

# ORMAP Grant Application

Section I. County and Grant Information			
A. County: Polk		B. Funding Cycle: Spring 09	
C. Project will help meet ORMAP Goal(s): 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input checked="" type="checkbox"/>		D. Fund Request: \$70,000	
Section II. Summary of Project			Tech Group Assessment
A. Brief Description of the Request and if the project will meet the ORMAP Data Exchange Standards.			<input type="checkbox"/> Yes <input type="checkbox"/> No
Polk County is seeking \$70,000 to create approximately 1,500 taxlots that meet the ORMAP Technical Specifications in North Independence/Marion County Line and the Benton County Line. Polk County will provide \$13,700 of matching funds and Benton County will provide \$4,000 of matching funds.			
Scope and Deliverables			
<i>Check</i>	<i>Deliverables</i>	<i>Brief Description of the deliverables</i>	
<input checked="" type="checkbox"/>	Taxlot Conversion	1500 taxlots	
<input type="checkbox"/>	Tax Map Conversion		
<input checked="" type="checkbox"/>	Control Points	210	
<input type="checkbox"/>	Scanning		
<input type="checkbox"/>	Reports		
<input type="checkbox"/>	Development		
<input type="checkbox"/>	Other Assistance		
<input type="checkbox"/>	Other Deliverable		
<input type="checkbox"/>	Hardware/Software		
B. Timeline (funding not to exceed 1 year from contract date)			
June 2009-June 2010			
C. Costs of Total Project (add lines as necessary)			
Deliverable	Number of Items	Cost per Item	Total Cost
Control Points	110	\$70/point	\$7,700
Taxlots	1,100	\$30/taxlot	\$33,000
Government Corners & Primary Control Points	20	\$200/taxlot	\$4,000
Rural Polk Government Control Points	20	\$200/point	\$4,000
Rural Polk Control Points	50	\$200/point	\$10,000
Rural Benton Control Points	50	\$200/point	\$10,000
Rural Benton Government Control Points	20	\$200/point	\$4,000
D. Partnerships and Contributions:			
Partner	Contribution		
Polk County (direct match)	\$5,700		
Polk County & Benton County	GPS Equipment		
Polk County/Dallas/Monmouth/Independence	2008 Aerial Photos		

Polk County (40 Government Corners - \$200/pt)	\$ 8,000
Benton County (20 Government Corners - \$200/pt)	\$ 4,000
<b>E. Assessor's Signature:</b>	
<b>F. Fiscal Contact – Name:</b>	Dean Anderson
<b>Fiscal Phone Number:</b>	503-623-0713
<b>G. Project Contact – Name &amp; Title:</b>	Dean Anderson, Polk County IT Director
<b>E-mail address:</b>	<a href="mailto:Anderson.dean@co.polk.or.us">Anderson.dean@co.polk.or.us</a>
<b>Phone Number:</b>	503-623-0704
<b>Mailing Address:</b>	Polk County Courthouse 850 N Main St. Dallas Or 97338

*The information provided in Section III should not exceed more than five pages*

### **Section III. Detail Project Information –Answer all questions**

#### **A. Overview**

**1. Describe what the project is trying to accomplish.**

This project will be used to convert 1100 taxlots in N Independence and obtain the control needed to support the conversion. As part of this project the Marion County line will be reviewed in the North Independence area and research will be conducted to see if an agreement between Polk County and Marion County can be reached regarding the county border. In addition this project will also be used to identify the Benton County line, needed control, and remap 400+ border taxlots.

**2. Does this project relate to any previous ORMAP-funded projects? If yes, please explain.**

This project is a continuation of the remapping of the cities in Polk County and urban growth boundaries and county lines.

**3. What is the status/outcome of the previous ORMAP-funded projects?**

- #1288 The pilot study is approximately 100% complete
- #1351 Due to reductions in staff we withdrew the NW Dallas remapping project.
- #1555 The NE Dallas remapping project is 100% complete.
- #1810 The SE Dallas remapping project is 100% complete.
- #1816 The Lincoln County Boundary remapping project is 100% complete.
- NW Dallas Project – 80% complete

#### **B. Project Design – Current Proposal**

**1. Identify the ORMAP and the regional/county goal(s) that this project addresses.**

One of the primary goals of Polk County and our region is to develop consistent maps that meet state accuracy standards. This project will assist the county in reaching ORMAP Technical Specifications.

**2. Describe in detail your technical approach to the project.**

- a. Review existing documents: Review
- b. COGO all recent plats and identify potential control points: Existing Plats will be automated using Coordinate Geometry software or restored from archive (1994-2006). Potential control points will be identified for plats. Plats will be placed by Survey/GIS/Cartographer.

