Practice Problem – Section C

PROBLEM STATEMENT:
Prepare a site design for the proposed camp facility.

CONTEXT:
- The pond is a focal point of the site offering unique views.
- The Geotechnical Engineer has provided a soil report.
- The Wildlife Biologist has determined that there is an important internal woodland bird nesting site located in the existing woods. Local regulations require a 200' [60m] setback for any construction from such a site. The biologist has identified three (3) such sites on the plan.
- Local codes prohibit blasting of bedrock.

REQUIRED:
- Prepare a plan that addresses the site opportunities and constraints.
- Show and label all project elements using the graphics provided. Maintain the size and shape provided for each project element. It is not permitted to subdivide project elements.
  - Cabins - locate six (6) cabins with a minimum 25' [7.5m] separation between cabins, 3' [0.9m] footing depth is required.
  - Parking - located to serve the office building.
  - Dining Hall - located to take advantage of site amenities, 3' [0.9m] footing depth is required.
  - Office - facilitates guest/camping registration and administrative operations, 3' [0.9m] footing depth is required.
  - Paved Gathering Area - serves function of camping and daily gathering.
  - Free Play Area - serves as general recreation space.
- Provide vehicular access to the parking area using the graphic provided.
- Minimize the environmental impact and costs of development.

### SOIL INFORMATION

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<tr>
<th>Soil Type A</th>
<th>Soil Type B</th>
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- **Organic Matter**
- **Hydric Soil**
- **Topsoil**
- **Sandy Loam**
- **Bedrock**
- **Topsoil**
- **Loam**
- **Bedrock**