



Enquiries: Erin Greaves
Our Reference: ED.IN.1
Date: 5 May 2017

Dr Tom Hatton
Chairman
Environmental Protection Authority
Level 8, The Atrium
168 St Georges Terrace
PERTH WA 6004

Dear Dr Hatton

Re : XANADU-1 CONVENTIONAL ONSHORE OIL WELL

Norwest Energy is currently preparing to drill the Xanadu-1 well on a coastal location to the south of the township of Dongara.

Norwest has been conducting exploration activity in the Dongara region for many years, and is a respected operator in our region, well known for using local people and services whenever possible, and for conducting diligent and effective rehabilitation programs.

Norwest has in recent years drilled two wells and conducted an onshore seismic program within the Shire of Irwin, and these have been without incident. Local companies have provided people and services to support these projects, and the company has always kept my office, the local community and relevant stakeholders well informed on all project matters. The Shire of Irwin team is currently assisting Norwest with the various approval processes required to complete this activity.

I have met with CEO Shelley Robertson on numerous occasions, and have been effectively consulted with regard to this program. On this basis I am happy to endorse Norwest Energy as an operator, and give my support to them in implementing a successful program, which would benefit the Shire of Irwin residents now and in the future.

Yours sincerely

Darren Simmons
Chief Executive Officer



Enquiries: Clair Morrison
Our Reference: A7237 / P786
Date: 5 May 2017

Mark Jenkins
NORWEST ENERGY NL
LEVEL 2, 6 THELMA STREET
WEST PERTH WA 6005

Dear Mark,

**RE: DEVELOPMENT APPROVAL FOR TEMPORARY PETROLEUM DEVELOPMENT AT
LOT 11982 INDIAN OCEAN DRIVE ARROWSMITH 6525**

I refer to the above matter and advise that under delegated authority the Shire of Irwin has granted approval as per the attached Determination on Application for Development Approval. Please read all of the Conditions and Advice Notes. The conditions must be complied with.

Other separate approvals to undertake certain activities may be required from other Government Agencies under separate legislation. This is your responsibility.

Should you have any queries or require any further information please do not hesitate to contact me on 9927 0000 or plano officer@irwin.wa.gov.au.

Yours sincerely

Doug Fotheringham
Manager Regulatory Services

DETERMINATION ON APPLICATION FOR DEVELOPMENT APPROVAL
Planning & Development Act 2005
Shire of Irwin
LOCAL PLANNING SCHEME NO. 5

Applicant:	NORWEST ENERGY NL
Property Address:	LOT 11982 INDIAN OCEAN DRIVE ARROWSMITH 6525
Received on:	14/03/2017
Description of proposed development:	TEMPORARY PETROLEUM DEVELOPMENT

The application for development approval is **Granted** subject to the following conditions and advice notes:

Conditions

1. The approved development shall be in accordance with the attached stamped plans dated 05 May 2017.
2. This approval expires on 31 July 2017, after which time the development shall be removed from the Lot 11982 Indian Ocean Drive, Arrowsmith, unless the Shire of Irwin agrees in writing to approve an extension of time.
3. Prior to the construction of the approved development, the subject land is to be surveyed and pegged on the ground and no access or clearing is permitted outside the lot boundaries.
4. Following termination of the approved development, the subject land shall be rehabilitated to the satisfaction of the Shire of Irwin.
5. No waste or effluent is to be permanently disposed of on-site. Waste must be carried by a licensed contractor to a licensed facility.
6. The development must be connected to a potable water supply for the duration of the approval (see Advice Note 4).
7. Prior to the commencement of any site or clearing works the applicant shall prepare and submit a Temporary Access Management Plan to the satisfaction of Main Roads WA (see Advice Note 5).
8. Satisfactory arrangements be made with Main Roads WA for the temporary access point, as shown on the approved site plan, onto Indian Ocean Drive to be designed and constructed in accordance with Main Roads standards and processes. These arrangements can commence once the Temporary Access Management Plan is accepted by Main Roads WA.
9. The erection of appropriate signage for a mine access at locations on Indian Ocean Drive, to the approval of Main Roads WA and at the applicants cost.
10. The applicant shall notify Main Roads WA in writing once the deconstruction phase of the drilling rig is completed. From the date of notification the temporary access point, as shown on the approved site plan, onto Indian Ocean Drive shall be made redundant, and the verge and its vegetation reinstated to match the existing at the applicants cost.
11. All stormwater and drainage runoff from all roofed and impervious areas is to be retained and disposed of on site to the satisfaction of the Shire of Irwin.

Advice Notes

1. Prior to commencement of the development, an application for the effluent disposal system to the satisfaction of the Department of Health must be submitted to the Shire of Irwin Regulatory Services.
2. Prior to clearing of vegetation, the developer should seek advice from the Department of Environmental Regulation.
3. Wastewater irrigation areas must be a minimum of 30m from bores used for human consumption. Any fencing must be in accordance with the Shire of Irwin's Local Law for Fencing.
4. The potable water supply must be of a quality as specified under the *Australian Drinking Water Quality Guidelines 2004*.
5. In relation to Condition 7, the Temporary Access Management Plan shall:
 - a. Detail stormwater, environmental and dust management procedures;

- b. Construction/deconstruction operating hours and dates;
 - c. Include details on the selected transportation route and transportation of materials to the project site;
 - d. Incorporate a Traffic Impact Statement or Assessment (as appropriate) in accordance with the WAPC Transport Impact Assessment Guidelines (August 2016) to ensure that impacts at intersections and the road network are addressed;
 - e. Set out in detail the management commitments applicable to traffic relevant to all activities and processes;
 - f. Identify any necessary road upgrades and temporary property access construction and removal;
 - g. The necessary written notices/permits required from Main Roads WA Heavy Vehicle Services for overweight and oversized vehicles associated with the construction/deconstruction phase are addressed.
6. The applicant must obtain approval from Main Roads before any works are undertaken within the Indian Ocean road reserve. The applicant seeking access to the Main Roads network is required to submit an Application as outlined in the Application Kit and Guidelines for Complex Work. Application kits can be found on the Main Roads website > "Our Roads" > "Conducting Works on Roads" > Application Kit and Guidelines for Organisations Seeking to Undertake Works Within Road Reserve – Complex Works.
 7. Main Roads are planning to undertake road widening works between 253-258 SLK on Indian Ocean Drive which could start as early as November 2017.
 8. The Heavy Vehicle access process is separate to the Development Application process. If the routes relevant to the Development Application are not currently approved for the proposed heavy vehicle combinations, approval from Main Roads Heavy Vehicle Services must be obtained prior to the proposed heavy vehicles combinations using the routes.
 9. A separate Department of Health approval is required for any on-site (ATU) waste water treatment process. The necessary requirements may be referenced and downloaded from:
http://ww2.health.wa.gov.au/Articles/U_Z/Water-legislations-and-guidelines.
 10. A scoping tool is available that highlights public health issues that should be addressed and incorporated into the proposed construction camp. The scoping tool is available for download at:
<http://www.public.health.wa.gov.au/cproot/3937/2/Mine%20sites%20and%20exploration%20camps%20JUNE%202011.pdf>.
 11. It is the responsibility of the applicant to ensure that building setbacks correspond with the legal description of the land. The Shire of Irwin will take no responsibility for incorrectly located buildings.

- Note 1: If the development the subject of this approval is not substantially commenced within a period of 2 years, or such other period as specified in the approval after the date of the determination, the approval will lapse and be of no further effect.
- Note 2: Where an approval has so lapsed, no development shall be carried out without the further approval of the local government having first been sought and obtained.
- Note 3: If an applicant is aggrieved by this determination there is a right of review by the State Administrative Tribunal in accordance with the Planning and Development Act 2005 Part 14. An application must be made within 28 days of the determination.

Signed:



Dated:

05/05/17

Doug Fotheringham
Manager Regulatory Services
for and on behalf of the Shire of Irwin.

