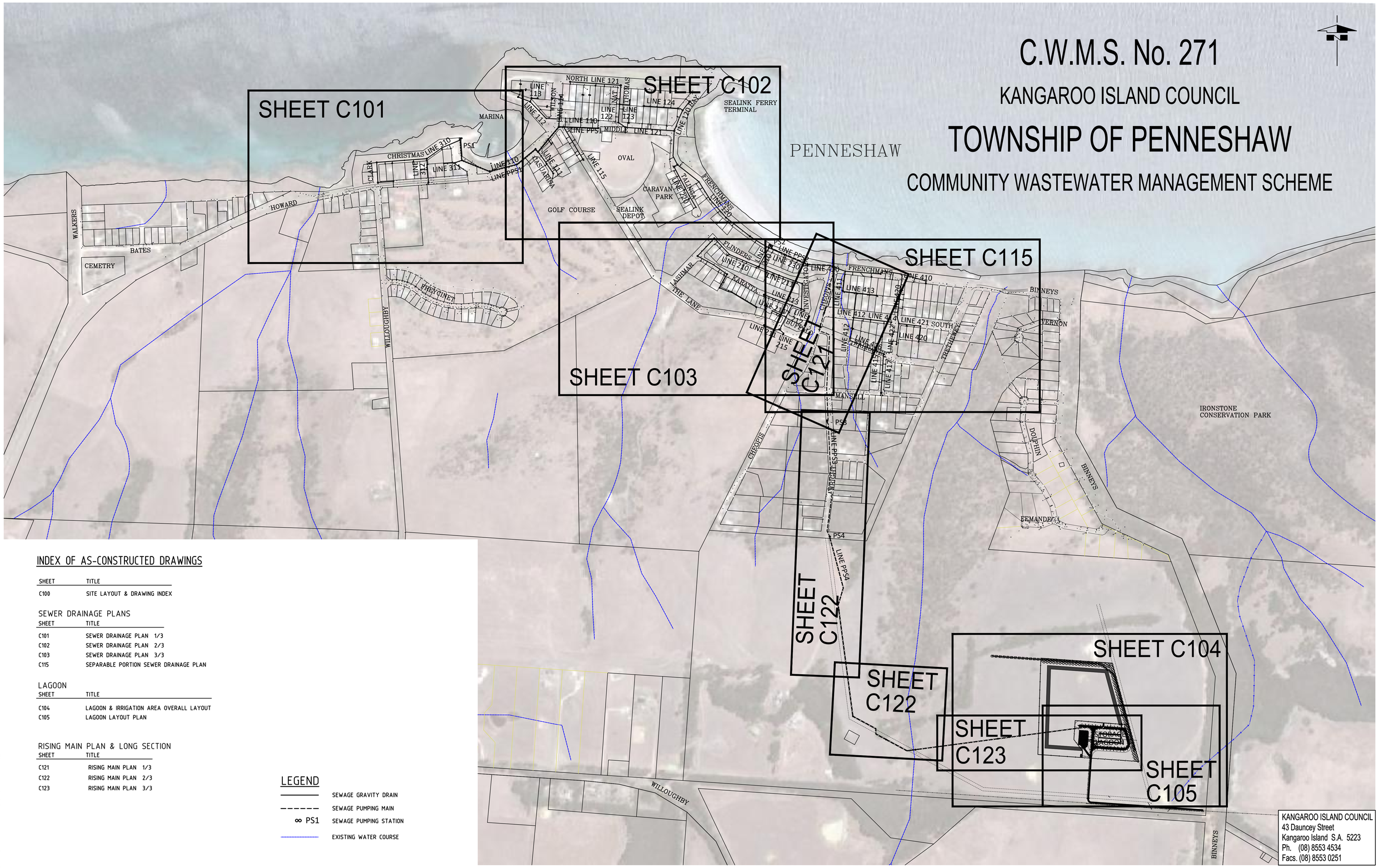
C.W.M.S. No. 271

KANGAROO ISLAND COUNCIL

TOWNSHIP OF PENNESHAW

COMMUNITY WASTEWATER MANAGEMENT SCHEME



INDEX OF AS-CONSTRUCTED DRAWINGS

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SEWER DRAINAGE PLANS

SHEET	TITLE
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C102	SEWER DRAINAGE PLAN 2/3
C103	SEWER DRAINAGE PLAN 3/3
C115	SEPARABLE PORTION SEWER DRAINAGE PLAN

