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# MURIWAI VALLEY GOLF COURSE ENGINEERING DRAWINGS

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THE BEARS HOME PROJECT LIMITED

MCKENZIE & CO. PROJECT NO  
DATE OF ISSUE  
ISSUE STATUS

1976-1 & 1976-L1 & 1976-CH1 & 1976-AC1 & 1976-R1  
MARCH 2022  
S92 RESPONSE

# MURIWAI VALLEY GOLF COURSE EARTHWORKS DRAWINGS

THE BEARS HOME PROJECT LIMITED

DRAWING No.	DRAWING NAME	REV.							
1976-1-000	COVER DRAWING	D	1976-1-208	PROPOSED EARTHWORKS FINAL CONTOURS LAYOUT PLAN SHEET 8	D	1976-1-242	PROPOSED EARTHWORKS EROSION SEDIMENT CONTROL LAYOUT PLAN SHEET 12	D	
1976-1-001	INDEX DRAWING - EARTHWORKS	D	1976-1-209	PROPOSED EARTHWORKS FINAL CONTOURS LAYOUT PLAN SHEET 9	D	1976-1-243	PROPOSED EARTHWORKS EROSION SEDIMENT CONTROL LAYOUT PLAN SHEET 13	D	
1976-1-050	EXISTING TOPOGRAPHY OVERALL PLAN	C	1976-1-210	PROPOSED EARTHWORKS FINAL CONTOURS LAYOUT PLAN SHEET 10	D		<b>BRIDGE</b>		
1976-1-051	EXISTING TOPOGRAPHY LAYOUT PLAN SHEET 1	D	1976-1-211	PROPOSED EARTHWORKS FINAL CONTOURS LAYOUT PLAN SHEET 11	D	1976-1-280	PROPOSED EARTHWORKS BRIDGE CROSSING DETAILS OVERALL PLAN	C	
1976-1-052	EXISTING TOPOGRAPHY LAYOUT PLAN SHEET 2	C	1976-1-212	PROPOSED EARTHWORKS FINAL CONTOURS LAYOUT PLAN SHEET 12	D	1976-1-281	PROPOSED EARTHWORKS BRIDGE CROSSING DETAILS BRIDGE 1 HOLE 6/7 SHEET 1	C	
1976-1-150	FLOOD PLAIN EXTENT OF WORKS OVERALL PLAN	A	1976-1-213	PROPOSED EARTHWORKS FINAL CONTOURS LAYOUT PLAN SHEET 13	D	1976-1-282	PROPOSED EARTHWORKS BRIDGE CROSSING DETAILS BRIDGE 2 HOLE 7/8 SHEET 2	C	
1976-1-151	FLOOD PLAIN EXTENT OF WORKS LAYOUT PLAN SHEET 1	A	1976-1-215	PROPOSED EARTHWORKS CUT/FILL ISOPAC OVERALL PLAN	D	1976-1-283	PROPOSED EARTHWORKS BRIDGE CROSSING DETAILS BRIDGE 3 HOLE 7/8 SHEET 3	C	
1976-1-152	FLOOD PLAIN EXTENT OF WORKS LAYOUT PLAN SHEET 2	A	1976-1-216	PROPOSED EARTHWORKS CUT/FILL ISOPAC LAYOUT PLAN SHEET 1	C	1976-1-284	PROPOSED EARTHWORKS BRIDGE CROSSING DETAILS BRIDGE 4 HOLE 1/9 SHEET 4	C	
1976-1-153	FLOOD PLAIN EXTENT OF WORKS LAYOUT PLAN SHEET 3		1976-1-217	PROPOSED EARTHWORKS CUT/FILL ISOPAC LAYOUT PLAN SHEET 2	C	1976-1-285	PROPOSED EARTHWORKS BRIDGE CROSSING DETAILS BRIDGE 5 HOLE 10/11 SHEET 5	C	
1976-1-180	CLEARING PLAN OVERALL PLAN	D	1976-1-218	PROPOSED EARTHWORKS CUT/FILL ISOPAC LAYOUT PLAN SHEET 3	C	1976-1-286	PROPOSED EARTHWORKS BRIDGE CROSSING DETAILS BRIDGE 6 HOLE 17/18 SHEET 6	C	
1976-1-181	CLEARING PLAN LAYOUT PLAN SHEET 1	D	1976-1-219	PROPOSED EARTHWORKS CUT/FILL ISOPAC LAYOUT PLAN SHEET 4	D	1976-1-287	PROPOSED EARTHWORKS BRIDGE CROSSING DETAILS BRIDGE 7 HOLE 17/18 SHEET 7	C	
1976-1-182	CLEARING PLAN LAYOUT PLAN SHEET 2	D	1976-1-220	PROPOSED EARTHWORKS CUT/FILL ISOPAC LAYOUT PLAN SHEET 5	C	1976-1-288	PROPOSED EARTHWORKS BRIDGE CROSSING DETAILS BRIDGE 8 HOLE 18 SHEET 8	C	
1976-1-183	CLEARING PLAN LAYOUT PLAN SHEET 3	D	1976-1-221	PROPOSED EARTHWORKS CUT/FILL ISOPAC LAYOUT PLAN SHEET 6	C	1976-1-289	PROPOSED EARTHWORKS BRIDGE CROSSING DETAILS BRIDGE 9 HOLE 13/14 SHEET 9	C	
1976-1-184	CLEARING PLAN LAYOUT PLAN SHEET 4	D	1976-1-222	PROPOSED EARTHWORKS CUT/FILL ISOPAC LAYOUT PLAN SHEET 7	C	1976-1-290	PROPOSED EARTHWORKS BRIDGE CROSSING DETAILS BRIDGE 10 HOLE 14 SHEET 10	C	
1976-1-185	CLEARING PLAN LAYOUT PLAN SHEET 5	D	1976-1-223	PROPOSED EARTHWORKS CUT/FILL ISOPAC LAYOUT PLAN SHEET 8	C	1976-1-291	PROPOSED EARTHWORKS BRIDGE CROSSING DETAILS BRIDGE 11 HOLE 16/17 SHEET 11	C	
1976-1-186	CLEARING PLAN LAYOUT PLAN SHEET 6	D	1976-1-224	PROPOSED EARTHWORKS CUT/FILL ISOPAC LAYOUT PLAN SHEET 9	D	1976-1-292	PROPOSED EARTHWORKS BRIDGE CROSSING DETAILS BRIDGE 12 HOLE 14/15 SHEET 12	C	
1976-1-187	CLEARING PLAN LAYOUT PLAN SHEET 7	D	1976-1-225	PROPOSED EARTHWORKS CUT/FILL ISOPAC LAYOUT PLAN SHEET 10	C	1976-1-293	PROPOSED EARTHWORKS BRIDGE CROSSING DETAILS BRIDGE 13 HOLE 15/16 SHEET 13	C	
1976-1-188	CLEARING PLAN LAYOUT PLAN SHEET 8	D	1976-1-226	PROPOSED EARTHWORKS CUT/FILL ISOPAC LAYOUT PLAN SHEET 11	C	1976-1-294	PROPOSED EARTHWORKS BRIDGE CROSSING DETAILS BRIDGE 14 HOLE 18 SHEET 14	C	
1976-1-189	CLEARING PLAN LAYOUT PLAN SHEET 9	D	1976-1-227	PROPOSED EARTHWORKS CUT/FILL ISOPAC LAYOUT PLAN SHEET 12	C	1976-1-295	PROPOSED EARTHWORKS EROSION AND SEDIMENT CONTROL DETAILS DRAWING 1	C	
1976-1-190	CONTAMINATED KAURI DIEBACK DISTURBANCE AREA OVERALL LAYOUT PLAN	D	1976-1-228	PROPOSED EARTHWORKS CUT/FILL ISOPAC LAYOUT PLAN SHEET 13	C	1976-1-296	PROPOSED EARTHWORKS EROSION AND SEDIMENT CONTROL DETAILS DRAWING 2	C	
1976-1-191	CONTAMINATED KAURI DIEBACK DISTURBANCE AREA LAYOUT PLAN SHEET 1	D	1976-1-230	PROPOSED EARTHWORKS EROSION SEDIMENT CONTROL OVERALL PLAN	D	1976-1-297	PROPOSED EARTHWORKS EROSION AND SEDIMENT CONTROL DETAILS DRAWING 3	C	
1976-1-192	CONTAMINATED KAURI DIEBACK DISTURBANCE AREA LAYOUT PLAN SHEET 2	D	1976-1-231	PROPOSED EARTHWORKS EROSION SEDIMENT CONTROL LAYOUT PLAN SHEET 1	D		<b>WATER RESERVIOR</b>		
1976-1-200	PROPOSED EARTHWORKS FINAL CONTOURS OVERALL PLAN	D	1976-1-232	PROPOSED EARTHWORKS EROSION SEDIMENT CONTROL LAYOUT PLAN SHEET 2	D	1976-R1-150	EXISTING TOPOGRAPHY SITE CLEARING LAYOUT PLAN	B	
1976-1-201	PROPOSED EARTHWORKS FINAL CONTOURS LAYOUT PLAN SHEET 1	D	1976-1-233	PROPOSED EARTHWORKS EROSION SEDIMENT CONTROL LAYOUT PLAN SHEET 3	D	1976-R1-200	PROPOSED EARTHWORKS CONTOURS PLAN	B	
1976-1-202	PROPOSED EARTHWORKS FINAL CONTOURS LAYOUT PLAN SHEET 2	D	1976-1-234	PROPOSED EARTHWORKS EROSION SEDIMENT CONTROL LAYOUT PLAN SHEET 4	D	1976-R1-210	PROPOSED EARTHWORKS CUT/FILL PLAN	B	
1976-1-203	PROPOSED EARTHWORKS FINAL CONTOURS LAYOUT PLAN SHEET 3	D	1976-1-235	PROPOSED EARTHWORKS EROSION SEDIMENT CONTROL LAYOUT PLAN SHEET 5	D	1976-R1-230	PROPOSED EARTHWORKS CONTOURS PLAN	B	
1976-1-204	PROPOSED EARTHWORKS FINAL CONTOURS LAYOUT PLAN SHEET 4	D	1976-1-236	PROPOSED EARTHWORKS EROSION SEDIMENT CONTROL LAYOUT PLAN SHEET 6	D	1976-R1-260	PROPOSED EARTHWORKS TYPICAL SECTIONS	B	
1976-1-205	PROPOSED EARTHWORKS FINAL CONTOURS LAYOUT PLAN SHEET 5	D	1976-1-237	PROPOSED EARTHWORKS EROSION SEDIMENT CONTROL LAYOUT PLAN SHEET 7	D		<b>IRRIGATION POND</b>		
1976-1-206	PROPOSED EARTHWORKS FINAL CONTOURS LAYOUT PLAN SHEET 6	D	1976-1-238	PROPOSED EARTHWORKS EROSION SEDIMENT CONTROL LAYOUT PLAN SHEET 8	D	1976-P-100	EXISTING TOPOGRAPHY SITE CONTEXT PLAN	A	
1976-1-207	PROPOSED EARTHWORKS FINAL CONTOURS LAYOUT PLAN SHEET 7	D	1976-1-239	PROPOSED EARTHWORKS EROSION SEDIMENT CONTROL LAYOUT PLAN SHEET 9	D	1976-P-200	PROPOSED EARTHWORKS CONTOURS PLAN	A	
			1976-1-240	PROPOSED EARTHWORKS EROSION SEDIMENT CONTROL LAYOUT PLAN SHEET 10	D	1976-P-210	PROPOSED EARTHWORKS CUT/FILL PLAN	A	
			1976-1-241	PROPOSED EARTHWORKS EROSION SEDIMENT CONTROL LAYOUT PLAN SHEET 11	D	1976-P-230	PROPOSED EARTHWORKS SEDIMENT EROSION CONTROL PLAN	A	

