Fair, Southport QLD 4215  
Phone: +61 7 5509 6400  
Fax: +61 7 5509 6411  
Email: admin@burchills.com.au  
Coote Burchills Engineering Pty Ltd  
ABN 76 166 942 365

**PROJECT:**  
TRINGA STREET INDUSTRIAL SUBDIVISION  
BULK EARTHWORKS

**DRAWING TITLE:**  
BULK EARTHWORKS SETOUT PLAN  
SHEET 3

DEVEL. APPLIC. No.:	DATE: 15-01-15
PROJECT LEADER: LUCAS FAULKNER	DESIGNER: ADAM COOPER
DRAFTSPERSON: GABRIEL PUMNUT	CHECKED:
APPROVED FOR AND ON BEHALF OF BURCHILLS ENGINEERING SOLUTIONS ABN 76 166 942 365	
MIEAust CPEng NPER 2492660	
SCALE:	DATUM: AHD FULL SIZE: A1
PROJECT No.: GC130114-01	DRAWING No.: C202
	VERSION: C

PROJECT: 15 Jan 2015; I:\Projects\130114\GC130114 - Tringa Street Subdivision Burchills\Drawings\Bulk Earthworks\Setout\BULK\_EARTHWORKS\_SETOUT\_PLAN.dwg



**TWEED SHIRE COUNCIL**

These are the plans and specifications referred to in Construction Certificate

No. CC14/0507

DATE ISSUED 11 Feb 2015

FILE No. S96/0049

CONSENT No. FOR GENERAL MANAGER

PROPOSED INDUSTRIAL SUBDIVISION  
60 Tringa Street, Tweed Heads West

prepared for  
Feitelson Holdings P/L & Garbind P/L

A1 ORIGINAL SIZE BEFORE REDUCTION

VER.	DESCRIPTION	APPR.	DATE
C	TITLEBLOCK UPDATED		15-01-15
B	EARTHWORKS PROFILE AMENDED		14-11-14
A	ORIGINAL ISSUE		15-08-14

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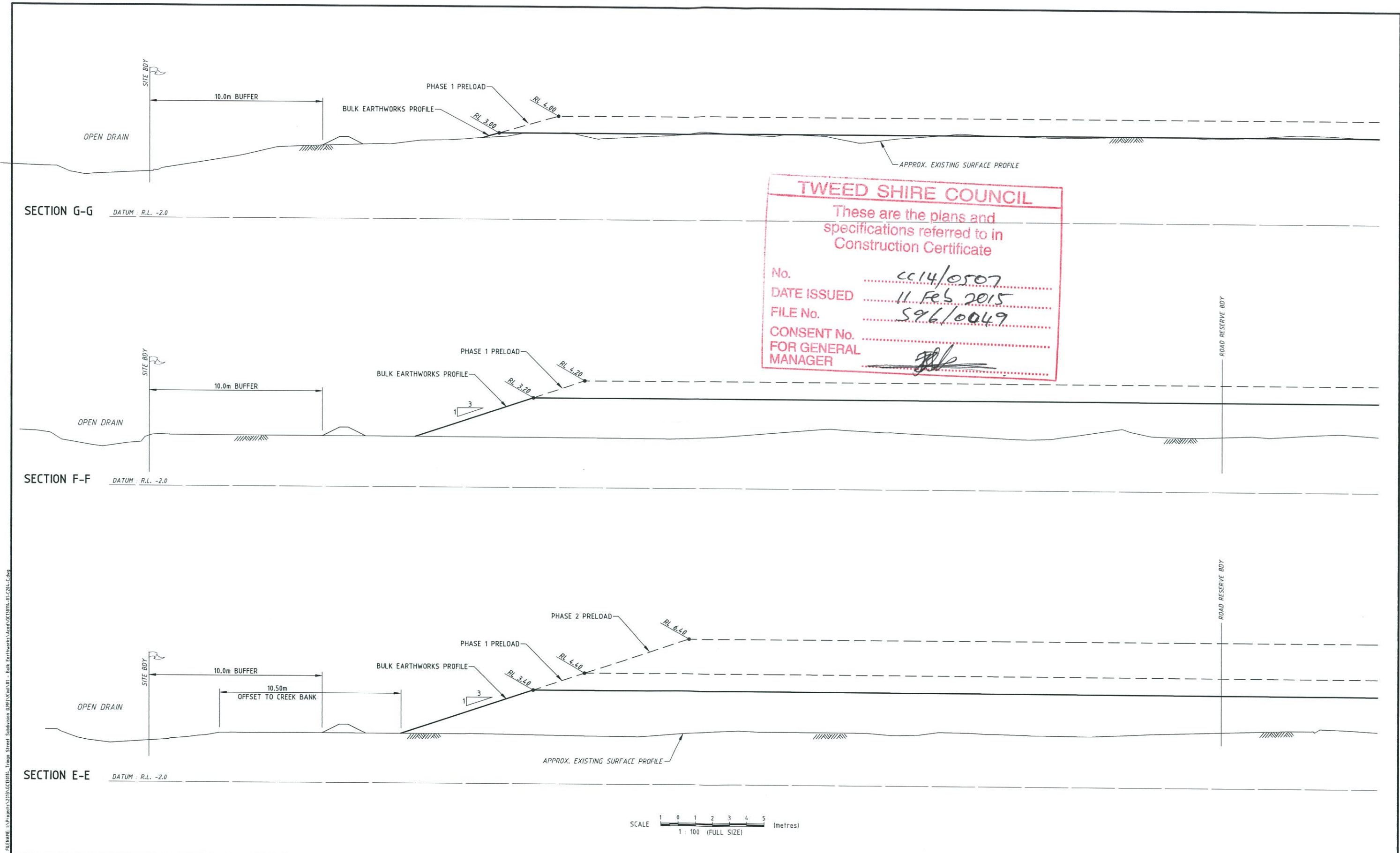
**BURCHILLS**  
ENGINEERING SOLUTIONS

Level 8, Australia Fair Tower  
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PO Box 3766, Australia Fair, Southport QLD 4215  
Phone: +61 7 5509 6400  
Fax: +61 7 5509 6411  
Email: admin@burchills.com.au  
Coote Burchills Engineering Pty Ltd  
ABN 76 166 942 365

PROJECT:  
**TRINGA STREET INDUSTRIAL SUBDIVISION BULK EARTHWORKS**

DRAWING TITLE:  
**SITE SECTIONS SHEET 1**

DEVEL. APPLIC. No.:	DATE: 15-01-15
PROJECT LEADER: LUCAS FAULKNER	DESIGNER: ADAM COOPER
DRAFTSPERSON: GABRIEL PUMNUT	CHECKED:
APPROVED FOR AND ON BEHALF OF BURCHILLS ENGINEERING SOLUTIONS ABN 76 166 942 365	
SCALE:	DATUM: AHD FULL SIZE: A1
PROJECT No.: GC130114-01	DRAWING No.: C203
VERSION: C	



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No. .... CC14/0507

DATE ISSUED .... 11 Feb 2015

FILE No. .... 596/0049

CONSENT No. ....

