

ROCKHAMPTON REGIONAL COUNCIL

APPROVED PLANS

These plans are approved subject to the current conditions of approval associated with

Development Permit No.: D/118-2022

Dated: 4 November 2022

LEGEND

	CADASTRAL APPROXIMATION PROVIDED BY AAM HATCH
	ALTON DOWNS CORRIDOR APPROXIMATION
	SGIC CORRIDOR APPROXIMATION
	ALIGNMENT BASED ON CORRIDOR APPROXIMATION
	EASEMENT BOUNDARIES APPROXIMATION PROVIDED BY AAM HATCH
	PROPERTY DESCRIPTION
	COMBINATION AIR VALVE - REFER DWG 0207 FOR DETAILS
	SURGE PROTECTION AIR VALVE - REFER DWG 0207 FOR DETAILS
	SCOUR VALVE - REFER DWG 0208 FOR DETAILS
	ISOLATION VALVE - REFER DWG 0211 FOR DETAILS
	FUTURE CONNECTION - REFER DWG 0202 FOR DETAILS
	CONSTRUCTION ACCESS FROM EXISTING ROAD
	NEW PERMANENT ACCESS
	TEMPORARY CONSTRUCTION ACCESS

NOTE

1. FOR SMEC'S DISCLAIMER REFER DRAWING 30032687-DWG-32000-G-0112

NOT FOR CONSTRUCTION

DRAWING FILE LOCATION / NAME
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PLOT DATE
06 Jul 2022

TIME
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SR 30032487_GFP_Aerial Image
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REV	DATE	AMENDMENT / REVISION DESCRIPTION
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B	14.01.22	CONCEPT DESIGN-ECI PHASE
C	27.05.22	OPTIMISED CONCEPT DESIGN

WVR No	APPROVAL	TITLE	NAME
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006	MSL	DRAFTING CHECK	J.HAYDON
006	MSL	DESIGNER	M.SERRANO LOPEZ
		DESIGN CHECK	J.WAGENAAR
		PROJECT MANAGER	M.SERRANO LOPEZ
		PROJECT DIRECTOR	A.ZANETTI

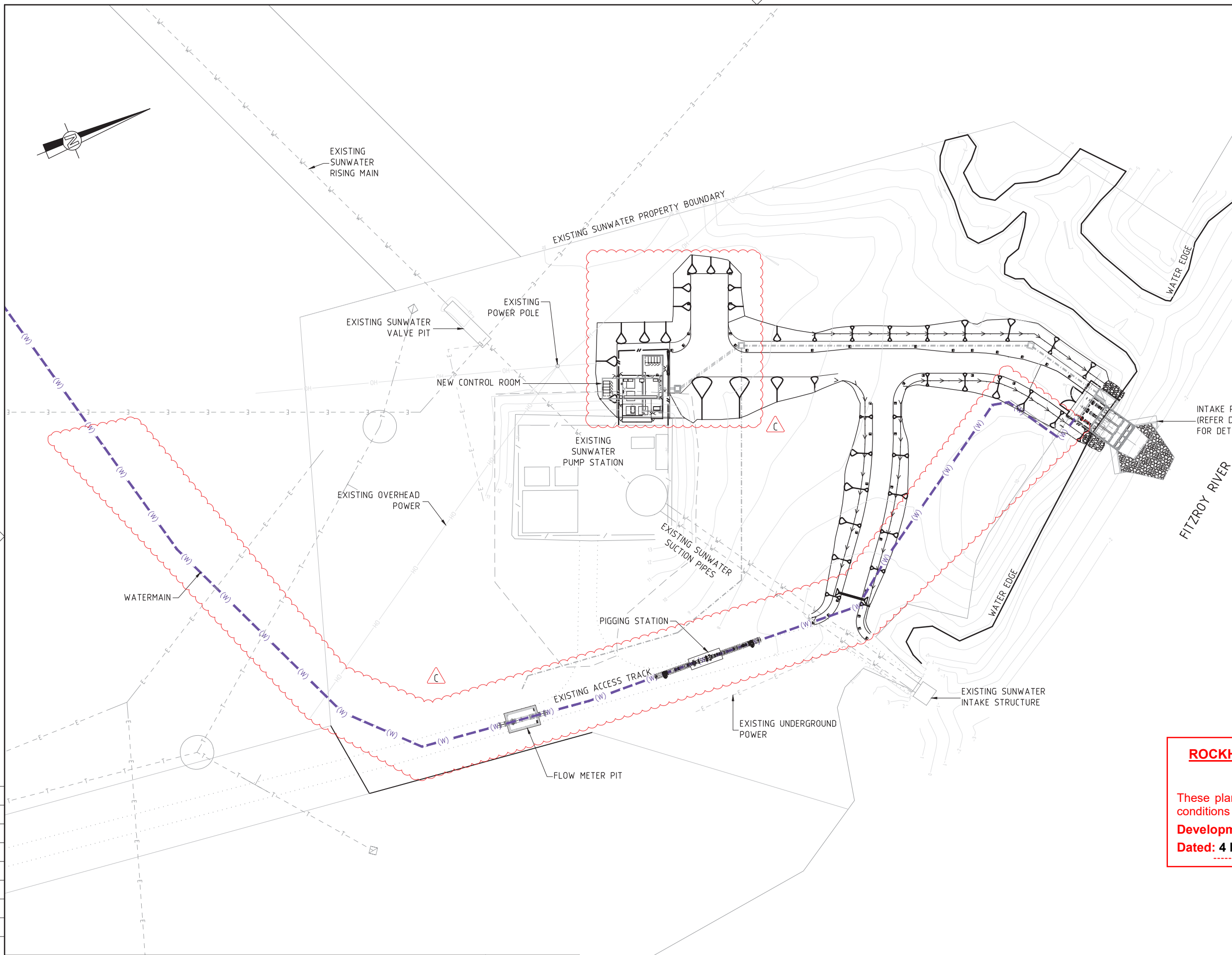
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DESIGNER
Member of the Surlana Jurong Group
© ABN 47 065 475 149
LEVEL 6, 480 ST PAULS TERRACE
FORTITUDE VALLEY QLD 4006
SMEC PROJECT No 30032687

CLIENT
Gladstone Area Water Board

PROJECT TITLE	GLADSTONE - FITZROY PIPELINE PROJECT 30GLA - ALTON DOWNS TO RAGLAN PIPELINE
LAYOUT PLAN	CHO TO CH2500
SHEET 1	
SCALE	15000
PHASE	CONCEPT DESIGN
PROJECT / DRAWING No	30032687-DWG-34100-C-4018
REVISION	C

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 - TYPE 'ER2' EDGE RESTRAINT (REFER IPWEAQ STD DWG R-0080)
 - ROAD EDGE GUIDE POSTS (REFER MR STD DWG 1356)
 - TOP OF BATTER
 - TOE OF BATTER
 - SWALE DRAIN
 - 1.8m HIGH SECURITY FENCE
 - EXISTING SECURITY FENCE
 - EXISTING WATERMAIN
 - UNDERGROUND ELECTRICITY
 - OVERHEAD ELECTRICITY
 - CONDUIT
 - TELSTRA

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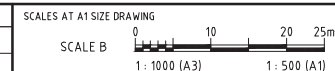
Dated: 4 November 2022

NOTE

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X_36100_CTRL_BUILDING_WALLS		C	06.07.22	CONCEPT DESIGN	006	MSL	DESIGNER	A.SYMONS
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X_SITE_EXISTING							PROJECT MANAGER	M.SERRANO LOPEZ
X_36100_INTAKE_PIPE_PLAN							PROJECT DIRECTOR	A.ZANETTI
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DESIGNER

