

BILOXI PUBLIC SCHOOL DISTRICT



Structured Cabling

*Request for Proposals
E-Rate 2015-2016 - Internal Connections*

Submit Proposals To:

Purchasing Department
Attn: Kassie Bourque
160 St. Peter Street
Biloxi, MS 39530
or Bids@biloxischools.net



REQUEST FOR PROPOSALS (RFP)

Biloxi Public Schools (BPS) is seeking proposals to engage a contractor to submit proposals for installation of structured cabling at each of our 8 school locations.

- This RFP is for labor, material and installation of structured cabling.
- The purchase of this item is dependent upon the Biloxi School District receiving approval through the Federal E-Rate program. No purchase will be approved before such approval is received and no purchase will be made without such approval.
- The project will be scheduled at a time that does not interfere with instruction, (e.g., summer break, spring break, non-instructional time)
- The use of brand name specifications or vendor specific part numbers is to provide prospective vendors with product standards and/or guidelines for equipment needed; all equipment meeting or exceeding the brand name specifications will be given equal consideration. Any substitution must be approved by the Biloxi Schools Technology Department in advance.
- Biloxi Public Schools will review all responsive proposals and determine the successful proposal based on the fee proposed and your equipment's ability to meet or exceed the minimum specs.
- All data found in this RFP and associated documents are considered to be confidential information. Further, data gathered as a result of meetings and walk-through visits is considered to be confidential information. This confidential information shall not be distributed outside of organizations directly related to the contractor without expressed, written approval. Further, all data submitted by prospected contractors will be treated as confidential and proprietary; it will not be shared outside the vendor-evaluation committee.
- Bids will include costs of configuration, installation, maintenance and one year of service or warranty. The Biloxi School District reserves the right to reject any and all features, of any and all bids, if it should prove too cumbersome or too costly for our foreseeable needs.
- The RFP is dependent on E-Rate funding or Biloxi School Board of Trustees approval, if E-Rate funding appears unlikely.

Bid Submittals:

1. Each bid is to list all labor, material, and hardware costs (where applicable) in an itemized fashion. The detail is to include itemized unit pricing, cost per unit, and extended prices for each of the material and hardware components as well as the specific labor functions.
2. There is also to be a scope of work provided that details all of the functions to be provided by the contractor for the project.
3. Bids will be submitted to:

Purchasing Department
Attn: Kassie Bourque
160 St. Peter Street
Biloxi, MS 39530 or
Bids@biloxischools.net

Requirements for Submission:

- Signed "Requirements for Submission" page.
- Total bid will include pricing breakdown per campus and total bid pricing will equal the sum total of all campus pricing.
- A **mandatory campus walk through** will be held with Mike Jennings and Kassie Bourque on January 28, 2015. Please see Mandatory Walkthrough Schedule for times and locations. If you cannot have a representative of your company attend this walk through, you must contact Mike Jennings prior to January 28, 2015 to schedule an alternative time and date to visit the campus.
- This project is based on receipt of E-Rate funding. Vendor agrees to all E-Rate requirements, invoicing, and payment terms.
- BPS is seeking a multi-year agreement, up to 36 months, to allow for the E-Rate funding process.
- Vendors must be a certified partner with the manufacturer.
- Bids must include warranty for one year after installation.
- All parts and materials must be new (not remanufactured or reused) and in the original manufacturer's packaging.
- Each firm will submit two itemized bids:
 - The first will contain listing of parts that are eligible under E-Rate.
 - The second will be everything that is ineligible. Each firm is required to ascertain what is and is not eligible.
- All bids must be received by 2:00 PM on **February 13, 2015**.
- Bids must include all necessary related equipment to include but not limited to cabling, patch panels, raceway, termination boxes, licensing, shipping, delivery, etc.
- Only the Nichols School will have fiber optic cabling installed.
- A 3' category 6 patch cable will be provided for each drop installed.
- I understand that BPS may remove the Nichols and/or Lopez sites from implementation based on the status of these schools at project commencement date.

Having examined the specifications of the items described on the attached pages, my firm agrees that if my bid is accepted by the School Board, my firm will accept an order at the prices bid and these prices will remain in effect until the order is complete. Prices bid are on items as specified or of equal quality, unless so indicated. I understand that I may be required to remove items delivered to the school district at my cost and refund the cost of said items, if they do not meet specifications. I agree that, if I am the winning bidder, I will not submit invoices or request payment until the order is complete.

Signature

Company

Name (Typed or Printed) & Title

Street or P.O. Box

Phone Number

City, State, Zip

Fax Number

Email address

Scope of Work:

The contractor shall furnish all labor, tools, equipment, and reasonable incidental services necessary to install new cable plant to support a wireless infrastructure. This is to include, but is not necessarily limited to, faceplates, modular jacks, connectors, data patch panels, equipment racks, cables, and fiber optics.

Work shall include all components for both horizontal and riser data cable plant from access point outlet termination to wire-room terminations. All cable-plant components, such as outlets, wiring-termination blocks, racks, patch cables, etc., will be furnished, installed, and tested by this contractor. The data cable plant is designed to support a 1000Mbps Ethernet computer network. The new cable will not disturb any existing Ethernet or Instructional Television (ITV) cable plant.