Location Plan

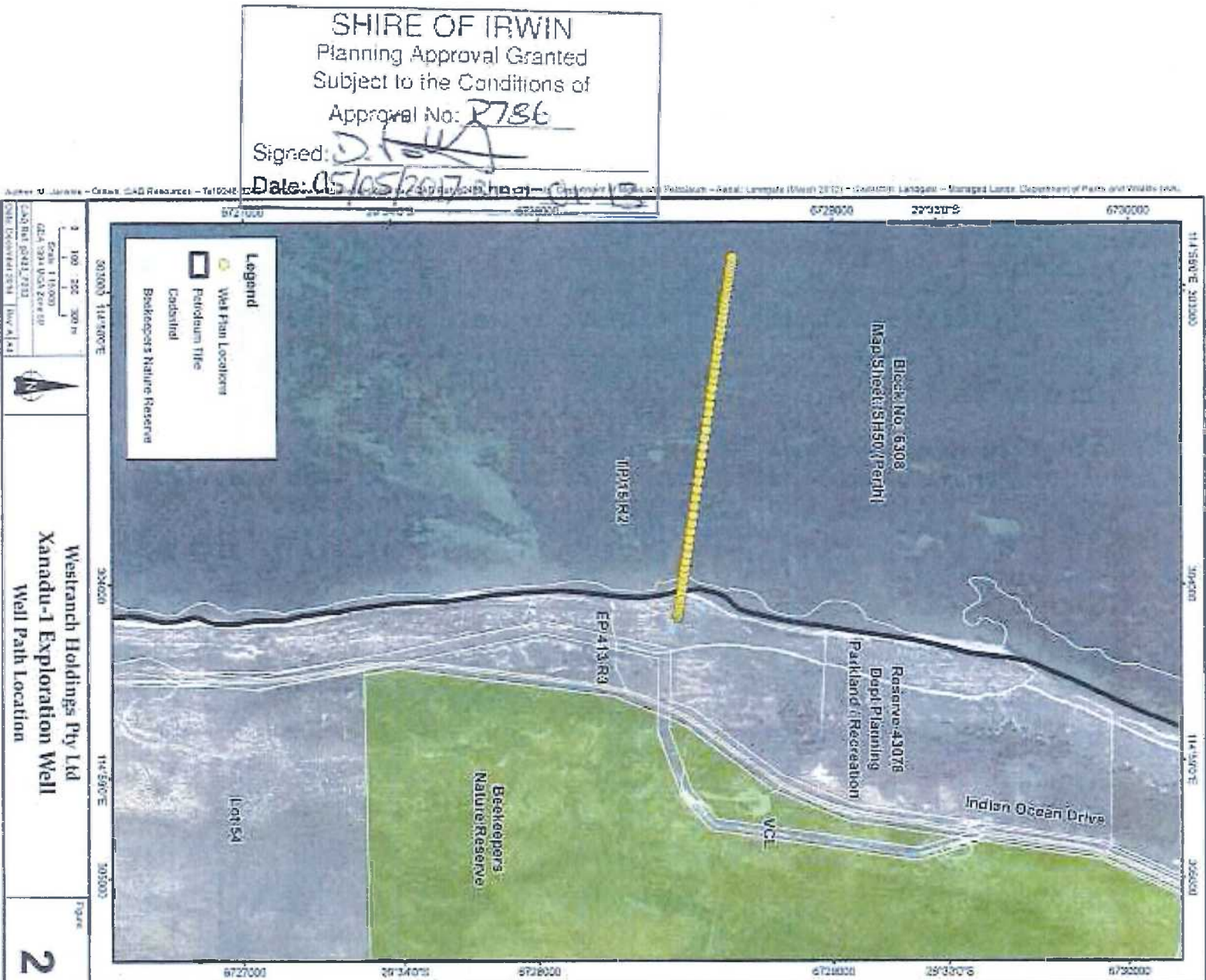


Figure 2: Area Map and Well Path



Site Plan

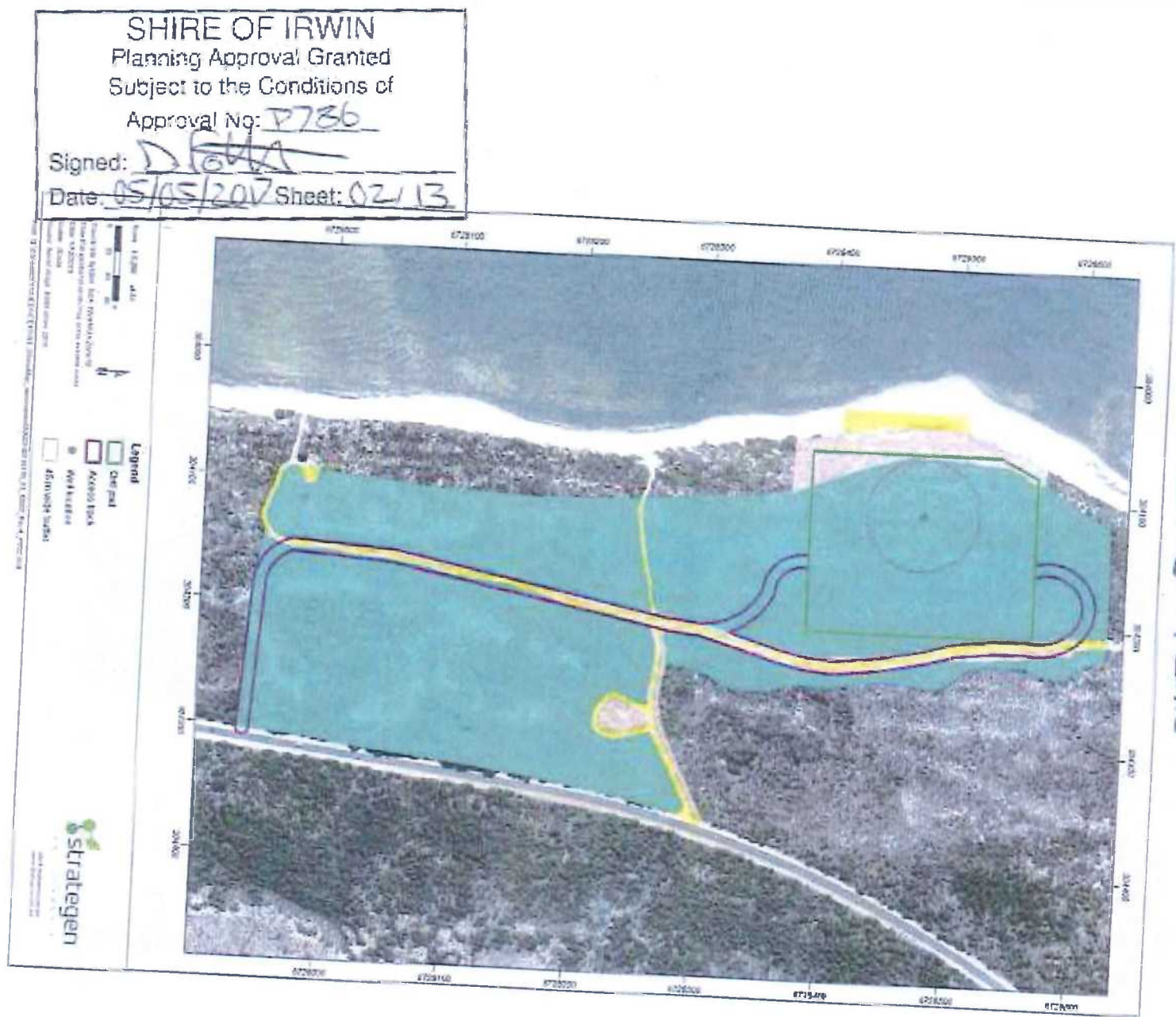


Figure 3: Project Area



SHINE OF IRWIN
Planning Approval Granted
Subject to the Conditions of
Approval No: P786

