

| School Information - Choose District and Then School Name                                                                                                                                                                                                                                                                                                             |                               |                     |                                       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------|---------------------------------------|
| Field                                                                                                                                                                                                                                                                                                                                                                 | Current Info                  | Proposed Adjustment | Justification for Proposed Adjustment |
| District (Choose First)                                                                                                                                                                                                                                                                                                                                               | Caesar Rodney School District |                     |                                       |
| School Name (Choose Second)                                                                                                                                                                                                                                                                                                                                           | Reilly Brown ES               |                     |                                       |
| School Type                                                                                                                                                                                                                                                                                                                                                           | Elementary School             |                     |                                       |
| Year Const.                                                                                                                                                                                                                                                                                                                                                           | 1970                          |                     |                                       |
| Year Last Renovated                                                                                                                                                                                                                                                                                                                                                   | 2012                          | 2012                |                                       |
| Stories                                                                                                                                                                                                                                                                                                                                                               | 2                             | 2                   |                                       |
| Gross Area (Required)                                                                                                                                                                                                                                                                                                                                                 | 63,574                        |                     |                                       |
| Net Useable Area                                                                                                                                                                                                                                                                                                                                                      | 55,729                        |                     |                                       |
| Grades                                                                                                                                                                                                                                                                                                                                                                | PreK-5                        |                     |                                       |
| Address                                                                                                                                                                                                                                                                                                                                                               | 360 Webbs Ln                  |                     |                                       |
| City                                                                                                                                                                                                                                                                                                                                                                  | Dover                         |                     |                                       |
| State                                                                                                                                                                                                                                                                                                                                                                 | DE                            |                     |                                       |
| Zip Code                                                                                                                                                                                                                                                                                                                                                              | 19904                         |                     |                                       |
| Notes                                                                                                                                                                                                                                                                                                                                                                 |                               |                     |                                       |
| <p>Fields in <b>Yellow</b> are Required. If any of the fields are incorrect or show "Unknown", please enter the correct value in the "Proposed Adjustment" column and enter the reason in the "Justification" column (if you know the information).</p> <p><b>Gross Area is required for the tool to work, so please enter a value if "Unknown" is displayed.</b></p> |                               |                     |                                       |

| Good Repair Questions |                                                                                                                                            |          |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                     |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| System Group          | Good Repair Questions                                                                                                                      | Response | Severity | Severity Guidance                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Enter Comments Here |
| Conveyances           | Are your elevators unreliable, with frequent service calls?                                                                                | No       |          | <b>Minor</b> - Occasional nuisance issues with elevator but generally operational<br><b>Moderate</b> - Usually operational but with some known issues or somewhat frequent downtime.<br><b>Major</b> - Significant known issues, unreliable and frequent downtime                                                                                                                                                                                                                    |                     |
|                       |                                                                                                                                            |          |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                     |
| Electrical            | Are there any problems or inadequacies with exterior lighting?                                                                             | No       |          | <b>Minor</b> - Most fixtures are operational, some may not work, some may provide intermittent service.<br><b>Moderate</b> - Most fixtures generally work, some do not work, some areas are not sufficiently lit.<br><b>Major</b> - Many fixtures are not operational, intermittent and/or there are safety concerns about insufficient lighting.                                                                                                                                    |                     |
|                       | Is the electrical service outdated, undersized, or otherwise problematic?                                                                  | No       |          | <b>Minor</b> - Some areas do not have enough outlets given the need, occasionally breakers need to be reset due to overload.<br><b>Moderate</b> - Breaker panels are fully utilized, many areas do not have sufficient outlets, local breaker resets are routine in some areas, main breakers are hot or noisy.<br><b>Major</b> - Switchgear is overloaded, main breakers trip, some breakers are intentionally shut off to limit use, there are known major issues with the system. |                     |
|                       |                                                                                                                                            |          |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                     |
|                       |                                                                                                                                            |          |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                     |
| General               | Are there any other unresolved construction defects or significant issues/hazards at the property that have not yet been identified above? | No       |          | <b>Minor</b> - single or limited number of hazards that don't impact building use or occupant safety<br><b>Moderate</b> - multiple issues that if left unaddressed could progress to impact building use or occupant safety<br><b>Major</b> - issues pose an immediate threat to occupant safety or limit building use                                                                                                                                                               |                     |
| Mechanical Systems    | Are any areas of the facility inadequately cooled?                                                                                         | No       |          | <b>Minor</b> - Some inhabited areas are uncomfortable 5-10 days a year<br><b>Moderate</b> - Many areas are uncomfortable during warm months, the building may occasionally be closed during extreme heat.<br><b>Major</b> - Most or all areas lack cooling, building will be likely be closed during extreme heat.                                                                                                                                                                   |                     |
|                       | Are any areas of the facility inadequately heated?                                                                                         | No       |          | <b>Minor</b> - Some inhabited areas are uncomfortable 5-10 days a year<br><b>Moderate</b> - Many areas are uncomfortable during extreme cold , space heaters are utilized in some areas, lack of heating redundancy.<br><b>Major</b> - Generally insufficient heating capabilities during cold months, heating systems are maxxed, freezing pipes, school closures due to cold.                                                                                                      |                     |
|                       | Are any areas of the facility inadequately ventilated?                                                                                     | No       |          | <b>Minor</b> - Some generally unoccupied or storage areas have poor or no ventilation<br><b>Moderate</b> - Storage areas are not ventilated and there is insufficient ventilation in some unoccupied areas.<br><b>Major</b> - The building has generally poor ventilation in a significant amount of occupied spaces.                                                                                                                                                                |                     |
|                       | Are there any poorly insulated areas?                                                                                                      | No       |          | <b>Minor</b> - Some areas of the building are poorly insulated, generally in unoccupied areas.<br><b>Moderate</b> - The building has some areas in occupied spaces that are poorly insulated.<br><b>Major</b> - Much of the building has poor insulation, including occupied areas.                                                                                                                                                                                                  |                     |