All riser and horizontal cable plant, patch panels and patch cables will be Cat6a rated and certified. The structured cable will be solid core and all cable terminations will conform to 568-B termination standards.

The scope of work includes all activities needed to complete the wiring described in this document. Drawings that specify room numbers and wall plate locations will be made available during the mandatory walk-through.

Cable Plant:

1. All cabling will be a homerun to the nearest MDF or IDF (no splices will be allowed).
2. Cabling will be terminated to a new patch panel on the MDF/IDF side and to a cable termination box and outlet on the equipment end.
3. Horizontal cable should never be open but rather run through walls or be installed in raceway if the cable cannot be installed in walls.
4. The contractor is responsible for pulling, terminating, and testing all circuits being installed.
5. The horizontal cable for the data network will be riser, twisted-pair wire specified as Category 6 by the ANSI/TIA/EIA-568-B Standard and shall be UL-listed and verified.
6. Testing for the distribution components will comply with ANSI/TIA/EIA-568-B Category 6 specifications and will certify 100 percent functionality of all conductors. All circuits must be tested and found in compliance. All testing results will be provided to customer in an electronic format.
7. Each cable will be assigned and labeled with a unique cable identifier within 6 inches of the point of termination.
8. Each MDF/IDF cable termination will be identified and labeled at the patch panel.
9. Each equipment end termination will be identified and labeled to identify the MDF/IDF room number, rack number, patch panel and port on the patch panel.
10. Contractor will provide BPS with a laminated hard copy and electronic copy of cable termination documentation to include a campus map with equipment termination points labeled and a cross reference to indicate the corresponding MDF/IDF, rack, patch panel and port on the patch panel of the termination.

Fire-Code Compliance:

All cabling installed in the riser and horizontal distribution shall meet or exceed all local fire codes.

Wiring Pathways:

The following are related to the installation of cable in the ceiling and other cable pathways:

1. The methods used to run cable through walls, ceilings, and floor will be subject to all state and local safety code and fire regulations. The contractor assumes all responsibility for ensuring that these regulations are observed.
2. Cables will be routed behind walls wherever possible. The use of surface-mount raceway will be discussed and approved by BPS, before being installed.
3. New cables will be independently supported using horizontal ladders or other wire suspension techniques. Cables will not be allowed to lie on ceiling tiles or attached to electrical conduit.
4. System layout will restrict excessive cable lengths; therefore, routing of horizontal cables will be in a manner as not to exceed 90 meters from device plate to patch panel located in the assigned wiring room. Each cable will be a home-run directly from its patch panel to the wall plate.
5. Cables will be terminated at the rear of the patch panel within the wiring rooms and at the wall plates only. There will be no splicing of any cables installed.

Wiring Identification:

All cables, wall jacks, and patch-panel ports shall be properly labeled as described below. Each cable end must be identified within six inches from the termination point.

1. Telecommunications Rooms

The following are related to the installation of the telecommunications (MDF/IDF) rooms:

- a. The rooms to be used as the originating points for network cables that home-run to the room outlets are referred to as MDF/IDFs or telecommunications rooms. All racks and their exact locations will be confirmed during the mandatory walk-through; their locations are specified on the drawings that will be provided during the initial walkthrough.
- b. Rack layout should provide enough space to accommodate the cabling, equipment racks, patch panels, and network-control equipment, as required. Additionally, the locations should provide for convenient access by operational personnel.
- c. All racks are to be configured as shown by the diagram provided during the initial walkthrough.
- d. All racks, panels, and enclosures for mounting equipment shall meet the 19-inch EIA mounting-width specifications. Each equipment rack should include two 19-inch rack shelves that can support the weight of a 50-pound uninterruptible power supply.
- e. Equipment racks must be properly attached to the floor and supporting wall by means of a horizontal-rack bracket mount. All equipment racks must have a six-outlet 20-amp power strip surge protector installed inside.

2. Cable Management

The following relates to cable management in the telecommunications rooms:

- a. The contractor is required to install cable management on all racks installed. Cable management is to consist of horizontal management between each panel and vertical management on the sides of the rack.
- b. All cable management is to be of the "base-and-cover" style. Cable management is to be provided for the front of the rack only.

As-Built Diagrams:

Contractor will provide as-built documentation within 15 days of completion of the project.

These prints will include outlet locations, outlet numbers, trunk-cable routing, and legends for all symbols.