Signed: *D. T. [Signature]*

Date: 05/05/2017 Sheet: 03/12

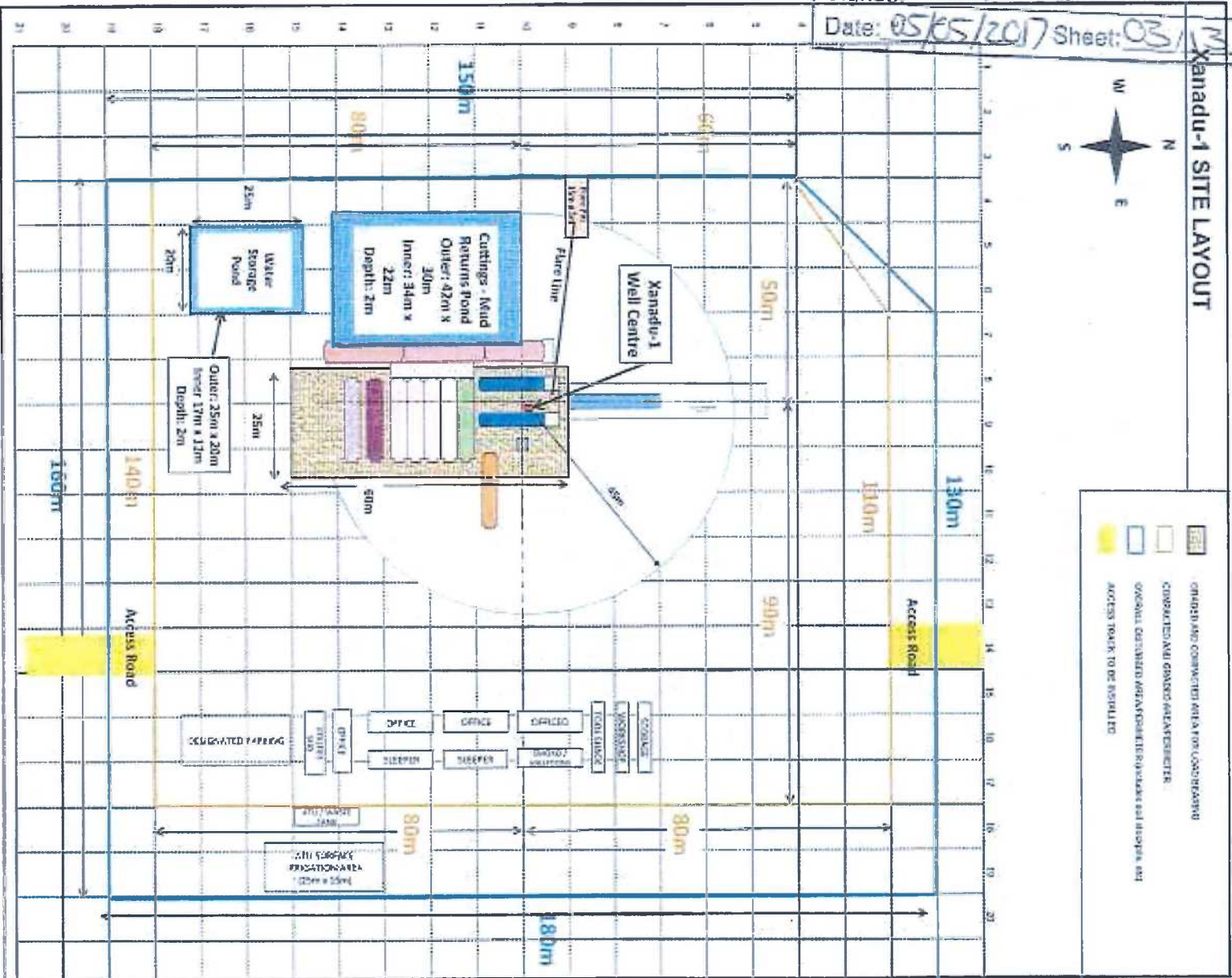


Figure 4: Site Layout

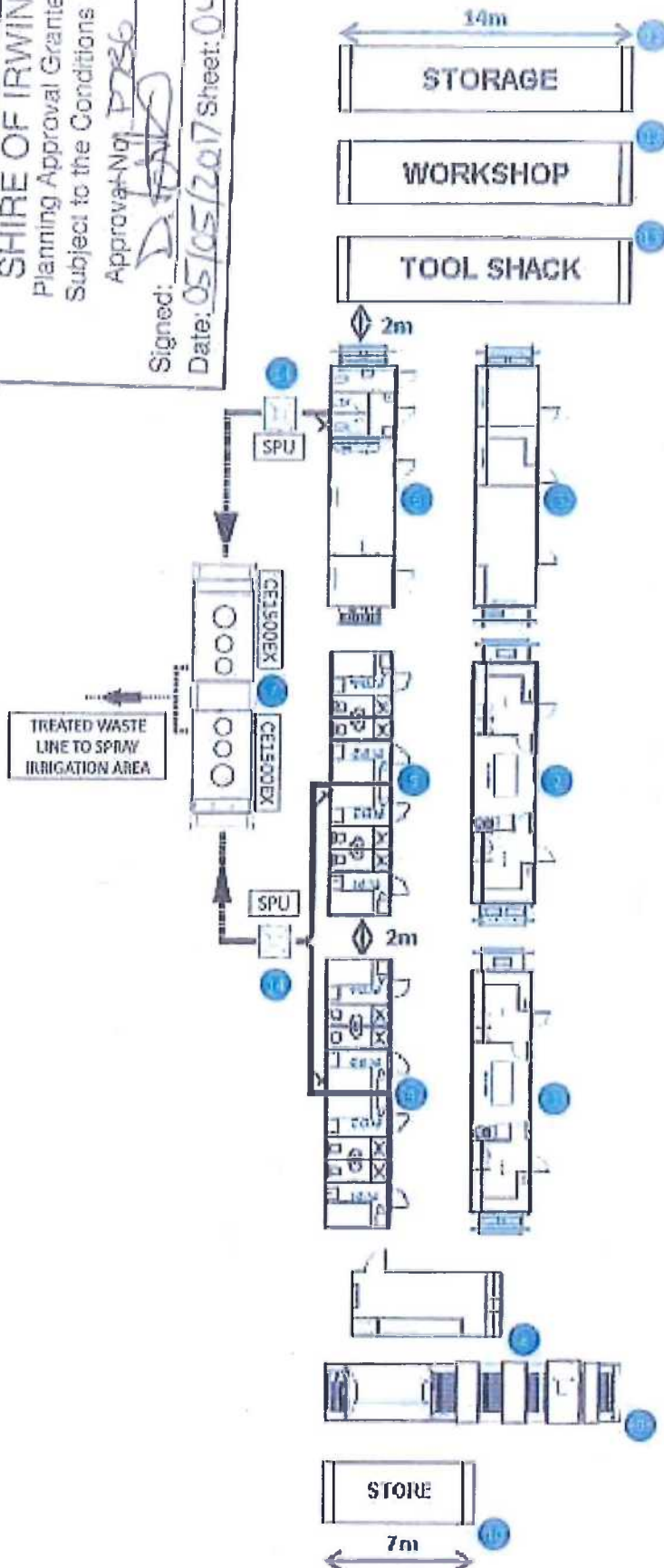
SHIRE OF IRWIN
Planning Approval Granted
Subject to the Conditions of
Approval No. 1736

Signed: *[Signature]*

Date: 05/05/2017 Sheet: 04/13



Generic Rig Site Camp Layout - Waste Treatment Management



Legend:

- 1 Principal Site Office
- 2 Company Man / Rig Manager Office
- 3 HSE / Elec/Mech Office
- 4 Living Quarters
- 5 Living Quarters
- 6 Ablution / Smoko / Change Room
- 7 Waste Treatment Unit - CE1500EX
- 8 Geo and Mud Doctor Office
- 9 Utilities - Power / Water / Diesel
- 10 Principal Stores Container 20'
- 11 Storage Container
- 12 Workshop Container
- 13 Tool Shack Container
- 14 Sump Pump Unit