SMEC

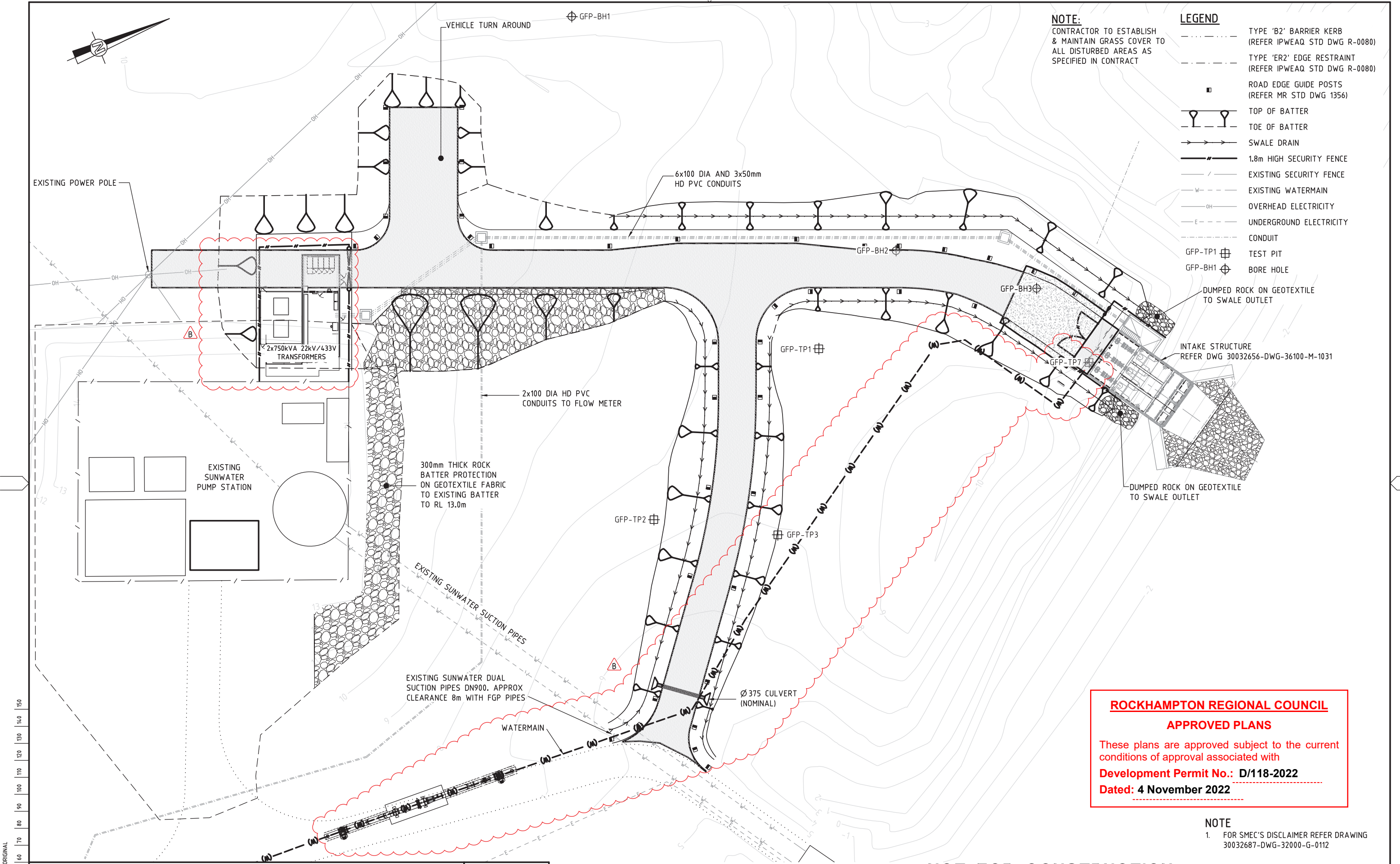
Member of the Surbana Jurong Group
© ABN 47 065 475 149

LEVEL 6, 480 ST PAULS TERRACE
FORTITUDE VALLEY QLD 4006
SMEC PROJECT No 30032687

CLIENT

Gladstone Area Water Board

PROJECT TITLE			
GLADSTONE - FITZROY PIPELINE PROJECT 30GLA - INTAKE PUMP STATION OVERALL LAYOUT PLAN			
SCALE	PHASE	PROJECT / DRAWING No.	REVISION
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- NOTE:**
CONTRACTOR TO ESTABLISH & MAINTAIN GRASS COVER TO ALL DISTURBED AREAS AS SPECIFIED IN CONTRACT
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 - TYPE 'ER2' EDGE RESTRAINT (REFER IPWEAQ STD DWG R-0080)
 - ROAD EDGE GUIDE POSTS (REFER MR STD DWG 1356)
 - TOP OF BATTER
 - TOE OF BATTER
 - SWALE DRAIN
 - 1.8m HIGH SECURITY FENCE
 - EXISTING SECURITY FENCE
 - EXISTING WATERMAIN
 - OVERHEAD ELECTRICITY
 - UNDERGROUND ELECTRICITY
 - CONDUIT
 - GFP-TP1 TEST PIT
 - GFP-BH1 BORE HOLE
 - DUMPED ROCK ON GEOTEXTILE TO SWALE OUTLET
 - INTAKE STRUCTURE REFER DWG 30032656-DWG-36100-M-1031
 - DUMPED ROCK ON GEOTEXTILE TO SWALE OUTLET

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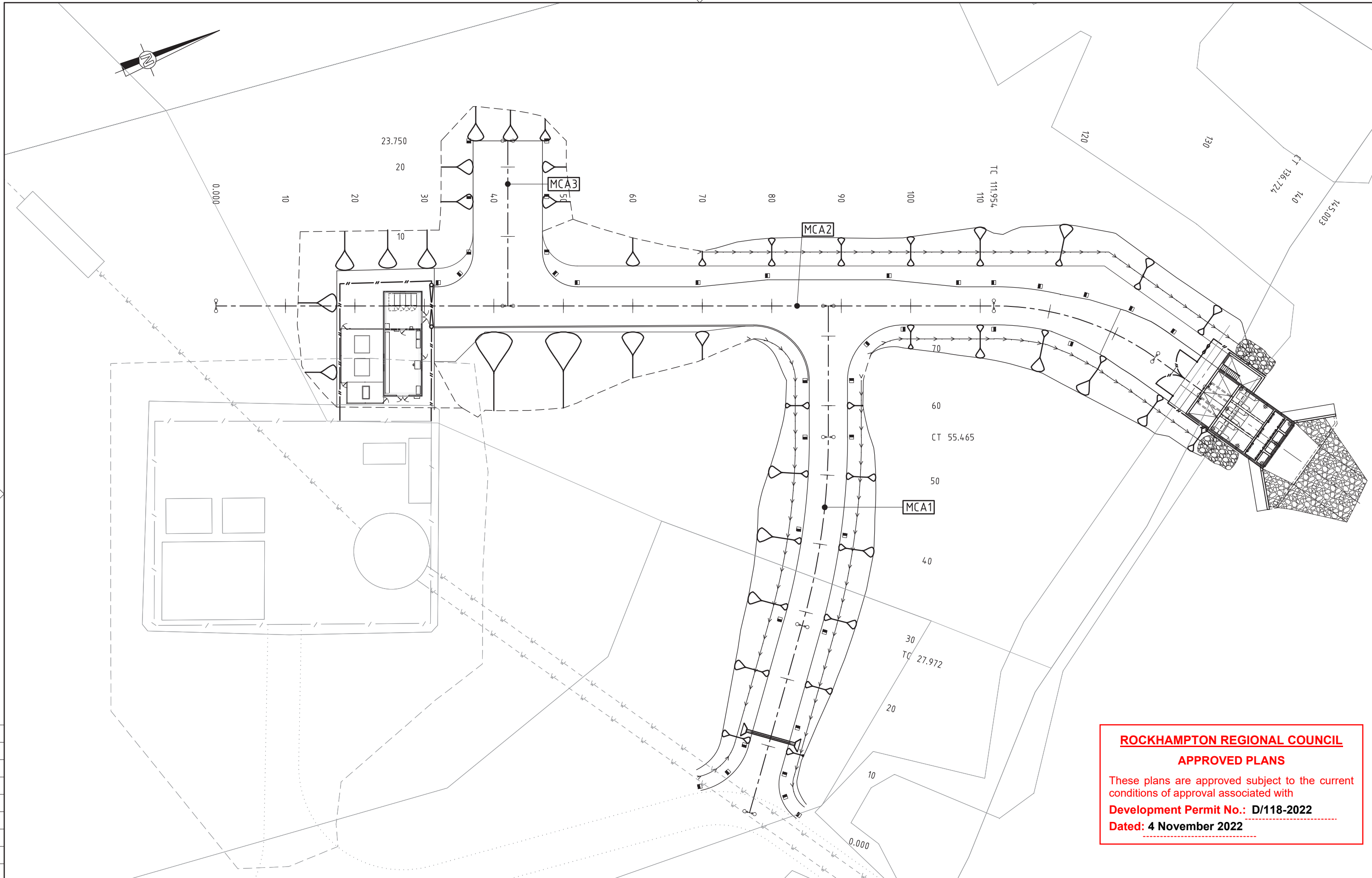
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1. FOR SMEC'S DISCLAIMER REFER DRAWING 30032687-DWG-32000-G-0112

