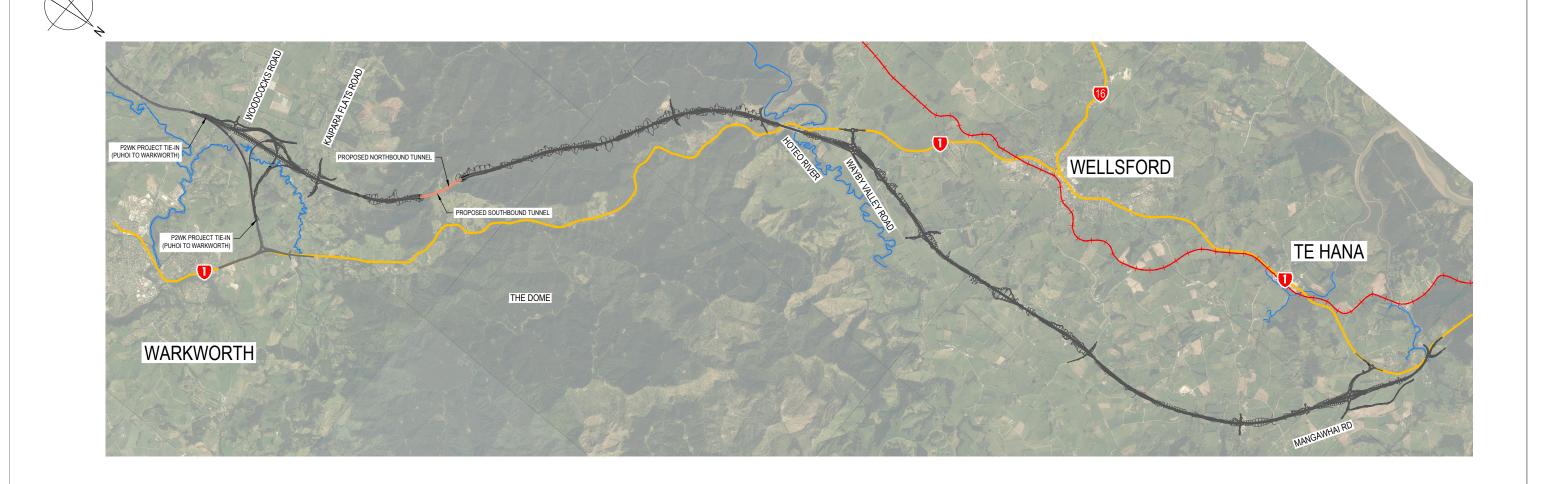




# WARKWORTH TO WELLSFORD PROJECT VOLUME 3 - DRAWING SET





rawing Iumber	DRAWING TITLE	DRAWING NUMBER	DRAWING	TITLE	DRAWING NUMBER		DRAWING TITLE
	GENERAL	SW-031	OPERATIONAL WATER MANAGEMENT - WATER MANAGE	MENT PLAN - SHEET 21 OF 23	ME-020	MAHURANGI SEDIMEN	T DEPOSITION SCENARIO
G-001	COVER SHEET & LOCATION OF PROPOSED PROJECT	SW-032	OPERATIONAL WATER MANAGEMENT - WATER MANAGE	MENT PLAN - SHEET 22 OF 23	ME-021		T DEPOSITION SCENARIO
G-002	DRAWING INDEX - SHEET 1 OF 2	SW-033	OPERATIONAL WATER MANAGEMENT - WATER MANAGE		ME-022	KAIPARA SEDIMENT DE	
G-003	DRAWING INDEX - SHEET 2 OF 2				ME-022	KAIPARA SEDIMENT DE	
G-000 G-010	GENERAL NOTES AND LEGEND - SHEET 1 OF 1		ENVIRONMENTAL SPECIALIST DRAWINGS		ME-023	KAIPARA SEDIMENT DE	
0.010			LIVINONIMENTAL OF LOTALIOT DRAWINGS				
					ME-025	KAIPARA SEDIMENT DE	
	ENGINEERING DESIGN DRAWINGS	014/ 004	CONSTRUCTION WATER MANAGEMENT CONSTRUCTION WATER MANAGEMENT - DRAWING INDI		ME-026	KAIPARA SEDIMENT DE	
		CW-001	CONSTRUCTION WATER MANAGEMENT - DRAWING IND	EX, NOTES AND LEGEND	ME-027	KAIPARA SEDIMENT DE	POSITION SCENARIO
	PROPOSED DESIGNATION & INDICATIVE ALIGNMENT						
R-001	PROPOSED DESIGNATION & INDICATIVE ALIGNMENT NOTES AND LEGEND - SHEET 1 OF 1	CW-011	CONSTRUCTION WATER MANAGEMENT - CONCEPT PLA			OPERATIONAL NC	DISE DRAWINGS
		CW-012	CONSTRUCTION WATER MANAGEMENT - CONCEPT PLA	N - SHEET 2 OF 23	ON-010	OPERATIONAL NOISE A	SSESSMENT NOISE CONTOUR MAP - SHEET 1 OF 16
R-100	PROPOSED DESIGNATION & INDICATIVE ALIGNMENT PLAN - SHEET LAYOUT (1:5000) - SHEET 1 OF 1	CW-013	CONSTRUCTION WATER MANAGEMENT - CONCEPT PLA	N - SHEET 3 OF 23	ON-011	OPERATIONAL NOISE A	SSESSMENT NOISE CONTOUR MAP - SHEET 2 OF 16
R-101	PROPOSED DESIGNATION & INDICATIVE ALIGNMENT PLAN - SHEET 1 OF 9	CW-014	CONSTRUCTION WATER MANAGEMENT - CONCEPT PLA	N - SHEET 4 OF 23	ON-012	OPERATIONAL NOISE A	SSESSMENT NOISE CONTOUR MAP - SHEET 3 OF 16
R-102	PROPOSED DESIGNATION & INDICATIVE ALIGNMENT PLAN - SHEET 2 OF 9	CW-015	CONSTRUCTION WATER MANAGEMENT - CONCEPT PLA	N - SHEET 5 OF 23	ON-013	OPERATIONAL NOISE A	SSESSMENT NOISE CONTOUR MAP- SHEET 4 OF 16
R-103	PROPOSED DESIGNATION & INDICATIVE ALIGNMENT PLAN - SHEET 3 OF 9	CW-016	CONSTRUCTION WATER MANAGEMENT - CONCEPT PLA	N - SHEET 6 OF 23	ON-014		SSESSMENT NOISE CONTOUR MAP - SHEET 5 OF 16
R-104	PROPOSED DESIGNATION & INDICATIVE ALIGNMENT PLAN - SHEET 4 OF 9	CW-017	CONSTRUCTION WATER MANAGEMENT - CONCEPT PLA		ON-015		SSESSMENT NOISE CONTOUR MAP - SHEET 6 OF 16
R-105	PROPOSED DESIGNATION & INDICATIVE ALIGNMENT PLAN - SHEET 5 OF 9	CW-018	CONSTRUCTION WATER MANAGEMENT - CONCEPT PLA		ON-016		SSESSMENT NOISE CONTOUR MAP - SHEET 7 OF 16
R-105	PROPOSED DESIGNATION & INDICATIVE ALIGNMENT PLAN - SHEET 6 OF 9	CW-010	CONSTRUCTION WATER MANAGEMENT - CONCEPT PLA				
					ON-017		SSESSMENT NOISE CONTOUR MAP - SHEET 8 OF 16
R-107	PROPOSED DESIGNATION & INDICATIVE ALIGNMENT PLAN - SHEET 7 OF 9	CW-020	CONSTRUCTION WATER MANAGEMENT - CONCEPT PLA		ON-018		SSESSMENT NOISE CONTOUR MAP - SHEET 9 OF 16
