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<p>BUILDING SUMMARY</p> <p>Project Name: Nanuet Bond Projects, Phase 4 Address: 143 Church St, Nanuet, NY 10954 Usage: Educational Owner Contact: Rudolph Villanyi Phone: 845-627-9882 Fire District: Nanuet Fire District Fire Extinguishing System: No Type: N/A</p> <p>Code Standards: Building Code of New York State (2020) State Department of Education (SED) Manual of Planning Standards (2022)</p> <p>Building Information: A, Mac Arthur Barr Middle School</p> <p>Existing Building: Year: 1964 (Original), 2005(Addition 1) Construction Type: IIB Level 2 Alteration</p> <p>Occupancy: E - Educational Stories: 2 Existing Building Total Area: 123,050 SF Fire Areas: See Plans Room Use Designations: See Plans Egress Information: Not Required Per Scope of Project Rescue Windows: Yes-Shown Per Area of Work Fire Resistive Requirements: Table 601BCNYS Corridor Fire Resistance Rating: Per MPS & 2020 BCNYS- 1 HOUR</p> <p>BUILDING CODE ANALYSIS NOTES: THE CURRENT SCOPE OF THE PROJECT: 1. DOES NOT INCREASE THE EXISTING OCCUPANCY 2. DOES NOT ALTER EXISTING EGRESS TRAVEL PATHS, DISTANCES OR WIDTHS</p> <p>LIFE SAFETY PLAN NOTES: 1. REFER TO ELEC DWGS FOR FIRE ALARM AND EMERGENCY DEVICES</p>																																					
<p>Building Envelope Requirements ECNYS Table C402.1.3 Energy Conservation Code of New York State Climate Zone 5 (Rockland)</p> <p>Glazed Fenestration U-Factors: Table C402.4</p> <table border="1"> <tr><td>Fixed Fenestration:</td><td>U-0.38</td></tr> <tr><td>Operable Fenestration:</td><td>U-0.45</td></tr> <tr><td>Entrance Doors:</td><td>U-0.77</td></tr> <tr><td>SHGC:</td><td>U-0.38</td></tr> </table> <p>Insulation Requirements: Table C402.1.3</p> <p>Roof Insulation entirely above roof deck: R30ci Metal Building: R19 + R11 LS Attic and other: R38</p> <p>Walls (Above Grade) Mass: R11.4ci Metal Building: R13 + R13ci Metal Framed: R13 + R7.5ci</p> <p>Floors Mass: R10ci Joist/Framing: R30</p> <p>Slab on Grade Floors Unheated Slabs: R10 for 24" below</p> <p>Opaque Doors (Doors having less than 50% glass area) Swinging: U-0.61</p> <p>Table C402.5.2 Maximum Air Leakage Rate for Fenestration Assemblies</p> <table border="1"> <tr><td>Windows:</td><td>0.20 CFM/FT²</td></tr> <tr><td>Swinging Doors:</td><td>0.20 CFM/FT²</td></tr> <tr><td>Storefront Glazing:</td><td>0.60 CFM/FT²</td></tr> <tr><td>Commercial Glazed Swinging Entrance Doors:</td><td>1.00 CFM/FT²</td></tr> </table>																		Fixed Fenestration:	U-0.38	Operable Fenestration:	U-0.45	Entrance Doors:	U-0.77	SHGC:	U-0.38	Windows:	0.20 CFM/FT ²	Swinging Doors:	0.20 CFM/FT ²	Storefront Glazing:	0.60 CFM/FT ²	Commercial Glazed Swinging Entrance Doors:	1.00 CFM/FT ²				
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<p>Building Code of New York State 2020</p> <p>CHAPTER 7 FIRE-RESISTANCE-RATED CONSTRUCTION</p> <p>BC Table 705.8 (Maximum Area of Exterior Wall Openings): In buildings equipped with automatic sprinkler system, maximum allowable areas of unprotected openings shall be the same as the tabulated limitations for protected openings. Unlimited unprotected openings are permitted in the exterior walls of the first floor above grade facing a street that have a fire separation distance of greater than 15'-0" or facing unoccupied space.</p> <p>Unlimited unprotected openings provided in exterior walls of 1st story above grade.