|   |          |   |
|---|----------|---|
| 3 | major    | 0 |
|   | minor    | 2 |
|   | moderate | 1 |

|                  |                                                                               |     |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |
|------------------|-------------------------------------------------------------------------------|-----|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Mold/Mildew      | Have there been any leaks or pressure problems with HVAC supply/return lines? | No  |  | <b>Minor</b> - There are small seepage leaks or drips in areas that do not affect students or staff. Low pressure in some areas may be experienced during peak times.<br><b>Moderate</b> - There may be persistent leaks in certain locations and/or pressure issues during routine use.<br><b>Major</b> - There are pervasive leaks throughout the systems and/or insufficient pressure to maintain proper operations.                                                                                                                               |  |
|                  | Are there any areas of visible mold/mildew growth?                            | No  |  | <b>Minor</b> - Mold may be observed in some areas, particularly in basement, storage rooms or mechanical spaces.<br><b>Moderate</b> - Mold is observed in areas that can become damp during humidity or rain cycles, typically near windows or door areas.<br><b>Major</b> - Mold is observed in other locations in various areas of the building.                                                                                                                                                                                                    |  |
|                  | Are there complaints of musty odors?                                          | No  |  | <b>Minor</b> - Infrequent complaints from few individuals.<br><b>Moderate</b> - Frequent complaints during high humidity or after rains.<br><b>Major</b> - Constant complaints and routinely perceptible odors.                                                                                                                                                                                                                                                                                                                                       |  |
|                  | Are there areas of the facility that are regularly damp and/or humid?         | No  |  | <b>Minor</b> - Some unoccupied areas of the building are damp and humid during periods of high humidity.<br><b>Moderate</b> - Some occupied areas of the building are damp and humid during periods of high humidity.<br><b>Major</b> - More than half of the building experiences dampness and humidity                                                                                                                                                                                                                                              |  |
| Plumbing Systems | Are there any clogging/back-up problems?                                      | No  |  | <b>Minor</b> - Occasional clogging or backup due to design or condition issues (not misuse).<br><b>Moderate</b> - Repeated clogging or backup in specific areas - known issues.<br><b>Major</b> - Poor or inadequate system design resulting in significant ongoing issues.                                                                                                                                                                                                                                                                           |  |
|                  | Are there any plumbing leaks?                                                 | No  |  | <b>Minor</b> - There are small seepage leaks or drips in areas that do not affect students or staff.<br><b>Moderate</b> - There may be persistent leaks in certain locations.<br><b>Major</b> - There are pervasive leaks throughout the system.                                                                                                                                                                                                                                                                                                      |  |
|                  | Are there any plumbing water pressure issues?                                 | No  |  | <b>Minor</b> - Low pressure in some areas may be experienced during peak times.<br><b>Moderate</b> - There may be persistent pressure issues during routine use.<br><b>Major</b> - There is insufficient pressure to maintain proper operations.                                                                                                                                                                                                                                                                                                      |  |
|                  | Have there been any leaks or pressure problems with steam service?            | N/A |  | <b>Minor</b> - There are small seepage leaks or drips in areas that do not affect students or staff. Low pressure in some areas may be experienced during peak times.<br><b>Moderate</b> - There may be persistent leaks in certain locations and/or pressure issues during routine use.<br><b>Major</b> - There are pervasive leaks throughout the systems and/or insufficient pressure to maintain proper operations. NOTE: <u>ANY</u> high pressure steam leaks should be considered an emergency and reported to the fire department immediately. |  |
|                  | Are there any roof leaks?                                                     | No  |  | <b>Minor</b> - Seepage or occasional dripping.<br><b>Moderate</b> - Small but persistent leak(s) that are localized.<br><b>Major</b> - Significant large or widespread leaks, may affect other systems or finishes.                                                                                                                                                                                                                                                                                                                                   |  |