Mandatory Walkthrough Schedule

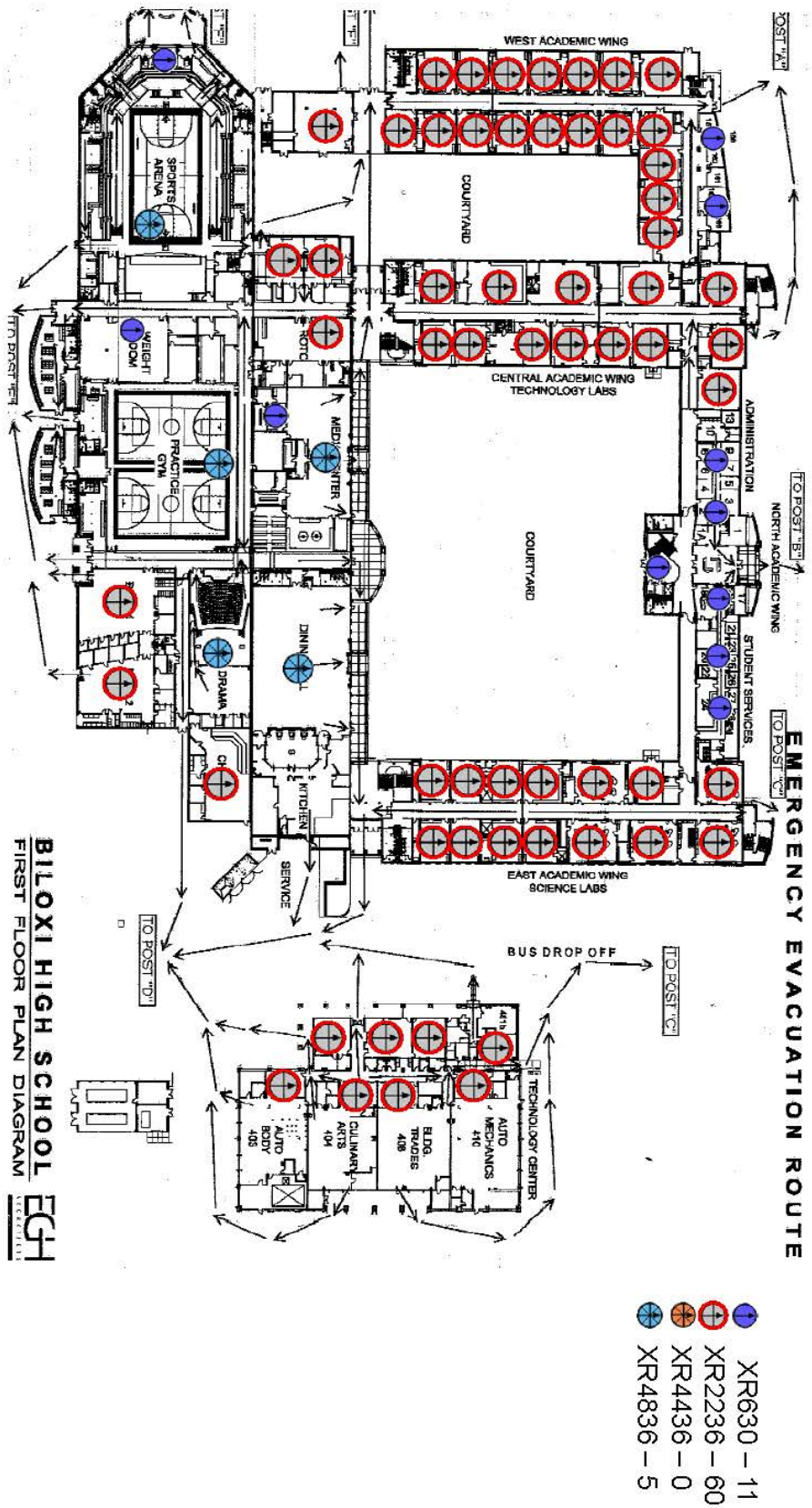
CAMPUS	ADDRESS	TIME
Gorenflo Elementary	771 Elder Street	8:30 AM
Nichols School	590 Division Street	9:30 AM
Biloxi Junior High	1424 Father Ryan Avenue	10:30 AM
Lopez School	140 St. John Avenue	1:00 PM
Jeff Davis	340 St. Mary Boulevard	2:00 PM
Popp's Ferry Elementary	364 Nelson Road	3:00 PM
North Bay Elementary	1825 Popp's Ferry Road	4:00 PM
Biloxi High School	1845 Richard Drive	5:00 PM

Campuses To Be Bid:

- Biloxi High School**
1845 Richard Drive
Biloxi, MS 39532

DEVICE	DEVICE COUNT	DROPS PER DEVICE	TOTAL DROPS PER DEVICE
XR630	11	1	11
XR2236	123	2	246
XR4836	5	2	10
		TOTAL DROPS	267

