

Appendix B Drawings

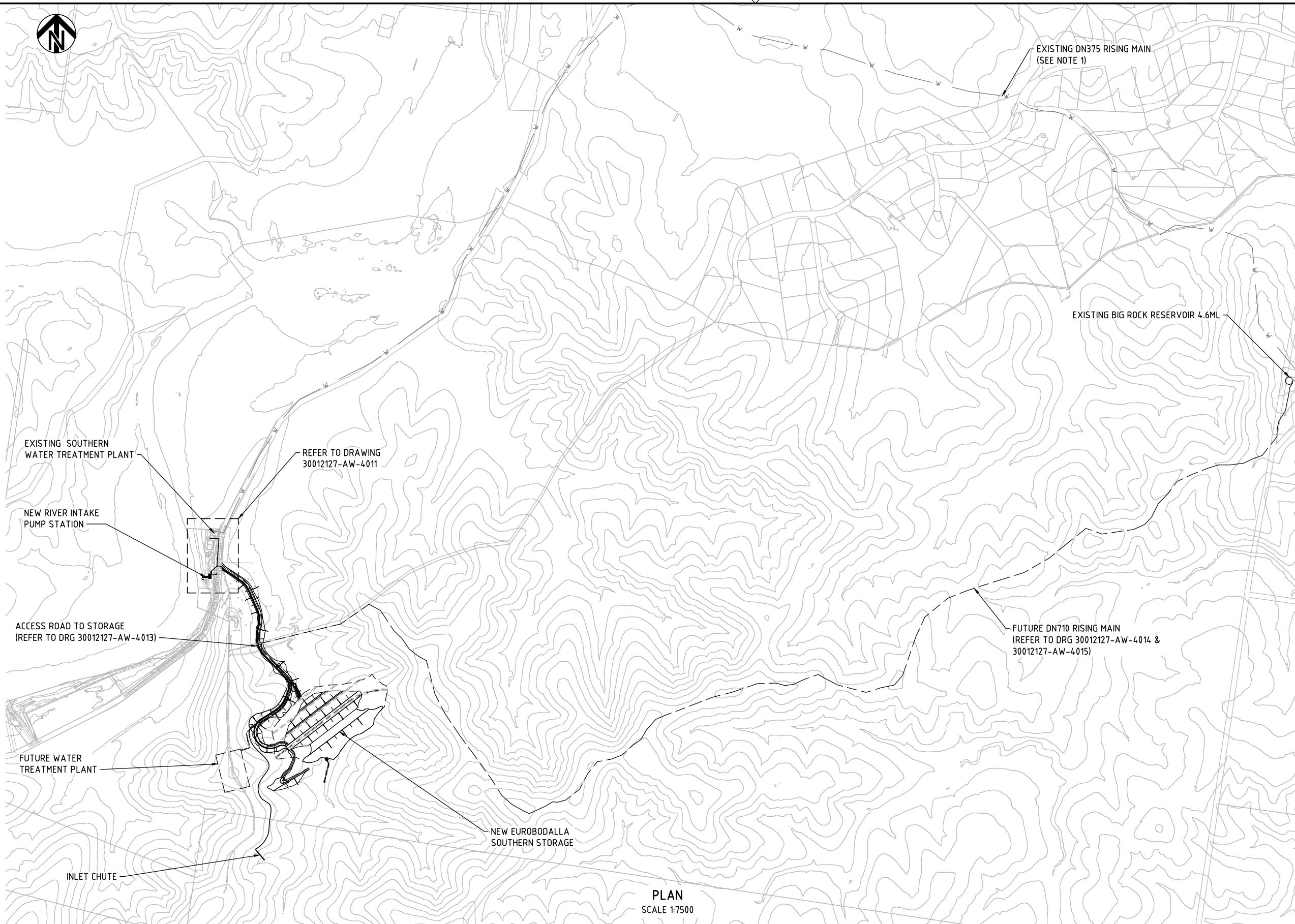


LEGEND

- STAGE 1
- - - STAGE 2

NOTE

1. THE ALIGNMENT OF THE EXISTING DN375 IS APPROXIMATE ONLY.



PLAN
SCALE 1:7500

150 mm ON ORIGINAL
150
140
130
120
110
100
90
80
70
60
50
40

V:_Vault\Projects\30012127\CAD\DWG\4000_Ancillary_Works\30012127-AW-4010.dwg

16 Jun 2017 17:25:15

ISSUE	DATE	AMENDMENT / ISSUE DESCRIPTION	APPROVAL
A	3/03/2017	ISSUED FOR CONCEPT DESIGN	BB
B	16/06/2017	ISSUED FOR CONCEPT DESIGN	CP

TITLE	NAME
DRAFTSMAN	S.BROMFIELD
DRAFTING CHECK	C.PURSS
DESIGNER	A.TING/B. PALIDWAR
DESIGN CHECK	H. VAN. RHIJN
PROJECT MANAGER	D.EVANS
PROJECT DIRECTOR	B.TILBURY

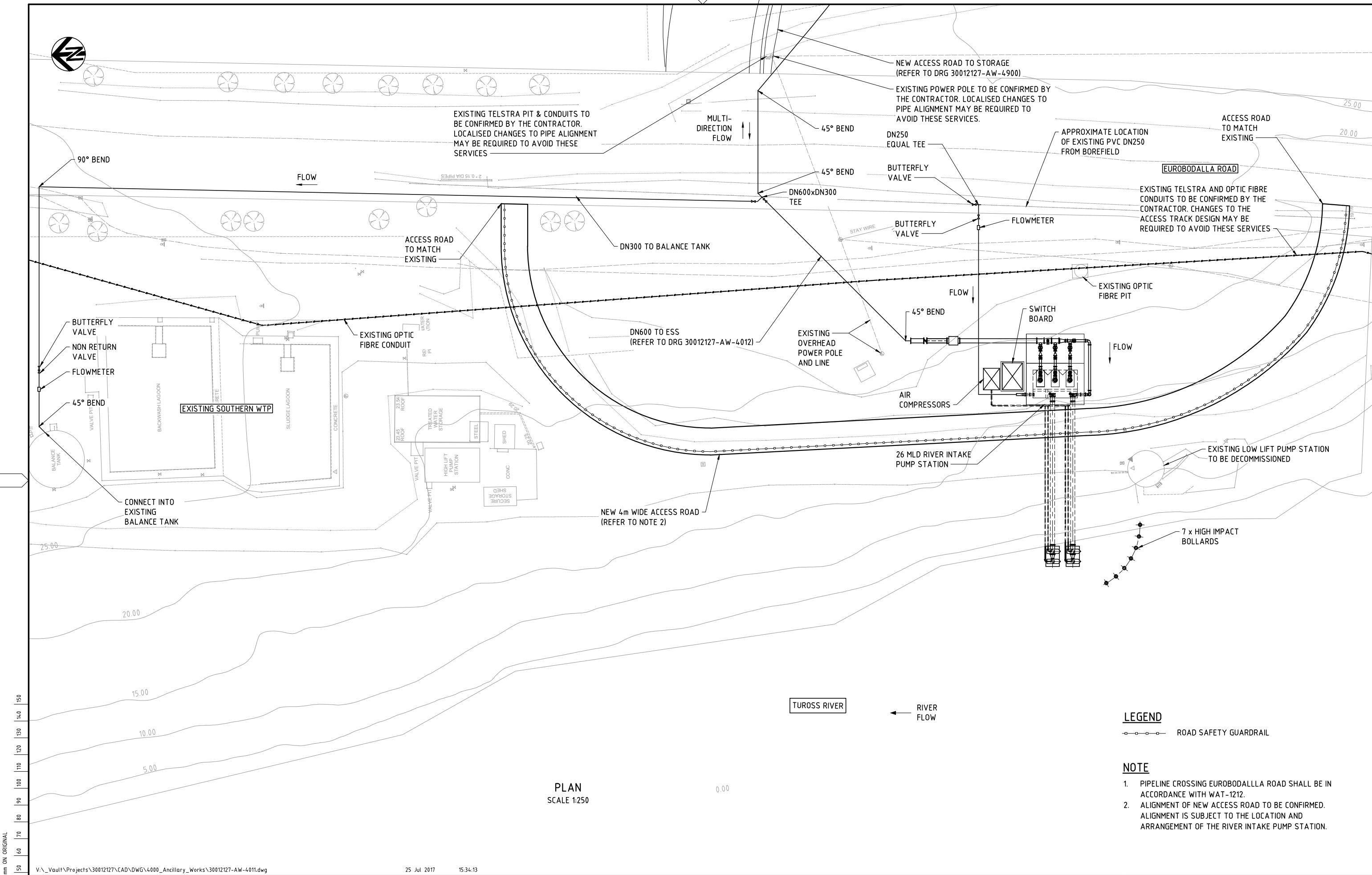
SCALES AT A1 SIZE DRAWING	
SCALE 1:10000	

