



CITY OF BERWYN, ILLINOIS

IT Department

Request for Proposal (RFP):

Network Infrastructure:
Cisco Catalyst 9400/9300
And Related Components

November 2021

Contents

- I. City of Berwyn Introduction and Background
- II. Project Scope and Summary
- III. Project Locations
- IV. Project Minimum Specifications
- V. Miscellaneous and Legal
- VI. Submission and Contact Info

- I. **The City of Berwyn, Illinois (Berwyn) is a municipality located a few miles west of Chicago.** Berwyn employs approximately 500 staff who in turn serve more than 56,000 residents. Berwyn occupies less than 4 square miles of dense urban land, surrounded by its neighboring towns: Oak Park, Forest Park, Cicero, Riverside, North Riverside, Lyons, and Stickney.

Two major railways run through Berwyn: Canadian National (CN) and Burlington Northern Santa Fe (BNSF). The BNSF line further supports Metra and Amtrak rail commuter systems, making Berwyn a bustling and challenging environment for civil engineering projects.

More information is available on Berwyn's official website:

www.berwyn-il.gov

- II. **Berwyn is seeking vendor proposals for Cisco Catalyst 9400 and 9300 switching equipment and related components, services, and subscriptions.** This equipment will be forming the backbone Metro-Area-Network (MAN), connecting at least eight locations via dark fiber.

The network topology will be shifting from a Cisco ISR G2 multipoint network to a hub-and-spoke L3 switched design. It is assumed that Berwyn will be using CWDM and/or DWDM multiplexing technologies in addition to "regular" Ethernet over fiber. The project aims to accomplish the following objectives:

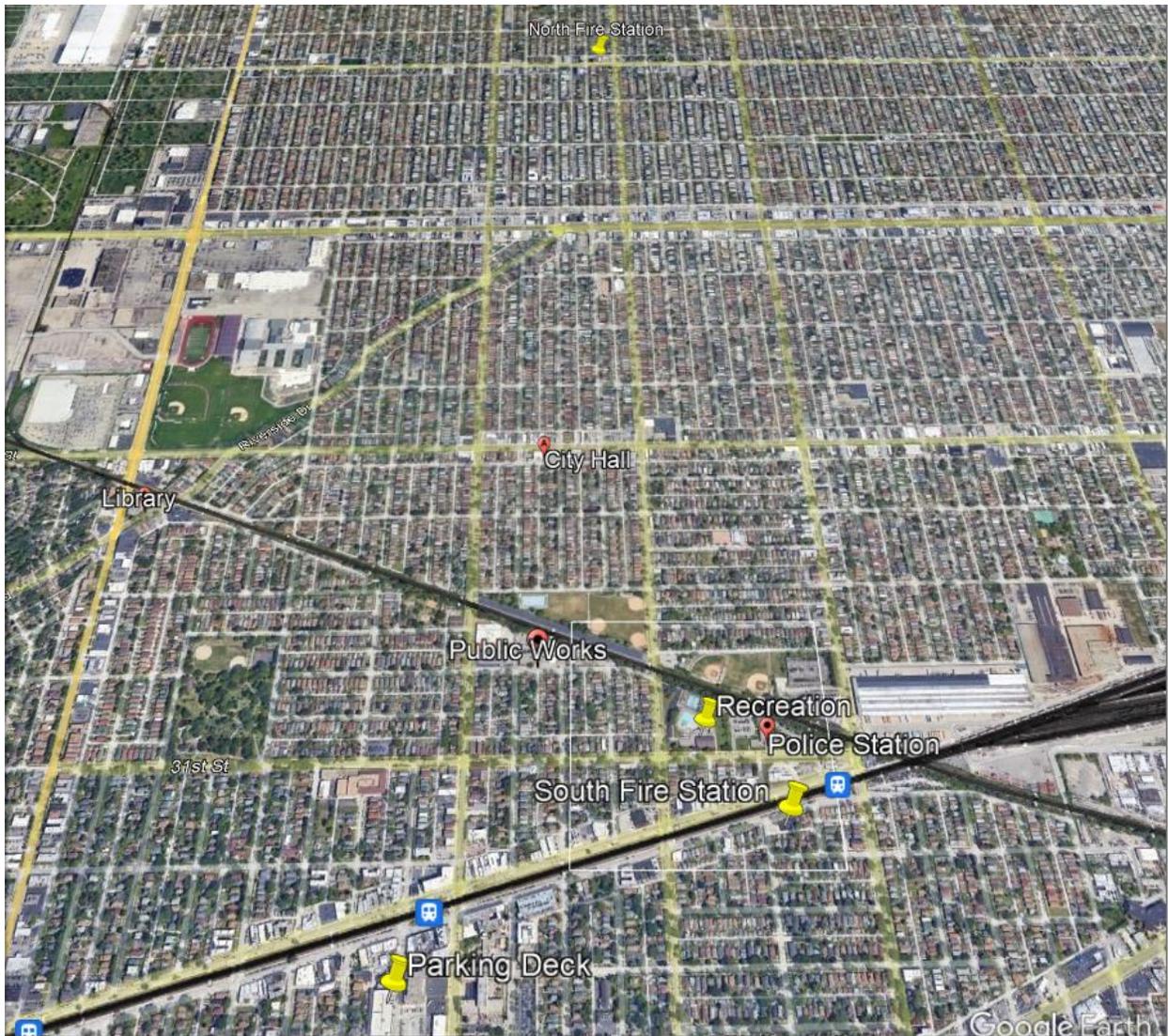
1. Establish a dark fiber hub at the City Hall location through the use of a single Catalyst 9404 chassis switch.
2. Establish approximately seven "spoke" locations through the use of Catalyst 9300 series switches.

