



Civil and Environmental
Engineering

Jefferson County Conservation Area Campground Redevelopment

Final Project Presentation

May 14th, 2025

Our Team



Gabe Baird
Project Manager



Alex Gates
Architect



Joseph Tippet
Structural Designer

Our Team



Matthew Pauling
Water Resource Designer



Sydney Parks
Site Designer

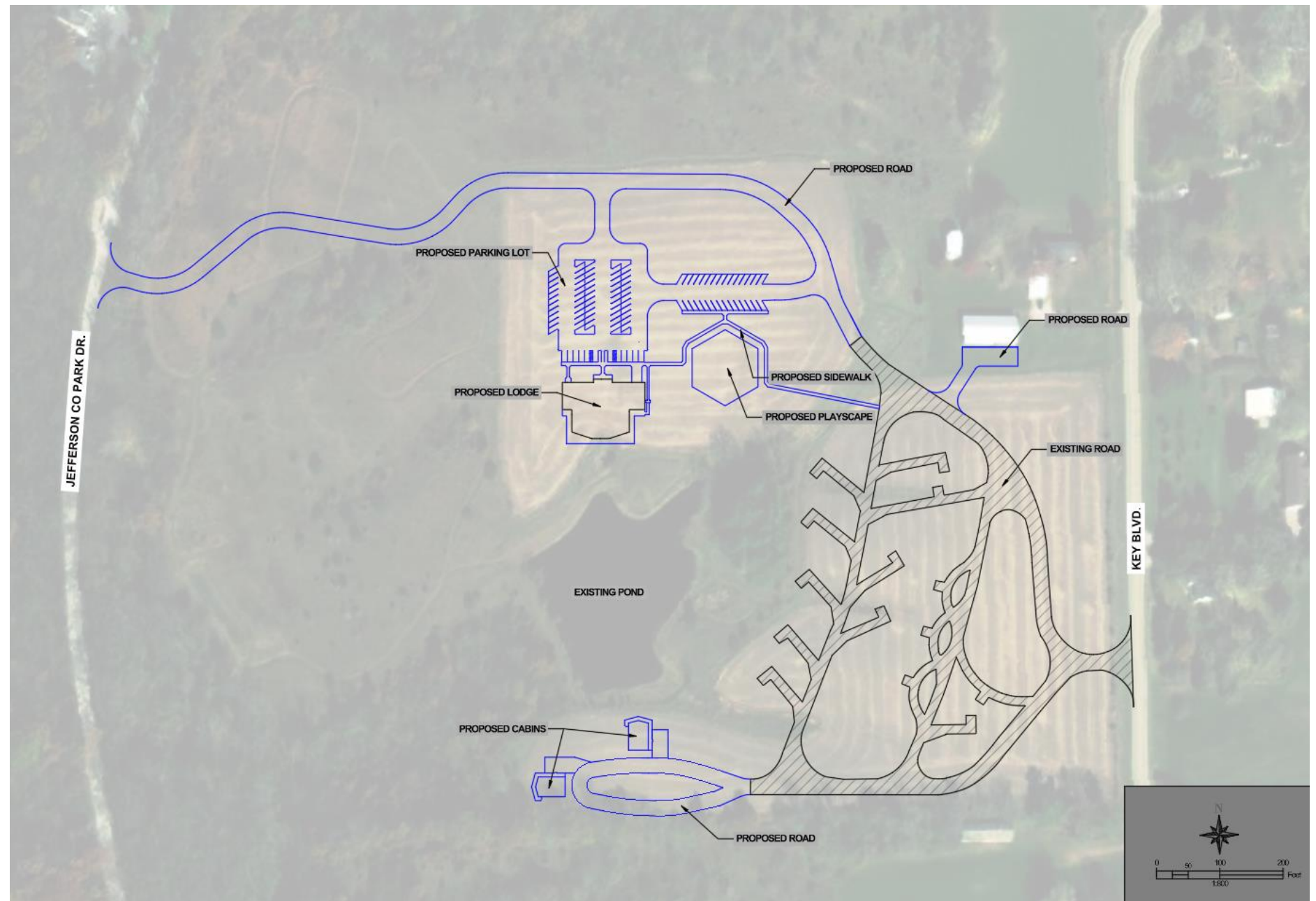


Paul Hanley
Faculty Advisor

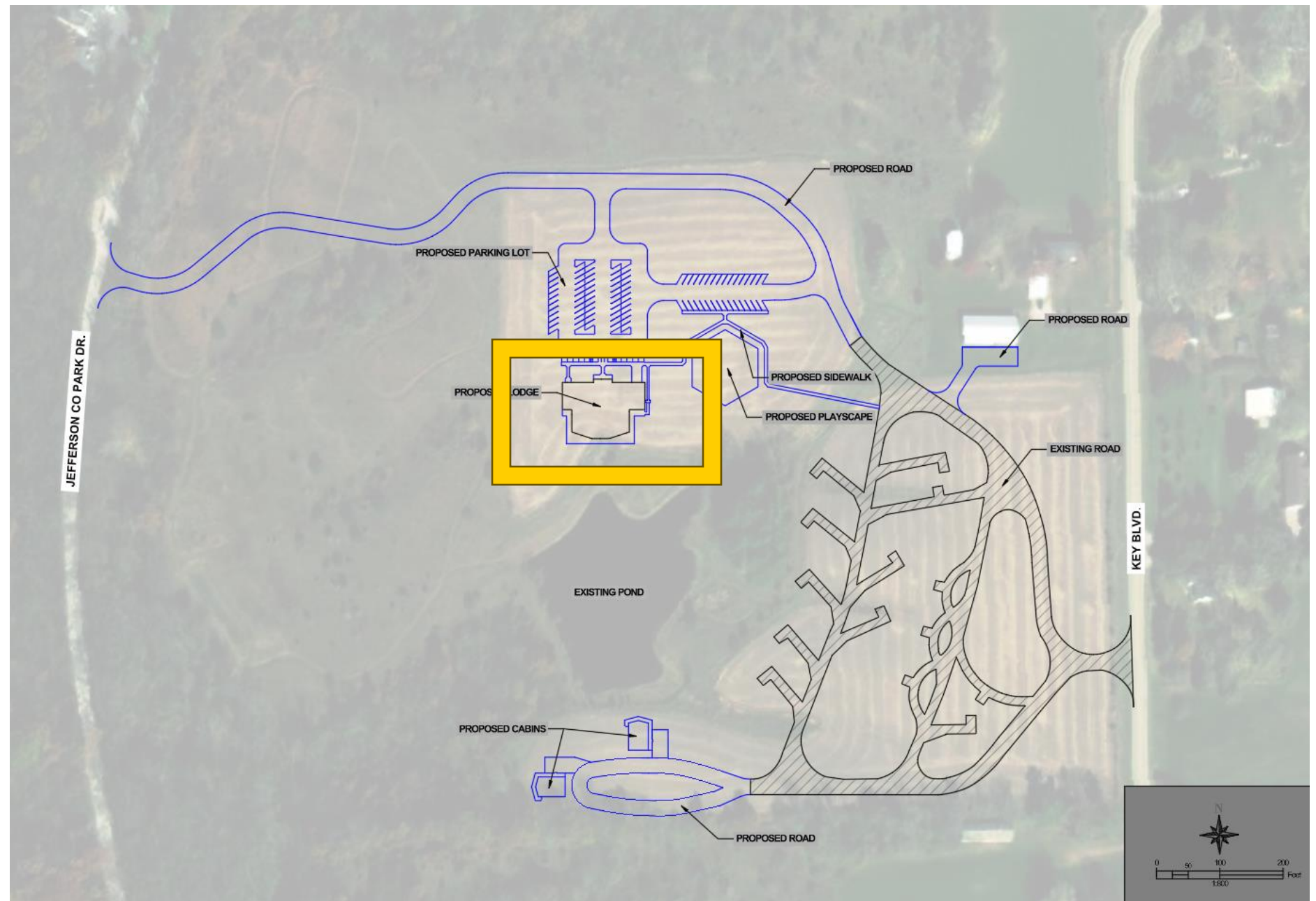
Existing Site



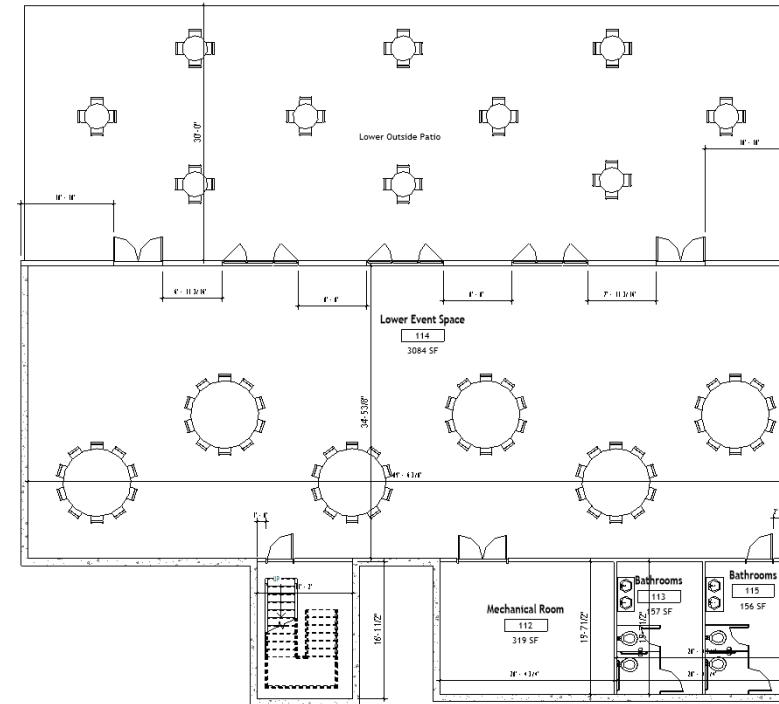
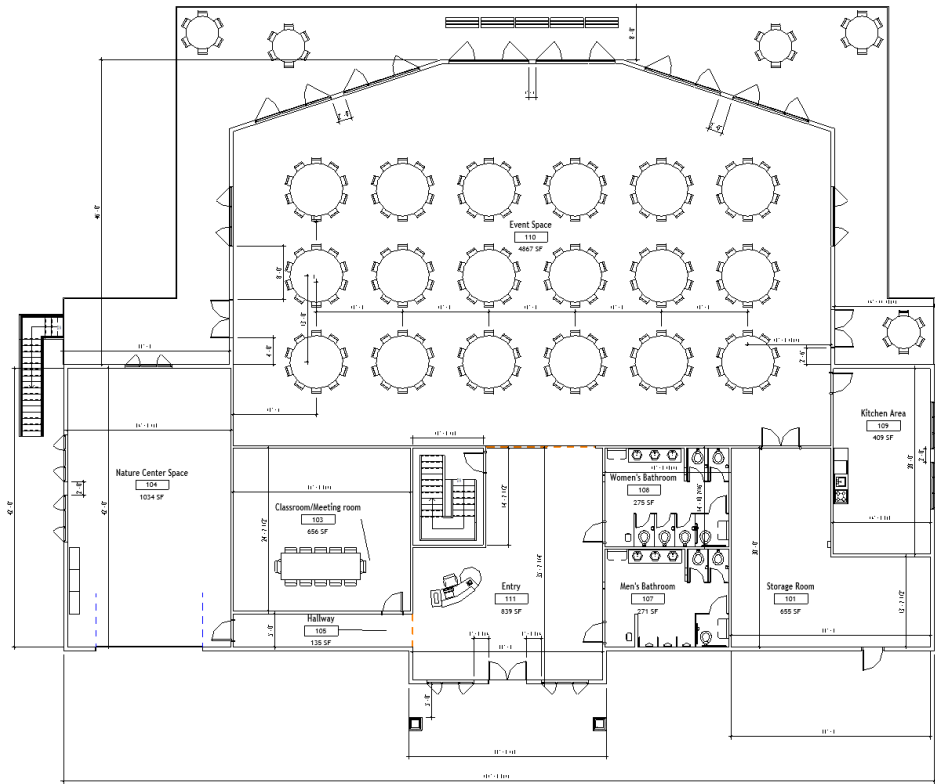
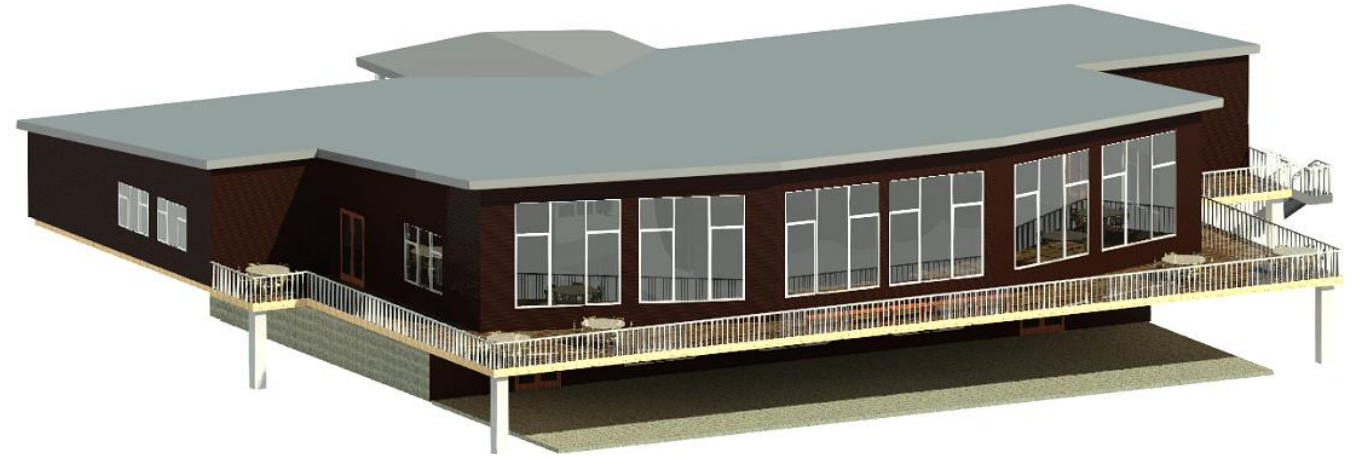
Proposed Site



