

Overview

The Worcester Public Schools is soliciting quotes for a wireless network retrofit at a single location. Procurement will include new STP and fiber optic cable installation, re-termination of existing UTP and mounting of new wireless access points.

This project is structured into three phases. Award of each phase is budget-dependent, and the District may award:

Phase A only

Phases A & B together

Phases A, B & C together

There is no guarantee that all phases will be awarded. Vendors must provide pricing exactly as outlined on the attached price sheet, including:

A total cost for **Phase A**

A combined total cost for **Phases A & B**

A combined total cost for **Phases A, B & C**

All pricing must be all-inclusive, covering labor, materials, equipment, and any associated costs required to complete that award scenario.

A walkthrough of the site will be available on April 22nd, 2026 at 09:00 AM EST

Vendors must RSVP for the walkthrough, by emailing your intention to attend the walkthrough. If there are no responses to the RSVP, there will be no walkthrough. Vendors providing a quote are strongly encouraged to attend. RSVPs can be emailed to Dustin VanDyke: vandyked@worcesterschools.net

Location:

Durkin Administration Building
20 Irving St, Worcester, MA 01609

All work must be completed NLT June 30th, 2026.

Phase A: Wireless network upgrade.

The vendor will provide all labor, materials, and equipment for a complete, permanent, and tested Category 6A STP structured cabling system. The vendor will mount and connect district provided wireless access points (WAPs) to specified locations.

Vendor work includes the installation of access points, plenum-rated CAT 6A STP cabling, patch panels, wallboxes/jacks and the testing and labeling of all components and cables. The vendor is responsible for determining the length of cabling required and for any additional hardware or supplies required but not specifically listed in this scope of work. Vendor will test all connections for full functionality.

Required hardware listed in parts/specifications section.

WAP, MDF, and IDF locations are listed in Appendix A.

Phase B: Wired network re-termination.

Phase C: Fiber optic network upgrade.

The vendor shall install new single mode fiber (SMF) between specified MDF/IDF locations. The vendor shall provide all labor, materials, and equipment required.

Vendor work includes the installation of fiber panel enclosures, single mode fiber, and testing and labeling of all components and cables. The vendor is responsible for determining the length of fiber cabling required and for any additional hardware or supplies required but not specifically listed in this scope of work. Vendor will test all connections for full functionality.

Required hardware listed in parts/specifications.

MDF, and IDF locations are listed in Appendix A.

Site Requirements & Safety

The vendor must clean up at the end of each day, and no ceiling tiles are to be left open overnight. Hazardous materials may exist. A hazardous materials document is located on site for that location. The vendor is responsible for ensuring no hazardous materials are disturbed. If hazardous materials are disturbed, the vendor must stop work immediately and notify an authorized Worcester Public Schools representative. The vendor will be responsible for all costs associated with clean-up and air quality testing by a company of WPS's choosing.

Required Deliverables

Upon completion, the vendor will provide the WPS Network Operations Team with a document listing the patch panel labeling and its associated wall jack/surface jack location. (refer to the labeling section for example document format). The vendor will also provide updated floorplan with any jack or WAP location changes annotated.

Parts & Specifications

- **Condition:** All wiring, materials, and components are required to be in new condition.
- **Copper Cabling Specs:** All CAT 6A STP cabling must be plenum-rated and orange in color.
 - Any CAT 6A run that exceeds the normal limit of 100 Meters, MUST use Paige Datacom Solutions Game Changer CAT 6A cable. Use of Game Changer cable must be limited to 200 Meters.
 - Any CAT 6A run beyond 100 meters must be certified to a minimum of 1Gbps and capable of IEEE 802.3at (PoE+) standard for power delivery.
 - Other than above stipulations, no wire run will exceed CAT 6A specified maximum distance of 100 Meters.
 - Final decisions on any CAT 6A runs over 100 meters will be coordinated with WPS IT.
- **Wiring Standard:** Vendor will use the T568B wiring scheme for all punch downs.
- **Copper Cable Routing:** All copper cabling will be home runs to the closest IDF/MDF as marked on Appendix A.
- **Fiber Cabling Specs:** New fiber cabling being installed must be Single Mode OS2, 6 Strand, plenum-rated, armored fiber.
 - All fiber must use the TIA-598 fiber color code standard
- **Cable Protection & Management:** Do not kink or knot cables. All copper cabling must maintain a minimum bend radius of 4 times the cable's outer diameter.