NOT FOR CONSTRUCTION



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X_36100_INTAKE_STRUCTURE							
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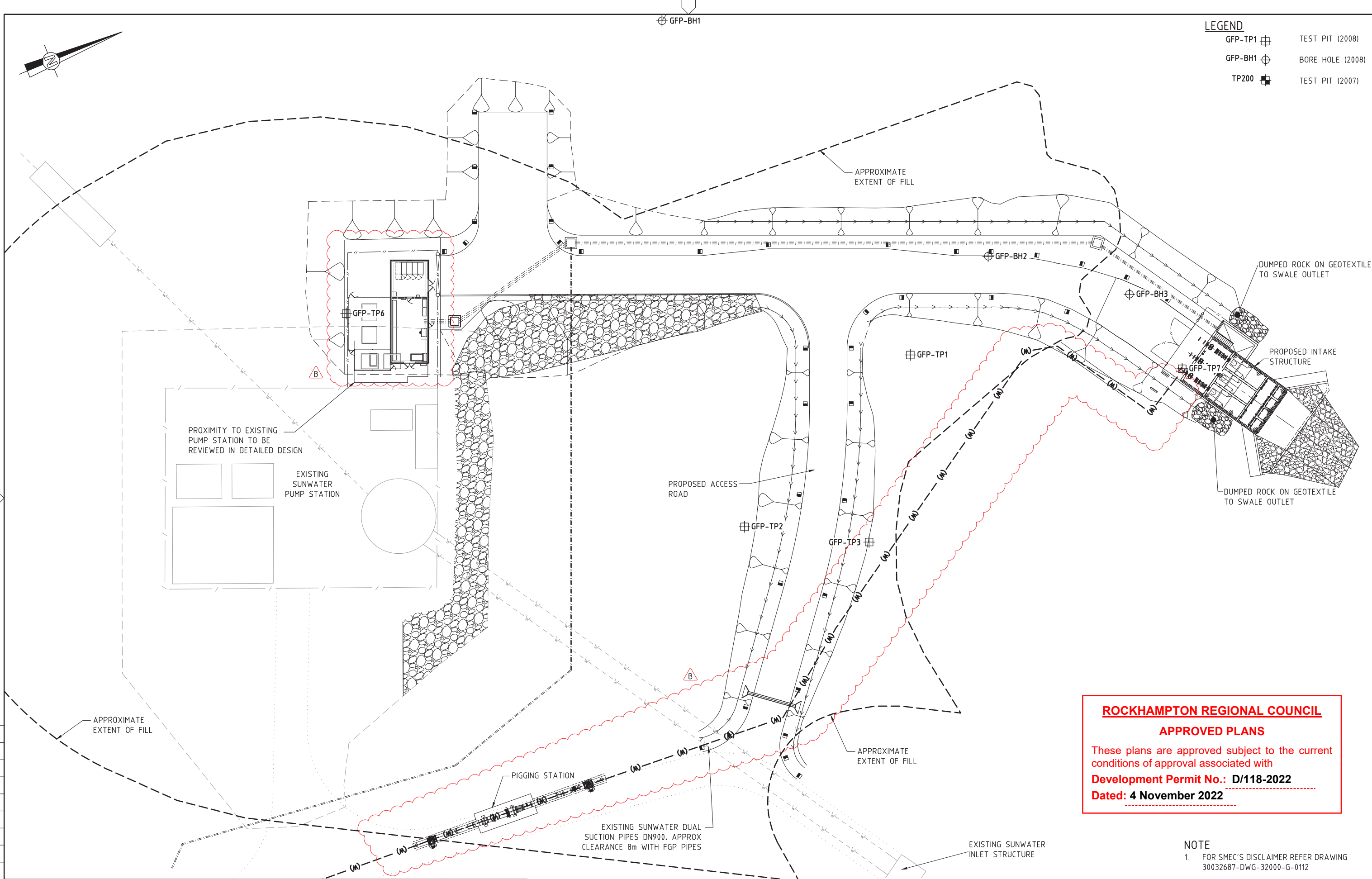
ROCKHAMPTON REGIONAL COUNCIL
APPROVED PLANS
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DRAWING FILE LOCATION / NAME V:_Vault\Projects\3003\30032687\GFP-GE Project\110_CADD\CAD\DWG\01 30 GL\36100 FITZROY INTAKE & PUMP STATION\30032687-DWG-36100-C-1050.dwg					PLOT DATE 06 Jul 2022		TIME 18:25:27															
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											DRAFTING CHECK R.STAAL											
											DESIGNER S.CUNNINGHAM											
											DESIGN CHECK M.MAY											
											PROJECT MANAGER											
											PROJECT DIRECTOR											
																SCALE 1:250			PHASE CONCEPT DESIGN		PROJECT / DRAWING No. 30032687-DWG-36100-C-1050	

150 mm ON ORIGINAL

A1



LEGEND	
GFP-TP1	TEST PIT (2008)
GFP-BH1	BORE HOLE (2008)
TP200	TEST PIT (2007)

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DRAWING FILE LOCATION / NAME V:_Vault\Projects\3003\30032687\GFP-OE Project\110_CADD\CAD\DWG\0130 GL\36100 FITZROY INTAKE & PUMP STATION\30032687-DWG-36100-U-1090.dwg				PLOT DATE 11 Jul 2022		TIME 10:33:56		NOT FOR CONSTRUCTION											
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Memorandum

To	Kristine Palm	Date	6 July 2022
From	Rasitha Perera, Reviewer: David Cox	No. of pages	1 of 7
Reference	30032687-CVL-MEM-Flood Modelling Intake		
Subject	Flood Impact Assessment – Pump Station Intake and New Access Road		

1. Background

The Reference Design for the Gladstone to Fitzroy Pipeline (GFP 2008) is based on a pipeline that connects a new intake pump station in the Fitzroy River (upstream of Rockhampton) to new reservoirs at Aldoga (West of Gladstone) via Alton Downs water treatment plant (WTP).

The combined river intake and pump station is to be located on the bank of the Fitzroy River approximately 15.5 km upstream of the Fitzroy River Barrage and within the existing SunWater Stanwell pump station site. The pump station is to deliver water to a water treatment plant at Alton Downs. The controls and electricals for the pump station are situated in a separate control building (see Figure 1), which currently sits above the 100-year level in the Fitzroy River.



Figure 1: SunWater Stanwell pump station site

The pumping station involves a combined river intake structure of reinforced concrete construction with access walkways and platforms, and incorporating separate wet chambers for each pump, and variable depth inlet ports.

RRC have requested a Flood Statement to be provided for the Fitzroy River Intake and new access work. The Flood Statement is to be signed off by a RPEQ and is to identify / confirm no impacts on downstream or upstream properties and up to the 1% AEP (100-year ARI) event as a result of the proposed.

Accordingly, the purpose of this memorandum is to address RRC's request in terms of the current proposed designs.

2. Information Received

2.1 Reference Design (2008)

The Fitzroy River has very low velocities during low-flow periods and water levels are fairly constant. The water levels are controlled by the Fitzroy River Barrage downstream at Rockhampton, and upstream of the site by other weirs. It has been assumed that during periods of low-flow, the river takes on the behaviour of a dam.

The existing one in one hundred-year ARI (Q100 or 1% AEP) Fitzroy River flood level has an elevation of approximately 13m AHD at the pump station site. In comparison, the existing SunWater pump station control room is at an elevation of 13.9m AHD. As such, the existing control room satisfies the Reference Design (2008); the control room shall be sited at not less than 0.5 metres above the 1% AEP flood level.

The top of the intake pump station has been designed to 6.5m AHD which is approximately top of bank level. Consequently, during some flood events the station will be submerged. Intake structure design for:

- Pump Start Level (TWL) RL 3.7m AHD
- Pump Stop Level (BWL) RL 2.00m AHD

2.2 Flood Model – Fitzroy River (TMR) (2022)

SMEC received a TUFLOW flood model from the Department of Transport and Main Roads to facilitate with RRC's approvals processes. It is believed that this model was developed for TMR's Rockhampton Ring Road project and has been extensively peer reviewed. SMEC have not undertaken an independent review of the received model as part of the current assessment and the only changes to the model will be topographic changes necessary to assess the proposed access road works. The 8m grid cell version of TMR's model will provide the baseline for the current flood impact assessment and the deliverables will include peak flood depth, peak flood velocity, peak flood hazard and peak flood afflux mapping. The 2% AEP (1 in 50 year ARI), 1% AEP (1 in 100 year ARI) and the 0.05% AEP (1 in 2000 year ARI) flood events will be modelled.

2.3 Concept Design (2021)

As mentioned earlier, the building which houses controls and electricals for the pump station currently sits above an elevation of 13.9m AHD (see Figure 1). It is understood however that the existing building is to be relocated slightly and lowered to 13.5m AHD. These proposed amendments have been included as part of the current assessment.