DESIGNER

CLIENT

PROJECT TITLE	SCALE	DRAWING STATUS	PROJECT / DRAWING No.	ISSUE
EUROBODALLA SHIRE COUNCIL EUROBODALLA SOUTHERN STORAGE ANCILLARY WORKS SITE GENERAL ARRANGEMENT PLAN	AS NOTED	CONCEPT	30012127-AW-4010	B

APPROVED	DATE



EXISTING TELSTRA PIT & CONDUITS TO BE CONFIRMED BY THE CONTRACTOR. LOCALISED CHANGES TO PIPE ALIGNMENT MAY BE REQUIRED TO AVOID THESE SERVICES

NEW ACCESS ROAD TO STORAGE (REFER TO DRG 30012127-AW-4900)

EXISTING POWER POLE TO BE CONFIRMED BY THE CONTRACTOR. LOCALISED CHANGES TO PIPE ALIGNMENT MAY BE REQUIRED TO AVOID THESE SERVICES.

APPROXIMATE LOCATION OF EXISTING PVC DN250 FROM BOREFIELD

ACCESS ROAD TO MATCH EXISTING

EUROBODALLA ROAD

EXISTING TELSTRA AND OPTIC FIBRE CONDUITS TO BE CONFIRMED BY THE CONTRACTOR. CHANGES TO THE ACCESS TRACK DESIGN MAY BE REQUIRED TO AVOID THESE SERVICES

EXISTING OPTIC FIBRE PIT

DN600 TO ESS (REFER TO DRG 30012127-AW-4012)

26 MLD RIVER INTAKE PUMP STATION

EXISTING LOW LIFT PUMP STATION TO BE DECOMMISSIONED

NEW 4m WIDE ACCESS ROAD (REFER TO NOTE 2)

7 x HIGH IMPACT BOLLARDS

TUROSS RIVER

RIVER FLOW

LEGEND

ROAD SAFETY GUARDRAIL

NOTE

- PIPELINE CROSSING EUROBODALLA ROAD SHALL BE IN ACCORDANCE WITH WAT-1212.
- ALIGNMENT OF NEW ACCESS ROAD TO BE CONFIRMED. ALIGNMENT IS SUBJECT TO THE LOCATION AND ARRANGEMENT OF THE RIVER INTAKE PUMP STATION.

PLAN SCALE 1:250

150 mm ON ORIGINAL

V:_Vault\Projects\30012127\CAD\DWG\4000_Ancillary_Works\30012127-AW-4011.dwg

25 Jul 2017 15:34:13

ISSUE	DATE	AMENDMENT / ISSUE DESCRIPTION	APPROVAL
A	3/03/2017	ISSUED FOR CONCEPT DESIGN	BB
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C	19/06/2017	ISSUED FOR CONCEPT DESIGN	CP
D	25/07/2017	ISSUED FOR CONCEPT DESIGN	CP

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DRAFTSMAN	S.BROMFIELD
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DESIGN CHECK	H. VAN. RHIJN
PROJECT MANAGER	D.EVANS
PROJECT DIRECTOR	B.TILBURY