Multi-Use Lodge



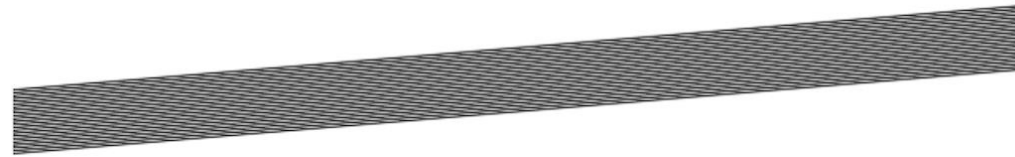
Multi-Use Lodge



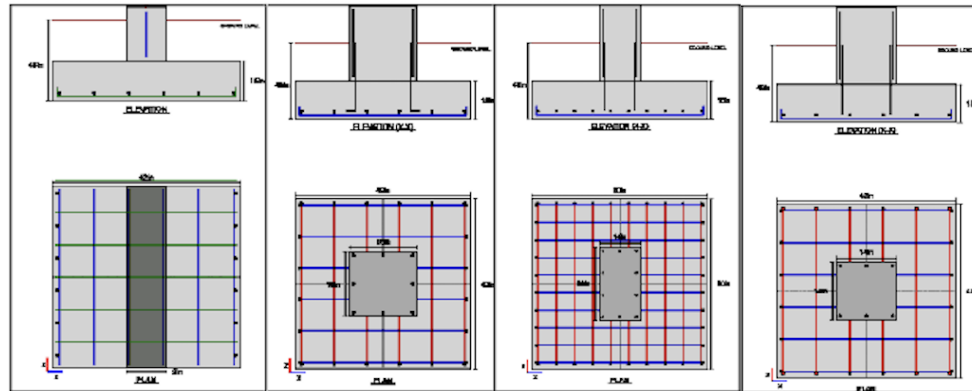
Multi-Use Lodge



Structural Design



24F-V5 SP/SP
Glulam Beam

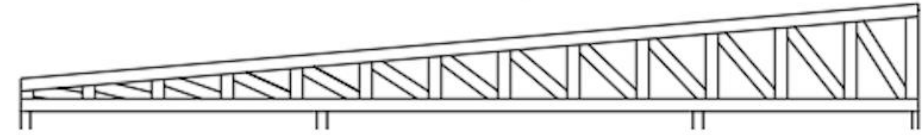


9" and 42" Strip
Footing

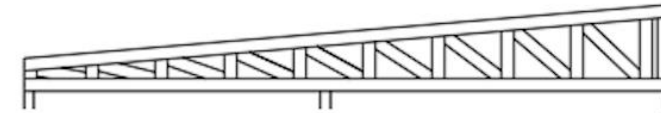
16" x 16"
Stem Spread
Footing

60" x 60"
Spread Footing

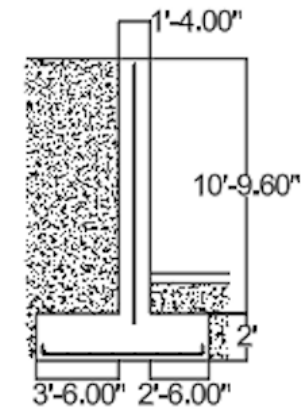
42" x 42"
Spread Footing



Monoslope
4-support
Truss

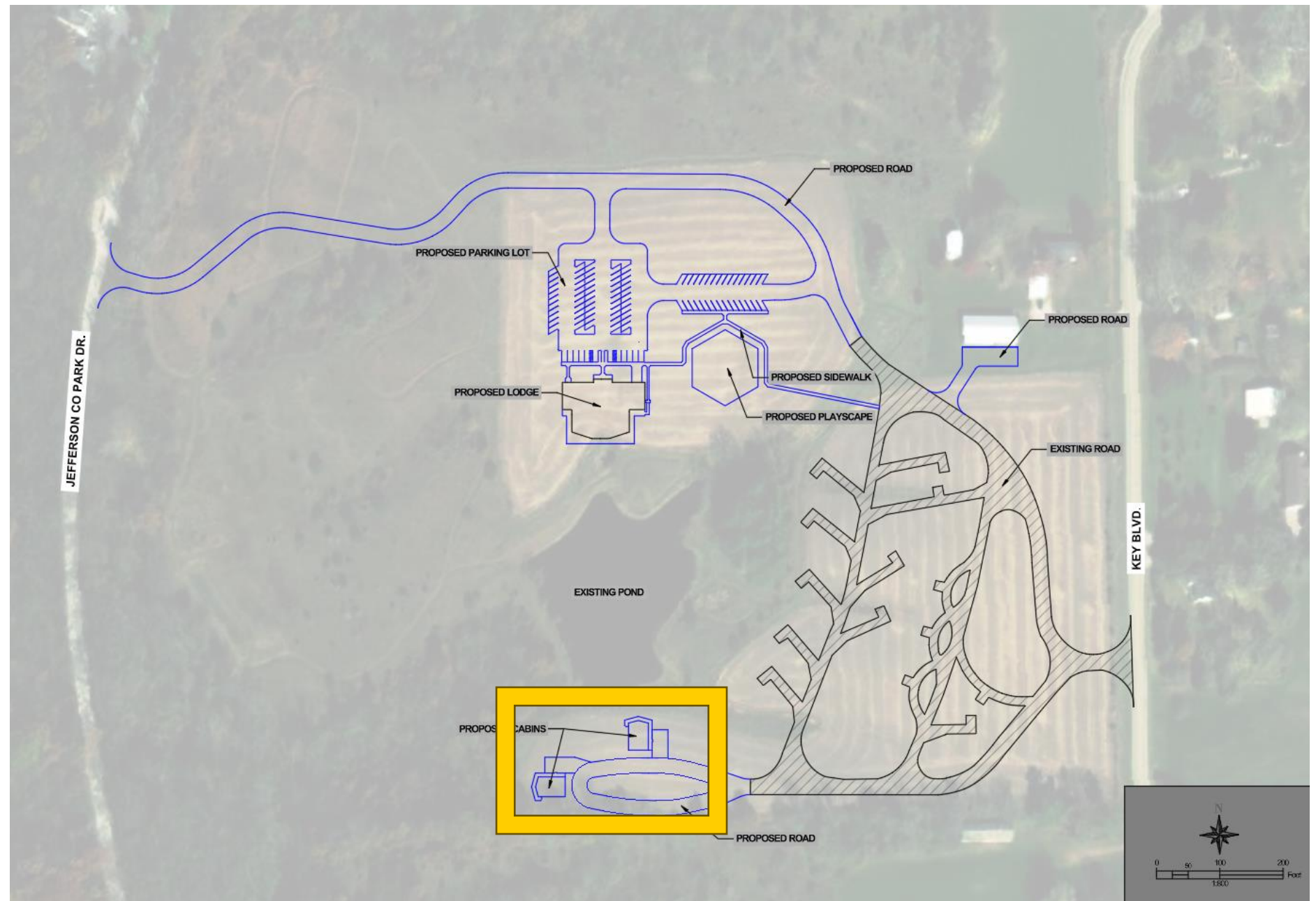


Monoslope
3-support
Truss

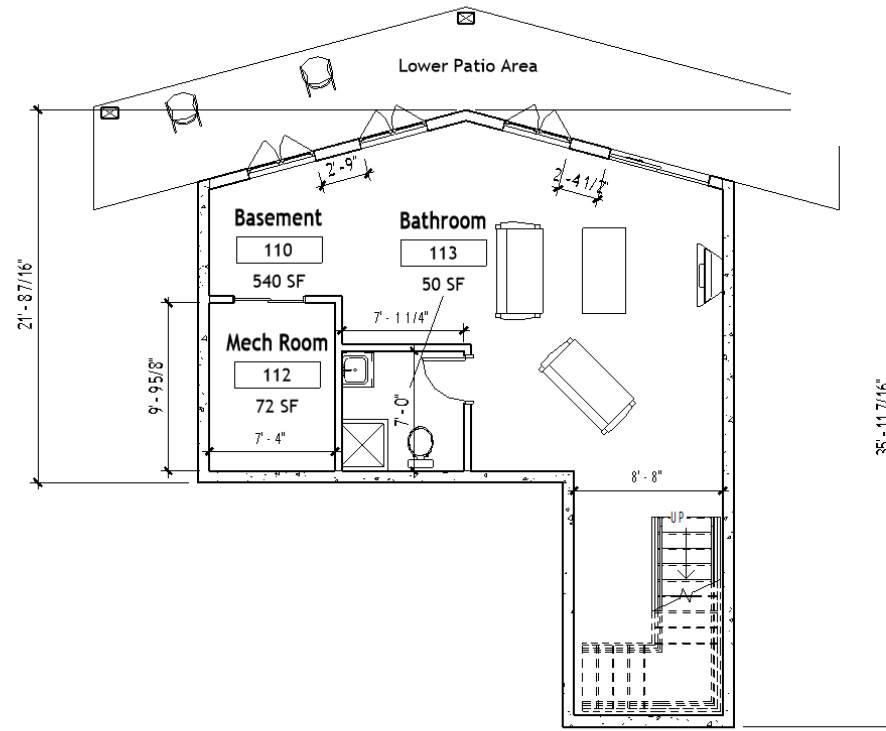
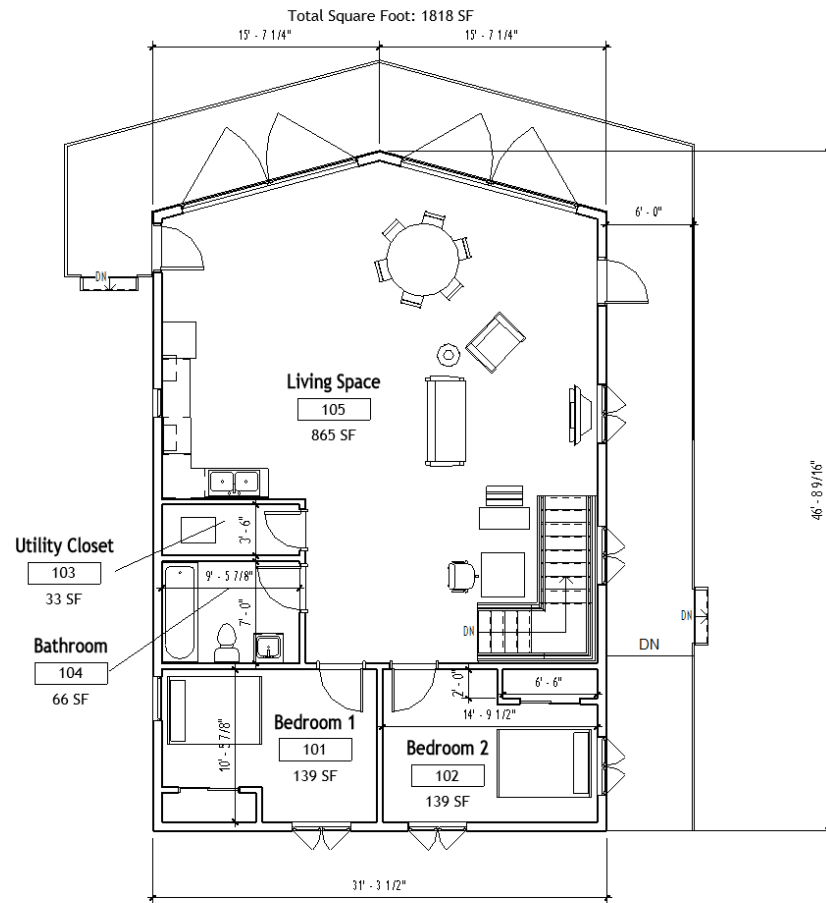


