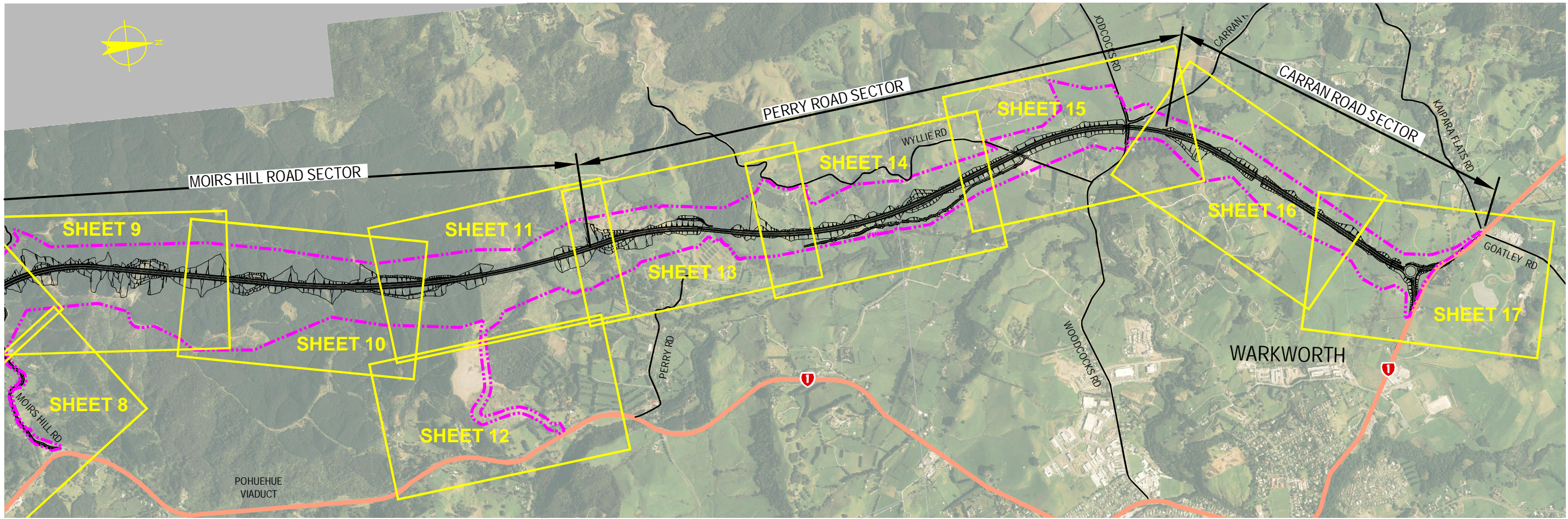
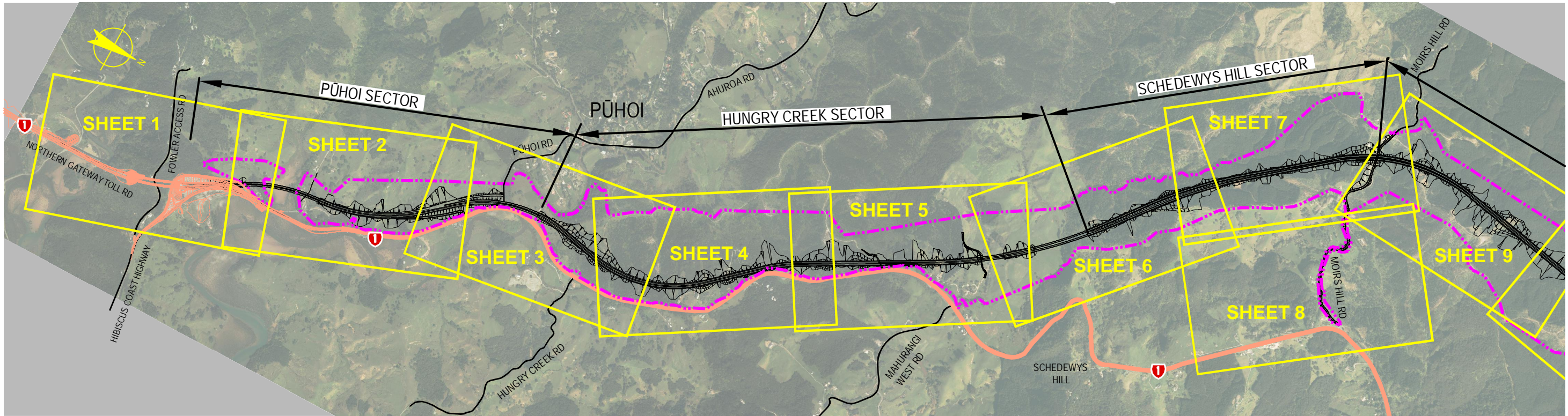
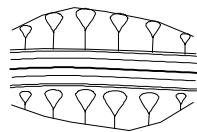


