

# HANCOCK COUNTY HIGH SCHOOL

Kentucky  
Community Service Project  
2010-2011



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## **Purpose of Project**

### **Statement of Project Goals**

Goal: Expand and enhance community service through GPS Projects.

Objective 1: To develop working relationships with administration / teachers / students in Hancock County Schools.

Activity 1: GPS Presentation / outdoor activity with Hancock County High School Freshmen Science classes.

Activity 2: Plot points for Hancock County High School Cross Country course and create detailed map for Cross Country Invitational.

Activity 3: Plot points for Hancock County Board of Education bus stops and create detailed map for bus routes.

Objective 2: To develop working relationships with business and government agencies in Hancock County.

Activity 1: Plot points for Lewisport Fire Hydrants and create detailed map for Lewisport Fire Department.

Activity 2: Create a detailed map of St. Columba Catholic Church for the Senior Project presentation day.

Activity 3: Create a detailed map of Our Lady of Lourdes Church for the Eagle Scouts.

## **Service to the community and its citizens**

Some of the students from HCHS have worked together to create this community service project. Hancock County High School provides many opportunities to be active in the community. In fact, the students are rewarded for their efforts to help the community. We have several programs at work. You will see the evidence of service to our community through this project. We have various maps including Hancock County High School Cross Country course, Hancock County school bus routes, Lewisport fire hydrants, Nashville Parthenon Museum, St. Columba Catholic Church and Our Lady of Lourdes Church.

## **Planning and Development of Project**

Planning and development of the Community Service GPS Project begins with making contact with school / business / government representatives.

The GPS presentation for freshmen science students required working with Mrs. Wallace the science teacher. The Cross Country course map began with Coach Meserve asking the GPS class if they could help with measuring the distance of the course. The School bus maps began with the Director of Transportation Mr. Estes asking if we could create maps of the bus routes.

The Lewisport Fire Department sent a representative, Drew Bittel, to provide transportation for our students in collecting the GPS points for fire hydrants in Lewisport. A parent from the Eagle Scouts asked us to make the map of Our Lady of Lourdes Church in Daviess County. The AP Art Class asked us to go along with them to Nashville to GPS at the Parthenon Museum. We were asked by our Principal, Mr. Lasley, to create a map displaying the route to get to St. Columba Catholic Church for the Senior Project presentations.

**Example of Communication concerning Eagle Scout project at Our Lady of Lourdes Church**

**From:** Lasley, Kevin  
**Sent:** Monday, November 08, 2010 10:54 AM  
**To:** Goodall, Brad  
**Subject:** RE: Our Lady of Lourdes Map

FBLA Students,

Thank you for your efforts in getting the map completed for the Our Lady of Lourdes Church. This map will be used with an Eagle Scout Presentation. The Eagle Scout project will be to plant various trees around the church. Your map will help us visually show the members of the church where we intend to plant the trees.

Thanks again,

*Kevin Lasley*

Eagle Scouts

## Implementation of Project

Every year we teach a freshmen class the basics of GPS; how it works, what it does, and what you can use it for. Usually, we break it down into two different groups. One group stays inside to teach the kids about GPS by presenting a PowerPoint. The presenters will answer any questions and get the students ready for the collections. The second group goes outside and will be the ones helping the students with the collection; getting the GPS devices ready and showing the students how to use them. We try to do this at least twice a year; with each change of students that way our knowledge spreads as far as possible.

The process for collecting the fire hydrant points for Lewisport was a great experience for learning how GPS is used in the “Real World”. Our instructor does his best to get us all the chances possible to get real world challenges instead of just doing assignments out of a textbook. For the collection we used one of the *Trimble XM* devices and one of the *Garmin GPSMAP 60*. We had Drew Bittel, volunteer for the Lewisport Fire Department, to drive a few of collectors around Lewisport to collect all of the GPS points manually. Going on foot posed several problems. For example, we received bad signal from close trees and houses, as well being chased by several dogs.

For the cross-country maps, we had a group of people go outside and walk each of the courses. There were various terrains and a lot of walking, but it helped out the cross-country team as well as the fans trying keep up with the runners and knowing how to get around the course.