FOR GENERAL MANAGER *[Signature]*

**PROPOSED INDUSTRIAL SUBDIVISION**  
 60 Tringa Street, Tweed Heads West

prepared for  
 Feitelson Holdings P/L & Garbind P/L

**A1** ORIGINAL SIZE BEFORE REDUCTION

VER.	DESCRIPTION	APPR.	DATE
C	TITLEBLOCK UPDATED		15-01-15
B	EARTHWORKS PROFILE AMENDED		14-11-14
A	ORIGINAL ISSUE		15-08-14

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 Fax: +61 7 5509 6411  
 Email: admin@burchills.com.au  
 Coote Burchills Engineering Pty Ltd  
 ABN 76 166 942 365

PROJECT:

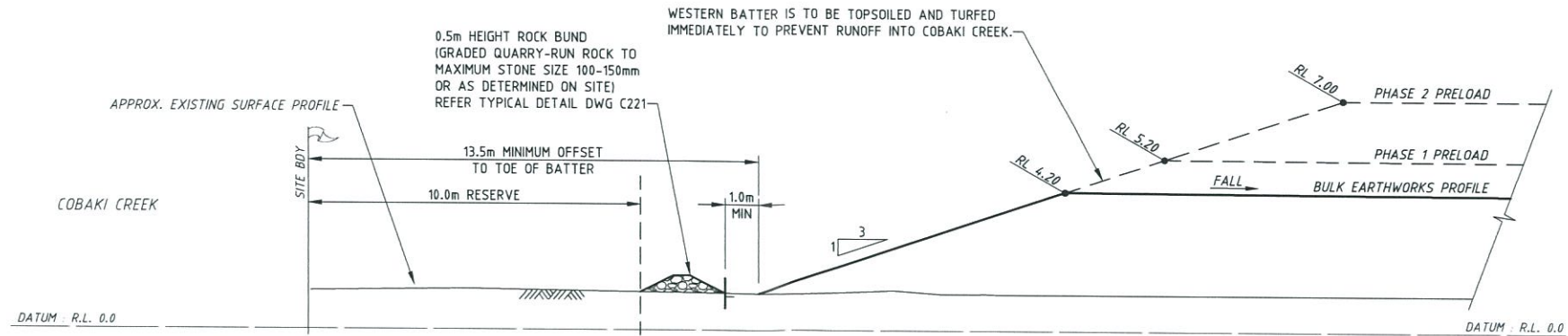
**TRINGA STREET INDUSTRIAL SUBDIVISION**  
**BULK EARTHWORKS**

DRAWING TITLE:

**SITE SECTIONS SHEET 2**

DEVEL APPLIC No.:	DATE: 15-01-15
PROJECT LEADER: LUCAS FAULKNER	DESIGNER: ADAM COOPER
DRAFTSPERSON: GABRIEL PUMNUT	CHECKED:
APPROVED FOR AND ON BEHALF OF BURCHILLS ENGINEERING SOLUTIONS ABN 76 166 942 365	
<i>[Signature]</i>	
SCALE:	DATUM: AHD
PROJECT No.:	DRAWING No.:
GC130114-01	C204
FULL SIZE: A1	VERSION: C

PLOTED: 19 Jan 2015 FILENAME: I:\Projects\2014\GC130114 - Tringa Street Subdivision & P/L\N\Draw\1 - Bulk Earthworks\Draw\GC130114-01-C204-C.dwg



TYPICAL EARTHWORKS PROFILE ALONG WESTERN BATTER

SCALE 1:100 (FULL SIZE)

**TWEED SHIRE COUNCIL**

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No. CC14/0507

DATE ISSUED 11 Feb 2015

FILE No. 596/0049

CONSENT No. \_\_\_\_\_

FOR GENERAL MANAGER

FILENAME: L:\Projects\13119\GC13119 - Tringa Street Subdivision\BENCH\Sub\01 - Bulk Earthworks\Max\GC13119\_RL\_C205\_B.dwg

<p><b>PROPOSED INDUSTRIAL SUBDIVISION</b> 60 Tringa Street, Tweed Heads West</p> <p>prepared for Feitelson Holdings P/L &amp; Garbind P/L</p>						<p><b>COPYRIGHT ©</b> This drawing is copyright and the property of Burchills Engineering Solutions. It must not be retained, copied or used without the authority of Burchills Engineering Solutions. <b>DISCLAIMER</b> This drawing and its contents are electronically generated, are confidential and may only be used for the purpose for which they were intended. Burchills Engineering Solutions will not accept responsibility for any consequences arising from the use of the drawing for other than its intended purpose or where the drawing has been altered, amended or changed either manually or electronically by any third party. <b>NOTE</b> This is an uncontrolled document issued for information purposes only, unless the checked sections are signed or stamped. Figured dimensions take precedence over scale. Do not scale reduced size drawings. Verify dimensions prior to commencing any on-site or off-site works or fabrication.</p>	<p><b>BURCHILLS</b> ENGINEERING SOLUTIONS</p> <p>Level 8, Australia Fair Tower 42 Marine Parade, Southport QLD 4215 PO Box 3766, Australia Fair, Southport QLD 4215 Phone: +61 7 5509 6400 Fax: +61 7 5509 6411 Email: admin@burchills.com.au Coote Burchills Engineering Pty Ltd ABN 76 166 942 365</p>	<p>PROJECT: <b>TRINGA STREET INDUSTRIAL SUBDIVISION</b> <b>BULK EARTHWORKS</b></p>	<p>DRAWING TITLE: <b>TYPICAL EARTHWORKS DETAILS</b></p>	<p>DEVEL. APPLIC. No.: _____ DATE: 15-01-15</p>	<p>PROJECT LEADER: LUCAS FAULKNER DESIGNER: ADAM COOPER</p>
	<p>SCALE: _____ DATUM: AHD FULL SIZE: A1</p>	<p>DRAFTSPERSON: GABRIEL PUMNUT CHECKED: _____</p>									
	<p>PROJECT No.: <b>GC130114-01</b> DRAWING No.: <b>C205</b> VERSION: <b>B</b></p>	<p>APPROVED FOR AND ON BEHALF OF BURCHILLS ENGINEERING SOLUTIONS ABN 76 166 942 365  MIEAust CPEng NPER 2492660</p>									





PROPOSED INDUSTRIAL SUBDIVISION  
60 Tringa Street, Tweed Heads West  
prepared for  
Fetelson Holdings P/L & Garbird P/L