- Vendor will not exceed 25 lbs of pulling tension to avoid stretching copper pairs.
- Vendor will dress and manage cables using Velcro.
- EMT conduit will be required when cabling is run in any exposed areas.
- All penetrations through walls or floors must be sleeved and fire-stopped.
- J-hooks (or existing J-hooks / cable trays) will be required when running cables above ceiling tiles to avoid cabling being laid directly across tiles.
- **Service Loops:** 10-foot service loops will be used for each drop at all termination endpoints.
- **Ceiling Mounted Access Points:** Termination points above ceiling tiles where APs will be mounted will include 2 wiring drops each, punched down in keystones and dressed appropriately inside surface mount boxes such as **Panduit CBXQ2IW-A** (or equivalent).
 - APs will be installed between the ceiling tiles on the ceiling tile T-Rails using the provided T-Rail mount attachments.
 - For ceilings above 12ft in height, please contact WPS IT to confirm location. Wall mounting may be preferred.
- **Wall Mounted Access Points:** Vendor will run 2 wires to junction boxes in the wall and affix a surface wall faceplate beside where the AP will be mounted.
 - Faceplates should be 2-port keystone style wall plates such as **FS N2FWHLP** (or equivalent). Surface mount boxes can be used instead where required, pending coordination with WPS IT.
 - Wall-mounted APs will not exceed a height of 12 feet unless coordinated with WPS IT.
- **Access Point Placement:** Lighting structures, ducts, and other metal structures should be avoided where possible when securely mounting access points using the provided kits in locations marked on Appendix A.
- **Cable Terminations:** **ALL** CAT6A terminations and existing copper wiring re-terminations will be to specified keystone style jacks.
- **Copper Patch Panels:** Vendor is responsible for installing flat, 24-port or 48-port, 19-inch rack-mountable patch panels such as **FS Patch Panel 316985** (or equivalent). Terminations will use **FS CAT 6A Shielded Keystone 144797** (or equivalent).
- **Patch Cables:** Vendor will patch in all APs into designated switch ports provided by WPS IT using appropriate-length orange slim patch cables, such as **FS 145854** (or equivalent).
- **Fiber Patch Panels:** Vendor is responsible for installing fiber enclosure such as **Century Fiber Optic FTS-175 S/TM** (or equivalent)
 - Pre-loaded 3 position duplex adapter plate loaded w/LC sleeves.
- **Testing:** All installed links will be tested by the vendor using a cable tester to ensure specified pinout, no wiring faults or breaks, and to confirm cable length is within acceptable specifications.
- **Labeling:** All labeling must be machine-printed labels that follow Worcester Public Schools Network Operation Team's specifications.
- **Network Equipment Removal:** Any necessary removal of racked networking equipment will be coordinated with WPS IT beforehand.
- **Network Cabinet:** Vendor will install a new **Legrand Middle Atlantic EWR-8-22SD** network cabinet in the basement IDF Room 010.
 - Securely mount the network cabinet in the location designated in Appendix A, adhering to all manufacturer-specified installation techniques.
 - Install the network cabinet with the door pivoting on the left-hand side (opening from the right)

Hardware

Below is a list of all hardware and components previously mentioned in this specification. Products quoted must be as specified or equivalent. If any equivalent hardware or components will be used, please list those in your quote(s).

Wireless Access Points - Provided by WPS IT - DO NOT QUOTE

Surface mount box - **Panduit CBXQ2IW-A**

Wall Faceplate - **FS N2FWHLP**

Copper Patch Panels - **FS Patch Panel 316985**

Copper Keystones - **FS CAT 6A Shielded Keystone 144797**

Patch Cables - **FS 145854**

Fiber Enclosure - **Century Fiber Optic FTS-175 S/TM**

Network Cabinet - **Legrand Middle Atlantic EWR-8-22SD**

Labeling

Vendor is responsible for labeling all cabling jackets at each end, within a foot of termination. Vendor will also label all surface mount boxes / wall faceplates per each wiring drop. Labeling format for these components will be as follows:

- [IDF/MDF Room #] - [Patch Panel ID] - [Patch Panel Port #] (e.g., 101-A-01).

All copper patch panels and copper patch panel ports will be labeled by vendor. Labeling format for these components will be as follows:

- Patch panels - [IDF/MDF Room #] - [Panel ID] (e.g., 101-A)
- Patch panel ports - [Wiring Drop Room #] - [Patch Panel ID and Patch Panel Port #] (e.g., 201-A01)

All access points will be labeled by vendor. Labeling for these components will be as follows:

- [DAB] - [AP #] (e.g., DAB-001)

All fiber enclosures will be labeled by vendor. Labeling in the MDF will be applied to cassettes. Labeling in IDF will be applied to front enclosure screen. Labeling for these components will be as follows:

- MDF termination - [IDF-Room #] (e.g., IDF-101)
- IDF termination - [6 STRANDS OF SM TO MDF]

Labeling document to be provided to WPS must be in the format below:

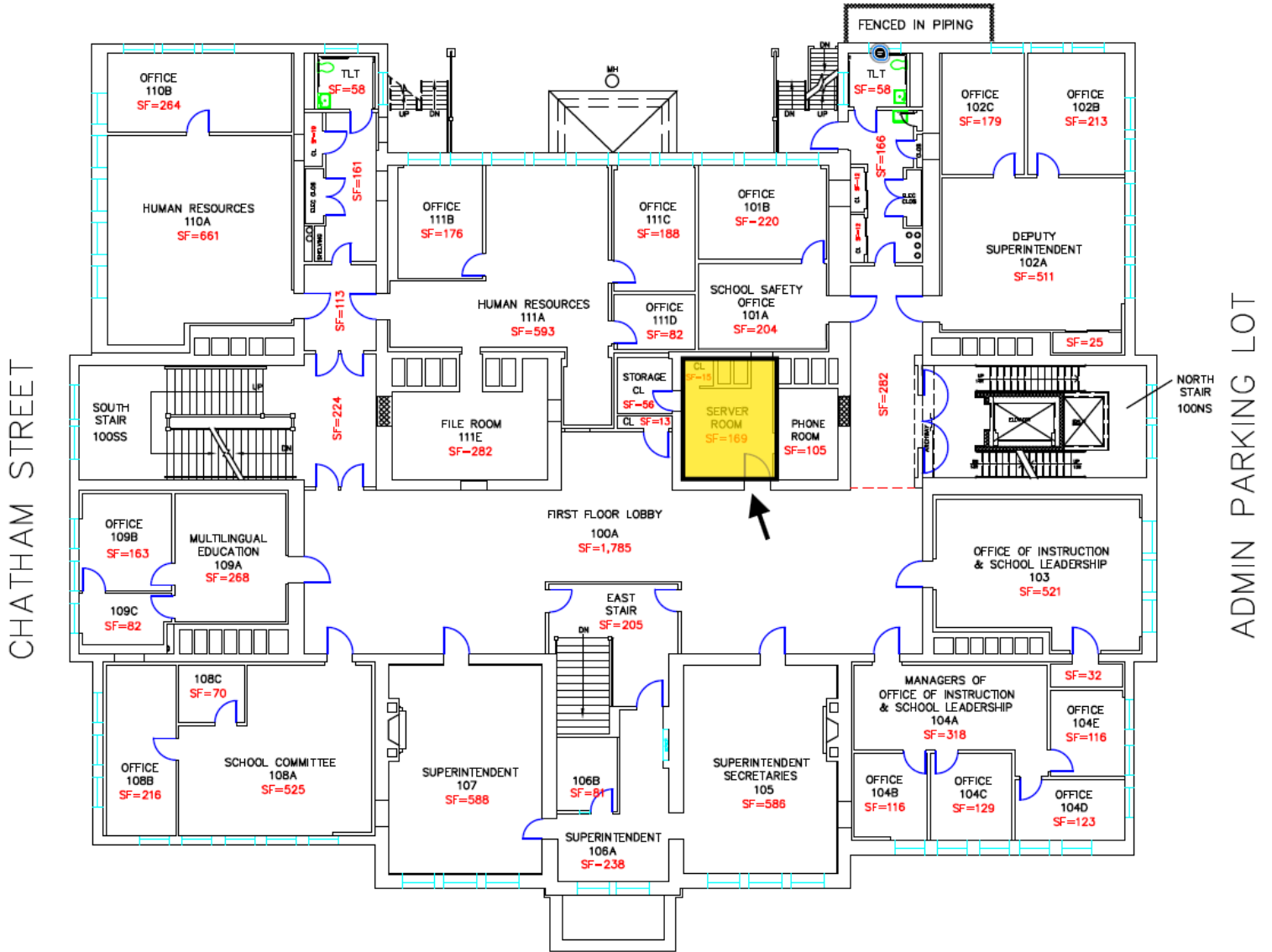
Patch Panel Label	Wall Jack Label
201-A01	101-A-01
201-A02	101-A-02

Appendix A

- Plan:
 - Phase A: Install CAT 6A wiring for all ceiling mounted / wall mounted wireless access points. All cabling must home run to the closest IDF/MDF as labeled on the provided maps in this appendix. Installation of surface mount boxes, wall faceplates, and patch panels as required. All IDFs/MDF and AP mounting / CAT6A wiring locations will be marked on maps below.
 - Phase B: Re-termination of existing copper wiring to new keystone based patch panels. Re-termination of existing wall faceplates / wall jacks as predetermined by WPS IT. Installation of new 8U network cabinet in basement IDF Room 010 in location marked in this appendix. Locations for each IDF/MDF are detailed and marked on maps below.
 - Phase C: Installation of new OS2 SM armored fiber wiring between MDF/IDF locations. Installation of new SM fiber enclosures in each IDF and MDF. Locations for each are detailed and marked on maps below.
- MDF:
 - 1st floor in server room closet, central to building, across from east staircase, highlighted in yellow.
- IDFs:
 - 3rd floor, room 308A, southeast corner of building, highlighted in blue
 - Basement floor, Digital Document Center room 010, northeast corner of building, highlighted in blue

