

Potential North: Anthropogenic Infrastructure in the Extractive Territory

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Greenland may be the next petro-territory. Granted political autonomy from Denmark in 2009, Greenland saw its financial subsidy— which supported resource and infrastructural networks— capped. In response to its growing need to address economic concerns, Greenland is actively exploiting its natural resources, opening mineral mines and promoting oil and gas exploration. A pipeline would be probable infrastructure to transport oil down the coast from the ice-present waters in the north: this pipeline serves as the site for Potential North.

Of the territory's sparse towns and villages, those in the north were most dependent on subsidy for resource networks. Once self-sufficient— living off the land through sustenance hunting and resource gathering— modernization of these towns has introduced contemporary urban elements. These northern settlements now exist in a conflicted state, between a traditional lifestyle and the globally homogenized existence, but without economic viability. Many rely on fishing exports, but are looking for new economic activities— petroleum is a potential future.

Potential North challenges the after-the-fact architectural reaction to infrastructural opportunism by introducing holistic interventions along an oil pipeline developed at the outset of extraction. This project aims not to condemn or suggest alternatives to future petroleum extraction, but presents robust architectural solutions which makes better an uncomfortable inevitability— taking the pipeline as site.

Infrastructure, particularly extractive infrastructure—comprised of both physical ecologies and logistic networks— exists at the intersection of the Humanity / Nature duality, an ever-evolving relationship of human's understanding of it's environment. Urban expansion continually places infrastructure systems in opposition to Natural forces, resulting in a shift of design power from architects and urbanists to engineers. These engineered infrastructures prioritize the pragmatic and

specific, often negating social or cultural influences. This project returns that power to the architect by siting opportunities for intervention, synthesizing the technical with the cultural, adding richness in the banal.

The Arctic presents a unique background for the exploration of cultured infrastructure as Arctic oil and gas reserves sit at the edge of extractive feasibility. These extractive frontiers revive certain aspects of American Wild West frontierism— technological ingenuity, societal freedoms, and environmental opportunism— in precipitation of spatial products reacting to their unique environment. These sites offer not only suggestions towards a new Arctic vernacular, but provide an exploratory medium at the intersection of architecture and infrastructure.

Extractive infrastructure works at the scale of global capital, it intersects both Humanity and Nature, yet rarely promotes either in a productive way— solely serving the far-off economic entities of resource consumption. In a territory caught between economic autonomy and natural and cultural exploitation, the seemingly inevitable pipeline infrastructure must be reconsidered to address local concerns. Potential North examines how infrastructure may be utilized to serve more than one public— considering a more holistic design which recognizes the expanded ecological, political, economic and cultural environmental context— to speculate on opportunities producing tangible benefits to the species existing at the interface.

