

KNOX COUNTY COMMISSION

Special Meeting

Tuesday – March 20, 2012 - 4:00 p.m.

A special meeting of the Knox County Commission was held on Tuesday, March 20, 2012, at 4:00 p.m., at the county courthouse, 62 Union Street, Rockland, Maine.

Commission members present were: Carol L. Maines, Commissioner District #1, Richard L. Parent, Jr., Commissioner District #2, and Roger A. Moody, Commissioner District #3.

County staff present included: County Administrator Andrew L. Hart, Administrative Assistant Candice Richards.

Others present: *(see below)*.

Special Meeting – Agenda
Tuesday – March 20, 2012 – 4:00 p.m.

- I. 4:00 Meeting Called To Order**
- II. 4:01 Meeting with Municipalities to Discuss Orthoimagery Project**
- III. Adjourn**

I. Meeting Called to Order

Commission Chair Roger Moody called the special meeting of the Knox County Commission to order at 4:00 p.m.

II. Meeting with Municipalities to Discuss Orthoimagery Project

Commissioner Moody asked everyone to introduce themselves:

- Roger Moody, Knox County Commissioner
- Richard Parent, Knox County Commissioner
- Carol Maines, Knox County Commissioner
- Andrew Hart, Knox County Administrator
- Grant Watmough, Town Manager for Warren
- Jim Murphy, Jr., Assessors Agent for the Towns of Union, Warren, Friendship, Bremen, Newcastle, Searsmont, and Morrill
- Bill O'Donnell, Warren Code Enforcer, plumbing and building inspector
- Dave Martucci, Assessors' Agent for the Town of Thomaston
- John Root, Code Enforcement Officer for the City of Rockland
- Joe Young, State Planning Office
- Dan Walters, US Geological Survey
- Jamie Francomano, Assistant Planner for the City of Belfast
- Wesley Robinson, Assessor's Agent for the Town of Camden
- Bill Blodgett, Lincoln County Commissioner
- Sheridan T. Bond, Lincoln County Commissioner
- Mal Carey, Newcastle Planning Board and Lincoln County RPC Board
- Bob Faunce, Lincoln County RPC
- Don Burke, Appleton Selectman
- Bob Peabody, Town Manager for Rockport
- Kerry Leichtman, Assessor for the Town of Rockport
- Steve Wilson, Planner, Code Enforcement officer and Plumbing inspector for the Town of Camden
- Dan Remian, Assessor and on the Cushing Planning Board
- Tom Luttrell, Finance Director for the City of Rockland

John Gibbons, Selectman for the Town of Union

Larry Pritchett, Councilman for the City of Rockland, Energy Committee

Administrator Hart explained that the Knox County Commission had decided in 2011 to put funding in the 2012 budget for this and held a meeting in July of 2011 to gauge municipal interest. If Knox, Lincoln and Waldo did something together, it would result in a higher savings for all three counties.

Dan Walters gave a brief overview of Orthoimagery and how the State came to participate. Some of the points mentioned during the meeting:

- A map was presented that showed the flyover schedule. Sagadahoc, Kennebec, Androscoggin, Lincoln, Knox, and Waldo Counties are all scheduled for 2013.
- The contract was signed in early December 2011 with Woolpert, Inc., a prominent firm in the aerial photography and mapping field since 1911. They are located in Dayton, Ohio, and have partnered with local Maine firms Kappa Mapping and Bradstreet Consultants.
- The base cost for the 2' orthoimagery (to be collected for most organized towns) is \$52.80 per square mile for contiguous areas greater than 1,000 square miles. The base cost is to be split three ways equally between State, Federal, and County partners.
- The USGS has pre-negotiated buy-up costs with Woolpert for the project. A town or any other organization wishing to buy up should first contact their county to see at what level the county is participating. Any buy-up on top of that would be initiated by contacting the Maine Office of GIS to enter into an MOA for a buy-up. All funding must be provided before the work order is submitted for any buy-up. There will be a buy-up workshop at the Spring 2012 Maine Municipal Association meeting in Portland.
- A town or group of towns can negotiate other buy-ups that are not on the cost sheet, such as LiDAR or imperviousness mapping related to this project. Contact the Maine Office of GIS to initiate discussions with the vendor.
- A DTM is a Digital Terrain Model, a 3-D representation of the terrain. A DTM is required to generate an orthoimage, and the higher the quality of the orthoimage required, the higher the quality of the DTM required to make it.
- The finished products: participating towns or counties will receive the orthoimagery as 4-band GeoTIF images with "world" files, and all relevant documentation and metadata.
- A fourth infrared band will be delivered with each image.
- Expected collection dates are each Spring, after snow melt but before full leaf-out, so as early as mid-April in southern Maine and as late as late May in some northern areas.
- Participating towns and counties will not have to pay for a digital copy of the data, though they will need to provide a hard drive to store it on. Non-participating towns and counties will need to use the standard methods of distribution - free download from the MEGIS website on a per-tile basis, or MEGIS copying the data for a \$500 flat fee.
- In the future, each town will be assigned to an RPC or COG or County for the purpose of coordinating/facilitating buy-ups.
- A town or group of towns can change their collection year but will risk losing the base funding and have to cover the entire cost of the collection - base + buy-ups.