MDF

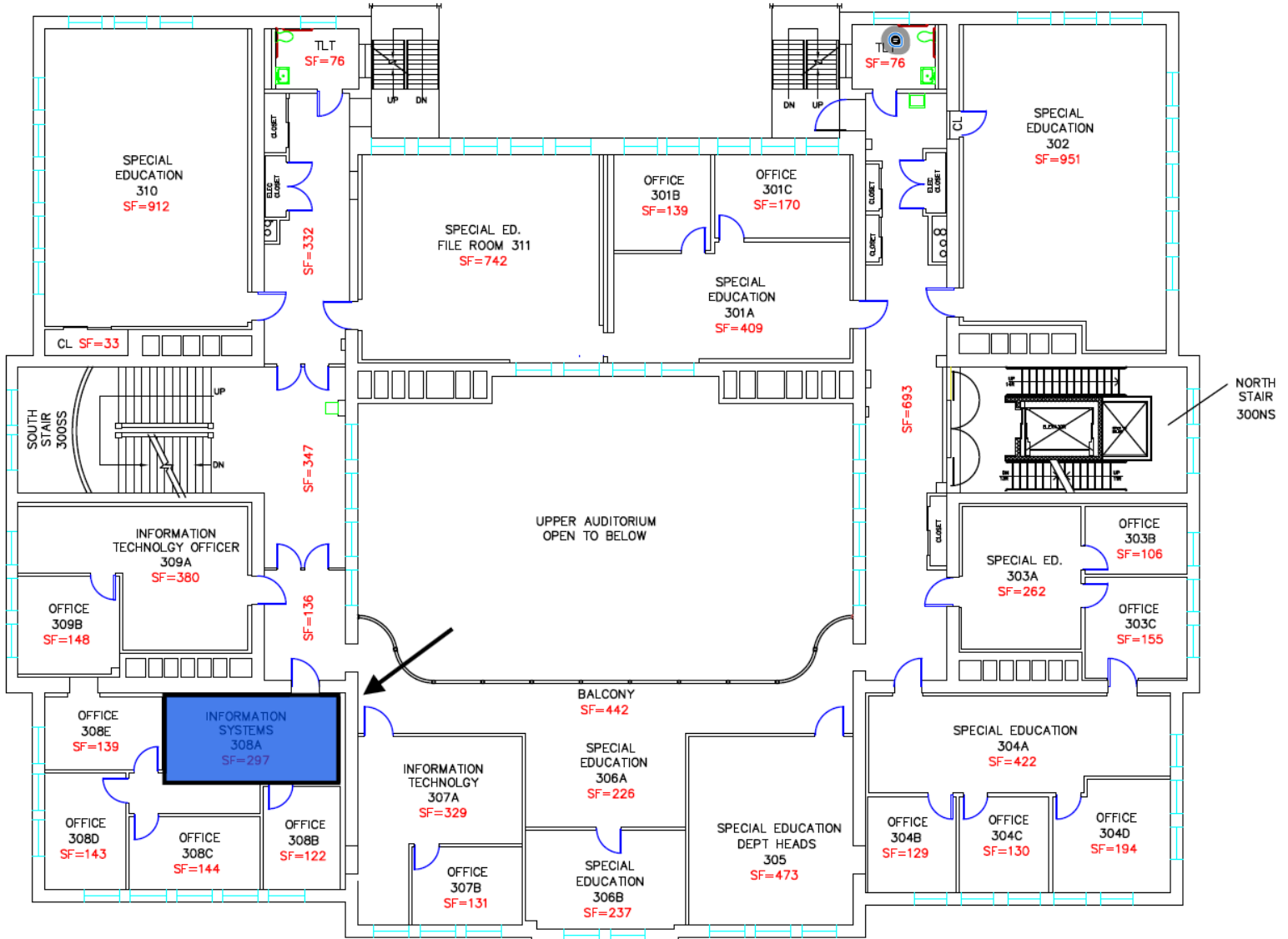
ALLEY WAY



IRVING STREET
DURKIN ADMIN 1ST FLOOR

PERIMETER OF BUILDING SF=15,020

Room 308 IDF



DURKIN ADMIN 3RD FLOOR

PERIMETER OF BUILDING SF=14,988

Room 010 IDF

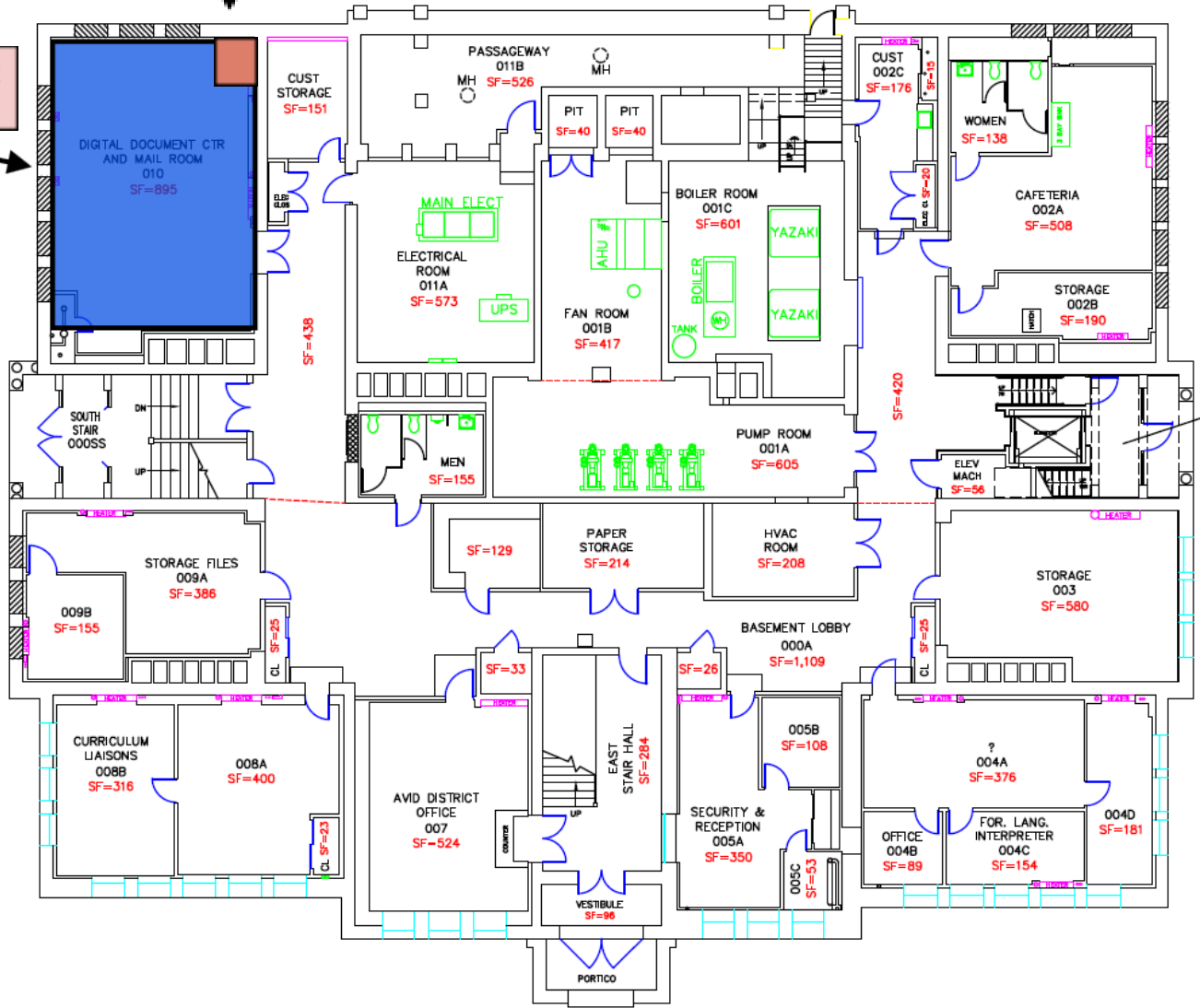
Network Cabinet Installation Location (in red)