</p> <table border="1"> <thead> <tr> <th>FIRE SEPARATION DISTANCE (FEET)</th> <th>PERCENTAGE OF UNPROTECTED OPENING</th> </tr> </thead> <tbody> <tr><td>PERMITTED</td><td></td></tr> <tr><td>0 TO 3</td><td>Not Permitted</td></tr> <tr><td>3 TO 5</td><td>10%</td></tr> <tr><td>5 TO 10</td><td>15%</td></tr> <tr><td>10 TO 15</td><td>25%</td></tr> <tr><td>15 TO 20</td><td>45%</td></tr> <tr><td>20 TO 25</td><td>70%</td></tr> <tr><td>25 TO 30</td><td>No Limit- Provided</td></tr> <tr><td>GREATER THAN 30</td><td></td></tr> </tbody> </table> <p>BC SECTION 704.10 (Vertical Exposure): Opening protectives having a fire-protection rating of not less than 3/4 hour shall be provided in every opening that is less than 15'-0" vertically above the roof of an adjoining building or adjacent structure that is within a horizontal fire separation distance of 15'-0" of the wall in which the opening is located.</p> <p>EXCEPTION: Opening protectives are not required where the roof construction has a fire resistance rating of not less than 1 hour for a minimum distance of 10'-0" from the adjoining buildings and the entire length and span of the supporting elements for the fire-resistance rated roof assembly has a fire-resistance rating of not less than 1 hour.</p> <p>BC SECTION 715.4.5 (Labeled Protective Assemblies): Fire door assemblies shall be labeled by an approved agency.</p> <p>BC SECTION 715.4.6 (Glazing Materials): Fire-protection-rated glazing in fire doors located in fire walls shall be prohibited except that where serving as a horizontal exit, a self-closing swinging door shall be permitted to have a vision panel of not more than 100 SQ.IN. without a dimension exceeding 10 in.</p> <p>EXCEPTION: Fire-protection-rated glazing shall not be installed in fire doors having a 90 minute fire protection rating intended for installation in fire barriers, unless the glazing is not more than 100 SQ. IN.</p> <p>BC SECTION 715.4.7 (Door Closing): Fire doors shall be self or automatic closing. Automatic closing fire doors provided. (Hold opens tied to fire alarm)</p>																		FIRE SEPARATION DISTANCE (FEET)	PERCENTAGE OF UNPROTECTED OPENING	PERMITTED		0 TO 3	Not Permitted	3 TO 5	10%	5 TO 10	15%	10 TO 15	25%	15 TO 20	45%	20 TO 25	70%	25 TO 30	No Limit- Provided	GREATER THAN 30	
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<p>CHAPTER 8 INTERIOR FINISHES</p> <p>SED S203-2 (Limitations of Use of Interior Finishes) (S203-2A) Class A interior finishes shall be used in corridors and exits (exit enclosures, exit passageways, exterior exit stairs, exterior ramps and horizontal exits.) Class B is acceptable if these spaces have an approved NFPA sprinkler system.</p> <p>BC SECTION 803.3 (Posting of Occupant Load): Every room or space that is an assembly occupancy shall have the occupant load of the room or space posted in a conspicuous place, near the main exit or exit access doorway.</p> <p>BC SECTION 1005.2 (Door Encroachment): Doors opening into the path of egress travel shall not reduce the required width to less than one-half during the course of the swing. When fully open, the door shall not project more than 7" into the required width.</p> <p>SED S106-2A (Egress from Space of Pupil Occupancy): All doors to corridors from spaces of pupil occupancy shall swing into the room unless fully recessed.</p> <p>BC SECTION 1006.1 (Means of Egress Illumination Required): The means of egress, including the exit discharge, shall be illuminated at all times the building spaces served by the means of egress is occupied.</p> <p>SED S106-1A (Egress): There shall be at least two means of egress remote from each other leading from each floor of pupil occupancy. When a pupil enters into a corridor from a room of pupil occupancy, there shall be a choice of two unobstructed means of egress in different directions leading to different exits. 