# Redeveloping the Stanley R. Mickelsen Safeguard Complex

Proposal for redeveloping the decommissioned Stanley R. Mickelsen Safeguard Complex administration block into a community for the new BitZero datamining center development.



This proposal outlines a plan to redevelop the decommissioned Stanley R. Mickelsen Safeguard Complex in North Dakota into a new community focused on providing housing for the development of the BitZero cryptocurrency datamining center that is predicted to bring about 200 new jobs to the area.

The complex, which was an anti-ballistic missile site during the Cold War, would be transformed into a place for families of new employees of the new BitZero datamining center being developed in the main pyramid

#### Ronald Reagan Minuteman State Historic Site



#### Location



Located Outside Nekoma, North Dakota

The complex is situated in the rural town of Nekoma in northeastern North Dakota.



Previously an anti-ballistic missile complex

The site was developed by the US Army as part of the Safeguard Program in the 1970s to house a ballistic missile defense system.

The Stanley R. Mickelsen Safeguard Complex has a unique history and geography that make it an interesting site for redevelopment.



### Background

The Stanley R. Mickelsen Safeguard Complex in Nekoma, ND was originally constructed in the 1970s as part of the United States Army's Safeguard anti-ballistic missile system. However, with the advancement of technology and changes in defense strategies, the complex became obsolete and was decommissioned in 1971 right after completion and fully deactivated a few years later.

It was the only site of the Safeguard Program to be fully constructed.

# Design Principles



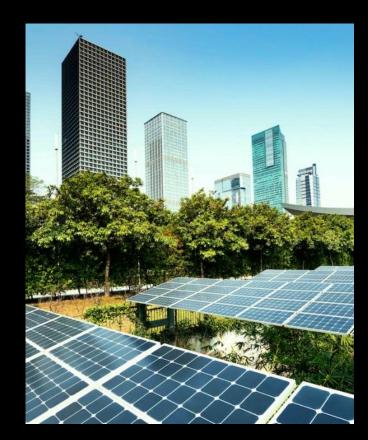
Historical Preservation

Keeping the external appearance of the existing structures.



Adaptive Reuse

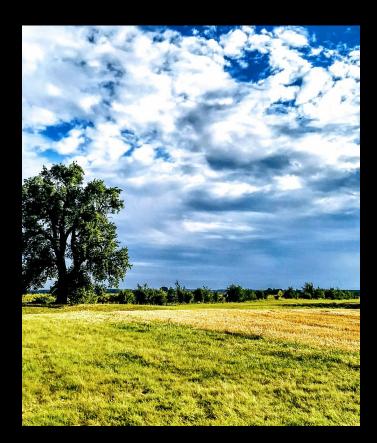
Adapting the use of existing structures to better serve the community's needs and requirements.



Sustainable Design

Use sustainable resources and methods to make the community more ecological.

# Design Challenges



Remote Location

The site is located outside a small village in the surrounded by agricultural land.



**Current Structure Condition** 

The existing buildings have been vacant for over 40 years. They are also not built to any building code.



Environmental

Development of the site have challenges with the environment due to weather and other natural variables.



### Case Study: Presidio

The Presidio is located in San Francisco. The Presidio is a former military installation that has been transformed into a national park and mixed use destination.

The Presidio project involved a strategic approach to repurposing the site, offering a mix of residential, commercial, and recreational spaces while preserving the historic and natural resources of the area.

## Community









Greenspaces

**Retail Stores** 

Housing

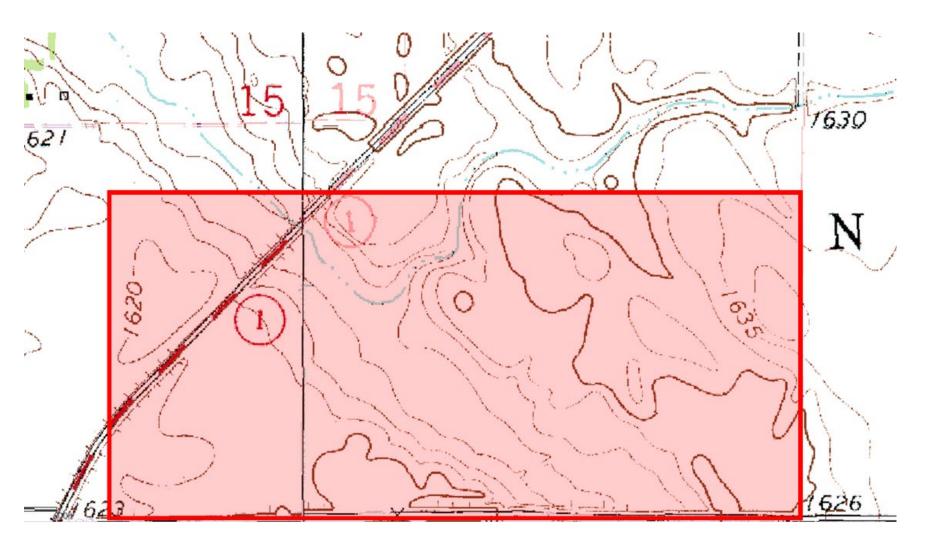
Education

The new community will feature parks and recreational opportunities for residents.

residents and provide amenities.

housing options for residents.

Retail stores will support the needs of The community will include various The addition of an education system will help support the families within and surrounding the community.