IDF Basement Floor

ALLEY WAY

CHATHAM STREET

ADMIN. PARKING LOT



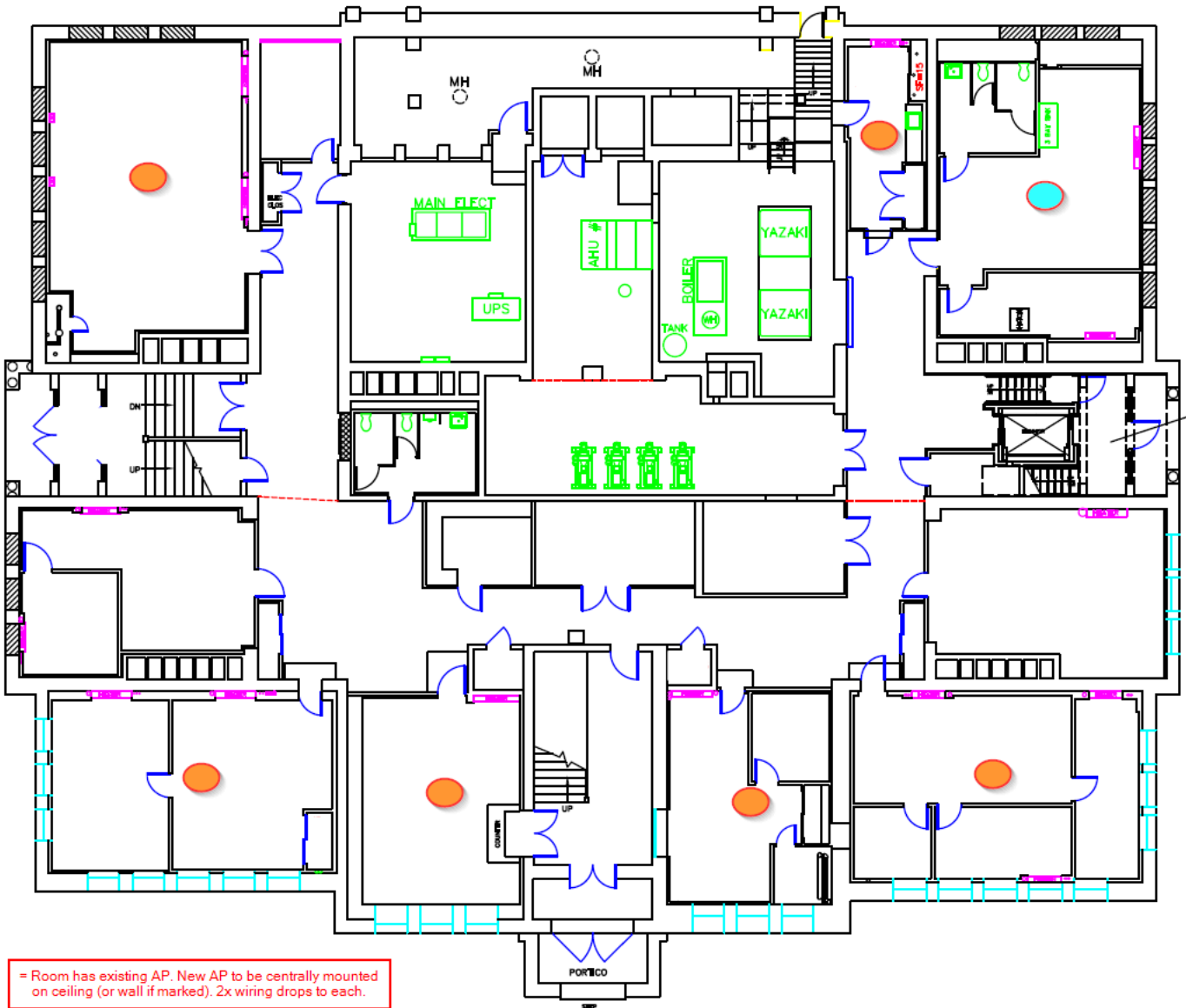
AP / Wiring Drop Locations Basement


ALLEY WAY


CHATHAM STREET

ADMIN. PARKING LOT

NORTH STAR DOONS