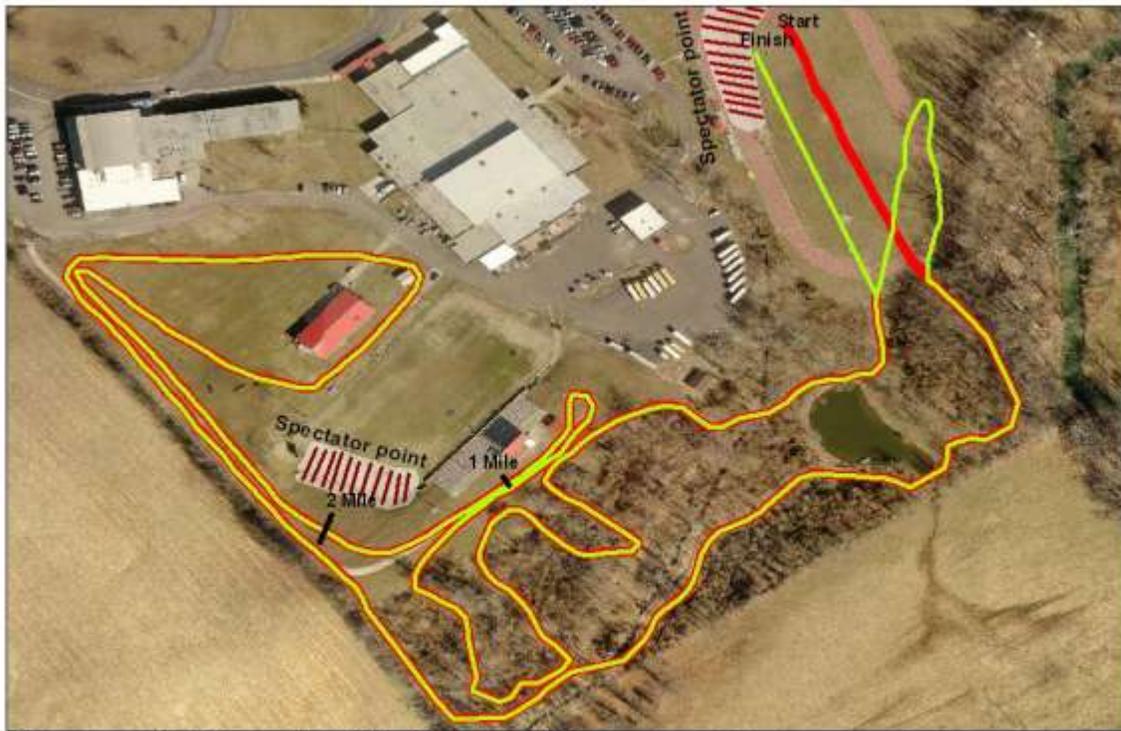
For the bus routes, we used a much different way of collection. We used the website <http://www.getlatlon.com/>. We would type in the address provided by Mr. Estes and compiled each bus stop point for the bus route into a single notepad sheet. We then had to convert all of these points into a certain format. For this conversion we used the website <http://www.gpsvisualizer.com/>. At this website, you have several options of what you can do with your points file. You can make a Google map, JPEG images, PNG graphics, and plain text tables. In our case, we needed plain text tables. We used those tables to put points on the map for the bus routes. This was a long process that we had to go through for each map. With a total of eighteen maps and a work time of about two hours per map, we invested about thirty-six hours to complete the bus route project.

Students at Hancock County are enrolled in the GIS (Geographic Information Systems) class and have been working to get “real world” experience in mapmaking by doing projects for community members and school official when asked to. We were asked to make a map of the St. Columba Catholic Church for student who needed directions on how to get to the location on Senior Project presentation day. This required us to use existing maps of Lewisport and use aerial photographs given to us to create a map. Using the editor toolbar, we were able to select specific roads and highlight them to show the easiest route to get to the church.

Members of the GIS class were asked to tag along with the AP Art students to get an opportunity to map the Parthenon Museum in Nashville, Tennessee. We took our *Garmin GPSMap 60* along in order to collect points of each column on the Parthenon.

We then used the same process as used on the bus route maps, stated above, for converting the points and create the map.

## Impact and benefits to the community



### Hancock County 5k Cross Country Course

this is a 5k or 5000 meter cross country course follow the dark thick line for the first lap the second lap will be the bright thin line