# MURIWAI VALLEY GOLF COURSE CIVIL WORKS DRAWINGS - SHEET 1

THE BEARS HOME PROJECT LIMITED

DRAWING No.	DRAWING NAME	REV.
1976-1-000	COVER DRAWING	D
1976-1-002	INDEX DRAWING - CIVIL WORKS SHEET 1	D
1976-1-003	INDEX DRAWING - CIVIL WORKS SHEET 2	D
1976-1-050	EXISTING TOPOGRAPHY OVERALL PLAN	C
1976-1-051	EXISTING TOPOGRAPHY LAYOUT PLAN SHEET 1	D
1976-1-052	EXISTING TOPOGRAPHY LAYOUT PLAN SHEET 2	C
1976-1-060	FUTURE GRAZING AREA OVERALL PLAN	B
1976-1-150	FLOOD PLAIN EXTENT OF WORKS OVERALL PLAN	A
1976-1-151	FLOOD PLAIN EXTENT OF WORKS LAYOUT PLAN SHEET 1	A
1976-1-152	FLOOD PLAIN EXTENT OF WORKS LAYOUT PLAN SHEET 2	A
1976-1-153	FLOOD PLAIN EXTENT OF WORKS LAYOUT PLAN SHEET 3	
1976-1-300	PROPOSED ROADING OVERALL PLAN	C
1976-L1-300A	PROPOSED ROADING GOLF LODGE OVERALL PLAN SHEET 1	C
1976-L1-301	PROPOSED ROADING GOLF CLUBHOUSE LAYOUT PLAN SHEET 2	C
1976-L1-302	PROPOSED ROADING GOLF LODGE LAYOUT PLAN SHEET 3	C
1976-L1-303	PROPOSED ROADING GOLF LODGE LAYOUT PLAN SHEET 4	C
1976-L1-304A	PROPOSED ROADING GOLF LODGE LAYOUT PLAN SHEET 5	C
1976-L1-304B	PROPOSED ROADING GOLF LODGE LAYOUT PLAN SHEET 6	D
1976-L1-304C	PROPOSED ROADING GOLF LODGE LAYOUT PLAN SHEET 7	D
1976-L1-304D	PROPOSED ROADING GOLF LODGE LAYOUT PLAN SHEET 8	D
1976-CH1-305	PROPOSED ROADING GOLF CLUBHOUSE LAYOUT PLAN SHEET 9	C
1976-CH1-306	PROPOSED ROADING GOLF CLUBHOUSE LAYOUT PLAN SHEET 10	C
1976-CH1-307	PROPOSED ROADING GOLF CLUBHOUSE LAYOUT PLAN SHEET 11	C
1976-CH1-308A	PROPOSED ROADING GOLF CLUBHOUSE LAYOUT PLAN SHEET 12	D
1976-CH1-308B	PROPOSED ROADING GOLF CLUBHOUSE LAYOUT PLAN SHEET 13	D
1976-CH1-308C	PROPOSED ROADING GOLF CLUBHOUSE LAYOUT PLAN SHEET 14	C
1976-AC1-309	PROPOSED ROADING GOLF ACADEMY LAYOUT PLAN SHEET 15	C
1976-AC1-310	PROPOSED ROADING GOLF ACADEMY LAYOUT PLAN SHEET 16	C
1976-AC1-311A	PROPOSED ROADING GOLF ACADEMY LAYOUT PLAN SHEET 17	D
1976-AC1-311B	PROPOSED ROADING GOLF ACADEMY LAYOUT PLAN SHEET 18	C

1976-AC1-311C	PROPOSED ROADING GOLF ACADEMY LAYOUT PLAN SHEET 19	C
1976-1-315	PROPOSED ROADING INTERNAL ROADING TYPICAL CROSS SECTIONS	C
1976-1-320	PROPOSED ROADING ROAD WIDENING OVERALL PLAN	C
1976-1-321	PROPOSED ROADING MURIWAI ROAD WIDENING LAYOUT PLAN SHEET 1	C
1976-1-322	PROPOSED ROADING MURIWAI ROAD WIDENING LAYOUT PLAN SHEET 2	C
1976-1-323	PROPOSED ROADING MURIWAI ROAD SIGHT DISTANCE PLAN SHEET 1	A
1976-1-324	PROPOSED ROADING MURIWAI ROAD SIGHT DISTANCE PLAN SHEET 2	A
1976-1-325	PROPOSED ROADING MURIWAI ROAD WIDENING TYPICAL CROSS SECTIONS SHEET 1	D
1976-1-326	PROPOSED ROADING MURIWAI ROAD WIDENING TYPICAL CROSS SECTIONS SHEET 2	C
1976-1-340	PROPOSED ROADING LONGITUDINAL SECTIONS SHEET 1	C
1976-1-341	PROPOSED ROADING LONGITUDINAL SECTIONS SHEET 2	C
1976-1-342	PROPOSED ROADING LONGITUDINAL SECTIONS SHEET 3	C
1976-1-343	PROPOSED ROADING LONGITUDINAL SECTIONS SHEET 4	C
1976-1-344	PROPOSED ROADING LONGITUDINAL SECTIONS SHEET 5	C
1976-1-345	PROPOSED ROADING LONGITUDINAL SECTIONS SHEET 6	C
1976-1-346	PROPOSED ROADING LONGITUDINAL SECTIONS SHEET 7	C
1976-1-347	PROPOSED ROADING LONGITUDINAL SECTIONS SHEET 8	C
1976-1-348	PROPOSED ROADING LONGITUDINAL SECTIONS SHEET 9	C
1976-1-349	PROPOSED ROADING LONGITUDINAL SECTIONS SHEET 10	C
1976-1-350	PROPOSED ROADING LONGITUDINAL SECTIONS SHEET 11	C
1976-1-390	PROPOSED ROADING STANDARD DETAILS	C
1976-1-400	PROPOSED DRAINAGE STORMWATER NETWORK OVERALL PLAN	D
1976-L1-400A	PROPOSED DRAINAGE STORMWATER NETWORK GOLF LODGE OVERALL PLAN SHEET 1	D
1976-L1-401	PROPOSED DRAINAGE STORMWATER NETWORK GOLF LODGE LAYOUT PLAN SHEET 2	D
1976-L1-402	PROPOSED DRAINAGE STORMWATER NETWORK GOLF LODGE LAYOUT PLAN SHEET 3	D
1976-L1-403	PROPOSED DRAINAGE STORMWATER NETWORK GOLF LODGE LAYOUT PLAN SHEET 4	D
1976-L1-404A	PROPOSED DRAINAGE STORMWATER NETWORK GOLF LODGE LAYOUT PLAN SHEET 5	D
1976-L1-404B	PROPOSED DRAINAGE STORMWATER NETWORK GOLF LODGE LAYOUT PLAN SHEET 6	D
1976-L1-404C	PROPOSED DRAINAGE STORMWATER NETWORK GOLF LODGE LAYOUT PLAN SHEET 7	D
1976-CH1-405	PROPOSED DRAINAGE STORMWATER NETWORK GOLF CLUBHOUSE LAYOUT PLAN SHEET 8	D
1976-CH1-406	PROPOSED DRAINAGE STORMWATER NETWORK GOLF CLUBHOUSE LAYOUT PLAN SHEET 9	C