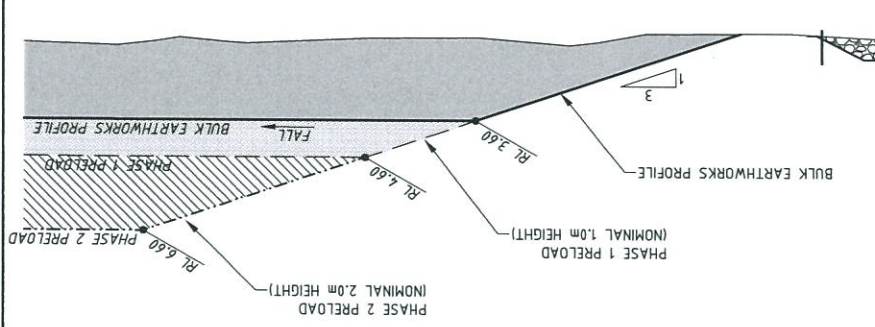
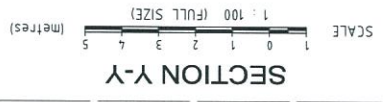
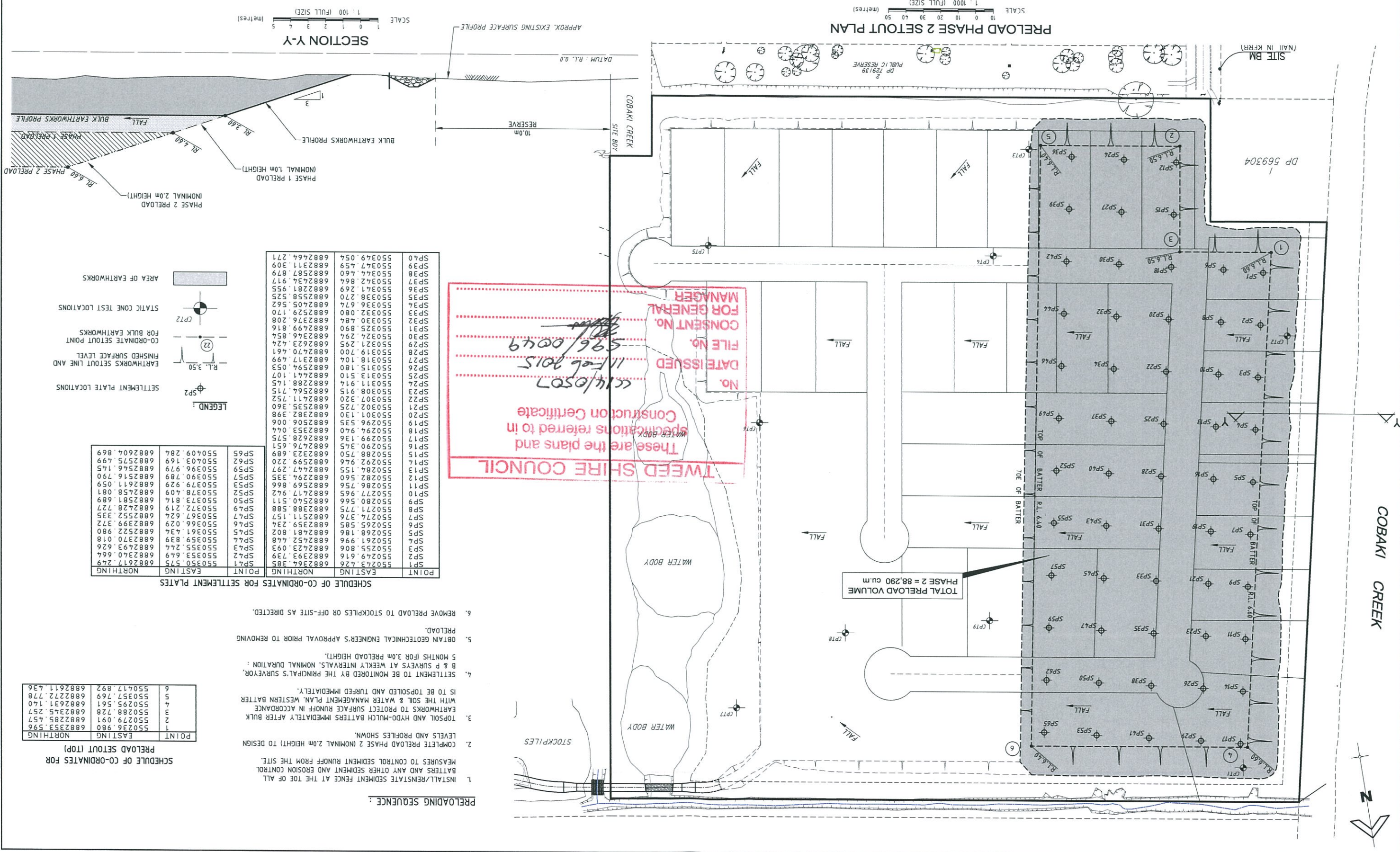
VER.	DESCRIPTION	APPR.	DATE
C	TITLE LOCK UPDATED		15-01-15
B	PRELOAD LEVELS REVISED		14-11-14
A	ORIGINAL ISSUE		15-08-14

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Fax: +61 7 5509 6411  
Phone: +61 7 5509 6400  
Coos Burchills Engineering Pty Ltd  
ABN 76 166 942 365

PROJECT: **TRINGA STREET INDUSTRIAL SUBDIVISION BULK EARTHWORKS**  
DRAWING TITLE: **PRELOAD PHASE 2 PLAN AND NOTES**

DEVEL. APPLIC. No.:	DATE: 15-01-15
PROJECT LEADER: LUCAS FAULKNER	DESIGNER: ADAM COOPER
DRAFTSPERSON: GABRIEL PUMNUT	CHECKED:
APPROVED FOR AND ON BEHALF OF	
BURCHILLS ENGINEERING SOLUTIONS ABN 76 166 942 365	
MEASUREMENT PER 2492660	
SCALE: 1:1000 (FULL SIZE)	DATE: 15-01-15
DRAWING No.:	VERSION: C
PROJECT No.:	GC130114-01
DRAWING No.:	C211



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NO. CC/4/0507  
DATE ISSUED 11 Feb 2015  
FILE NO. 596/0049  
CONSSENT NO. 596/0049  
FOR GENERAL MANAGER

TOTAL PRELOAD VOLUME  
PHASE 2 = 88,290 cu.m

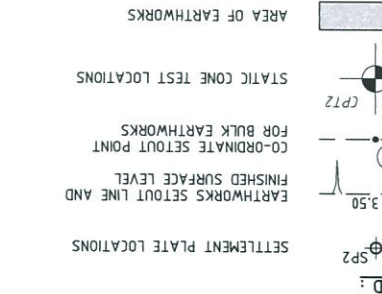
- PRELOADING SEQUENCE:**
1. INSTALL/REINSTATE SEDIMENT FENCE AT THE TOE OF ALL BATTERS AND ANY OTHER SEDIMENT RUNOFF FROM THE SITE. MEASURES TO CONTROL SEDIMENT RUNOFF AND EROSION CONTROL.
  2. COMPLETE PRELOAD PHASE 2 (NOMINAL 2.0m HEIGHT) TO DESIGN LEVELS AND PROFILES SHOWN.
  3. TOPSOIL AND HYDRO-MULCH BATTERS IMMEDIATELY AFTER BULK EARTHWORKS TO PROTECT SURFACE RUNOFF IN ACCORDANCE WITH THE SOIL & WATER MANAGEMENT PLAN, WESTERN BATTER IS TO BE TOPSOILED AND TURFED IMMEDIATELY.
  4. SETTLEMENT TO BE MONITORED BY THE PRINCIPAL'S SURVEYOR, B & P SURVEYS AT WEEKLY INTERVALS, NOMINAL DURATION: 5 MONTHS (FOR 3.0m PRELOAD HEIGHT).
  5. OBTAIN GEOTECHNICAL ENGINEER'S APPROVAL PRIOR TO REMOVING PRELOAD.
  6. REMOVE PRELOAD TO STOCKPILES OR OFF-SITE AS DIRECTED.

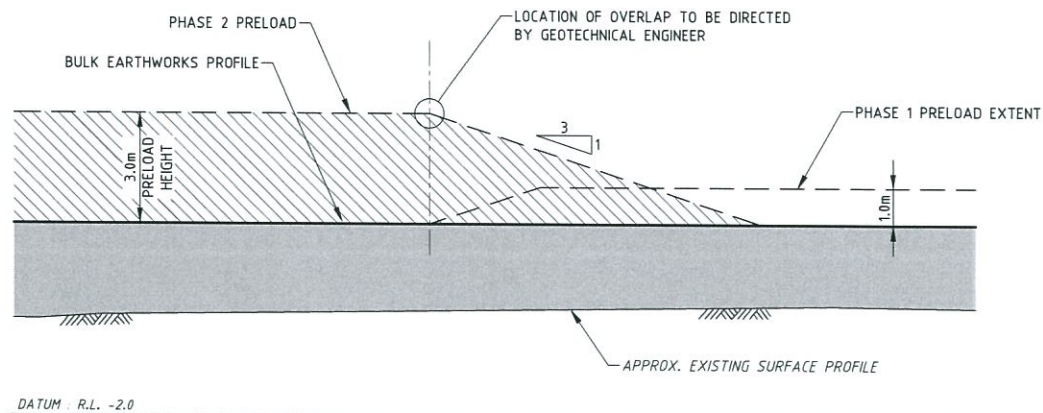
SCHEDULE OF CO-ORDINATES FOR SETTLEMENT PLATES

POINT	EASTING	NORTHING
1	550236.980	6882353.596
2	550279.091	6882285.457
3	550288.728	6882345.257
4	550295.561	6882631.140
5	550357.769	6882272.778
6	550417.892	6882611.436