2.4 CFD Intake and Access Road (2022)

The top of the pump station intake has been designed to 6.5m AHD which is approximately top of bank level. This information, together with the details for the proposed access road provided in Appendix A, were developed by SMEC designers into a new 12D Tin and was relied upon to complete the assessment. Figure 2 provides plan and section views of the proposed access road elevation leading up to the pump station control building. With reference to the section view, note that the pump station intake structure, by design, can be expected to regularly submerge. Hence, the impact of it on overbank flood levels are expected to be fairly low.

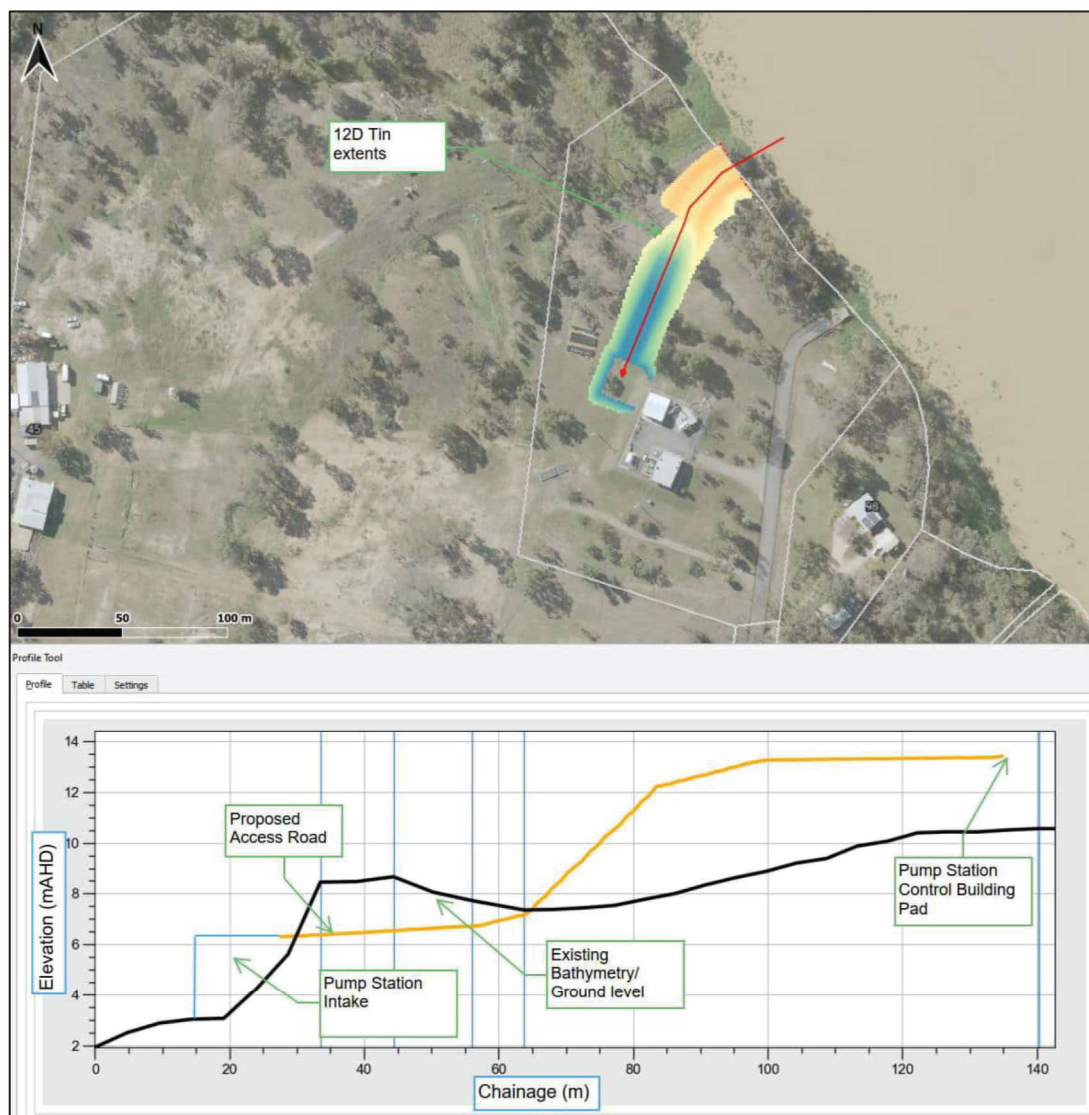


Figure 2: 12D Tin developed for the assessment

3. Flood Model Assessment

A detailed hydraulic analysis was undertaken using TMR's flood model to accurately simulate flooding behaviour in the area of Fitzroy River and specifically around the existing SunWater Stanwell pump station site. Both existing and design cases were modelled, with the proposed new arrangement of the pump station control building included in the existing case model.

The proposed access road was also modelled, with geometric details based on the drawings provided in Appendix A and using model topographic modifiers, which is standard industry practice. No other changes were made to the flood model.

The model was then run for the specified design events and modelled depths, velocities and flood hazards were extracted. Figures showing the flood depths for the 2% AEP, 1% AEP and the 0.05% AEP, and flood velocity and hazard (velocity – depth product) for the 1% AEP are provided in Figure 3 to Figure 7 below.