EQUIPMENT LIST

1. 2040x820 SOLID CORE EXTERNAL DOOR
2. 2040x720 INTERNAL HOLLOW CORE DOOR
3. 1050x900 HORIZ SLIDING WINDOW W/- 6.38 LHM GLASS & CURTIN
4. 350x750 FIXED VENTED WINDOW W/- 5mm GLASS
5. KING SIZE SINGLES ENSEMBLE BED
6. WRITING DESK C/W FRIDGE SURROUND
7. TIMBER WARDROBE C/W 3 HALF SHELVES, 1 FULL WIDTH SHELF & HANGING SPACE
8. STANDARD PAX C/W DUAL FLUSH CISTERN & PAPER HOLDER
9. 900x900 FIBREGLASS SHOWER CURTICLE C/W CURTIN & RAIL
10. WALL MOUNTED PORCELAIN HAND BASIN C/W SHELF & MIRROR SHAVING CABINET OVER
11. 600 LONG TOWEL RAIL
12. 140 LITRE BAR FRIDGE
13. SINGLE DRAWER BEDSIDE UNIT C/W OPEN SHELF UNDER
14. SPLIT SYSTEM AIR CONDITIONER
15. 160 LITRE ELECTRIC HOT WATER SYSTEM

NOTE

* DENOTES LOCATION OF 10mm DIA STEEL TIE DOWN ROD

SHIRE OF IRWIN
Planning Approval Granted
Subject to the Conditions of

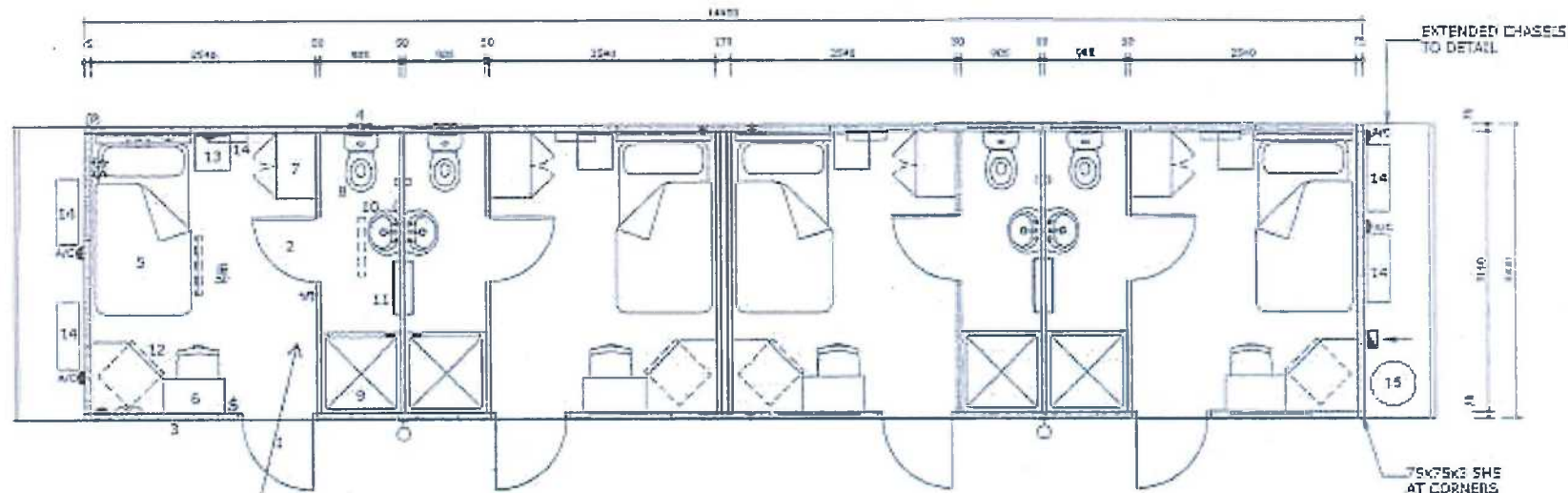
Approval No. **P786**

Signed: **D. [Signature]**

Date: **05/05/2017** Sheet: **05/13**

ELECTRICAL LEGEND

○	SINGLE GPO AT 125A A.F.L.
○	DOUBLE GPO AT 125A A.F.L.
○	SINGLE GPO AT 300A A.F.L.
○	DOUBLE GPO AT 300A A.F.L.
○	CIRCUIT BREAKER (POINT OF ENTRY)
○	LIGHT SWITCH SINGLE
○	LIGHT SWITCH DOUBLE
○	SINGLE FLUORESCENT TWO LIGHT
○	SINGLE FLUORESCENT SINGLE
○	DOUBLE FLUORESCENT DOUBLE
○	EXTERNAL LIGHT
○	ACCORD. ISOLATOR SWITCH
○	WALL MTD EXHAUST FAN
○	SMOKE DETECTOR
○	PICTOGRAMS WATER



FLOOR PLAN

LIGHTING & POWER LAYOUT TYPICAL FOR ALL SFD ROOMS.
NOTE: THAT SMOKE ALARMS TO THE BEDROOMS IN EACH MODULE ARE TO BE INTERCONNECTED

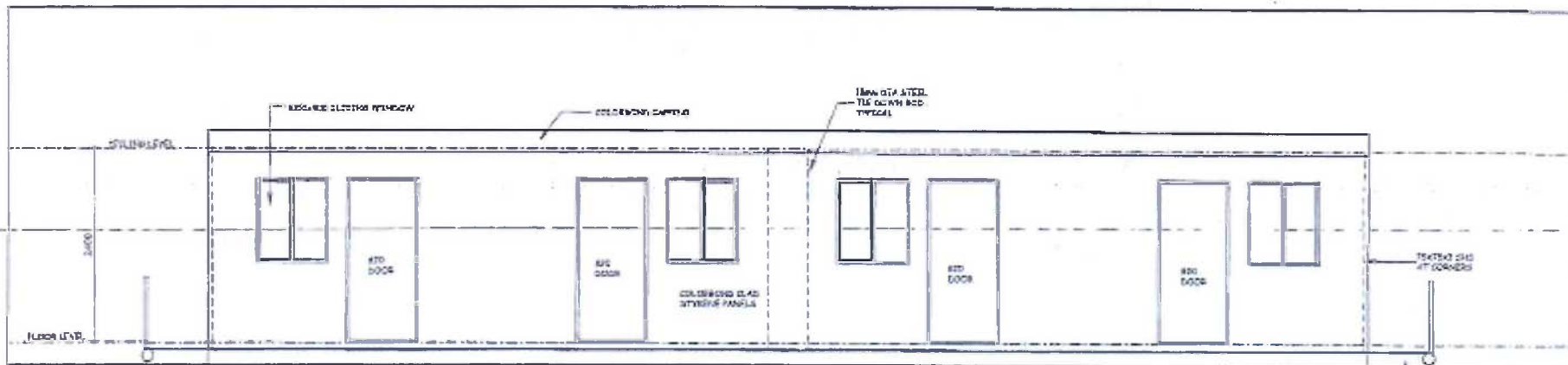


A03

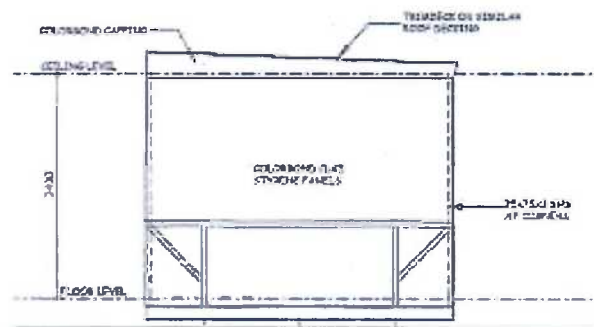
TITLE:
**4 MAN STAFF QUARTERS
WATHEROO ROAD WEST
BADGINGARRA**

DATE:	JUNE 2013
SCALE:	1:20
DRAWN BY:	CC
CHECKED BY:	1050C
SHEET No.:	1

A01



FRONT ELEVATION



SIDE ELEVATION

SHIRE OF IRWIN
Planning Approval Granted
Subject to the Conditions of
Approval No: 3786

Signed: D. [Signature]

