
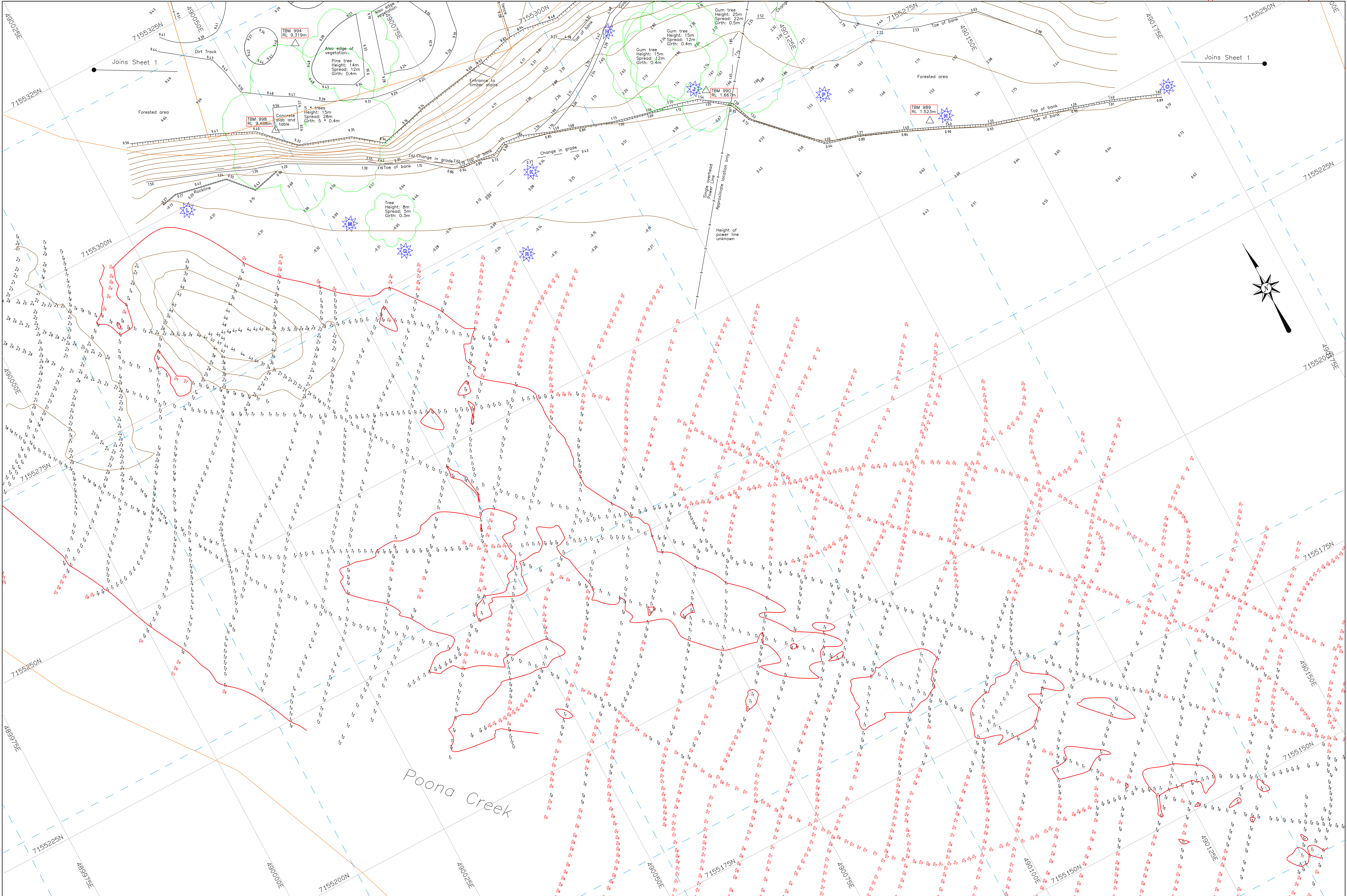


Vessel	Boab Sports Rider	SOUNDINGS (m)
Echo Sounder	Ceescopce 100	25 below datum
Heave/mermeter	Novatel 628 RTK-GNSS Rover	07 above datum
Horizontal Positioning	Novatel 628 RTK-GNSS Rover Leica GS10 RTK-GNSS base	LEVELS (m)
Data Collection/Processing	Ginsy v8.18.0 Terramend 10.61J	0.99 above datum
Tidal Reference Station	TS 059113A	1.23 below datum

