

## DRESDEN SCHOOL DISTRICT – RICHMOND MIDDLE SCHOOL, LYME ROAD, HANOVER, NH

### NARRATIVE FROM OCTOBER 2017

The Richmond Middle School presently houses Sixth through Eighth grade. It is three stories, approximately 105,000 square feet and was built new in two thousand five. The building site is 22.85 acres.

The building has many different areas of use for both educational and administrative purposes. Educational space includes forty-two classrooms, an auditorium, a gymnasium, a media center (aka library), and cafeteria with full service kitchen. Administrative and maintenance space includes sixteen offices, two small conference rooms, a staff room, a custodial staff/supply room, six small storage closets, and a P.E. storage room. The heating plant has three boilers, one woodchip and two #2 heating oil. The grounds consist of two staff parking lots with a capacity of 97 vehicles, a bus drop off and pick up zone, one half size paved basketball court, and a grass field for PE, softball/soccer/field hockey/lacrosse teams.

Over the past thirteen years, we have been performing routine maintenance to keep the building in good repair. Interior lighting was upgraded in 2015 to a more energy-efficient LED style lamp. Other systems including mechanical, electrical, plumbing, sprinkler, and roofing are all thirteen years into their life cycle.

The foundation is concrete, the structure is masonry and steel, the siding is brick and metal, the windows are double pane, and the roof system is a flat metal deck with a PVC membrane skin. All these materials are in satisfactory condition. The Richmond Middle School Administration and Staff want to pursue a couple of physical plant initiatives including: a covered bus stop waiting area for inclement weather, air conditioning for the auditorium, a energy recovery system for the gymnasium, air conditioning for the 2nd floor, construction of a challenge course, and a photovoltaic system for energy reduction which will also be integrated for use in curriculum.

Over all the RMS physical plant is in good condition, plans and priorities will need to be set so the property can best serve the Dresden School District for decades to come.

## DRESDEN SCHOOL DISTRICT – HANOVER HIGH SCHOOL, LEBANON ROAD, HANOVER, NH

### NARRATIVE FROM OCTOBER 2017

The Hanover High School presently houses Ninth through Twelfth grade. The original High School was built in 1935, next to the 1924 Richmond Middle School. Since 1935 the high school has had one addition, which occurred in the sixties. Then in 2005 it was combined with a portion of the Richmond Middle School at which point a gymnasium and café were added and other renovations completed. The building site is twenty-eight acres.

The building is currently 190,000 square feet. It has many different areas of use for both educational and administrative purposes. Educational space includes sixty-four classrooms, an auditorium, a gymnasium, a media center and small formal cafeteria space with full service kitchen. There are 2 defined areas of administrative spaces, one belonging to the High School which includes a front office Administration Suite with four offices and a small medium size conference room; a Special Education Suite with three offices; and a Counseling/Guidance Suite with seven offices and one small conference room. The School Advisory Union is now housed at the High School in one part of the prior Middle School section on the first floor. The following SAU 70 Departments can be found here: Superintendent, Business Administration, Technology, Finance and Human Resources operating in seven offices with a communications/waiting area, one small conference room, a mail room and lunch room. The 2<sup>nd</sup> floor of the SAU 70 wing houses the District's Special Education/Student Services Department with 2 offices and the District's Plant & Maintenance Department with two offices.

The Structure is made up of three generations of construction materials with a combination of masonry, wood, and steel. The exterior walls are brick and stucco with wood trim. The roof is 90% flat PVC and rubber membrane and 10% pitched with composite shingles. Windows are mostly double pane with some single pane on the second floor level of the 1924 middle school wing. The interior is consistent throughout with halls and classrooms having VCT floor tile and suspended ceilings; office floors carpeted and ceilings suspended; and walls are cement block or drywall. The mechanical, electrical, and plumbing systems are ten years old and performing well. The lighting is various types of fluorescents.

The exterior grounds are vast with many different landscapes and have many different uses. There are three playing fields, two are grass and one is artificial turf. The woodlands host a comprehensive ropes course. The upper, middle playing field is surrounded by a 400 meter track and various track & field event areas. There are some various open areas which host a student garden, and approximately five acres of grassed lawns. There are three parking lots with in total one hundred and seventy-six regular spaces and ten handicap spaces.

The grass athletic fields are performing well with a minimal irrigation system, they are maintained by an outside vendor. The running track will need resurfacing within five years. The artificial turf field will need replacing within the next two years. Athletic field accessories are coming to the end of their life cycle and include scoreboards, bleachers, fencing and safety padding. There are eight storage units out behind the school that house athletic equipment and overflow of institutional equipment.

Over all the HHS physical plant is in good condition, plans and priorities will need to be set so the property can best serve the Dresden School District for decades to come.

