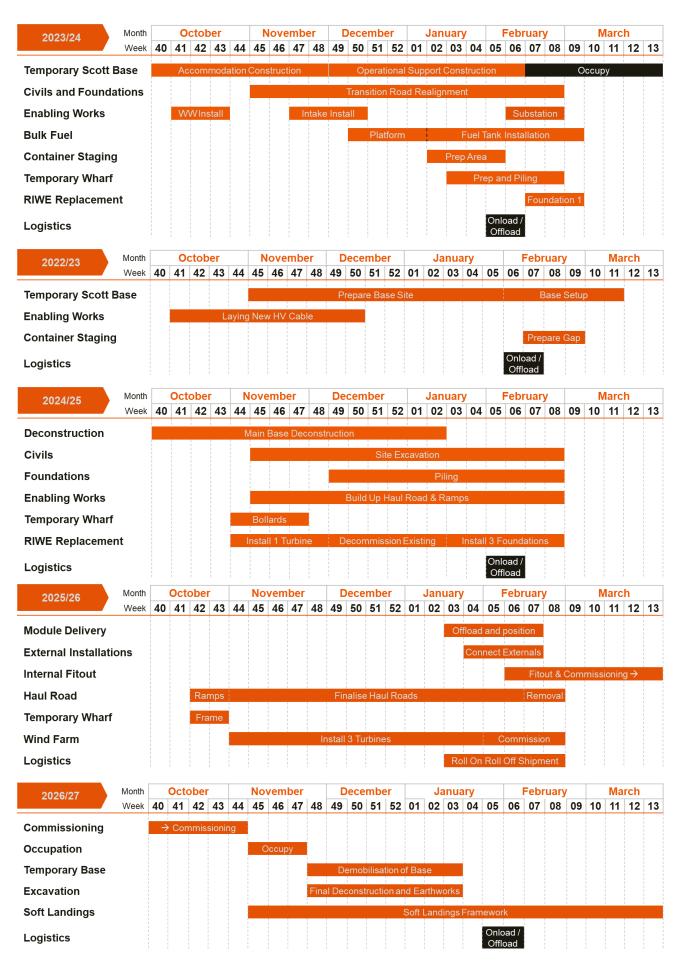
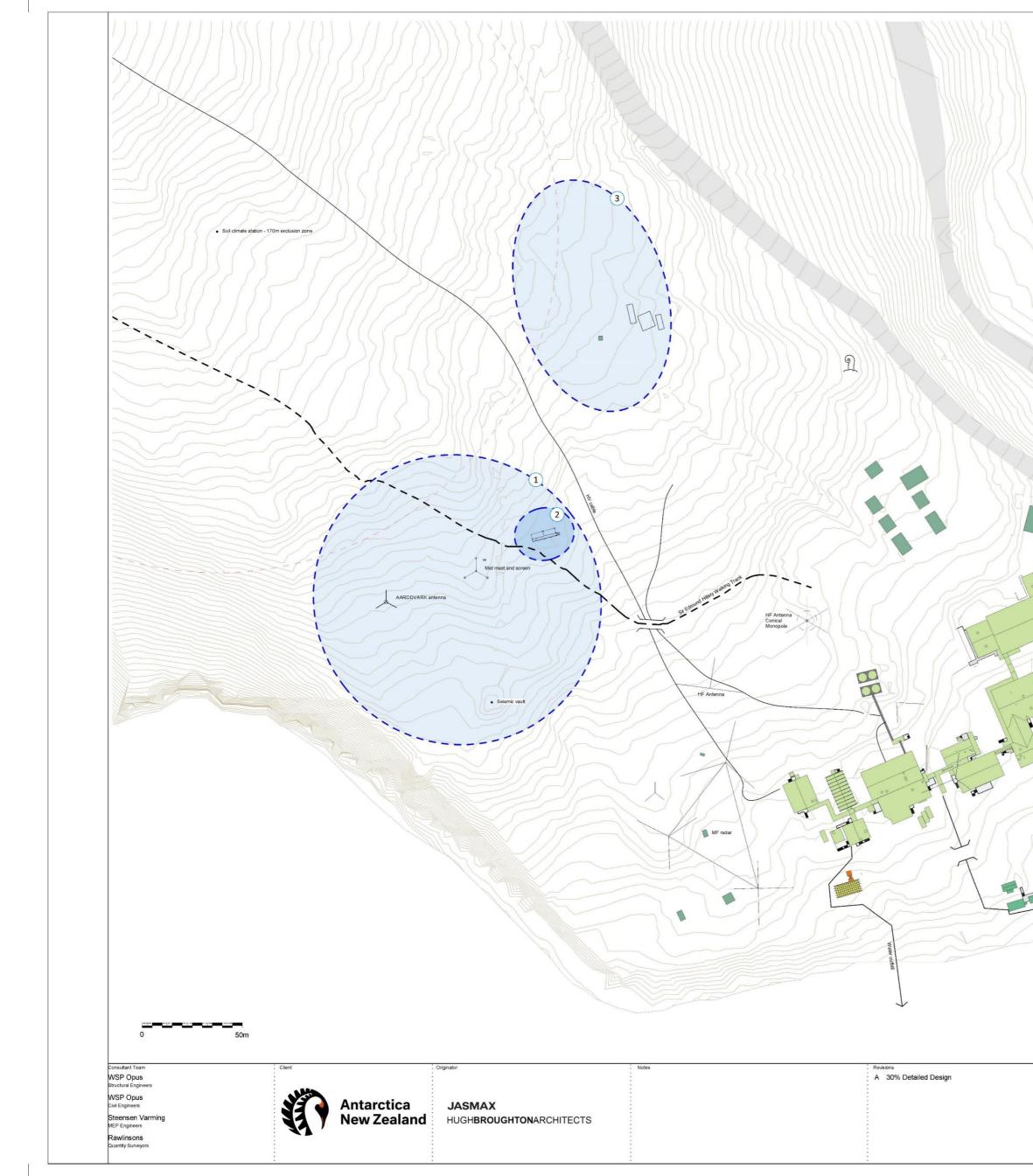
Appendix 1: Schedule for the Scott Base Redevelopment and Ross Island Wind Energy network replacement