# MURIWAI VALLEY GOLF COURSE CIVIL WORKS DRAWINGS - SHEET 2

THE BEARS HOME PROJECT LIMITED

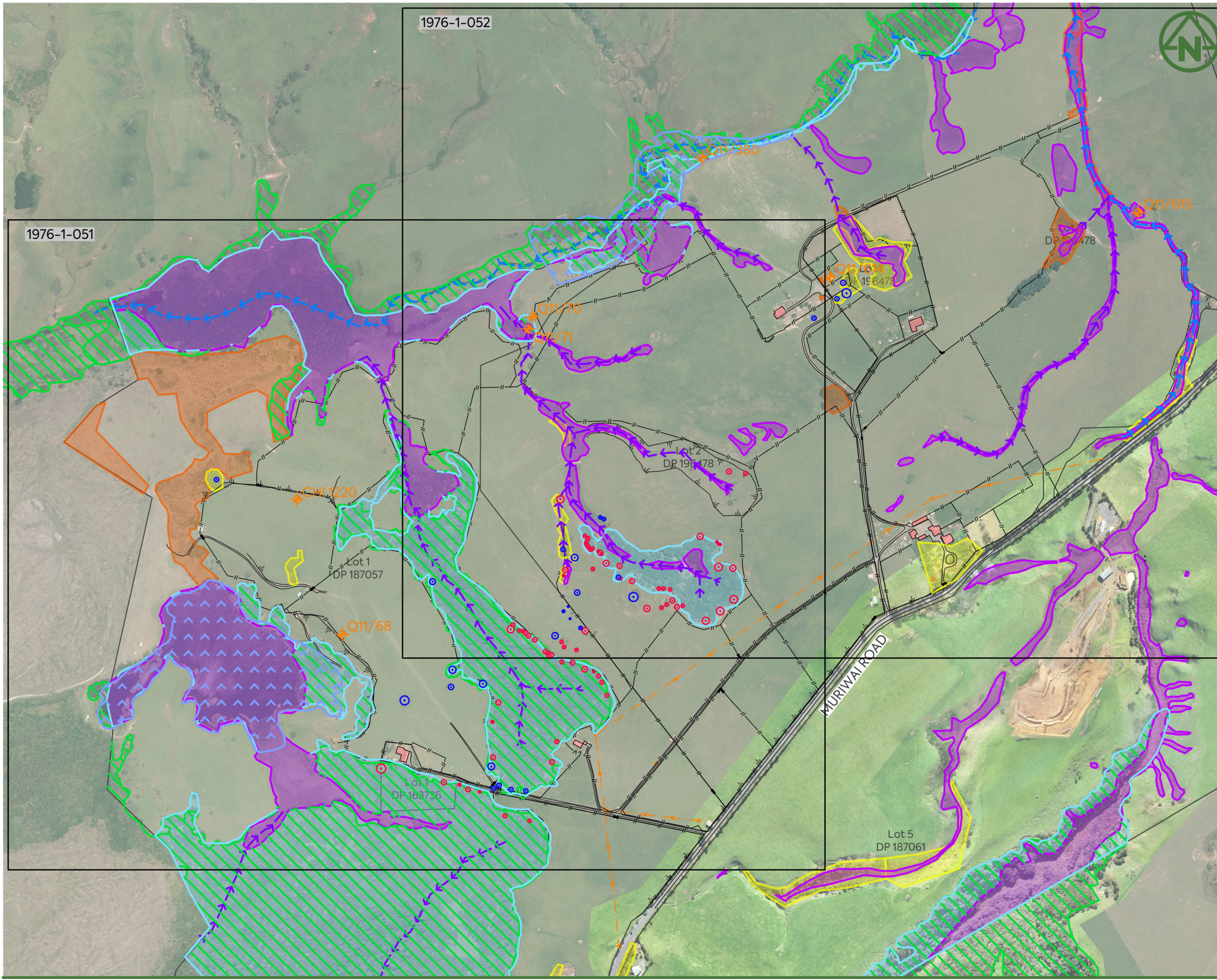
DRAWING No.	DRAWING NAME				
1976-CH1-407	PROPOSED DRAINAGE STORMWATER NETWORK GOLF CLUBHOUSE LAYOUT PLAN SHEET 10	C	1976-1-480	PROPOSED STORMWATER STORMWATER TREATMENT OVERALL PLAN	C
1976-CH1-408A	PROPOSED DRAINAGE STORMWATER NETWORK GOLF CLUBHOUSE LAYOUT PLAN SHEET 11	C	1976-L1-481A	PROPOSED STORMWATER STORMWATER TREATMENT RAINGARDEN (RG1) SHEET 1	C
1976-CH1-408B	PROPOSED DRAINAGE STORMWATER NETWORK GOLF CLUBHOUSE LAYOUT PLAN SHEET 12	C	1976-L1-481B	PROPOSED STORMWATER STORMWATER TREATMENT LINEAR SWALE SHEET 2	C
1976-AC1-409	PROPOSED DRAINAGE STORMWATER NETWORK GOLF ACADEMY LAYOUT PLAN SHEET 13	C	1976-L1-481C	PROPOSED STORMWATER STORMWATER TREATMENT RAINGARDEN (RG2) SHEET 3	C
1976-AC1-410	PROPOSED DRAINAGE STORMWATER NETWORK GOLF ACADEMY LAYOUT PLAN SHEET 14	C	1976-CH1-482	PROPOSED STORMWATER STORMWATER TREATMENT RAINGARDEN (RG3) SHEET 4	C
1976-AC1-411A	PROPOSED DRAINAGE STORMWATER NETWORK GOLF ACADEMY LAYOUT PLAN SHEET 15	C	1976-CH1-483	PROPOSED STORMWATER STORMWATER TREATMENT LINEAR SWALE SHEET 5	C
1976-AC1-411B	PROPOSED DRAINAGE STORMWATER NETWORK GOLF ACADEMY LAYOUT PLAN SHEET 16	C	1976-AC1-484	PROPOSED STORMWATER STORMWATER TREATMENT LINEAR SWALE SHEET 6	C
1976-AC1-411C	PROPOSED DRAINAGE STORMWATER NETWORK GOLF ACADEMY LAYOUT PLAN SHEET 17	C	1976-AC1-485A	PROPOSED STORMWATER STORMWATER TREATMENT RAINGARDEN (RG4) SHEET 7	C
1976-1-420	PROPOSED STORMWATER LONGSECTIONS SHEET 1	D	1976-AC1-485B	PROPOSED STORMWATER STORMWATER TREATMENT RAINGARDEN (RG5) SHEET 8	C
1976-1-421	PROPOSED STORMWATER LONGSECTIONS SHEET 2	D	1976-1-486	PROPOSED STORMWATER STORMWATER TREATMENT TYPICAL DETAILS	C
1976-1-422	PROPOSED STORMWATER LONGSECTIONS SHEET 3	D	1976-1-490	PROPOSED DRAINAGE STORMWATER STANDARD DETAILS SHEET 1	C
1976-1-423	PROPOSED STORMWATER LONGSECTIONS SHEET 4	D	1976-1-491	PROPOSED DRAINAGE STORMWATER STANDARD DETAILS SHEET 2	C
1976-1-424	PROPOSED STORMWATER LONGSECTIONS SHEET 5	D	1976-1-500	PROPOSED DRAINAGE WASTEWATER NETWORK OVERALL PLAN	D
1976-1-425	PROPOSED STORMWATER LONGSECTIONS SHEET 6	D	1976-L1-501	PROPOSED DRAINAGE WASTEWATER NETWORK GOLF LODGE OVERALL PLAN SHEET 1	D
1976-1-426	PROPOSED STORMWATER LONGSECTIONS SHEET 7	D	1976-CH1-502	PROPOSED DRAINAGE WASTEWATER NETWORK GOLF CLUBHOUSE LAYOUT PLAN SHEET 2	D
<del>1976-1-427</del>	<del>PROPOSED STORMWATER LONGSECTIONS SHEET 8</del>	<del>C</del>	1976-L1-503	PROPOSED DRAINAGE WASTEWATER NETWORK GOLF LODGE LAYOUT PLAN SHEET 3	D
1976-1-430	PROPOSED DRAINAGE STORMWATER NETWORK HOLE 18 CULVERT 1 DETAILS PLAN	C	1976-L1-504	PROPOSED DRAINAGE WASTEWATER NETWORK GOLF LODGE LAYOUT PLAN SHEET 4	D
1976-1-431	PROPOSED DRAINAGE STORMWATER NETWORK HOLE 17 CULVERT 2 DETAILS PLAN	C	1976-CH1-505	PROPOSED DRAINAGE WASTEWATER NETWORK GOLF CLUBHOUSE LAYOUT PLAN SHEET 5	D
1976-1-432	PROPOSED DRAINAGE STORMWATER NETWORK HOLE 16 CULVERT 3 DETAILS PLAN	C	1976-CH1-506	PROPOSED DRAINAGE WASTEWATER NETWORK GOLF CLUBHOUSE LAYOUT PLAN SHEET 6	D
1976-1-435	PROPOSED DRAINAGE STORMWATER NETWORK OUTLET STRUCTURES TO STREAM	C	1976-AC1-507	PROPOSED DRAINAGE WASTEWATER NETWORK GOLF ACADEMY LAYOUT PLAN SHEET 7	D
1976-1-450	PROPOSED DRAINAGE Q100 PRE DEVELOPMENT STORMWATER CATCHMENT OVERALL PLAN	C	1976-AC1-508	PROPOSED DRAINAGE WASTEWATER NETWORK GOLF ACADEMY LAYOUT PLAN SHEET 8	D
1976-1-451	PROPOSED DRAINAGE Q100 PRE DEVELOPMENT STORMWATER CATCHMENT LAYOUT PLAN - SHEET 1	C	1976-CH1-510	PROPOSED DRAINAGE WASTEWATER NETWORK GOLF CLUBHOUSE LAYOUT PLAN SHEET 9	F
1976-1-452	PROPOSED DRAINAGE Q100 PRE DEVELOPMENT STORMWATER CATCHMENT LAYOUT PLAN - SHEET 2	C	1976-CH1-511	CONCEPTUAL LAYOUT OF WASTEWATER TREATMENT PLAN SHEET 10	E
1976-1-453	PROPOSED DRAINAGE Q100 PRE DEVELOPMENT STORMWATER CALCULATION DATA TABLE	A	1976-CH1-512	PROPOSED DRAINAGE WASTEWATER NETWORK GOLF CLUBHOUSE LAYOUT PLAN SHEET 11	A
1976-1-455	PROPOSED DRAINAGE Q100 POST DEVELOPMENT STORMWATER CATCHMENT OVERALL PLAN	C	1976-1-513	PROPOSED DRAINAGE WASTEWATER NETWORK LAYOUT PLAN SHEET 12	A
1976-1-456	PROPOSED DRAINAGE Q100 POST DEVELOPMENT STORMWATER CATCHMENT LAYOUT PLAN - SHEET 1	C	1976-1-514	PROPOSED DRAINAGE WASTEWATER NETWORK LAYOUT PLAN SHEET 13	A
1976-1-457	PROPOSED DRAINAGE Q100 POST DEVELOPMENT STORMWATER CATCHMENT LAYOUT PLAN - SHEET 2	C	<del>1976-1-520</del>	<del>PROPOSED WASTEWATER LONGSECTIONS SHEET 1</del>	<del>C</del>
1976-1-458	PROPOSED DRAINAGE Q100 POST DEVELOPMENT STORMWATER CALCULATION DATA TABLE	A	<del>1976-1-521</del>	<del>PROPOSED WASTEWATER LONGSECTIONS SHEET 2</del>	<del>C</del>
1976-1-459	PROPOSED DRAINAGE Q100 PRE VS POST DEVELOPMENT STORMWATER CALCULATION DATA TABLE	A	<del>1976-1-522</del>	<del>PROPOSED WASTEWATER LONGSECTIONS SHEET 3</del>	<del>C</del>
1976-1-460	PROPOSED DRAINAGE NETWORK CULVERT CATCHMENT OVERALL PLAN	C	<del>1976-1-523</del>	<del>PROPOSED WASTEWATER LONGSECTIONS SHEET 4</del>	<del>C</del>
			<del>1976-1-524</del>	<del>PROPOSED WASTEWATER LONGSECTIONS SHEET 5</del>	<del>C</del>