R-108	PROPOSED DESIGNATION & INDICATIVE ALIGNMENT PLAN - SHEET 8 OF 9	CW-021	CONSTRUCTION WATER MANAGEMENT - CONCEPT PLA		ON-019		SSESSMENT NOISE CONTOUR MAP - SHEET 10 OF 16
R-109	PROPOSED DESIGNATION & INDICATIVE ALIGNMENT PLAN - SHEET 9 OF 9	CW-022	CONSTRUCTION WATER MANAGEMENT - CONCEPT PLA		ON-020	OPERATIONAL NOISE A	SSESSMENT NOISE CONTOUR MAP - SHEET 11 OF 16
		CW-023	CONSTRUCTION WATER MANAGEMENT - CONCEPT PLA	N - SHEET 13 OF 23	ON-021	OPERATIONAL NOISE A	SSESSMENT NOISE CONTOUR MAP - SHEET 12 OF 16
R-130	SOUTHBOUND ALIGNMENT MCS0 - SHEET LAYOUT PLAN (1:5000) - SHEET 1 OF 1	CW-024	CONSTRUCTION WATER MANAGEMENT - CONCEPT PLA	N - SHEET 14 OF 23	ON-022	OPERATIONAL NOISE A	SSESSMENT NOISE CONTOUR MAP - SHEET 13 OF 16
R-131	SOUTHBOUND ALIGNMENT MCS0 - PLAN AND LONGITUDINAL SECTION - SHEET 1 OF 9	CW-025	CONSTRUCTION WATER MANAGEMENT - CONCEPT PLA	N - SHEET 15 OF 23	ON-023	OPERATIONAL NOISE A	SSESSMENT NOISE CONTOUR MAP - SHEET 14 OF 16
R-132	SOUTHBOUND ALIGNMENT MCS0 - PLAN AND LONGITUDINAL SECTION - SHEET 2 OF 9	CW-026	CONSTRUCTION WATER MANAGEMENT - CONCEPT PLA		ON-020		SSESSMENT NOISE CONTOUR MAP - SHEET 15 OF 16
R-133	SOUTHBOUND ALIGNMENT MCGG + DAVING EXHIBITION CONCEPTION OF THE PLAN AND LONGITUDINAL SECTION - SHEET 3 OF 9	CW-020	CONSTRUCTION WATER MANAGEMENT - CONCEPT PLA		ON-024		SSESSMENT NOISE CONTOUR MAP - SHEET 16 OF 16
R-133	SOUTHBOUND ALIGNMENT MCS0 - PLAN AND LONGITUDINAL SECTION - SHEET 3 OF 9	CW-027	CONSTRUCTION WATER MANAGEMENT - CONCEPT PLA		011-020	OF LIVETIONAL NOISE P	COLOGINE NT NOIDE CONTOUR WAF - STILLT IV UF 10
R-135	SOUTHBOUND ALIGNMENT MCS0 - PLAN AND LONGITUDINAL SECTION - SHEET 5 OF 9	CW-029	CONSTRUCTION WATER MANAGEMENT - CONCEPT PLA				S - VEGETATION DRAWINGS
R-136	SOUTHBOUND ALIGNMENT MCS0 - PLAN AND LONGITUDINAL SECTION - SHEET 6 OF 9	CW-030	CONSTRUCTION WATER MANAGEMENT - CONCEPT PLA		ES-010	TERRESTRIAL SURVEY	AREA - WARKWORTH NORTH - SHEET 1 OF 5
R-137	SOUTHBOUND ALIGNMENT MCS0 - PLAN AND LONGITUDINAL SECTION - SHEET 7 OF 9	CW-031	CONSTRUCTION WATER MANAGEMENT - CONCEPT PLA	N - SHEET 21 OF 23	ES-011	TERRESTRIAL SURVEY	AREA - DOME VALLEY FOREST - SHEET 2 OF 5
R-138	SOUTHBOUND ALIGNMENT MCS0 - PLAN AND LONGITUDINAL SECTION - SHEET 8 OF 9	CW-032	CONSTRUCTION WATER MANAGEMENT - CONCEPT PLA	N - SHEET 22 OF 23	ES-012	TERRESTRIAL SURVEY	AREA - HOTEO NORTH - HOTEO RIVER - SHEET 3 OF 5
R-139	SOUTHBOUND ALIGNMENT MCS0 - PLAN AND LONGITUDINAL SECTION - SHEET 9 OF 9	CW-033	CONSTRUCTION WATER MANAGEMENT - CONCEPT PLA	N - SHEET 23 OF 23	ES-013	TERRESTRIAL SURVEY	AREA - HOTEO NORTH - WELLSFORD EAST - SHEET 4 OF 5
					ES-014		AREA - HOTEO NORTH - TE HANA - SHEET 5 OF 5
R-181	TYPICAL CROSS SECTIONS - SHEET 1 OF 2	CW-071	CONSTRUCTION WATER MANAGEMENT - CONCEPTUAL	CONSTRUCTION YARD OUTLINE			
R-182			CONSTRUCTION WATER MANAGEMENT - TYPICAL CONC				
11-102	TYPICAL CROSS SECTIONS - SHEET 2 OF 2	CW-072			E0.000		S - HERPETOFAUNA DRAWINGS
		CW-073	CONSTRUCTION WATER MANAGEMENT - TYPICAL CONC		ES-020		IRDS - WARKWORTH NORTH - SHEET 1 OF 5