Appendix 2: Season Staging Plans



STAGING -2021_2022 -SEASON 0

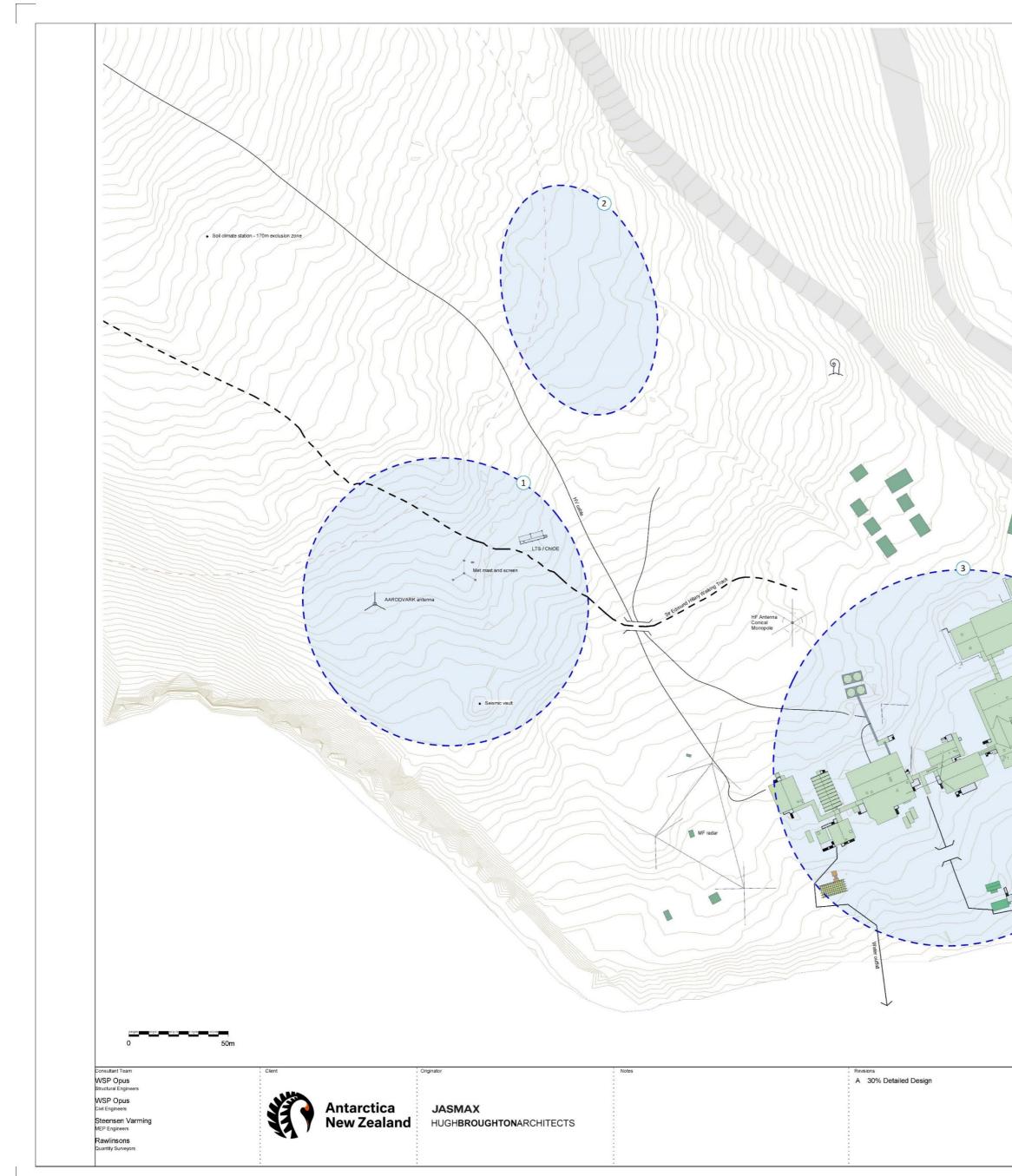
KEY ACTIVITIES

- 1. LTS / ChIOE wannigan delivered and commissioned
- 2. LTS relocation (data overlap with existing)
- 3. Scott Base investigation work and site clearance

30% DETAILED DESIGN

05.03.2021	DRAWN JXHBA DESIGNED JXHBA CHECKED HB/ER APPROVED HB	Project SCOTT BASE REDEVELOPMENT ROSS ISLAND	IF THERE ARE ANY DISCREPANCIES IN THE DOCUMENTS PLEASE SEEK CLARIFICATION BEFORE PROCEEDING WITH ANY WORK DO NOT SCALE OFF THIS DRAWING CONTRACTOR MUST VERIFY ALL DIMENSIONS ON SITE BEFORE COMMENCING ANY WORK COPYRIGHT © JASMAX & HUGH BROUGHTON ARCHITECTS	
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STAGING -2022_2023 -SEASON 1