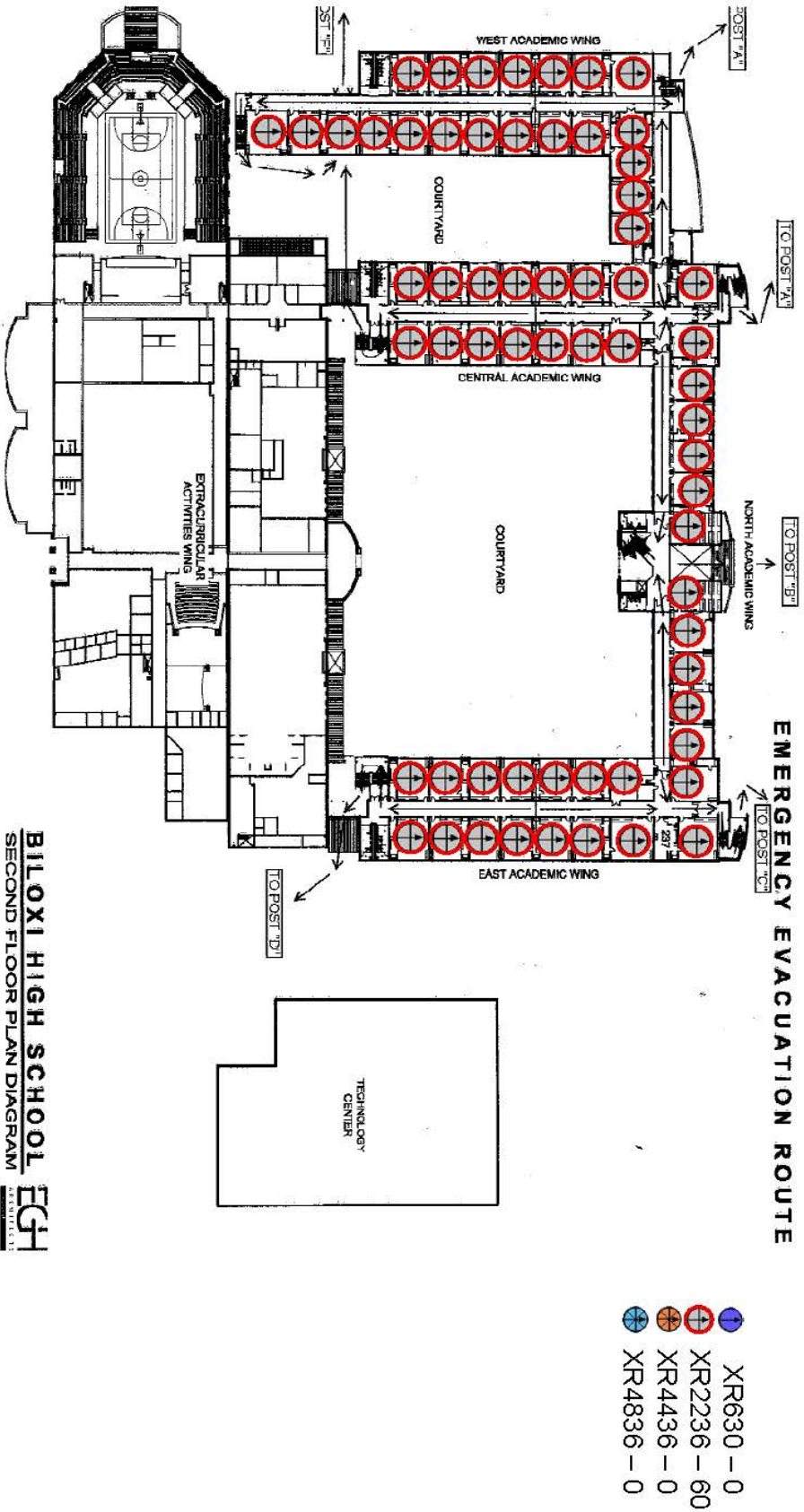
BILOXI HIGH SCHOOL – 1ST FLOOR



BILOXI HIGH SCHOOL
FIRST FLOOR PLAN DIAGRAM

EGH

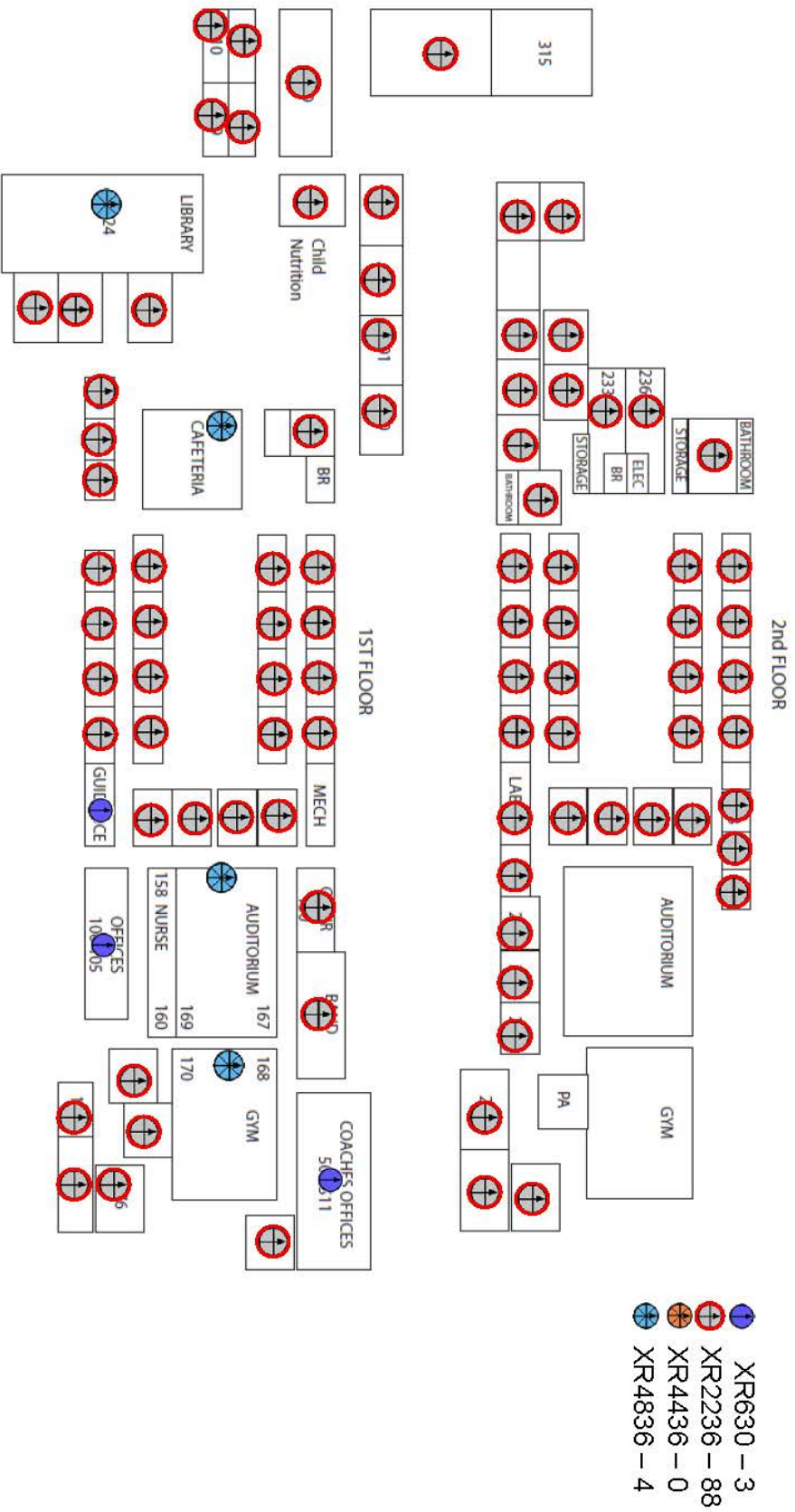
BILOXI HIGH SCHOOL – 2ND FLOOR



2. Biloxi Junior High School
1424 Father Ryan Avenue
Biloxi, MS 39530

DEVICE	DEVICE COUNT	DROPS PER DEVICE	TOTAL DROPS PER DEVICE
XR630	3	1	3
XR2236	88	2	176
XR4836	5	2	10
		TOTAL DROPS	189

BILOXI JUNIOR HIGH