SCALES AT A1 SIZE DRAWING	
SCALE 1:250	

DESIGNER

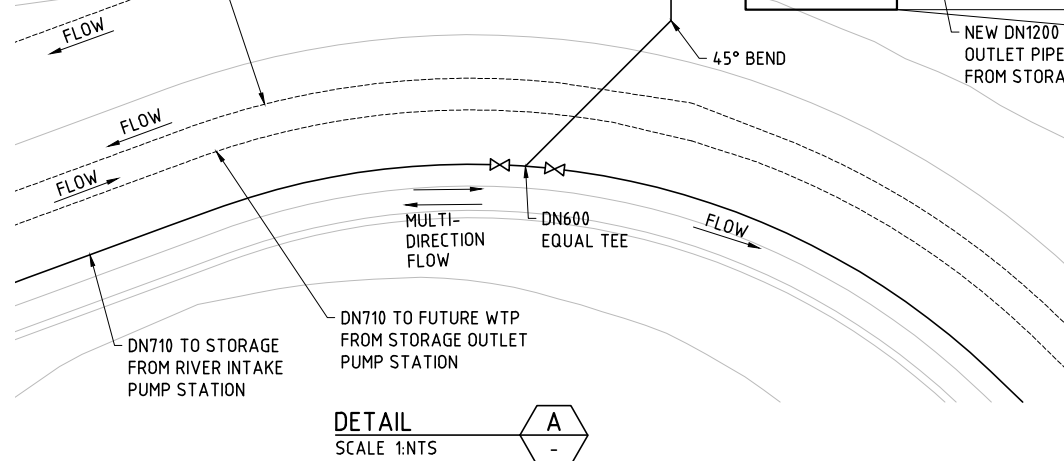
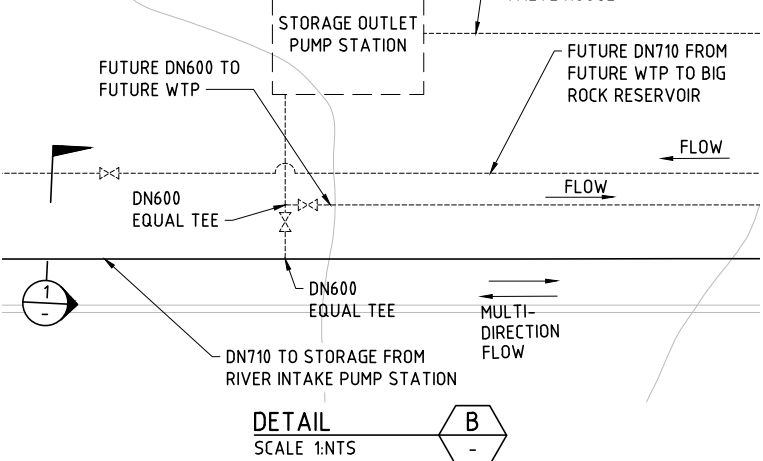
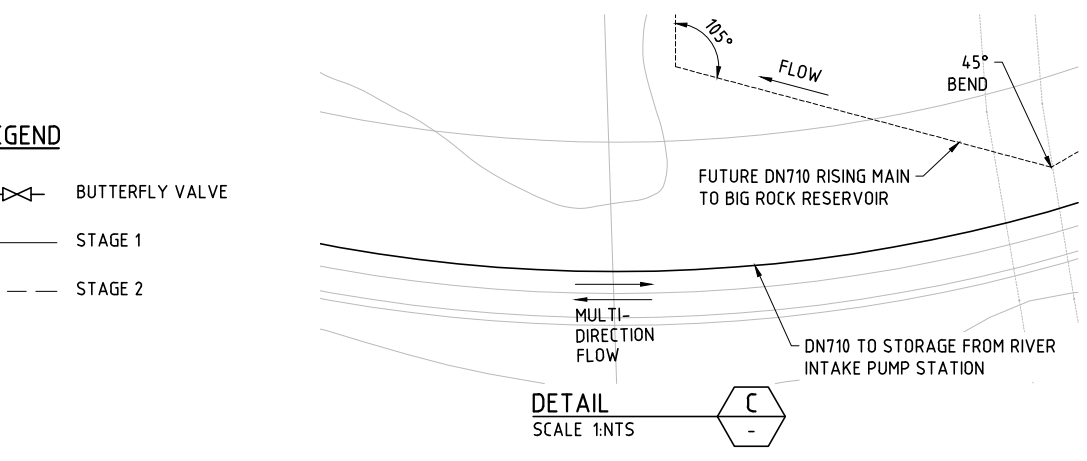
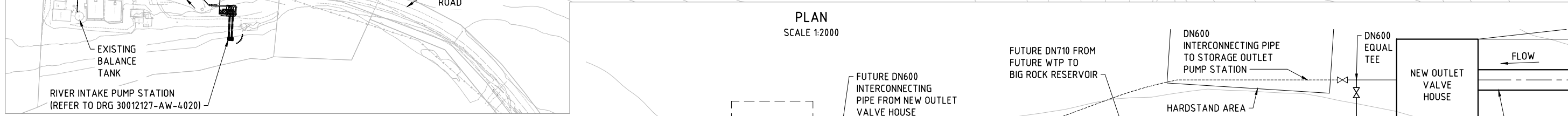
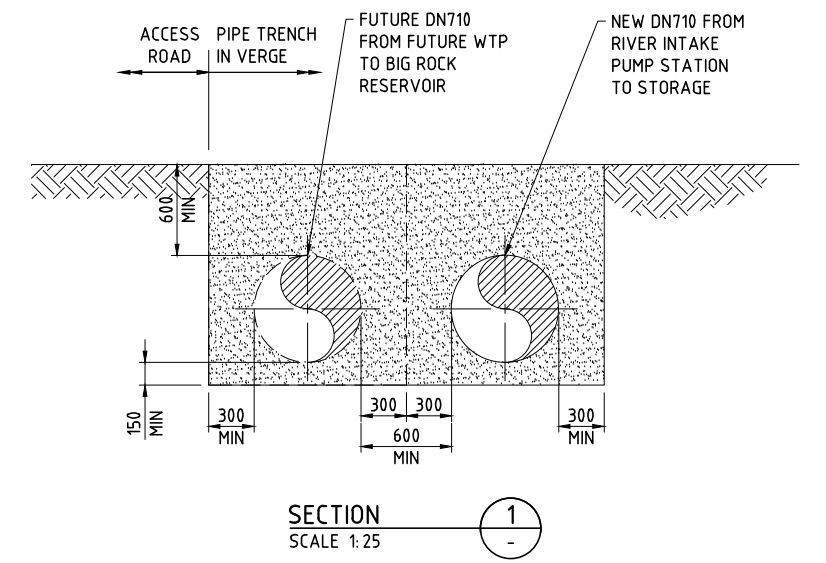
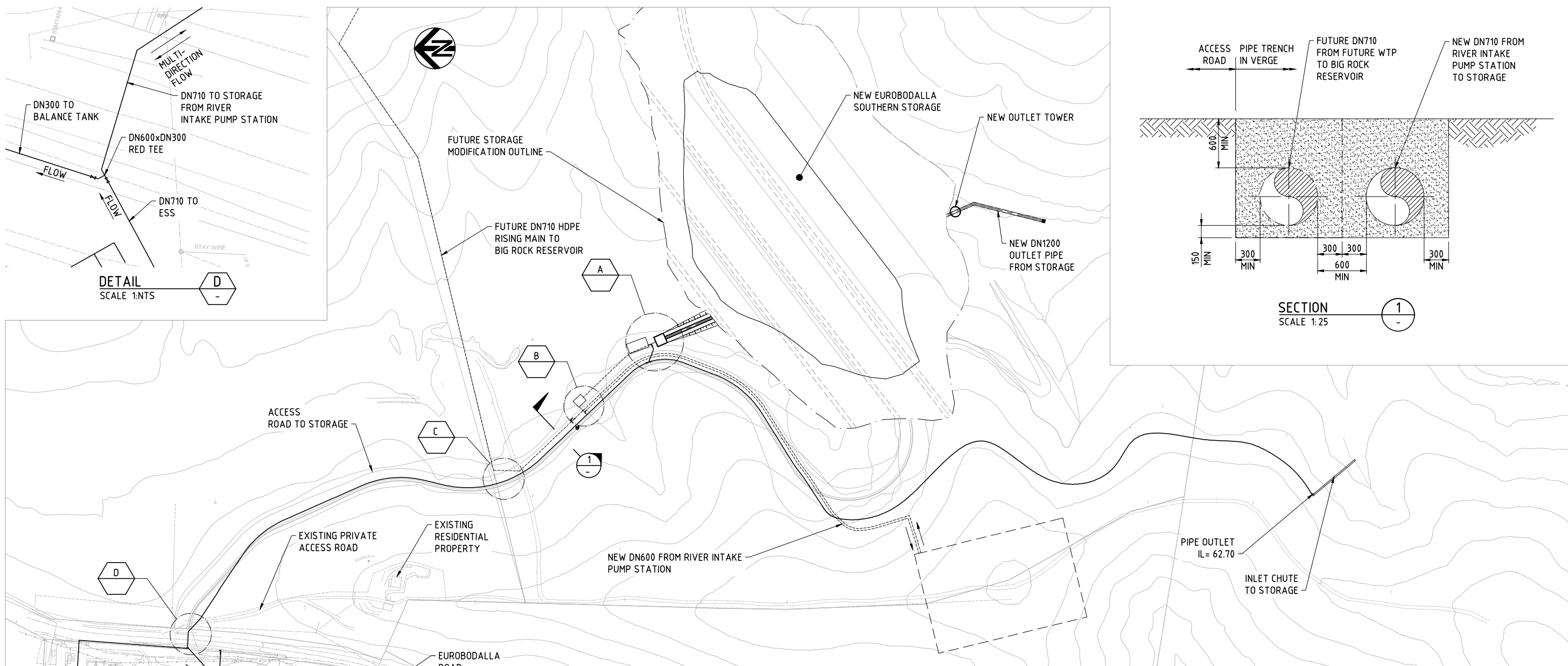
Member of the Surbana Jurong Group

