Sparrow Health Systems - NETWORK PLAN

1. Goals and objectives of the proposed network

Located in Lansing Michigan, Sparrow has been offering quality health services to the region since its opening in 1896. Sparrow was created when the Women's Hospital Association set out to bring critical medical services to Lansing.
Sparrow has two Lansing campuses, Sparrow Clinton Memorial Hospital in St. Johns, Sparrow Ionia Hospital in Ionia, and an affiliate hospital, Carson City Hospital. The health system has dozens of satellite care centers.
Sparrow Hospital operates as a short-term acute care, not-for-profit organization. In total Sparrow is licensed for 680 beds and discharges over 30,000 people annually.

The goal is to connect all the remote sites to the hospital's information systems to provide a central source for patient information. Connecting the clinics to the hospital's network allows the clinics to access all of its resources including primary EMR applications, current and NextGen information services.

The long-range vision of Sparrow Health Systems is to enable a set of standard telehealth connection services that will interconnect throughout the region and facilitate any healthcare location in the nearby state to share one or more telehealth services with any other healthcare location in the regional and ultimately to share on a national level.

2. Strategy for aggregating the specific needs of health care providers (HCPs), including providers that serve rural areas, within a state or region

Most of the remote clinics are small, so providing a separate EMR application for each site would not be cost effective, and would make the sharing of this information with other health care providers difficult. By sharing the hospital's resources, each clinic and remote site will have access to a much broader array of information services

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3. Strategy for leveraging existing technology to adopt the most efficient and cost-effective means of connecting those providers

The clinics already have network equipment to interconnect PCs and printers. By using high speed connections and standard network equipment, Sparrow Health Systems will be able to connect the PCs and printers in the remote offices to the hospital's existing network. This will allow access to servers and applications in the hospital as well as cloud based applications available on the internet. The hospital already has an extensive network of leased facilities, which interconnect connects the Hospital and remote clinics.

4. Discussion of how the broadband services will be used to improve or provide health care delivery

The hospital and clinics have direct access to the internet for cloud based services and dedicated access for such services as radiology and patient records. Remote locations are connected using a combination of Voice Grade data lines, ISDN and high speed Ethernet internet connections. This network will support applications such as:

- Interactive video conferencing and telemedicine.

- Streaming video for distance learning and continuing education.

- Enabling medical record queries from multiple sources.

- Transmission and receipt of imaging files.

- Web-based collaboration tools for meetings and peer-to-peer consultation and interaction and for hospital administration.

- Access to internet based resources for staff and patient education.

The hospitals and all clinics and locations will benefit from these high speed connections. Facilities will be upgraded and expanded, as needed for growth and new services beyond what's mentioned above.

5. Discussion of previous experience in developing and managing health IT (including telemedicine) programs

Thomas A. Bres, SVP, Chief Administrative Officer, CIO and Consortium Leader for The Sparrow Health Systems, will oversee this project.

6. A project management plan outlining the project's leadership and management structure (a work plan, schedule, and budget)

- Thomas A. Bres will act as the project manager.

- Schedule:
  - Bid process to last 28 days with earliest contract selection date on the 29th day
  - Implementation of service is expected to take place within 60 days of the Allowable Contract Selection Date

- Budget:
  - Telecommunication Services - ~$200,000
  - 65% of these costs will be covered under the Healthcare Connect Fund, while the remaining balance will be paid out of the hospital's income.

7. **Sites that are participating in this consortium are:**

HCP NO.	Site Name	HCP Address
16716	Sparrow Clinton Hospital	805 S Oakland Street, St. Johns, Michigan 48879
62246	Heart Clinic and Diagnostic Center - Owosso	300 Health Park Drive, Owosso, Michigan 48867
62249	Sparrow Medical Group St. Johns	901 S. Oakland , St. Johns, Michigan 48879