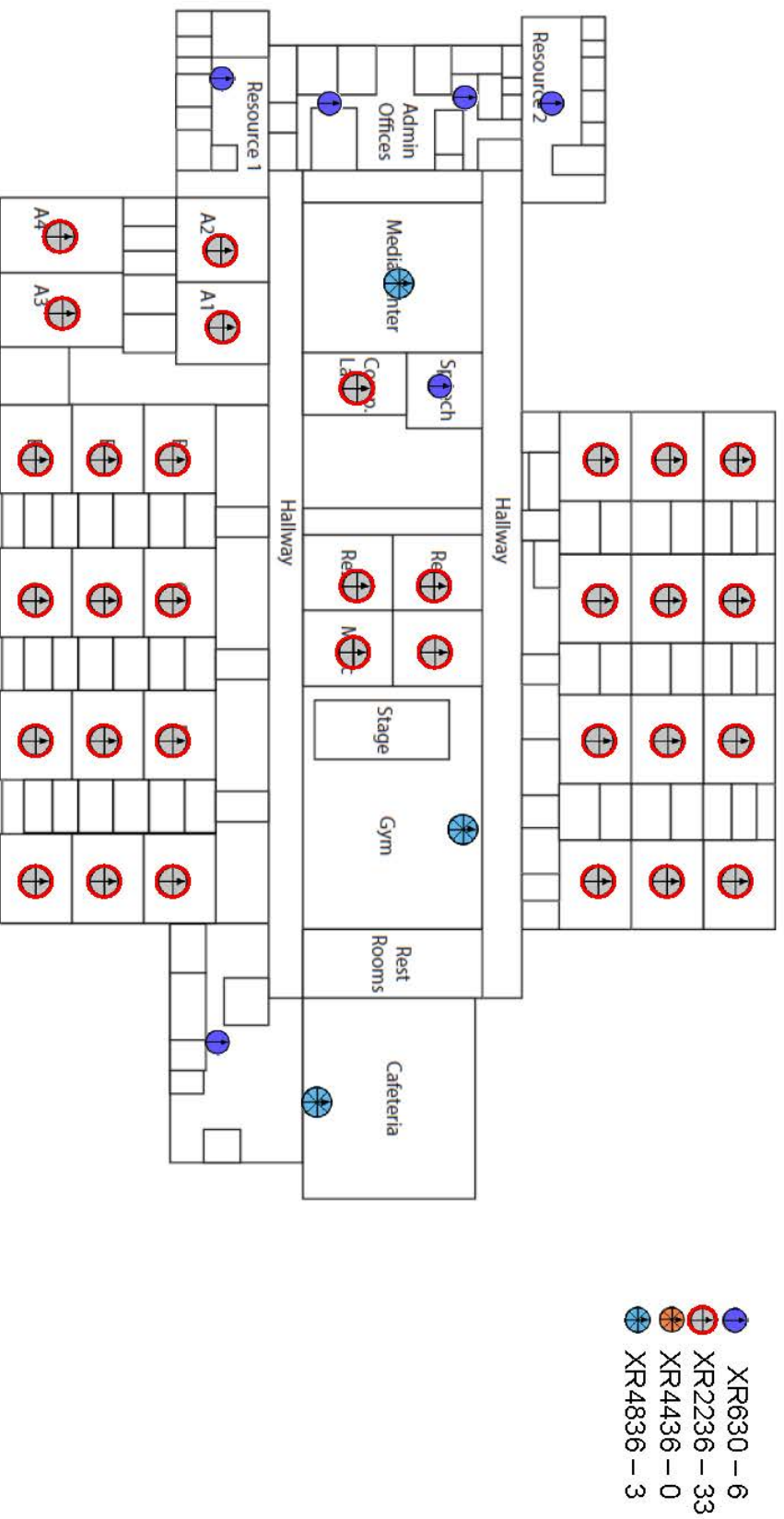


3. Gorenflo Elementary

771 Elder Street
Biloxi, MS 39530

DEVICE	DEVICE COUNT	DROPS PER DEVICE	TOTAL DROPS PER DEVICE
XR630	6	1	6
XR2236	33	2	66
XR4836	3	2	6
		TOTAL DROPS	78

GORENFLO ELEMENTARY SCHOOL



4. Jeff Davis Elementary
340 St. Mary Boulevard
Biloxi, MS 39530

DEVICE	DEVICE COUNT	DROPS PER DEVICE	TOTAL DROPS PER DEVICE
XR630	3	1	6
XR2236	44	2	88
XR4836	3	2	6
		TOTAL DROPS	100