LAGOON

SHEET	TITLE
C104	LAGOON & IRRIGATION AREA OVERALL LAYOUT
C105	LAGOON LAYOUT PLAN

RISING MAIN PLAN & LONG SECTION

SHEET	TITLE
C121	RISING MAIN PLAN 1/3
C122	RISING MAIN PLAN 2/3
C123	RISING MAIN PLAN 3/3

LEGEND

- SEWAGE GRAVITY DRAIN
- SEWAGE PUMPING MAIN
- PS1 SEWAGE PUMPING STATION
- EXISTING WATER COURSE

100 50 0 100 200 300 400 500 600 700 800 900 1000 metres

SCALE 1:5000

OVERALL CONTOURS:
CONTOUR INTERVAL APPROX. 10 metres
(OVERALLCONTOURS INDICATE GENERAL TOPOGRAPHY ONLY AND ARE NOT ACCURATE)

When sheet printed full size, the scale bar is 100mm.

0 50 100mm

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A	04.06.14	COUNCIL APPROVAL	AW	MM	
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C	01.04.15	ISSUE FOR TENDER	JJW	TB	
D	27.04.15	ISSUE FOR TENDER	JJF	TB	
0	23.11.2015	CONSTRUCTION ISSUE	JPF	TB	
1	04.04.18	AS CONSTRUCTED	GPB	MO	

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KANGAROO ISLAND COUNCIL
KANGAROO ISLAND, SOUTH AUSTRALIA
SITE LAYOUT & DRAWING INDEX

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A1

Design	Drawn	DRAWING NUMBER Job Number	Sheet No.	Rev.
MM	JPF	C070466	C100	1

KANGAROO ISLAND COUNCIL
43 Dauncey Street
Kangaroo Island S.A. 5223
Ph. (08) 8553 4534
Facs. (08) 8553 0251

I:\2007\04Apr2007\C070466\Drawings\C070466-C100.dwg, 1, 5/4/2018 11:32 AM, gbrooksby

LEGEND:

- GRAVITY SEWER MAIN
- RISING MAIN
- HYDRANT VALVE, STOP VALVE, AIR VALVE
- SEWER INSPECTION OPENING (IO)
- MAINTENANCE SHAFT (MS, MSJ OR TMS)
- MAINTENANCE HOLE (MH)
- PROPERTY CONNECTION
- 25.50 / 25.00 — PROPERTY CONNECTION SURFACE LEVEL / PROPERTY CONNECTION INVERT LEVEL
- (13) — DEPTH OF CONNECTION
- (P) — MONO INVISIQ PUMP CHAMBER
- W — EXISTING WATERMAIN
- T — EXISTING TELSTRA CABLE
- SW — EXISTING STORMWATER PIPE

I:\2007\044\pr2007\C070466\Drawings\C070466-C101.dwg, 2. 5/4/2018 11:39 AM, gbrooksby

When sheet printed full size, the scale bar is 100mm.

0 50 100mm

20 10 0 20 40 metres

SCALE 1:1000

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REV.	DATE	DESCRIPTION	DRAFT	ENG.	CHKD
C	01.04.15	ISSUE FOR TENDER	JJW	TB	
D	27.04.15	ISSUE FOR TENDER	JJF	TB	
E	28.09.2015	TENDER ISSUE, ALLOTMENT 135 BOUNDARY CORRECTED	JPF	TB	
0	23.11.2015	CONSTRUCTION ISSUE	JPF	TB	
1	07.03.16	LINE 310 & 316 AMENDED	CJH	TB	NS
2	04.04.18	AS CONSTRUCTED	GPB	MO	NS

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KANGAROO ISLAND, SOUTH AUSTRALIA

SEWER DRAINAGE PLAN 1/4

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A1

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Design	Drawn	Job Number	Sheet No.	Rev.
MM	JPF	C070466	C101	2

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LEGEND:

- GRAVITY SEWER MAIN
- RISING MAIN
- HYDRANT VALVE, STOP VALVE, AIR VALVE
- SEWER INSPECTION OPENING (IO)
- MAINTENANCE SHAFT (MS, MSJ OR TMS)
- MAINTENANCE HOLE (MH)
- PROPERTY CONNECTION
- 25.50 / 25.00 — PROPERTY CONNECTION SURFACE LEVEL / PROPERTY CONNECTION INVERT LEVEL
- (1.3) — DEPTH OF CONNECTION
- (P) — MONO INVISIQ PUMP CHAMBER
- W — EXISTING WATERMAIN
- T — EXISTING TELSTRA CABLE
- SW — EXISTING STORMWATER PIPE

When sheet printed full size, the scale bar is 100mm.