- The USGS will be working with counties and planning commissions around the state to coordinate town buy-ups.
- LiDAR will be complete (high resolution land elevation). It isn't necessary but makes it a lot better than it would be if they just used the existing elevation. LiDAR accuracy = 18 centimeters (about 2/3 of a foot).
- Some scenarios of what it might cost if a group of municipalities participated were shown.
- Orthoimagery is useful for engineering purpose of digitizing road right-of-way's instead of going out and doing surveying.
- Towns don't have to buy together but it's more expensive if a single town wants to buy up by themselves. The more area covered in a buy up, the cheaper it is for everybody.

COST SCHEDULE

Per square mile costs					
GSD (pixel resolution)	Accuracy Specification	Horizontal Accuracy	Cost per sq mi Areas 0-30 sq mi	Cost per sq mi 31-1000 sq mi	Cost per sq mi > 1000 sq mi
24"	NMAS 2'	13.3'	\$63.80	\$58.30	\$52.80
1 meter	NMAS 1m	16'	\$59.40	\$53.90	\$48.40

Summary costs per county							
NEED TO BACKOUT THE N-REGIONS DISCOUNT SINCE THAT IS 1M AND THIS TABLE IS ALL 2'							
County	Refresh Rate	Sq. Mi.	County share for one collect	County	Refresh Rate	Sq. Mi.	Cost of one collection
Androscoggin	3 years	500	\$9000	Oxford	5 years	2350	\$40,500
Aroostook	5 years	7300	\$122,500	Penobscot	5 years	3650	\$63,000
Cumberland	3 years	1100	\$19,500	Piscataquis	5 years	4450	\$73,500
Franklin	5 years	1850	\$32,000	Sagadahoc	3 years	350	\$6,000
Hancock	5 years	2230	\$38,500	Somerset	5 years	4300	\$71,000
Kennebec	3 years	950	\$17,000	Waldo	5 years	850	\$15,500
Knox	5 years	800	\$13,500	Washington	5 years	3300	\$56,500
Lincoln	5 years	650	\$11,000	York	3 years	1200	\$21,000

- The USGS will need signed MOA's by February 15, 2013 for the county to be flown in 2013. The data would be available in the fall. Payment would have to be received by March 15, 2013 for \$12,513 (amount is dependent on how many municipalities/counties participate).
- The agreements are for three years, so it's not a life commitment and you can change the amount of buy-up if you need to when you sign a new agreement.

Buy-ups to the base program

GSD (pixel resolution)	Map Scale	ASPRS Class	Horizontal Accuracy	Buy-up costs per square mile		
				0-30 sq mi	31-1000 sq mi	> 1000 sq mi
3"	1"=50'	Level 1	6"	\$919.60	\$908.60	\$897.60
3"	1"=50'	Level 2	12"	\$477.40	\$466.40	\$455.40
6"	1"=100'	Level 1	12"	\$268.40	\$257.40	\$246.40
6"	1"=100'	Level 2	2'	\$151.80	\$140.80	\$129.80
12"	1"=200'	Level 1	2'	\$103.40	\$92.40	\$81.40
12"	1"=200'	Level 2	4'	\$69.30	\$58.30	\$47.30
24"	1"=400'	Level 2	8'	\$46.20	\$35.20	\$24.20

- If municipalities buy up they will get a copy of the data directly from the vendor. The state will get a complete copy of everything and turn it into a web-mapping service so people can log in online if they don't want to work from a CD. Counties will also get a copy of the data if they want it. 1 foot ortho = 1,500 meter tiles. There will be an index so you don't have to pull up an entire town to see one area of it.
- Uses for the three different resolutions depend on how accurate what you're doing needs to be. If 24 inches works for what you're doing, you don't need the higher resolution, but those wouldn't be accurate enough to see who added a pool they didn't get a permit for, etc. At two feet you're never going to see telephone poles, man holes, fire hydrants, sidewalks, etc.
- Offering tax map services with the same imagery is not part of this project. The USGS hopes that the vendors who create the maps are being involved so towns can access tax maps online.
- Updated information will be sent to the Knox Administrative office to be distributed to all three counties. The information will hopefully be sent out in a couple days – it's just a matter of plugging numbers into a spreadsheet.

III. Adjourn

- A motion was made by Commissioner Carol Maines to adjourn the meeting. The motion was seconded by Commissioner Richard Parent. A vote was taken with all in favor.

The meeting adjourned at 5:13 p.m.

Respectfully submitted,

Candice Richards
 Administrative Assistant

The Knox County Commission approved these minutes at their regular meeting held on April 10, 2012.