Date: 05/05/2017 Sheet: 06/13



A04

TITLE:
**4 MAN STAFF QUARTERS
WATHEROO ROAD WEST
BADGINGARRA**

DATE:	JUNE 2011
SCALE:	1:50
DRAWN BY:	DP
DWG. No.:	10000
SHEET No.:	3

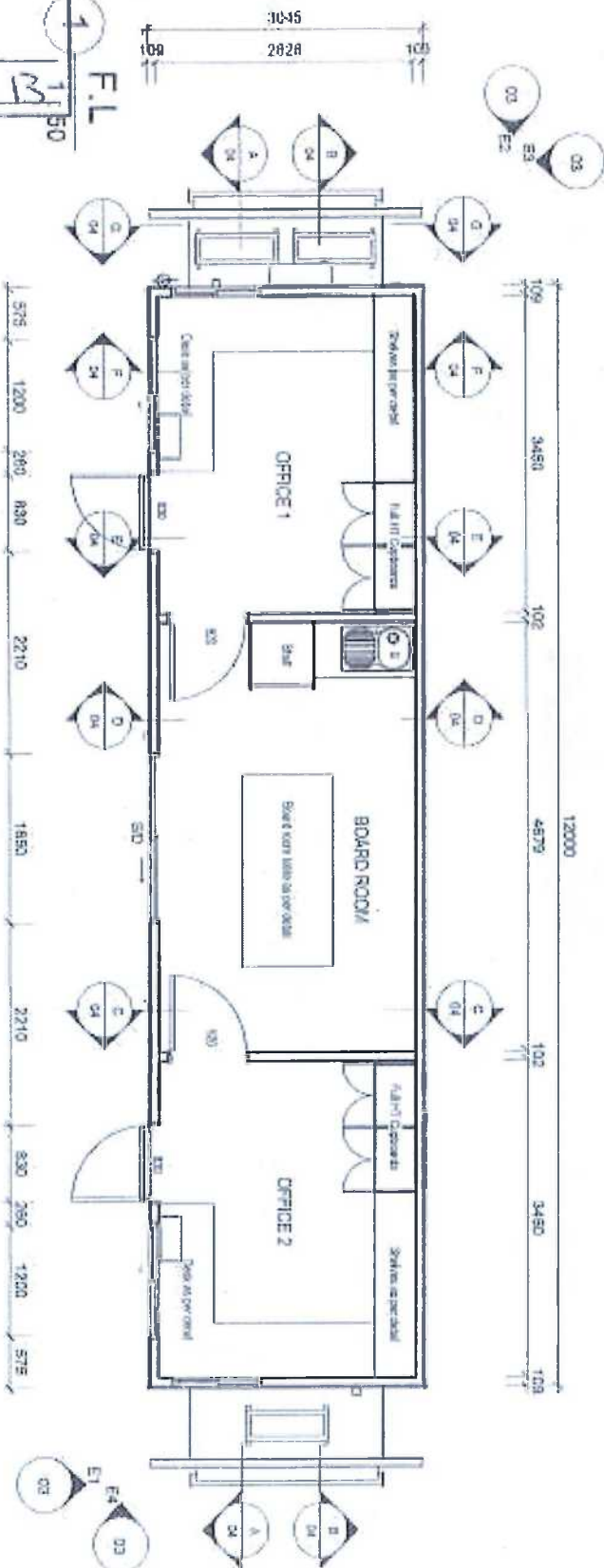
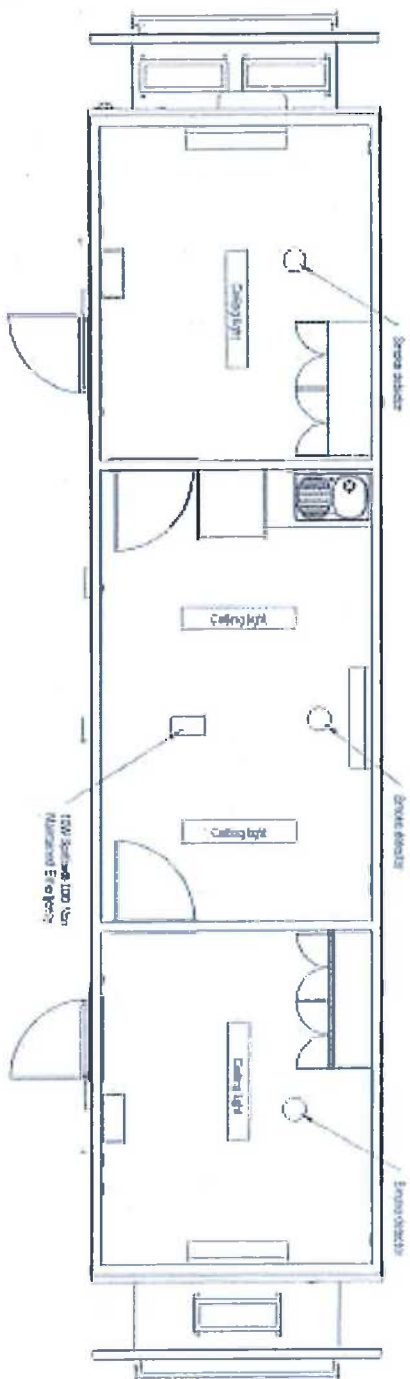
SHIRE OF IRWIN
Planning Approval Granted
Subject to the Conditions of
Approval No. P786

Signed: [Signature]

Date: 05/05/2017 Sheet: 07/13

2
150

1
50
F.L.