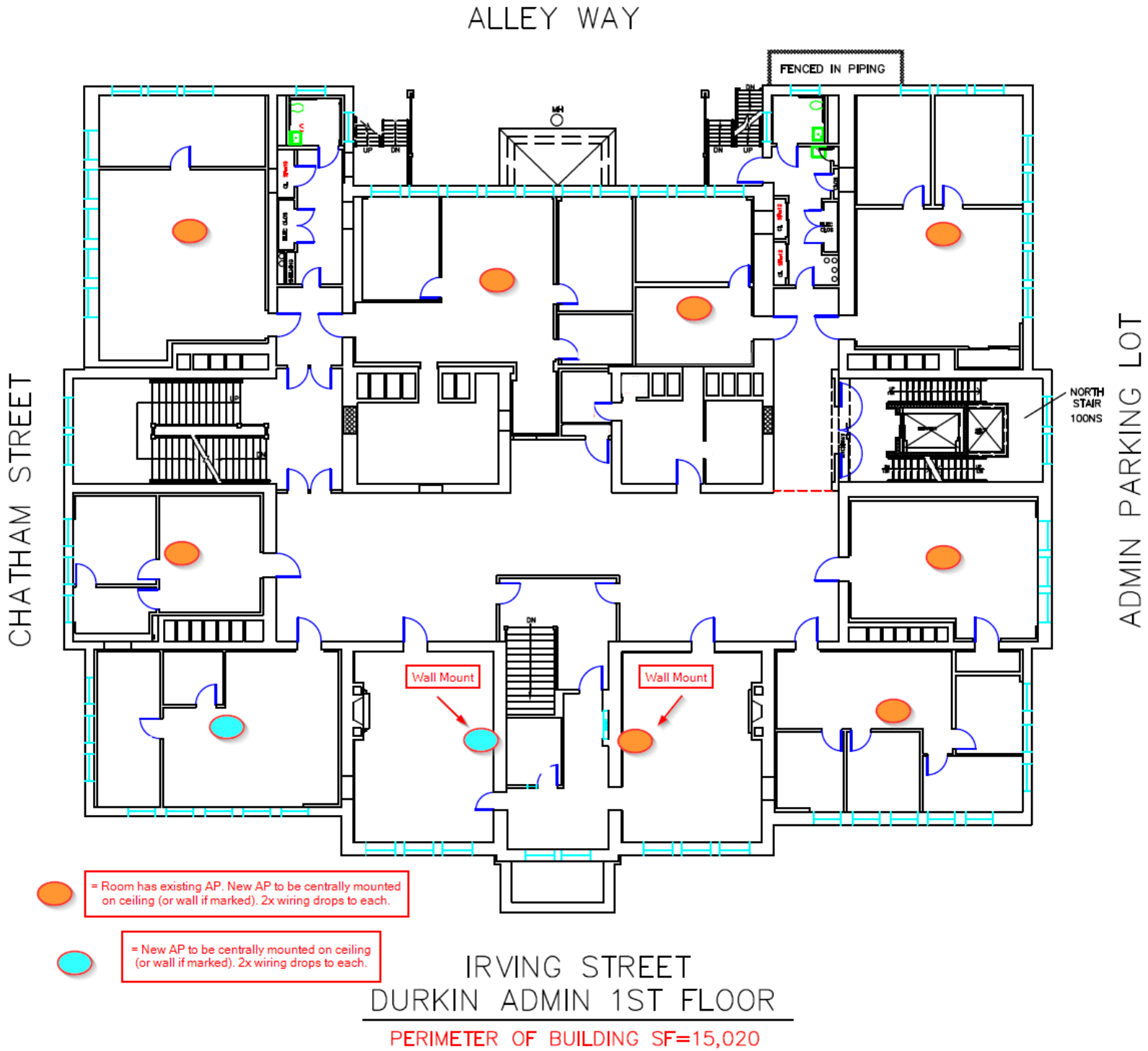
 = Room has existing AP. New AP to be centrally mounted on ceiling (or wall if marked). 2x wiring drops to each.

 = New AP to be centrally mounted on ceiling (or wall if marked). 2x wiring drops to each.