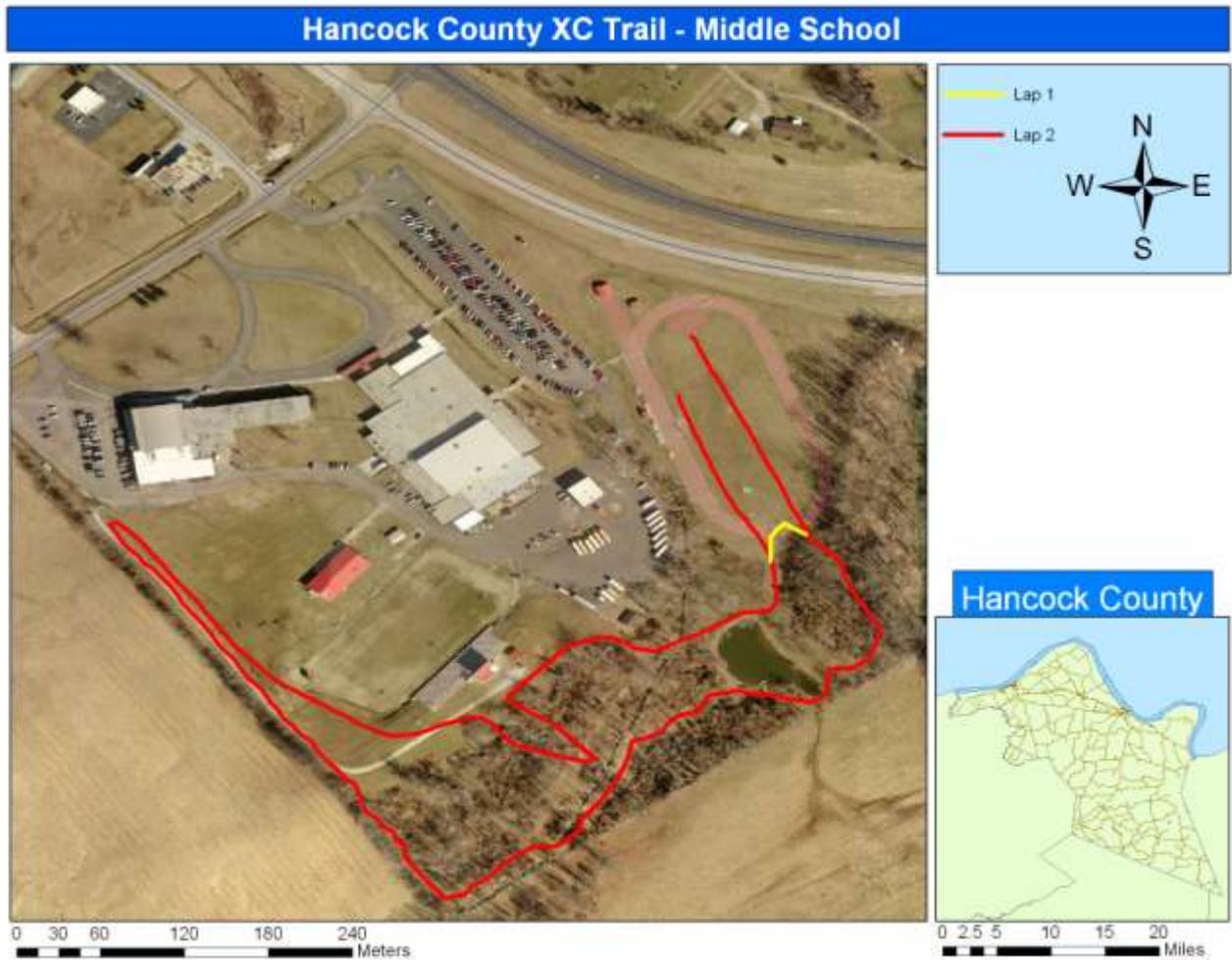
0 15 30 60 90 120 Meters



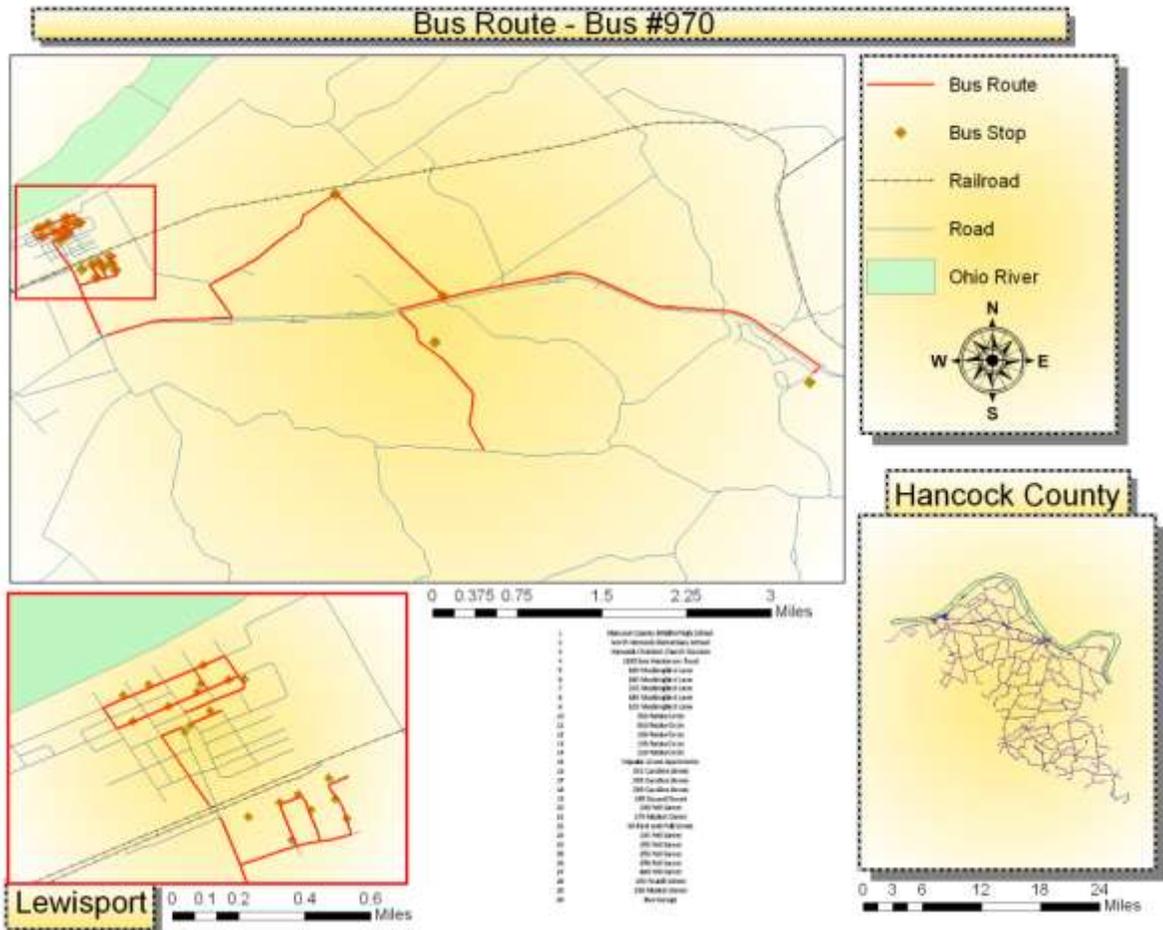
#### Legend

- Mile markers
- Lap 1
- Lap 2

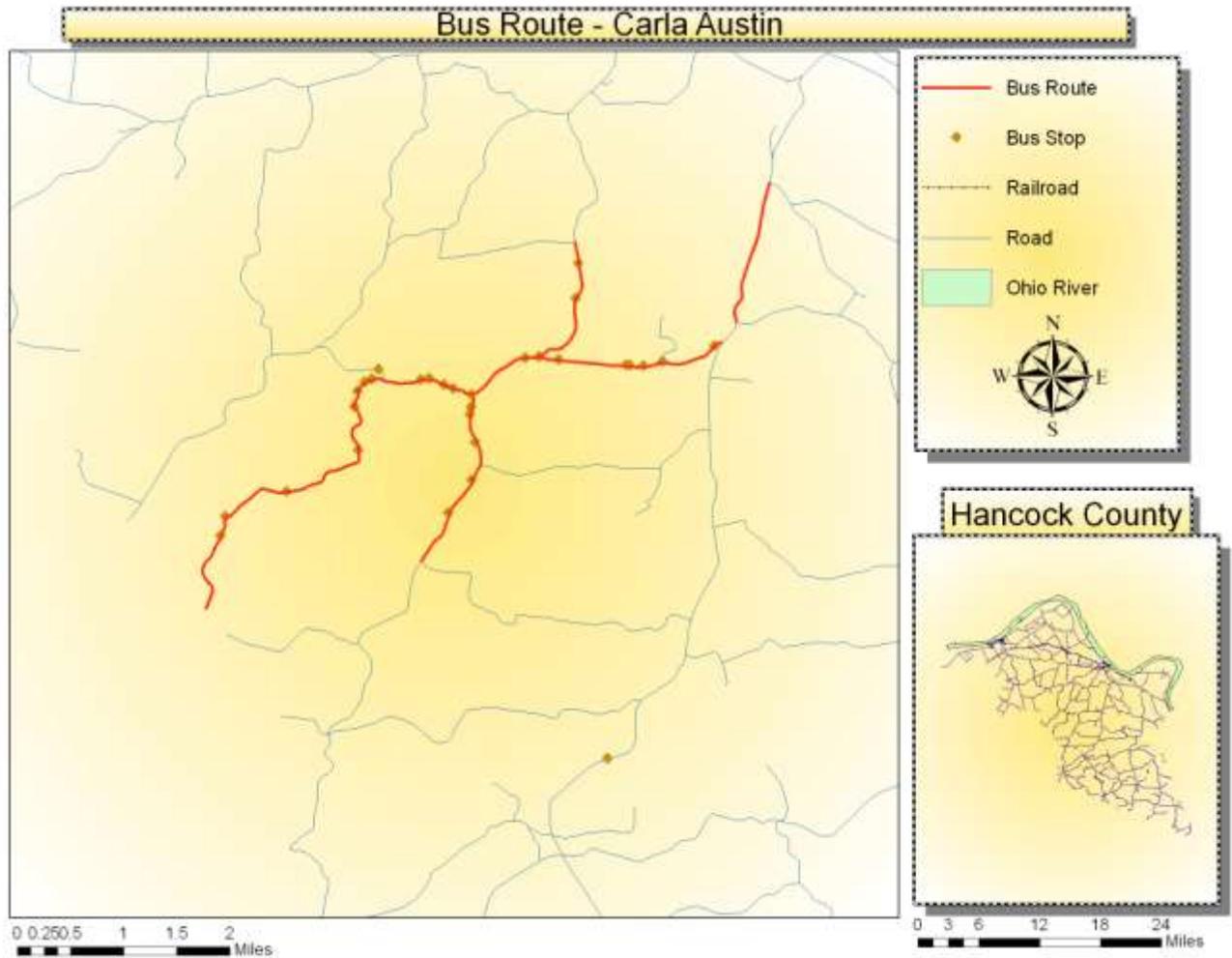
The high school cross-country coach, Wes Meserve, asked us to make a map for the Hancock County Invitational Cross Country Meet. This map was given to the coaches of each team that participated to show the overall layout of the course. This gave the participants of the race a general outlook of the race. This map was also useful to spectators of the race because it points out the ideal points for watching the event.