Multi-Use
Lodge Load
Bearing Wall

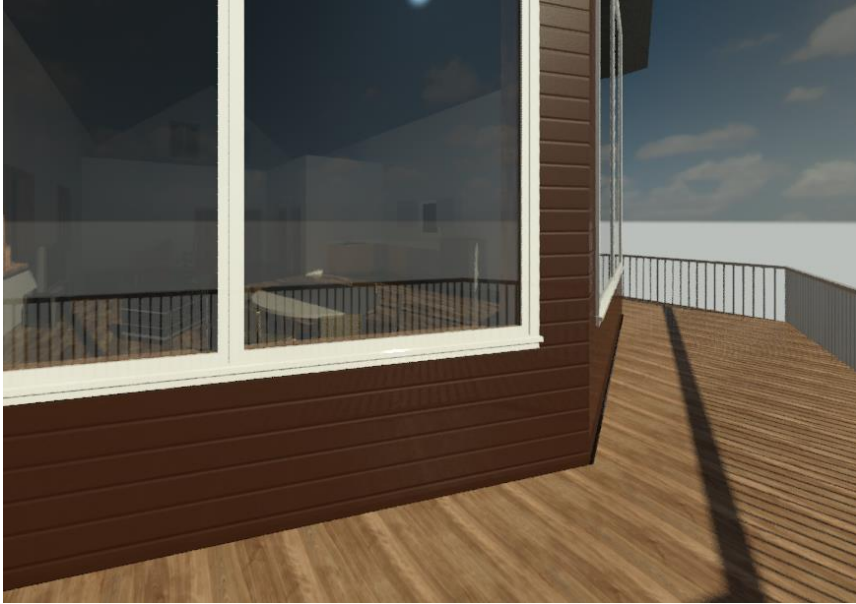
Year-Round Cabins



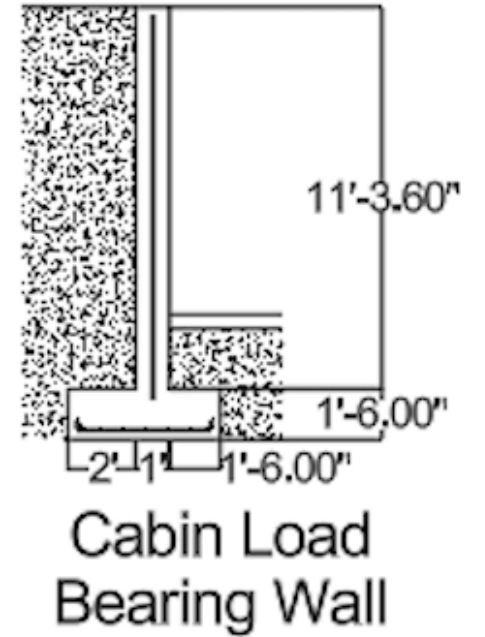
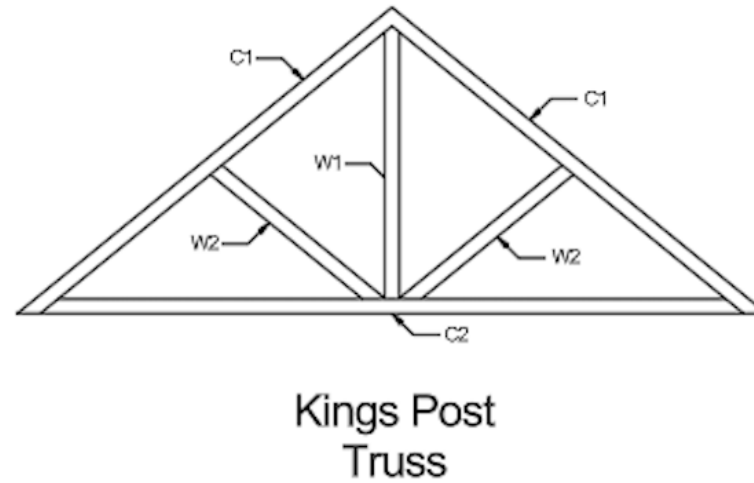
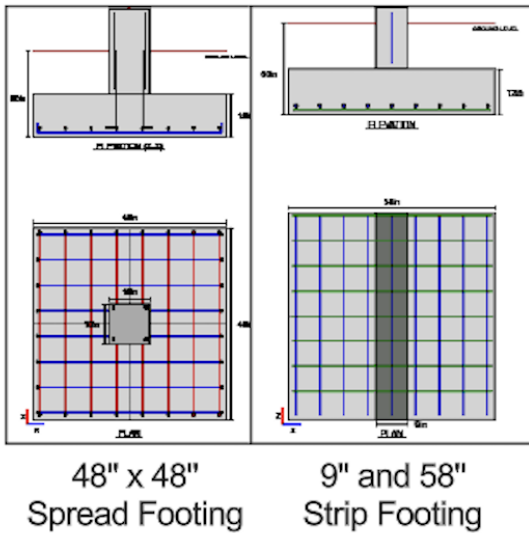
Year-Round Cabins