	BRIDGE STRUCTURES	CW-074	CONSTRUCTION WATER MANAGEMENT - TYPICAL CONC		ES-021		RDS - DOME VALLEY FOREST - SHEET 2 OF 5
S-001	STRUCTURES LOCATION PLAN - SHEET 1 OF 1	CW-075	CONSTRUCTION WATER MANAGEMENT - TYPICAL CONC		ES-022	HERPETOFAUNA RECC	RDS - HOTEO NORTH - HOTEO RIVER - SHEET 3 OF 5
		CW-076	CONSTRUCTION WATER MANAGEMENT - TYPICAL CONC	EPT DESIGN DETAILS - SHEET 5 OF 5	ES-023	HERPETOFAUNA RECO	RDS - HOTEO NORTH - WELLSFORD EAST - SHEET 4 OF 5
S-051	BRIDGE 05 - PLAN AND ELEVATION - SHEET 1 OF 1				ES-024	HERPETOFAUNA RECC	RDS - HOTEO NORTH - TE HANA - SHEET 5 OF 5
S-061	BRIDGE 06 - PLAN AND ELEVATION - SHEET 1 OF 1	CW-081	SOIL DISPOSAL SITE ESTABLISHMENT CONCEPTUAL - M	ETHODOLOGY STAGING PLAN - SHEET 1 OF 4			
S-111	BRIDGE 11 - PLAN AND ELEVATION - SHEET 1 OF 2	CW-082	SOIL DISPOSAL SITE ESTABLISHMENT CONCEPTUAL - M	ETHODOLOGY STAGING PLAN - SHEET 2 OF 4		ECOLOGICAL SITE	S - AVIFAUNA DRAWINGS
S-112	BRIDGE 11 - PLAN AND ELEVATION - SHEET 2 OF 2	CW-083	SOIL DISPOSAL SITE ESTABLISHMENT CONCEPTUAL - M	ETHODOLOGY STAGING PLAN - SHEET 3 OF 4	ES-030	AVIFAUNA SAMPLING L	OCATIONS - WARKWORTH NORTH - SHEET 1 OF 5
S-201	BRIDGE 20 - PLAN AND ELEVATION - SHEET 1 OF 1	CW-084	SOIL DISPOSAL SITE ESTABLISHMENT CONCEPTUAL - M	ETHODOLOGY STAGING PLAN - SHEET 4 OF 4	ES-031	AVIFAUNA SAMPLING L	OCATIONS - DOME VALLEY FOREST - SHEET 2 OF 5
S-211	BRIDGE 21 - PLAN AND ELEVATION - SHEET 1 OF 2				ES-032		OCATIONS - HOTEO NORTH - HOTEO RIVER - SHEET 3 OF 5
S-212	BRIDGE 21 - PLAN AND ELEVATION - SHEET 2 OF 2	CW-086	INDICATIVE ESC MEASURES - BRIDGE 11 - PLAN AND EL	EVATION - SHEET 1 OF 2	ES-033		OCATIONS - HOTEO NORTH - WELLSFORD EAST - SHEET 4 OF 5
S-221	BRIDGE 22 - PLAN AND ELEVATION - SHEET 1 OF 1	CW-087	INDICATIVE ESC MEASURES - BRIDGE 11 - PLAN AND EL		ES-034		OCATIONS - HOTEO NORTH - TE HANA - SHEET 5 OF 5
0 221		011 001			L3-034	AVII AUNA SAWFLING L	OCATIONS - TOTEO NORTH - TE TIANA - SHEET 5 OF 5
	OPERATIONAL WATER MANAGEMENT						
0.11.001		0111.011	GROUND WATER DRAWINGS				ES - BAT DRAWINGS
SW-001	OPERATIONAL WATER MANAGEMENT NOTES AND LEGEND - SHEET 1 OF 1	GW-011	GROUND WATER - GEOLOGICAL LONGITUDINAL SECTIO		ES-040		ONS - WARKWORTH NORTH - SHEET 1 OF 5
		GW-012	GROUND WATER - GEOLOGICAL LONGITUDINAL SECTIO		ES-041		ONS - DOME VALLEY FOREST - SHEET 2 OF 5
SW-011	OPERATIONAL WATER MANAGEMENT - WATER MANAGEMENT PLAN - SHEET 1 OF 23	GW-013	GROUND WATER - GEOLOGICAL LONGITUDINAL SECTIO	N - SHEET 3 OF 10	ES-042	BAT SAMPLING LOCATI	ONS - HOTEO NORTH - HOTEO RIVER - SHEET 3 OF 5
SW-012	OPERATIONAL WATER MANAGEMENT - WATER MANAGEMENT PLAN - SHEET 2 OF 23	GW-014	GROUND WATER - GEOLOGICAL LONGITUDINAL SECTIO	N - SHEET 4 OF 10	ES-043	BAT SAMPLING LOCATI	ONS - HOTEO NORTH - WELLSFORD EAST - SHEET 4 OF 5
SW-013	OPERATIONAL WATER MANAGEMENT - WATER MANAGEMENT PLAN - SHEET 3 OF 23	GW-015	GROUND WATER - GEOLOGICAL LONGITUDINAL SECTIO	N - SHEET 5 OF 10	ES-044	BAT SAMPLING LOCATI	ONS - HOTEO NORTH - TE HANA - SHEET 5 OF 5
