

May 25, 2007

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Teddy Hooton, P.E., Street Superintendent
City of Jonesboro
P.O. Box 1845
Jonesboro, Arkansas 72403

Regarding: Storm Siren System

Dear Mr. Hooton:

Based on our recent meeting and my subsequent survey of the City, I have prepared a comprehensive report on the City's storm warning system for your consideration.

COVERAGE IN MAIN CITY:

The coverage throughout the main City is generally very good. Also, with the recent change to the 3 sirens on order, the omni-directional coverage will further increase the warning level in the areas where these sirens will be located and in the adjacent areas.

As discussed, my only major concern with the coverage in the main City is along the South and West perimeters. With most storms coming out of the SW, I believe that the accompanying winds shift the coverage NE, opening coverage gaps along the western and southern borders.

To fill these gaps and to provide a safety margin, I recommend locating 2 Sentry model 16V1T-B Storm Warning Sirens at or near:

- * Blackberry & Wilderness Run
- * Southwest & Wilkerson Drives

In addition, I recommend locating 2 smaller Sentry model 7V8-Bs at or near:

- * Dan Avenue & Shady Lane
- * Whispering Pine Lane (north end)

The Sentry model 16V1T-B is the same model that the City currently has on order. The model 16V1T-B and model 7V8-B are both omni-directional and equipped with battery back-up. The current price for the model 16V1T-B is \$16,500.00, installed. The current price for the model 7V8-B is \$14,500.00, installed.

SERVING THE PUBLIC SAFETY FIELD

COVERAGE IN THE INDUSTRIAL PARK:

Coverage in the industrial park is incomplete. As the area develops, I recommend adding 6 Sentry model 16V1T-Bs at or near:

- * Kathleen Street * Pacific Road
- * Highland Drive * Easley Lane
- * Highway 63 & Hancock Road
- * Highway 63 (Opposite Taylor Chapel Lane)
- * C W Post Road & Quality Way
- * Ingels Road & Industrial Drive

As shown on the enclosed map, the proposed coverage does not have the same level of overlap as the main City. The Industrial Park is flat with significantly lighter tree cover and for these reasons the outdoor coverage from the sirens should be maximized.

In addition, the size and/or high noise level of many of the structures in this area greatly limit the indoor effectiveness of a storm siren system. For this reason, I recommend supplementing the storm sirens with Veetronix model 2TR9A Desk Top Radios.

A radio would be located in the main office or other key location at each business. The model 2TR9A is equipped with battery back-up and audible alarm. It would be activated from the dispatch using a code similar to the one used to activate the sirens. Once activated, a voice message as to the nature of the emergency can be given.

The price of a Veetronix model 2TR9A Desk Radio completely programmed and delivered is \$325.00.

REPORTBACK SYSTEM:

The Sentry model G5 Siren Controller includes 2-way communication between siren sites and the dispatch center. It is capable of monitoring the individual sites for battery voltage, siren activation, intrusion, etc.

The G5s would replace all of the radio decoders currently controlling the sirens. The siren system would be activated in the same way as it is currently. However, you would also have the ability to interrogate the system to determine the status of each siren and the system would automatically report a fault.

The proposed Reportback System can be expanded to accommodate additional sirens. The G5 Controllers could be switch to new sirens as the ACA Alertors are replaced. The cost to equip the 26 current sirens would be \$86,000.00, installed.

If you have any questions on the survey or the equipment proposed, please let me know.

Sincerely,

Frederick R. Engelbrecht
President

FRE:st

Jonesboro Tomaco Sirens