# MURIWAI VALLEY GOLF COURSE CIVIL WORKS DRAWINGS - SHEET 3

## THE BEARS HOME PROJECT LIMITED

DRAWING No.	DRAWING NAME	
1976-1-590	WASTEWATER STANDARD DETAILS SHEET 1	C
1976-1-591	WASTEWATER STANDARD DETAILS SHEET 2	C
1976-1-597	WASTEWATER STANDARD DETAILS SHEET 3	C
1976-1-600	PROPOSED WATER SUPPLY OVERALL PLAN	C
1976-L1-600A	PROPOSED WATER SUPPLY GOLF LODGE OVERALL PLAN SHEET 1	C
1976-CH1-601	PROPOSED WATER SUPPLY GOLF CLUBHOUSE LAYOUT PLAN SHEET 2	C
1976-L1-602	PROPOSED WATER SUPPLY GOLF LODGE LAYOUT PLAN SHEET 3	C
1976-L1-603	PROPOSED WATER SUPPLY GOLF LODGE LAYOUT PLAN SHEET 4	C
1976-CH1-604	PROPOSED WATER SUPPLY GOLF CLUBHOUSE LAYOUT PLAN SHEET 5	C
1976-CH1-605	PROPOSED WATER SUPPLY GOLF CLUBHOUSE LAYOUT PLAN SHEET 6	C
1976-CH1-606	PROPOSED WATER SUPPLY GOLF CLUBHOUSE LAYOUT PLAN SHEET 7	C
1976-CH1-607A	PROPOSED WATER SUPPLY GOLF CLUBHOUSE LAYOUT PLAN SHEET 8	C
1976-AC1-608	PROPOSED WATER SUPPLY GOLF ACADEMY LAYOUT PLAN SHEET 9	C
1976-AC1-609	PROPOSED WATER SUPPLY GOLF ACADEMY LAYOUT PLAN SHEET 10	D
1976-AC1-610A	PROPOSED WATER SUPPLY GOLF ACADEMY LAYOUT PLAN SHEET 11	D
1976-1-690	PROPOSED WATER SUPPLY STANDARD DETAILS SHEET 1	C
1976-1-691	PROPOSED WATER SUPPLY STANDARD DETAILS SHEET 2	C
1976-1-692	PROPOSED WATER SUPPLY STANDARD DETAILS SHEET 3	C
1976-1-800	PROPOSED UTILITY OVERALL PLAN	D
1976-1-801	PROPOSED UTILITY GOLF CLUBHOUSE LAYOUT PLAN SHEET 1	D
1976-L1-802	PROPOSED UTILITY GOLF CLUBHOUSE LAYOUT PLAN SHEET 2	C
1976-L1-803	PROPOSED UTILITY GOLF LODGE LAYOUT PLAN SHEET 3	C
1976-L1-804	PROPOSED UTILITY GOLF LODGE LAYOUT PLAN SHEET 4	C
1976-CH1-805	PROPOSED UTILITY GOLF CLUBHOUSE LAYOUT PLAN SHEET 5	D
1976-CH1-806	PROPOSED UTILITY GOLF CLUBHOUSE LAYOUT PLAN SHEET 6	C
1976-AC1-807	PROPOSED UTILITY GOLF ACADEMY LAYOUT PLAN SHEET 7	D
1976-AC1-808	PROPOSED UTILITY GOLF ACADEMY LAYOUT PLAN SHEET 8	C
1976-1-809	PROPOSED UTILITY GOLF CLUBHOUSE LAYOUT PLAN SHEET 9	C
	<b>WATER RESERVIOR</b>	
1976-R1-350	WATER RESERVIOR SPILLWAY DETAIL SHEET 1	B

1976-R1-351	WATER RESERVIOR INTAKE/OUTLET PIPE DETAIL SHEET 2	B
1976-R1-352	WATER RESERVIOR INTAKE/OUTLET PIPE DETAIL SHEET 3	B
1976-R1-450	PROPOSED DRAINAGE Q100 PRE DEVELOPMENT STORMWATER CATCHMENT	B
1976-R1-455	PROPOSED DRAINAGE Q100 POST DEVELOPMENT STORMWATER CATCHMENT	B
1976-R1-610	RESERVIOR PLAN AND WATER TAKE LOCATION OVERALL PLAN	C
1976-R1-611	RESERVIOR PLAN AND WATER TAKE LOCATION SHEET 1	C
1976-R1-612	RESERVIOR PLAN AND WATER TAKE LOCATION SHEET 2	C
1976-R1-613	RESERVIOR PLAN AND WATER TAKE LOCATION SHEET 3	C
1976-R1-614	RESERVIOR PLAN AND WATER TAKE LOCATION SHEET 4	C
1976-R1-615	RESERVIOR PLAN AND WATER TAKE LOCATION SHEET 5	C
1976-R1-616	RESERVIOR PLAN AND WATER TAKE LOCATION SHEET 6	C
	<b>IRRIGATION POND</b>	
1976-P-260	WATER SUPPLY POND DETAIL IRRIGATION PLAN VIEW SHEET 1	C
1976-P-261	WATER SUPPLY POND DETAIL SHEET 2	C
1976-P-262	WATER SUPPLY POND DETAIL SHEET 3	A



**NOTES:**

1. LEVELS ARE IN TERMS OF AUCKLAND VERTICAL DATUM 1946 (MSL). THE CONTOUR INTERVAL IS: 1.0m
2. ALL TREES AND ASSOCIATED FENCING NOT IDENTIFIED FOR RETENTION WITHIN THE WORKS AREA ARE TO BE REMOVED.
3. TREES THAT ARE NOTED TO BE RETAINED SHALL BE IDENTIFIED ON SITE AND FENCED AROUND THE DRIPLINE FOR PROTECTION.
4. THE CONTRACTOR IS TO REMOVE ANY SEPTIC TANKS AND FIELDS PRIOR TO EARTHWORKS. THE AREA IS TO BE ASBULTED AND CERTIFIED BY THE GEOTECHNIC ENGINEER PRIOR TO BACKFILLING.
5. ANY ASBESTOS OR CONTAMINATED MATERIAL IS TO BE REMOVED FROM SITE IN ACCORDANCE WITH THE COUNCIL APPROVED REMEDIATION ACTION PLAN.
6. NATIVE VEGETATION WITHIN WATER COURSE / ESPLANADE RESERVE TO REMAIN. UNLESS NOTED OTHERWISE.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING APPROVAL FROM LOCAL AUTHORITIES FOR THE DIS-ESTABLISHMENT OF POWER LINES AND POLES.
8. ALL VEGETATION AND WETLANDS SHOWN ARE BASED ON INFORMATION PROVIDED BY RMA ECOLOGISTS LTD.

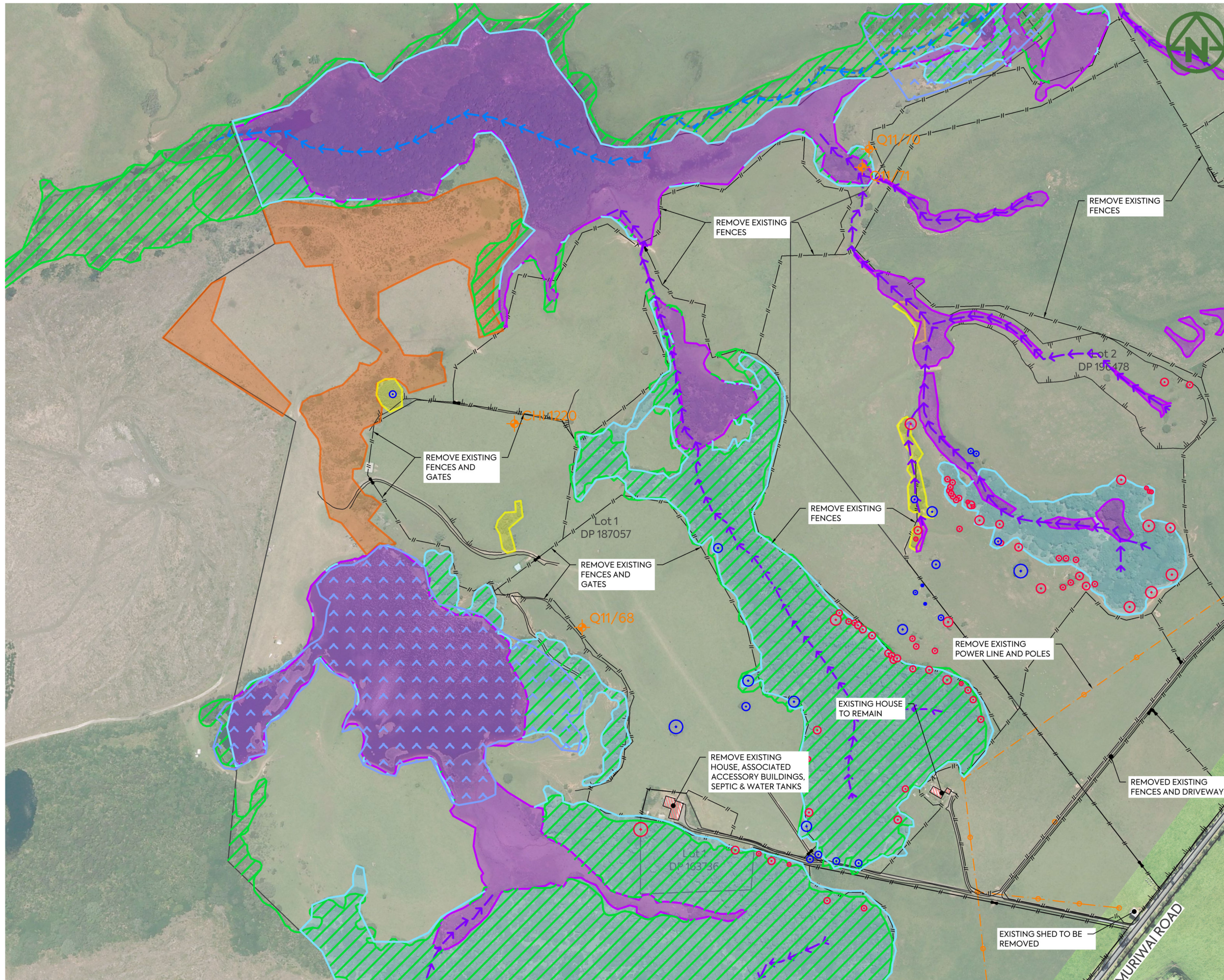
**LEGEND:**

- EXISTING FENCES & GATES (TO BE CLEARED)
- EXISTING STRUCTURE (TO BE CLEARED)
- EXISTING POWERLINE & POWER POLE
- PERMANENT STREAM
- INTERMITTENT STREAM
- EXISTING WETLANDS (TO BE PROTECTED)
- COUNCIL SEA AREA
- COUNCIL ONF AREA
- MAPPED SEA/ONF (BY ECOLOGIST)
- EXOTIC VEGETATION AREA
- INDIGENOUS VEGETATION (NON SEA)
- EXISTING KAURI TREE (TO BE CONFIRMED)
- EXISTING TREE OF INTEREST (TO BE CONFIRMED)
- ARCHAEOLOGICAL SITE (TO BE CONFIRMED)