SW-014	OPERATIONAL WATER MANAGEMENT - WATER MANAGEMENT PLAN - SHEET 4 OF 23	GW-016	GROUND WATER - GEOLOGICAL LONGITUDINAL SECTIO	N - SHEET 6 OF 10			
SW-015	OPERATIONAL WATER MANAGEMENT - WATER MANAGEMENT PLAN - SHEET 5 OF 23	GW-017	GROUND WATER - GEOLOGICAL LONGITUDINAL SECTIO				S - FRESHWATER DRAWINGS
SW-016	OPERATIONAL WATER MANAGEMENT - WATER MANAGEMENT PLAN - SHEET 6 OF 23	GW-018	GROUND WATER - GEOLOGICAL LONGITUDINAL SECTIO		ES-050		P - WARKWORTH NORTH - SHEET 1 OF 5
SW-010	OPERATIONAL WATER MANAGEMENT - WATER MANAGEMENT PLAN - SHEET 7 OF 23	GW-018	GROUND WATER - GEOLOGICAL LONGITUDINAL SECTIO				
					ES-051		P - DOME VALLEY FOREST - SHEET 2 OF 5
SW-018	OPERATIONAL WATER MANAGEMENT - WATER MANAGEMENT PLAN - SHEET 8 OF 23	GW-020	GROUND WATER - GEOLOGICAL LONGITUDINAL SECTIO	N - SHEET TU UF TU	ES-052		P - HOTEO NORTH - HOTEO RIVER - SHEET 3 OF 5
SW-019	OPERATIONAL WATER MANAGEMENT - WATER MANAGEMENT PLAN - SHEET 9 OF 23				ES-053		P - HOTEO NORTH - WELLSFORD EAST - SHEET 4 OF 5
SW-020	OPERATIONAL WATER MANAGEMENT - WATER MANAGEMENT PLAN - SHEET 10 OF 23		MARINE ECOLOGY DRAWINGS		ES-054	FRESHWATER SITE MA	P - HOTEO NORTH - TE HANA - SHEET 5 OF 5
SW-021	OPERATIONAL WATER MANAGEMENT - WATER MANAGEMENT PLAN - SHEET 11 OF 23	ME-011	MARINE ECOLOGICAL ASSESSMENT KAIPARA HARBOUF				
SW-022	OPERATIONAL WATER MANAGEMENT - WATER MANAGEMENT PLAN - SHEET 12 OF 23	ME-012	MARINE ECOLOGICAL ASSESSMENT KAIPARA AND MAH	JRANGI HARBOURS		ECOLOGICAL VAI	UES - INDIVIDUAL SITE DRAWINGS
SW-023	OPERATIONAL WATER MANAGEMENT - WATER MANAGEMENT PLAN - SHEET 13 OF 23	ME-013	MARINE ECOLOGICAL ASSESSMENT MAHURANGI HARB	DUR	EV-001		IENT TERRESTRIAL VALUES MAP - SHEET 1 OF 6
SW-024	OPERATIONAL WATER MANAGEMENT - WATER MANAGEMENT PLAN - SHEET 14 OF 23	ME-014	MAHURANGI SEDIMENT DEPOSITION SCENARIO		EV-001		IENT TERRESTRIAL VALUES MAP - SHEET 2 OF 6
SW-024	OPERATIONAL WATER MANAGEMENT - WATER MANAGEMENT PLAN - SHEET 15 OF 23	ME-015	MAHURANGI SEDIMENT DEPOSITION SCENARIO		EV-002		IENT TERRESTRIAL VALUES MAP - SHEET 2 OF 6
SW-025 SW-026	OPERATIONAL WATER MANAGEMENT - WATER MANAGEMENT PLAN - SHEET 15 OF 23 OPERATIONAL WATER MANAGEMENT - WATER MANAGEMENT PLAN - SHEET 16 OF 23	ME-015	MAHURANGI SEDIMENT DEPOSITION SCENARIO				
					EV-004		IENT TERRESTRIAL VALUES MAP - SHEET 4 OF 6
SW-027	OPERATIONAL WATER MANAGEMENT - WATER MANAGEMENT PLAN - SHEET 17 OF 23	ME-017	MAHURANGI SEDIMENT DEPOSITION SCENARIO		EV-005		IENT TERRESTRIAL VALUES MAP - SHEET 5 OF 6
SW-028	OPERATIONAL WATER MANAGEMENT - WATER MANAGEMENT PLAN - SHEET 18 OF 23	ME-018	MAHURANGI SEDIMENT DEPOSITION SCENARIO		EV-006	ECOLOGICAL ASSESS	IENT TERRESTRIAL VALUES MAP - SHEET 6 OF 6
SW-029	OPERATIONAL WATER MANAGEMENT - WATER MANAGEMENT PLAN - SHEET 19 OF 23	ME-019	MAHURANGI SEDIMENT DEPOSITION SCENARIO				
SW-030	OPERATIONAL WATER MANAGEMENT - WATER MANAGEMENT PLAN - SHEET 20 OF 23						
				DO NOT SCALE			OJECT WARKWORTH TO WELLSFORD PROJEC
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Plot	Date: 5 July	2019 - 9:14 AM	Cad File No:	C:\WW2W\CAD_LM\20190703\	PA4156-G-0	002-003_LM	l.dwg





