OIL and the built environment
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Problem Statement

In what ways do oil drilling operations affect nearby communities?
Theoretical Premise

During an oil boom, steps must be taken in order to prevent communities from collapsing and becoming ghost towns when the boom ends.
Project Justification

When an oil drilling site is abandoned, so too is the community in which it created. In order for the community to continue to thrive, it is crucial that design decisions are sensitive to the volatility of the business.
Typology

This is a residential typology in the form of a housing community that is able to adapt to the various needs of an area in transition.
Bakken Formation

Minot
Pop. 37,000

Bismarck
Pop. 56,000

Williston
Pop. 13,000

Stanley
Pop. 1,300

Bismarck
Pop. 56,000
WATER DIAGRAM

Clarify
Settle
Floc

Arctic Digesters and pre-treatment
Sludge
Public Lagoon - Plot

Overflow & Harvest Pond

Diver - 320/400 gallons
No claim for storage or equipment
Unit A: 2 Bedroom - 670 SF
Unit B: 2 Bedroom - 700 SF
Unit C: Studio/Efficiency - 500 SF
Longitudinal Section
Site Plan
71 Units
  34 - 1 BR’s
  37 - eff, 2, and 3 BR’s

~90 Parking Spaces