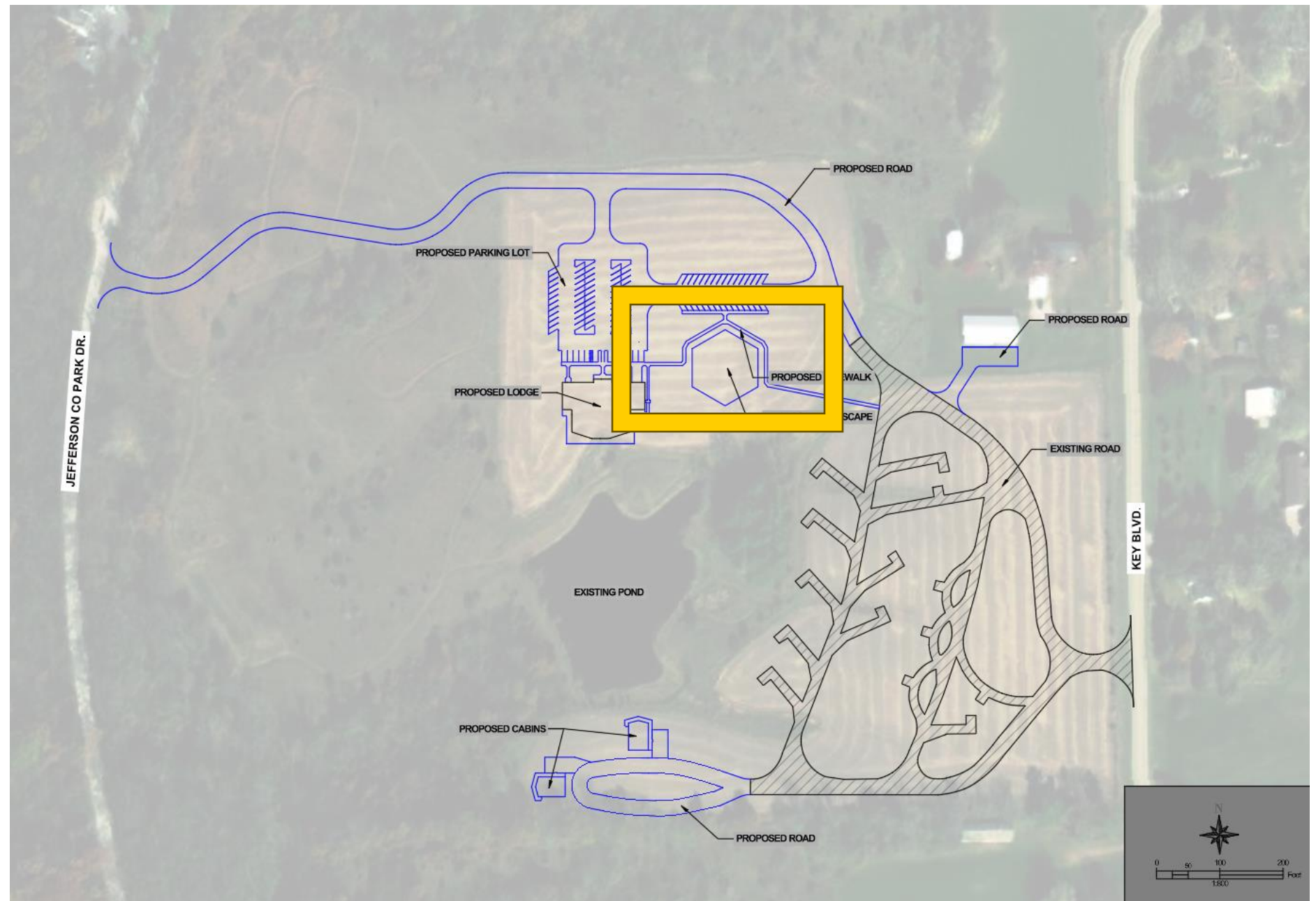
Year-Round Cabins



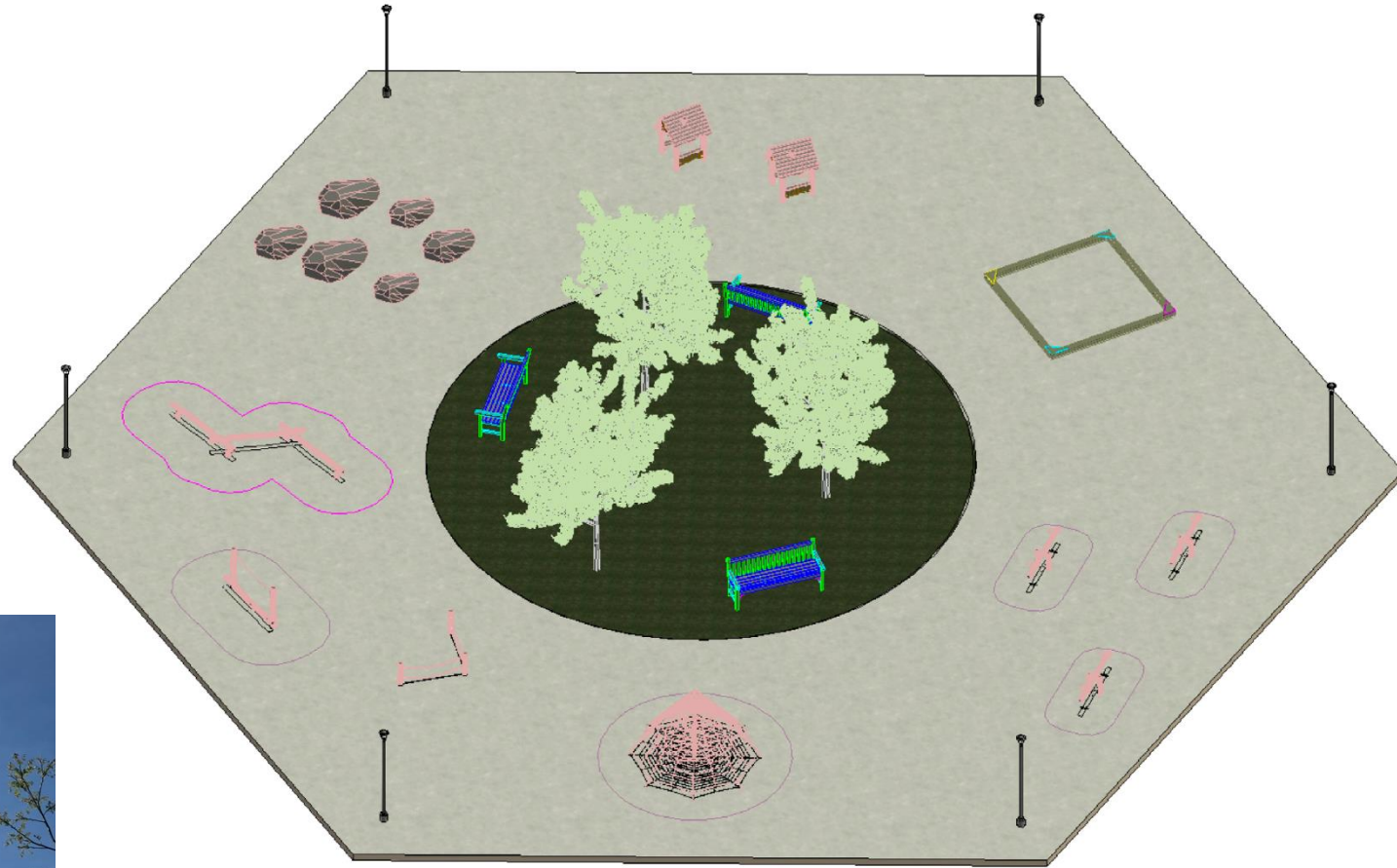
Structural Design



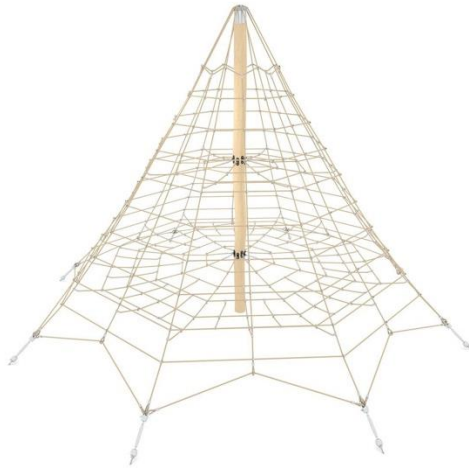
Nature Playscape