1976-1-051

1976-1-052

<table border="0" style="width: 100%;"> <tr> <td style="width: 10%;">D</td> <td style="width: 60%;">S92 RESPONSE</td> <td style="width: 10%;">MO</td> <td style="width: 10%;">CIM</td> <td style="width: 10%;">JSD</td> <td style="width: 10%;">04/03/22</td> </tr> <tr> <td>C</td> <td>ISSUED FOR CONSENT</td> <td>MO</td> <td>CIM</td> <td>JSD</td> <td>26/11/21</td> </tr> <tr> <td>B</td> <td>SECOND ISSUE</td> <td>MO</td> <td>CIM</td> <td>JSD</td> <td>29/10/21</td> </tr> <tr> <td>A</td> <td>FIRST ISSUE</td> <td>MO</td> <td>CIM</td> <td>JSD</td> <td>24/08/21</td> </tr> <tr> <td>REV</td> <td>DESCRIPTION</td> <td>DRN BY</td> <td>CHK BY</td> <td>APP BY</td> <td>DATE</td> </tr> </table>	D	S92 RESPONSE	MO	CIM	JSD	04/03/22	C	ISSUED FOR CONSENT	MO	CIM	JSD	26/11/21	B	SECOND ISSUE	MO	CIM	JSD	29/10/21	A	FIRST ISSUE	MO	CIM	JSD	24/08/21	REV	DESCRIPTION	DRN BY	CHK BY	APP BY	DATE	<p><b>MCKENZIE &amp; CO.</b></p>	<p>CLIENT: THE BEARS HOME PROJECT MANAGEMENT LTD</p> <p>PROJECT: MURIWAI DOWNS GOLF PROJECT 610 &amp; 697 MURIWAI ROAD MURIWAI VALLEY</p>	<p>TITLE: EXISTING TOPOGRAPHY OVERALL PLAN</p>	<p>PURPOSE OF ISSUE: FOR CONSENT</p>	<p>SCALE: 1:7500 @ A3</p> <p>DO NOT SCALE</p> <p>DRAWING NO: 1976-1-050</p> <p>REV: D</p>
D	S92 RESPONSE	MO	CIM	JSD	04/03/22																														
C	ISSUED FOR CONSENT	MO	CIM	JSD	26/11/21																														
B	SECOND ISSUE	MO	CIM	JSD	29/10/21																														
A	FIRST ISSUE	MO	CIM	JSD	24/08/21																														
REV	DESCRIPTION	DRN BY	CHK BY	APP BY	DATE																														

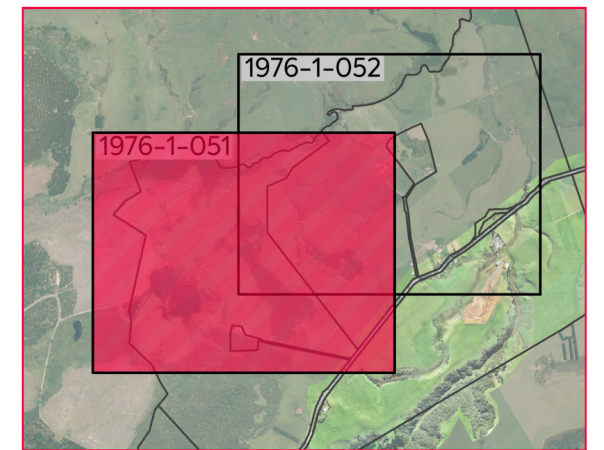


**NOTES:**

- REFER TO DRAWING 1976-1-300 FOR STANDARD SITE CLEARING NOTES.

**LEGEND:**

- EXISTING FENCES & GATES (TO BE CLEARED)
- EXISTING STRUCTURE (TO BE CLEARED)
- EXISTING POWERLINE & POWER POLE
- PERMANENT STREAM
- INTERMITTENT STREAM
- EXISTING WETLANDS (TO BE PROTECTED)
- COUNCIL SEA AREA
- COUNCIL ONF AREA
- MAPPED SEA/ONF (BY ECOLOGIST)
- EXOTIC VEGETATION AREA
- INDIGENOUS VEGETATION (NON SEA)
- EXISTING KAURI TREE (TO BE CONFIRMED)
- EXISTING TREE OF INTEREST (TO BE CONFIRMED)
- ARCHAEOLOGICAL SITE (TO BE CONFIRMED)



**DRAWING LAYOUT PLAN**

CLIENT: PROJECT: TITLE:

**THE BEARS HOME PROJECT MANAGEMENT LTD**  
**MURIWAI DOWNS GOLF PROJECT**  
**610 & 697 MURIWAI ROAD**  
**MURIWAI VALLEY**

**EXISTING TOPOGRAPHY**  
**LAYOUT PLAN**  
**SHEET 1**

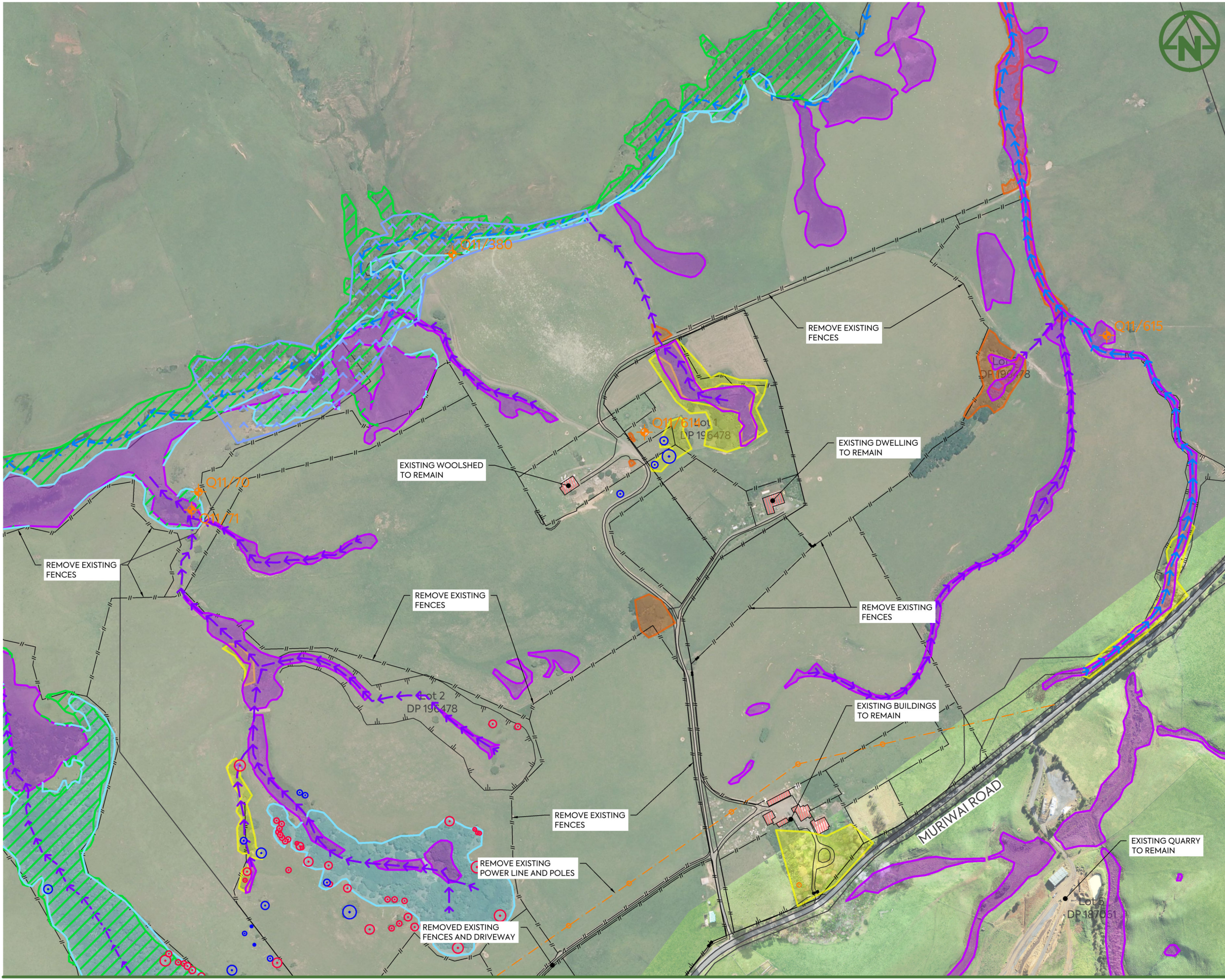
PURPOSE OF ISSUE:  
**FOR CONSENT**

SCALE:  
**1:5000 @ A3**  
 DO NOT SCALE

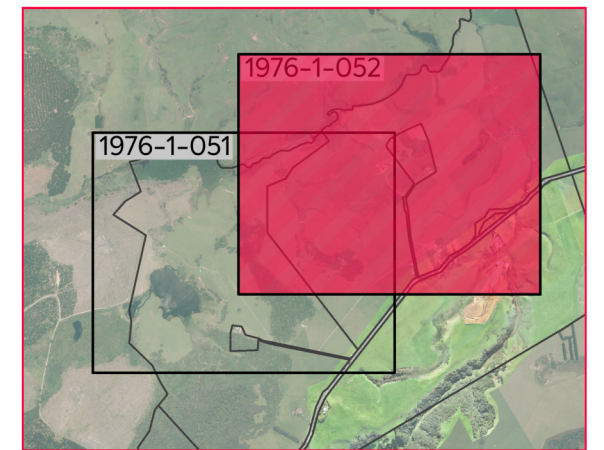
DRAWING NO.: **1976-1-051** REV: **D**

REV	DESCRIPTION	DRN BY	CHK BY	APP BY	DATE
D	S92 RESPONSE	MO	CIM	JSD	04/03/22
C	ISSUED FOR CONSENT	MO	CIM	JSD	26/11/21
B	SECOND ISSUE	MO	CIM	JSD	29/10/21
A	FIRST ISSUE	MO	CIM	JSD	24/08/21