3. Facilitate full dynamic routing capabilities at speeds of 10Gbps or higher between all locations.
4. Protect and secure core network links through the use of MACsec and/or Layer 3 VPN technologies.
5. Establish baseline access-layer protections and visibility through the use of Cisco Identity Services Engine (ISE).
6. Establish baseline network operations through the use of DNA Center (DNAC) appliances, subscriptions, and modules.
7. Purchase and make use of project related Professional Deployment Services offered by the selected vendor.
8. Purchase and make use of Cisco Network Advantage and SMARTnet licensing/contracts pertaining to above equipment, for a minimum of three years, up to a maximum of five years.
9. Maintain open communication with the selected vendor throughout the duration of the project.

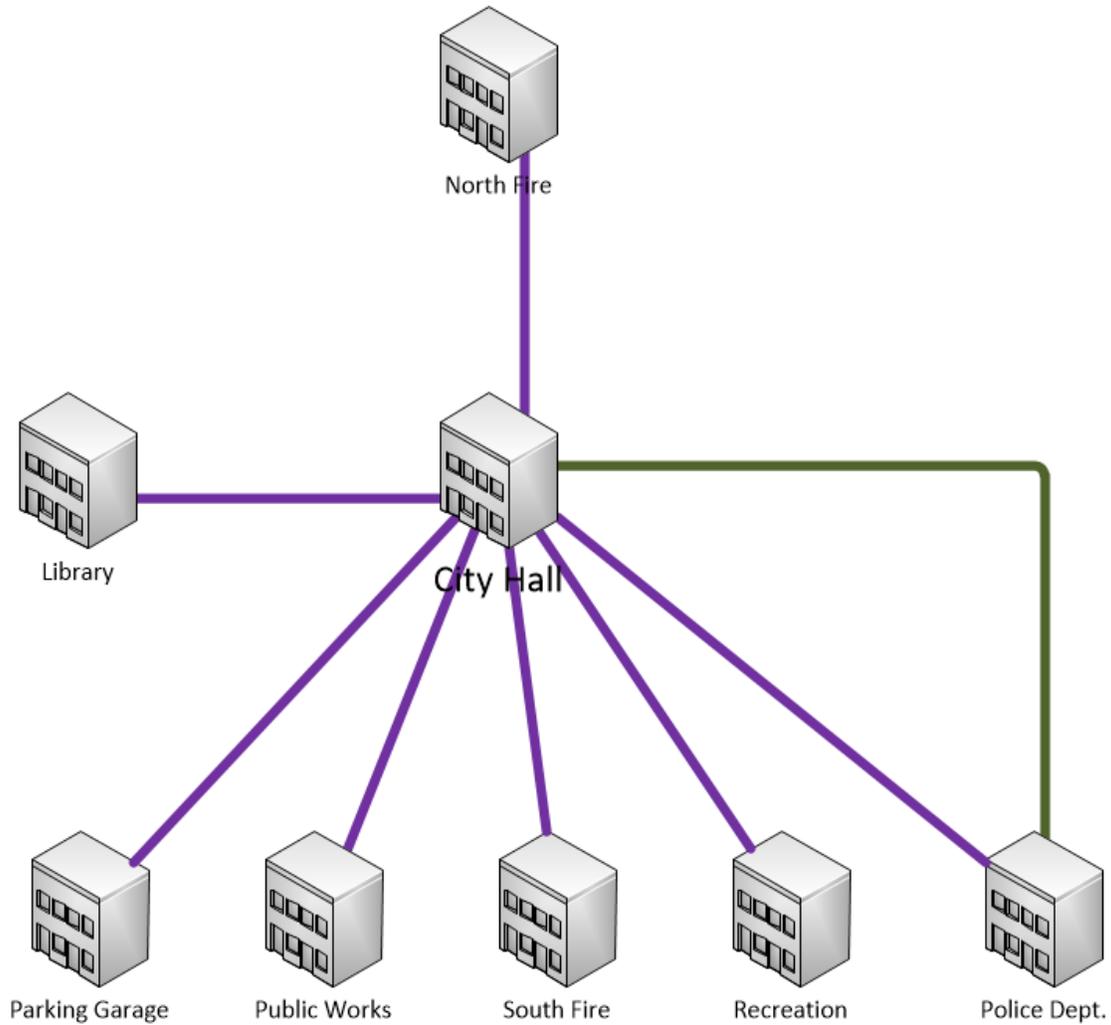
III. Project Locations:

Label	Name	Address (Berwyn, IL)	Note	Strands
Location 1A	City Hall	6700 W 26 th St.	Hub Site – Path A	(Hub)
Location 1B	City Hall	6700 W 26 th St.	Hub Site – Path B	2