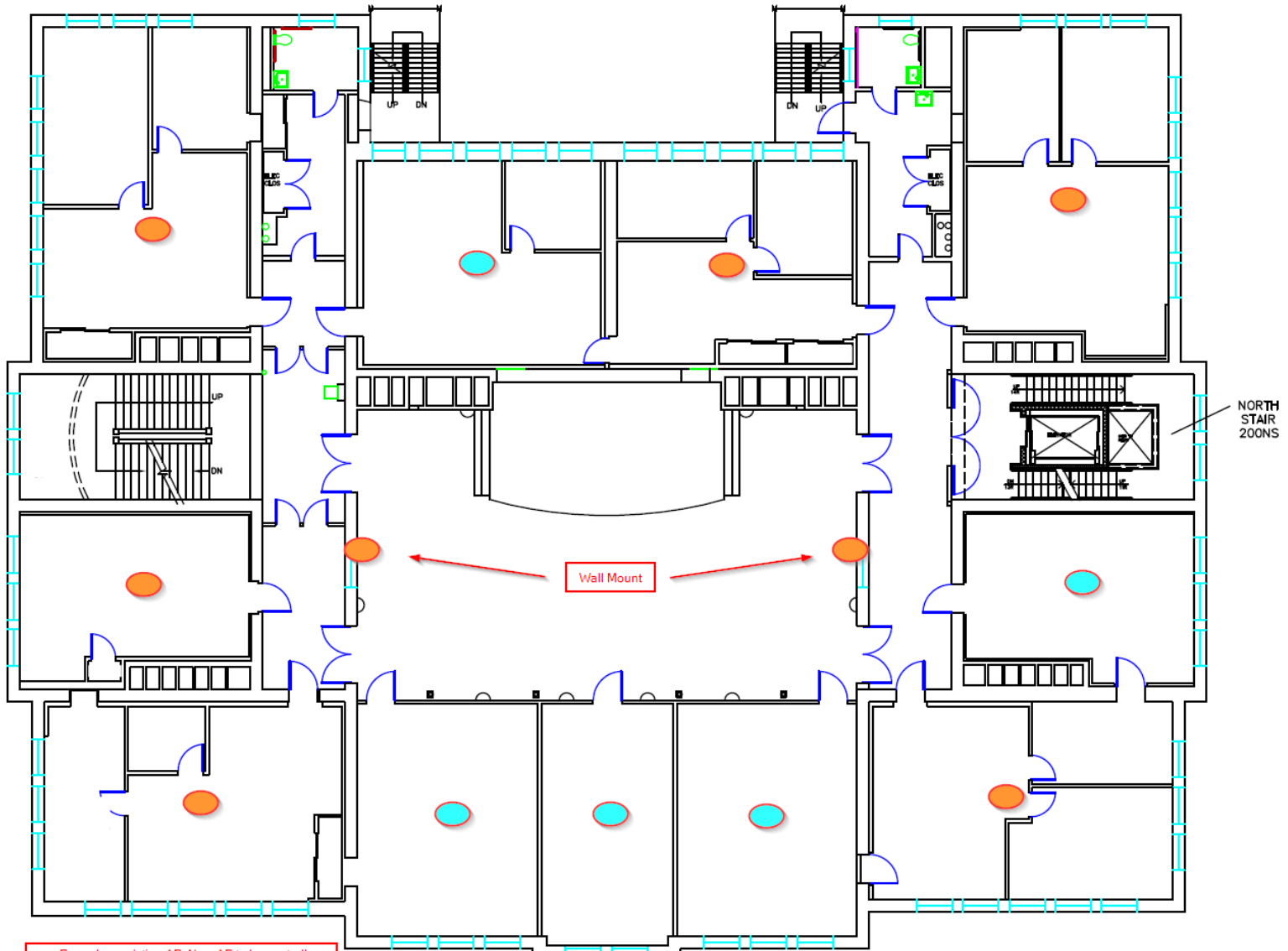
IRVING STREET
DURKIN ADMIN BASEMENT

PERIMETER OF BUILDING SF=16,272

AP / Wiring Drop Locations 1st Floor



AP / Wiring Drop Locations 2nd Floor



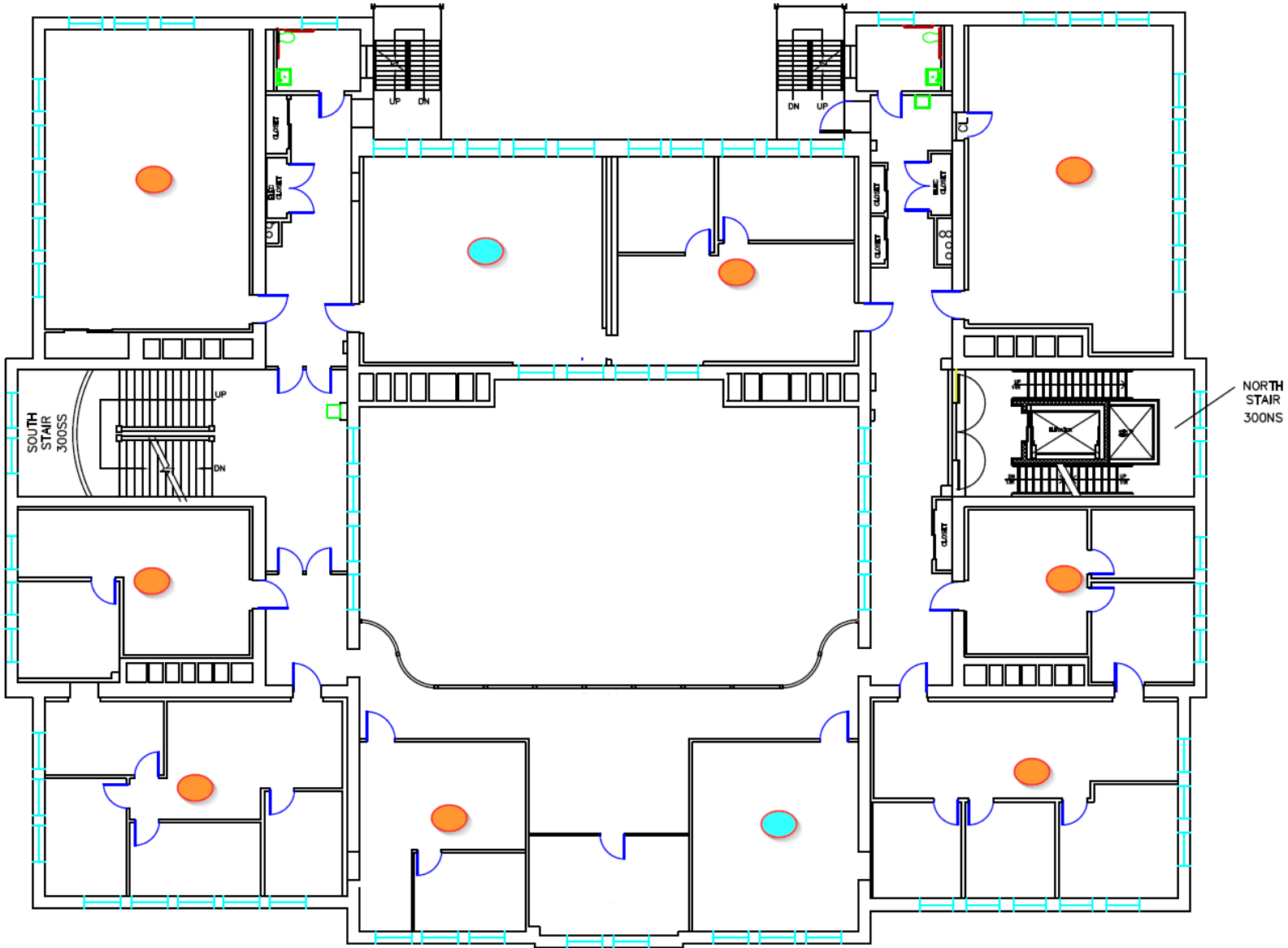
● = Room has existing AP. New AP to be centrally mounted on ceiling (or wall if marked). 2x wiring drops to each.