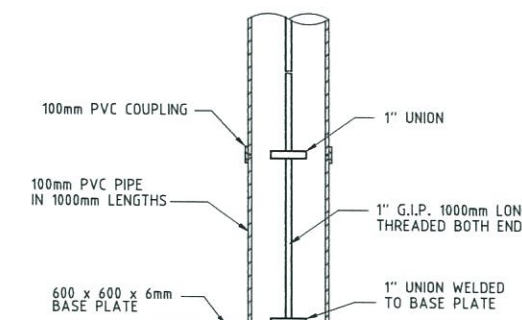
SCHEDULE OF CO-ORDINATES FOR SETTLEMENT PLATES

POINT	EASTING	NORTHING
SP1	550249.616	6882293.739
SP2	550255.806	6882723.093
SP3	550261.996	6882452.448
SP4	550268.186	6882481.802
SP5	550274.376	6882511.157
SP6	550280.566	6882540.511
SP7	550286.756	6882569.866
SP8	550292.946	6882599.220
SP9	550299.136	6882628.575
SP10	550305.326	6882657.930
SP11	550311.516	6882687.285
SP12	550317.706	6882716.640
SP13	550323.896	6882746.000
SP14	550330.086	6882775.355
SP15	550336.276	6882804.710
SP16	550342.466	6882834.065
SP17	550348.656	6882863.420
SP18	550354.846	6882892.775
SP19	550361.036	6882922.130
SP20	550367.226	6882951.485
SP21	550373.416	6882980.840
SP22	550379.606	6883010.195
SP23	550385.796	6883039.550
SP24	550391.986	6883068.905
SP25	550398.176	6883098.260
SP26	550404.366	6883127.615
SP27	550410.556	6883156.970
SP28	550416.746	6883186.325
SP29	550422.936	6883215.680
SP30	550429.126	6883245.035
SP31	550435.316	6883274.390
SP32	550441.506	6883303.745
SP33	550447.696	6883333.100
SP34	550453.886	6883362.455
SP35	550460.076	6883391.810
SP36	550466.266	6883421.165
SP37	550472.456	6883450.520
SP38	550478.646	6883479.875
SP39	550484.836	6883509.230
SP40	550491.026	6883538.585





**PRELOAD STAGING TYPICAL SECTION**



**SETTLEMENT PLATE DETAILS**

NOT TO SCALE

**NOTE:**  
 BASE PLATE TO BE LEVELLED ON TO STRIPPED SURFACE. SURVEY BASE PLATE FOR LEVEL, INSTALL FIRST LENGTH OF G.I.P. PIPE & TAKE X, Y, Z, CO-ORDINATES AT TOP OF PIPE. "LOCTITE" THREADS TO WELDED UNION ON BASE PLATE. INSTALL FIRST LENGTH OF PVC PIPE AND MOUND SAND TO 500mm ABOVE BASE PLATE.

**TWEED SHIRE COUNCIL**

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No. CC14/0507

DATE ISSUED 11 Feb 2015

FILE No. 596/0049

CONSENT No. \_\_\_\_\_

FOR GENERAL MANAGER

FILENAME: L:\Projects\3103\SC001011 - Tringa Street Subdivision - Bulk Earthworks.dwg; PLOT DATE: 15-01-15

<b>PROPOSED INDUSTRIAL SUBDIVISION</b> 60 Tringa Street, Tweed Heads West  prepared for <b>Feitelson Holdings P/L &amp; Garbind P/L</b>												DEVEL. APPLIC. No.:	DATE: 15-01-15	
												PROJECT LEADER: LUCAS FAULKNER	DESIGNER: ADAM COOPER	
<b>A1 ORIGINAL SIZE BEFORE REDUCTION</b>												DRAFTSPERSON: GABRIEL PUMNUT		CHECKED:
												APPROVED FOR AND ON BEHALF OF BIRCHILLS ENGINEERING SOLUTIONS ABN 76 166 942 365		MIEAust CPEng NPER 2492660
												SCALE:	DATUM: AHD	
												PROJECT No.:	DRAWING No.:	VERSION:
												GC130114-01	C212	B

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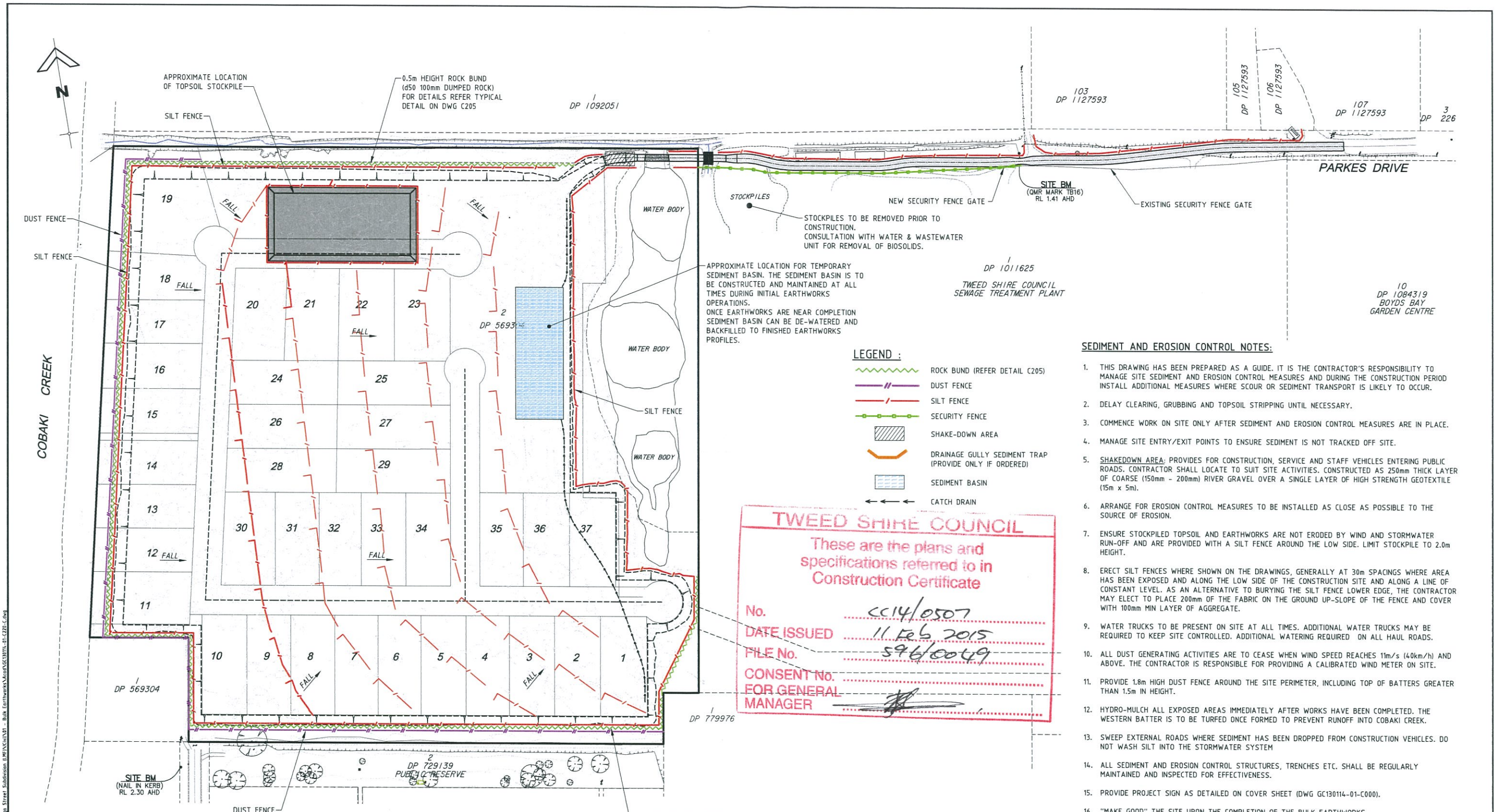
**BURCHILLS**  
 ENGINEERING SOLUTIONS