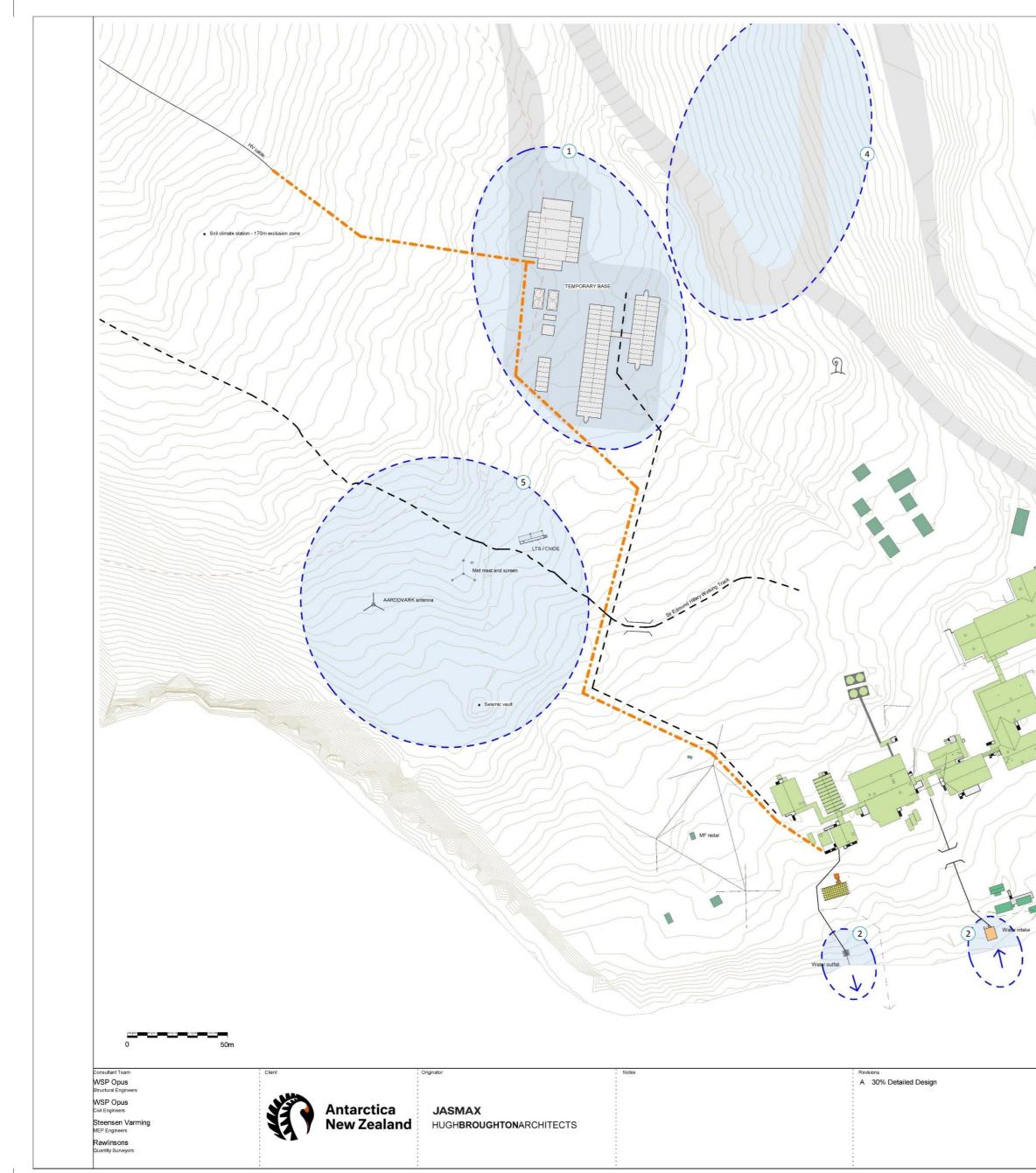
KEY ACTIVITIES

- 1. LTS relocations and data overlap
- 2. Construction plant and materials delivered
- 3. Scott Base enabling work

30% DETAILED DESIGN

05.03.2021 DRAWN JAHBA DESIGNED JAHBA CHECKED HBJER APPROVED HB	Project SCOTT BASE REDEVELOPMENT ROSS ISLAND	IF THERE ARE ANY DISCREPANCIES IN THE DOCUMENTS PLEASE SEEK CLARFICATION BEFORE PROCEEDING WITH ANY WORK DO NOT SCALE OFF THIS DRAWING CONTRACTOR MUST VERFY ALL DIMENSIONS ON SITE BEFORE COMMENCING ANY WORK COPYRIGHT © JASMAX & HUGH BROUGHTON ARCHITECTS	
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STAGING -2023_2024 -SEASON 2

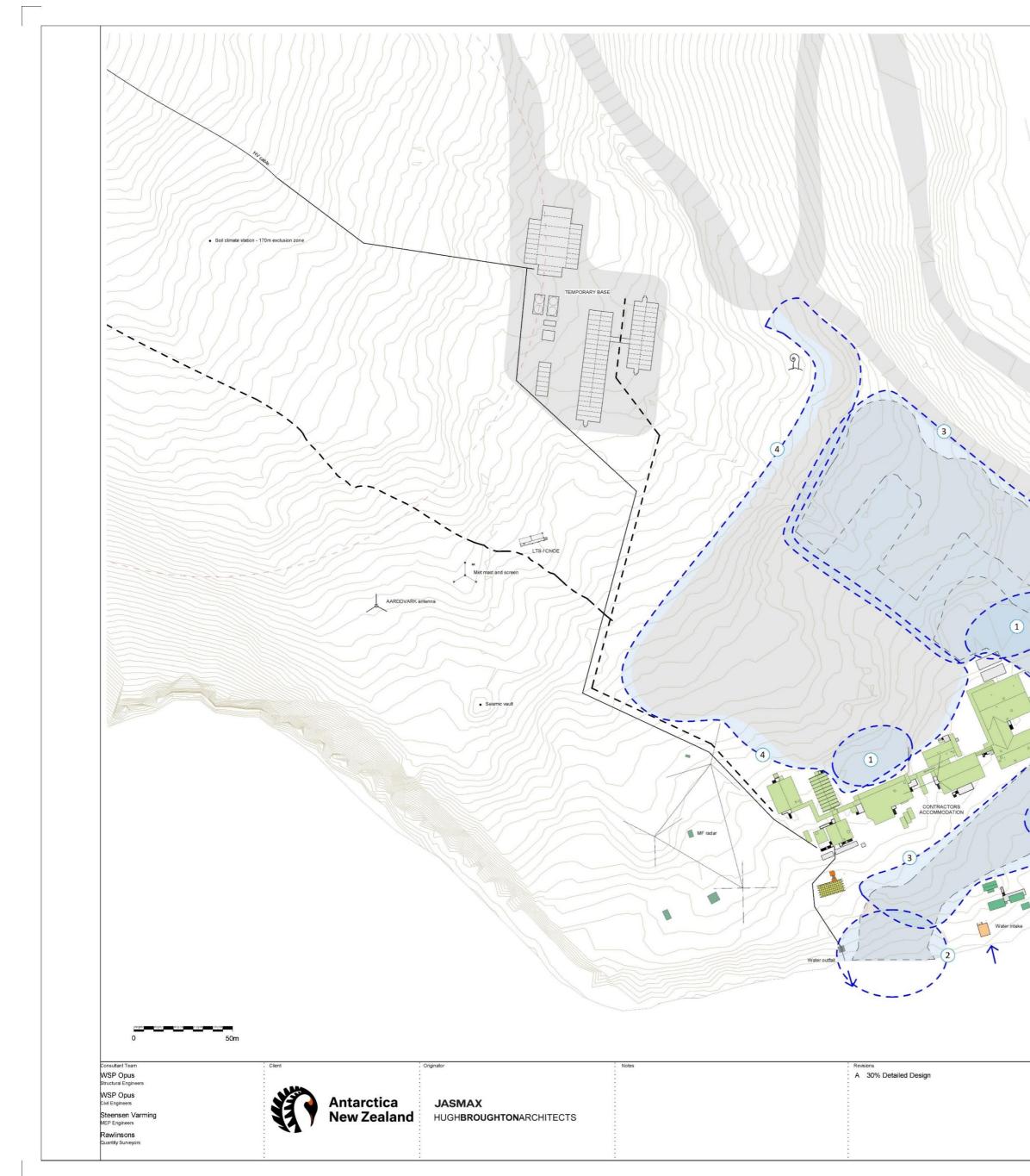
KEY ACTIVITIES

- 1. Temporary Base complete and occupation
- 2. Water outfall and intake
- 3. Fuel facility
- 4. Transition road realignment
- 5. LTS experiments relocation complete (Existing wind farm decommissioned)

30% DETAILED DESIGN

05.03.2021	DRAWN JxHBA DESIGNED JxHBA CHECKED HB/ER APPROVED HB	Project SCOTT BASE REDEVELOPMENT ROSS ISLAND	IF THERE ARE ANY DISCREPANCIES IN THE DOCUMENTS PLEASE SEEK CLARIFICATION BEFORE PROCEEDING WITH ANY WORK DO NOT SCALE OFF THIS DRAWING CONTRACTOR MUST VERIFY ALL DIMENSIONS ON SITE BEFORE COMMENCING ANY WORK COPYRIGHT Ø JASMAX & HUGH BROUGHTON ARCHITECTS		
	ARCHITECTURAL	Sheet STAGING - 2023_2024 - SEASON 2	Drawing Number Revision		
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STAGING -2024_2025 -SEASON 3