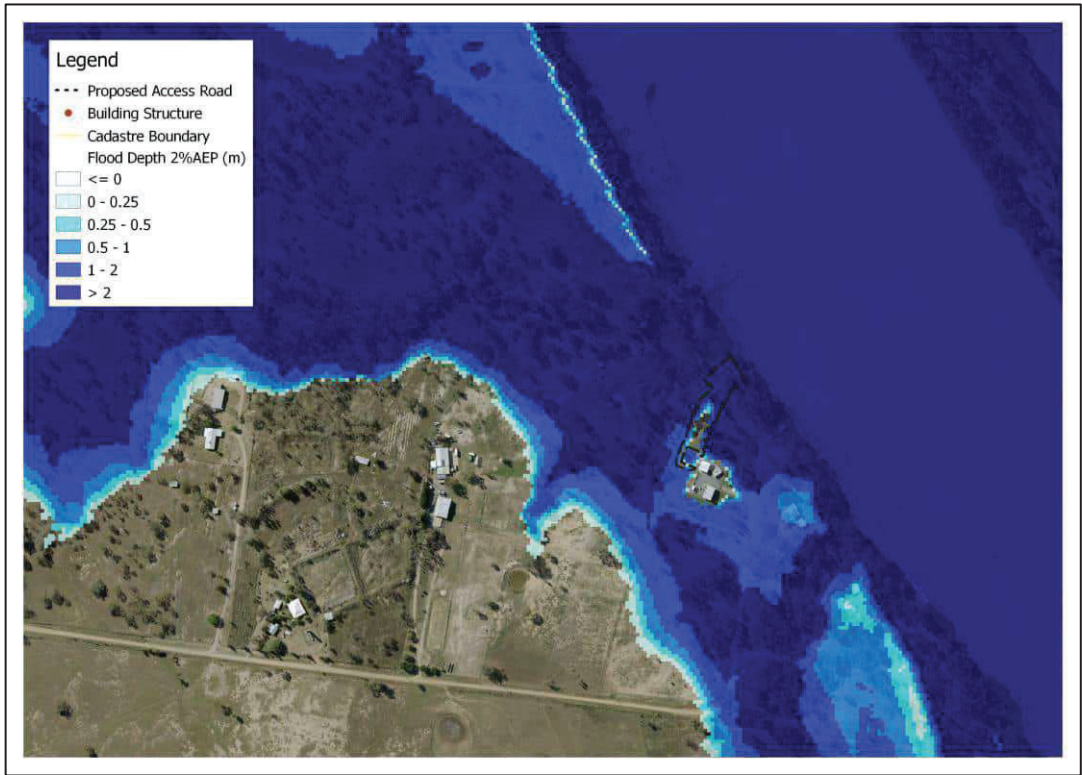


Figure 3: Modelled Depth – 2% AEP Event

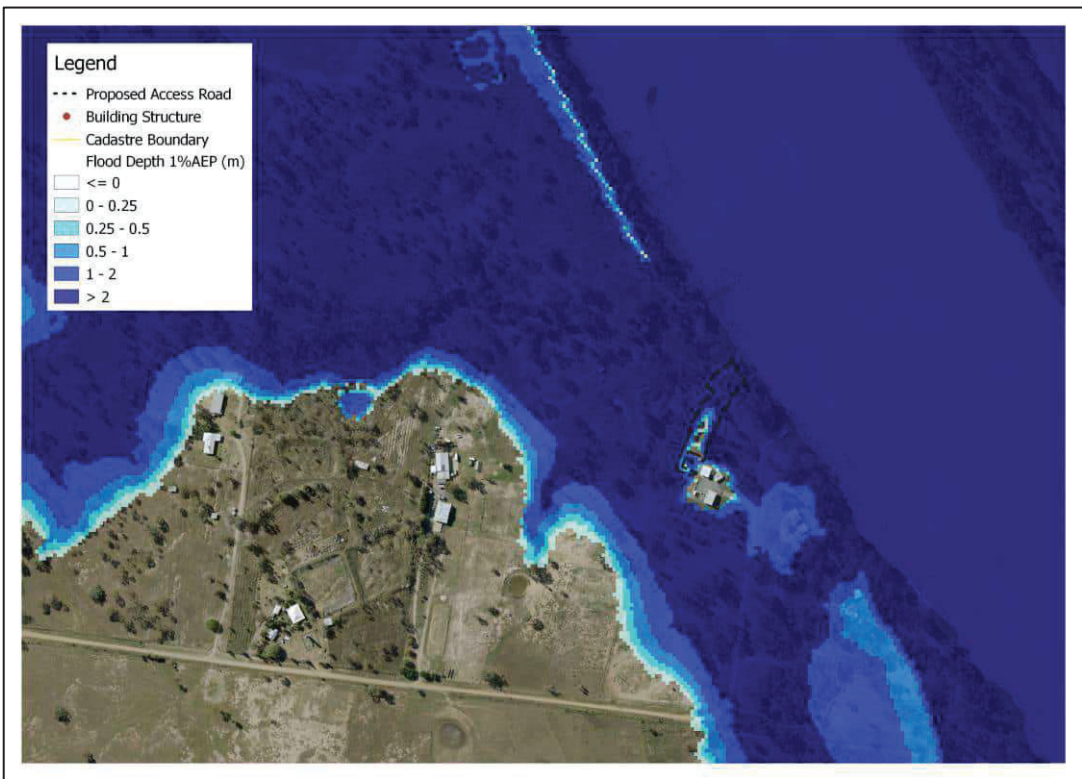


Figure 4: Modelled Depth – 1% AEP Event

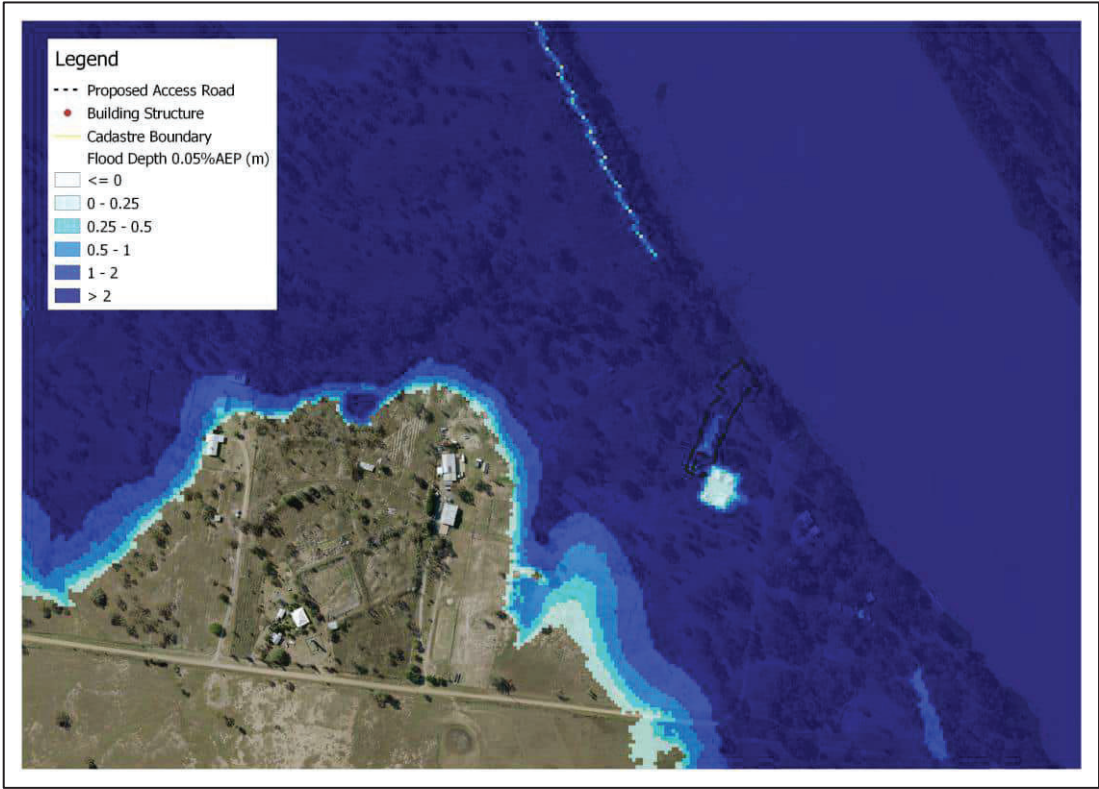


Figure 5: Modelled Depth – 0.05% AEP Event

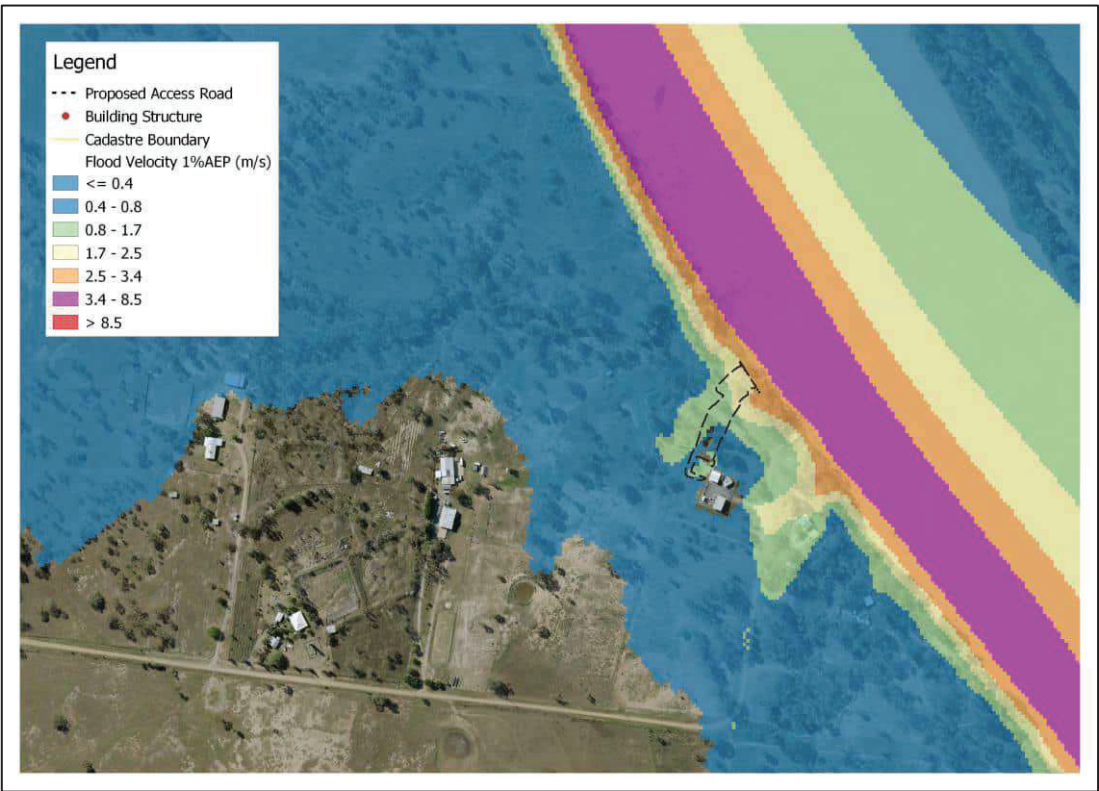


Figure 6: Modelled Velocity – 1% AEP Event

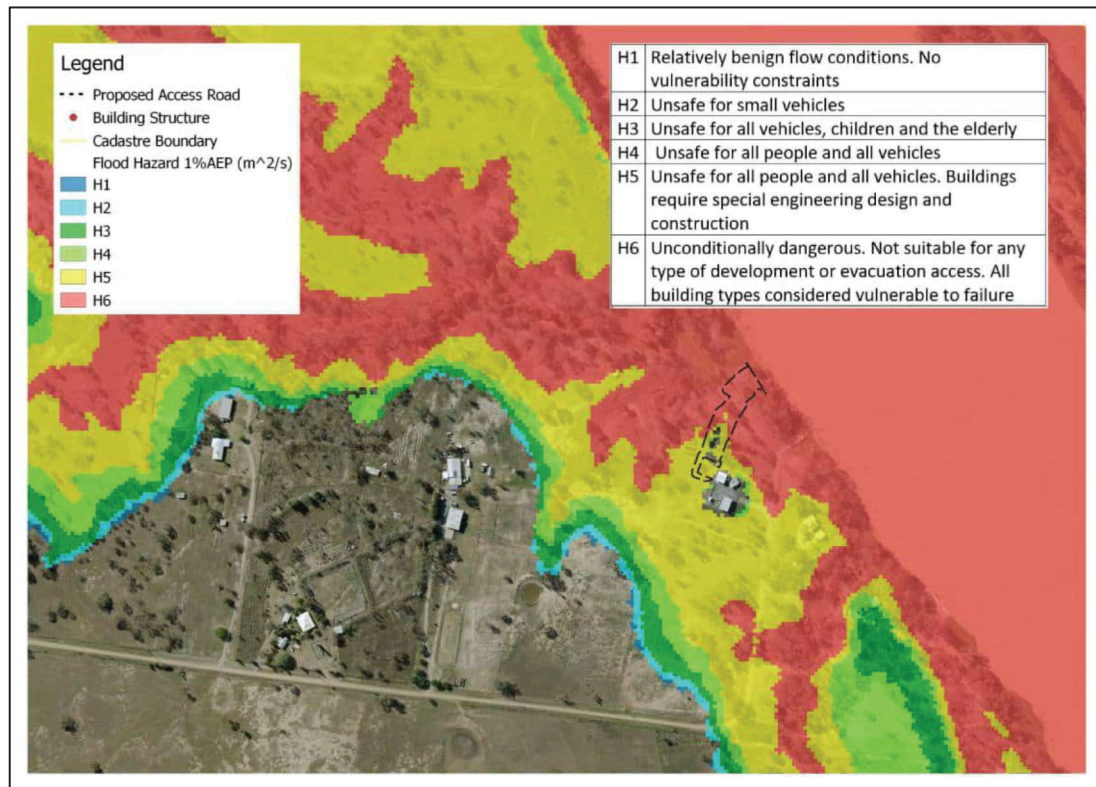


Figure 7: Modelled Hazard – 1% AEP Event

The above results indicate that while both the pump station intake and the proposed access road is subject to significant inundation for all modelled flood events, the pump station control building remains flood free up to the 1% AEP (Q100) event and therefore meets the Reference Design (2008) requirements. Flooded depths over the road on the other hand are in excess of 2m and hence represents a high flood hazard situation for both people and vehicles.

Table 1: Design Case Flood Afflux Results for Buildings

Building Loc ID	Existing WSL (m AHD)			Afflux (m)			Building Loc ID	Existing WSL (m AHD)			Afflux (m)		
	0.05% AEP	1% AEP	2% AEP	0.05% AEP	1% AEP	2% AEP		0.05% AEP	1% AEP	2% AEP	0.05% AEP	1% AEP	2% AEP
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2	13.534	-	-	-	-	-	20	-	-	-	-	-	-
3	-	-	-	-	-	-	21	14.202	12.907	12.497	0.002	-	-
4	13.515	11.974	11.577	-	-	-	22	14.202	-	-	0.002	-	-
5	13.737	12.208	11.823	-	-	-	23	-	-	-	-	-	-
6	13.904	12.689	-	-	-	-	24	-	-	-	-	-	-
7	13.916	-	-	-	-	-	25	-	-	-	-	-	-
8	13.957	-	-	-	-	-	26	-	-	-	-	-	-
9	13.964	-	-	-	-	-	27	-	-	-	-	-	-
10	13.970	12.769	-	-	-	-	28	14.202	-	-	0.002	-	-
11	14.148	-	-	-	-	-	29	14.202	-	-	0.002	-	-
12	14.234	12.859	12.438	-	-	-	30	14.202	-	-	0.002	-	-
13	14.267	12.869	12.446	-	-	-	31	14.202	-	-	0.002	-	-
14	14.330	12.917	12.482	-	-	-	32	14.202	-	-	0.002	-	-
15	14.201	12.884	12.462	-	-	-	33	14.202	-	-	0.002	-	-
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Analysis was also undertaken to determine if the flood impacts from the proposed pump station intake, access road, and pump station control building pad represented a worsening when compared to the existing case. For this analysis, model results for a total of 35 reporting locations covering building structures in and around the Pump Station Intake