CLIENT

PROJECT TITLE

EUROBODALLA SHIRE COUNCIL
EUROBODALLA SOUTHERN STORAGE
ANCILLARY WORKS
SITE LAYOUT PLAN

SCALE	DRAWING STATUS	PROJECT / DRAWING No.	ISSUE
AS NOTED	CONCEPT	30012127-AW-4011	D



- LEGEND**
- BUTTERFLY VALVE
 - STAGE 1
 - STAGE 2

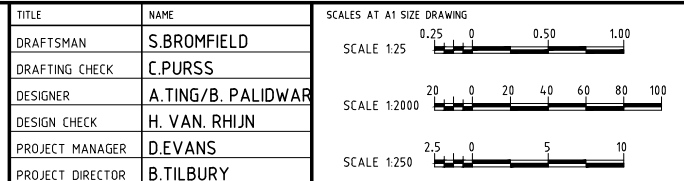
150 mm ON ORIGINAL

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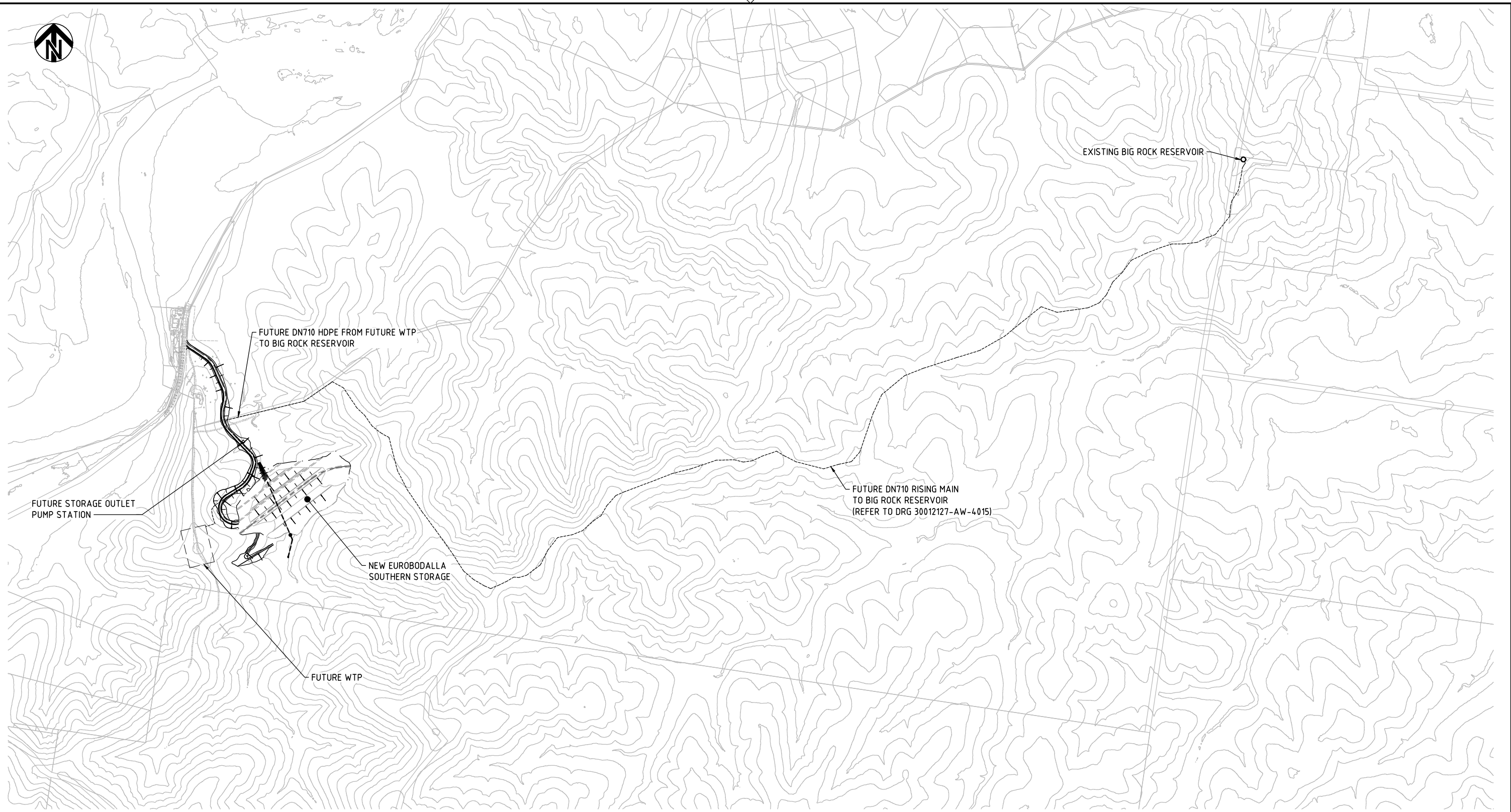
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ISSUE	DATE	AMENDMENT / ISSUE DESCRIPTION	APPROVAL
A	3/03/2017	ISSUED FOR CONCEPT DESIGN	BB
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DESIGNER	A.TING/B. PALIDWAR
DESIGN CHECK	H. VAN. RHIJN
PROJECT MANAGER	D.EVANS
PROJECT DIRECTOR	B.TILBURY



PROJECT TITLE		EUROBODALLA SHIRE COUNCIL EUROBODALLA SOUTHERN STORAGE ANCILLARY WORKS RISING/GRAVITY MAIN PLAN FROM/TO STORAGE	
SCALE	DRAWING STATUS	PROJECT / DRAWING No.	ISSUE
AS NOTED	CONCEPT	30012127-AW-4012	C
APPROVED	DATE		



PLAN
SCALE 1:7500

150 mm ON ORIGINAL
150
140
130
120
110
100
90
80
70
60
50
40
30
20
10
0

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16 Jun 2017 17:27:18

ISSUE	DATE	AMENDMENT / ISSUE DESCRIPTION	APPROVAL
A	3/03/2017	ISSUED FOR CONCEPT DESIGN	BB
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PROJECT MANAGER	D.EVANS
PROJECT DIRECTOR	B.TILBURY