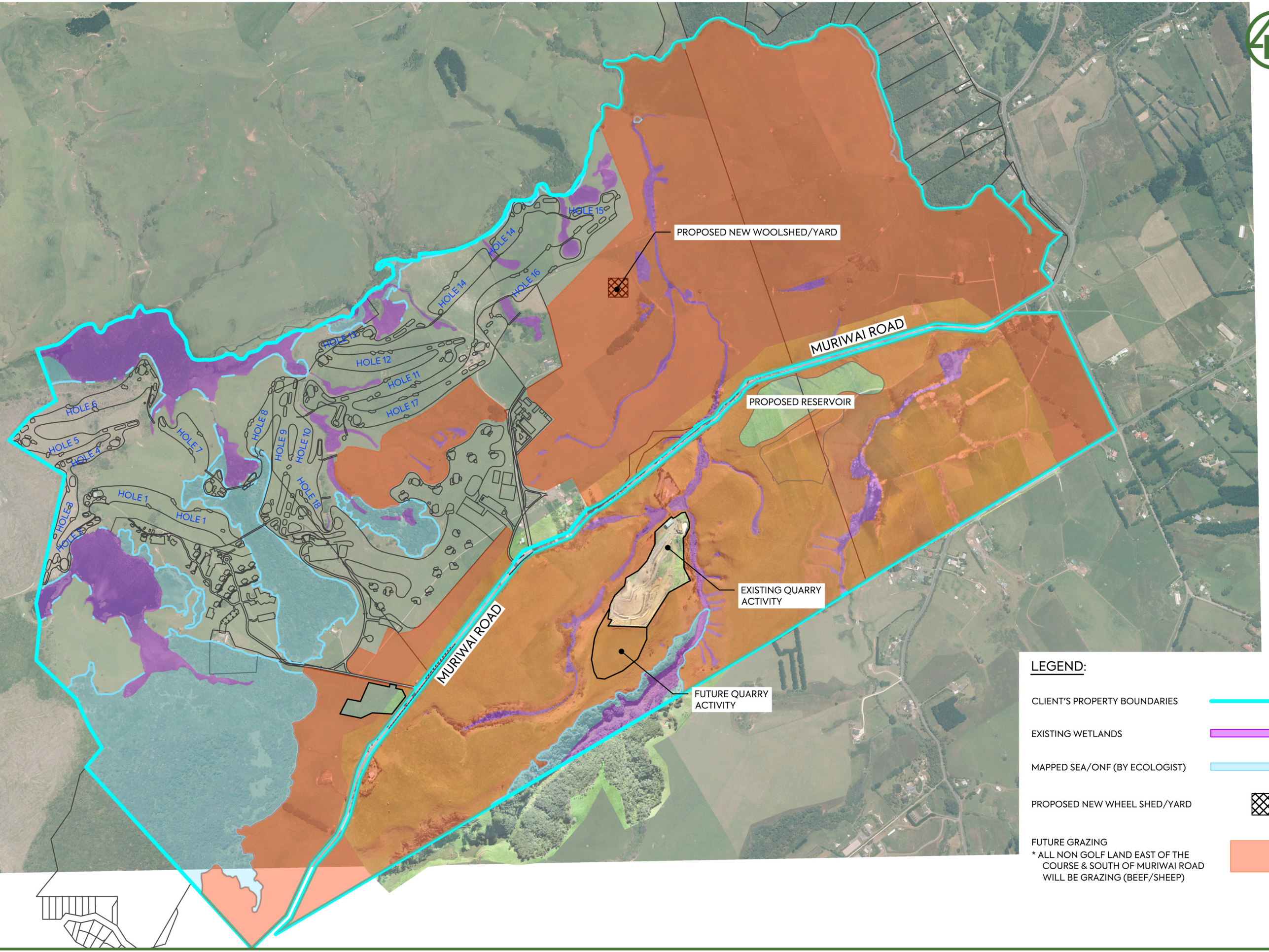


- NOTES:**
- REFER TO DRAWING 1976-1-300 FOR STANDARD SITE CLEARING NOTES.
- LEGEND:**
- EXISTING FENCES & GATES (TO BE CLEARED)
  - EXISTING STRUCTURE (TO BE CLEARED)
  - EXISTING POWERLINE & POWER POLE
  - PERMANENT STREAM
  - INTERMITTENT STREAM
  - EXISTING WETLANDS (TO BE PROTECTED)
  - COUNCIL SEA AREA
  - COUNCIL ONF AREA
  - MAPPED SEA/ONF (BY ECOLOGIST)
  - EXOTIC VEGETATION AREA
  - INDIGENOUS VEGETATION (NON SEA)
  - EXISTING KAURI TREE (TO BE CONFIRMED)
  - EXISTING TREE OF INTEREST (TO BE CONFIRMED)
  - ARCHAEOLOGICAL SITE (TO BE CONFIRMED)



**DRAWING LAYOUT PLAN**





**LEGEND:**

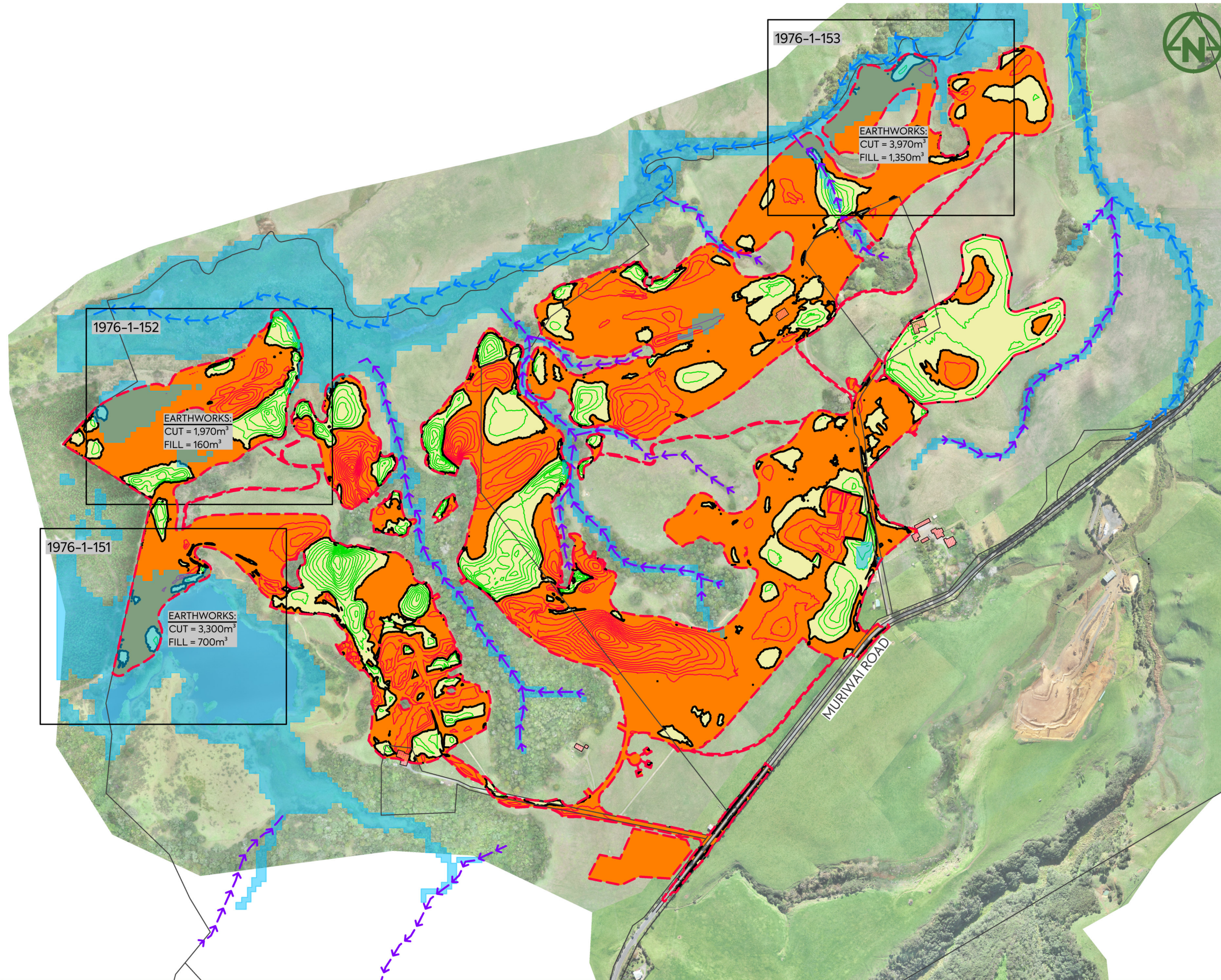
CLIENT'S PROPERTY BOUNDARIES	
EXISTING WETLANDS	
MAPPED SEA/ONF (BY ECOLOGIST)	
PROPOSED NEW WHEEL SHED/YARD	
FUTURE GRAZING * ALL NON GOLF LAND EAST OF THE COURSE & SOUTH OF MURIWAI ROAD WILL BE GRAZING (BEEF/SHEEP)	

CLIENT: THE BEARS HOME PROJECT LIMITED      PROJECT: MURIWAI DOWNS GOLF COURSE 610 & 697 MURIWAI ROAD MURIWAI VALLEY      TITLE: FUTURE GRAZING AREA OVERALL PLAN      PURPOSE OF ISSUE: FOR INFORMATION



B	S92 RESPONSE	MO	CIM	JSD	04/03/22
A	FIRST ISSUE	MO	CIM	JSD	09/11/21
REV	DESCRIPTION	DRN BY	CHK BY	APP BY	DATE

SCALE:	1:11500 @ A3
DO NOT SCALE	
DRAWING NO:	1976-0-060
REV:	B



**NOTES:**

- ALL LEVELS ARE IN TERMS OF AUCKLAND VERTICAL DATUM 1946 (MSL). THE CONTOUR INTERVAL IS: 1.0m
- EARTHWORKS SHALL NOT EXTEND PAST THE AREA SHOWN ON THE PLANS.

