



TO: M. Brazier, President & Members of the Board

FROM: C. Kelley, Director of Economic Development
T. Larkman, Administrative Coordinator

SUBJECT: WEBCAM/WIFI Project

RECOMMENDATION

1. That \$3100 be approved to complete the webcam/security project in 2009 budget as follows:
 - a. Creative One – Website host/webmaster – to prep the website, up to \$1000
 - b. Software purchase – WOWZA, \$1050
 - c. Software purchase – MICROSOFT WINDOWS SERVER (server cost), \$1000
2. That \$4500 be approved to implement webcam/security project in the 2010 budget as follows:
 - a. Streaming Server – Lease server space from Lakeland Energy \$3600 (max)
 - b. MCCOWMS Software Licenses (3) - \$525
3. That the BIA enter into an agreement with Lakeland Energy for the hosting and streaming of the BIA webcams to be reviewed annually;
4. That the BIA enter into an agreement with Lakeland Energy for the hosting and securing of the CCTV recorder to be reviewed annually; and,
5. That the BIA postpone any further consideration of a speaker system until the fall of 2010/spring 2011.

UPDATE

6. From mid 2006 to end of 2006 the BIA Board of Management explored a wireless audio network in Downtown Bracebridge as a result of a proposal received from member, Bridge City Electronics in May 2006.
7. The Initial proposal by Bridgecity in May 2006 was to provide music and Wifi to the whole BIA – price included 23 speakers, installation, 3 access points) Total cost 56 100.00 but indicated the price would vary depending on number of access points required. Bridgecity met with the board on May 30, 2006 to present the proposal. Board passed based on costs/budget limitations at the time.
8. 2007 the BIA Board of Management had discussions regarding a “wi-fi”/“hotspot” in downtown Bracebridge and discussed the potential of merging the wireless Internet “hotspot” with a wire speaker system.

9. Some discussions took place between Lakeland Energy (a division of Lakeland Power Distribution Ltd) regarding the installation of these services for the BIA. The discussions were concluded because of Lakeland's inability to take the project further because they were not considered an "internet service provider".
10. Lakeland Energy introduced the BIA to Indiginet in March 2007 and Indiginet was introduced as the potential Internet service provider for this project. On March 27 2007 Lakeland provided the BIA with two quotes from the following competitors Indigiinet Corporation – ISP in a Box (iiAB) and Total Access Wireless ("TAW")
11. On May 29, 2007 the board met with Bill to discuss his original concept of "ISP in A box" which was a solution to provide wireless connectivity, Wifi Hotspot, and wireless speakers. At this meeting the board requested that webcams/security cameras also be looked at and determined an RFP was required.
12. The BIA issued an RFP (copy attached) for the wi-fi/speaker/high speed Internet project on July 12, 2007. Three proposals were received – Bell Canada, Cygnal, Indiiginet.
13. On October 2, 2007 the board met with Cygnal Technologies and Indiiginet separately to discuss their RFP submission. Indiginet was selected as the preferred supplier.
14. Several discussions took place with Indiginet and some issues were identified with respect to the "wireless" component.
15. A further decision was made to review a "wired" option with Lakeland Energy and Indiginet working together.
16. On February 22, 2008 an MOU was signed with the BIA, Indigent and Lakeland and work proceeded with the direction set from the MOU and the proposal received from Indigent. (Copy attached)
17. On March 25, 2009 Lakeland Energy informed the BIA that they were unable to carry forward with the terms of the MOU.
18. On April 1, 2009 the BIA provided notice to all parties of their hope that the parties could resolve issues.
19. On May 7, 2009 the BIA provided notice to Indiginet that based on the situation, the terms of the MOU could no longer be met. The BIA has worked with legal Counsel to ensure that all steps legally have been taken/met to ensure that the BIA has no further liabilities within this MOU.
20. At the last Board meeting held on June 30th, the Coordinator reported that most of the legal activities related to the agreement had been completed.
21. At the last Board meeting, the Board agreed to allow the Town's Director of Economic Development to have discussions with Lakeland Energy and to bring forward a plan to help move the project forward.
22. The Board agreed the priorities were the webcams, i.e. those that were already installed and, the speaker system.
23. Several meetings have taken place between the staff at Lakeland Energy and the BIA Board including several in July, August, October and November. A number of steps were taken and are outlined below.