KEY ACTIVITIES

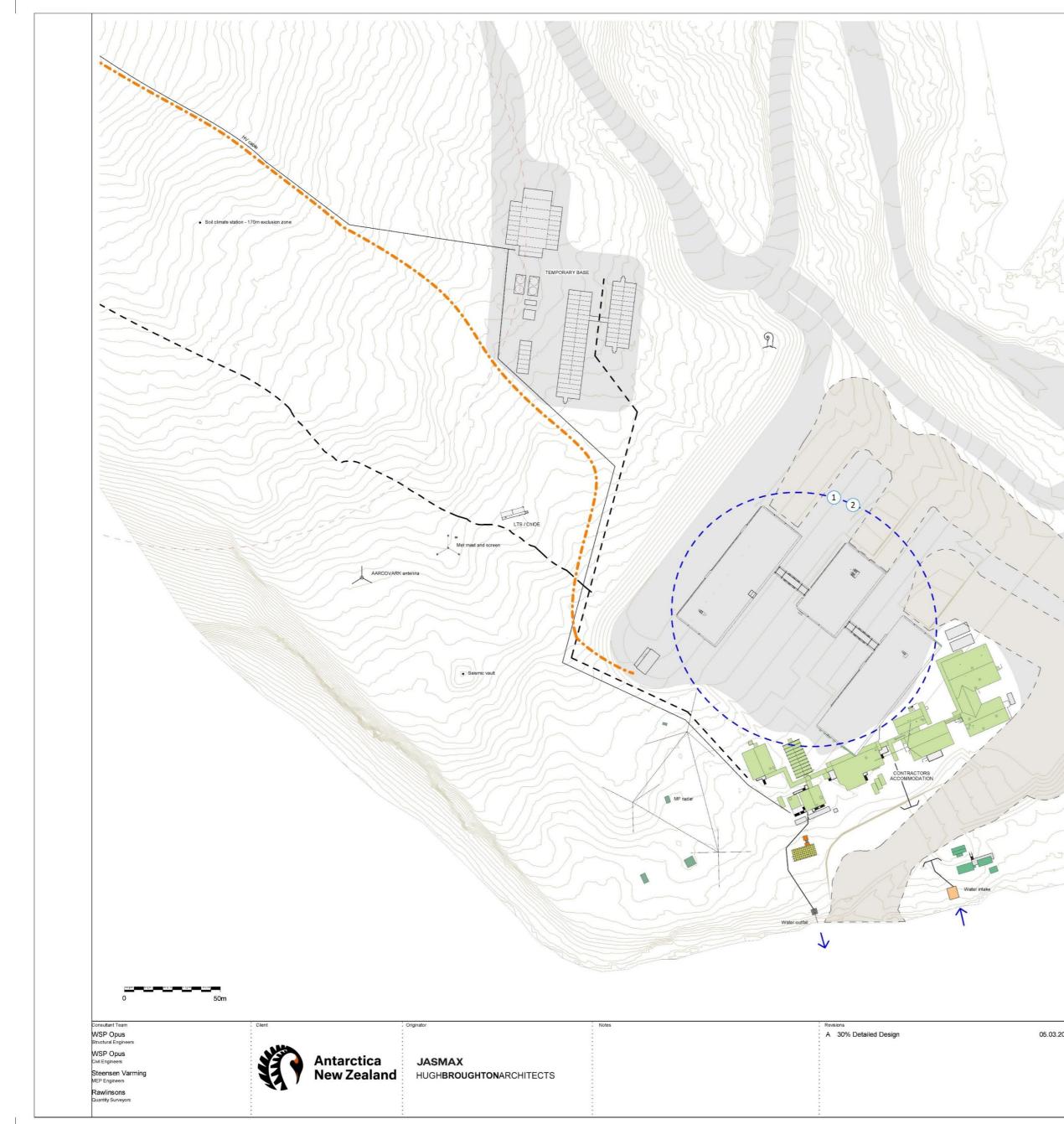
- Deconstruction of existing buildings not being retained for Contractors accommodation
- 2. Wharf construction
- 3. Haul road earthworks
- 4. Main building platform earthworks and ground contamination remediation

(New wind farm commissioned)

30% DETAILED DESIGN

05.03.2021	DRAWN JxHBA DESIGNED JxHBA CHECKED HB/ER APPROVED HB	Project SCOTT BASE REDEVELOPMENT ROSS ISLAND	IF THERE ARE ANY DISCREPANCIES IN THE DOCUMENTS PLEASE SEEK CLARIFICATION BEFORE PROCEEDING WITH ANY WORK. DO NOT SCALE OFF THIS DRAWING CONTRACTOR MUST VERIFY ALL DIMENSIONS ON SITE BEFORE COMMENCING ANY WORK COPYRIGHT © JASMAX & HUGH BROUGHTON ARCHITECTS
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STAGING -2025_2026 -SEASON 4