DRAWING   DRAWING TITLE     NUMBER   PRIORITY ECOLOGICAL SITE DRAWINGS     PES-010   PRIORITY ECOLOGICAL SITES (PES) OVERVIEW MAP - SHEET 1 OF 1     PES-020   OVERVIEW OF PES IN THE UPPER KOURAWHERO STREAM CATCHMENT AREA - SHEET 1 OF 1     PES-030   PRIORITY ECOLOGICAL SITES - WN_T_MAHU_01 - SHEET 1 OF 14     PES-031   PRIORITY ECOLOGICAL SITES - WN_T_KOURA_01 - SHEET 2 OF 14     PES-032   PRIORITY ECOLOGICAL SITES - WN_T_KOURA_01 - SHEET 3 OF 14     PES-033   PRIORITY ECOLOGICAL SITES - WN_T_KOURA_02 - SHEET 6 OF 14     PES-034   PRIORITY ECOLOGICAL SITES - WN_W_KOURA_02 - SHEET 6 OF 14     PES-035   PRIORITY ECOLOGICAL SITES - WN_W_KOURA_03 - SHEET 9 OF 14     PES-036   PRIORITY ECOLOGICAL SITES - WN_W_KOURA_05 - SHEET 9 OF 14     PES-037   PRIORITY ECOLOGICAL SITES - DVF_W_KORUA_01 - SHEET 10 OF 14     PES-039   PRIORITY ECOLOGICAL SITES - DVF_W_KORUA_02 - SHEET 10 OF 14     PES-040   PRIORITY ECOLOGICAL SITES - NN_T_HOTEO_02 - SHEET 10 OF 14     PES-041   PRIORITY ECOLOGICAL SITES - HN_T_HOTEO_02 - SHEET 10 OF 14     PES-042   PRIORITY ECOLOGICAL SITES - HN_T_HOTEO_02 - SHEET 10 OF 14     PES-043   PRIORITY ECOLOGICAL MITIGATION MAPS - SHEET 10 F 6     EM-010   LANDSCAPE AND ECOLOGICAL	)rawing Number	DRAWING TITLE
PES-020 OVERVIEW OF PES IN THE UPPER KOURAWHERO STREAM CATCHMENT AREA - SHEET 1 OF   PES-030 PRIORITY ECOLOGICAL SITES - WN_T_MAHU_01 - SHEET 1 OF 14   PES-031 PRIORITY ECOLOGICAL SITES - WN_T_MAHU_02 - SHEET 2 OF 14   PES-032 PRIORITY ECOLOGICAL SITES - WN_T_KOURA_01 - SHEET 3 OF 14   PES-033 PRIORITY ECOLOGICAL SITES - WN_T_KOURA_01 - SHEET 4 OF 14   PES-035 PRIORITY ECOLOGICAL SITES - WN_W_KOURA_02 - SHEET 5 OF 14   PES-036 PRIORITY ECOLOGICAL SITES - WN_W_KOURA_03 - SHEET 7 OF 14   PES-037 PRIORITY ECOLOGICAL SITES - WN_W_KOURA_03 - SHEET 7 OF 14   PES-038 PRIORITY ECOLOGICAL SITES - WN_W_KOURA_04 - SHEET 8 OF 14   PES-039 PRIORITY ECOLOGICAL SITES - WN_W_KOURA_05 - SHEET 1 OF 14   PES-039 PRIORITY ECOLOGICAL SITES - DVF_W_KORUA_01 - SHEET 10 OF 14   PES-040 PRIORITY ECOLOGICAL SITES - NN_T_HOTEO_02 - SHEET 11 OF 14   PES-041 PRIORITY ECOLOGICAL SITES - HN_T_HOTEO_02 - SHEET 10 OF 14   PES-042 PRIORITY ECOLOGICAL SITES - HN_T_HOTEO_02 - SHEET 10 OF 14   PES-043 PRIORITY ECOLOGICAL SITES - HN_T_HOTEO_02 - SHEET 10 OF 6   EM-010 LANDSCAPE AND ECOLOGICAL MITIGATION MAPS - SHEET 1 OF 6   EM-010 LANDSCAPE AND ECOLOGICAL MITIGATION MAPS - SHEET 2 OF 6   EM-011 LANDSCAPE AND ECOLOGICAL		PRIORITY ECOLOGICAL SITE DRAWINGS
PES-030 PRIORITY ECOLOGICAL SITES - WN_T_MAHU_01 - SHEET 1 OF 14   PES-031 PRIORITY ECOLOGICAL SITES - WN_W_KOURA_01 - SHEET 3 OF 14   PES-032 PRIORITY ECOLOGICAL SITES - WN_T_KOURA_01 - SHEET 3 OF 14   PES-033 PRIORITY ECOLOGICAL SITES - WN_T_KOURA_01 - SHEET 3 OF 14   PES-034 PRIORITY ECOLOGICAL SITES - WN_W_KOURA_02 - SHEET 5 OF 14   PES-035 PRIORITY ECOLOGICAL SITES - WN_W_KOURA_02 - SHEET 5 OF 14   PES-036 PRIORITY ECOLOGICAL SITES - WN_W_KOURA_03 - SHEET 7 OF 14   PES-037 PRIORITY ECOLOGICAL SITES - WN_W_KOURA_04 - SHEET 8 OF 14   PES-038 PRIORITY ECOLOGICAL SITES - WN_W_KOURA_05 - SHEET 10 OF 14   PES-039 PRIORITY ECOLOGICAL SITES - DVF_W_KORUA_01 - SHEET 10 OF 14   PES-040 PRIORITY ECOLOGICAL SITES - NN_T_HOTEO_02 - SHEET 11 OF 14   