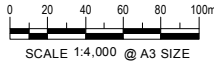


KEY

SLOPE ANGLE				BUILDING - BUSINESS	SPRING	PERMANENT STREAM AND ITS ECOLOGICAL REFERENCE	GROUNDWATER DRAWDOWN CONTOURS (m)	BOREHOLES
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+ %)					

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



REV	DATE	BY	CHKD	APPD	DESCRIPTION
0	30/08/13	GR	MW	TI	ISSUE FOR NOR / CONSENT
AND	DATE	DESIGN REVIEW	REV'D D.MGR	APP'D 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	REVIEWED DISCIPLINE MANAGER MW	APPROVED ALLIANCE MANAGER TI
DESIGNED RS	DESIGN REVIEW GR		

EXISTING SLOPE AND HYDROGEOLOGICAL PLAN			
SHEET 4 OF 17			
SCALE AS SHOWN	CONTRACT No. PA3748	DRAWING No. ES-104	AMDT 0



SLOPE ANGLE

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

 BUILDING - BUSINESS

 SPRINGER

P1 PERMANENT STREAM AND ECOLOGICAL REFERENCE

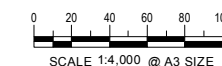
-0.1- GROUNDWATER DRAWDOWN CONTOURS (m)

S BOREHOLES

ARA TŪHONO - PŪHOI TO WELLSFORD

PŪHOI TO WARKWORTH - FOR RMA APPROVALS

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



EXISTING SLOPE AND HYDROGEOLOGICAL PLAN

SHEET 5 OF 17

SCALE AS SHOWN

CONTRACT No	PA3748
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DRAWING No	ES-105
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AMDT	C
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DISCLAIMER

DISCLAIMER
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ARA TŪHONO - PŪHOI TO WELLSFORD

PŪHOI TO WARKWORTH - FOR RMA APPROVALS

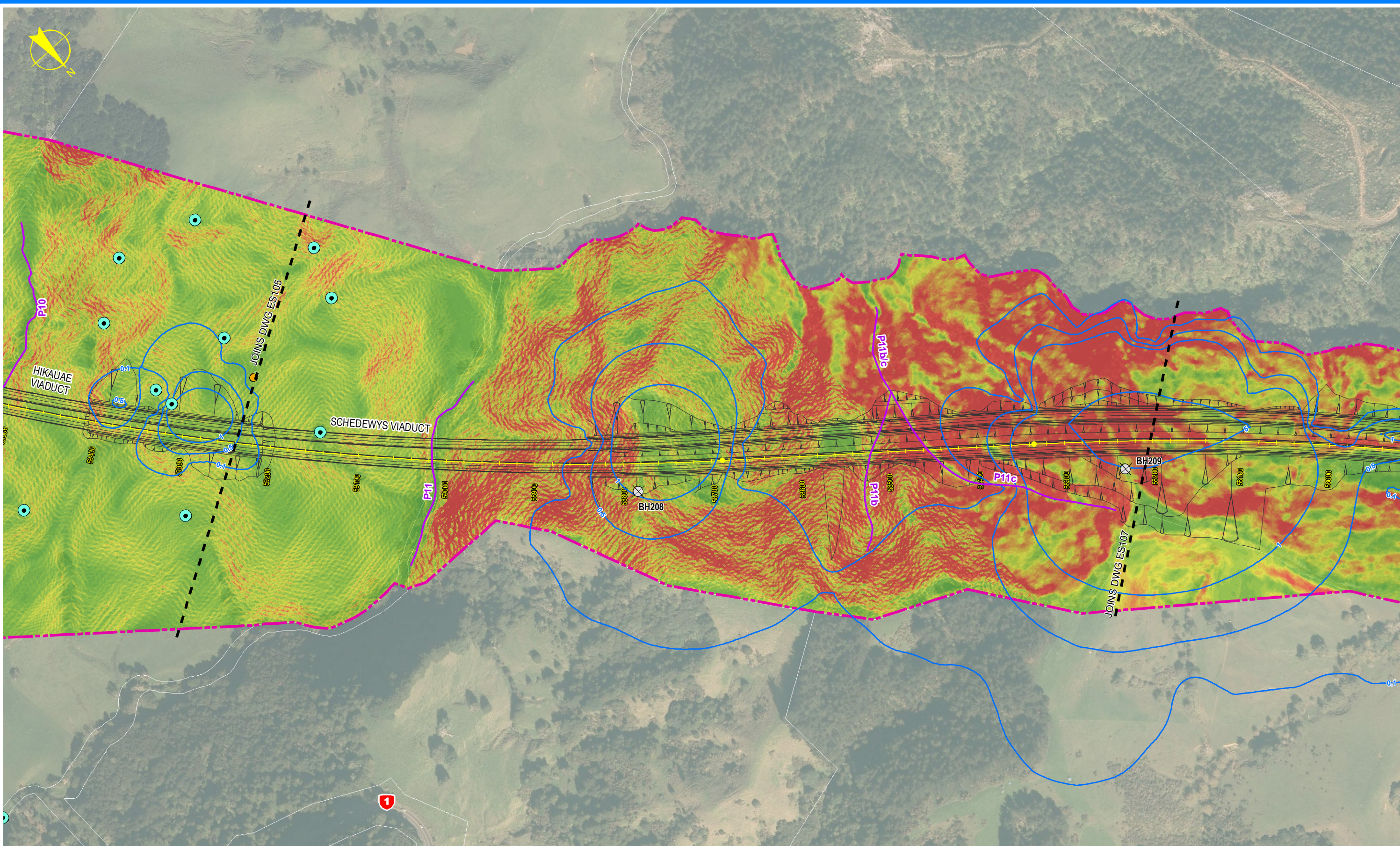
DRAWN	JW	REVIEWED	RS	REVIEWED	DISCIPLINE MANAGER	APPROVED	ALLIANCE MANAGER
DESIGNED	RS	DESIGN REVIEW	GR		MW		TI