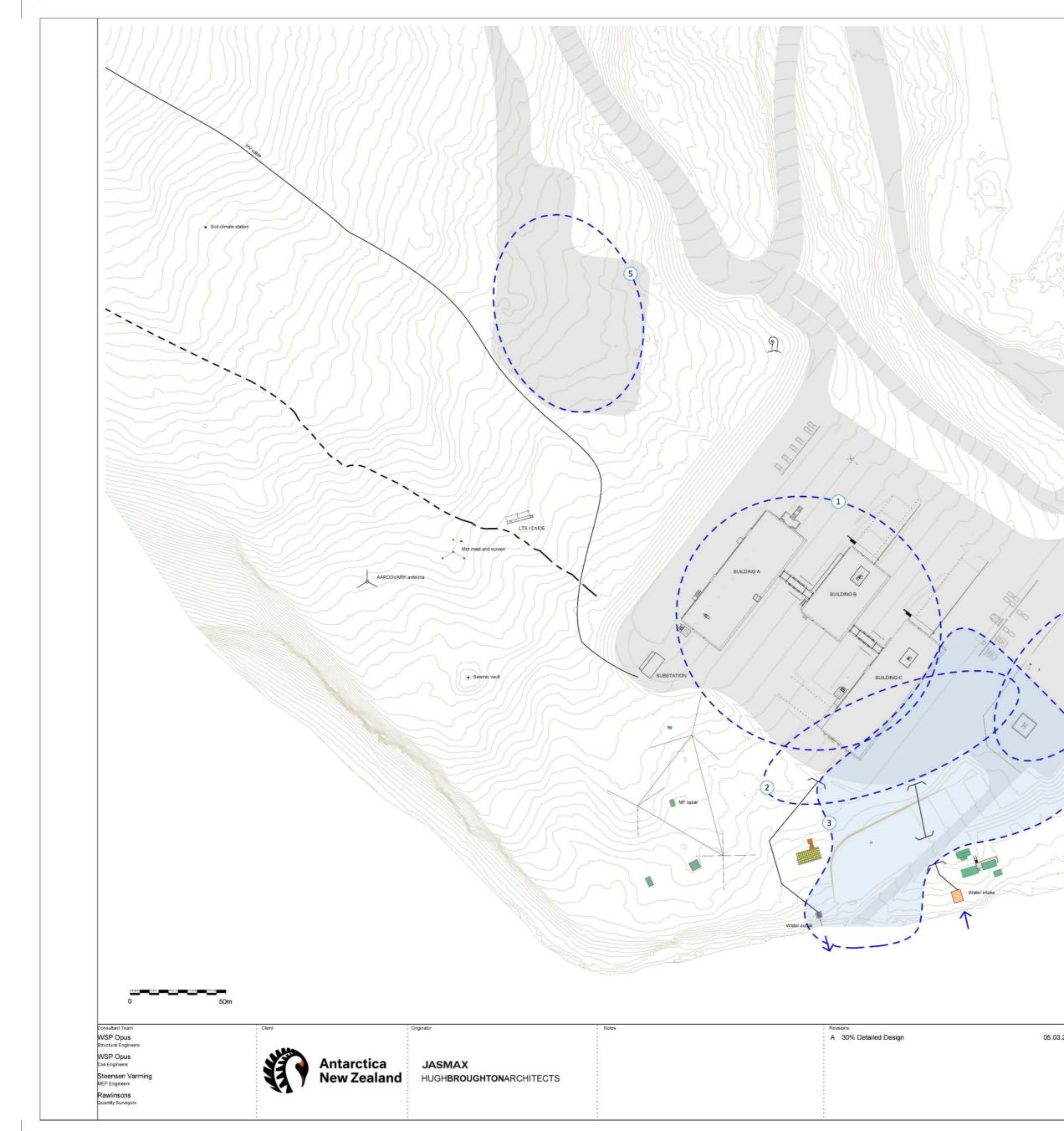
KEY ACTIVITIES

1. Delivery and construction of main base

2. Commissioning, practical completion

30% DETAILED DESIGN

05.03.2021 DRAWN JMBA DESIGNED JMBA CHECKED HBIER APPROVED HB	Project SCOTT BASE REDEVELOPMENT ROSS ISLAND	IF THERE ARE ANY DISCREPANCIES IN THE DOCUMENTS PLEASE SEEK CLARIFICATION BEFORE PROCEEDING WITH ANY WORK DO NOT SCALE OFF THIS DRAWING CONTRACTOR MUST VERIFY ALL DIMENSIONS ON SITE BEFORE COMMENCING ANY WORK COPYRIGHT @ JASMAX & HUGH BROUGHTON ARCHITECTS
ARCHITECTURAL	Sheet STAGING - 2025_2026 - SEASON 4 SCALE @ A1= 1 : 1000	Drawing Number Revision



STAGING -2026_2027 -SEASON 5

KEY ACTIVITIES

- 1. New Scott Base handover
- 2. Demolition of existing buildings
- 3. Complete earthworks and reinstatement including remediation of haul road / ramp
- 4. Establish external stores area, helipads
- 5. Decommission temporary base and remediate site

30% DETAILED DESIGN

05.03.2021	DRAWN J#HBA DESIGNED J#HBA CHECKED HB/ER APPROVED HB	Project SCOTT BASE REDEVELOPMENT ROSS ISLAND	IF THERE ARE ANY DISCREPANCIES IN THE DOCUMENTS PLEASE SEEK CLARIFICATION BEFORE PROCEEDING WITH ANY WORK DO NOT SCALE OFF THIS DRAWING CONTRACTOR MUST VERIFY ALL DIMENSIONS ON SITE BEFORE COMMENCING ANY WORK COPYRIGHT & JASMAX & HUGH BROUGHTON ARCHITECTS	
	ARCHITECTURAL	Sheet STAGING - 2026_2027 - SEASON 5	Drawing Number Revision	
		SCALE @ A1= 1:1000	A0-S005 (A)	