A06

ENERDRILL
P1 SITE PLAN

MODULE - 001

FLOOR & CEILING PLANS

CONSTRUCTION

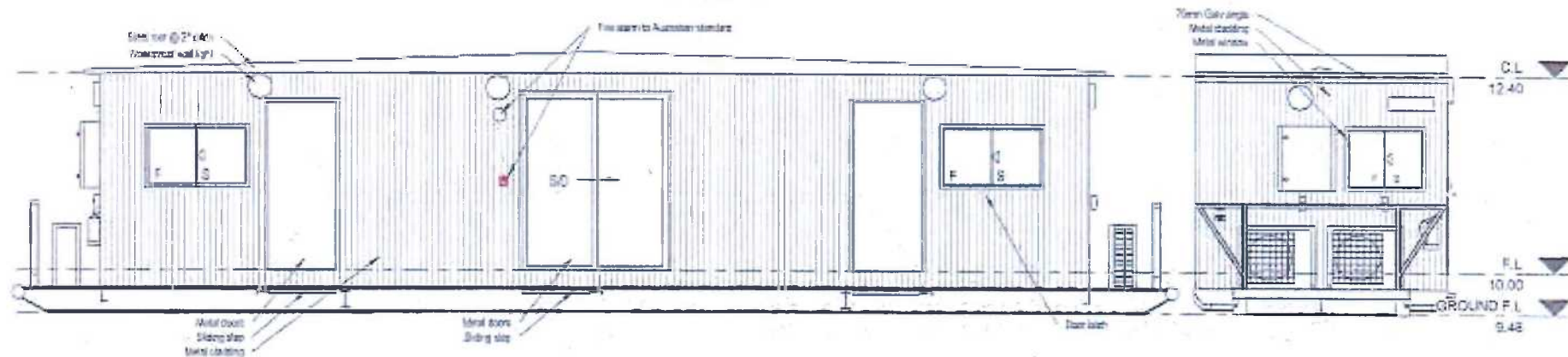
PROJECT NO. 786

SCALE 1:50

T000518

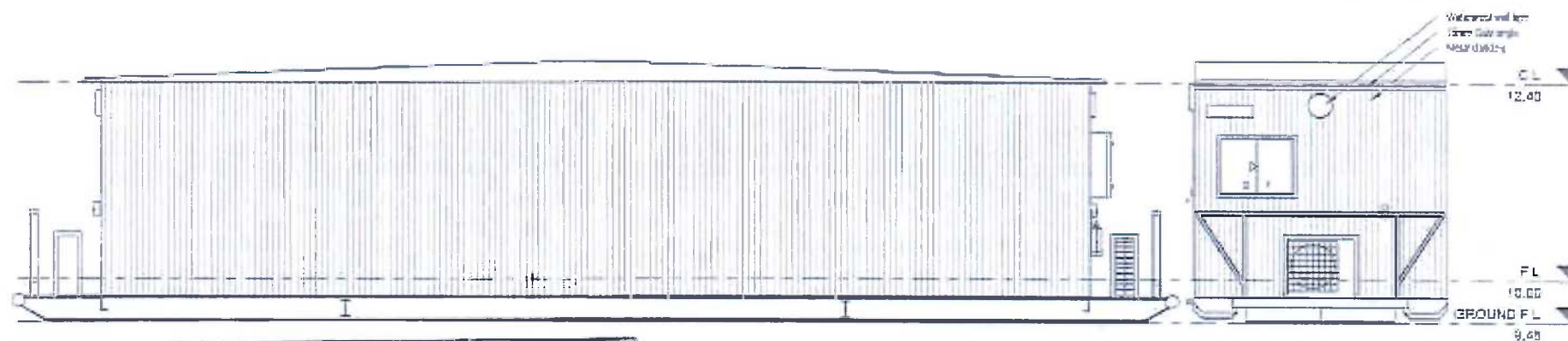
1/2

15/05/2017 10:42 AM



E1 ELEVATION 1
1 : 50

E2 ELEVATION 2
1 : 50



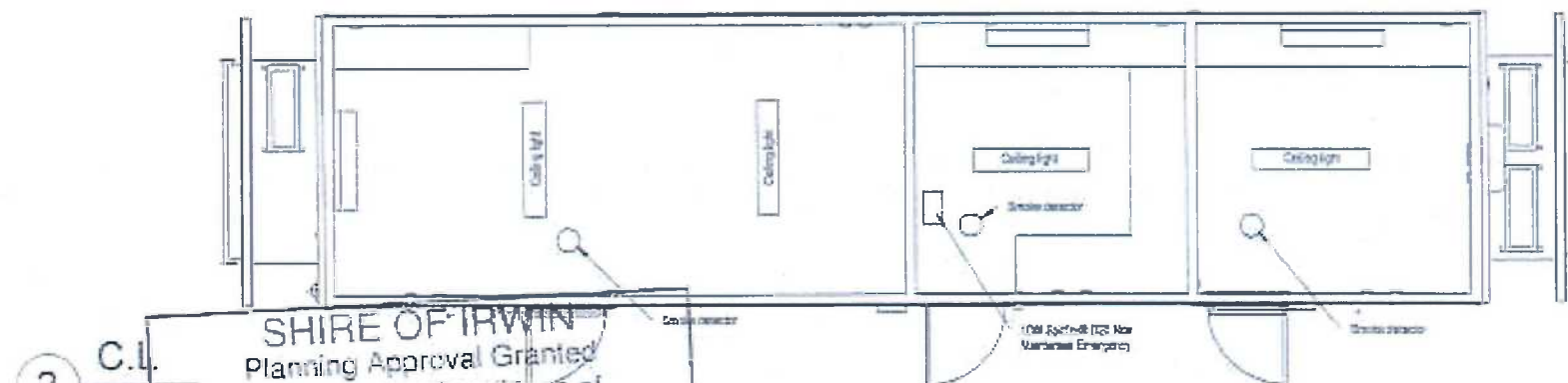
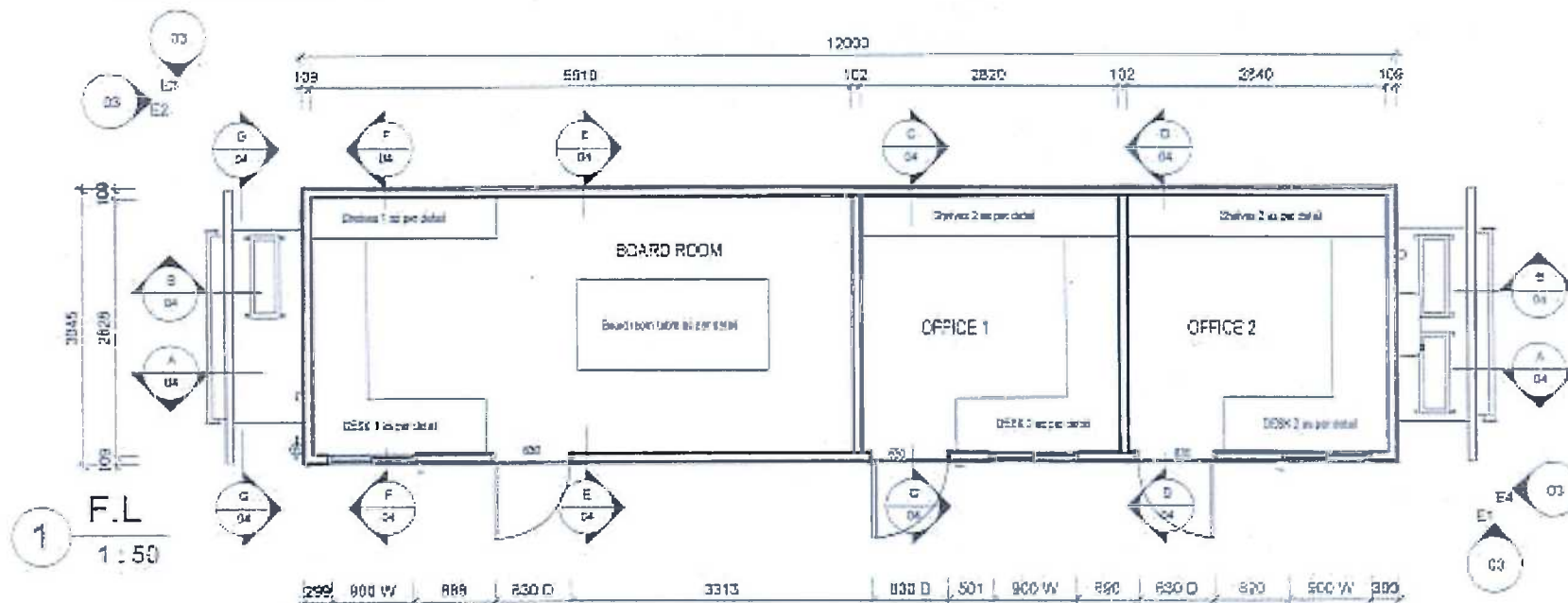
E3 SHIRE OF IRWIN
Planning Approval Granted
1 : 50 Subject to the Conditions of
Approval No: P786
Signed: D. F. F. F.
Date: 05/05/2017 Sheet: 08/13

E4 ELEVATION 4
1 : 50

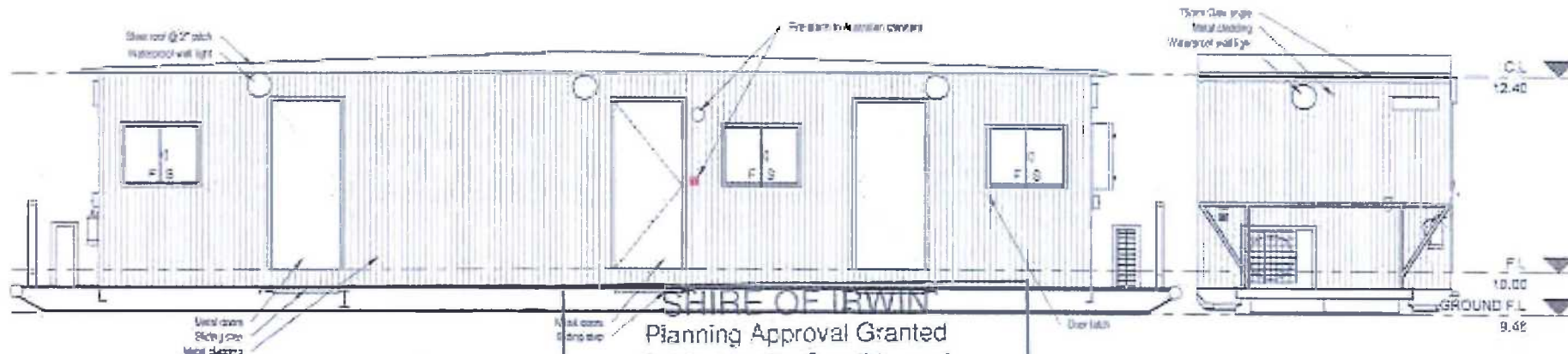


A07

ENERDRILL RVS 2170 RVS 2170		MODULE - 001	
		ELEVATIONS	
		INSTRUCTION	
		PROJECT NO	786
		SCALE	1 : 50
		TOO0051B	2017-05-01 A3