# Topography

- · 15 ft variation of terrain
- Current use of site: agriculture



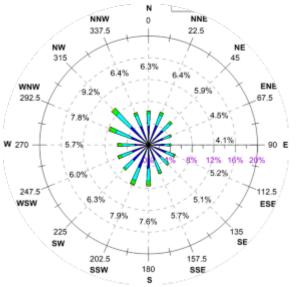
#### Sun Chart

 pale yellow area = sun path throughout the year



#### Wind

- Average Wind direction: from the Northwest
- Average Max Wind Speed:21-27 mph





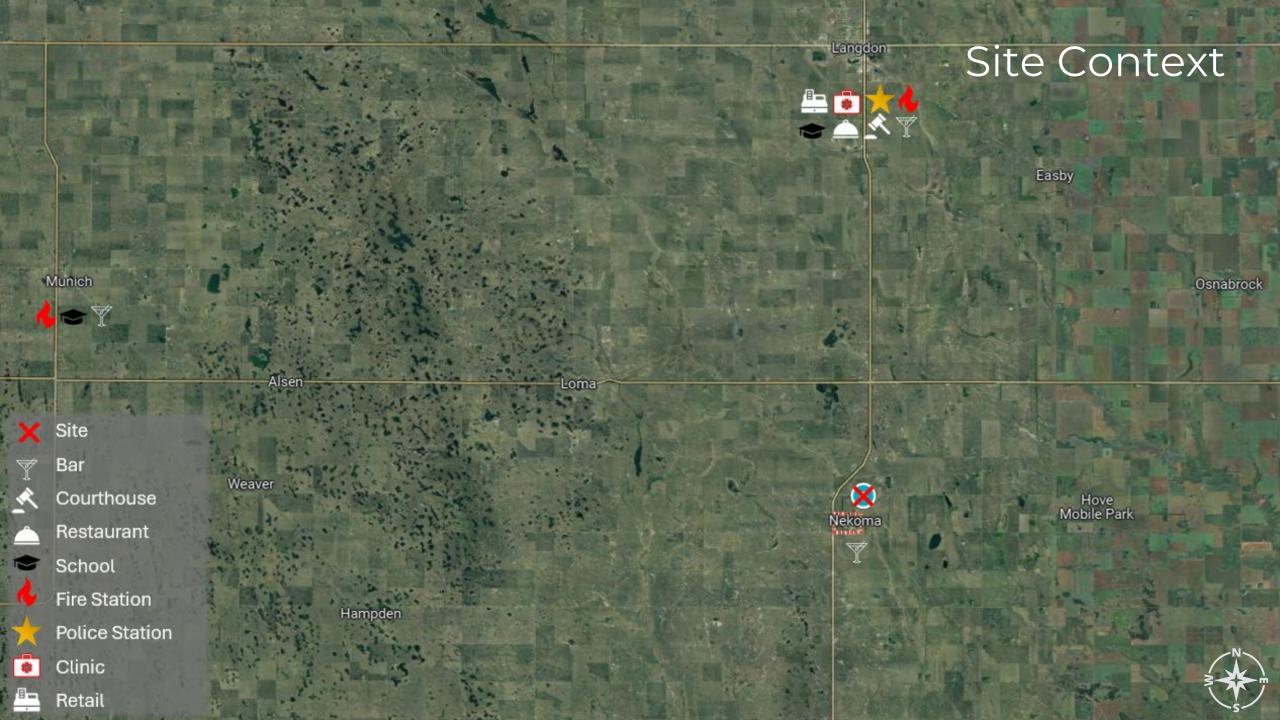
#### Noise

- · Main Contributors:
  - highway
  - · agricultural equipment



#### Circulation

- Green = Silo site roads
- Blue = Admin. site roads
- Yellow = 81st St NE
- Orange = Highway 1



#### Infrastructure



Medical

The nearest medical assistance to the site is a clinic 16 minutes away in Langdon, ND and the nearest hospital is located an hour away in Devils Lake, ND.



**Emergency Response and Security** 

The nearest police, ambulance, and fire station is 16 minutes away from the site.



Utilities

The site would have to be connected to utilities provided by surrounding towns as it previously had its own utility provisions.

## Sustainability









Greenspaces

Greenspaces provide spaces for spending time and allow for a calm, open environment to enjoy.

Water Retention

Water retention ponds allow for the use of collected rainwater throughout the site to be used for both aesthetic and functional purposes

#### Renewable Energy

The use of renewable energy helps households and businesses use a source of cleaner energy to assist the use of local power sources.

#### Pavers

The use of pavers rather than asphalt allows for the movement of the road surface to allow for less need for repair and allows greenery to grow between.

# Site Proposal



















#### Safeguard Communit

The redivelopment of the Stanley, R. Mickelson Safeguard Complies into a new comment a mill faceted initiative that encapsulates a vision of standardination and revisibilities a sentirel of national society during the height of the Cold Will, this complies now stands a testament to history, awaiting a new purpose than resonates with contemporary needs a

At its core, this refereborrent project is about more than jut repurposing physical structures it is about reimagining the very essence of the size. The expansive grounds and stunify infrastructure provide a solid foundation for the cross on of a modern, sustainable, and throng community.

spaces to ensure a cohesive and functional environment. Mixed-use development ma incorporated to create a systemic librard of residential, commercial, and recreational spalostering a series of wheating and activity.

Environmental sustainability is a key priority throughout the redevelopment process. This are mude to preserve and enhance each all habitatio, minimize carbon footprint, and entergo renewable energy sources. Green buildings recises and eco friendly amends services process as paramote, a healther and more outstandor way of life for residents.

Economic considerations are also carefully weighted to ensure the long-term viability prosperity of the new community. Job creation, business apportunities, and property so

















#### Conclusion

Redeveloping the historic Stanley R. Mickelsen Safeguard
Complex site will bring economic benefits by creating
construction jobs and long-term employment opportunities. It
will bring social benefits by preserving an important piece of
history and providing community amenities. Environmentally,
redevelopment promotes sustainability through adaptive
reuse rather than demolishing old structures.