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KEY:

----- PROPOSED DESIGNATION  
----- BOUNDARY



----- INDICATIVE ROAD ALIGNMENT

AMT	DATE	DESIGN REVIEW	REV'D D. MGR	APP'D A. MGR	PURPOSE OF ISSUE / AMENDMENT
0	30/08/13	GR	MW	TI	ISSUE FOR NOR / CONSENT

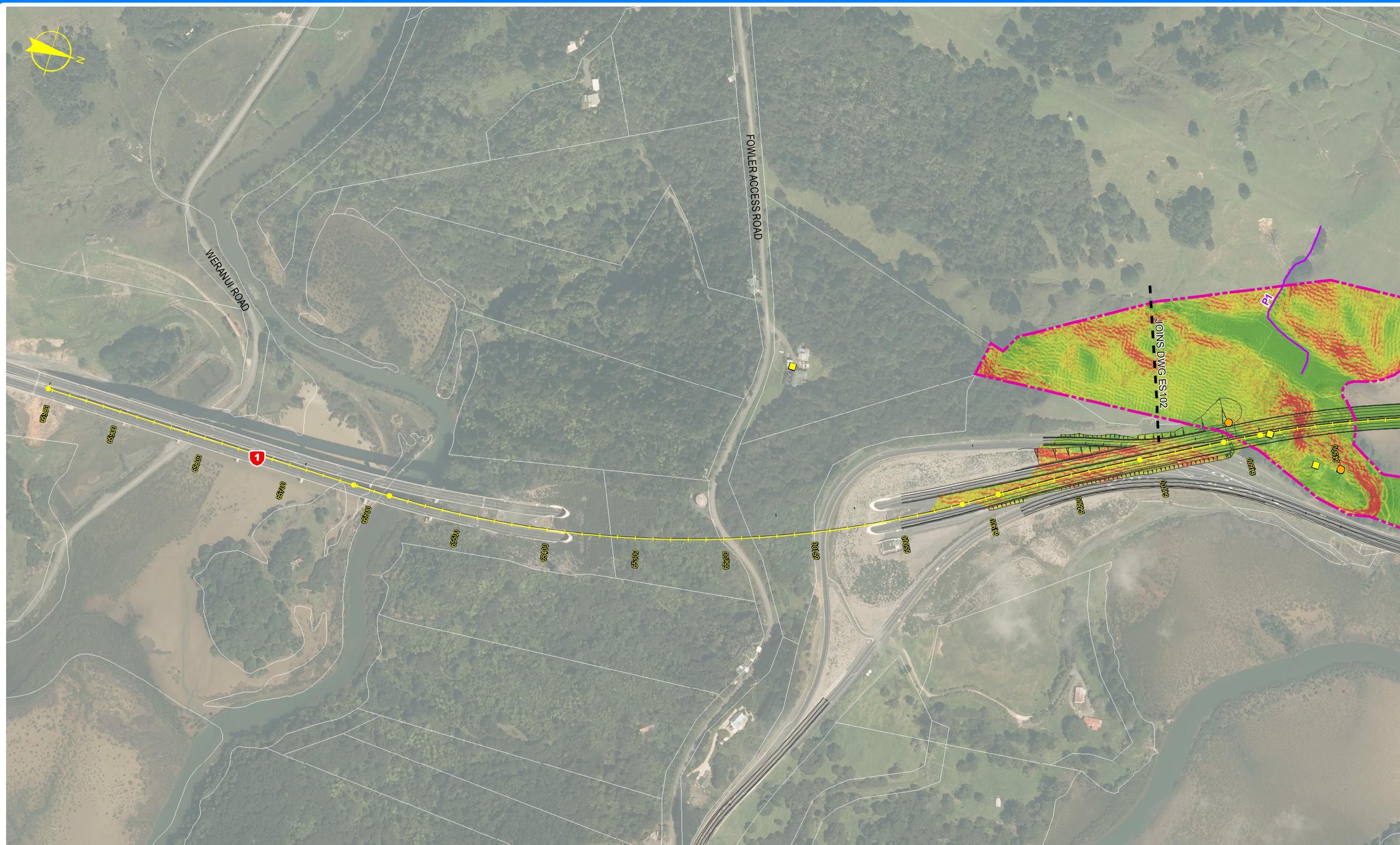


**DISCLAIMER**  
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ARA TŪHONO - PŪHOI TO WELLSFORD			
PŪHOI TO WARKWORTH - FOR RMA APPROVALS			
DRAWN: SP	DRAFTING CHECK: RS	REVIEWED DISCIPLINE MANAGER: MW	APPROVED ALLIANCE MANAGER: TI
DESIGNED: RS	DESIGN REVIEW: GR		