SCALES AT A1 SIZE DRAWING	
SCALE 1:7500	

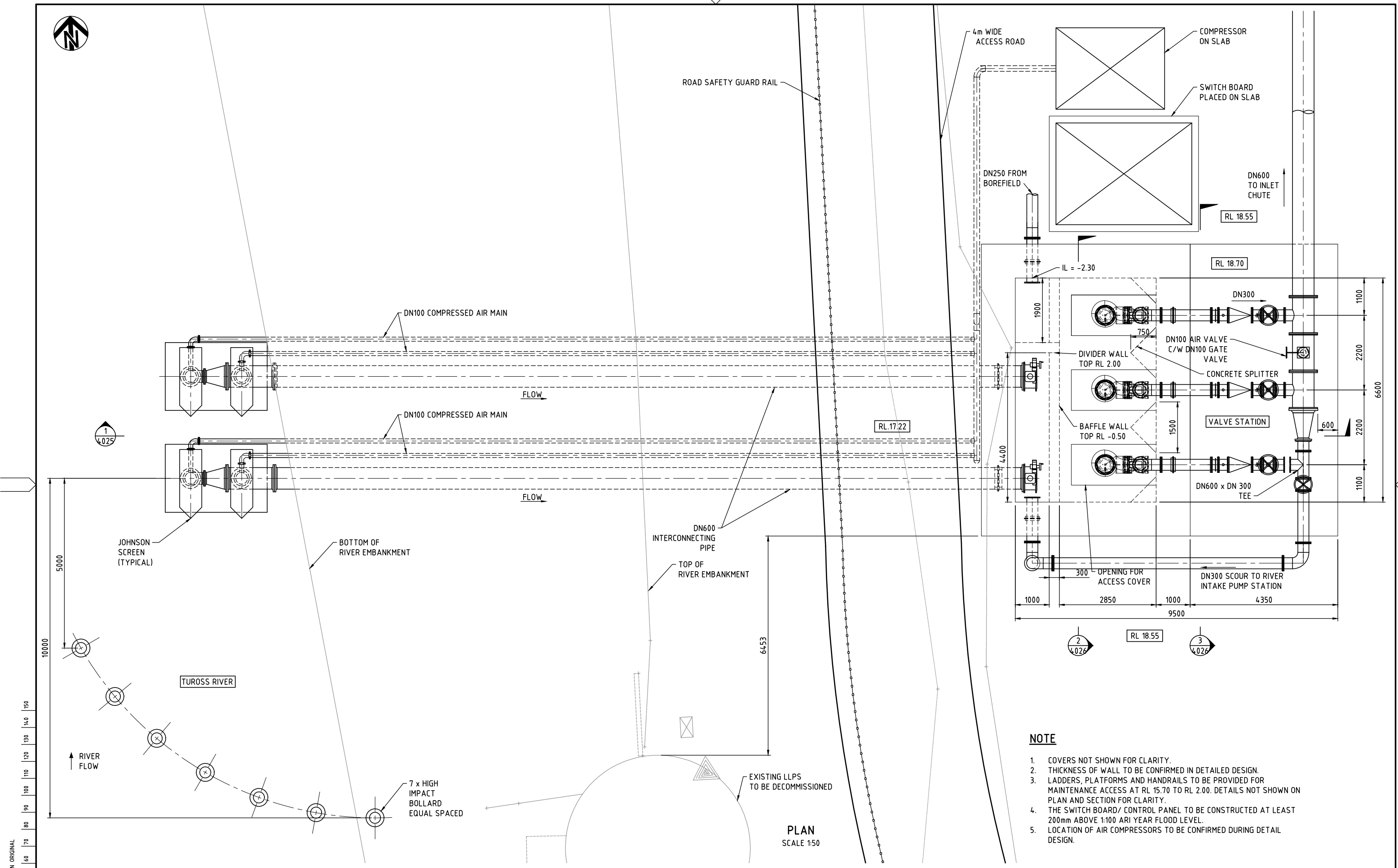
DESIGNER

CLIENT

PROJECT TITLE
EUROBODALLA SHIRE COUNCIL EUROBODALLA SOUTHERN STORAGE ANCILLARY WORKS STAGE 2 DN710 RISING MAIN FROM FUTURE WTP TO BIG ROCK RESERVOIR

SCALE	DRAWING STATUS	PROJECT / DRAWING No.	ISSUE
AS NOTED	CONCEPT	30012127-AW-4014	B

APPROVED _____ DATE _____



NOTE

1. COVERS NOT SHOWN FOR CLARITY.
2. THICKNESS OF WALL TO BE CONFIRMED IN DETAILED DESIGN.
3. LADDERS, PLATFORMS AND HANDRAILS TO BE PROVIDED FOR MAINTENANCE ACCESS AT RL 15.70 TO RL 2.00. DETAILS NOT SHOWN ON PLAN AND SECTION FOR CLARITY.
4. THE SWITCH BOARD/ CONTROL PANEL TO BE CONSTRUCTED AT LEAST 200mm ABOVE 1:100 ARI YEAR FLOOD LEVEL.
5. LOCATION OF AIR COMPRESSORS TO BE CONFIRMED DURING DETAIL DESIGN.

PLAN
SCALE 1:50

150 mm ON ORIGINAL

40
30
20
10
0

V:_Vault\Projects\30012127\CAD\DWG\4000_Ancillary_Works\30012127-AW-4020.dwg

16 Jun 2017 17:27:32

ISSUE	DATE	AMENDMENT / ISSUE DESCRIPTION	APPROVAL
A	3/03/2017	ISSUED FOR CONCEPT DESIGN	BB
B	16/06/2017	ISSUED FOR CONCEPT DESIGN	CP