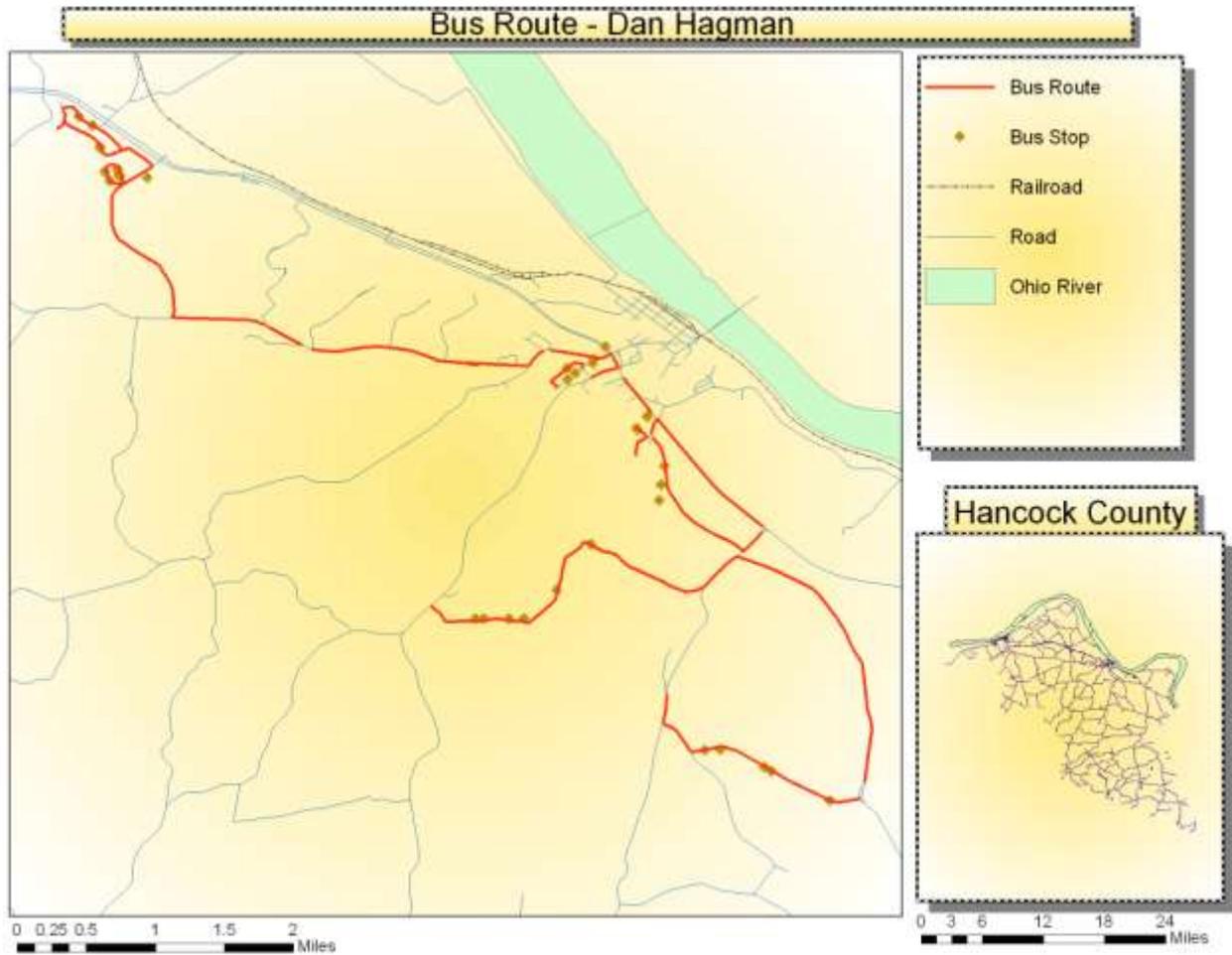
The middle school cross-country coach asked us to make a map for the Hancock County Invitational Cross Country Meet. This map was given to the coaches of each team that participated to show the overall layout of the course. This gave the participants of the race a general outlook of the race.