0 50 100mm

20 10 0 20 40 metres

SCALE 1:1000

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D	27.04.15	ISSUE FOR TENDER	JJF	TB	
0	23.11.2015	CONSTRUCTION ISSUE	JPF	TB	
1	06.05.16	LINES 110,111,112,114, 115, 120 & 120 AMENDED	CJH	NS	NS
2	04.04.18	AS CONSTRUCTED	GPB	MO	NS

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SEWER DRAINAGE PLAN 2/4

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A1

Design	Drawn	Job Number	Sheet No.	Rev.
MM	JPF	C070466	C102	2

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PUMP STATION 'PS2' SCHEDULE

PUMP STATION NAME	PS2
PUMP STATION PEAK INFLOW	7.3 l/s
CHAMBER SIZE	3.00mØ
TOP OF TANK	*3.68m AHD*
INLET PIPE INVERT	*2.67m AHD*
CHAMBER INVERT	*0.25m AHD*
EMERGENCY STORAGE CHAMBER SIZE	3.00mØ
INVERT OF EMERGENCY STORAGE CHAMBER	*1.34m AHD*
HIGH HIGH LEVEL ALARM	1.20m AHD
HIGH LEVEL ALARM	1.05m AHD
STANDBY PUMP ON	0.90m AHD
DUTY PUMP ON	0.75m AHD
PUMP CUT OUT	0.50m AHD
PUMP MODEL (FLYGT PRODUCT)	NP3171.181SH-213mm IMP
OPERATIONAL DUTY	10.5 l/s AT 58.9m

LEGEND:

- GRAVITY SEWER MAIN
- RISING MAIN
- HYDRANT VALVE, STOP VALVE, AIR VALVE
- SEWER INSPECTION OPENING (IO)
- MAINTENANCE SHAFT (MS, MSJ OR TMS)
- MAINTENANCE HOLE (MH)
- PROPERTY CONNECTION
- 25.50 / 25.00 — PROPERTY CONNECTION SURFACE LEVEL / PROPERTY CONNECTION INVERT LEVEL
- (13) — DEPTH OF CONNECTION
- (P) — MONO INVISIQ PUMP CHAMBER
- W — EXISTING WATERMAIN
- T — EXISTING TELSTRA CABLE
- SW — EXISTING STORMWATER PIPE

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When sheet printed full size, the scale bar is 100mm.

0 50 100mm

20 10 0 20 40 metres

SCALE 1:1000

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C	01.04.15	ISSUE FOR TENDER	JJW	TB	
D	27.04.15	ISSUE FOR TENDER	JJF	TB	
0	23.11.2015	CONSTRUCTION ISSUE	JPF	TB	
1	04.04.18	AS CONSTRUCTED	GPB	MO	

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SEWER DRAINAGE PLAN 3/4

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DRAWING NUMBER

Design	Drawn	Job Number	Sheet No.	Rev.
MM	JPF	C070466	C103	1

LEGEND:

- COMPACTED RUBBLE
- CHAIN MESH FENCE
- STOCK FENCE
- GATE POST
- ELECTRICAL PIT
- SEWER RISING MAIN

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20 10 0 25 50
SCALE BAR (m)
1:1250 @ A1

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C	03.11.14	REVISED ISSUE FOR COUNCIL	JJW	MM	
D	25.02.15	REVISED ISSUE FOR COUNCIL	JJF	MM	NS
E	01.04.15	ISSUE FOR TENDER	JJW	TB	
F	27.04.15	ISSUE FOR TENDER	JJF	TB	
G	05.08.15	DEPARTMENT OF HEALTH APPROVAL	CJH	TB	
Ø	23.11.2015	CONSTRUCTION ISSUE	JPF	TB	
1	04.04.18	AS CONSTRUCTED	GPB	MO	

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LAGOON & IRRIGATION AREA OVERALL LAYOUT ©