Signature		 <p><b>Queensland Government</b></p> <p><i>HYDROGRAPHIC SERVICES</i></p> <p>Ph: (07) 3066 3500 Email: <a href="mailto:hydro@msq.qld.gov.au">hydro@msq.qld.gov.au</a></p>
Hydrographic Surveyor		
Surveyor	R Penington	
Checked	T Reise	


<h1 style="text-align: center;">GREAT SANDY STRAIGHTS</h1> <h2 style="text-align: center;">POONA CREEK BOAT RAMP INVESTIGATION</h2> <h3 style="text-align: center;">HYDROGRAPHIC AND LAND DETAIL SURVEY</h3> <h4 style="text-align: center;">18 JUNE 2018</h4> <p style="text-align: center;">© Copyright The State of Queensland 2018 (Transport and Main Roads)</p>	Plot File. E55074p1.PDF
	Job No. MB060092
	Plan No. <b>E550-074</b>
	SHEET 1 OF 2





**NOTES:**

- 1) Contours are computer generated to Hydrographic Standard (inclusive)
- 2) Soundings are colour coded to -1.0m and for clearance purposes
- 3) Coastline digitised from aerial photography is approximate only
- 4) Horizontal position and vertical height check conducted over PM 58852 on 01/06/2018
- 5) Cadastral boundaries have been sourced from the Digital Cadastral Data Base (DCDB) and are approximate only. They should not be used for reinstatement or set-out. For actual property boundaries consult a licensed cadastral surveyor
- 6) The AHD to LAT separation value of 1.292m was calculated using 13 days of tidal observations at Shout Point Front Lead TSN 05913A. AHD datum was established by RTK-GNSS observations from PM58841
- 7) Tidal restrictions were seen to exist at the proposed boat ramp location. This was determined by analysing 4 days of tidal observations at the site. Further tidal observations would be required to determine if a Low Water Restriction exists at the site.
- 8) The semi-diurnal tidal plane for Shout Point was obtained from the 'Queensland Tide Tables 2018'.
- 9) The tidal plane was block shifted by a value of -1.29m based on observed AHD to LAT values.