PES-041 PRIORITY ECOLOGICAL SITES - HN_T_HOTEO_02 - SHEET 12 OF 14   PES-042 PRIORITY ECOLOGICAL SITES - HN_W_HOTEO_02 - SHEET 13 OF 14   PES-043 PRIORITY ECOLOGICAL SITES - HN_W_HOTEO_02 - SHEET 10 OF 14   PES-044 PRIORITY ECOLOGICAL SITES - HN_W_HOTEO_02 - SHEET 10 OF 6   EM-010 LANDSCAPE AND ECOLOGICAL MITIGATION MAPS - SHEET 1 OF 6   EM-011 LANDSCAPE AND ECOLOGICAL MITIGATION MAPS - SHEET 3 OF 6   EM-012 LANDSCAPE AND ECOLOGICAL MITIGATION MA	PES-010	PRIORITY ECOLOGICAL SITES (PES) OVERVIEW MAP - SHEET 1 OF 1
PES-031 PRIORITY ECOLOGICAL SITES - WN_T_MAHU_02 - SHEET 2 OF 14   PES-032 PRIORITY ECOLOGICAL SITES - WN_T_KOURA_01 - SHEET 3 OF 14   PES-033 PRIORITY ECOLOGICAL SITES - WN_T_KOURA_01 - SHEET 5 OF 14   PES-035 PRIORITY ECOLOGICAL SITES - WN_T_KOURA_02 - SHEET 5 OF 14   PES-036 PRIORITY ECOLOGICAL SITES - WN_W_KOURA_02 - SHEET 6 OF 14   PES-037 PRIORITY ECOLOGICAL SITES - WN_W_KOURA_03 - SHEET 7 OF 14   PES-038 PRIORITY ECOLOGICAL SITES - WN_W_KOURA_04 - SHEET 9 OF 14   PES-039 PRIORITY ECOLOGICAL SITES - WN_W_KOURA_05 - SHEET 9 OF 14   PES-039 PRIORITY ECOLOGICAL SITES - DVF_W_KORUA_01 - SHEET 10 OF 14   PES-040 PRIORITY ECOLOGICAL SITES - DVF_T_KORUA_02 - SHEET 10 OF 14   PES-041 PRIORITY ECOLOGICAL SITES - HN_T_HOTEO_02 - SHEET 12 OF 14   PES-042 PRIORITY ECOLOGICAL SITES - HN_T_HOTEO_02 - SHEET 10 OF 14   PES-043 PRIORITY ECOLOGICAL SITES - HN_W_HOTEO_02 - SHEET 10 F 14   PES-044 PRIORITY ECOLOGICAL SITES - HN_W_HOTEO_02 - SHEET 10 F 14   PES-045 PRIORITY ECOLOGICAL MITIGATION MAPS - SHEET 2 OF 6   EM-010 LANDSCAPE AND ECOLOGICAL MITIGATION MAPS - SHEET 1 OF 6   EM-011 LANDSCAPE AND ECOLOGICAL MITIGATION MAPS - SHEET 3 OF 6   EM-012 LANDSCAPE AND ECOLOGICAL MITIGATION MAPS - SHE	PES-020	OVERVIEW OF PES IN THE UPPER KOURAWHERO STREAM CATCHMENT AREA - SHEET 1 OF 1
PES-032 PRIORITY ECOLOGICAL SITES - WN_W_KOURA_01 - SHEET 3 OF 14   PES-033 PRIORITY ECOLOGICAL SITES - WN_T_KOURA_02 - SHEET 4 OF 14   PES-034 PRIORITY ECOLOGICAL SITES - WN_W_KOURA_02 - SHEET 6 OF 14   PES-035 PRIORITY ECOLOGICAL SITES - WN_W_KOURA_02 - SHEET 7 OF 14   PES-036 PRIORITY ECOLOGICAL SITES - WN_W_KOURA_03 - SHEET 7 OF 14   PES-037 PRIORITY ECOLOGICAL SITES - WN_W_KOURA_04 - SHEET 8 OF 14   PES-038 PRIORITY ECOLOGICAL SITES - DVF_W_KORUA_01 - SHEET 10 OF 14   PES-039 PRIORITY ECOLOGICAL SITES - DVF_W_KORUA_01 - SHEET 10 OF 14   PES-040 PRIORITY ECOLOGICAL SITES - DVF_T_KORUA_02 - SHEET 10 OF 14   PES-041 PRIORITY ECOLOGICAL SITES - HN_T_HOTEO_02 - SHEET 10 F 14   PES-042 PRIORITY ECOLOGICAL SITES - HN_T_HOTEO_02 - SHEET 13 OF 14   PES-043 PRIORITY ECOLOGICAL SITES - HN_W_HOTEO_02 - SHEET 10 F 14   PES-044 PRIORITY ECOLOGICAL SITES - HN_W_HOTEO_02 - SHEET 10 F 6   EM-010 LANDSCAPE AND ECOLOGICAL MITIGATION MAPS - SHEET 2 OF 6   EM-011 LANDSCAPE AND ECOLOGICAL MITIGATION MAPS - SHEET 3 OF 6   EM-012 LANDSCAPE AND ECOLOGICAL MITIGATION MAPS - SHEET 3 OF 6   EM-013 LANDSCAPE AND ECOLOGICAL MITIGATION MAPS - SHEET 3 OF 6   EM-014 LANDSCAPE AND ECOLOGICAL MITIGATION MAPS - S	PES-030	PRIORITY ECOLOGICAL SITES - WN_T_MAHU_01 - SHEET 1 OF 14
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PLANNING VERSION ULDF	LS-009	VIEWPOINT 21: CHARIS LANE LOOKING NORTH-EAST
		PLANNING VERSION ULDF