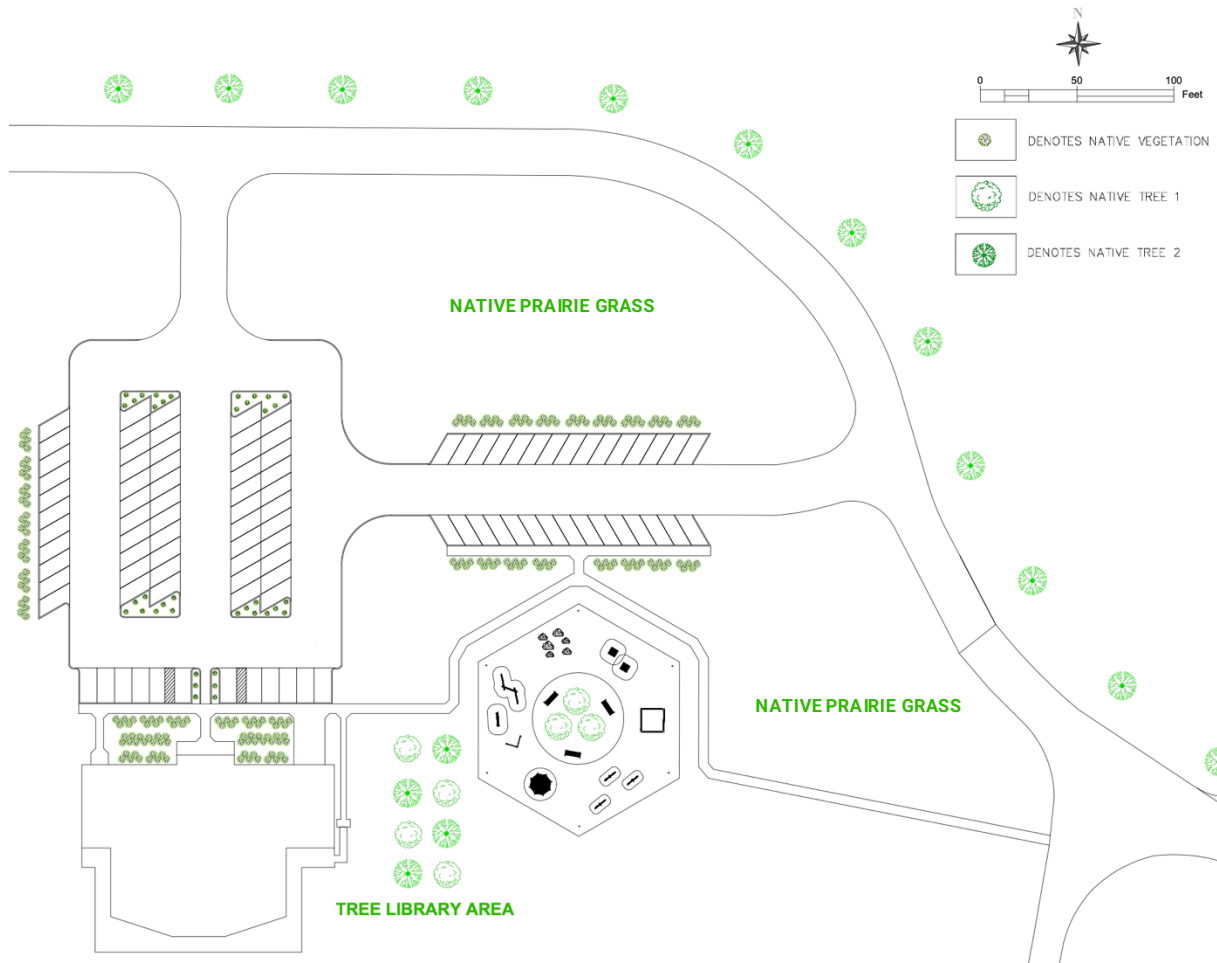
Nature Playscape



Nature Playscape

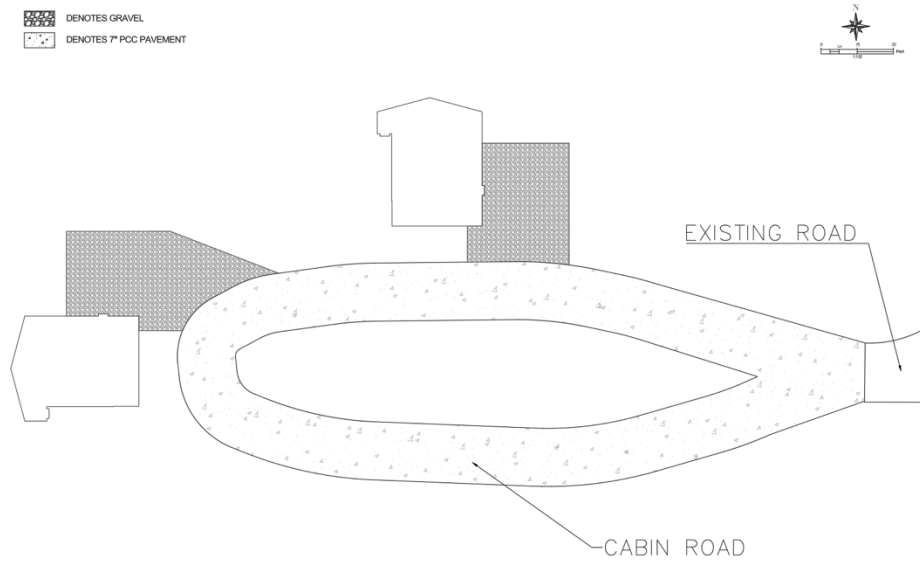


Landscaping

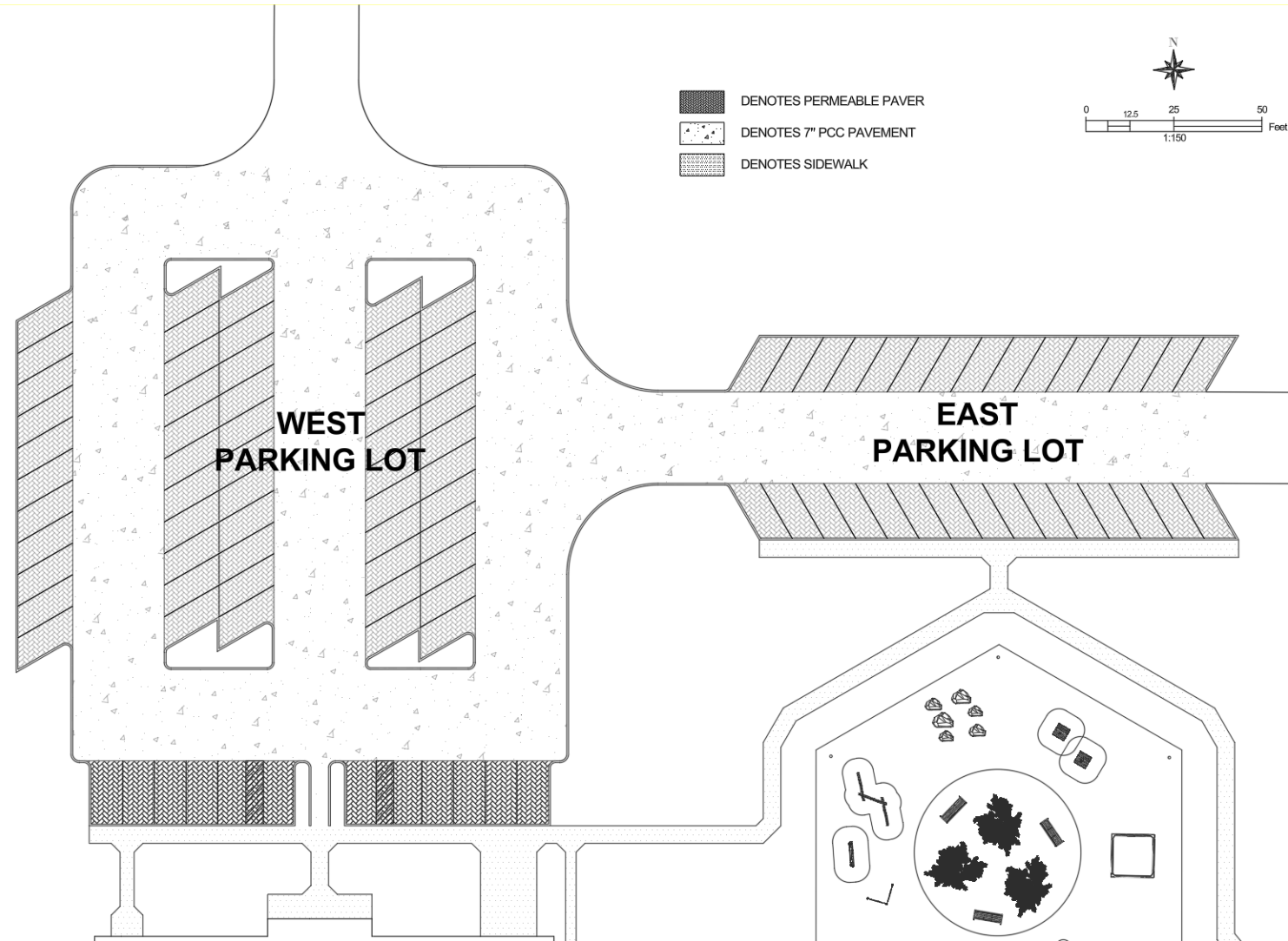
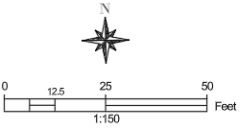


