Oyate Omniciye | Oglala Lakota Plan
A new beginning of green infrastructure

October 28, 2014
Model Community Development

Create sustainable and interconnected communities that provide better housing, places for businesses to thrive, and a healthy and supportive environment for youth, elderly, and families. Use model communities as living laboratories to build skills, knowledge, and capacity for residents. Explore and refine new ways of living that build on traditional Lakota values to develop innovative, homegrown Native solutions to a variety of challenges.
Wastewater and Stormwater Systems

- Pipes with Manholes
- Underground extent of constructed wetland bioreactors
  1. Constructed Wetland Bioreactors
  2. Sanitary pipe system for generated wastewater
- Rain barrel
- Reinforced concrete pipe culverts
- Underground pipe connections
- Surface drainage swale
- 1. Surface bioswale at parking / roads
- 2. Surface rain garden / water collection
- 3. Residential collection - rain barrels at each home
- 4. Overflow into creek bed
Systems studied
Vision for a healthy community

**OUTDOOR MARKET**
This large outdoor space is located between the Empowerment Center and Business Incubator. The space provides residence with a large outdoor flexible space but also allows for a space for tourists to shop for goods produced by local artisans.

**EMPOWERMENT CENTER**
This facility houses cultural and community services.

**GYMNASIUM**
Indoor basketball court, doubles as a storm shelter. This facility is connected to the Empowerment Center / Fitness Center.

**YOUTH SHELTER**
Adjacent to many of the activities available at Thunder Valley, the facility provides youth guest rooms and counseling services.

**SOLAR PANEL GATEWAY**
This canopy produces energy in addition to creating a shaded outdoor space.

**SKATE PARK**

**BASKETBALL COURT**

**ROPE COURSE**

**TRADITIONAL POW WOW GROUNDS ARBOR**
This conceptual illustration shows the heart of Thunder Valley. The Empowerment Center and surrounding market, powwow grounds, and studio space create a cultural and community center.

**POW WOW GROUNDS**
Located along the central green space.

**ARTIST STUDIOS AND LOFTS**
Lower floor opens out onto the central green and provides flexible space for artists and other activities. Second level has apartments.