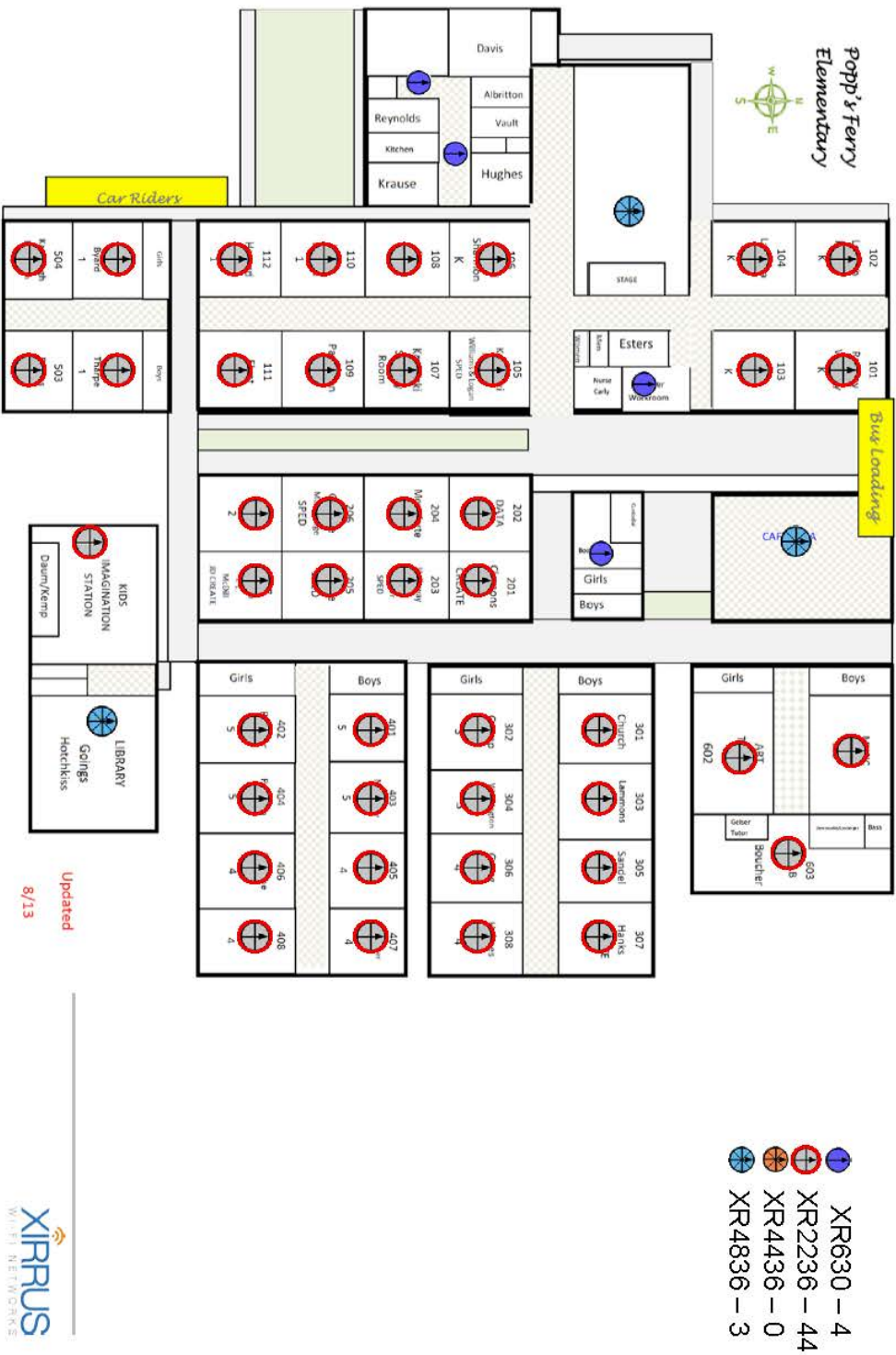
5. Popp's Ferry Elementary

364 Nelson Road

Biloxi, MS 39531

DEVICE	DEVICE COUNT	DROPS PER DEVICE	TOTAL DROPS PER DEVICE
XR630	4	1	8
XR2236	44	2	88
XR4836	3	2	6
		TOTAL DROPS	102

POPP'S FERRY ELEMENTARY SCHOOL

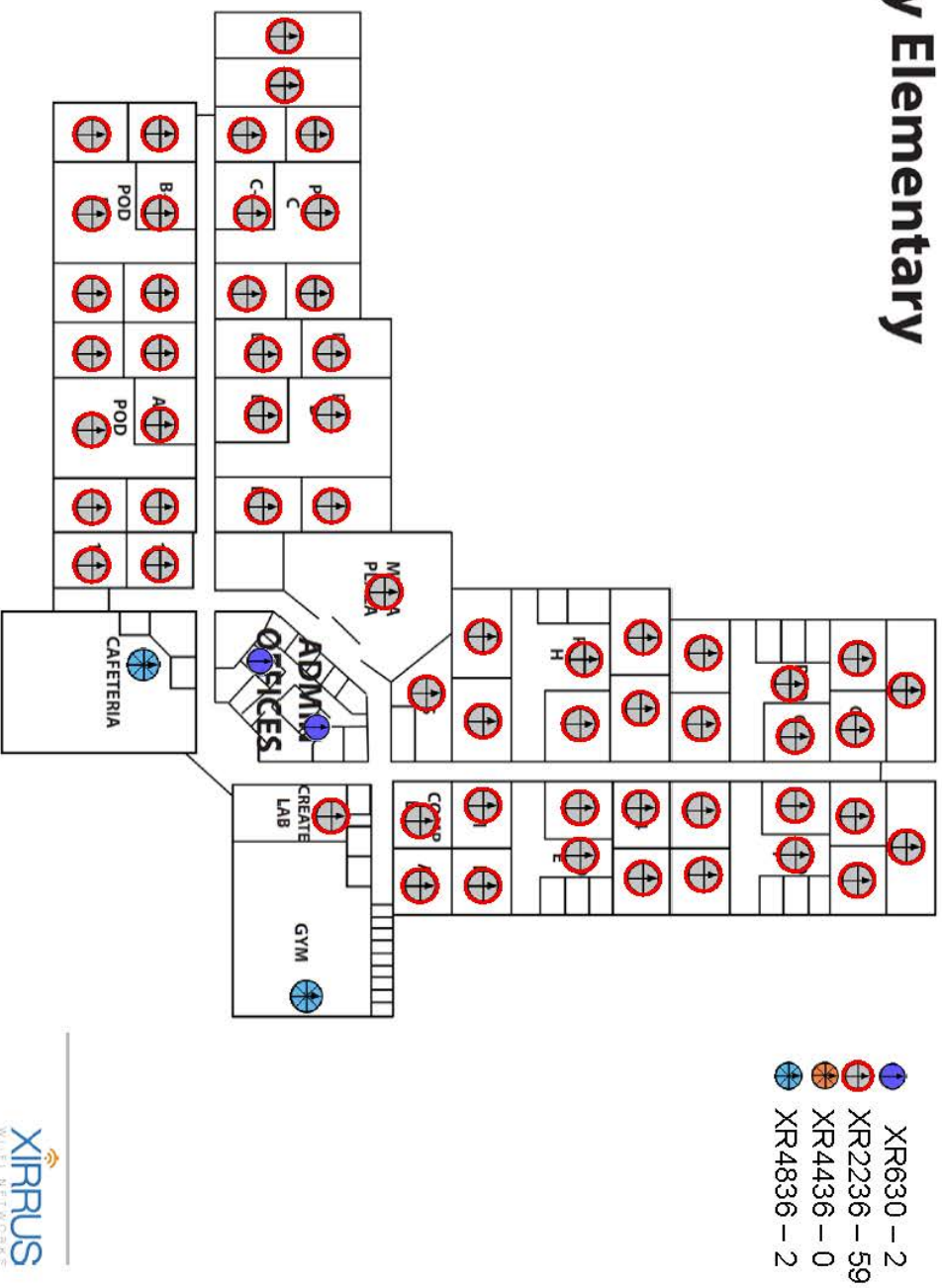


6. North Bay Elementary
1825 Popp's Ferry Road
Biloxi, MS 39530

DEVICE	DEVICE COUNT	DROPS PER DEVICE	TOTAL DROPS PER DEVICE