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 42 Marine Parade, Southport QLD 4215  
 PO Box 3766, Australia Fair, Southport QLD 4215  
 Phone: +61 7 5509 6400  
 Fax: +61 7 5509 6411  
 Email: admin@burchills.com.au  
**Coote Burchills Engineering Pty Ltd**  
 ABN 76 166 942 365

PROJECT:  
**TRINGA STREET INDUSTRIAL SUBDIVISION**  
**BULK EARTHWORKS**

DRAWING TITLE:  
**PRELOAD TYPICAL DETAILS SHEET**

DEVEL. APPLIC. No.:	DATE: 15-01-15
PROJECT LEADER: LUCAS FAULKNER	DESIGNER: ADAM COOPER
DRAFTSPERSON: GABRIEL PUMNUT	CHECKED:
APPROVED FOR AND ON BEHALF OF BIRCHILLS ENGINEERING SOLUTIONS ABN 76 166 942 365	
MIEAust CPEng NPER 2492660	
SCALE:	DATUM: AHD
FULL SIZE: A1	
PROJECT No.:	DRAWING No.:
GC130114-01	C212
VERSION:	B



STOCKPILES TO BE REMOVED PRIOR TO CONSTRUCTION. CONSULTATION WITH WATER & WASTEWATER UNIT FOR REMOVAL OF BIOSOLIDS.

APPROXIMATE LOCATION FOR TEMPORARY SEDIMENT BASIN. THE SEDIMENT BASIN IS TO BE CONSTRUCTED AND MAINTAINED AT ALL TIMES DURING INITIAL EARTHWORKS OPERATIONS. ONCE EARTHWORKS ARE NEAR COMPLETION SEDIMENT BASIN CAN BE DE-WATERED AND BACKFILLED TO FINISHED EARTHWORKS PROFILES.

- LEGEND :**
- ROCK BUND (REFER DETAIL C205)
  - DUST FENCE
  - SILT FENCE
  - SECURITY FENCE
  - SHAKE-DOWN AREA
  - DRAINAGE GULLY SEDIMENT TRAP (PROVIDE ONLY IF ORDERED)
  - SEDIMENT BASIN
  - CATCH DRAIN

**SEDIMENT AND EROSION CONTROL NOTES:**

1. THIS DRAWING HAS BEEN PREPARED AS A GUIDE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MANAGE SITE SEDIMENT AND EROSION CONTROL MEASURES AND DURING THE CONSTRUCTION PERIOD INSTALL ADDITIONAL MEASURES WHERE SCOUR OR SEDIMENT TRANSPORT IS LIKELY TO OCCUR.
2. DELAY CLEARING, GRUBBING AND TOPSOIL STRIPPING UNTIL NECESSARY.
3. COMMENCE WORK ON SITE ONLY AFTER SEDIMENT AND EROSION CONTROL MEASURES ARE IN PLACE.
4. MANAGE SITE ENTRY/EXIT POINTS TO ENSURE SEDIMENT IS NOT TRACKED OFF SITE.
5. SHAKEDOWN AREA: PROVIDES FOR CONSTRUCTION, SERVICE AND STAFF VEHICLES ENTERING PUBLIC ROADS. CONTRACTOR SHALL LOCATE TO SUIT SITE ACTIVITIES. CONSTRUCTED AS 250mm THICK LAYER OF COARSE (150mm - 200mm) RIVER GRAVEL OVER A SINGLE LAYER OF HIGH STRENGTH GEOTEXTILE (15m x 5m).
6. ARRANGE FOR EROSION CONTROL MEASURES TO BE INSTALLED AS CLOSE AS POSSIBLE TO THE SOURCE OF EROSION.
7. ENSURE STOCKPILED TOPSOIL AND EARTHWORKS ARE NOT ERODED BY WIND AND STORMWATER RUN-OFF AND ARE PROVIDED WITH A SILT FENCE AROUND THE LOW SIDE. LIMIT STOCKPILE TO 2.0m HEIGHT.
8. ERECT SILT FENCES WHERE SHOWN ON THE DRAWINGS, GENERALLY AT 30m SPACINGS WHERE AREA HAS BEEN EXPOSED AND ALONG THE LOW SIDE OF THE CONSTRUCTION SITE AND ALONG A LINE OF CONSTANT LEVEL. AS AN ALTERNATIVE TO BURYING THE SILT FENCE LOWER EDGE, THE CONTRACTOR MAY ELECT TO PLACE 200mm OF THE FABRIC ON THE GROUND UP-SLOPE OF THE FENCE AND COVER WITH 100mm MIN LAYER OF AGGREGATE.
9. WATER TRUCKS TO BE PRESENT ON SITE AT ALL TIMES. ADDITIONAL WATER TRUCKS MAY BE REQUIRED TO KEEP SITE CONTROLLED. ADDITIONAL WATERING REQUIRED ON ALL HAUL ROADS.
10. ALL DUST GENERATING ACTIVITIES ARE TO CEASE WHEN WIND SPEED REACHES 11m/s (40km/h) AND ABOVE. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING A CALIBRATED WIND METER ON SITE.
11. PROVIDE 1.8m HIGH DUST FENCE AROUND THE SITE PERIMETER, INCLUDING TOP OF BATTERS GREATER THAN 1.5m IN HEIGHT.
12. HYDRO-MULCH ALL EXPOSED AREAS IMMEDIATELY AFTER WORKS HAVE BEEN COMPLETED. THE WESTERN BATTER IS TO BE TURFED ONCE FORMED TO PREVENT RUNOFF INTO COBAKI CREEK.
13. SWEEP EXTERNAL ROADS WHERE SEDIMENT HAS BEEN DROPPED FROM CONSTRUCTION VEHICLES. DO NOT WASH SILT INTO THE STORMWATER SYSTEM.
14. ALL SEDIMENT AND EROSION CONTROL STRUCTURES, TRENCHES ETC. SHALL BE REGULARLY MAINTAINED AND INSPECTED FOR EFFECTIVENESS.
15. PROVIDE PROJECT SIGN AS DETAILED ON COVER SHEET (DWG GC130114-01-C000).
16. "MAKE GOOD" THE SITE UPON THE COMPLETION OF THE BULK EARTHWORKS.

**TWEED SHIRE COUNCIL**

These are the plans and specifications referred to in Construction Certificate

No. CC14/0507

DATE ISSUED 11 Feb 2015

FILE No. 596/0049

CONSENT No.                     

FOR GENERAL MANAGER                     

**OVERALL SITE LAYOUT PLAN**

SCALE 1:1250 (FULL SIZE)

**TEMPORARY SEDIMENT BASIN CALCULATIONS**

Catchment	Area (ha)	K1 (Constant)	K2 (Constant)	I (yr, 12hr) (mm/hr)	R (Y%, 5day) (mm)	Cv	Vs Volume of Settling Zone (m3)	Settling Depth (m)	Sediment Storage Depth (m)	Batter Slope (eg. 2/1=2)	Width (m)	Length (m)	Sediment Storage Volume (m3)	Total Volume Required (m3)
A	12.0	17.0	11.2	1.56	37.7	0.3	1,448	0.6	0.3	3	32	89	724	2,172

**PROPOSED INDUSTRIAL SUBDIVISION**  
60 Tringa Street, Tweed Heads West

prepared for  
Feitelson Holdings P/L & Garbind P/L

**A1** ORIGINAL SIZE BEFORE REDUCTION

VER.	DESCRIPTION	APPR.	DATE
C	SECURITY FENCE ADDED & NOTES UPDATED		15-01-15
B	NOTES REVISED, LAYOUT UPDATED		14-11-14
A	ORIGINAL ISSUE		15-06-14