Review of the Equipment

24. The BIA purchased various pieces of equipment that have been examined by Lakeland Energy Staff, i.e. those returned from Bill Hay/delivered to the BIA and to establish what has been installed/not installed.
25. The invoices from Indignet suggest that 3 cameras have been purchased and based on Lakeland's review, the following is the equipment status:
 - a. Two cameras have been installed (one on the Giaschi Building, one at Norwood Theatre as was the instruction from the Board of Directors). model # Panasonic WVNS202AP PTZ
 - b. The camera on the Giaschi building has been turned on, but not recording, nor publicly accessible.
 - c. One camera remains in a box model # Panasonic WVNS202AP PTZ
 - d. The cameras purchased are classed by Panasonic as CCTV (i.e. closed circuit TV).
 - e. The "server" outlined on invoice number 2070 is actually the recording device – (Panasonic 2 TerraBite Server) and has not been installed anywhere. It remains in a box.
 - f. Three power supplies have been purchased and have been accounted for.
 - g. According to invoice #2183, dated August 20, 2008, the BIA has been charged (and has paid) \$339.86 plus taxes for the installation of the webcam at 29 Manitoba Street.

Webcam – Tech Challenges

26. The cameras purchased are CCTV ready (as noted above).
27. According to Lakeland/Panasonic the existing hardware and associated "technology" allows for only 5-12 viewers per camera. It does not allow the video to be streamed on the web and it allows each user direct access to the camera controls.
28. In order for the images to be streamed to the web, the BIA will:
 - a. require a steaming server (or access to a streaming server)
 - b. require some type of software installation to allow for the images to be adapted for website usage
 - c. require modification to the BIA's existing website
 - d. will have to be wired or linked together the two existing cameras
 - e. will have to arrange for hosting of the images (i.e. on a server).
 - f. have to complete the necessary "policy" related items including those related to recording of images and access to the policy.

29. November 2009 Update

- 30. Lakeland Energy has completed the installation and linking of the 2 webcams that are currently mounted in the Downtown Core.
- 31. Through a variety of steps Lakeland has identified the equipment and software required to make the project operational based on the "webcam" and "security" vision first proposed by the BIA.
- 32. A diagram of the various steps will be provided to the Board at the meeting.
- 33. Lakeland staff have contributed over 120 hours of staff time in this project at a value of approximately \$10,000. Lakeland is not requesting a reimbursement of these fees.
- 34. With the assistance of Lakeland Staff, the following cost estimates have been developed.

Costing

- 35. The costs to complete the project are outlined below.

ONE TIME COSTS:	
Creative One – Website host/webmaster – to prep the website	\$350 - \$1000
Software purchase – WOWZA	\$1050
Software purchase – MICROSOFT WINDOWS SERVER (server cost)	\$1000
ANNUAL COSTS (BASED ON 2 CAMERAS)	
Streaming Server – Lease server space from Lakeland Energy *** This will be reviewed after 2 months of operation for pricing adjustments	\$2400 year (MAX)
Software License fee – MCCOWMS	\$175 per year per camera

- 36. It should be noted that for every additional camera added (over the 2), there will be some additional costs to operate.
- 37. The BIA's web hosting company has already incurred fees of \$337 plus gst/pst and the invoice has just been received.
- 38. Once the Website (through Creative One, the BIA's website host) has been upgraded to host the streaming images, Lakeland estimates that the project could be up and running within two weeks.
- 39. Once the streaming videos are live, the BIA would work with Lakeland to operationalize the CCTV aspect through various steps ensuring that we are complying with the BIA's policy under Municipal Freedom of Information and Personal Privacy Policy.

Speaker System

40. In order for a speaker system to be planned appropriately the following steps are recommended:
 - a. A review of existing systems in other communities and areas (examples Collingwood, Coburg, a mall some where)
 - b. A review of equipment possibilities and placement/interval requirements for speaker installations
 - c. Identifying where speakers can be installed (i.e. poles or buildings)
 - d. If on poles, the BIA will be required to improve/change the hydro capabilities on each pole.

41. At this time, the BIA is not in a position to move forward on the project until the above steps are taken.