2 means of egress required per floor.</p> <p>SED S106-2B (Egress from space of Pupil Occupancy): Every space of pupil occupancy over 500 square feet in area, shall have two means of egress from the space, each into a separate smoke zone. The primary means of egress is commonly the opening of the corridor. The second means of egress may be a door into a separate smoke zone or to the exterior or a rescue window.</p> <p>BC SECTION 1007.1 (Accessible Means of Egress Required): Where more than one means of egress is required from any accessible space, each accessible portion of the space shall be served by not less than two accessible means of egress. 2 accessible means of egress required per floor.</p> <p>BC SECTION 1007.2 (Continuity and Components): Each required accessible means of egress shall be continuous to a public way and shall consist of one or more of the following components: - Accessible route provided; - Stairways with vertical exit enclosures; provided, - Elevators; provided.</p> <p>CHAPTER 24 GLASS AND GLAZING</p> <p>BC SECTION 2406.2 (Impact Test): Where required by other sections of this code, glazing shall be tested in accordance with CPSC 16 CFR Part 1202. Glazing shall comply with the test criteria for Category II, unless otherwise indicated in Table 2406.2(1).</p> <p>BC SECTION 2406.3 (Identification of Safety Glazing): Except as indicated in Section 2406.3.1, each pane of safety glazing installed in hazardous locations shall be identified by a manufacturer's designation specifying who applied the designation, the manufacturer or installer and the safety glazing standard with which it complies, as well as the information specified in Section 2403.1. The designation shall be acid etched, sand blasted, ceramic fired, laser etched, embossed or of a type that once applied cannot be removed without being destroyed. A label meeting the requirements of this section shall be permitted in lieu of the manufacturer's designation.</p> <p>BC SECTION 2406.4.6 (Glazing Adjacent to Stairways and Ramps): Glazing where the bottom exposed edge of the glazing is less than 60 inches above the plane of the adjacent walking surface of stairways, landings between flights of stairs and ramps shall be considered a hazardous location.</p> <p>S104 EXITS S104-1 General c. During construction of building additions (and alterations), the required exits in the existing building must be kept clear and maintained with Code required fire rated enclosures.</p> <p>155.3 (c) Accident Protection. (1) Glazing of panels and doors shall be with safety glazing materials as follows, unless glazed areas are protected by approved grilles, or rails; (i) interior exit doors, exterior exit doors and immediately adjacent sidelights except where glazing is 48 inches or more above the floor; (ii) all glazed panels where glazing is within 18-inches of the floor, or platform level of music room type risers; (iii) gymnasiums and playrooms and elsewhere where subject to physical abuse; (iv) acceptable safety glazing materials shall be at least one-quarter inch thick wire glass, one-quarter inch tempered (heat treated) glass, one-quarter inch laminated safety glass, or approved plastic materials.</p> <p>(2) Glazed doors and sidelights within 6 feet of such doors shall be marked by appropriate means in accord with the provisions of Part 47 of Title 12 of the Official Compilation of Codes, Rules and Regulations of the State of New York, except marking on door and/or sidelight is not required: (i) where less than 80% of the area of the door or sidelight above a reference line 18 inches above the floor is glazed; (ii) where width of sidelight is not more than 20 inches, with 1 3/4-inch minimum opaque stiles; (iii) where floor treatment a distance of 3 feet out from a sidelight will deter approach; (iv) where sidelights are supported on 18-inch minimum height opaque sill and wall construction; (v) where sidelights are protected by approved 18-inch minimum height permanent barriers such as benches, planters, or guardrails, extending across at least two-thirds of the sidelight.</p>																																					