Location 2A	Police Dept.	6401 W 31 st St.	Spoke Site – Path A	2
Location 2B	Police Dept.	6401 W 31 st St.	Spoke Site – Path B	2
Location 3	Library	2701 S. Harlem Ave.	Spoke Site – Path A	2
Location 4	Public Works	6700 W 30 th St.	Spoke Site – Path A	2
Location 5	Recreation	6501 W 31 st St.	Spoke Site – Path A	2
Location 6	South Fire	6434 W Windsor Ave.	Spoke Site – Path A	2
Location 7	North Fire	6615 W 16 th St.	Spoke Site – Path A	2
Location 8	Parking Garage	3310 Grove Ave.	Spoke Site – Path A	2

[Table 1, Location Summary]



[Figure 1, City of Berwyn Overview]



[Figure 2, Logical Topology]

IV. To facilitate successful project outcome, the following minimum equipment list is defined:

(Note: List is subject to further refinement based on customer requirements)

Description	Part #	Est. Qty.
Group A: Hub Location		
Catalyst 9400 Series 4 slot, Sup, 1xC9400-LC-48U, DNA-A LIC	C9404R-48U-BNDL-A	1
SN7C-24X7X4 Catalyst 9400 Series	ON-SNTP-C9404R-4	1
Cisco Catalyst 9400 Series 3200W AC Power Supply	C9400-PWR-3200AC	4