A1

DRAWING NUMBER

Design	Drawn	Job Number	Sheet No.	Rev.
MM	JPF	C070466	C104	1

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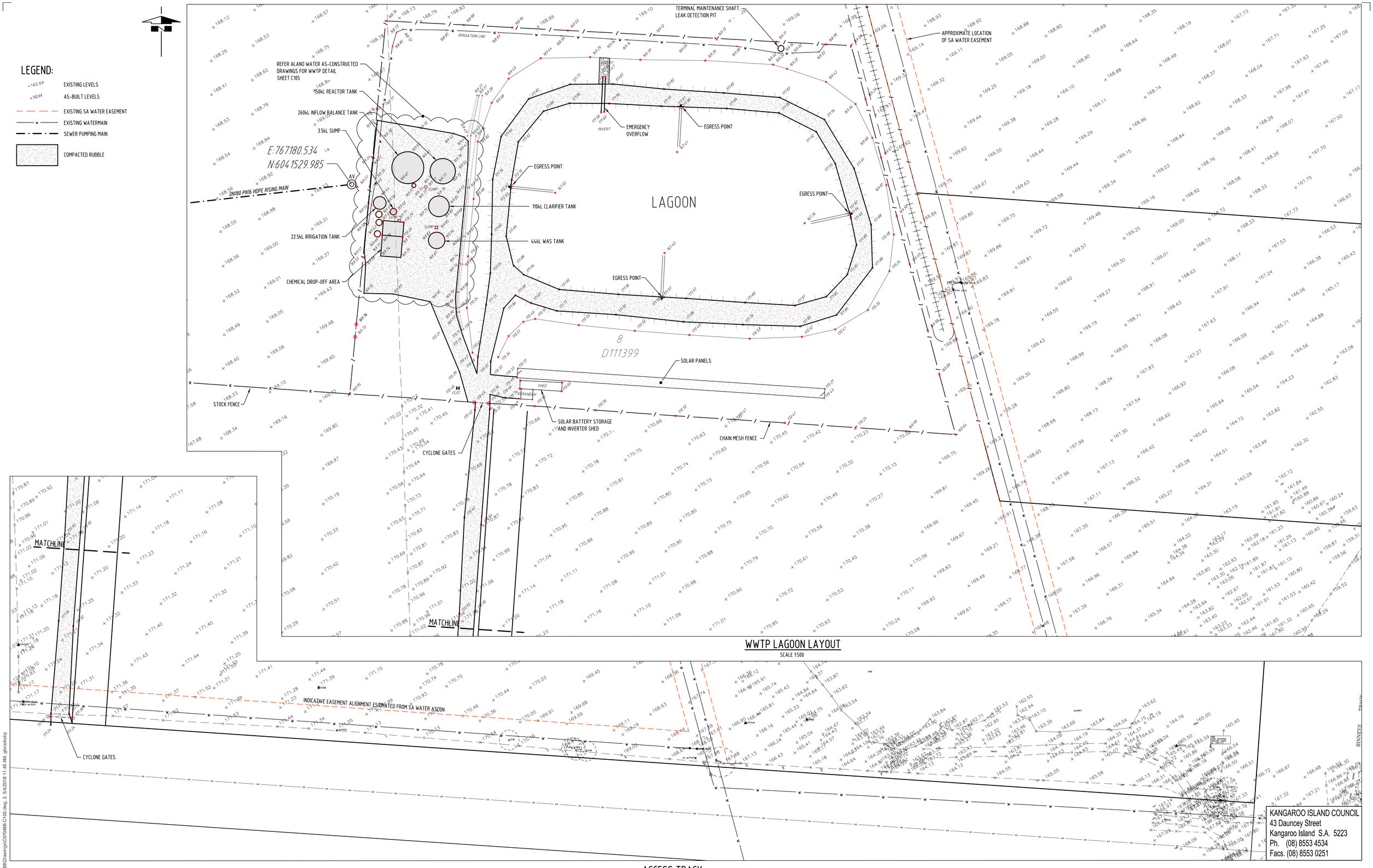

WWTP LAGOON LAYOUT

SCALE 1:500

ACCESS TRACK

SCALE 1:500

10 5 0 10 20

SCALE BAR (m)