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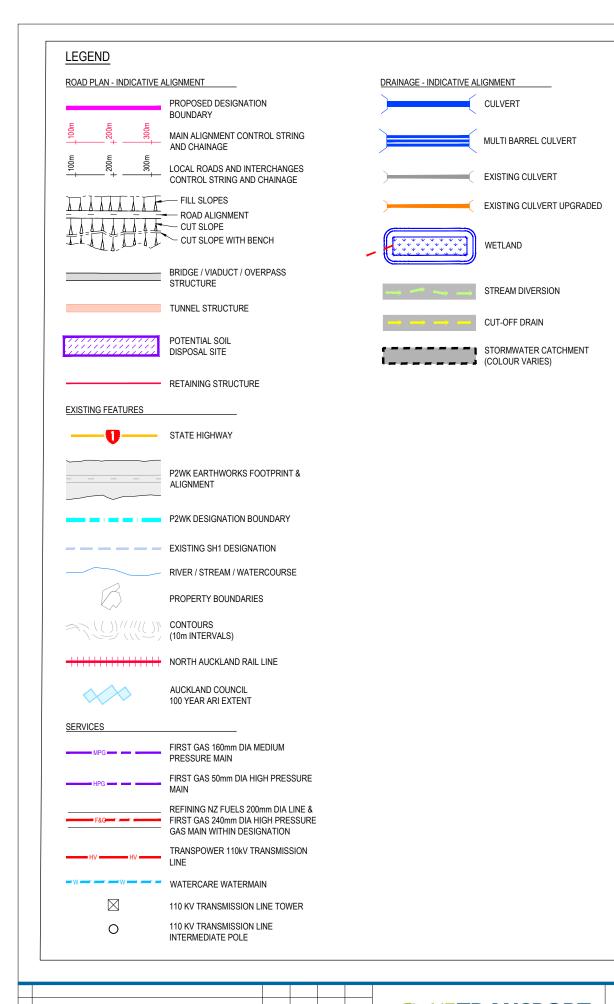