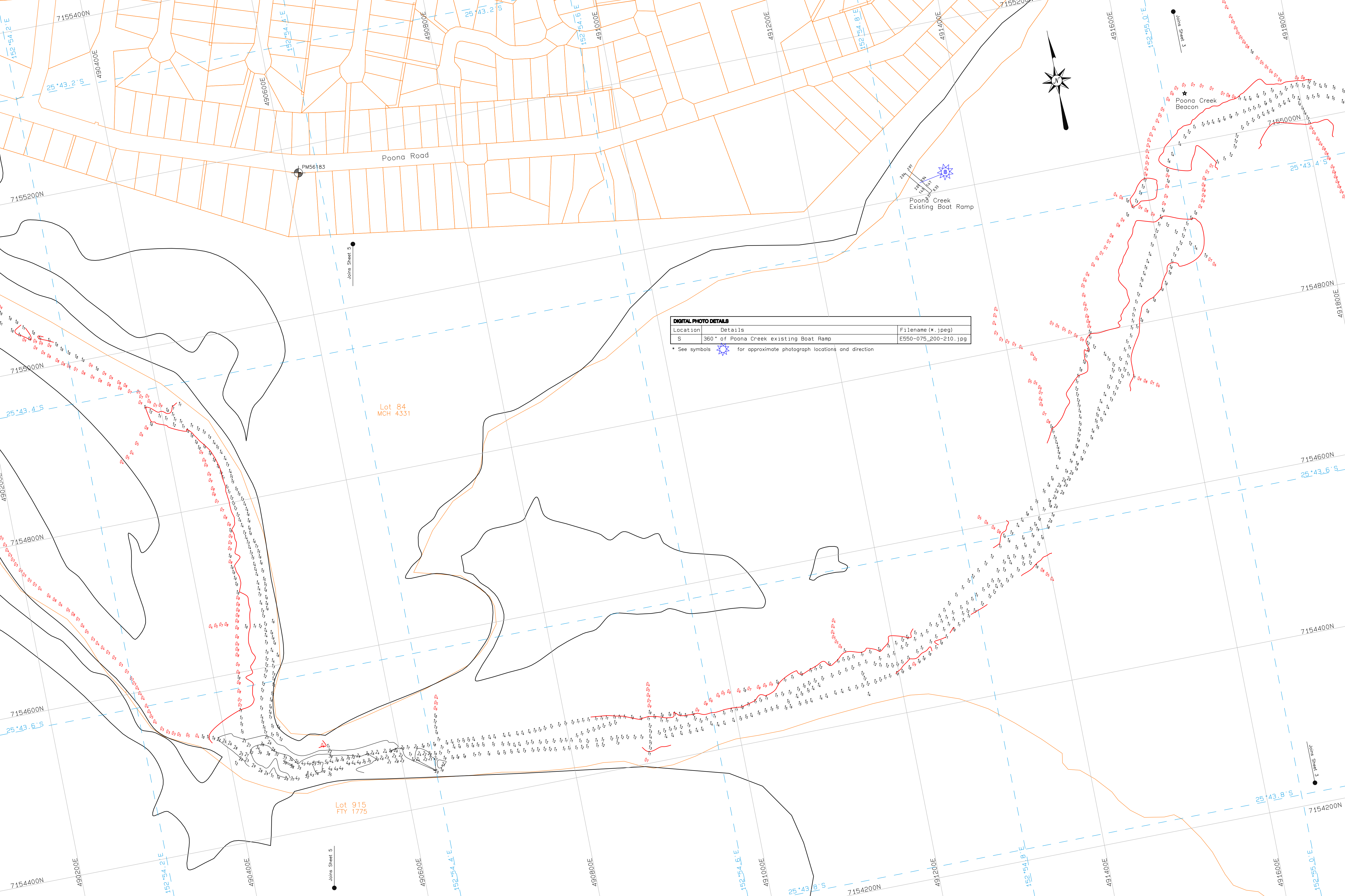
<b>Horizontal Datum</b>		<b>MGA Zone 58 (GDA84)</b>		<b>Base Station</b>		<b>Eastings</b>		<b>Northing</b>		<b>Vessel</b>	Boab Sports Rider	<b>SOUNDINGS (m)</b>	0 2.5 12.5 25		<b>SCALE 1:250 AT A1</b>		<b>Signature</b>		<b>Queensland Government</b> <b>HYDROGRAPHIC SERVICES</b> Ph: 07 3066 5500 Email: hydro@mq.qld.gov.au
<b>Vertical Datum</b>		<b>AHD based on</b>		<b>PM 58841</b>		<b>RL 9.407m</b>		<b>Echo Sounder</b>		Ceescopie 100	<b>2.5</b>	below datum	<b>CLASS</b>		<b>CLIENT</b>	<b>Surveyor</b>	<b>R Penington</b> <b>T Reize</b>		
<b>Tide Notes</b>								<b>Heave meter</b>		Novatel 628 RTK-GNSS Rover	<b>6.9</b>	above datum	<b>N/A</b>		<b>PMD</b>	<b>Checked</b>			
										<b>Horizontal Positioning</b>		Novatel 628 RTK-GNSS Rover							
										<b>Data Collection/Processing</b>		Trimble V80 RTK-GNSS base							
										<b>Tidal Reference Station</b>		TS 05913A							

**GREAT SANDY STRAIGHTS**  
**POONA CREEK BOAT RAMP INVESTIGATION**  
**HYDROGRAPHIC AND LAND DETAIL SURVEY**  
**18 JUNE 2018**