Cisco Catalyst 9400 DNA Advantage 3 Year License	C9400-DNA-A-3Y	1
Cisco Catalyst 9400 Series Sup-1XL Bundle Select Option	C9400-SUP-1XL-B	1
Cisco Catalyst 9400 Series 24-Port 10 Gigabit Ethernet(SFP+)	C9400-LC-24XS	1
Cisco Catalyst 9400 Series Redundant Supervisor 1XL Module	C9400-SUP-1XL/2	1
Group B: Spoke Locations		
Catalyst 9300L 24p data, Network Advantage ,4x10G Uplink	C9300L-24T-4X-A	9
SNTP-24X7X4 Catalyst 9300L 24p data, Network Advantage	CON-SNTP-C00L2XAL	9
350W AC 80+ platinum Config 1 Secondary Power Supply	PWR-C1-350WAC-P/2	9
C9300L Cisco DNA Advantage, 24-port, 3 Year Term license	C9300L-DNA-A-24-3Y	9
Cisco Catalyst 9300L Stacking Kit	C9300L-STACK-KIT	9
Group C: Transceivers		
10GBASE-LR SFP Module, Enterprise-Class	SFP-10G-LR-S=	18

V. Miscellaneous and Legal

- The Vendor's proposal must be complete to be considered for award.
- The Proposer is responsible for all costs related to the preparation of this proposal.
- Proposer shall supply all information and submittals required by the proposal documents to constitute a proposal. The proposal shall clearly state the legal name, address, email, telephone number, and fax number of the Proposer. The proposal shall be signed above the typed or printed name and title of the

signer. The signer shall have the legal authority to bind the proposer to proposal.

- The City of Berwyn reserves the right to qualify, accept or reject any or all vendors and accept any proposal deemed to be in the best interest of the City of Berwyn. The City of Berwyn reserves the right to accept or reject any or all proposals and to waive irregularities or technicalities in any proposal when in the best interest of the City of Berwyn. The City of Berwyn reserves the right to accept or reject any exception taken by the vendor to the terms and conditions of the request for proposals.
- Consideration may be given to, but not limited to services available, hours of services available, references, and special pricing. The City of Berwyn reserves the right not to accept the lowest proposer.
- All prescriptions of the RFP shall be understood as a form of a signed contract.
- Any acceptance of a proposal shall NOT result in a binding contract between the City of Berwyn and the Proposer, but instead **will simply enable negotiations to take place**, which may eventually result in a detailed and refined agreement, contract, or purchase order between the Proposer and the City of Berwyn.
- Proposals must include a high-level estimated timeline of major project milestones and/or phases. The selected Vendor(s) must maintain open, transparent, and frequent communication with City officials, Berwyn Public Works, and Berwyn IT throughout the duration of the project.
- Inside access to City locations must be coordinated at least 48 hours in advance.
- The City of Berwyn is exempt from all Federal, State of Illinois and other State Taxes on the purchase of commodities and services used by the City of Berwyn within the State of Illinois. The Finance Department shall provide a tax exemption certification to out-of-state taxes imposed on purchases of commodities and/or services which are used within another state and are applicable and subject to payment.
- Contractors and subcontractors shall pay all legally required sales, consumer and use taxes on all commodities and/or services purchased or rented to complete their contract.
- Proposer is not and shall not be deemed to be, an agent or employee of the City of Berwyn, but shall be deemed an Independent Contractor.

- The Proposer, including their subcontractor, employees, representatives or agents, shall indemnify, defend and hold harmless the City of Berwyn and its officers, employees, and agents from any and all liability loss, cost, damage and expense (including reasonable attorney's fees and court cost) resulting from, arising out of, or incurred by reason of any claims, actions or suits based upon or alleging bodily injury including death, or property damage rising out of or resulting from the Proposer's operations under this document.
- Due to the nature of ARP funding, the selected vendor must be a registered contractor on sam.gov. Click [here](#) for registration information.

VI. Vendor proposals must be submitted by **Tuesday, January 25, 2022, via email only, to the following address:**

FiberProject@ci.berwyn.il.us

Inquiries concerning the RFP process or project requirements directed to:

James Frank

IT Director

JFrank@ci.berwyn.il.us

[708-749-6570](tel:708-749-6570)

Questions pertaining to site locations, connectivity, or other technical matters directed to:

Ben Smogolski

Assistant Director, IT

BSmogolski@ci.berwyn.il.us

[708-749-6335](tel:708-749-6335)