Parking Design

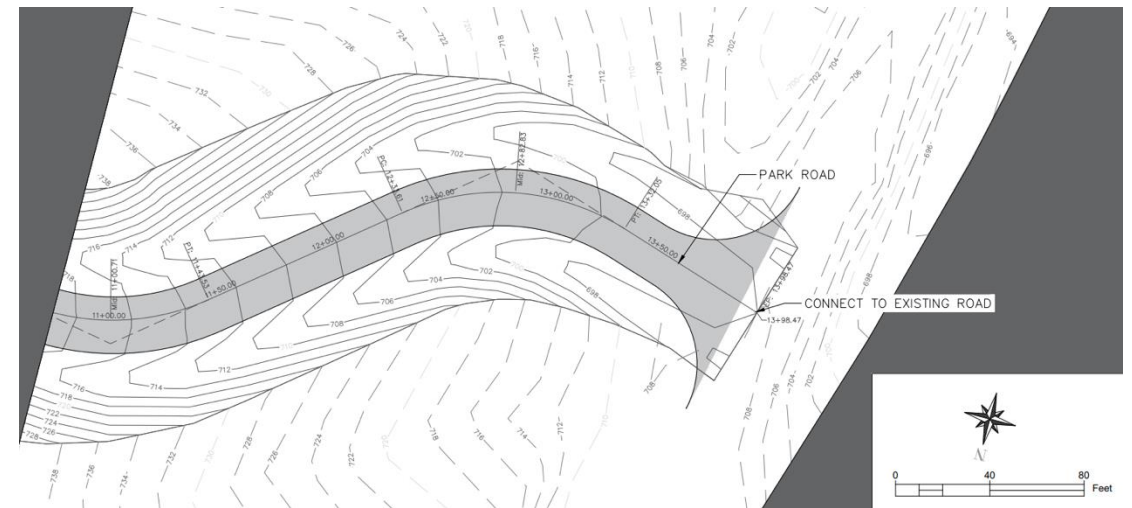
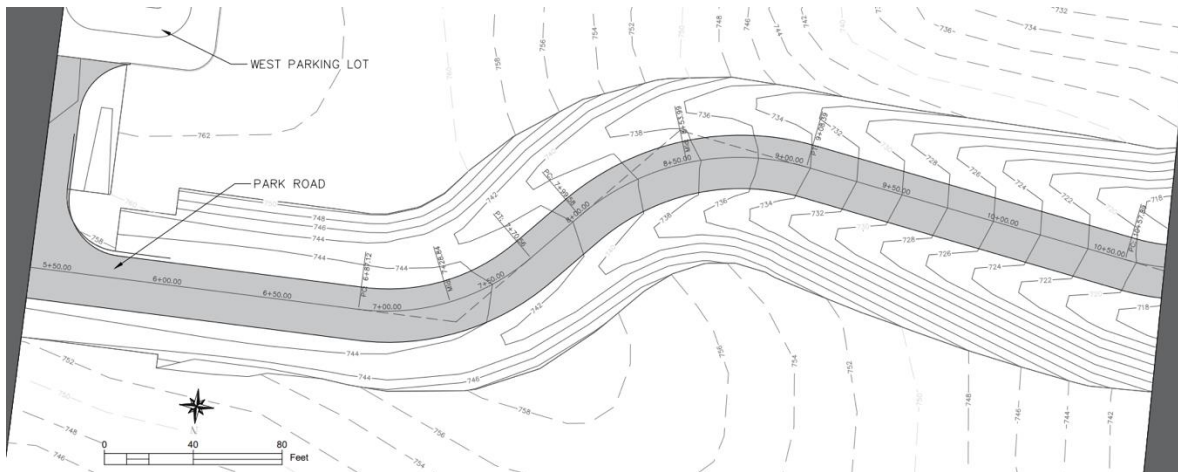
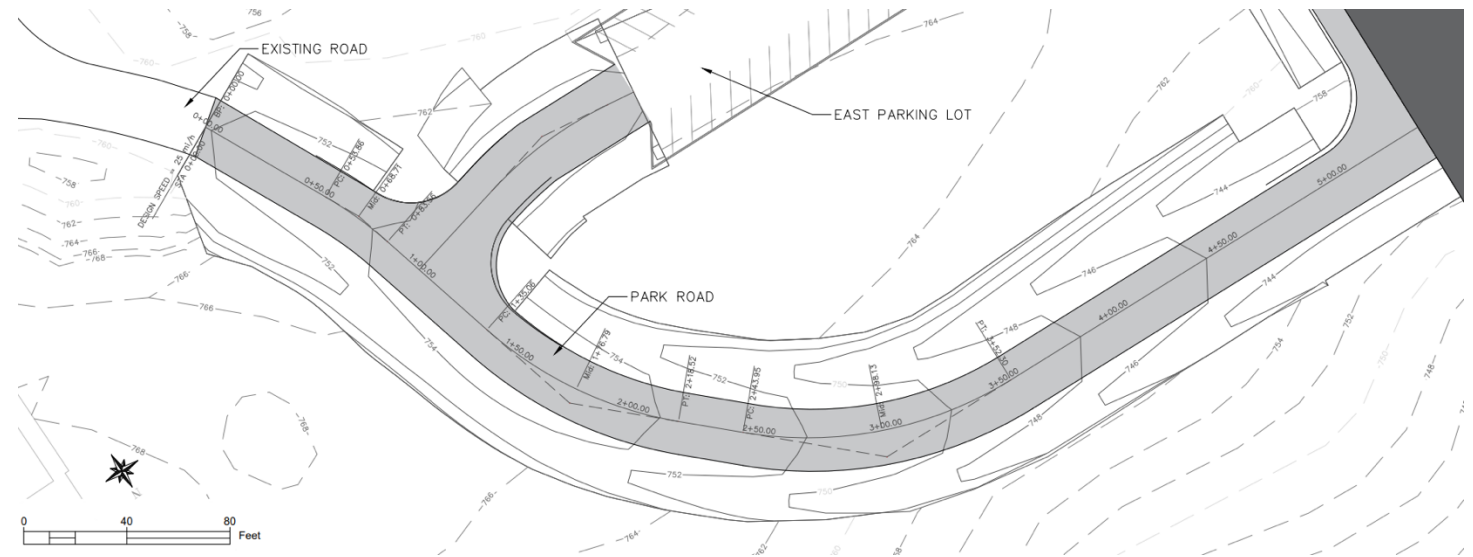
DENOTES GRAVEL
DENOTES 7" PCC PAVEMENT