A14	ENERDRILL FULL RATE BUILDING		MODULE - 003	
			FLOOR & CEILING PLANS	
			CONTINUATION	
			PROJECT NO	785
			SCALE	1/8" = 1'-0"
	TDC03538		SHEET NO	A3

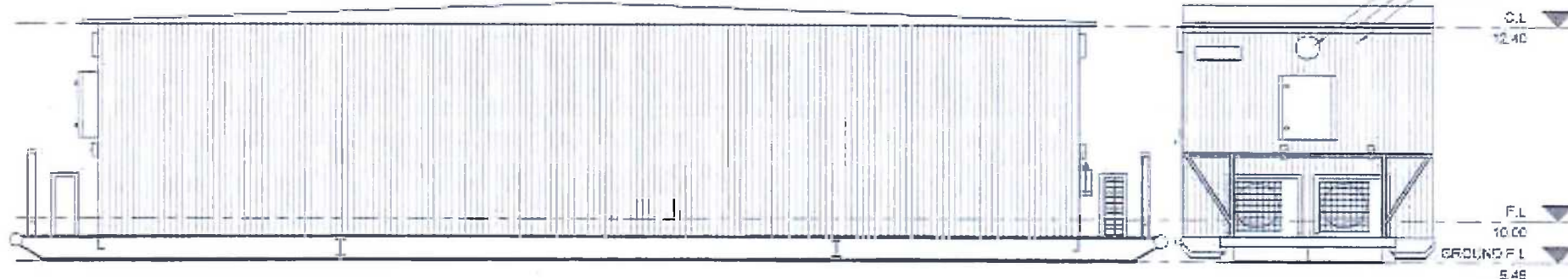


E1 **ELEVATION 1**
1 : 50

E2 **ELEVATION 2**
1 : 50

SHIRE OF IRWIN
Planning Approval Granted
Subject to the Conditions of
Approval No: P786

Signed: D. GA
Date: 05/05/2017 Sheet: 10/13



E3 **ELEVATION 3**
1 : 50

E4 **ELEVATION 4**
1 : 50

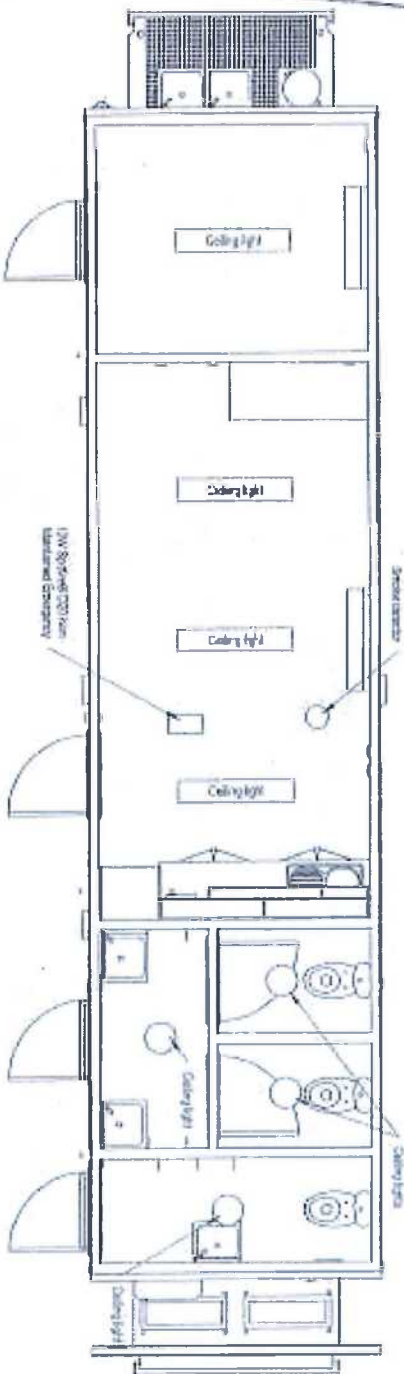
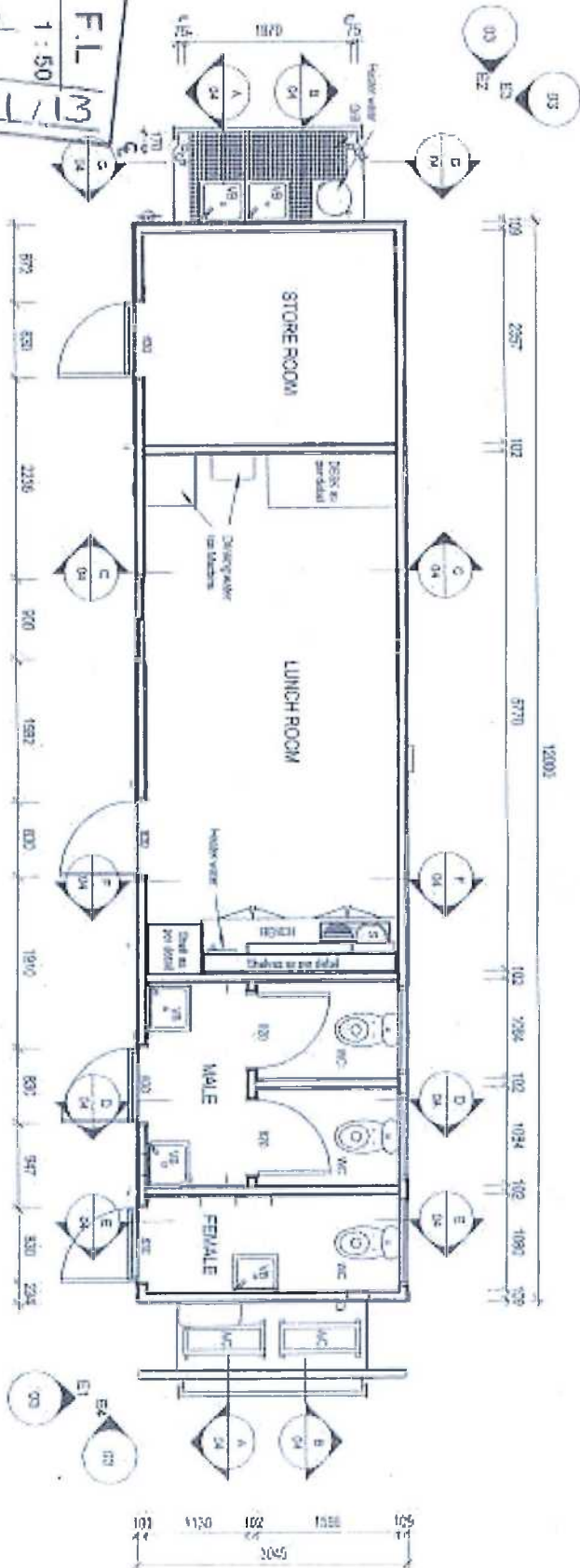


A15

ENERDRILL RIS SITE BUILDINGS	MODULE - 003	
 Transform	ELEVATIONS	
	CONSTRUCTION	
	PROJECT REF	786
	SCALE	1 : 50
TD003518 11-SHEET SITE 43		(MARCH 2017) 11-SHEET 43

SHIRE OF IRWIN
 Planning Approval Granted
 Subject to the Conditions of
 Approval No: **P786**
 Signed: *[Signature]*
 Date: **05/05/2017** Sheet: **11 / 13**

2
 1 : 50
 C.L.