and in the general vicinity of the proposed site were extracted and tabulated. These are presented in Table 1 and shows that for the 2% AEP and 1% AEP events, the proposed designs will result in negligible changes to existing flood levels at these locations. Flood afflux mapping covering a larger extent of the Fitzroy River catchment is provided in Appendix B. This mapping shows that the flood affluxes are localised to within the proposed site.

4. Conclusions

At the request of the Gladstone Area Water Board (GWAB) managing the ongoing Gladstone – Fitzroy Pipeline project, a hydraulic investigation of Fitzroy River has been undertaken to analyse and quantify flood impacts in the watercourse floodplain area at and around the SunWater Stanwell pump station site.

SMEC used TMR's flood model to predict flood levels and the following observations are made:

- in comparison to a predicted 1% AEP flood elevation of approximately 13m AHD, the electrical and control equipment currently situated above 13.9m AHD in the existing pump station control building should have flood immunity up to and including a 1% AEP event.
- The flood response to the proposed works area within the site was assessed, with model results indicating the proposed access road from the pump station intake to the existing pump station control building is subject to significant inundation during 2% AEP (1 in 50 year ARI), 1% AEP (1 in 100 year ARI) and the 0.05% AEP (1 in 2000 year ARI) flood events. As such, it is recommended that flood depth sign markers are placed either side of this road, the Flood Emergency Evacuation/ Management Plan for the pump station control building be appropriately updated and other safe operational requirements for the site be implemented.
- Based on the design of the access road analysed as part of this document, increases in flood levels for the events considered (the 2% AEP and 1% AEP events) are negligible outside of the proposed site. Additionally, please refer to the flood afflux mapping provided in Appendix B.

Yours sincerely,



Rasitha Perera

Associate Engineer – Water, Dams and Hydropower

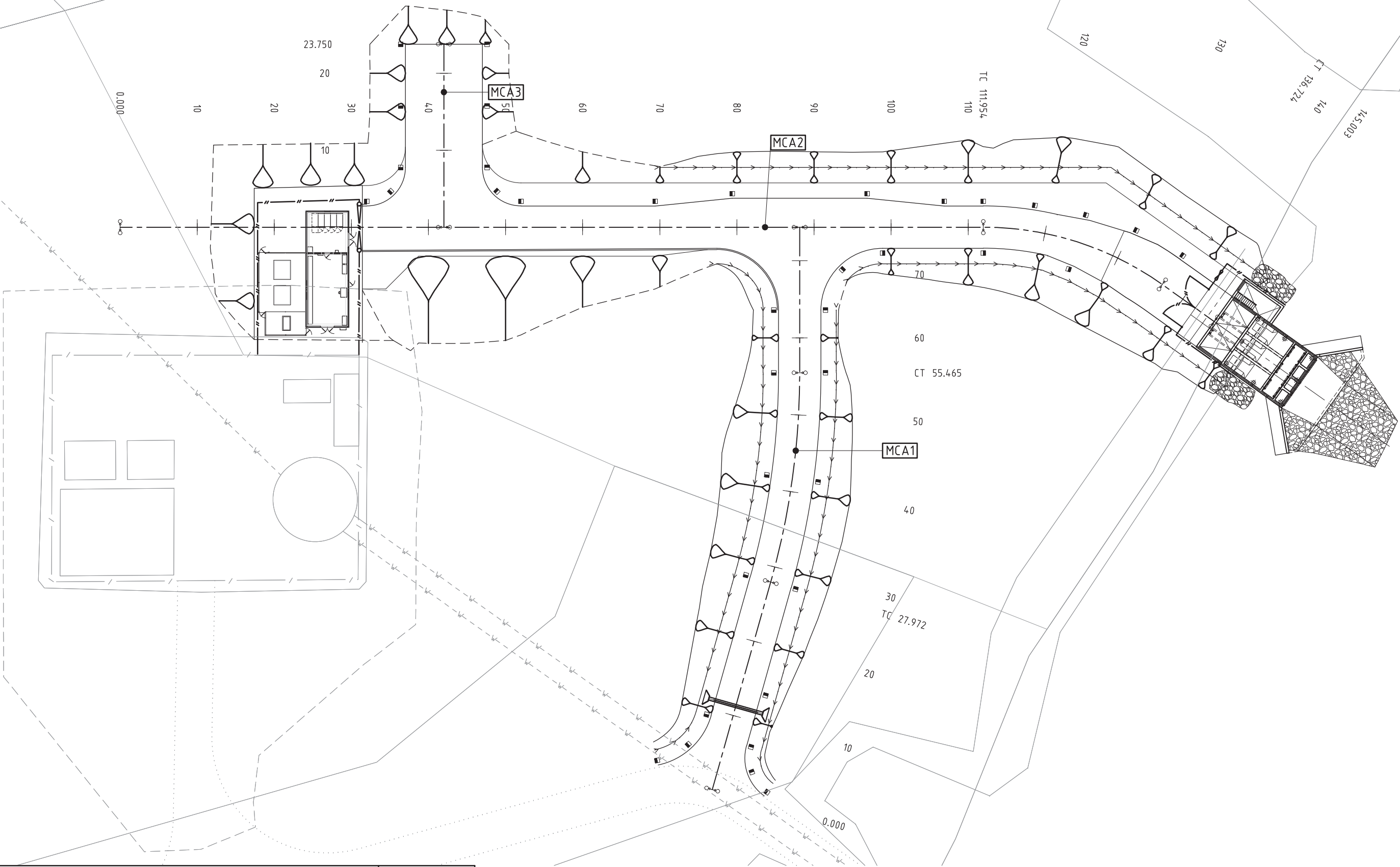
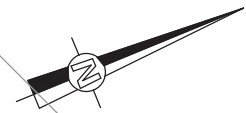
Reviewer: David Cox