● = New AP to be centrally mounted on ceiling (or wall if marked). 2x wiring drops to each.

DURKIN ADMIN 2ND FLOOR

PERIMETER OF BUILDING SF=14,935

AP / Wiring Drop Locations 3rd Floor

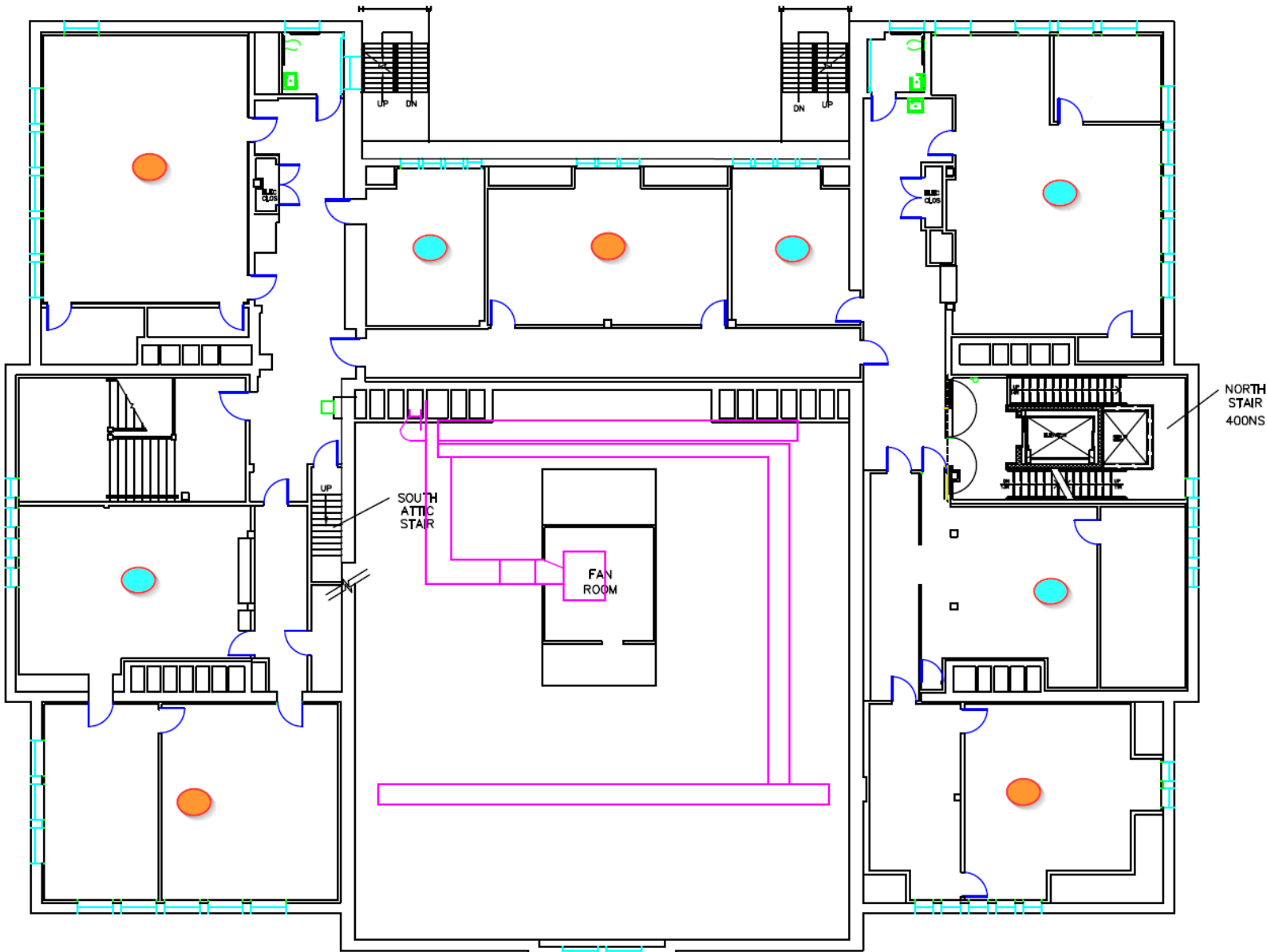


- = Room has existing AP. New AP to be centrally mounted on ceiling (or wall if marked). 2x wiring drops to each.
- = New AP to be centrally mounted on ceiling (or wall if marked). 2x wiring drops to each.


DURKIN ADMIN 3RD FLOOR

PERIMETER OF BUILDING SF=14,988

AP / Wiring Drop Locations 4th Floor



 = Room has existing AP. New AP to be centrally mounted on ceiling (or wall if marked). 2x wiring drops to each.

 = New AP to be centrally mounted on ceiling (or wall if marked). 2x wiring drops to each.

DURKIN ADMIN 4TH FLOOR

PERIMETER OF BUILDING SF=14,937