

MARIN EMERGENCY RADIO AUTHORITY

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DATE: September 09, 2020
TO: MERA Executive Board
FROM: Dave Jeffries, Deputy Executive Officer for the Next Gen Project
SUBJECT: AGENDA ITEM B-3: Proposed Professional Services Contracts –
Site Borings, Soils Testing and Fiber Pulls

Recommended Action: Approve items #1-#3.

Background:

As the project management emerges from the transition, we have identified a few items needing Board approval. The individual and combined costs are within the spending authority of the Executive Board (\$100,000) and approval at this meeting will allow the project to immediately proceed on these items. All items will be reported to the Governing Board at their next meeting.

The Executive Board should also be aware that we are developing quotes for Geotech Site Borings, Soils Testing and development of a CAD interface that will be presented to the Governing Board on 09/23/20 for approval.

Items for Decision:

1. Installation of second fiberoptic cable at EOF (anticipated construction cost)
Cost: \$12,673.00 (22 June quote)

The core equipment for the Next Gen radio system will be located in the radio room in the EOF building's penthouse. This core equipment will connect to several external services such as fire station alerting and remote wi-fi programming of user radios. External service providers will connect to the building's "minimum point of entry" (or connection point) in the basement, but no physical cable currently exists between the penthouse and the basement, so a new fiberoptic cable is required.

2. Installation of fiberoptic cables at Civic Center / Radio Shop (partly anticipated and partly unanticipated construction cost)
Cost: \$18,922.76 (18 August quote)

A computer to monitor and manage the Next Gen radio system will be located in the Marin County Radio Shop, located in the County's General Services Building on Peter Behr Drive, approximately 300 yards from the Civic Center. This management computer will connect to the Next Gen core equipment at EOF using a microwave antenna on the roof of the Civic Center. It has been understood from the beginning of the project that a new fiberoptic cable would be required that would run from the first floor of the Civic Center to the microwave equipment on the second floor (the anticipated cost). However,

MERA was only recently informed that the existing fiberoptic cable from the Civic Center to the Radio Shop is already at capacity, and a new fiberoptic cable would be required for this route (the unanticipated cost).

3. Qty (2) AC Inverters for EOF (anticipated construction cost)

Cost: Purchase NTE \$10,000.00 and Installation NTE \$1,500

New network switches have been purchased to allow the core equipment for the Next Gen radio system located at EOF to communicate with external services (e.g., to remote dispatch centers, fire station alerting, and remote wi-fi programming of user radios). These switches are powered by AC current, but the battery backup system in the equipment room (used during power interruptions) provides DC current. The two inverters (primary and backup) will convert DC current to AC current allowing the network switches to operate during power interruptions.

Attachments:

B-3a) MBE quote for EOF Fiber Pull, dated 06/22/2020

B-3b) MBE quote for Civic Center to Radio Shop Fiber Pull, dated 08/18/2020

B-3c) Price Listing for Invertors, dated 08/31/2020