Senior Associate Engineer – Water, Dams and Hydropower




Attachments:

- A. Design Drawings - Proposed pump station intake and new access road.
- B. Flood afflux maps – Fitzroy River catchment and near the SunWater Stanwell pump station site

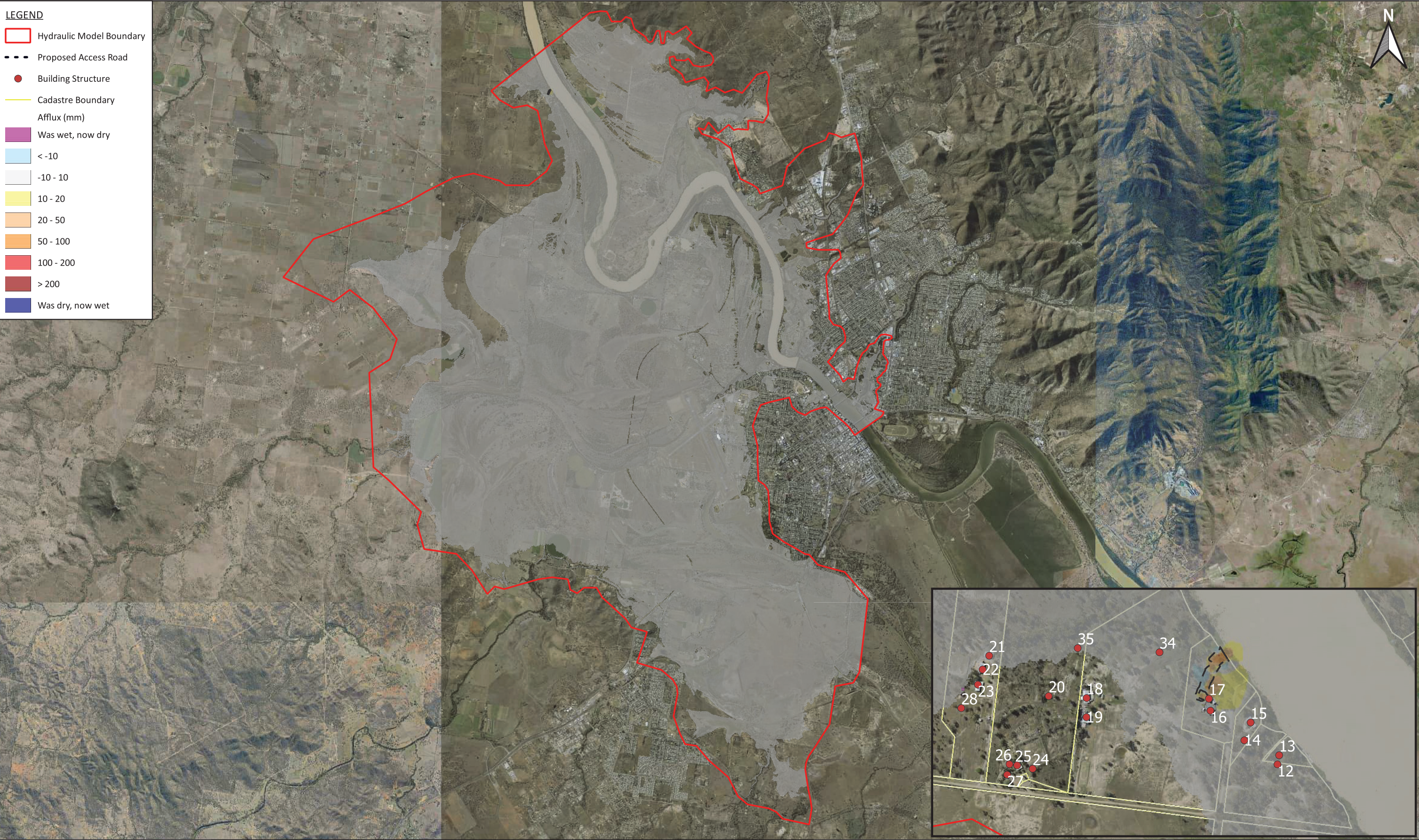
Appendix A – Design Drawings

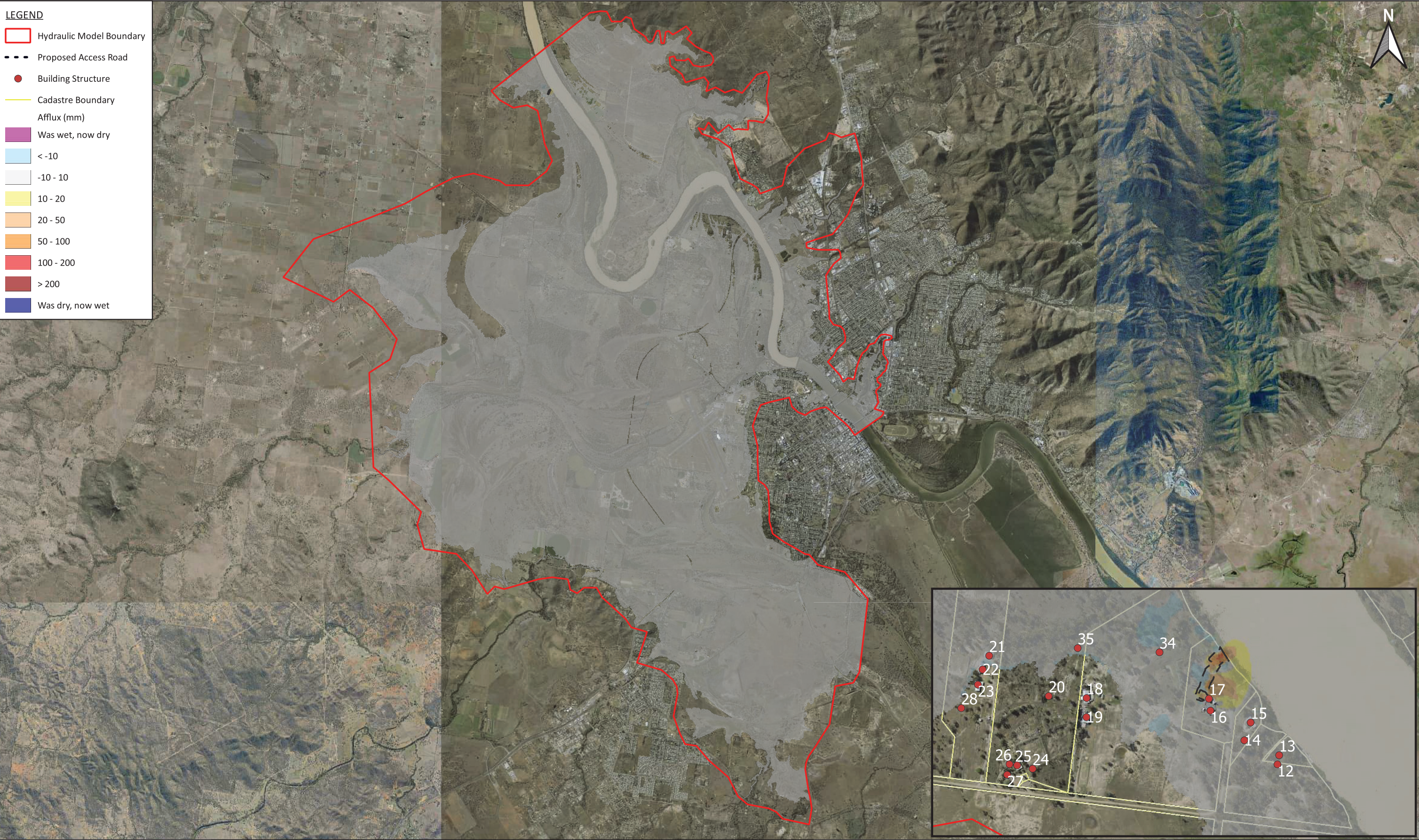


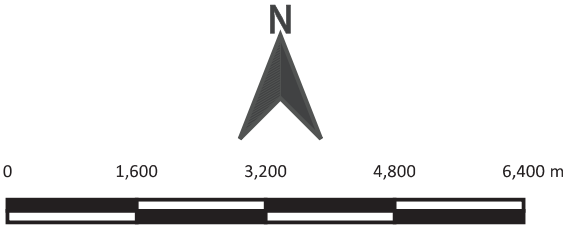


NOT FOR CONSTRUCTION

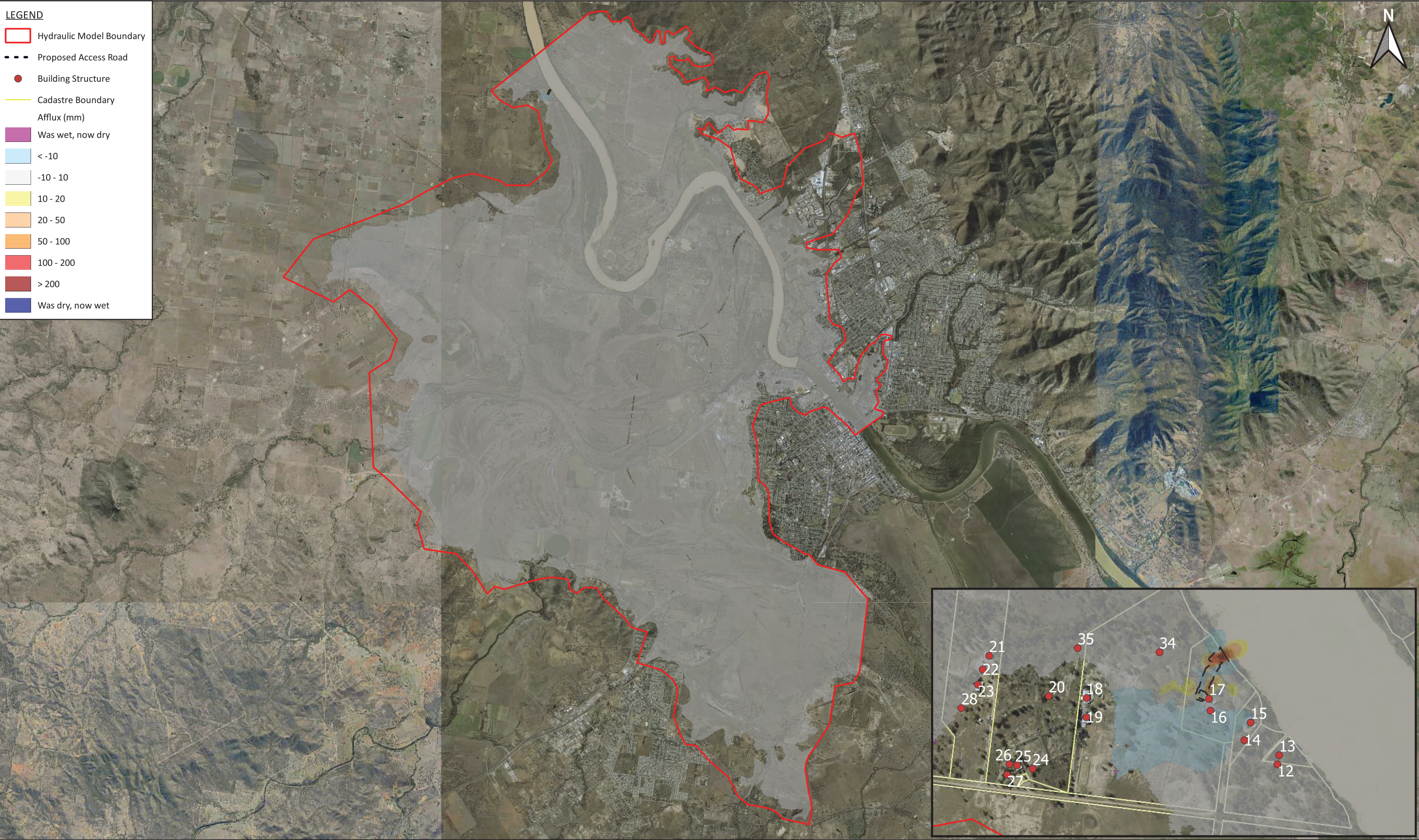
DRAWING FILE LOCATION / NAME V:_Vault\Projects\3003\30032687\--GFP--OE Project\110_CADD\CAD\DWG\01 30 GL\36100 FITZROY INTAKE & PUMP STATION\30032687-DWG-36100-C-1050.dwg					PLOT DATE 06 Jul 2022		TIME 18:25:27		NOT FOR CONSTRUCTION							
EXTERNAL REFERENCE FILES		REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No.	APPROVAL	TITLE	NAME	SCALES AT A1 SIZE DRAWING		DESIGNER	CLIENT	PROJECT TITLE			
X_SITE_EXISTING X_36100_CIVIL X_36100_CONTROL X_36100_INTAKE_STRUCTURE X_36032656_SMEC_A1 X_ASSUMED_DCB0		A	20.08.21	CONCEPT DESIGN-EC1 PHASE	006	MSL	DRAFTER	S.CUNNINGHAM	SCALE C  1 : 500 (A3) 1 : 250 (A1)		 Member of the Surbana Jurong Group © ABN 47 065 475 149 LEVEL 6, 480 ST PAULS TERRACE FORTITUDE VALLEY QLD 4006 SMEC PROJECT No 30032687	 Gladstone Area Water Board	GLADSTONE - FITZROY PIPELINE PROJECT 30GLA - INTAKE PUMP STATION CONTROL LINE LAYOUT PLAN			
			DRAFTING CHECK	R.STAAL												
			DESIGNER	S.CUNNINGHAM												
			DESIGN CHECK	M.MAY												
			PROJECT MANAGER													
				PROJECT DIRECTOR									SCALE 1:250	PHASE CONCEPT DESIGN	PROJECT / DRAWING No. 30032687-DWG-36100-C-1050	REVISION A

Appendix B - Flood afflux maps