A23



ENERGILL
 MODULAR BUILDINGS

FLOOR & CEILING PLANS

MODULE - 002

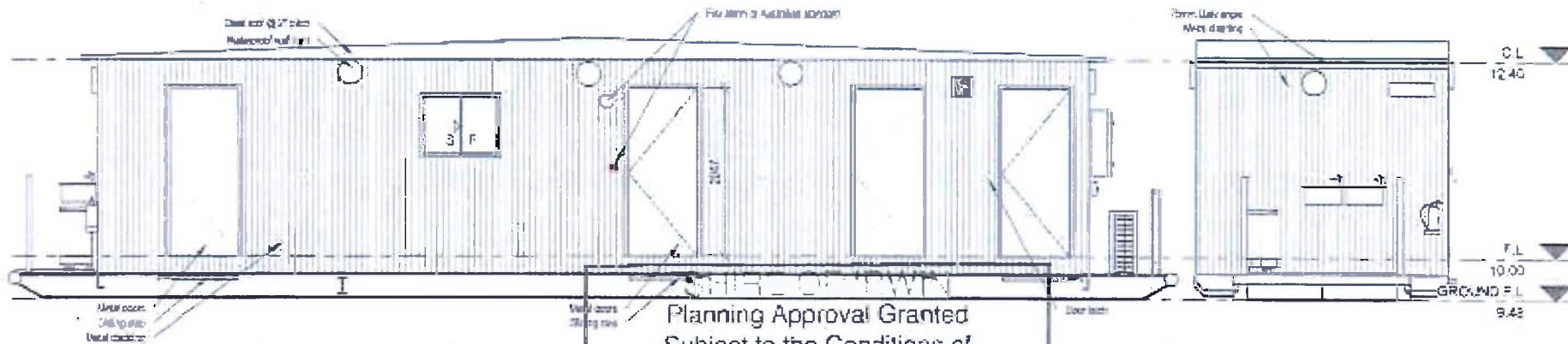
CONSTRUCTION

PROJECT NO: 715

SCALE: 1:50

DATE: 05/05/2017

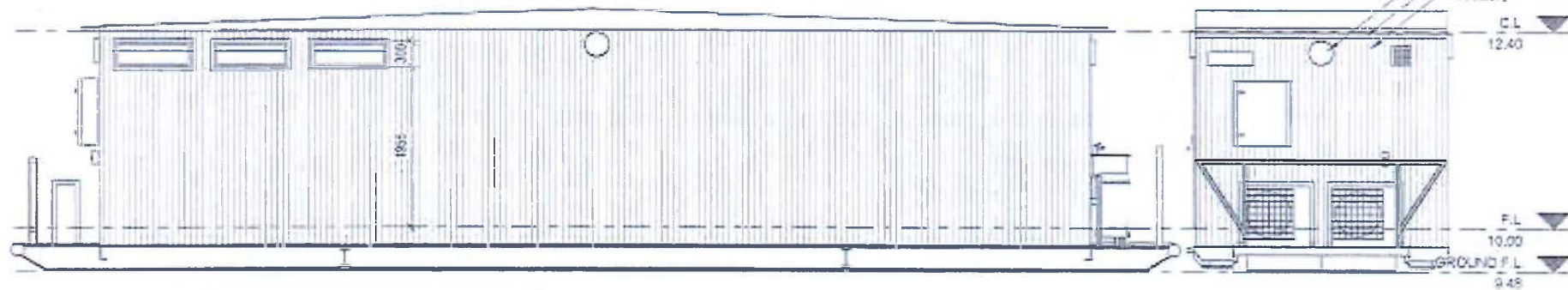
15/05/2017 11:30 AM



E1 ELEVATION 1
1 : 50

E2 ELEVATION 2
1 : 50

Planning Approval Granted
Subject to the Conditions of
Approval No. P786
Signed: [Signature]
Date: 05/05/2017 Sheet: 12/13




E3 ELEVATION 3
1 : 50

E4 ELEVATION 4
1 : 50

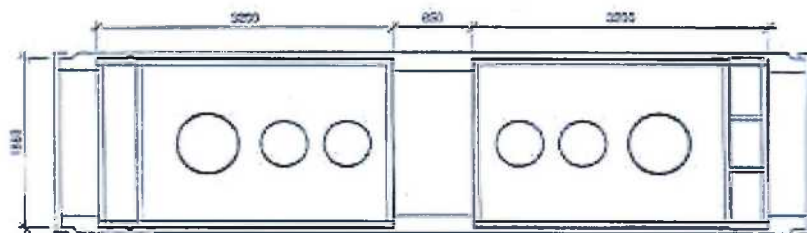


A24

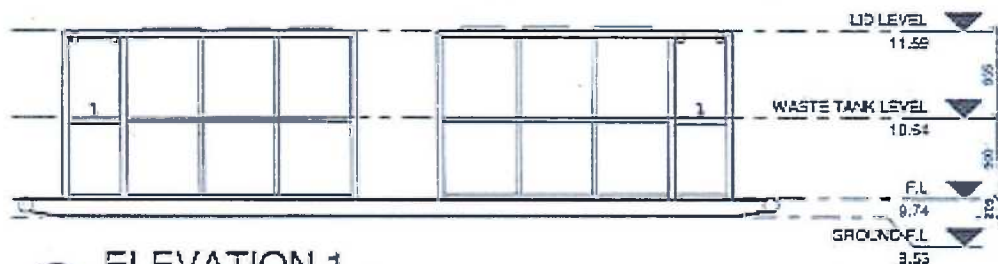
ENERGILL PRE SITE BUILDINGS		MODULE - 002	
 Transform		ELEVATIONS	
		CONSTRUCTION	
		PROJECT ID	785
		SCALE	1:50
TDC03525		SHEET 002	43

15/04/2014 14:29

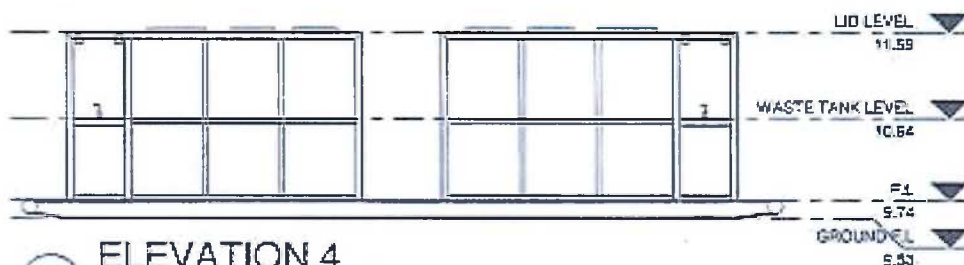
22
E4
22



1
GROUND F.L.
1 : 50



E1
ELEVATION 1
1 : 50

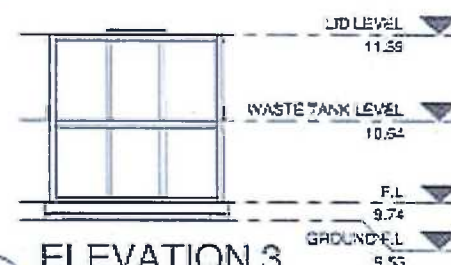


E4
ELEVATION 4
1 : 50

E3
02
02



E2
ELEVATION 2
1 : 50



E3
ELEVATION 3
1 : 50

SHIRE OF IRWIN
Planning Approval Granted
Subject to the Conditions of
Approval No: P786
Signed: D. [Signature]
Date: 05/05/2017 Sheet: 13/13

Bonnie Rock Transport Pty Ltd 1250 Abernethy Road HATFIELD WA 6008		MODULE - DOUBLE WASTE UNIT	
 Transform <small>Engineering and Construction Solutions</small>		FLOOR PLAN & ELEVATIONS	
DRAWN	SPG	CONSTRUCTION	SHEET
CHECKED	MATHEW	PROJECT N°	523
APPROVED	ROGER	SCALE	1 : 50
DATE	21/05/2017 12:51:57 PM	TB 00141 A	SHEET N° 02