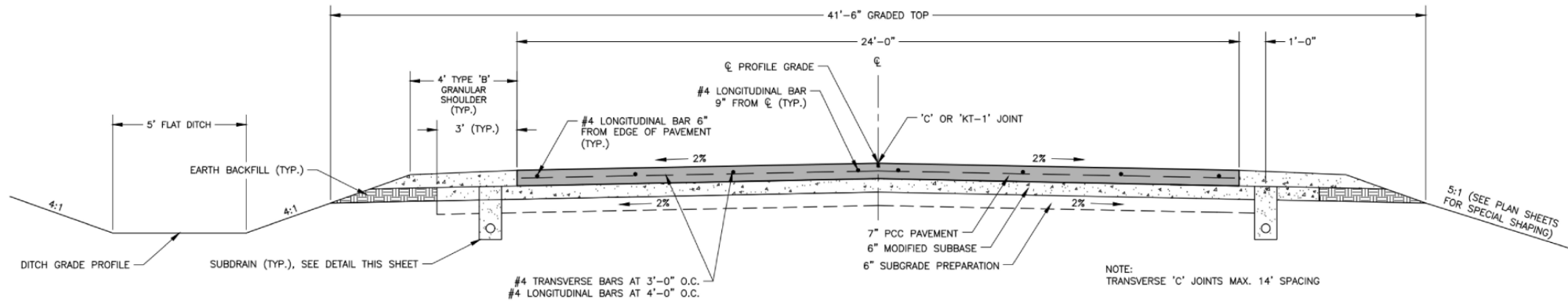
DENOTES PERMEABLE PAVER
DENOTES 7" PCC PAVEMENT
DENOTES SIDEWALK



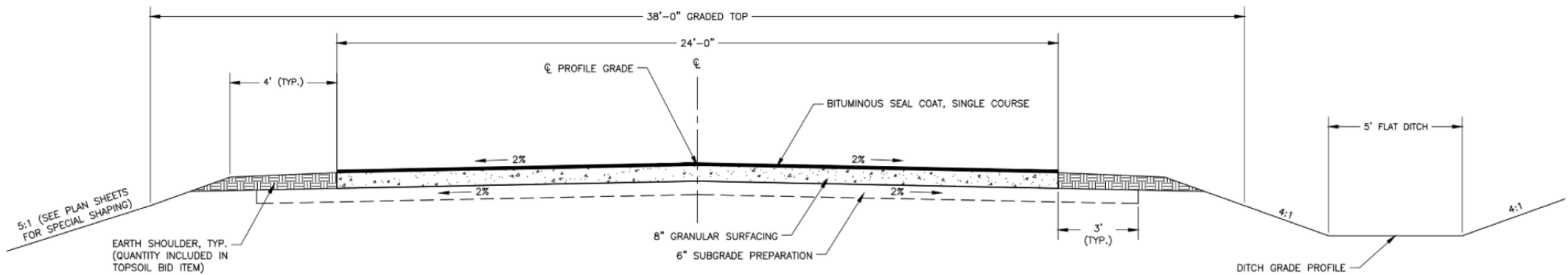
Road Design



Road Cross Sections



PARK ROAD (STA. 00+00 TO 13+98.47)
TYPICAL SECTION 24' PCC PAVEMENT



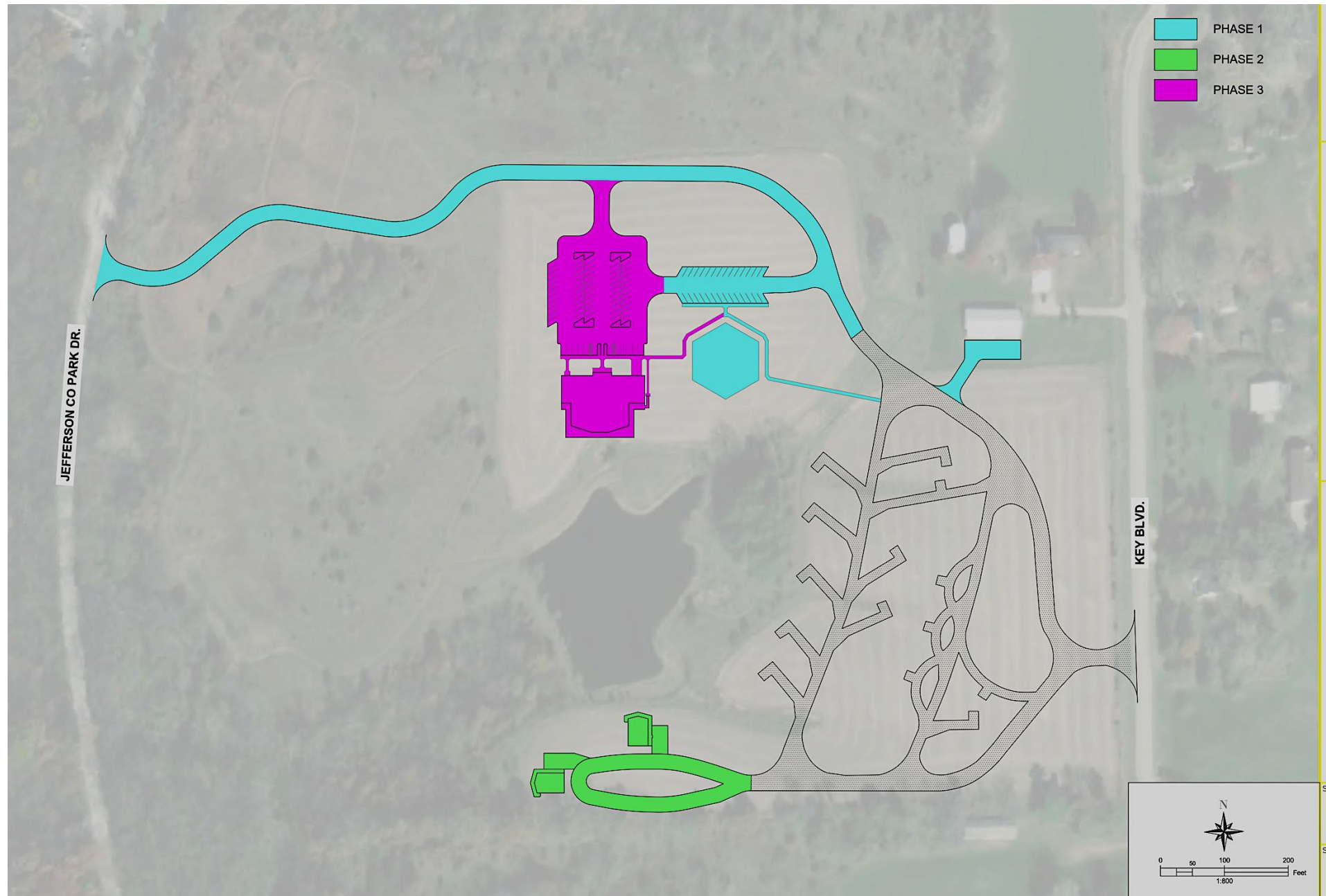
Phase 1

BLUE HIGHLIGHT

- Park Road
- East Lot
- Nature Playscape
- Maintenance Building Access

Time: 1 season

Cost: \$1.7 million



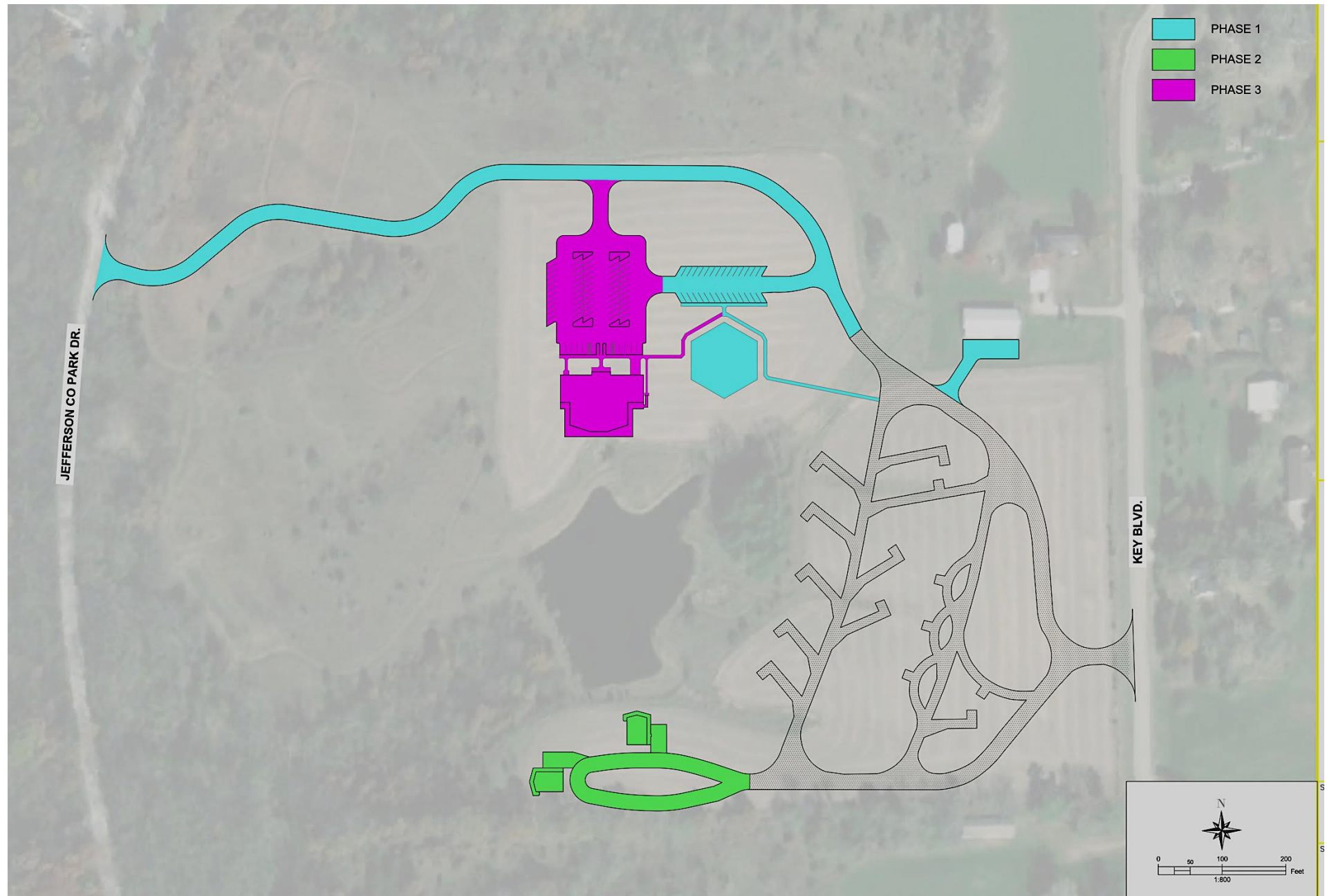
Phase 2

GREEN HIGHLIGHT

- Cabin Road
- Year-Round Cabins

Time: 1 season

Cost: \$1.9 million

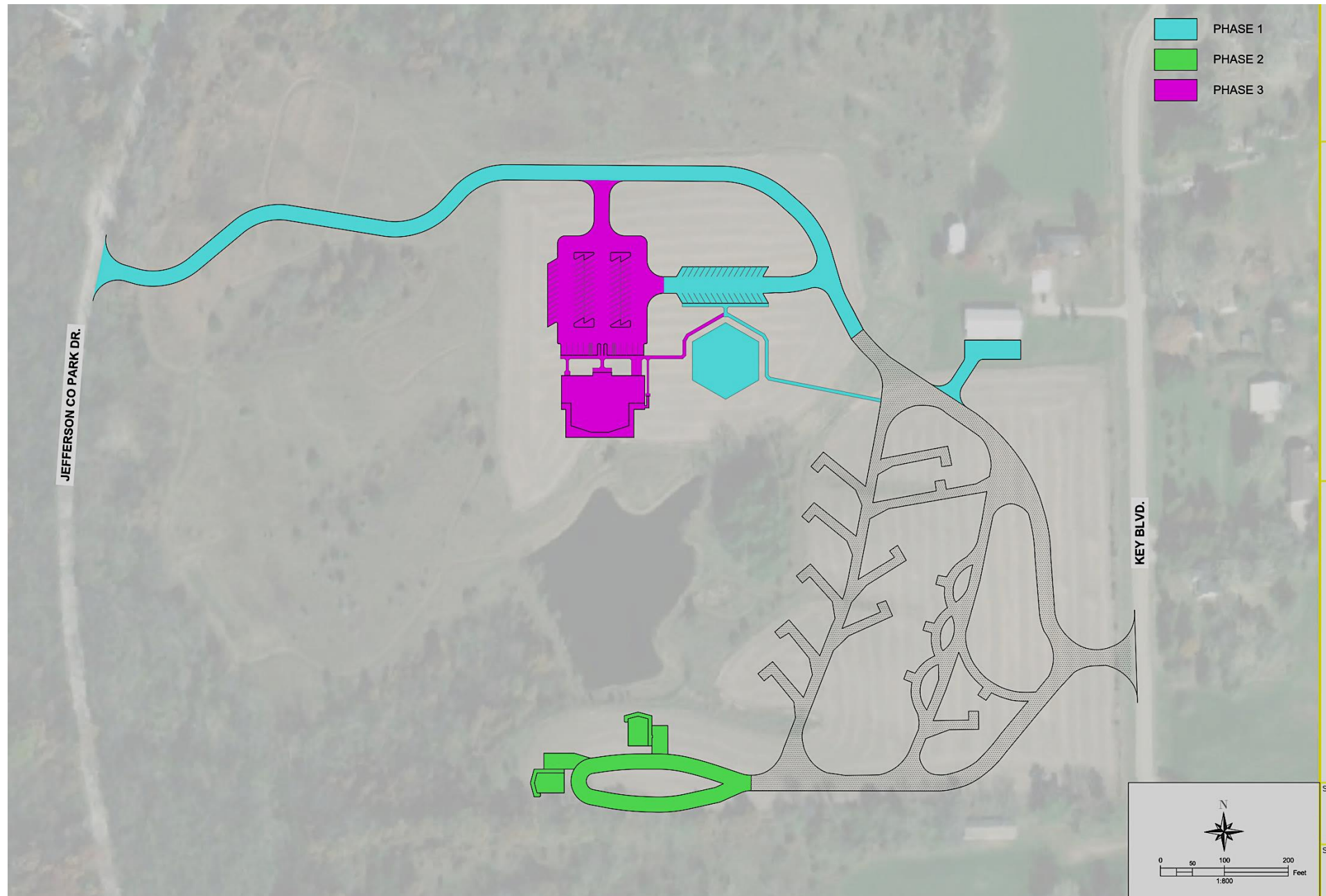


Phase 3

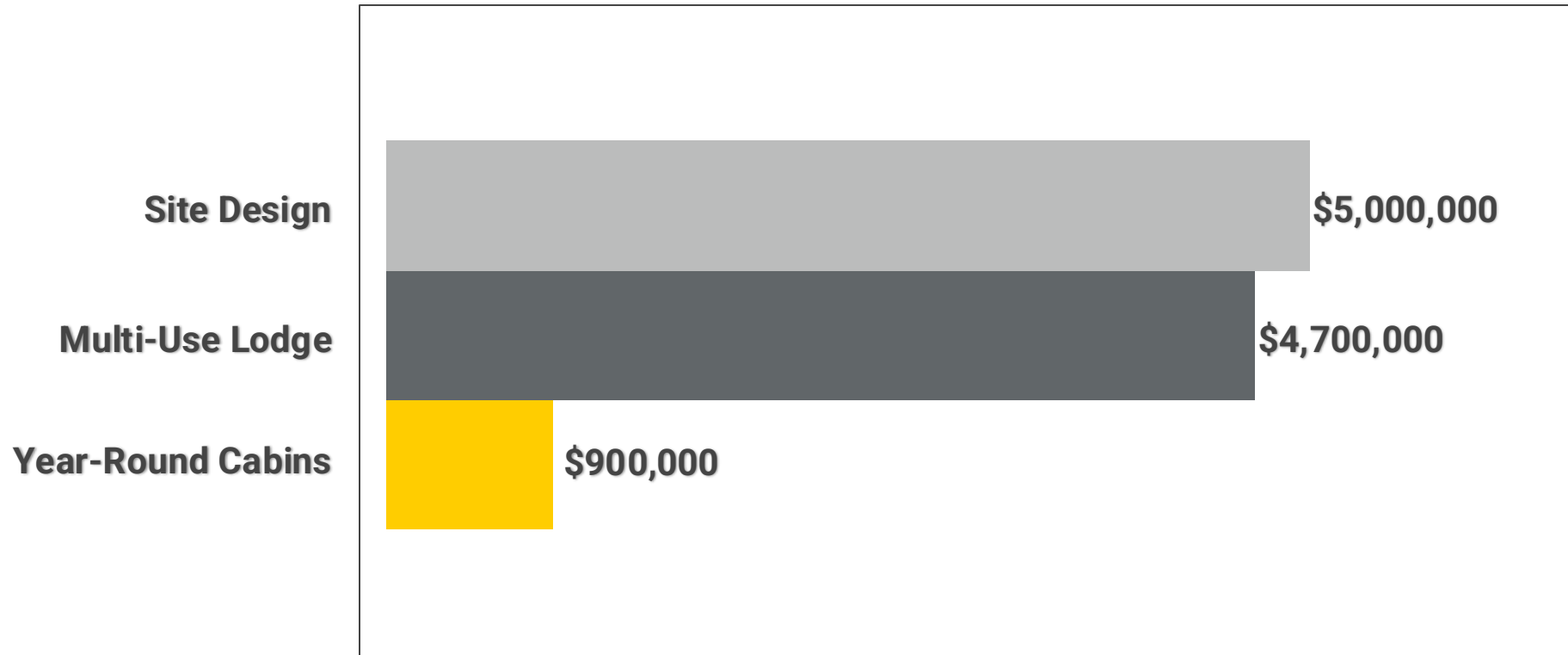
MAGENTA HIGHLIGHT