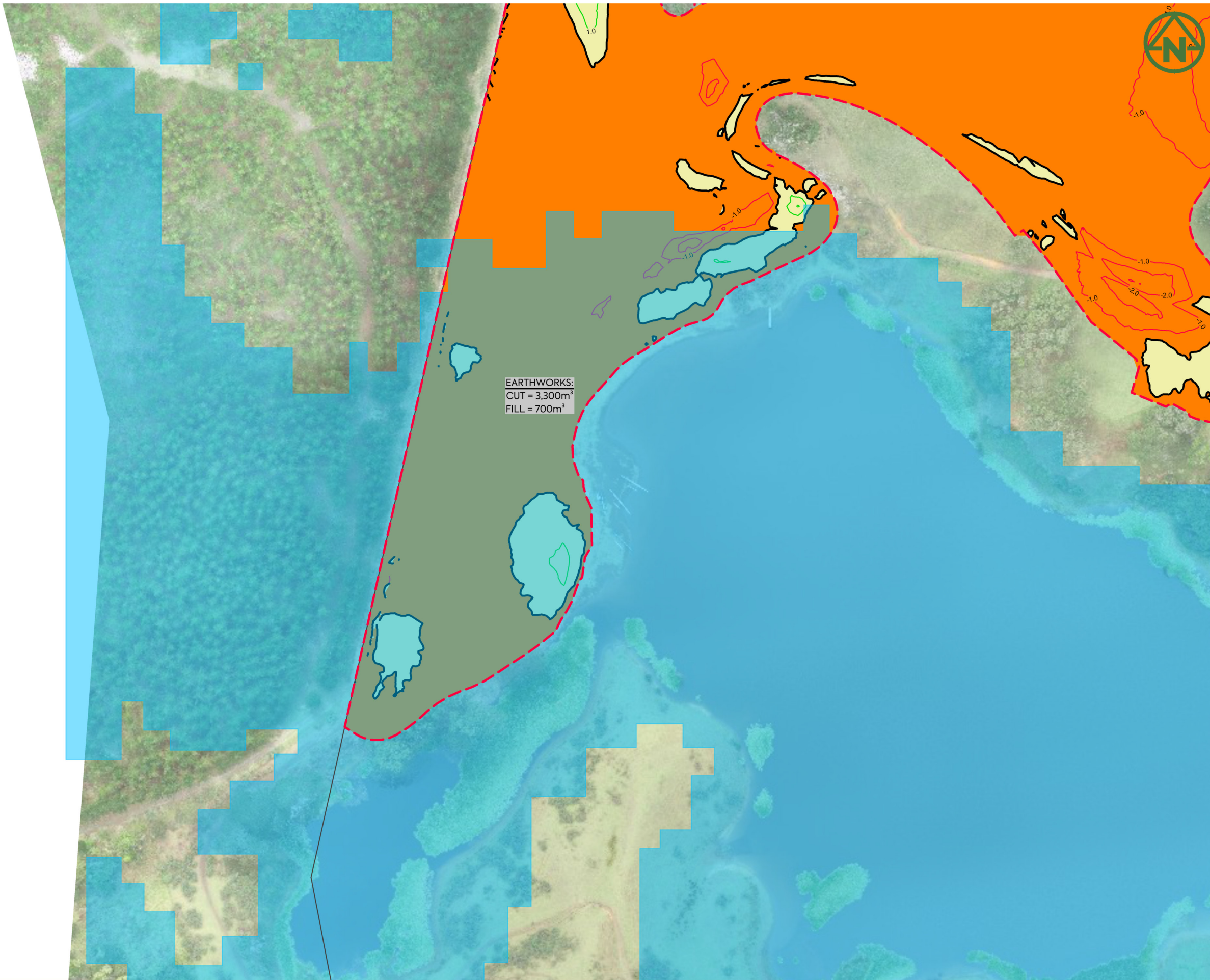
**LEGEND:**

EXTENT OF EARTHWORKS	
PROPOSED FILL	
PROPOSED CUT	
PROPOSED FILL (MAJOR CONTOUR)	
PROPOSED CUT (MAJOR CONTOUR)	
CUT/FILL (ZERO CONTOUR)	
EXISTING (5m) MAJOR CONTOUR	
EXISTING (1m) MINOR CONTOUR	
PERMANENT STREAM	
INTERMITTENT STREAM	
EXISTING GEOMAPS FLOOD PLAIN (1% FLOOD PLAIN)	

CLIENT:	PROJECT:	TITLE:	PURPOSE OF ISSUE:
THE BEARS HOME PROJECT MANAGEMENT LTD	MURIWAI DOWNS GOLF PROJECT 610 & 697 MURIWAI ROAD MURIWAI VALLEY	FLOOD PLAIN EXTENT OF WORKS OVERALL LAYOUT	FOR CONSENT
			SCALE: 1:7500 DO NOT SCALE
			DRAWING NO: 1976-1-150
			REV: A



A	S92 RESPONSE	MO	CIM	JSD	04/03/22
REV	DESCRIPTION	DRN BY	CHK BY	APP BY	DATE

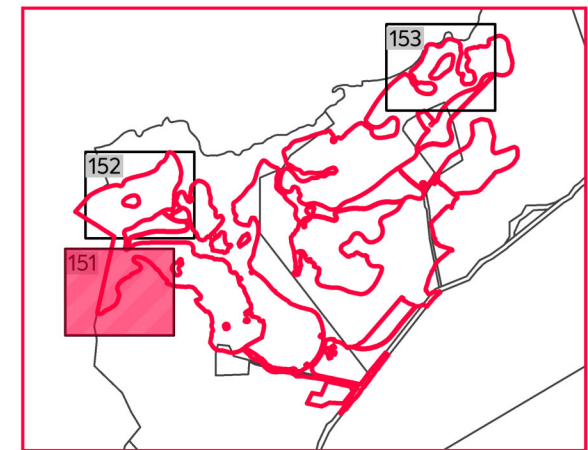


- NOTES:**
- ALL LEVELS ARE IN TERMS OF AUCKLAND VERTICAL DATUM 1946 (MSL). THE CONTOUR INTERVAL IS: 1.0m
  - EARTHWORKS SHALL NOT EXTEND PAST THE AREA SHOWN ON THE PLANS.

**LEGEND:**

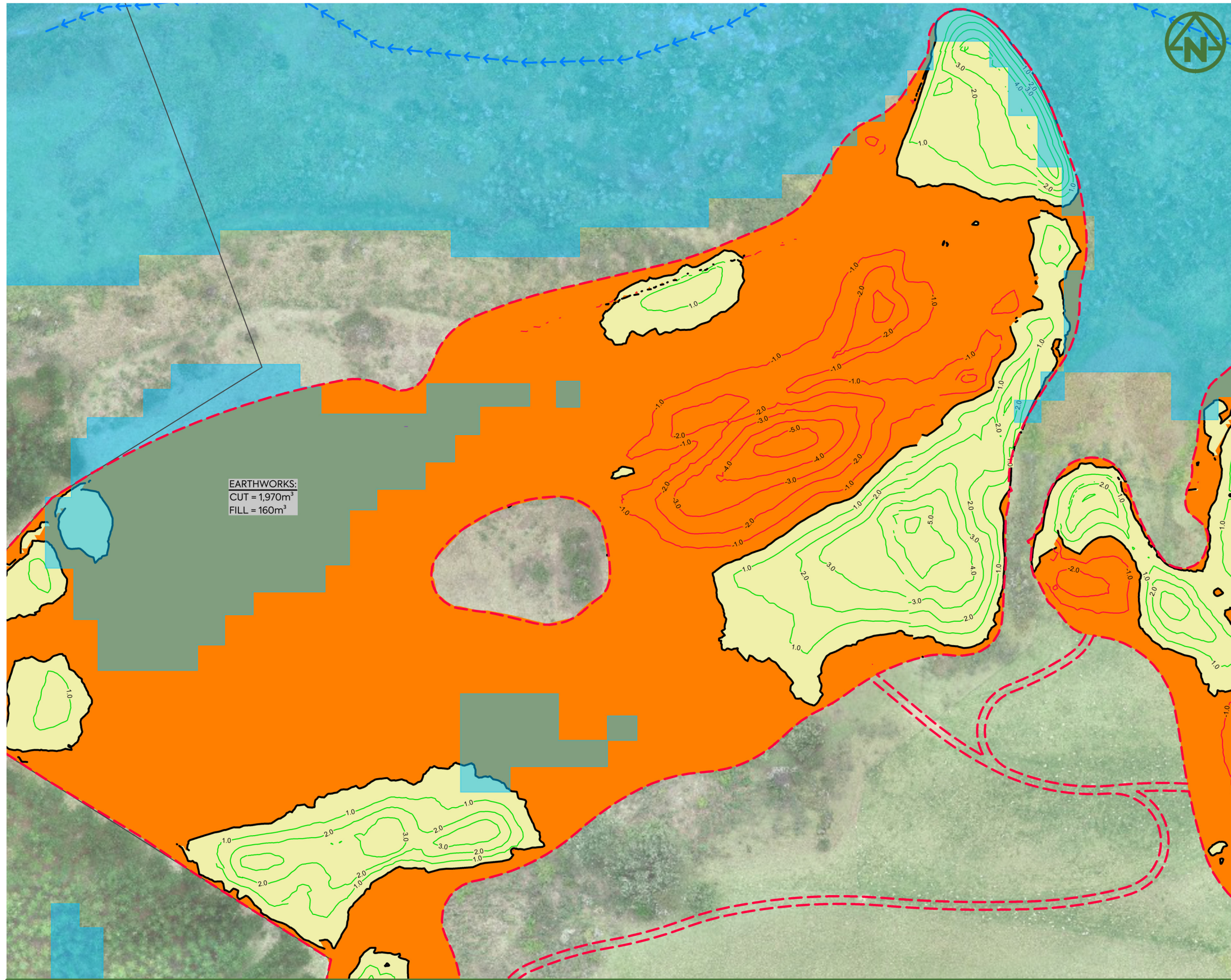
EXTENT OF EARTHWORKS	
PROPOSED FILL	
PROPOSED CUT	
PROPOSED FILL (MAJOR CONTOUR)	
PROPOSED CUT (MAJOR CONTOUR)	
CUT/FILL (ZERO CONTOUR)	
EXISTING (5m) MAJOR CONTOUR	
EXISTING (1m) MINOR CONTOUR	
PERMANENT STREAM	
INTERMITTENT STREAM	
EXISTING GEOMAPS FLOOD PLAIN (1% FLOOD PLAIN)	