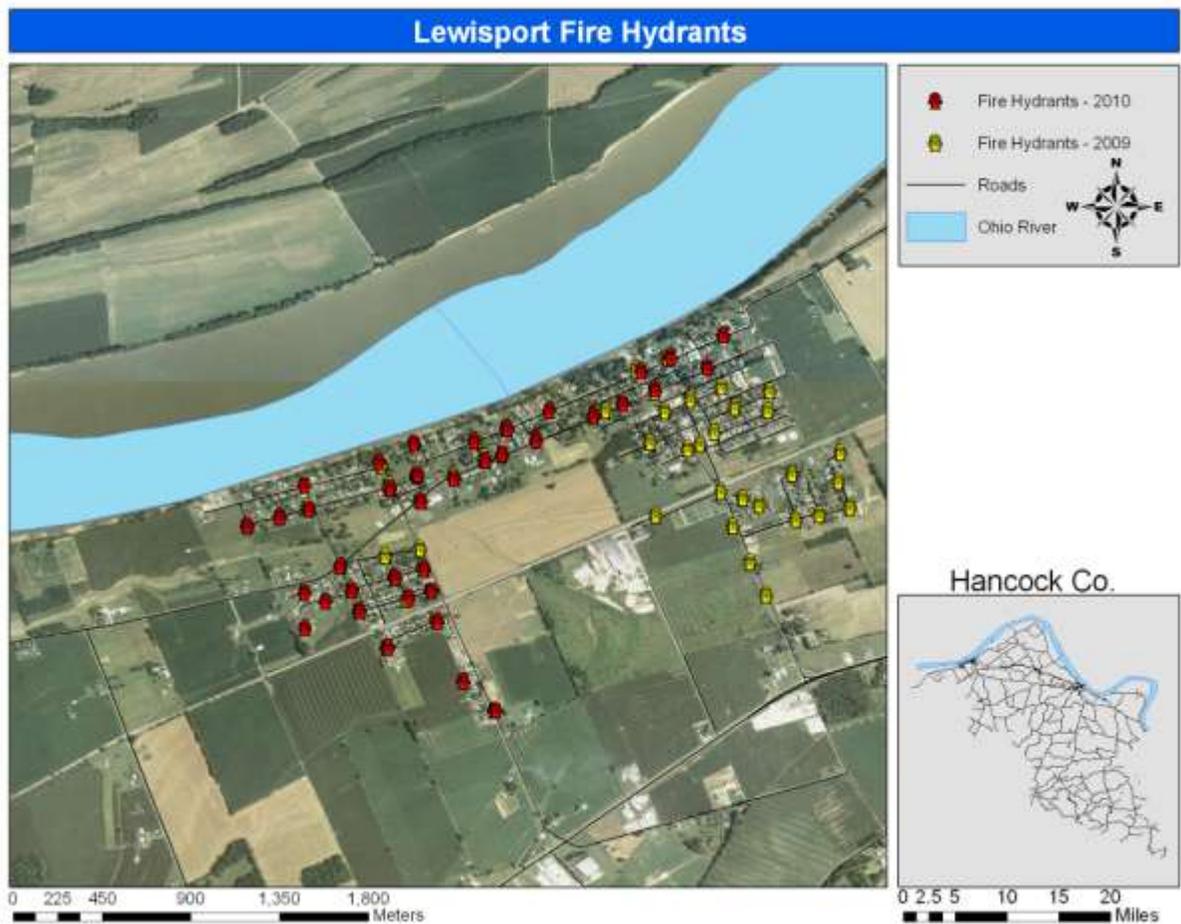
This map was created for Bus Route #970. It contains points for each of the bus stops along with a highlighted route the bus driver takes. It also includes an inset of the city of Lewisport for a zoomed in view of the bus stops. There is also a list of each bus stop with the address that corresponds to each point on the map.



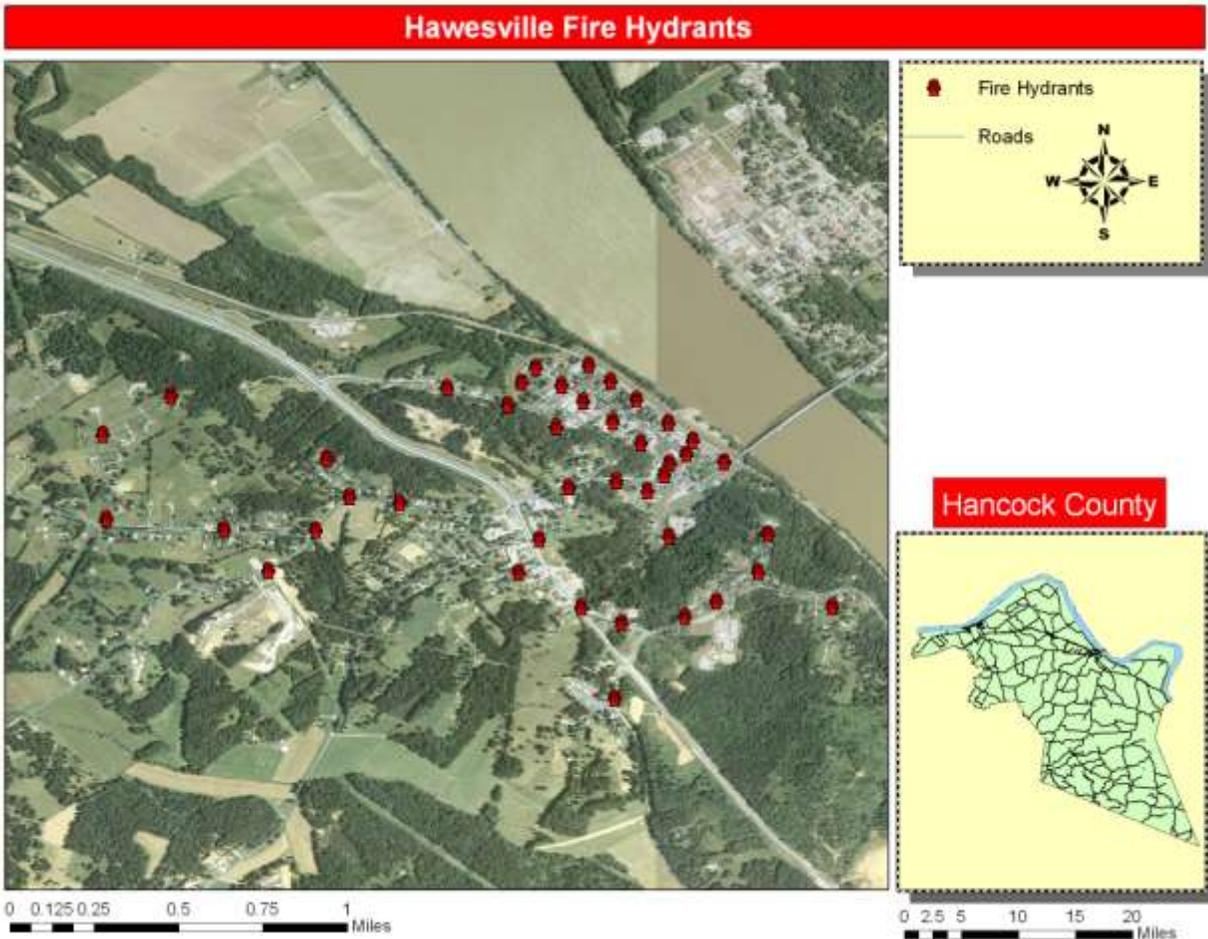
This map was created for the bus driver Carla Austin. It contains points for each of her bus routes as well as a highlighted route she takes to each bus stop. It also includes a map of the entire county.