EXISTING SLOPE AND HYDROGEOLOGICAL PLAN SHEET LAYOUT			
SCALE: NOT TO SCALE	CONTRACT No: PA3748	DRAWING No: ES-100	AMT: 0






SLOPE ANGLE			
0-3° (0 - 5.2 %)	6-9° (10.5 - 15.8 %)	15-18° (26.8 - 32.5 %)	24-27° (44.5 - 50.9 %)
3-6° (5.2 - 10.5 %)	9-12° (15.8 - 21.3 %)	18-21° (32.5 - 38.4 %)	27-30° (50.9 - 57.7 %)
	12-15° (21.3 - 26.8 %)	21-24° (38.4 - 44.5 %)	30°+ (57.7+ %)

-  BUILDING - BUSINESS
-  BUILDING - HOUSE
-  BUILDING - SHED/GARAGE

SPRING

PERMANENT STREAM AND  
ECOLOGICAL REFERENCE

-0.1- GROUNDWATER DRAWDOWN CONTOURS (m)  
S  BOREHOLES

**NOTE:** FOR GENERAL NOTES AND LEGEND,  
REFER TO DRAWING ES-001



0	30/08/13	GR	MW	TI	ISSUE FOR NOR / CONSENT
AMD	DATE	DESIGN REVIEW	REV'D MGR	APPD A. MGR	PURPOSE OF ISSUE / AMENDMENT



DISCLAIMER

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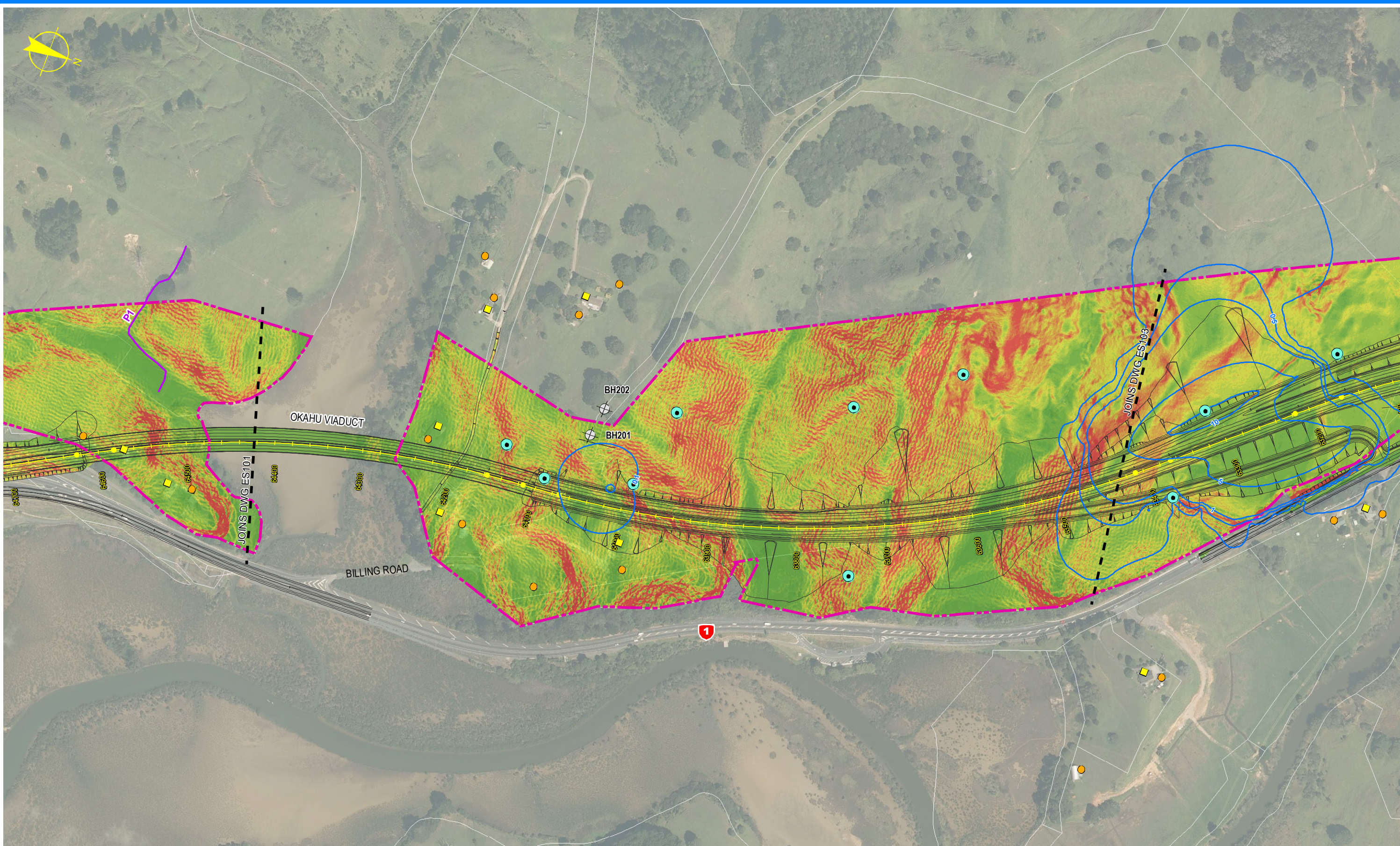
ARA TŪHONO - PŪHOI TO WELLSFORD			
PŪHOI TO WARKWORTH - FOR RMA APPROVALS			
DRAWN	JW	REVIEWED	RS
DESIGNED	RS	DESIGN REVIEW	GR
		REVIEWED DISCIPLINE MANAGER	MMW
		APPROVED ALLIANCE MANAGER	TI