<p>BC SECTION 804 (Interior Floor Finish): Interior floor finish and floor covering materials to be of class I or II materials shall be classified in accordance with NFPA 253. The classification referred to herein corresponds to the classifications determined by NFPA 253 as follows: CLASS I 0.45 WATTS/CM² OR GREATER CLASS II 0.22 WATTS/CM² OR GREATER</p> <p>BC SECTION 808 (Acoustical Ceiling Systems): Suspended acoustical ceiling systems shall be installed in accordance with the provisions of ASTM C635 and ASTM C636</p> <p>CHAPTER 10 MEANS OF EGRESS</p> <p>BC SECTION 1003.2 (Protruding Objects): Protruding objects are permitted to extend below the minimum ceiling height required provided minimum headroom of 6'-8" shall be provided for any walking surface, including corridors. Not more than 50% of the ceiling area of a means of egress shall be reduced in height by protruding objects. (1003.3.3) Horizontal projections: structural elements, fixtures or furnishings shall not project horizontally from either side more than 4" over any walking surface between the heights of 2'-3" - 6'-8" above the walking surface.</p>																																					
<p>ksqdesign NEW YORK OKLAHOMA</p> <p>KSQ Design 215 W 40th Street 15th Floor New York, NY 10018 646.435.0660 office www.ksqdesign.com</p> <p>Owner Nanuet Union Free School District 101 Church Street Nanuet, NY 10954 845.627.9880 www.nanuetd.org</p> <p>Structural Engineer Clapper Structural Engineering 160 Partition Street Saugerties, NY 12477 845.843.6501 www.clapperstructural.com</p> <p>MEP Engineer Sage Engineering Associates, LLP 9 Columbia Circle Albany, NY 12203 518.453.6091 www.sageelp.com</p> <p>Environmental Engineer Quest Environmental Solutions 1376 Route 9 Wappingers Falls, NY 12590 845.298.6251 www.qualityenv.com</p> <p>Construction Manager Jacobs One Penn Plaza 24th Floor, Suite 2400 New York, NY 10119 646.906.6250 www.jacobs.com</p> <p>REGISTERED ARCHITECT ARKADAM SAMUEL GARDINI 022313 STATE OF NEW YORK EXP. DATE: 3/31/2025</p> <p>NANUET</p> <p>NUFSD BOND PHASE 5 PROJECT - BARR MS</p> <p><input type="checkbox"/> SED#50-01-08-03-0-002-020 (HIGHVIEW ES) <input type="checkbox"/> SED#50-01-08-03-0-001-002 (Maintenance) <input type="checkbox"/> SED#50-01-08-03-0-012-004 (OEC) <input type="checkbox"/> SED#50-01-08-03-0-001-028 (MILLER ES) <input checked="" type="checkbox"/> SED#50-01-08-03-0-004-022 (BARR MS)</p> <p>Highview Elementary School 24 Highview Ave Nanuet, NY 10954</p> <p>OEC Building 135 Convent Rd Nanuet, NY 10954</p> <p>Maintenance Building 103 Church St. Nanuet, NY 10954</p> <p>Miller Elementary School 50 Blauvelt Rd Unit 1 Nanuet, NY 10954</p> <p>A MacArthur Barr Middle School 143 Church St Nanuet, NY 10954</p> <p>KEY PLAN</p> <p>REVISIONS</p> <table border="1"> <thead> <tr> <th>No.</th> <th>Description</th> <th>Date</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table> <p>ISSUED: BID SET DATE: 06/21/2024 SCALE: NTS SHEET NAME: CODE COMPLIANCE SHEET NUMBER:</p> <p>BM-G021</p> <p>ISSUE FOR BID SET</p>																		No.	Description	Date																	
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