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PROJECT MANAGER	D.EVANS
PROJECT DIRECTOR	B.TILBURY

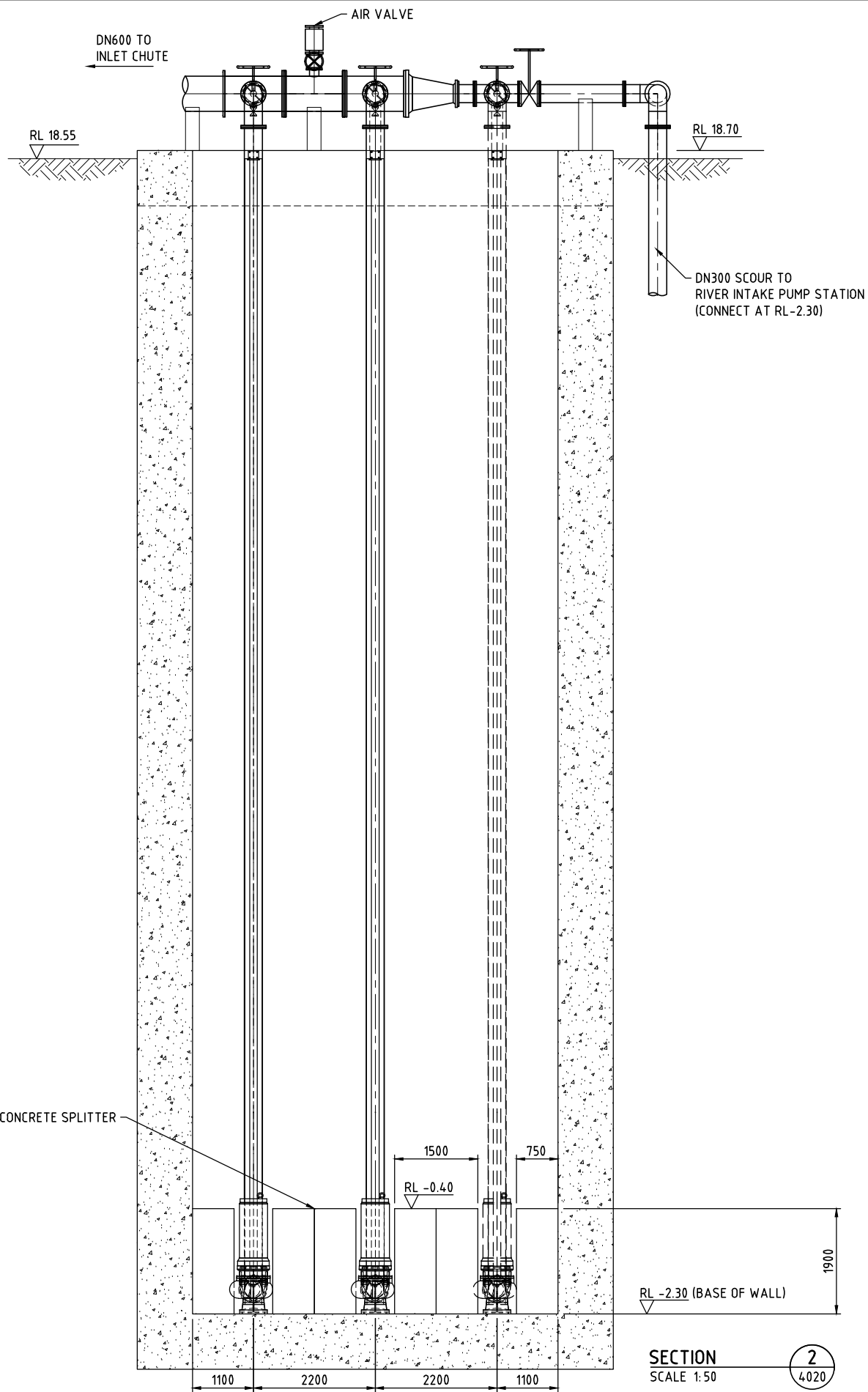
SCALES AT A1 SIZE DRAWING	
SCALE 1:50	

DESIGNER

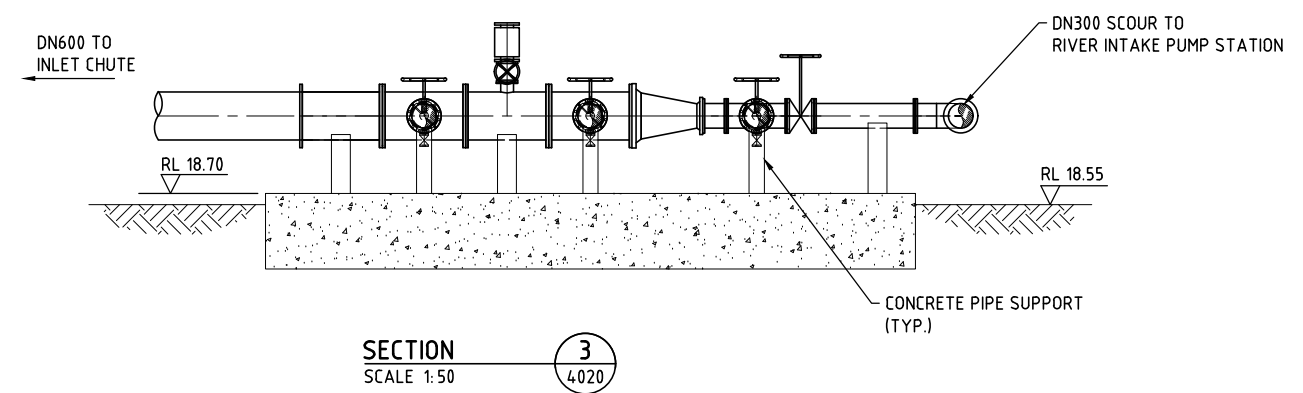
CLIENT

APPROVED	DATE

PROJECT TITLE			
EUROBODALLA SHIRE COUNCIL EUROBODALLA SOUTHERN STORAGE ANCILLARY WORKS RIVER INTAKE PUMP STATION PLAN			
SCALE	DRAWING STATUS	PROJECT / DRAWING No.	ISSUE
AS NOTED	CONCEPT	30012127-AW-4020	B



SECTION 2
SCALE 1:50



SECTION 3
SCALE 1:50

NOTE
1. ACCESS COVER NOT SHOWN FOR CLARITY

150 mm ON ORIGINAL


150
140
130
120
110
100
90
80
70
60
50
40

V:_Vault\Projects\30012127\CAD\DWG\4000_Ancillary_Works\30012127-AW-4026.dwg

16 Jun 2017 17:27:47

ISSUE	DATE	AMENDMENT / ISSUE DESCRIPTION	APPROVAL
A	3/03/2017	ISSUED FOR CONCEPT DESIGN	BB
B	16/06/2017	ISSUED FOR CONCEPT DESIGN	CP

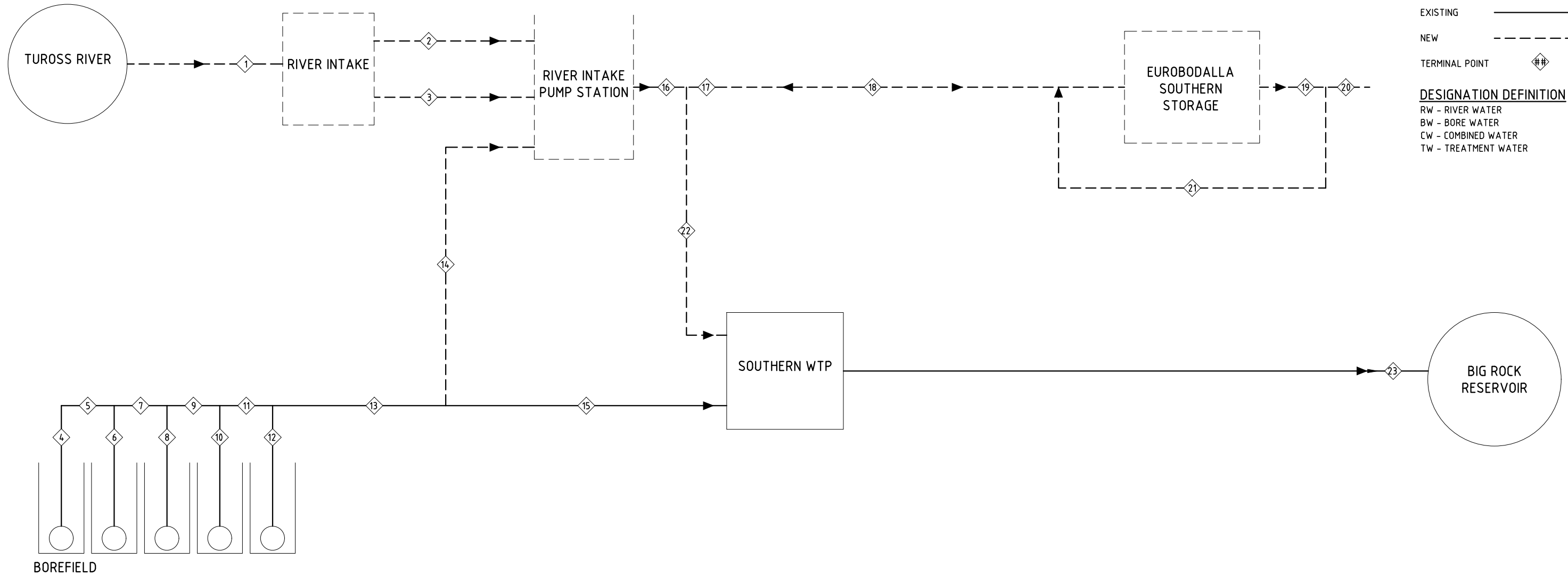
TITLE	NAME
DRAFTSMAN	S.BROMFIELD
DRAFTING CHECK	C.PURSS
DESIGNER	A.TING/B. PALIDWAR
DESIGN CHECK	H. VAN. RHIJN
PROJECT MANAGER	D.EVANS
PROJECT DIRECTOR	B.TILBURY