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D	25.02.15	REVISED ISSUE FOR COUNCIL	JJF	MM	NS
E	01.04.15	ISSUE FOR TENDER	JJW	TB	
F	27.04.15	ISSUE FOR TENDER	JJF	TB	
0	23.11.2015	CONSTRUCTION ISSUE	JPF	TB	
1	02.12.2015	AMENDMENTS AS CLOUDED	JJF	TB	
2	04.04.18	AS CONSTRUCTED	GPB	MO	

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LAGOON LAYOUT PLAN

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A1

DRAWING NUMBER

Job Number	Sheet No.	Rev.
C070466	C105	2

Design MM Drawn JPF

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REFER TO SHEET C103

Ø150 PVC GRAVITY LINE INSTALLED AND CONNECTED TO DN125 PN16 HDPE FOR PUMP STATION OVERFLOW

FOR PUMP STATION DETAIL REFER DRAWING C107

REFER TO SHEET C121

SCALE 1:1000

20 10 0 20 40 metres

LEGEND:

- GRAVITY SEWER MAIN
- RISING MAIN
- HYDRANT VALVE, STOP VALVE, AIR VALVE
- SEWER INSPECTION OPENING (IO)
- MAINTENANCE SHAFT (MS, MSJ OR TMS)
- MAINTENANCE HOLE (MH)
- PROPERTY CONNECTION
- 25.50 / 25.00 — PROPERTY CONNECTION SURFACE LEVEL / PROPERTY CONNECTION INVERT LEVEL
- (1.3) — DEPTH OF CONNECTION
- (P) — MONO INVISIQ PUMP CHAMBER
- W — EXISTING WATERMAIN
- T — EXISTING TELSTRA CABLE
- SW — EXISTING STORMWATER PIPE

When sheet printed full size, the scale bar is 100mm.

0 50 100mm

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D	27.04.15	ISSUE FOR TENDER	JJF	TB	
0	23.11.2015	CONSTRUCTION ISSUE	JPF	TB	
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2	28.11.16	LINES 410, 411 & 420 AMENDED	CJH	MO	
3	04.04.18	AS CONSTRUCTED	GPB	MO	

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KANGAROO ISLAND, SOUTH AUSTRALIA

SEWER DRAINAGE PLAN 4/4

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A1

DRAWING NUMBER

Design	Drawn	Job Number	Sheet No.	Rev.
MM	JPF	C070466	C115	3

PUMP STATION 'PS2' SCHEDULE

PUMP STATION NAME	PS2
PUMP STATION PEAK INFLOW	7.3 l/s
CHAMBER SIZE	3.00mØ
TOP OF TANK	*3.68m AHD*
INLET PIPE INVERT	*2.67m AHD*
CHAMBER INVERT	*0.25m AHD*
EMERGENCY STORAGE CHAMBER SIZE	3.00mØ
INVERT OF EMERGENCY STORAGE CHAMBER	*1.34m AHD*
HIGH HIGH LEVEL ALARM	1.20m AHD
HIGH LEVEL ALARM	1.05m AHD
STANDBY PUMP ON	0.90m AHD
DUTY PUMP ON	0.75m AHD
PUMP CUT OUT	0.50m AHD
PUMP MODEL (FLYGT PRODUCT)	NP3171.181SH-213mm IMP
OPERATIONAL DUTY	10.5 l/s AT 58.9m

REFER TO SHEET C122

PLAN

SCALE 1:1000

PUMP STATION 'PS3' SCHEDULE

PUMP STATION NAME	PS3
PUMP STATION PEAK INFLOW	10.5 l/s
CHAMBER SIZE	3.00mØ
TOP OF TANK	*56.29m AHD*
INLET PIPE INVERT	*_____m AHD*
CHAMBER INVERT	*54.28m AHD*
HIGH HIGH LEVEL ALARM	55.95m AHD
HIGH LEVEL ALARM	55.80m AHD
STANDBY PUMP ON	55.65m AHD
DUTY PUMP ON	55.50m AHD
PUMP CUT OUT	55.15m AHD
PUMP MODEL (FLYGT PRODUCT)	NP3171.181SH-213 IMP
OPERATIONAL DUTY	10.5 l/s AT 58.9m

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LEGEND:

- GRAVITY SEWER MAIN
- RISING MAIN
- HYDRANT VALVE, STOP VALVE, AIR VALVE
- SEWER INSPECTION OPENING (IO)
- MAINTENANCE SHAFT (MS, MSJ OR TMS)
- MAINTENANCE HOLE (MH)
- PROPERTY CONNECTION
- 25.50 / 25.00 — PROPERTY CONNECTION SURFACE LEVEL / PROPERTY CONNECTION INVERT LEVEL
- (1.1) — DEPTH OF CONNECTION
- (P) — MONO INVISIQ PUMP CHAMBER
- W — EXISTING WATERMAIN
- T — EXISTING TELSTRA CABLE
- SW — EXISTING STORMWATER PIPE

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When sheet printed full size, the scale bar is 100mm.

