



CASE

CASE WESTERN RESERVE UNIVERSITY

The Debra Ann November Research Greenhouse Construction Report

Ana B. Locci, Director

Greenhouse Problems



- 47 year old “glass” greenhouse
- Foundation problems
- Poor energy efficiency glass
- Three large working rooms with a common entrance.

New Greenhouse

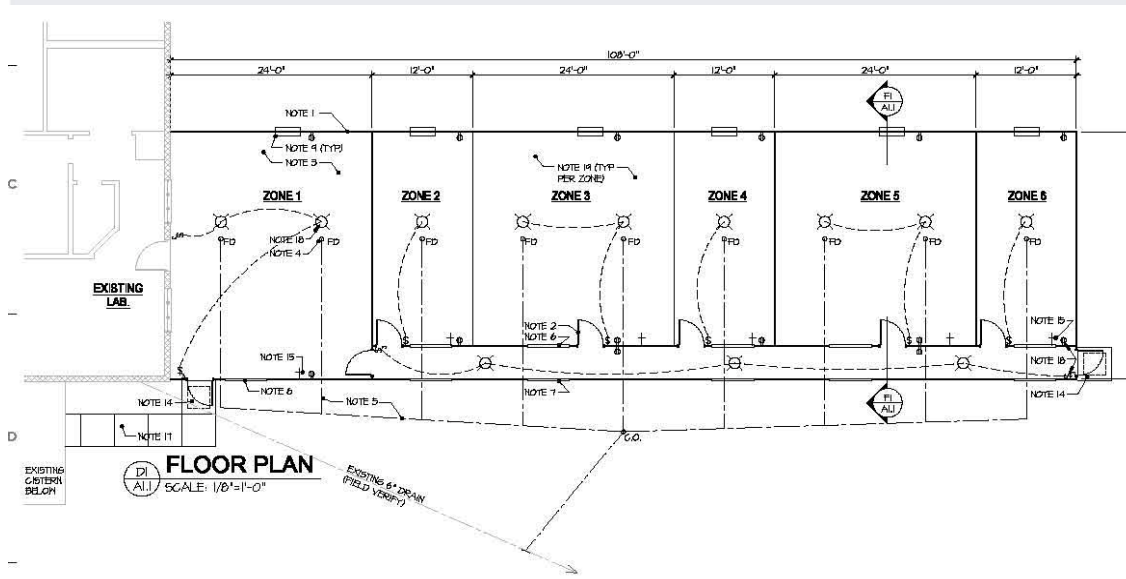
- Mr. and Mrs. Mort & Iris November have graciously donated a gift for a new Greenhouse at the Farm.
- New building will be named The "Debra Ann November Research Greenhouse".

Old Greenhouse demolition



November 14 -18, 2005

New Greenhouse floor plan



- This new facility will have six separate rooms for research and teaching.
- Each room will have its own access, making sure there will be no cross-contamination.
- A catwalk will provide access to each house.

New Greenhouse as a “Green facility”

- Wall and roof material: 8 mm Poly with high “R” value
- Insulated foundation
- Individual temperature control room
- Recycling of foundation material as construction driveway
- Individual rooms floor drainage
- Rain water collection for watering

New Greenhouse

Foundation with
insulating material



December 5 -9, 2005



New Greenhouse



December 26 -30, 2005

Slab pouring



Greenhouse construction



Feb 9 -10, 2006

Greenhouse construction



Feb 15, 2006



Greenhouse construction



Feb 16, 2006



Greenhouse construction



Hallway and rooms separations

Feb 20-21, 2006



Greenhouse construction



Greenhouse poly walls installation

Feb 27-28, 2006



Greenhouse construction



Outdoor poly walls
installation is finished

March 10, 2006

Installation of six fans



Greenhouse construction



8 mm double poly walls coated for condensation resistance and UV protection

March 10, 2006

Poly roof was finished



Greenhouse construction

March 16, 2006



Hallway and outdoor louvers