<p>PROJECT TITLE: GAWB Gladstone to Fitzroy OE</p> <p>PROJECT NO: 30032687</p> <p>MAP TITLE: Afflux 1%AEP</p> <p>MAP NO: 2</p> <p>COORDINATE SYSTEM: GDA20/MGA ZONE 56</p>		<p>REVISION: 00</p> <p>STATUS: FINAL</p> <p>PAGE SIZE: A3</p> <p>AUTHOR: ZH.Y.</p> <p>SOURCES: Metromaps</p> <p>DATE: 04/07/22</p> <p>© SMEC Australia Pty Ltd 2019. All Rights Reserved</p> <p>Disclaimer: While all reasonable care has been taken to ensure the information contained on this map is up to date and accurate, this map contains data from a number of sources - no warranty is given that the information contained on this is free from error or omission. Any reliance placed on such information shall be at the sole risk of the user. Please verify the accuracy of all information prior to using it. This map is not a design document.</p>	<p>CLIENT:</p> 	<p>CONSULTANT:</p>  <p>Member of the Surbana Jurong Group</p>
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<div>PROJECT TITLE: GAWB Gladstone to Fitzroy OE</div> <div>PROJECT NO: 30032687</div> <div>MAP TITLE: Afflux 0.05%AEP</div> <div>MAP NO: 1</div> <div>COORDINATE SYSTEM: GDA20/MGA ZONE 56</div>	<div><div>N</div><div><div>0</div><div>1,600</div><div>3,200</div><div>4,800</div><div>6,400 m</div></div></div>	<div>REVISION: 00</div> <div>STATUS: FINAL</div> <div>PAGE SIZE: A3</div> <div>AUTHOR: ZH.Y.</div> <div>SOURCES: Metromaps</div> <div>DATE: 04/07/22</div> <div><div>© SMEC Australia Pty Ltd 2019. All Rights Reserved</div><div>Disclaimer: While all reasonable care has been taken to ensure the information contained on this map is up to date and accurate, this map contains data from a number of sources - no warranty is given that the information contained on this is free from error or omission. Any reliance placed on such information shall be at the sole risk of the user. Please verify the accuracy of all information prior to using it. This map is not a design document.</div></div>	<div>CLIENT:</div> <div><div><div></div></div><div>Gladstone Area Water Board</div></div>	<div>CONSULTANT:</div> <div><div><div></div></div><div>SMEC</div><div>Member of the Surbana Jurong Group</div></div>
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