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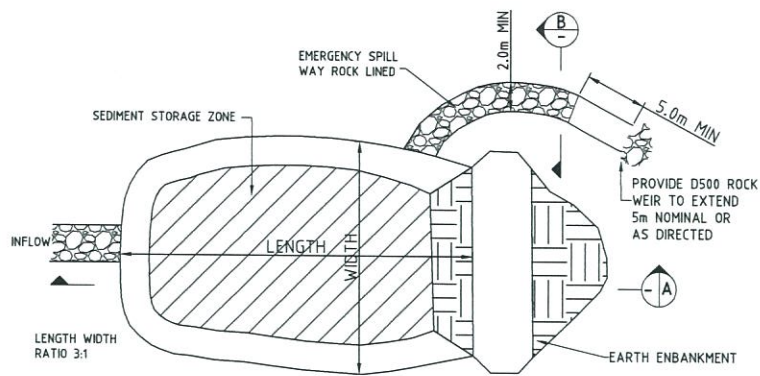
Level 8, Australia Fair Tower  
42 Marine Parade, Southport QLD 4215  
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Coote Burchills Engineering Pty Ltd  
ABN 76 166 942 365

PROJECT:  
**TRINGA STREET INDUSTRIAL SUBDIVISION BULK EARTHWORKS**

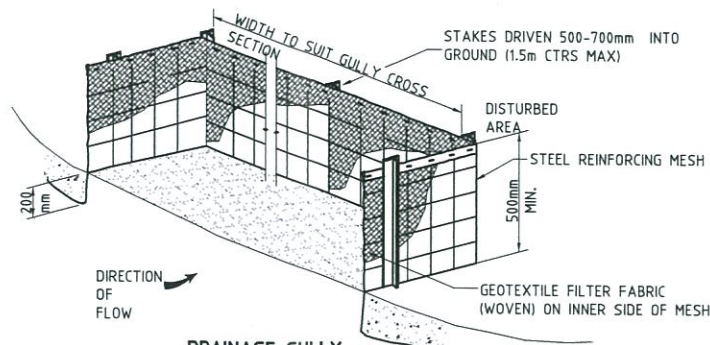
DRAWING TITLE:  
**SEDIMENT AND EROSION CONTROL LAYOUT PLAN**

DEVEL. APPLIC. No.:	DATE:	15-01-15
PROJECT LEADER: LUCAS FAULKNER	DESIGNER:	ADAM COOPER
DRAFTSPERSON: GABRIEL PUMNUT	CHECKED:	
APPROVED FOR AND ON BEHALF OF BURCHILLS ENGINEERING SOLUTIONS ABN 76 166 942 365		
<i>[Signature]</i>		
SCALE:	DATUM:	AHD FULL SIZE: A1
PROJECT No.:	DRAWING No.:	VERSION:
GC130114-01	C220	C

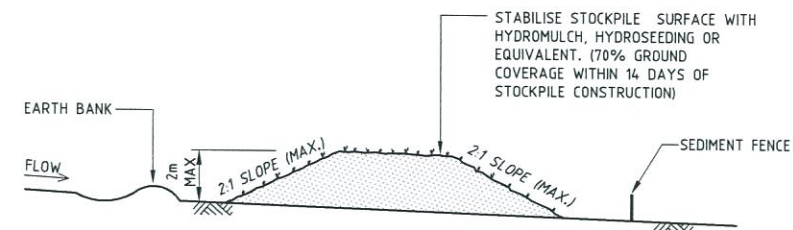
PLOTED: 5 Jun 2015 FILENAME: I:\Projects\BIB\GC130114 - Tringa Street Subdivision - Burchills\GC130114 - BULK Earthworks\GC130114 - BULK Earthworks - 01-C220.dwg



**TYPE D (WET) SEDIMENT BASIN**  
N.T.S.



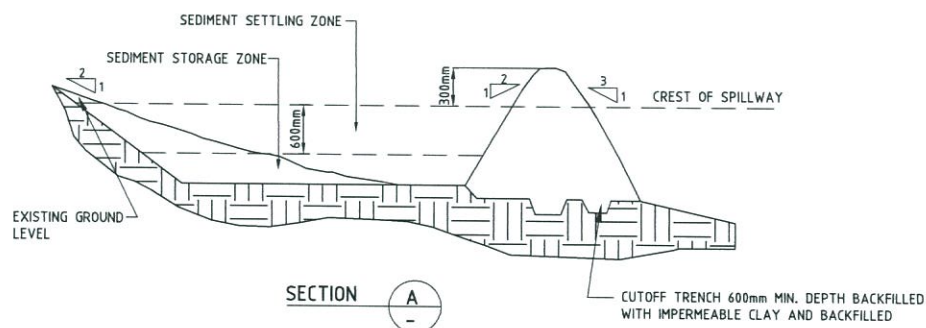
**DRAINAGE GULLY  
SEDIMENT TRAP**  
N.T.S.



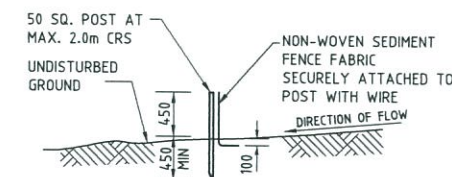
**TYPICAL STOCKPILE CONFIGURATION**  
N.T.S.

**NOTES:**

1. LOCATE STOCKPILES AT TOP OF CATCHMENT ON FLAT GROUND AND NOT WITHIN 5m OF CONCENTRATED FLOW PATHS.
2. STOCKPILES SHOULD HAVE EARTH BANKS UPSLOPE FOR DIVERSION OF UPSTREAM WATER AROUND STOCKPILE AND SEDIMENT FENCES PLACED 1-2m DOWNSLOPE.



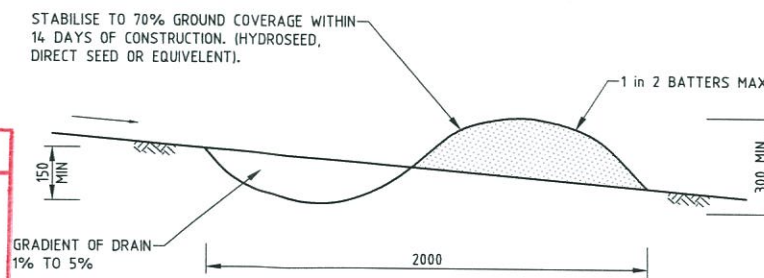
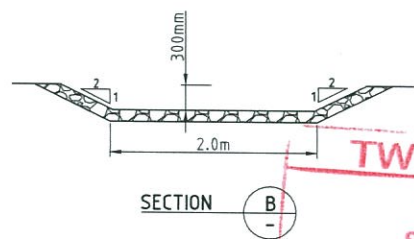
**ROCK BUND**  
N.T.S.



**SILT FENCE**  
N.T.S.

**NOTES:**

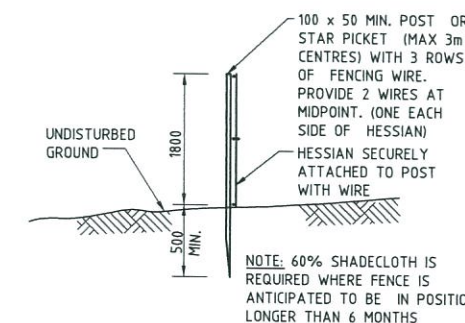
1. NO SHADE CLOTH TO BE USED FOR SEDIMENT FENCING.
2. CATCHMENT DRAINING TO SEDIMENT FENCE SHOULD BE MAX 0.6ha.
3. UPSTREAM SLOPE TO BE 1:2 MAX AND SLOPE LENGTH 60m MAX.
4. SEDIMENT FENCES ARE TO BE INSTALLED PARALLEL TO CONTOURS WHERE POSSIBLE AND HAVE RETURNS EVERY 30 METRES, TO LIMIT CONTRIBUTING CATCHMENT AND ENCOURAGE PONDING
5. SEDIMENT FENCES TO BE INSTALLED NO MORE THAN 5 METRES FROM DISTURBED AREAS OR STOCKPILES.