0 50 100mm

20 10 0 20 40

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C	01.04.15	ISSUE FOR TENDER	JJW	TB	
D	27.04.15	ISSUE FOR TENDER	JJW	TB	
Ø	23.11.2015	CONSTRUCTION ISSUE	JPF	TB	
1	04.04.18	AS CONSTRUCTED	GPB	MO	

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KANGAROO ISLAND, SOUTH AUSTRALIA

RISING MAIN PLAN 1/3

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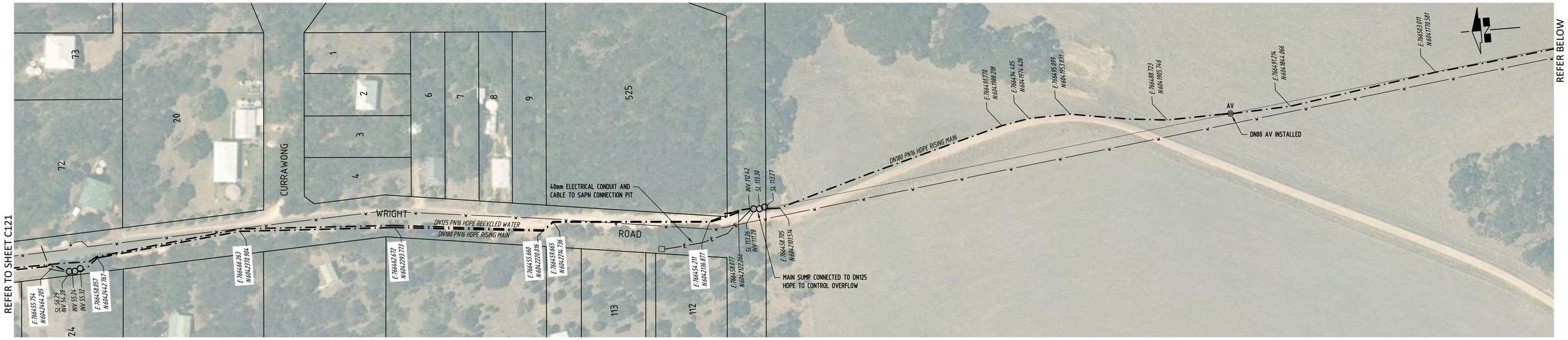
A1

DRAWING NUMBER

Job Number	Sheet No.	Rev.
C070466	C121	1

Design	Drawn
MM	JJW



PLAN
SCALE 1:1000

PUMP STATION 'PS3' SCHEDULE

PUMP STATION NAME	PS3
PUMP STATION PEAK INFLOW	10.5 l/s
CHAMBER SIZE	3.00mØ
TOP OF TANK	*56.29m AHD*
INLET PIPE INVERT	*-----m AHD*
CHAMBER INVERT	*54.28m AHD*
HIGH HIGH LEVEL ALARM	55.95m AHD
HIGH LEVEL ALARM	55.80m AHD
STANDBY PUMP ON	55.65m AHD
DUTY PUMP ON	55.50m AHD
PUMP CUT OUT	55.15m AHD
PUMP MODEL (FLYGT PRODUCT)	NP3171.181SH-213 IMP
OPERATIONAL DUTY	10.5 l/s AT 58.9m

PUMP STATION 'PS4' SCHEDULE

PUMP STATION NAME	PS4
PUMP STATION PEAK INFLOW	10.5 l/s
CHAMBER SIZE	3.00mØ
TOP OF TANK	*113.26m AHD*
INLET PIPE INVERT	*112.42m AHD*
CHAMBER INVERT	*111.28m AHD*
HIGH HIGH LEVEL ALARM	112.60m AHD
HIGH LEVEL ALARM	112.45m AHD
STANDBY PUMP ON	112.30m AHD
DUTY PUMP ON	112.15m AHD
PUMP CUT OUT	111.80m AHD
PUMP MODEL (FLYGT PRODUCT)	NP3171.181SH-226 IMP
OPERATIONAL DUTY	10.0 l/s AT 66.0m