EARTHWORKS:  
 CUT = 3,300m<sup>3</sup>  
 FILL = 700m<sup>3</sup>



**DRAWING LAYOUT PLAN**

PLOT DATE 2022-05-27 13:48:42 WWW.MCKENZIEANDCO.CO.NZ THIS DRAWING IS SOLELY FOR USE BY THE CLIENT ON THIS PROJECT ONLY. NO LIABILITY IS ACCEPTED IN ITS USE BY ANY OTHER ENTITY OR FOR ANY OTHER PURPOSE C:\12DS\DATA\MCKF501\1976 610 MURIWAI ROAD\_766\DRAWINGS\1. RESOURCE CONSENT\1976-1-150.DWG



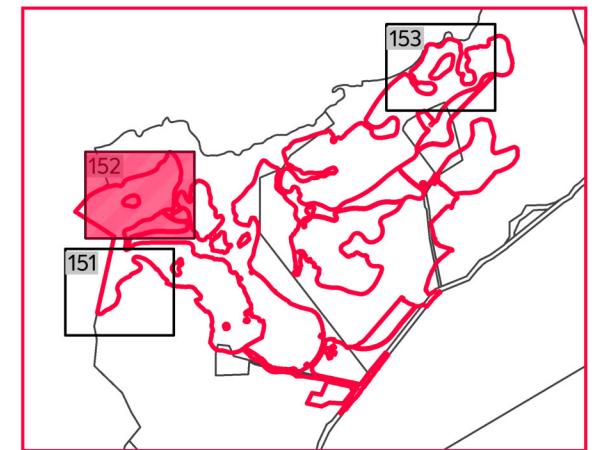
EARTHWORKS:  
 CUT = 1,970m<sup>3</sup>  
 FILL = 160m<sup>3</sup>

**NOTES:**

1. ALL LEVELS ARE IN TERMS OF AUCKLAND VERTICAL DATUM 1946 (MSL). THE CONTOUR INTERVAL IS: 1.0m
2. EARTHWORKS SHALL NOT EXTEND PAST THE AREA SHOWN ON THE PLANS.

**LEGEND:**

EXTENT OF EARTHWORKS	
PROPOSED FILL	
PROPOSED CUT	
PROPOSED FILL (MAJOR CONTOUR)	
PROPOSED CUT (MAJOR CONTOUR)	
CUT/FILL (ZERO CONTOUR)	
EXISTING (5m) MAJOR CONTOUR	
EXISTING (1m) MINOR CONTOUR	
PERMANENT STREAM	
INTERMITTENT STREAM	
EXISTING GEOMAPS FLOOD PLAIN (1% FLOOD PLAIN)	

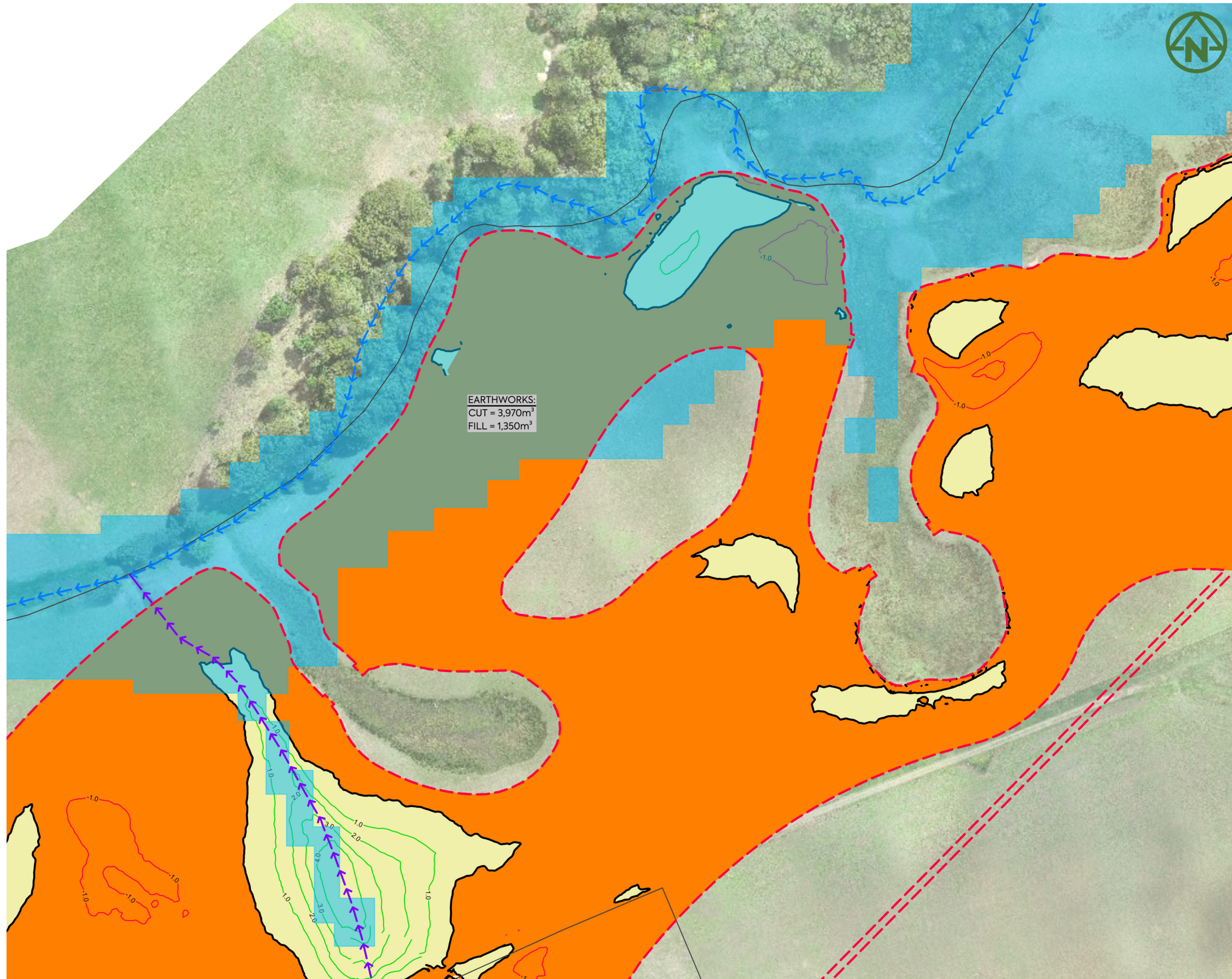


**DRAWING LAYOUT PLAN**

CLIENT: <b>THE BEARS HOME PROJECT MANAGEMENT LTD</b>	PROJECT: <b>MURIWAI DOWNS GOLF PROJECT          610 &amp; 697 MURIWAI ROAD          MURIWAI VALLEY</b>	TITLE: <b>FLOOD PLAIN          EXTENT OF WORKS          LAYOUT PLAN          SHEET 2</b>
PURPOSE OF ISSUE: <b>FOR CONSENT</b>		
SCALE: <b>1:1500</b> DO NOT SCALE		
DRAWING NO: <b>1976-1-152</b>		REV: <b>A</b>



A	S92 RESPONSE	MO	CIM	JSD	04/03/22
REV	DESCRIPTION	DRN BY	CHK BY	APP BY	DATE



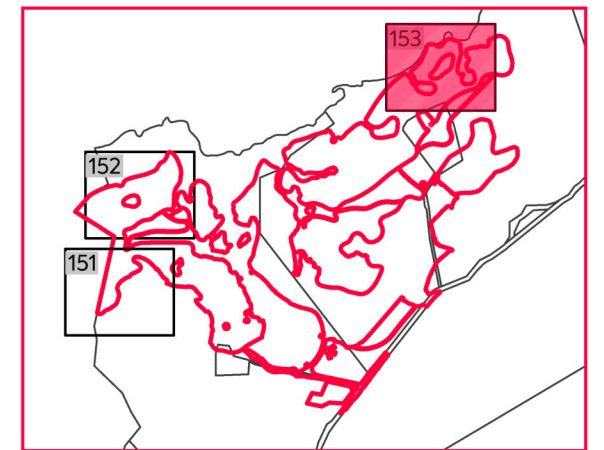
EARTHWORKS:  
 CUT = 3,970m<sup>3</sup>  
 FILL = 1,350m<sup>3</sup>



- NOTES:**
- ALL LEVELS ARE IN TERMS OF AUCKLAND VERTICAL DATUM 1946 (MSL). THE CONTOUR INTERVAL IS: 1.0m
  - EARTHWORKS SHALL NOT EXTEND PAST THE AREA SHOWN ON THE PLANS.

**LEGEND:**

EXTENT OF EARTHWORKS	
PROPOSED FILL	
PROPOSED CUT	
PROPOSED FILL (MAJOR CONTOUR)	
PROPOSED CUT (MAJOR CONTOUR)	
CUT/FILL (ZERO CONTOUR)	
EXISTING (5m) MAJOR CONTOUR	
EXISTING (1m) MINOR CONTOUR	
PERMANENT STREAM	
INTERMITTENT STREAM	
EXISTING GEOMAPS FLOOD PLAIN (1% FLOOD PLAIN)	



**DRAWING LAYOUT PLAN**

CLIENT: THE BEARS HOME PROJECT MANAGEMENT LTD PROJECT: MURIWAI DOWNS GOLF PROJECT 610 & 697 MURIWAI ROAD MURIWAI VALLEY	TITLE: FLOOD PLAIN EXTENT OF WORKS LAYOUT PLAN SHEET 3	PURPOSE OF ISSUE: FOR CONSENT SCALE: 1:1500 DO NOT SCALE DRAWING NO: 1976-1-153 REV: A
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A	S92 RESPONSE	MO	CIM	JSD	04/03/22
REV	DESCRIPTION	DRN BY	CHK BY	APP BY	DATE