EXISTING SLOPE AND HYDROGEOLOGICAL PLAN

SHEET 1 OF 17

SCALE	CONTRACT No	DRAWING No	AMDT
AS SHOWN	PA3748	ES-101	0





**KEY**

<b>SLOPE ANGLE</b>	6-9° (10.5 - 15.8 %)	15-18° (26.8 - 32.5 %)	24-27° (44.5 - 50.9 %)	▲ BUILDING - BUSINESS	● SPRING	—0.1— GROUNDWATER DRAWDOWN CONTOURS (m)
0-3° (0 - 5.2 %)	9-12° (15.8 - 21.3 %)	18-21° (32.5 - 38.4 %)	27-30° (50.9 - 57.7 %)	■ BUILDING - HOUSE	⊕ PERMANENT STREAM AND ITS ECOLOGICAL REFERENCE	⊕ BOREHOLES
3-6° (5.2 - 10.5 %)	12-15° (21.3 - 26.8 %)	21-24° (38.4 - 44.5 %)	30°+ (57.7+ %)	■ BUILDING - SHED/GARAGE		

**NOTE:** FOR GENERAL NOTES AND LEGEND, REFER TO DRAWING ES-001

0 20 40 60 80 100m  
SCALE 1:4,000 @ A3 SIZE

ARA TŪHONO - PŪHOI TO WELLSFORD					
PŪHOI TO WARKWORTH - FOR RMA APPROVALS					
DRAWN JW	DESIGNED RS	REVIEWED RS	DESIGN REVIEW GR	REVIEWED DISCIPLINE MANAGER MW	APPROVED ALLIANCE MANAGER TI