**CATCH DRAIN / EARTH BANK DETAIL**  
N.T.S.

**NOTES:**

1. ONLY TO BE USED AS TEMPORARY BANK WHERE MAXIMUM UPSLOPE LENGTH IS 80 METRES.
2. BUILD DRAINS WITH CIRCULAR, PARABOLIC OR TRAPEZOIDAL CROSS SECTIONS RATHER THAN V SHAPED



**DUST CONTROL FENCE**  
N.T.S.

**TWEED SHIRE COUNCIL**

These are the plans and specifications referred to in Construction Certificate

No. .... CC.14/0507

DATE ISSUED .... 11 Feb 2015

FILE No. .... 596/0049

CONSENT No. ....

FOR GENERAL MANAGER

FILENAME: I:\Projects\2015\GC130114 - Bulk Earthworks\Drawings\GC130114-01-C21-B.dwg PLOTTED: 15 Jun 2015

PROPOSED INDUSTRIAL SUBDIVISION  
60 Tringa Street, Tweed Heads West

prepared for  
Feitelson Holdings P/L & Garbind P/L

**A1** ORIGINAL SIZE BEFORE REDUCTION

VER.	DESCRIPTION	APPR.	DATE
B	TITLEBLOCK UPDATED		15-01-15
A	ORIGINAL ISSUE		14-11-14

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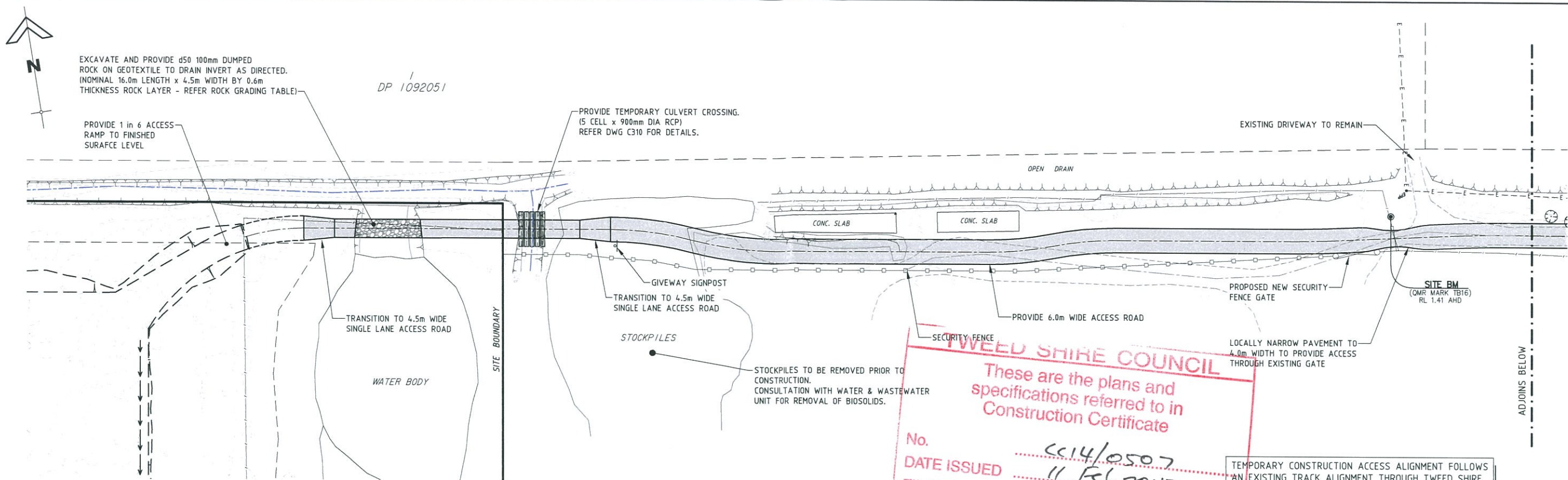
PROJECT:

**TRINGA STREET  
INDUSTRIAL SUBDIVISION  
BULK EARTHWORKS**

DRAWING TITLE:

**SEDIMENT AND EROSION  
CONTROL  
TYPICAL DETAILS**

DEVEL APPLIC. No.:	DATE: 15-01-15
PROJECT LEADER: LUCAS FAULKNER	DESIGNER: ADAM COOPER
DRAFTSPERSON: GABRIEL PUMNUT	CHECKED:
APPROVED FOR AND ON BEHALF OF BURCHILLS ENGINEERING SOLUTIONS ABN 76 166 942 365	
MIEAust CPEng NPER 2492660	
SCALE:	DATUM: AHD
PROJECT No.: GC130114-01	DRAWING No.: C221
	VERSION: B