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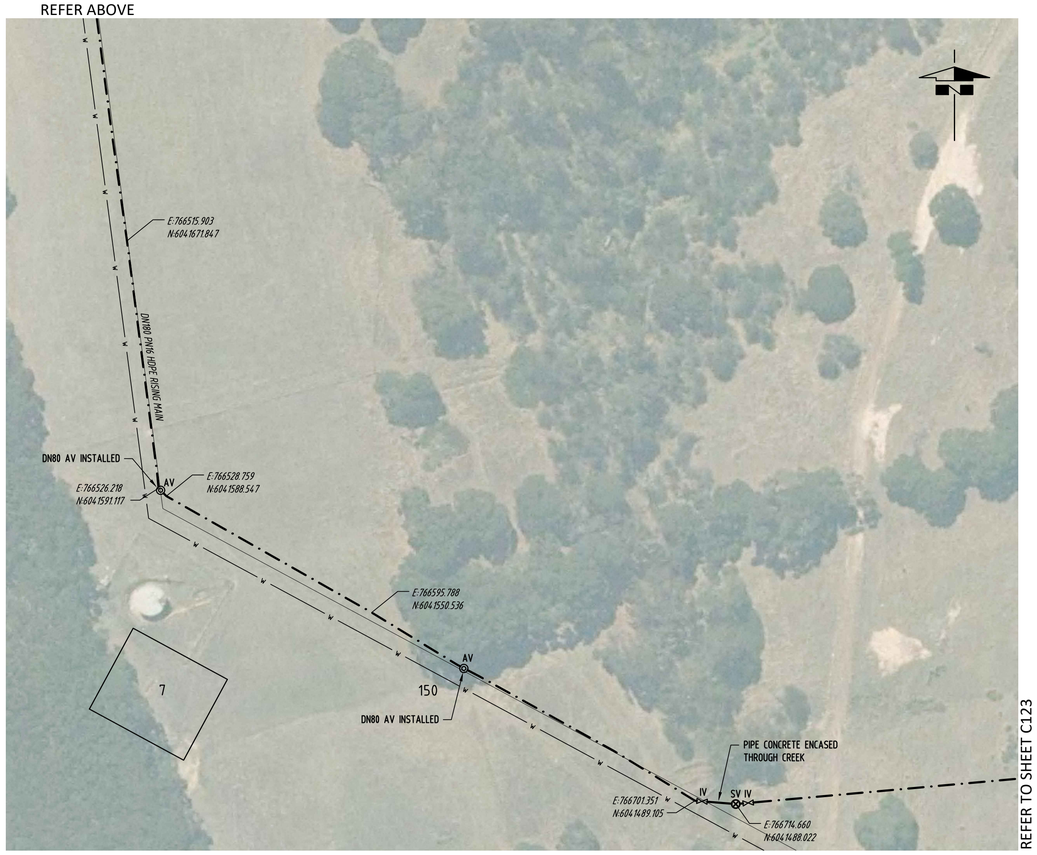

REFER TO SHEET C123

PLAN
SCALE 1:1000

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LEGEND:

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- RISING MAIN
- HYDRANT VALVE, STOP VALVE, AIR VALVE
- SEWER INSPECTION OPENING (IO)
- MAINTENANCE SHAFT (MS, MSJ OR TMS)
- MAINTENANCE HOLE (MH)
- PROPERTY CONNECTION
- 25.50 / 25.00 — PROPERTY CONNECTION SURFACE LEVEL / PROPERTY CONNECTION INVERT LEVEL
- (1.3) — DEPTH OF CONNECTION
- (P) — MONO INVISIQ PUMP CHAMBER
- W — EXISTING WATERMAIN
- T — EXISTING TELSTRA CABLE
- SW — EXISTING STORMWATER PIPE

I:\2007\04qr\2007\2070466\Drawings\C070466-C122.dwg, 1, 5/4/2018 11:50 AM, gbrooksby