SCALES AT A1 SIZE DRAWING	
DESIGNER	 Member of the Surbana Jurong Group

CLIENT	
	

PROJECT TITLE	
EUROBODALLA SHIRE COUNCIL EUROBODALLA SOUTHERN STORAGE ANCILLARY WORKS RIVER INTAKE PUMP STATION SECTIONS SHEET 2 OF 2	

SCALE	DRAWING STATUS	PROJECT / DRAWING No.	ISSUE
AS NOTED	CONCEPT	30012127-AW-4026	B



LEGEND

EXISTING

NEW

TERMINAL POINT

DESIGNATION DEFINITION

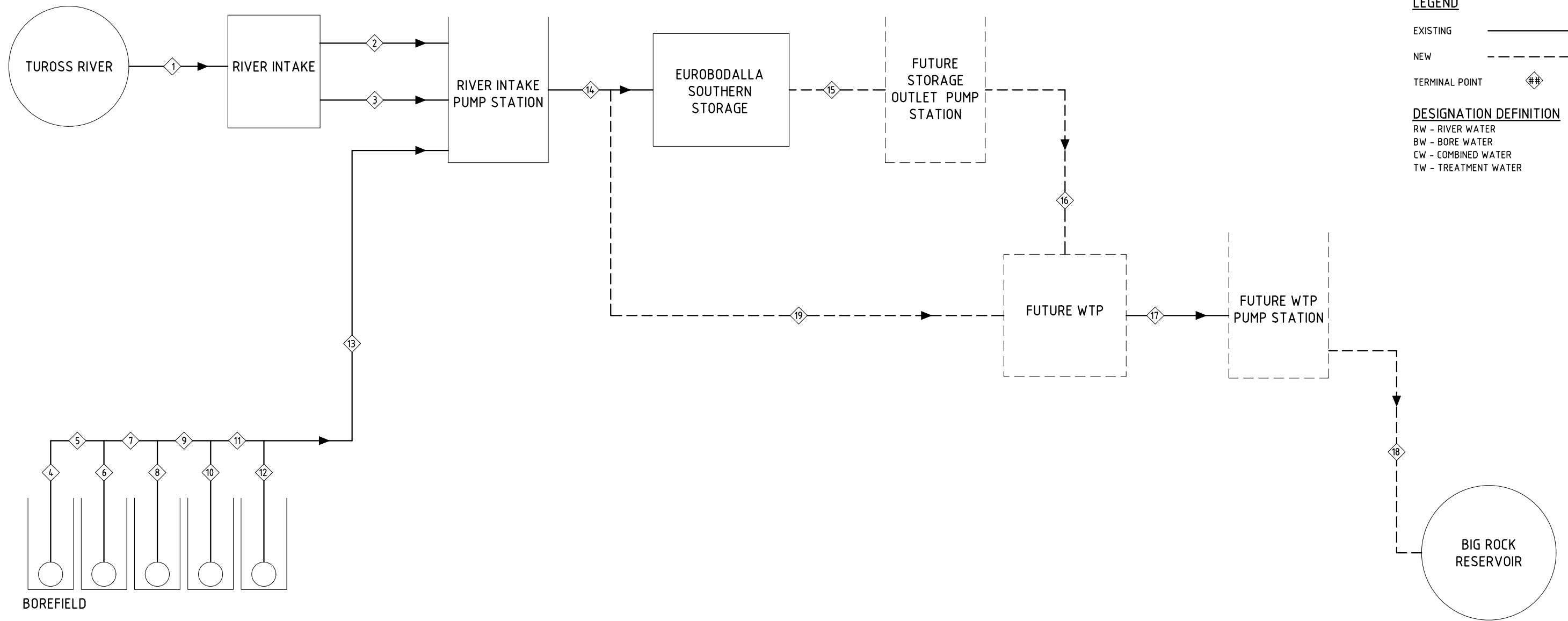
RW - RIVER WATER
 BW - BORE WATER
 CW - COMBINED WATER
 TW - TREATMENT WATER

TERMINAL PT				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
DESIGNATION		SYMBOL	UNIT	RW	RW	RW	BW	BW	BW	BW	BW	BW	BW	BW	BW	BW	BW	BW	CW	CW	CW	CW	CW	CW	CW	TW	
FLOWRATE	MAX	Q	L/s	N/A	151	151	35	35	25	60	30	90	35	125	25	125	125	125	302	302	302	320	320	70	70	105	
	NORM			302	N/A	N/A	30	30	20	50	25	70	30	70	20	70	70	70	70	70	70	70	320	320	70	70	85
	MIN			12	12	12	23	12	16	12	20	12	20	12	23	12	12	12	16	12	12	12	12	65	65	65	45
HOURS OF OPERATION	NORM	t	Hrs	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	
	TEMPERATURE																										
PRESSURE	MAX	P	kPa	242.05	242.05	242.05	--	--	--	--	--	--	--	--	--	--	--	--	750	750	750	615	615	615	500	1400	
	NORM			111.38	111.38	111.38	774.53	774.53	745.11	745.11	725.51	725.51	676.49	676.49	549.03	549.03	549.03	549.03	745	745.00	745	--	--	--	157	1353	
	MIN			101.30	101.30	101.30	--	--	--	--	--	--	--	--	--	--	--	--	--	740.21	740.2	740.2	235	235	235	157	1162
DENSITY	NORM	?	kg/m ³	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
PIPE SIZE		DN	mm	N/A	600	600	100	150	100	200	100	200	100	200	100	250	250	250	710	710	710	1200	600	315	315	375	
VELOCITY	MAX	V	m/s	0.20	0.82	0.82	4.46	1.98	3.18	1.91	3.82	2.86	4.46	3.98	3.18	2.55	2.55	2.55	1.07	1.07	1.07	0.06	1.07	0.98	1.20	0.95	
	NORM			0.10	--	--	3.82	1.70	2.55	1.59	3.18	2.21	3.82	2.21	2.55	1.41	1.41	1.41	0.25	0.25	0.25	0.06	1.07	0.98	0.98	0.77	
	MIN			--	0.04	0.04	2.90	0.65	2.07	0.37	2.48	0.37	2.90	0.37	1.47	0.24	0.33	0.24	0.04	0.04	0.04	0.04	0.23	0.92	0.64	0.50	
MATERIAL				N/A	CONC	CONC	PVC	PVC	PVC	PVC	PVC	PVC	PVC	PVC	PVC	PVC	PVC	PVC	HDPE	HDPE	HDPE	STEEL	STEEL	HDPE	HDPE	AC/DICL	