## HANOVER SCHOOL DISTRICT – RAY ELEMENTARY SCHOOL, RESERVOIR RD, HANOVER, NH

### NARRATIVE FROM OCTOBER 2017

The Bernice Ray School presently houses Kindergarten through Fifth Grade. The main building is one-story and was erected in 1969. In 1996, a gymnasium, library, staff room, four classrooms and playground with basketball courts were added along with some interior renovations to the original structure. In 2014 modular classrooms were removed and the final addition was added which included four classrooms. During this same time period, renovations were completed in the cafeteria and hallways. The roof was updated as well as lighting, mechanical and electrical systems, the fire alarm panel and the driveway/parking lot. The present building is 81,252 square feet sitting on 34 acres of land.

The school has many different areas of use for educational, administrative and community use. Educational space includes forty-five classrooms, a gymnasium, a multi-purpose space and library inside as well as the Colonial house an outdoor learning structure. Administrative and maintenance space includes a café with kitchen, nineteen offices, one custodial room, six small storage closets and one boiler room. There are also two storage sheds installed on the property.

The foundation is concrete, the structure is a solid I-beam frame, the roof deck and roofing material are good condition. The exterior siding (T-111) is showing it's age and will need some work in the near future. The interior spaces need more evaluation. Classroom walls are a mix of finished (painted) and unfinished surfaces; classroom lighting is also a mixture of mid 1990's fluorescent lighting and 2014 LED lighting. Classroom cabinetry is original from 1969 and in most cases in need of updating. Classroom ceilings and flooring materials are also mixed. A long-term plan should phase in complete classroom updates over an extended period of time. The focus on these upgrades should be to improve the indoor air quality and install finishes that can be maintained to provide a healthy and safe environment for teaching and learning. Finishes should be standardized throughout the building to gain maximum efficiencies with labor hours.

Life Safety equipment, fire alarm panel, horns/strobes, smoke detectors, emergency lighting, exterior doors and interior/exterior locks have all been recently updated in 2014 and 2017. A sprinkler system is in place and has been expanded as additions and renovations were made. The system passes annual inspection of flow test, but a complete inventory history is unknown. The system is currently being reviewed and evaluated, a report will be added to the 2017 fire & safety inspection due out in November. The electrical distribution system will need to be reviewed and inventoried as well; some parts of the system are original to the building.

Public bathrooms are in good condition and with some minor maintenance upgrades will carry the building into the next decade. Plumbing is in good overall condition. The distribution of hot water to some classrooms needs to be re-engineered. The boiler plant is not centrally located, no recirculation piping was installed and the result is some classrooms have to wait for hot water to reach them, often not very hot. The 2014 renovation removed stand-alone electric water heaters and hot water is now produced from the boiler. Fixtures will be an on going maintenance replace/repair as needed.

The heating, ventilation and air-conditioning equipment is of various types and sizes, spanning twenty years of changes. Approximately 60% of the interior space has heating and cooling, the remaining 40% only heating, most of which is classroom space. In these classrooms, there are no mechanical systems to regulate temperature and/or humidity levels. During the fall and spring seasons, outdoor temperatures dictate indoor temperatures until heating is necessary. Maintenance of some equipment will be a challenge in the near future, the 2015 roof top units installed are in unserviceable locations and safety solutions will need to be installed. The classroom ductwork is original to the building and will need to be evaluated and potentially replaced for proper air distribution. More engineering and technical support will be needed to investigate the safe and efficient operation with these systems.

Overall the building and grounds are in good condition, plans and priorities will need to be decided and revisited on an annual basis so the property can serve the Hanover School District for decades to come. Our focus for the next five years is mostly on renovation and/or replacement of crucial operating systems.

NORWICH SCHOOL DISTRICT – MARION CROSS ELEMENTARY SCHOOL, CHURCH ST, NORWICH, VT

NARRATIVE FROM OCTOBER 2017

The Marion Cross School educates Kindergarten through Sixth Grade. The main building was erected in 1898, with additional space added over 4 decades spanning 1950-1989. During the 1989 addition, many of the existing spaces and systems were also renovated. The present building is 57,250 square feet on sitting on 10+ acres of land.

The 2-story school has many different areas of use for both educational and administrative purposes. Educational space includes twenty-six classrooms, a gymnasium, a multi-purpose room and library. Administrative and maintenance space includes ten offices/meeting spaces, a small kitchen, a staff-room, two custodial rooms, six small storage closets, basement storage and two boiler rooms. The grounds consist of two paved basketball courts, five play spaces, a small baseball diamond, the town bandstand, a seasonal ice rink, various gardens and roughly five acres of grass field. In addition, we utilize neighboring forested properties for outdoor class learning not currently maintained with district funds.

Over the last twenty-eight years the facility has seen some upgrades with roofing, mechanical equipment, carpeting, painting, and computing systems. Much of the remaining systems are three decades old and nearing the end of their serviceable life spans. More engineering and technical support will be needed to investigate the safe and efficient operation with these systems.

Overall the building and grounds are in good condition, plans and priorities will need to be decided and revisited on an annual basis so the property can serve the Norwich School District in the decades to come. Our focus for the next five years is mostly on renovation and/or replacement of crucial operating systems as well as renovation of commonly used educational spaces.