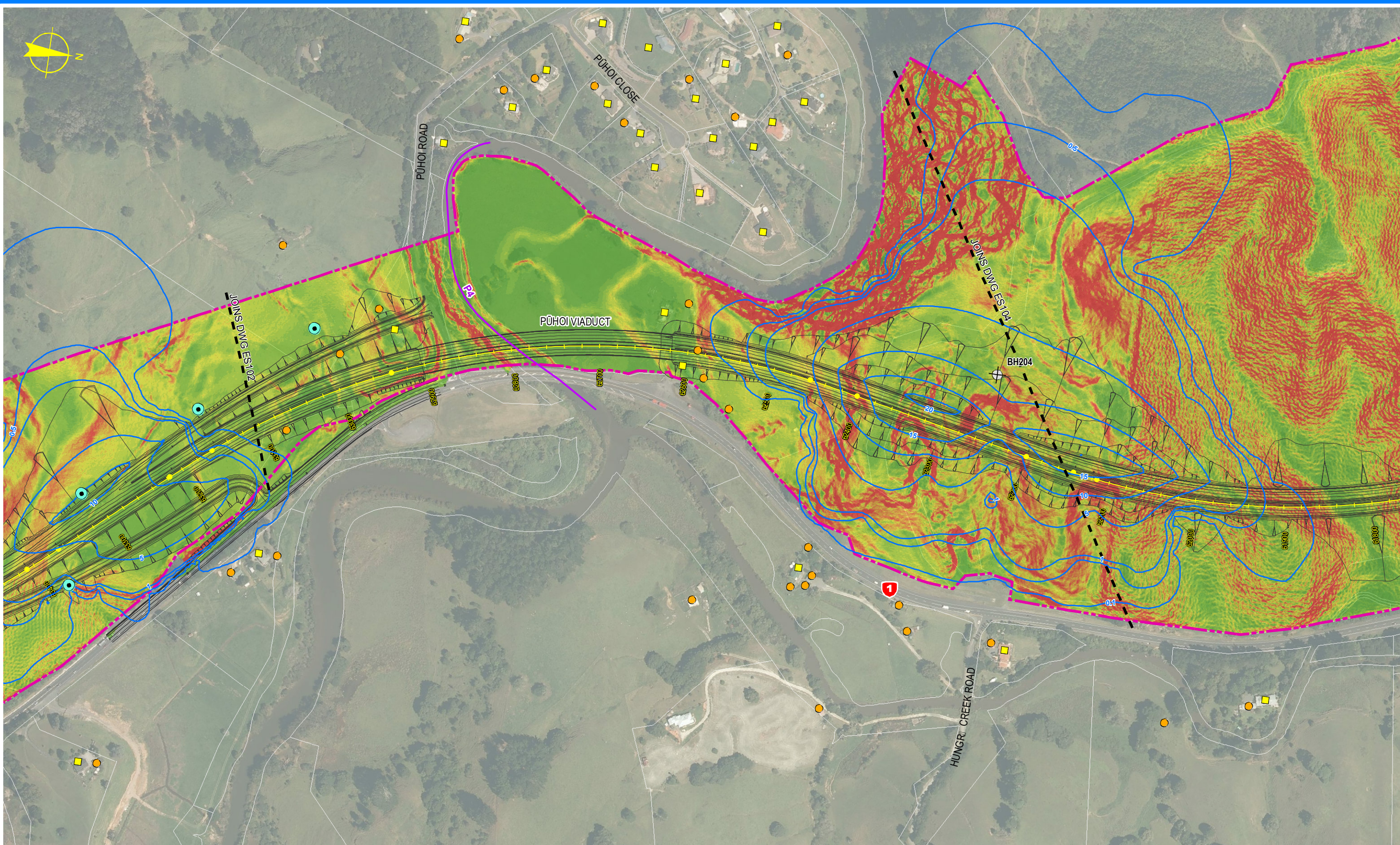
**DISCLAIMER**

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EXISTING SLOPE AND HYDROGEOLOGICAL PLAN					
SHEET 2 OF 17					
SCALE AS SHOWN	CONTRACT No. PA3748	DRAWING No. ES-102	AMDT 0		

0	30/08/13	GR	MW	TI	ISSUE FOR NOR / CONSENT
AMD	DATE	DESIGN REVIEW	REV'D D.MGR	APPR'D A.MGR	PURPOSE OF ISSUE / AMENDMENT





**KEY**

<b>SLOPE ANGLE</b>	6-9° (10.5 - 15.8 %)	15-18° (26.8 - 32.5 %)	24-27° (44.5 - 50.9 %)	▲ BUILDING - BUSINESS	● SPRING	—0.1— GROUNDWATER DRAWDOWN CONTOURS (m)
0-3° (0 - 5.2 %)	9-12° (15.8 - 21.3 %)	18-21° (32.5 - 38.4 %)	27-30° (50.9 - 57.7 %)	■ BUILDING - HOUSE	— PERMANENT STREAM AND ITS ECOLOGICAL REFERENCE	⊕ BOREHOLES
3-6° (5.2 - 10.5 %)	12-15° (21.3 - 26.8 %)	21-24° (38.4 - 44.5 %)	30°+ (57.7+ %)	● BUILDING - SHED/GARAGE		

**DISCLAIMER**

The information shown on this drawing is solely for the purposes of supporting RMA applications for statutory approvals. All information shown is subject to review for compliance with approved consents and the outcomes of final design.

**ARA TŪHONO - PŪHOI TO WELLSFORD**

**PŪHOI TO WARKWORTH - FOR RMA APPROVALS**

DRAWN JW	REVIEWED RS	REVIEWED DISCIPLINE MANAGER MW	APPROVED ALLIANCE MANAGER TI
DESIGNED RS	DESIGN REVIEW GR		

**EXISTING SLOPE AND HYDROGEOLOGICAL PLAN**

**SHEET 3 OF 17**

SCALE AS SHOWN	CONTRACT No. PA3748	DRAWING No. ES-103	AMDT 0
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