SCALE AS SHOWN

CONTRACT No	PA3748
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DRAWING No	ES-105
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AMDT	C
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KEY

SLOPE ANGLE	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		

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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		

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

SCALE 1:4,000 @ A3 SIZE

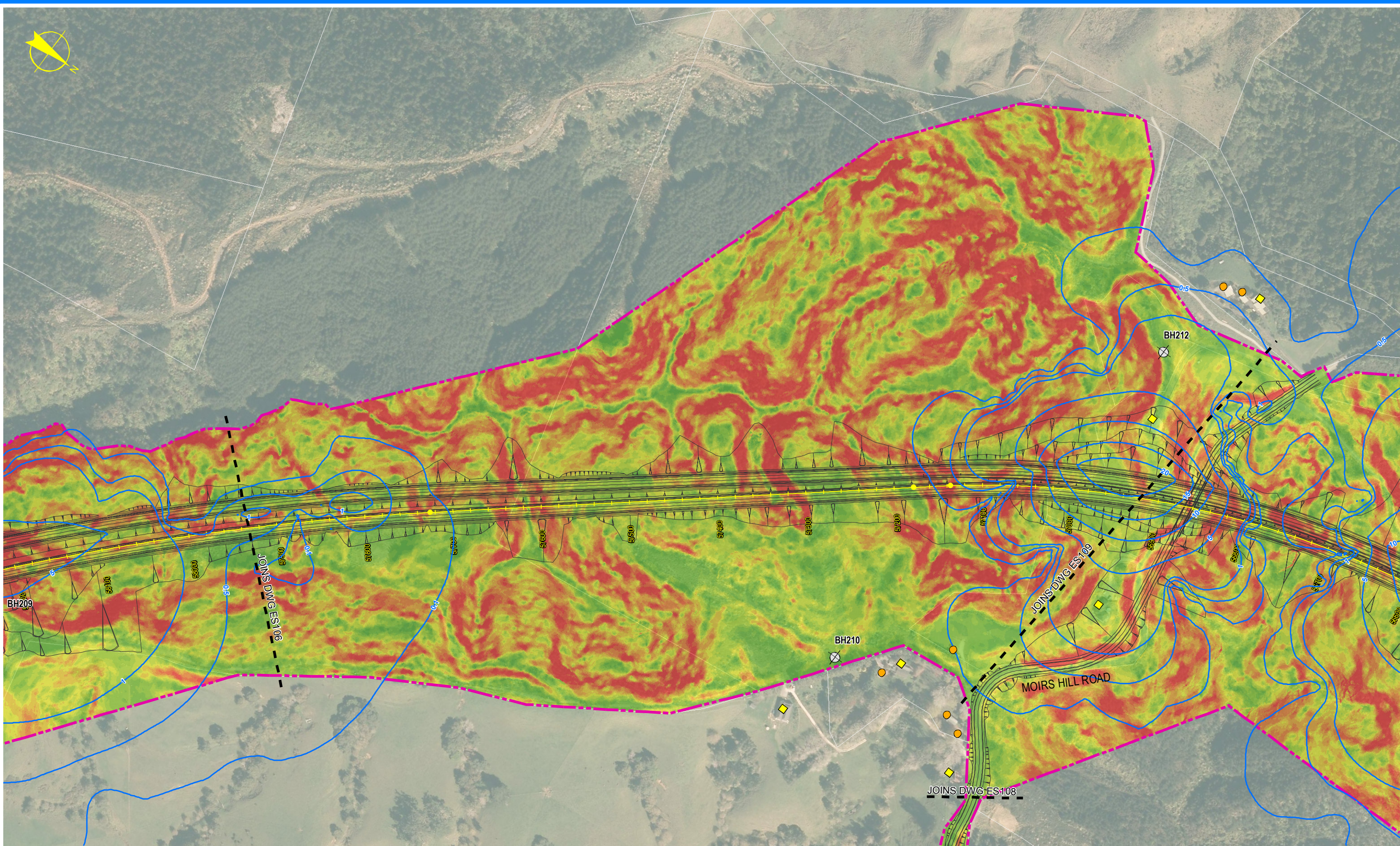
0 20 40 60 80 100m

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

EXISTING SLOPE AND HYDROGEOLOGICAL PLAN

SHEET 6 OF 17

SCALE AS SHOWN	CONTRACT No. PA3748	DRAWING No. ES-106	AMDT 0
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KEY

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	● SPRING	— 0.1 — GROUNDWATER DRAWDOWN CONTOURS (m)
■ BUILDING - HOUSE	— PERMANENT STREAM AND ITS ECOLOGICAL REFERENCE	⊗ BOREHOLES
● BUILDING - SHED/GARAGE		

DISCLAIMER

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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 7 OF 17

SCALE AS SHOWN	CONTRACT No. PA3748	DRAWING No. ES-107	AMDT 0
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0	30/08/13	GR	MW	TI	ISSUE FOR NOR / CONSENT
AND	DATE	DESIGN REVIEW	REV'D D. MGR	APPR'D A. MGR	PURPOSE OF ISSUE / AMENDMENT

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