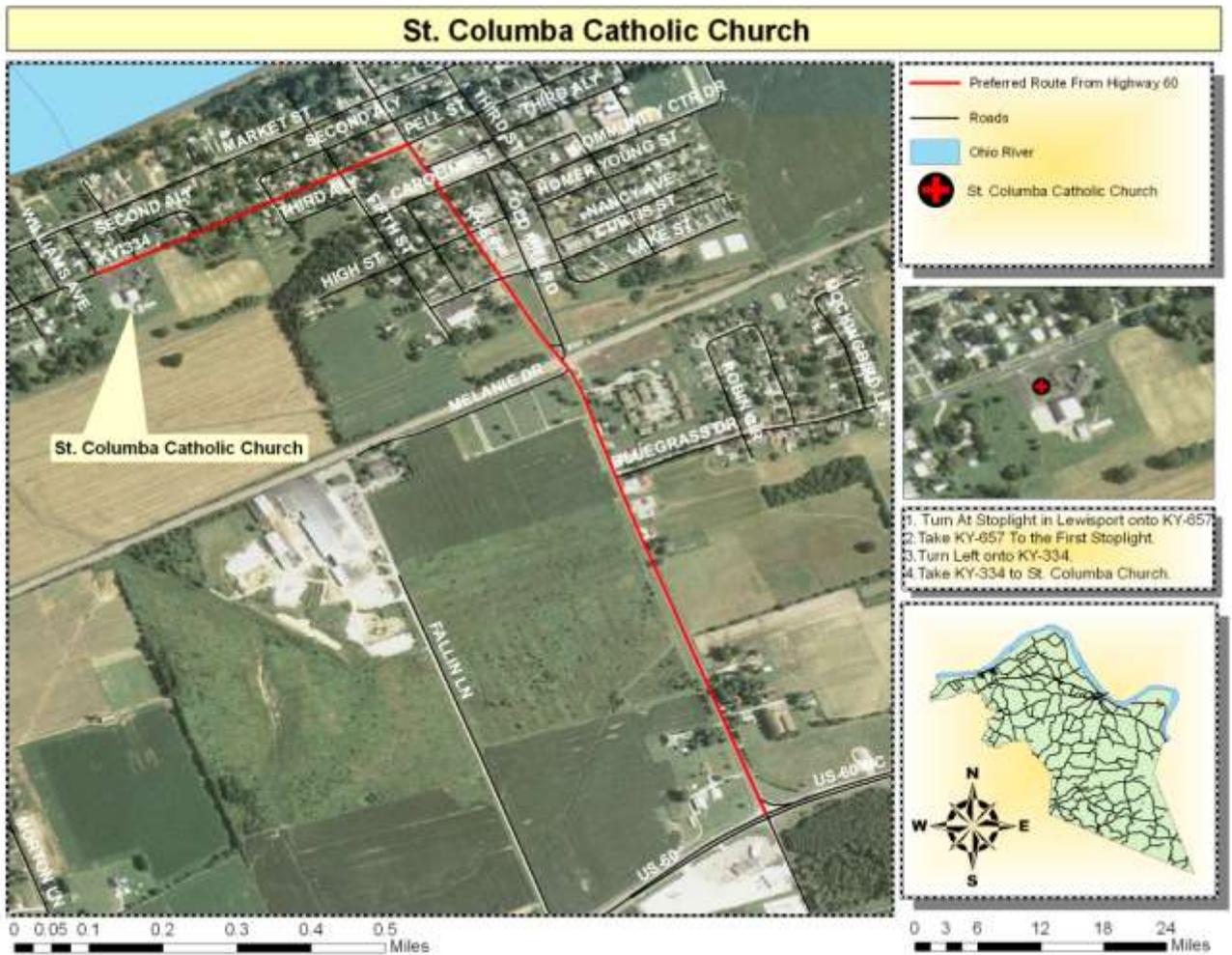
This map was created for the bus driver Mr. Dan Hagman. It contains points for his each of the bus stops along his route, as well as a highlighted route he takes to each stop. It also includes a map of the entire county.