Appendix 3: Floor plans

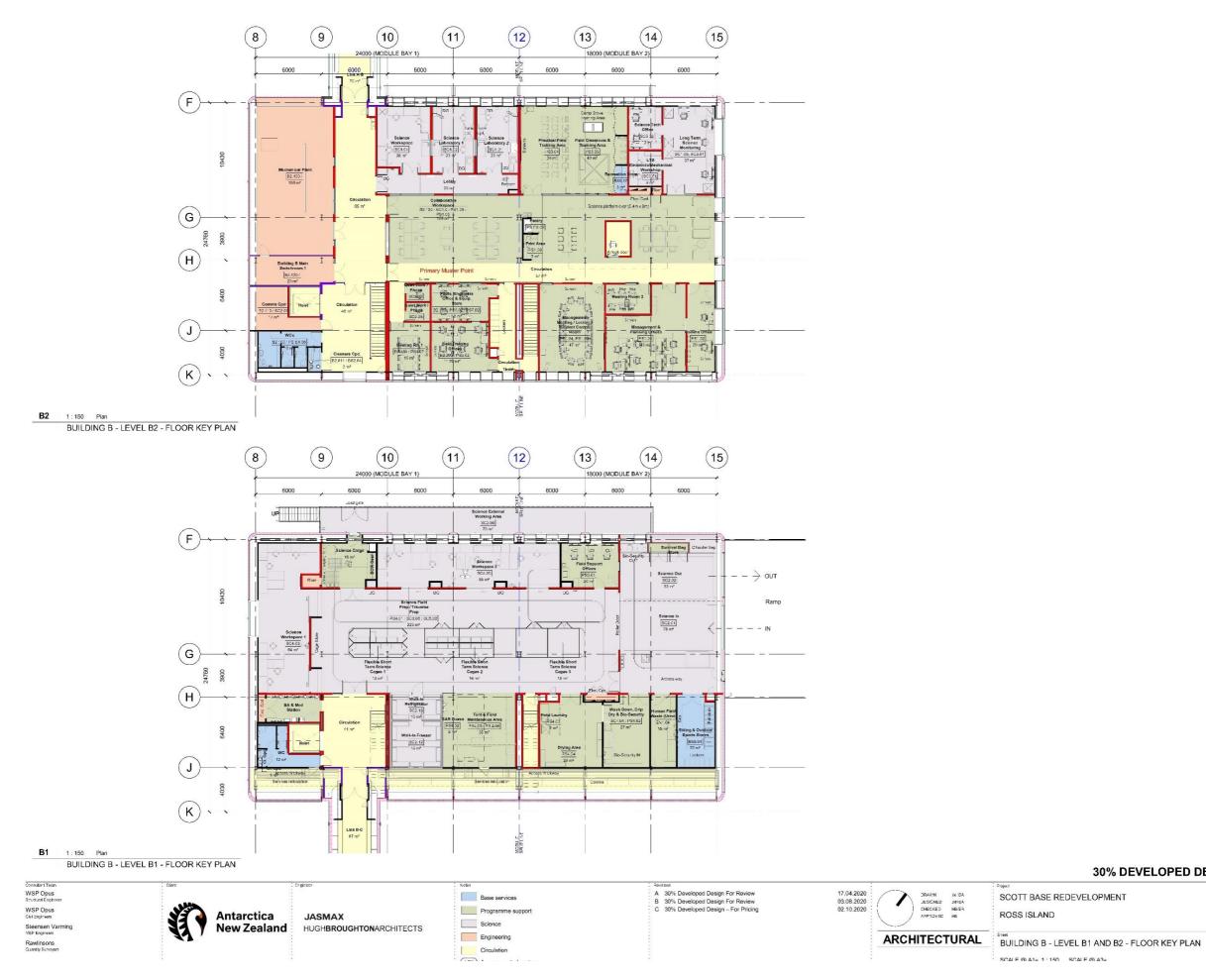


30% DEVELOPED DESIGN - FOR PRICING

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30% DEVELOPED DESIGN - FOR PRICING

SCOTT BASE REDEVELOPMENT

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Revision



Appendix 4: Green Star Custom Tool Scorecard

CATEGORY / CREDIT	AIM OF THE CREDIT / SELECTION	CODE	CREDIT CRITERIA	POINTS AVAILABLE	POINTS TARGETED
Management				22	
Green Star Accredited Professional	To recognise the appointment and active involvement of a Green Star Accredited Professional in order to ensure that the rating tool is applied effectively and as intended.	1.0	Accredited Professional	1	1
Commissioning and Tuning	To encourage and recognise commissioning, handover and tuning initiatives that ensure all building services operate to their full potential.	2.0	Environmental Performance Targets	Minimum standard	Complies
		2.1	Services and Maintainability Review	1	1
		2.2	Building Commissioning	1	1
		2.3	Air Permeability Rates	1	0
		2.4	Building Systems Tuning	1	1
		2.5	Independent Commissioning Agent	1	1
Adaptation and Resilience	To encourage and recognise projects that are resilient to the impacts of a changing climate and natural disasters.	3.1	Implementation of a Climate Adaptation Plan	2	2

CATEGORY / CREDIT	AIM OF THE CREDIT / SELECTION	CODE	CREDIT CRITERIA	POINTS AVAILABLE	POINTS TARGETED
Building Information	To recognise the development and provision of building information that facilitates understanding of a building's systems, operation and maintenance requirements, and environmental targets to enable the optimised performance.	4.1	Building Information	1	1
Commitment to Performance	To recognise practices that encourage building owners, building occupants and facilities management teams to set targets and monitor environmental performance in a	5.1	Environmental Building Performance	1	1
	llaborative way.	5.2	Design for Disassembly	2	1
		5.3	Design for Durability	2	1
		5.4	Ongoing Procurement	1	1
Metering and Monitoring	To recognise the implementation of effective energy and water metering and monitoring systems.	6.0	Metering	Minimum standard	Complies
		6.1	Monitoring Systems: Energy & Water	1	1
		6.1	Monitoring Systems: Indoor Environment Quality	1	1
Responsible Building Practices	To reward projects that use best practice formal environmental management procedures during construction.	7.0	Environmental Management Plan	Minimum standard	Complies
		7.1	Formalised Environmental Management System	1	0
		7.2	High Quality Staff Support	1	1

CATEGORY / CREDIT	AIM OF THE CREDIT / SELECTION	CODE	CREDIT CRITERIA	POINTS AVAILABLE	POINTS TARGETED
Operational Waste	To recognise projects that implement waste management plans that facilitate the re-use, upcycling, or conversion of waste into energy, and stewardship of items to reduce the quantity of outgoing waste.	8.1	Performance Pathway - Specialist Plan	1	1
Site Planning and Layout	To recognise projects in which the activity of planning and detailed design for land use takes into consideration pedestrian safety, environmental	9.0	Site Planning for Pedestrian Safety	Minimum standard	Complies
	protection, and ongoing snot management.	9.1	Site Planning to Respond to Environmental Conditions	1	1
		9.2	Site Planning to Reduce Environmental Degradation	1	1
Management Total				22	18
Indoor Environment Quality				23	
Quality of Amenities	To encourage and recognise projects that promote healthy and active living through the provision of high quality amenities for occupants' use and a Health and Wellbeing Policy or Plan is in place to support the successful operation of these amenities.	10.0	Health and Wellbeing Policy	Minimum standard	Complies
		10.1	B. Prescriptive Pathway	2	1
Emergency Preparedness	To encourage projects to provide safe facilities and procedures to prevent emergency situations and to	11.1	Emergency Response Plan	1	1

CATEGORY / CREDIT	AIM OF THE CREDIT / SELECTION	CODE	CREDIT CRITERIA	POINTS AVAILABLE	POINTS TARGETED
	ensure life safety during and following emergency events.	11.2	Emergency Facilities and Systems	1	1
Indoor Air Quality	To recognise projects that provide high air quality to occupants.	12.0	Exhaust or Elimination of Pollutants	Minimum standard	Complies
		12.1	Ventilation Systems Attributes	1	1
		12.2	Provision of Outdoor Air	2	0
Acoustic Comfort	To reward projects that provide appropriate and comfortable acoustic conditions for occupants.	13.1	Internal Noise Levels	1	1
		13.2	Reverberation	1	1
		13.3	Acoustic Separation	1	1
Lighting Comfort	To encourage and recognise well-lit spaces that provide a high degree of comfort to users.	14.0	Minimum Lighting Comfort	Minimum standard	Complies
		14.1	General Illuminance and Glare Reduction	1	1
		14.2	Surface Illuminance	1	0
		14.3	Localised Lighting Control	1	0
Visual Comfort	To recognise the delivery of well-lit spaces that provide high levels of visual comfort to, and that	15.1	Glare Reduction	1	1
		15.2	Daylight	2	1