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0 50 100mm

20 10 0 20 40
SCALE 1:1000

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D	27.04.15	ISSUE FOR TENDER	JJW	TB	
0	23.11.2015	CONSTRUCTION ISSUE	JPF	TB	
1	04.04.18	AS CONSTRUCTED	GPB	MO	

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PENNESHAW CWMS No. 271

KANGAROO ISLAND COUNCIL
KANGAROO ISLAND, SOUTH AUSTRALIA

RISING MAIN PLAN 2/3

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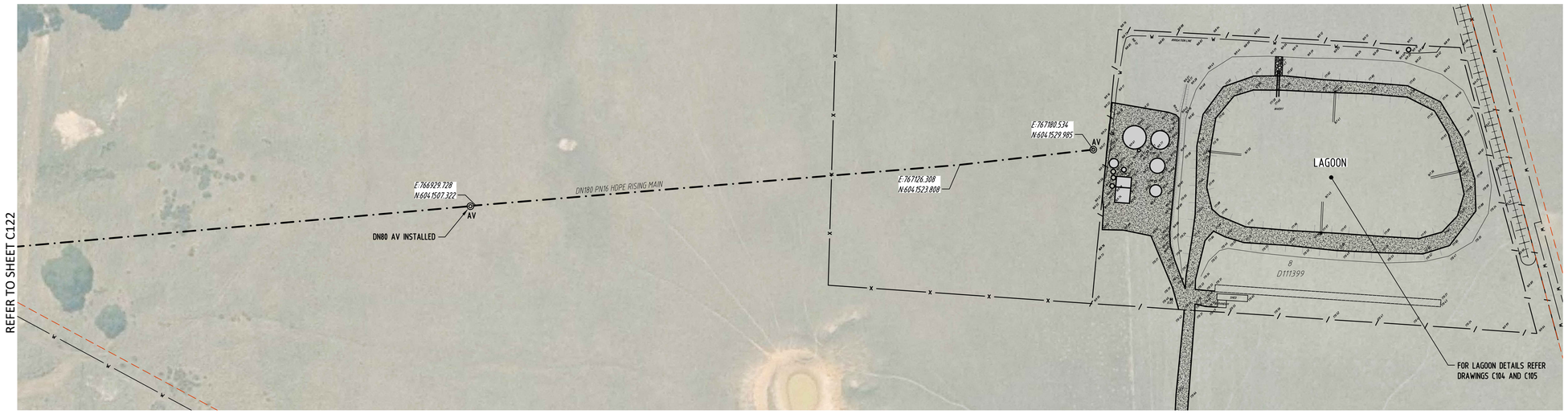
A1

DRAWING NUMBER

Design	Drawn	Job Number	Sheet No.	Rev.
MM	JJW	C070466	C122	1



PLAN

SCALE 1:1000

LEGEND:

- GRAVITY SEWER MAIN
- RISING MAIN
- HYDRANT VALVE, STOP VALVE, AIR VALVE
- SEWER INSPECTION OPENING (IO)
- MAINTENANCE SHAFT (MS, MSJ OR TMS)
- MAINTENANCE HOLE (MH)
- PROPERTY CONNECTION
- 25.50 / 25.00 — PROPERTY CONNECTION SURFACE LEVEL / PROPERTY CONNECTION INVERT LEVEL
- 1.3 — DEPTH OF CONNECTION
- P — MONO INVISIQ PUMP CHAMBER
- W — EXISTING WATERMAIN
- T — EXISTING TELSTRA CABLE
- SW — EXISTING STORMWATER PIPE

When sheet printed full size, the scale bar is 100mm.

0 50 100mm

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SCALE 1:1000

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Therefore, Kangaroo Island Council cannot accept any responsibility for any errors, omissions, or positional accuracy displayed on these maps.

AS CONSTRUCTED

REV.	DATE	DESCRIPTION	DRAFT	ENG.	CHKD
A	04.06.14	COUNCIL APPROVAL	JJW	MM	
B	03.10.14	ISSUE FOR DAC	JPF	MM	
C	01.04.15	ISSUE FOR TENDER	JJW	TB	
D	27.04.15	ISSUE FOR TENDER	JJW	TB	
Ø	23.11.2015	CONSTRUCTION ISSUE	JPF	TB	
1	04.04.18	AS CONSTRUCTED	GPB	MO	

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