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•	Title	Title DRAWING INDEX SHEET 2 OF 2									
al Size	Contra	ict:	PA4156	Drawing No:	G-003	Sheet:	2 OF 2	Rev:	0		



# **GENERAL NOTES**

- 1. THE ALIGNMENT IS INDICATIVE ONLY.
- 2. ALL MEASUREMENTS ARE IN METRES UNLESS OTHERWISE STATED.
- 3. ALL NAMED ROADS ARE ASSUMED TO BE PUBLIC UNLESS STATED OTHERWISE.
- 4. AERIAL IMAGE FROM AUCKLAND COUNCIL AERIAL SURVEY, 2012.
- DIGITAL TERRAIN MODEL IS COMBINED FROM AERIAL SURVEY (AUG 2010) & AUCKLAND COUNCIL 5. LIDAR DATA TO NZTM PROJECTION.
- 6. EXISTING PROPERTY BOUNDARIES SOURCED FROM LINZ, MAY 2019 UPDATE.
- 7 ALL STREAMS WILL BE BRIDGED, CULVERTED AND/OR DIVERTED. REFER SW SERIES FOR INDICATIVE CULVERTS AND DIVERSION LOCATIONS.
- ALL SOIL DISPOSAL SITE LOCATIONS AND SHAPES ARE INDICATIVE ONLY. ALL SOIL DISPOSAL SITE 8. WORKS ARE TO OCCUR OUTSIDE OF ANY STREAM CHANNEL.
- 9. NO CULVERTS LONGER THAN 30m WILL BE LOCATED IN A SIGNIFICANT ECOLOGICAL AREA (SEA) AS IDENTIFIED IN THE AUCKLAND UNITARY PLAN.

### **OPERATIONAL WATER MANAGEMENT NOTES**

- SOME EXISTING CULVERTS BENEATH STATE HIGHWAY 1 ARE SHOWN, WHERE INDICATIVE DESIGN PROPOSES UPGRADES TO THESE CULVERTS. OTHER EXISTING CULVERTS BENEATH STATE HIGHWAY 1 MAY NOT BE SHOWN.
- 2. 100 YEAR ARI HEADWATER EXTENTS ARE NOT SHOWN AT SOIL DISPOSAL SITES, AS THE FINAL SURFACE PROFILE IS SUBJECT TO DETAILED DESIGN.
- 3. 100 YEAR ARI FLOOD EXTENTS SHOWN ARE BASED ON AUCKLAND COUNCIL GIS LAYER, JULY 2013, AND THEREFORE ARE WITHOUT THE PROJECT IN PLACE.
- 4 WATER MANAGEMENT IS NOT SHOWN FOR ACCESS TRACKS, SUCH AS THOSE PROVIDING ACCESS TO THE INDICATIVE ALIGNMENT WITHIN THE FORESTRY AREA. CROSS DRAINAGE IS TO BE MANAGED BY CULVERTING, LONGITUDINAL DRAINAGE IS TO BE MANAGED BY VEGETATED ROADSIDE DRAINS.
- NO CULVERTS LONGER THAN 30m WILL BE LOCATED IN A SIGNIFICANT ECOLOGICAL AREA (SEA) AS 5. IDENTIFIED IN THE AUCKLAND UNITARY PLAN. CULVERTS LOCATIONS ARE INDICATIVE ONLY.
- CULVERT INFORMATION REFER TO CULVERT SUMMARY TABLE IN STORMWATER REPORT. 6
- WETLAND SHAPE IS INDICATIVE ONLY TO PRESENT PROPOSED LOCATION AND SIZING. SHAPING TO 7 CONTOURS IS SUBJECT TO DETAILED DESIGN.
- STREAM DIVERSIONS AND CUT OFF DRAINS ARE BASED OFF EXISTING CONTOURS. WHERE A SOIL 8. DISPOSAL SITE IS TO BE USED, THE STREAM DIVERSION OR CUT OFF DRAIN SHALL BE AMENDED TO SUIT.

### SERVICES NOTES

- POWER DISTRIBUTION AND COMMUNICATION CABLING (i.e. VECTOR, CHORUS, SPARK, VODAFONE) ROUTES ARE NOT SHOWN. AFFECTED ASSETS WILL BE RELOCATED OR PROTECTED
- THE SERVICES SHOWN SHOULD BE CONSIDERED INDICATIVE ONLY AND ARE BASED ON RECORDS 2 SUPPLIED BY THE UTILITY COMPANIES. PRIVATE SERVICES AND CONNECTIONS ARE NOT SHOWN.



Cad File No: W:W2W Designation and Resource Consents/02 Phase 2 Pre Lodgement/2.1 Engineering Design/2.1.3 Focused Design/2.1.3.8 CAD (drawings production)/PA4156-G-010\_LM.dwg

No Revision Note: \* indicates signatures on original issue of drawing or last revision of drawing Drawn Checked Approved Date

WAS FCW\* BN\* 07/19

TRANSPORT

AGENCY

WAKA KOTAHI

Plot Date: 3 July 2019 - 12:39 PM

0 ISSUED FOR RMA APPROVALS

# GLOSSARY

ARI = ANNUAL RECURRENCE INTERVAL MSE = MECHANICALLY STABILISED EARTH P2WK = PUHOI TO WARKWORTH PROJECT

> ALL INFORMATION SHOWN IS SUBJECT TO FINAL DESIGN AND THE DETAILS MAY CHANGE. AREAS AND MEASUREMENTS ARE SUBJECT TO SURVEY

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