This map shows the locations for each of the fire hydrants in the city of Lewisport. This map has both sets of points collected for the years 2009 and 2010 to be as accurate as possible. This map was given to the fire department to be posted in the fire house and a copy is put in every fire truck so the firefighters can have a copy on hand at all times.



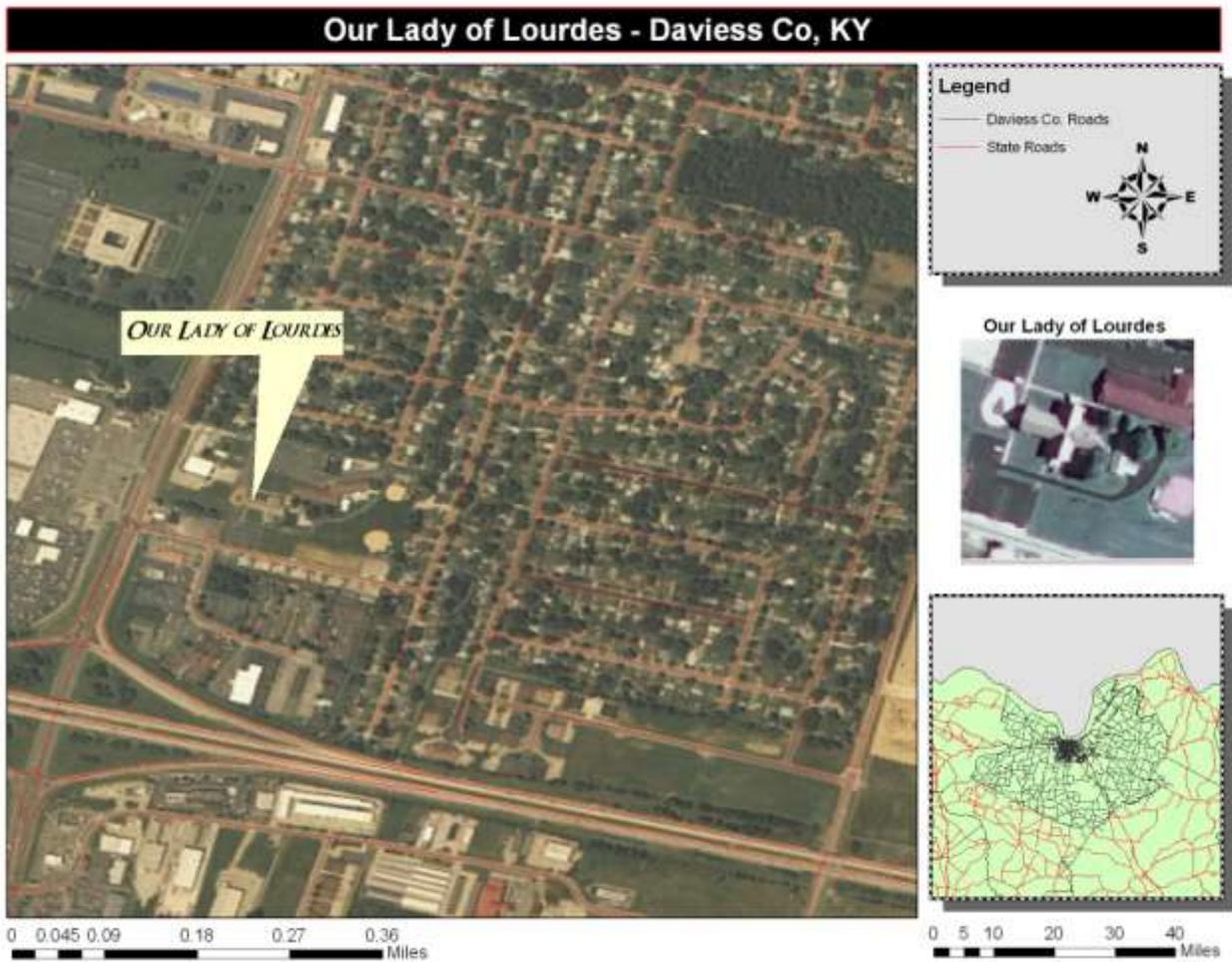
This map shows the locations for each of the fire hydrants in the city of Hawesville. This map is useful for the Hawesville Volunteer Fire Department for knowing the locations of the fire hydrants near where they are fighting a fire.



This is a map we made for the students at Hancock County High School who would be presenting their Senior Projects at St. Columba Catholic Church in Lewisport. The map includes a layout of Lewisport with a highlighted route to take. There is also an aerial photograph of the church and step-by-step written directions on how to get there.



This is a map of the Nashville Parthenon Museum in Centennial Park. A few members of the GIS Class accompanied the AP Art Class on this trip in order to map the points of each column on the Parthenon’s exterior. The map also includes a map of the state of Tennessee with Davidson County highlighted, along with an inset of Davidson County showing the major interstate highways.



This map was made for Our Lady of Lourdes church and the Eagle Scouts in Daviess County. The Eagle Scouts were planting trees at the church for a project so they asked us to make a map showing the location of the church. The map includes a layout of the area around the church with a callout text pointing to the church, along with a zoomed in aerial photo of the church. There is also a map of the entire county with both county and state roads.

## Evidence of Publicity

