**ANALYSIS**

**Circulation - Entrance-Exit**
- College Farm Road
- 3 other side roads, 2 are dirt
- More traffic from Route 1
- 2 entrances
- Ryder's Lane
- Route 1
- Geographic Transportation Crossroads

**Utilities for D.O.T**
- Road Salt Storage
- Diesel Gas Station
- Power Lines
  - The power lines will reasonable impossible to relocate
  - Smaller electrical utilities

**Suitable Construction Area**

**Ecological Areas**
- **Least Ecological**
  - Horse pastures and farm land
  - Power lines
  - Roads (noise)
- **Semi-Ecological**
  - Power lines
  - Open fields (unused except for power lines)
  - Trees and tall grasses
  - Can't see the roads as well
- **Most Ecological**
  - Power lines barely visible
  - Forest
  - Roads are unnoticeable
  - No noise

**Pervious/Impervious**
- **Pervious**
  - Open farm land
  - More than 90% of the 130 acres is pervious
- **Impervious**
  - D.O.T facility
  - Roads
  - Equine science facility

**Road Hierarchy**
- **Three Lane Roads**
- **Two Lane Roads**
- **Single Lane Roads**
- **Single Way Roads**
The road hierarchy in the area has potential to create serious traffic jams for future popular destinations.

**Analysis**

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**Legend**

- **ROADWAYS**
- **POND**
- **WETLAND**
- **OPEN SPACE**
- **FOREST**
- **URBAN**
- **COMMERCIAL**
- **RESIDENTIAL**

**Land Use**

The land is shared by the Cook Horticultural Farm, Equine Science Facility, and the DOT, as well as a residence. The land types vary from mostly agriculture, some wetland in the horse pastures, and also some forest by the banks of the pond. The site is roughly 130 acres, mostly owned by Rutgers.

**History**

The history of the Cook Horticultural Farm Area is historically uneventful up until 1978. 1978 is the year when Rutgers created the Equine Science Facility. It was and still remains as one of the only college horse facilities in NJ. The facility researches equine health and well-being which includes equine exercise, physiology, aging, development, and nutrition. The facility is capable of handling more than 60 animals at a time and can be available to the public. Currently seven million dollars are being raised to maintain and built on to the Equine Facility. Also in the site is the Cook Student Organic Farm which was started in 1994. It is a community supported farm, basically run by interns on three acres of land. Community supported means that people can pay $350 dollars and get chemical free vegetables all season.

**Utilities**

The utilities and number of public works are few. There is only one road for access to DOT maintenance area and the Cook Equine Research Facility. The site does however have high tension power lines which creates a very bold eye sore. The power lines can be seen from just about every area of the property.

**Transportation**

The site is easily accessible by three major highways of New Jersey. Nearest, Route 1 connects the site to Newark and Princeton, as well as many connecting routes across the state. A mile away from the site is Rt. 18. It runs south down the coast and intersects with Rt. 287, connecting western NJ and NYC. The NJ Turnpike, a major travel route in New Jersey is only 2 miles away. It also connects to another major road, the Garden State Parkway. These two roads connect New Jersey to New York, Pennsylvania and Delaware. Locally, Ryders Lane connects New Brunswick, East Brunswick and Milltown. Both Route 1 and ryders lane enclose our site and are the two main highways.

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The site is a vast open space of farmland that is used for both horticultural and pastures for animals. It is a very undeveloped site on the whole. Forests line the edge of the site on three sides (East, South, and West) and thicken by the lake. As viewed in the topography map, the edge of the property but the lake has a significant drop-off that leads down to the shore. Also notable by the topography are small ravines where the water drains when it rains. The forests follow the ravines onto the fields creating almost a natural barrier between crop areas.

The average slope of the site is 6%. The horse pastures and farmland is flat as well as the impervious surfaces. Slope becomes steep in the ravines and at the pond.

**Terrain**

**Buildings**

The buildings on the site are mostly barns and garages. There is one residential building and one building for the horses and animals. The DOT maintained area, has a garage and a dome like structure used for the storage of road salt.

**Cook Campus Horticultural Farm**

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