SITE ACCESS LAYOUT PLAN

**TWEED SHIRE COUNCIL**

These are the plans and specifications referred to in Construction Certificate

No. CC14/0507

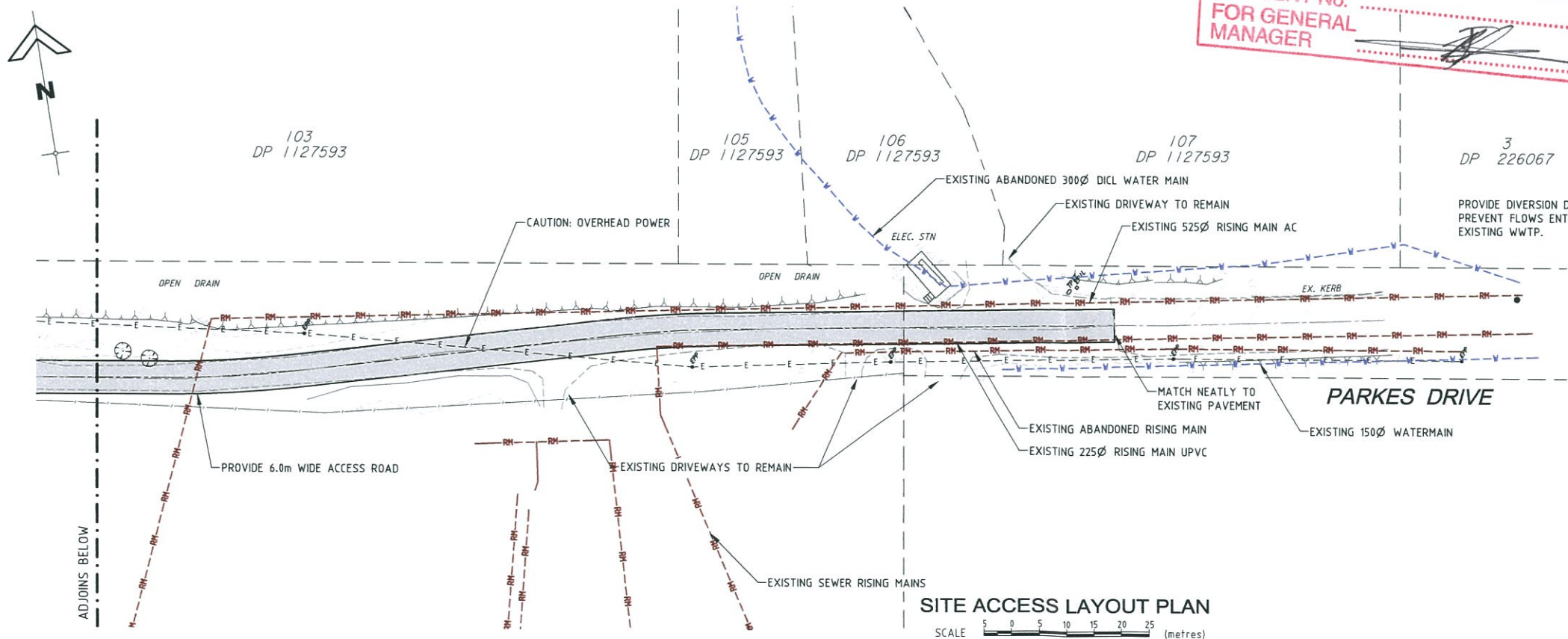
DATE ISSUED 11 Feb 2015

FILE No. 596/0049

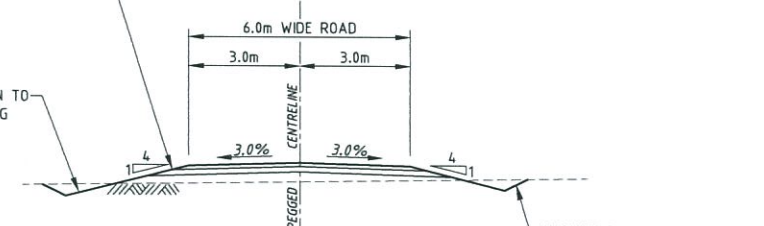
CONSENT No. FOR GENERAL MANAGER

TEMPORARY CONSTRUCTION ACCESS ALIGNMENT FOLLOWS AN EXISTING TRACK ALIGNMENT THROUGH TWEED SHIRE COUNCIL SEWERAGE TREATMENT PLANT SITE.

PAVEMENT DETAILS  
 100mm THICK COMPACTED BASE COURSE GRAVEL (MIN CBR 60)  
 150mm THICK COMPACTED SUB-BASE GRAVEL (MIN CBR 45) PROVISIONAL ON EXISTING SUBGRADE (NOT REQUIRED OVER EXISTING GRAVEL ACCESS TRACK)  
 IN AREAS OF POOR SUBGRADE, SEEK INSTRUCTION FROM SUPERINTENDENT FOR TREATMENT.



SITE ACCESS LAYOUT PLAN



TYPICAL SECTION  
TEMPORARY CONSTRUCTION ACCESS

SCALE 1 : 100 (FULL SIZE) (metres)

ROCK GRADATION TABLE

ROCK SIZE (mm)	d50					ROCK DISTRIBUTION BY %
	200mm	300mm	400mm	500mm	600mm	
400	600	750	850	900		15-25%
300	400	525	600	750		20%
200	300	400	500	600		50%
75	100	150	150	200		15-25%

FILENAME: I:\Projects\13174\13174\_01\13174\_01\_01.dwg; User: burchills; Date: 15/01/15; Plot: 13174\_01.dwg

**PROPOSED INDUSTRIAL SUBDIVISION**  
60 Tringa Street, Tweed Heads West

prepared for  
Feitelson Holdings P/L & Garbind P/L

**A1** ORIGINAL SIZE BEFORE REDUCTION

VER.	DESCRIPTION	APPR.	DATE
C	TYPICAL SECTION UPDATED		15-01-15
B	DIVERSION DRAIN ADDED TO TEMPORARY ACCESS ROAD, TEMPORARY CULVERT REVISED		14-11-14
A	ORIGINAL ISSUE		15-08-14

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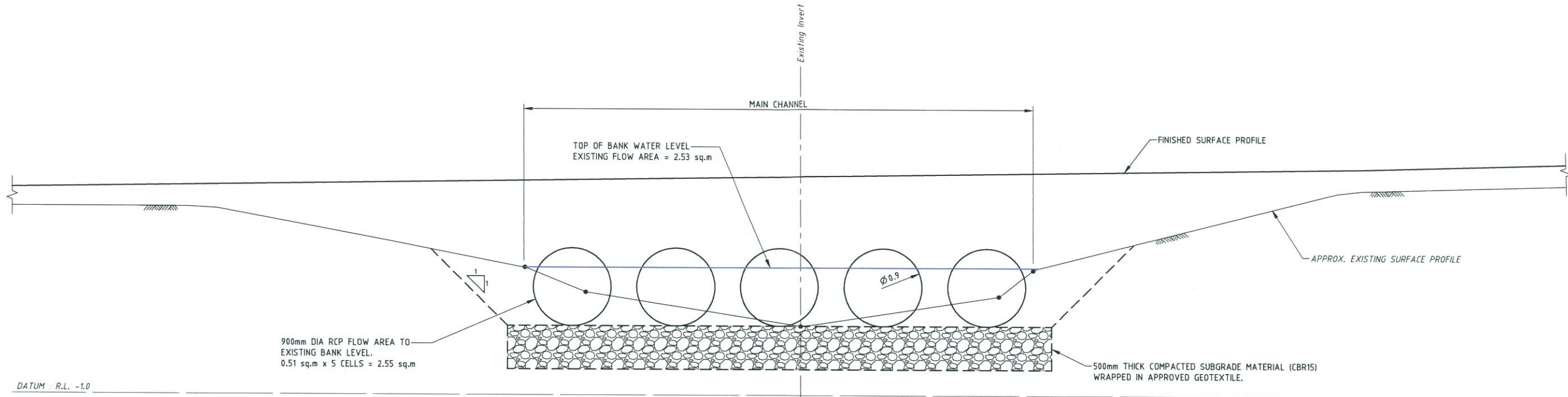
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Coote Burchills Engineering Pty Ltd  
ABN 76 166 942 365

PROJECT:  
**TRINGA STREET INDUSTRIAL SUBDIVISION BULK EARTHWORKS**

DRAWING TITLE:  
**TEMPORARY CONSTRUCTION ACCESS LAYOUT PLAN**

DEVEL. APPLIC. No.:	DATE:	15-01-15
PROJECT LEADER: LUCAS FAULKNER	DESIGNER: ADAM COOPER	
DRAFTSPERSON: GABRIEL PUMNUT	CHECKED:	
APPROVED FOR AND ON BEHALF OF BURCHILLS ENGINEERING SOLUTIONS ABN 76 166 942 365		
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SCALE:	DATUM: AHD	FULL SIZE: A1
PROJECT No.: GC130114-01	DRAWING No.: C300	VERSION: C



**CULVERT CROSS SECTION**  
**(5 x 900mm DIA RCP'S)**



**TWEED SHIRE COUNCIL**  
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**Construction Certificate**

No. \_\_\_\_\_  
 DATE ISSUED 22/11/2017  
 FILE No. 11 Feb 2015  
 CONSENT No. 596/0549  
 FOR GENERAL MANAGER \_\_\_\_\_

FILENAME: \\Project\131213\GC310 - Tringa Street - Submission - I:\M\N\131213 - Bulk Earthworks\Drawings\GC310 - 01 - C310 - B.dwg PLOTTED: 15 Jan 2015

**PROPOSED INDUSTRIAL SUBDIVISION**  
 60 Tringa Street, Tweed Heads West  
 prepared for  
 Feitelson Holdings P/L & Garbind P/L

VER.	DESCRIPTION	APPR.	DATE
B	TITLEBLOCK UPDATED		15-01-15
A	ORIGINAL ISSUE		14-11-14

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 ABN 76 166 942 365

PROJECT:  
**TRINGA STREET INDUSTRIAL SUBDIVISION**  
**BULK EARTHWORKS**

DRAWING TITLE:  
**PROPOSED CULVERT CROSSING**

DEVEL. APPLIC. No. :		DATE: 15-01-15
PROJECT LEADER: LUCAS FAULKNER	DESIGNER: ADAM COOPER	
DRAFTSPERSON: ADAM COOPER	CHECKED:	
APPROVED FOR AND ON BEHALF OF BIRCHILLS ENGINEERING SOLUTIONS ABN 76 166 942 365		
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SCALE:	DATUM: AHD	FULL SIZE: A1
PROJECT No.: GC130114-01	DRAWING No.: C310	VERSION: B

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