V:_Vault\Projects\30012127\CAD\DWG\4000_Ancillary_Works\30012127-AW-4130.dwg 19 Jul 2017 16:21:38

<table border="1"> <tr><th>ISSUE</th><th>DATE</th><th>AMENDMENT / ISSUE DESCRIPTION</th><th>APPROVAL</th></tr> <tr><td>A</td><td>21/03/2017</td><td>ISSUED FOR CONCEPT DESIGN</td><td>BB</td></tr> <tr><td>B</td><td>16/06/2017</td><td>ISSUED FOR CONCEPT DESIGN</td><td>CP</td></tr> <tr><td>C</td><td>19/07/2017</td><td>ISSUED FOR CONCEPT DESIGN</td><td>CP</td></tr> </table>	ISSUE	DATE	AMENDMENT / ISSUE DESCRIPTION	APPROVAL	A	21/03/2017	ISSUED FOR CONCEPT DESIGN	BB	B	16/06/2017	ISSUED FOR CONCEPT DESIGN	CP	C	19/07/2017	ISSUED FOR CONCEPT DESIGN	CP	<table border="1"> <tr><th>TITLE</th><th>NAME</th></tr> <tr><td>DRAFTSMAN</td><td>S.BROMFIELD</td></tr> <tr><td>DRAFTING CHECK</td><td>C.PURSS</td></tr> <tr><td>DESIGNER</td><td>A.TING/B. PALIDWAR</td></tr> <tr><td>DESIGN CHECK</td><td>H. VAN. RHIJN</td></tr> <tr><td>PROJECT MANAGER</td><td>D.EVANS</td></tr> <tr><td>PROJECT DIRECTOR</td><td>B.TILBURY</td></tr> </table>	TITLE	NAME	DRAFTSMAN	S.BROMFIELD	DRAFTING CHECK	C.PURSS	DESIGNER	A.TING/B. PALIDWAR	DESIGN CHECK	H. VAN. RHIJN	PROJECT MANAGER	D.EVANS	PROJECT DIRECTOR	B.TILBURY	<p>SCALES AT A1 SIZE DRAWING</p>	<p>DESIGNER</p> <p>Member of the Surbana Jurong Group</p>	<p>CLIENT</p>	<p>PROJECT TITLE</p> <p>EUROBODALLA SHIRE COUNCIL EUROBODALLA SOUTHERN STORAGE ANCILLARY WORKS PROCESS FLOW DIAGRAM STAGE 1</p>
ISSUE	DATE	AMENDMENT / ISSUE DESCRIPTION	APPROVAL																																
A	21/03/2017	ISSUED FOR CONCEPT DESIGN	BB																																
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<table border="1"> <tr><th>APPROVED</th><th>DATE</th></tr> <tr><td> </td><td> </td></tr> </table>		APPROVED	DATE			<table border="1"> <tr><th>SCALE</th><th>DRAWING STATUS</th><th>PROJECT / DRAWING No.</th><th>ISSUE</th></tr> <tr><td>AS NOTED</td><td>CONCEPT</td><td>30012127-AW-4130</td><td>C</td></tr> </table>	SCALE	DRAWING STATUS	PROJECT / DRAWING No.	ISSUE	AS NOTED	CONCEPT	30012127-AW-4130	C																					
APPROVED	DATE																																		
SCALE	DRAWING STATUS	PROJECT / DRAWING No.	ISSUE																																
AS NOTED	CONCEPT	30012127-AW-4130	C																																

150 mm ON ORIGINAL



LEGEND
 EXISTING ———
 NEW - - - - -
 TERMINAL POINT ◊

DESIGNATION DEFINITION
 RW - RIVER WATER
 BW - BORE WATER
 CW - COMBINED WATER
 TW - TREATMENT WATER

TERMINAL PT				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
DESIGNATION		SYMBOL	UNIT	RW	RW	RW	BW	BW	BW	BW	BW	BW	BW	BW	BW	BW	CW	CW	CW	TW	TW	CW
FLOWRATE	MAX	Q	L/s	N/A	151	151	35	35	25	60	30	90	35	125	25	125	302	320	320	302	302	302
	NORM			302	N/A	N/A	30	30	20	50	25	69	30	69	20	70	302	302	302	302	302	302
	MIN			12	12	12	23	16	16	16	20	16	23	16	12	16	65	65	65	65	65	65
HOURS OF OPERATION	NORM	t	Hrs	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
TEMPERATURE	MAX	T	°C	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28
	NORM			20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
	MIN			10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
PRESSURE	MAX	P	kPa	242.05	242.05	242.05	--	--	--	--	--	--	--	--	--	--	750	615	600	200	1500	750
	NORM			111.38	111.38	111.38	774.53	774.53	745.11	745.11	725.51	725.51	676.49	676.49	549.03	549.03	745	615	560	180	1420	745
	MIN			101.30	101.30	101.30	--	--	--	--	--	--	--	--	--	--	--	740.21	235.30	540	160	1275
DENSITY	NORM	?	kg/m ³	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
PIPE SIZE		DN	mm	N/A	600	600	100	150	100	200	100	200	100	200	100	250	710	1200	710	600	710	710
VELOCITY	MAX	V	m/s	1.20	0.82	0.82	4.46	1.98	3.18	1.91	3.82	2.86	4.46	3.98	3.18	2.55	1.07	0.06	1.07	1.07	1.07	1.07
	NORM			0.90	--	--	3.82	1.70	2.55	1.59	3.18	2.21	3.82	2.21	2.55	1.02	1.07	0.06	1.07	1.07	1.07	1.07
	MIN			--	0.04	0.04	2.90	0.92	2.07	0.52	2.48	0.52	2.90	0.52	1.47	0.33	0.23	0.01	0.23	0.23	0.23	0.23
MATERIAL				N/A	CONC	CONC	PVC	PVC	PVC	PVC	PVC	PVC	PVC	PVC	PVC	PVC	HDPE	STEEL	HDPE	DICL	HDPE	HDPE



150 mm ON ORIGINAL

V:_Vault\Projects\30012127\CAD\DWG\4000_Ancillary_Works\30012127-AW-4131.dwg

25 Jul 2017 15:38:11

ISSUE	DATE	AMENDMENT / ISSUE DESCRIPTION	APPROVAL
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PROJECT DIRECTOR	B.TILBURY

DESIGNER	CLIENT
 Member of the Surbana Jurong Group	

PROJECT TITLE	SCALE	DRAWING STATUS	PROJECT / DRAWING No.	ISSUE
EUROBODALLA SHIRE COUNCIL EUROBODALLA SOUTHERN STORAGE ANCILLARY WORKS PROCESS FLOW DIAGRAM STAGE 2	AS NOTED	CONCEPT	30012127-AW-4131	C

APPROVED	DATE