- c. Field locate control points: The Survey/GIS/Cartographer will locate corners in the field. Corners will be flagged and maps prepared.
- d. Establish coordinates for control points: Under direction of the County Surveyor, the Survey/GIS/Cartographer will locate the corners to sub-foot accuracy using real-time GPS. The county recently completed construction of a GPS CORS station for Dallas and maintains survey grade GPS equipment. Providing this equipment to this project is an additional cost match for this project.
- e. Build balanced taxlot map for all controlled taxlot lines: A balanced layer of plats (taxlots) was created.
  - Rotate, scale, and hold all plats that had 2+ ties.
  - Rotate and scale all closed modern plats that easily fit to existing plats.
  - Review control and accept, reject, or obtain more points (Steps B&C).
  - Rotate & Fit older plats.
  - Adjust borders for plats that do not have control points.
  - Snap/delete/modify shared borders between plats that were accurately placed.
- f. Add remaining taxlot lines: Transfer taxlot lines from the existing taxmap following measurements as identified on the taxlot map.
- g. Annotate map: Transfer support lines and annotation from existing map to the newly created map.
- h. Integrate: Fit the new study area into the existing map.

**3. Describe the project deliverables. (DOR will bill against these deliverables)**

1,500 taxlots that meet the current ORMAP Technical Specifications and 210 control points.

**4. Will this proposal fund staff that is doing work other than work funded by ORMAP? If so, describe how the time and cost will be tracked for the different projects.**

No. This proposal will fund a new position at Polk County to create taxlot maps that meet the current technical specifications.

**5. Who will be doing the work (county staff, contractor, DOR staff, etc.)? Please define their role(s).**

New cartography/GIS/Survey position located in the IS Office under supervision of GIS and Assessor Cartography staff. In addition, survey staff from both Benton and Polk Counties will be doing much of the control work for this project.

**6. Describe the maintenance plan for this product.**

Polk County has a complete maintenance system for control maps. Polk County is also partnering with several other counties to migrate to a new generation of map maintenance project from ESRI.

**7. Will this comply with ORMAP Exchange Data Standards found on the ORMAP web site?**

Yes

**8. Describe where this project fits within the county's overall mapping/GIS work plan.**

This project builds on the recently completed pilot remapping pilot project. The pilot project determined that taxlots could be remapped for approximate \$30/taxlots (including most of the control work).

**9. Provide a project timeline with milestones and phase-completion dates**

COGO Entry – July-August  
 Control Work – August – January  
 Taxlot Conversion – January/February  
 Annotation – February  
 Additional Map Features – February-June

**10. Show how this project promotes partnerships.**

Maps that meet the ORMAP Technical Specifications will assist Polk County and urban communities address many issues (Growth, Economic Development, Annexations, etc..) more cost effectively.

**11. Describe any innovations that will be utilized by this project.**

Ties control maps to absolute control position so error is minimized. Given cost-effective nature of capturing control, it is better to capture a lot of control and know where you are then make educated guesses using other sources of information.

**12. Detail Costs (who is paying for what).**

- GIS/Survey/Cartographic Technician - \$20,000 (Grant)
- GIS/Survey/Cartographic Technician - \$5,700 (Polk County)
- Corner Control - \$ 8,000 (Polk County)
- GIS & GPS Equipment (Polk County)
- Aerial Photography, Digital Surveys (Polk County)
- Benton County Survey Staff - \$10,000
- Benton County Survey Corner Restoration Staff - \$4,000

**C. Quality Control**

**1. Who will be responsible for quality control?**

County Cartographer, County Surveyor, and County GIS staff.

**2. Will there be a review by county cartography staff?**

Yes

**3. Will there be a review by Department of Revenue cartography staff?**

If and when requested.

**4. Describe quality control procedures.**

- Government Corner locations will meet county restoration standards.
- Survey control points will meet county survey specification for mapping.
- Closure will be recorded and saved for all surveys entered.
- Closure/Surveys will be used to evaluate control point positions. Control Points that do not meet survey accuracy will only be used as secondary support.
- All surveys will be rotated and fit to control points. Any closure problems will be noted.
- After conversion, maps will be randomly checked for both relative and absolute accuracy.

**D. Data Availability**

**Identify this product’s restrictions on data sharing or licensing issues.**

The county has a data license that data users must sign. Data is shared with other public partners at no cost and is provided to anyone else for a small fee.

**E. Background Information**

**Any other information that you feel may help support the project. Please attach a current county or regional business plan if it is not posted on the ORMAP website.**

Business Plan filed on-line with ORMAP.

**G. Other Issues - Please identify.**

None

Submit completed forms to:

Mail	Contact Information
ORMAP Project Coordinator	Telephone: 503-945-8493

Oregon Department of Revenue  
Property Tax Division  
955 Center St. NE  
Salem OR 97301-2555

Fax: 503-945-8737  
Email: [or.map@state.or.us](mailto:or.map@state.or.us)

# Polk County ORMAP Project Status