- West Lot
- Multi-Use Lodge

Time: 2 seasons
Cost: \$6.8 million



Total Cost Estimate



Construction Cost:
\$8.5 million

Contingency:
20-25%

Total Project Cost:
\$10.6 million

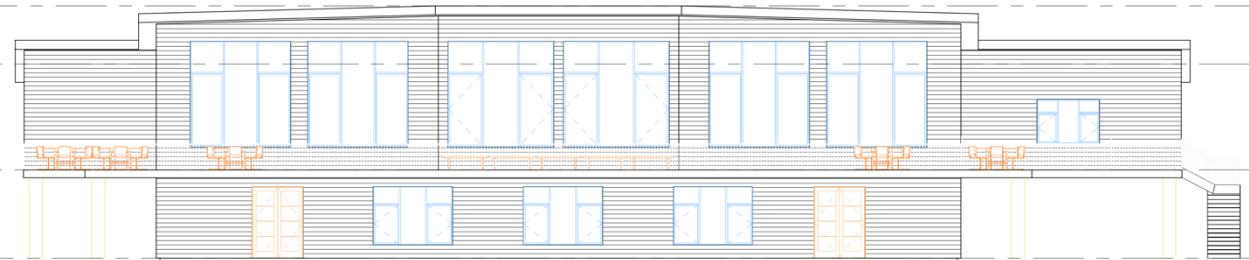
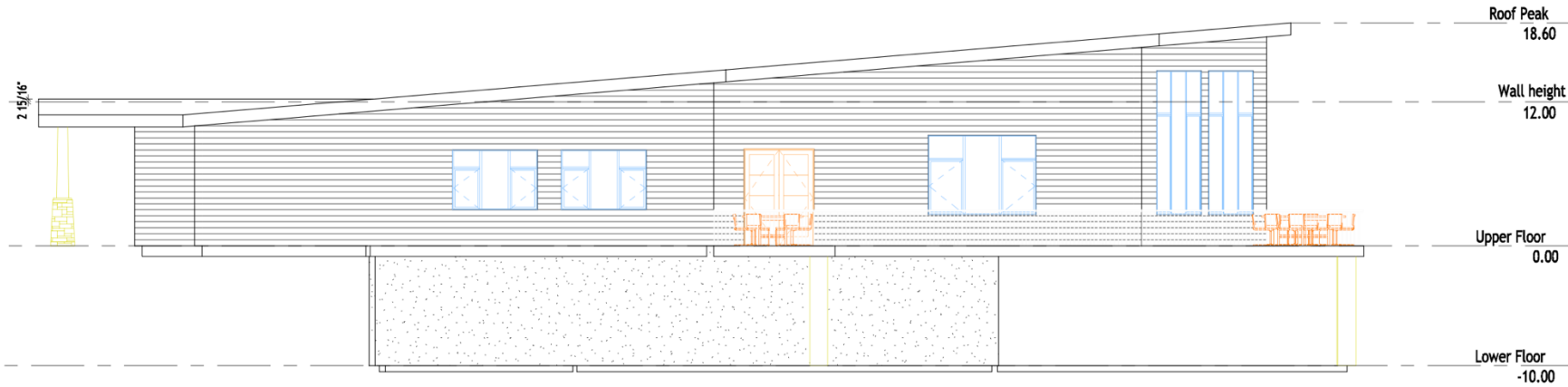
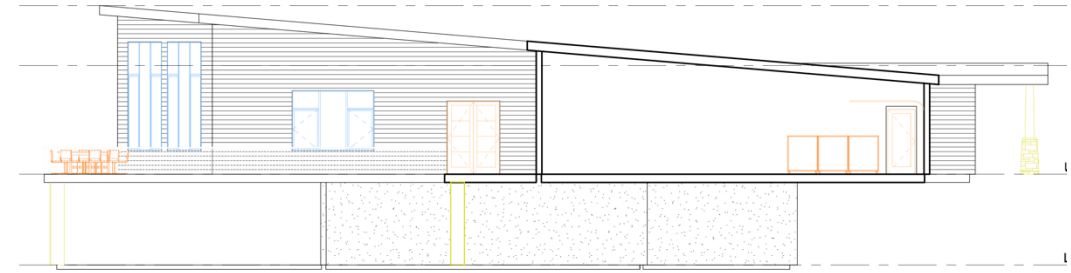
The logo for the University of Iowa, featuring the word "IOWA" in a bold, black, sans-serif font. The letters are set against a solid blue rectangular background.

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Engineering

**Jefferson County Conservation Area
Campground Redevelopment**

Thank you!

Multi-Use Lodge Elevations



Year-Round Cabin Elevations