CATEGORY / CREDIT	AIM OF THE CREDIT / SELECTION	CODE	CREDIT CRITERIA	POINTS AVAILABLE	POINTS TARGETED
	support the natural circadian rhythm of, building	15.3	Views	1	1
	occupants.	15.4	Circadian Lighting Design	1	1
Sensory Environment	To recognise the delivery of projects that consider all the senses to provide high levels of sensory comfort to building occupants.	16.1	Sensory Environment	1	0
Indoor Pollutants	To recognise projects that safeguard occupant health through the reduction in internal air pollutant levels.	17.1	Paints, Adhesives, Sealants and Carpets	1	1
		17.2	Engineered Wood Products	1	1
Thermal Comfort	To encourage and recognise projects that achieve high levels of thermal comfort.	18.1	Thermal Comfort	1	1
		18.2	Advanced Thermal Comfort	1	0
		18.3	Thermal Comfort Control	1	0
Universal Design	To encourage projects to provide safe, equitable and dignified access for persons with disabilities.	19.1	Universal Design	1	1
Indoor Environment Quality Total				23	16
Energy				22	
Greenhouse Gas Emissions	To encourage energy efficient buildings and the reduction of greenhouse gas (GHG)	20.0	Conditional Requirement	Minimum standard	Complies

CATEGORY / CREDIT	AIM OF THE CREDIT / SELECTION	CODE	CREDIT CRITERIA	POINTS AVAILABLE	POINTS TARGETED
		00.4		40	40
	emissions associated with the use of energy in building operations.	20.1	GHG Emissions Reduction	18	12
		20.2	Potable Water and Waste Water Treatment - Options Analysis	2	0
Peak Electricity Demand Reduction	To encourage the reduction of peak demand load on the electricity network infrastructure.	21.1	Modelled Performance Pathway: Reference Building	2	0
Energy Total				22	12
Water				7	
Potable Water	This credit includes one pathway to demonstrate	22.1	Taps	1	1
	reductions in potable water consumption.		Urinals	1	N/A
			Toilets	1	1
			Showers	1	1
			Clothes Washing Machines	1	1
			Dishwashers	1	1
		22.2	Fire System Test Water	1	1
		22.3	Potable Water Leak Detection	1	1
Water Total				8	7
Materials				15	

CATEGORY / CREDIT	AIM OF THE CREDIT / SELECTION	CODE	CREDIT CRITERIA	POINTS AVAILABLE	POINTS TARGETED
Life Cycle Impacts	Performance Pathway - Life Cycle Assessment	23A.1	Comparative Life Cycle Assessment	6	3
		23A.2	Additional Life Cycle Impact Reporting	4	3
Responsible Building Materials	To reward projects that include materials that are responsibly sourced or have a sustainable supply chain.	24.1	Structural and Reinforcing Steel	1	0
		24.2	Timber Products	1	0
		24.3	Permanent Formwork, Pipes, Flooring, Blinds and Cables	1	0
Sustainable Products	To encourage sustainability and transparency in product specification.	25.1	Product Transparency and Sustainability	3	2
Construction and Demolition Waste	Fixed Benchmark	26A	Fixed Benchmark	1	1
Materials Total				15	7
Environment and Wildlife Protection				8	
Environmental Protection	To ensure projects are delivered in accordance with requirements of the Protocol on Environmental Protection to the Antarctic Treaty.	27.0	Environmental Protection: Minimum Requirement	Minimum standard	Complies
Biosecurity	To ensure projects are delivered in accordance with requirements of the Protocol on Environmental Protection to the Antarctic Treaty.	28.0	Environmental Protection: Minimum Requirement	Minimum standard	Complies

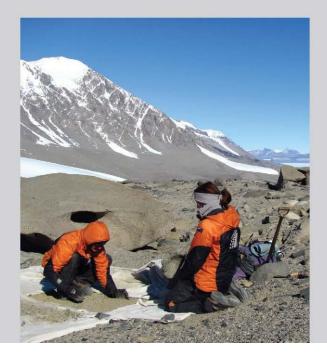
CATEGORY / CREDIT	AIM OF THE CREDIT / SELECTION	CODE	CREDIT CRITERIA	POINTS AVAILABLE	POINTS TARGETED
		28.1	Biosecurity During Construction	1	1
		28.2	Operational Biosecurity	1	1
Site Remediation	To reward projects that choose to reuse previously developed land, and that remediate contaminated land.	29.1	Reuse of Land	1	1
		29.2	Contamination and Hazardous Materials	1	1
Light Pollution	To reward projects that minimise light pollution.	30.0	Light Pollution to Neighbouring Bodies	Minimum standard	Complies
		30.1	Light Pollution to Night Sky	1	1
Water Pollutants	To reward projects that reduce pollutants entering water bodies.	31.0	Water Pollutant Management Plan	Minimum standard	Complies
		31.1	Non-point source pollution	1	1
		31.2	Wastewater Systems	1	1
Refrigerant Impacts	To encourage operational practices that minimise the environmental impacts of refrigeration equipment.	32.1	Refrigerants Impacts	1	1
Environmental Protection Total				8	8

CATEGORY /	AIM OF THE CREDIT / SELECTION	CODE	CREDIT CRITERIA	POINTS	POINTS
CREDIT				AVAILABLE	TARGETED
Innovation				10 under any sub- category	
Innovative Technology or Process	The project meets the aims of an existing credit using a technology or process that is considered innovative in Antarctica or the world.	30A	Innovative Technology or Process		1
Market Transformation	The project has undertaken a sustainability initiative that substantially contributes to the broader market transformation towards sustainable development in Australia or in the world.	30B	Market Transformation		1
Improving on Green Star Benchmarks	The project has achieved full points in a Green Star credit and demonstrates a substantial improvement on the benchmark required to achieve full points.	30C	Improving on Green Star Benchmarks		1
Innovation Challenge	Where the project addresses a sustainability issue not included within any of the Credits in the existing Green Star rating tools.	30D	Innovation Challenge		1
Global Sustainability	Project teams may adopt an approved credit from a Global Green Building Rating tool that addresses a sustainability issue that is currently outside the scope of this Green Star rating tools.	30E	Global Sustainability		
Innovation Total				10	4

Field Activities

Every effort should be made to minimise the impact of scientific investigations and field activities.

- Camp away from lakeshores, streambeds, vegetated areas and wildlife to avoid contamination and/or disturbance.
- Where possible, place tents and equipment on snow or previously used campsites.
- Secure all waste and equipment to prevent it blowing away and to prevent foraging by wildlife.
- Where possible, use solar power to minimise fuel use.
- Minimise water use to reduce the volume of grey water returned to Scott Base. Use paper towels for wiping plates in the field instead of washing dishes.
- Where possible, use established tracks. Otherwise, take the most direct route that avoids fragile terrain and plant and animal communities.
- Never paint or deface rocks or ice-free surfaces.
- Leave no sign of your visit. Remove everything you take into the field, and make every effort to return sites to their natural state.
- Keep accurate records of your campsite including location, sites of tents and equipment (such as generators), amount of waste generated, and the location of any equipment left in the field. Include this information in your end of season report.
- Record all incidents, hazards or near-misses, and report them during your next scheduled radio contact with Scott Base.





Take Only Photographs

Removal of any natural material, unless it is part of an approved Environmental Impact Assessment, may be considered an offence under the Antarctica (Environmental Protection) Act (1994).