XR630	2	1	2
XR2236	59	2	118
XR4836	2	2	4
		TOTAL DROPS	124

NORTH BAY ELEMENTARY SCHOOL

North Bay Elementary



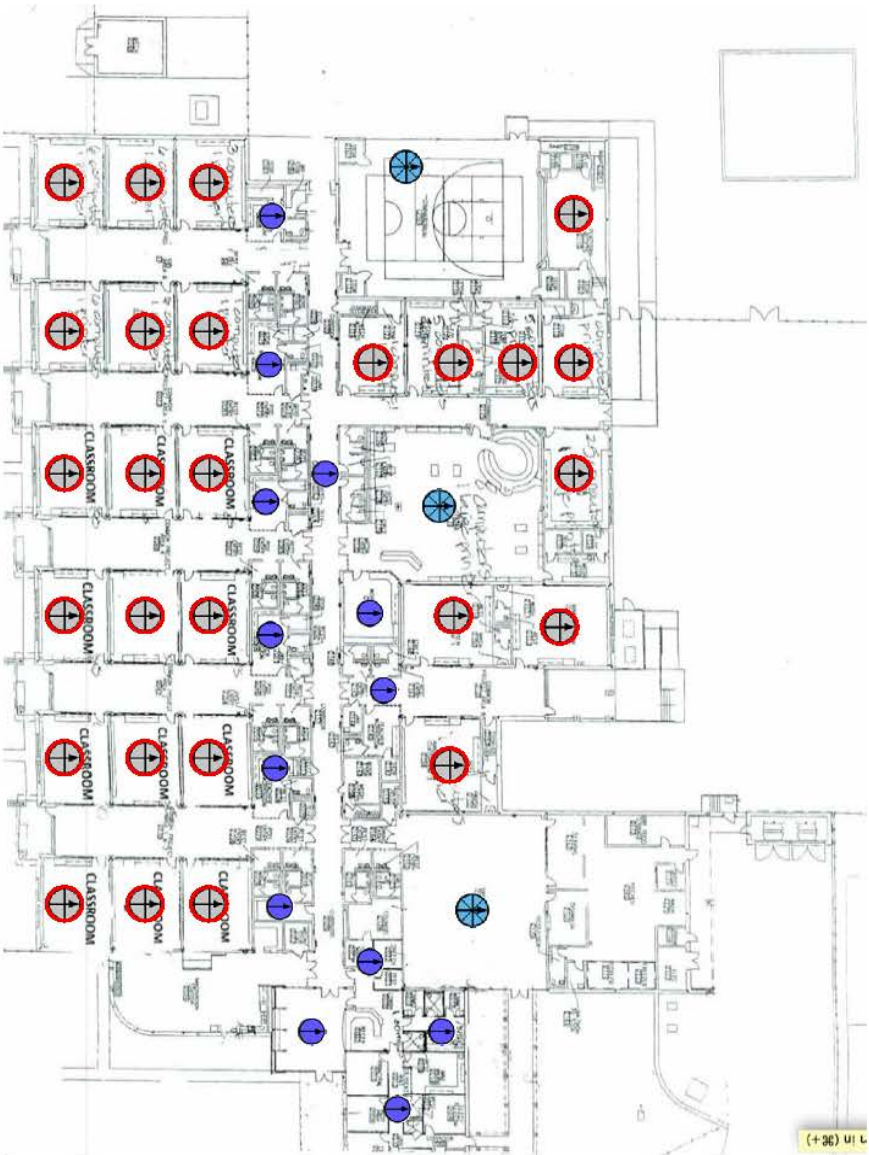
7. Nichols School

590 Division Street
Biloxi, MS 39530

- 12 strand fiber optic cables will be homerun from the MDF to all IDF wiring closets. All strands will be terminated on both ends and certified.
- The fiber optic cable will be installed in protective conduit or armored fiber optic cabling will be used.

DEVICE	DEVICE COUNT	DROPS PER DEVICE	TOTAL DROPS PER DEVICE
XR630	13	1	13
XR2236	27	2	54
XR4836	3	2	6
		TOTAL DROPS	73

NICHOLS ELEMENTARY SCHOOL



- XR630 - 13
- XR2236 - 27
- XR4436 - 0
- XR4836 - 3

8. Lopez School

140 St. John Avenue
Biloxi, MS 39530

DEVICE	DEVICE COUNT	DROPS PER DEVICE	TOTAL DROPS PER DEVICE
XR630	3	1	3
XR2236	26	2	52
XR4836	2	2	4
		TOTAL DROPS	59

LOPEZ SCHOOL