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Plot File: E550074p2.PDF  
Job No.: MB060092  
Plan No.: **E550-074**  
SHEET 2 OF 2





**NOTES:**

1) Contours are computer generated to Hydrographic Standard (inclusive)

2) Soundings are coloured to -1.0m and for clearance purposes

3) Coastline digitised from aerial photography is approximate only

4) Horizontal position and vertical height check conducted over PM 58852 on 01/06/2018

5) Cadastre boundaries have been sourced from the Digital Cadastral Data Base (DCDB) and are approximate only. They should not be used for reinstatement on set-out. For actual property boundaries consult a licensed cadastral surveyor

6) The AHD to LAT separation value of 1.292m was calculated using 13 days of tidal observations at Shout Point Front Lead TSN 059113A. AHD datum was established by RTK-GNSS observations from PM58841

7) Tidal restrictions were seen to exist at the proposed boat ramp location. This was determined by analysing 4 days of tidal observations at the site. Further tidal observations would be required to determine if a Low Water Restriction exists at the site

8) The semi-diurnal tidal plane for Shout Point was obtained from the 'Queensland Tide Tables 2018'. The tidal plane was block shifted by a value of -1.29m based on observed AHD to LAT values.

<b>Horizontal Datum</b>		<b>MGA Zone 58 (GDA84)</b>	
<b>Base Station</b>	PM130522	<b>Eastings</b>	491671.406
<b>Vertical Datum</b>	AHD based on	<b>PM 58841</b>	<b>RL 9.407m</b>
<b>Tide Notes</b>			
Soundings reduced to datum using Giny 8.18.0 and RTK-GNSS survey systems			
<b>Depth Tolerance</b>	0.15m	<b>Horizontal Tolerance</b>	1.5m
<b>Weather</b>	10 knots SE		

<b>Vessel</b>	Boab Sports Rider
<b>Echo Sounder</b>	Ceescope 100
<b>Heave meter</b>	Novatel 628 RTK-GNSS Rover
<b>Horizontal Positioning</b>	Novatel 628 RTK-GNSS Rover
<b>Data Collection/Processing</b>	Giny v8.18.0
<b>Tidal Reference Station</b>	TS 059113A

**SOUNDINGS (m)**

2.5 below datum

0.7 above datum

**LEVELS (m)**

0.9 above datum

1.3 below datum

**SCALE 1 : 2000 AT A1**

0 20 100 200

**CLASS**

N/A

**CLIENT**

PMD

**Signature**

Hydrographic Surveyor

Surveyor

Checked

R Penington

T Reise

**Queensland Government**

**HYDROGRAPHIC SERVICES**

Ph: (07) 5506 5500

Email: hydro@maq.qld.gov.au

**GREAT SANDY STRAIGHTS**

**POONA CREEK ENTRANCE**

**HYDROGRAPHIC SURVEY**

**18 JUNE 2018**

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**Plot File:** E550075p4.PDF

**Job No.:** MB060092

**Plan No.:**

**E550-075**

**SHEET 4 OF 5**



Vessel	Boab Sports Rider	SOUNDINGS (m)
Echo Sounder	Celescope 100	2.5 below datum
Heaveometer	Novatel 628 RTK-GNSS Rover	0.7 above datum
Horizontal Positioning	Novatel 628 RTK-GNSS Rover Lisca 6510 RTK-GNSS base	LEVELS (m)
Data Collection/Processing	Ginsy w/ 8.10 Terramodel 10.61d	0.99 above datum
Tidal Reference Station	TS 059113A	1.23 below datum

Signature	
Hydrographic Surveyor	
Surveyor	R Penington
Checked	T Reise

**GREAT SANDY STRAIGHTS**  
**POONA CREEK ENTRANCE**  
**HYDROGRAPHIC SURVEY**  
**18 JUNE 2018**

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**Plot File.** E550075p5.PDF

**Job No.** MB060092

**Plan No.**

**E550-075**

SHEET 5 OF 5