- Do not remove rocks, soil, minerals, fossils, volcanic bombs or ventifacts unless you have specific approval to do so.
- Do not remove feathers, bones, vegetation or other natural materials unless you have approval to do so.
- Do not build cairns, and minimise the use of markers or other objects to mark sites.
- Do not wash, swim or dive in lakes or streams unless authorised to do so; these activities contaminate the water body and physically disturb the water column, delicate microbial communities, and sediments.
- Report items discovered in the field (e.g. old food caches, old equipment, markers, etc.). Take photographs, record the GPS position and notify Scott Base. A decision to either remove the items or leave *in situ* will be made once an evaluation has been conducted.



Antarctica is one of the least disturbed places on Earth. To visit is a privilege, and the responsibility lies with you to protect the intrinsic and scientific values of its environment. This Environmental Code of Conduct is intended as a guide, but cannot be expected to cover every situation. You should always strive to minimise your impact.

CHECKLIST

MAXIMISE your Antarctic experience with MINIMUM environmental impact

- MINIMISE IMPACTS: Understand what activities you have approval for, and minimise their impacts.
- **RESPECT SPECIAL AREAS:** Know where designated areas are and respect the access requirements.
- PROTECT WILDLIFE AND PLANTS: Leave foreign species at home, and give wildlife space.
- **CONSERVE RESOURCES:** Do your best to minimise water and energy use.
- PREVENT SPILLS: Take care when handling and storing fuel and hazardous substances.
- MANAGE WASTE: Reduce, recycle, and be prepared when away from facilities.
- **CAMP WITH CARE:** Reuse past sites, secure gear, and leave sites as close as possible to their natural state.
- TAKE ONLY PHOTOS: Enjoy the fantastic landscapes and environments of Antarctica and remember that natural materials (rocks, fossils, bones, feathers etc.) must stay where they are.



Environmental Code of Conduct

MAXIMISE your Antarctic experience with MINIMUM environmental impact



Environmental Impact Assessment

Under the Antarctica (Environmental Protection) Act (1994), an Environmental Impact Assessment must be completed for all activities in Antarctica. The assessment should outline your intended activities, identify the potential environmental impacts, and describe how you plan to mitigate your impacts to the fullest extent possible. The assessment must be approved by the Minister of Foreign Affairs before the proposed activities can take place. Some activities are prohibited except in accordance with a permit. These are entering an Antarctic Specially Protected Area (ASPA), interfering with or sampling flora or fauna, and introducing non-native species to Antarctica. The Minister issues permits for these activities as part of the approval of your Environmental Impact Assessment.

- Be familiar with your Environmental Impact Assessment and your conditions of approval.
- Know the specific sites and activities your Event is approved for.
- Understand your reporting requirements before you depart for Antarctica.
- Seek an amendment to the approval if your proposed activities change.

Protecting Special Areas

Certain areas of Antarctica are set aside as Antarctic Specially Protected Areas (ASPAs), Antarctic Specially Managed Areas (ASMAs), or Historic Sites and Monuments (HSMs) in order to protect natural, physical and heritage values.

- Be aware of the location of and restrictions associated with ASPAs, ASMAs and HSMs when planning your activities.
- Entry into an ASPA is prohibited except in accordance with a permit, which must be carried when entering these areas.
- All historic huts in the Ross Sea region are ASPAs, and the entire McMurdo Dry Valleys are an ASMA.
- Always consult the Management Plan for any ASPA or ASMA you will be operating within or around. Copies are available on the Antarctic Treaty Secretariat's website: <u>www.ats.aq</u>



Protection of Wildlife and Plants

Antarctic wildlife and plants can be very sensitive to human disturbance. Unless you have a permit, disturbance of wildlife or damage or removal of plants may constitute 'harmful interference' which is prohibited under the Antarctica (Environmental Protection) Act (1994).

- Clean your clothing, boots and equipment before travelling to Antarctica. Pay particular attention to boot treads, Velcro fastenings and pockets which could contain soil or seeds.
- Introducing non-native species, including any animal, plant or non-sterile soil is prohibited except in accordance with a specific permit.
- Do not remove or interfere with plants or animals unless you have a permit to do so.
- · Keep noise to a minimum in the vicinity of wildlife.
- Always give wildlife the right of way, and do not block their access routes.
- Stay 10 metres away from any animal unless it comes to you. Increase this distance if the animal appears disturbed, and take particular care around nesting birds.
- Wherever it is safe to do so, keep vehicles a minimum of 200 metres away from wildlife.
- Take special care when photographing, and do not walk through bird or seal colonies.
- Do not walk or drive on vegetation, including mosses and lichens.
- Do not take poultry or poultry products into or near bird colonies, due to the risk of introducing avian diseases.





Energy and Carbon Management

Antarctica New Zealand is committed to minimising our environmental footprint. Your behaviour can have a large impact.

- Turn off lights, equipment and other appliances when not in use.
- Keep doors closed to avoid heat loss.
- Reduce your shower time to conserve water aim for three minutes.
- Reduce the amount of laundry you do when at Scott Base. Take your last load of laundry home and use the drying room rather than the clothes dryers.
- Minimise vehicle use by ride-sharing, or walking.
- Minimise food waste by taking only as much as you can eat.

Hazardous Substance Management

The impacts of fuel or other hazardous substance spills on the environment can be significant if appropriate action is not taken quickly. Prevention is the best defence.

- Minimise the handling and storage of fuel and hazardous substances, especially in the vicinity of sensitive areas such as freshwater lakes and streams, the marine environment, bird and seal colonies, and areas of vegetation.
- Store all fuel and hazardous substances using secondary containment such as bunding, drip trays or sorbent mats.
- Always have a spill kit nearby when handling fuel and hazardous substances.
- When possible, work in pairs when refuelling vehicles or equipment.
- Refuel vehicles and other equipment out of the wind, and use funnels or a spill pad to avoid spilling drips.
- Check equipment for faults and leaks prior to use.
- If a spill does occur, respond quickly using the procedures in your field manual.





Waste Management

Most activities carried out in Antarctica will produce waste, almost all of which is returned to New Zealand for treatment and disposal. All waste must be correctly handled, whether in the field or at Scott Base.

- Minimise the generation of waste by removing unnecessary packaging and other potential waste before it is sent to Antarctica or into the field.
- Choose reusable packing materials like bubble wrap, cardboard or paper.
- Polystyrene beads, chips or similar forms of packaging, nonsterile soil, polychlorinated biphenyls (PCBs) and pesticides are prohibited and should not be sent to Antarctica.
- Vermiculite should only be used for packaging hazardous liquids.
- Separate the waste you produce and dispose of it in the correct waste stream at Scott Base.
- Open burning of waste is prohibited.
- All field waste must be collected and returned to Scott Base, including grey water and human waste.
- Be prepared carry a personal pee bottle when travelling away from Scott Base or your field camp.