|                   |                                                                                    |    |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |
|-------------------|------------------------------------------------------------------------------------|----|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Roofs             | Are there any problems with roofing systems?                                       | No |  | <p><b>Minor</b> - Roof is generally sound but there are areas of ponding, poor drainage or damaged flashing - no leaks or only minor infrequent leaks.</p> <p><b>Moderate</b> - Roof is serviceable but there are softareas when walking on the roof and there are minor but ongoing leaks.</p> <p><b>Major</b> - Roof has persistent leaks and is known to have issues with ponding, flashing and/or drainage.</p>                                                                                          |  |
| Site              | Is site/parking drainage inadequate, with excessive ponding or other problems?     | No |  | <p><b>Minor</b> - Occasional ponding a certain areas during or after heavy rainfall.</p> <p><b>Moderate</b> - Ponding in some areas during normal rainfall, that resolves in a day or so.</p> <p><b>Major</b> - Excessive ponding and standing water in several areas during normal rains, insufficient overall drainage.</p>                                                                                                                                                                                |  |
| Skin              | Are there any wall leaks?                                                          | No |  | <p><b>Minor</b> - Occasional dripping during windy conditions</p> <p><b>Moderate</b> - ocasional leaks during normal rain and heavy leaks during windy conditions, may cause finish damage</p> <p><b>Major</b> - Always leaks during rain, visible interior damage to walls and flooring.</p>                                                                                                                                                                                                                |  |
|                   | Are there any window leaks?                                                        | No |  | <p><b>Minor</b> - Occasional dripping during windy conditions</p> <p><b>Moderate</b> - ocasional leaks during normal rain and heavy leaks during windy conditions, may cause finish damage</p> <p><b>Major</b> - Always leaks during rain, visible interior damage to walls and flooring.</p>                                                                                                                                                                                                                |  |
| Structural        | Are there any basement leaks?                                                      | No |  | <p><b>Minor</b> - The basement has minor leaks during times of heavy rain - occurences are occasional and happen infrequently.</p> <p><b>Moderate</b> - During heavy rains, basement will leak and require water abatement. Occasional small leaks during prolonger periods of rain.</p> <p><b>Major</b> - Frequently leaks even during modest or small rains or melting.</p>                                                                                                                                |  |
|                   | Are there any problems with foundations or structures, like excessive settlement?  | No |  | <p><b>Minor</b> - Visible cracks of 1/8" wide or more or surface spalling.</p> <p><b>Moderate</b> - cracks of 1/4" or more or visible shedding of concrete material.</p> <p><b>Major</b> - Cracks 1/2" or wider, or visible settling of the structure or walls, significant and worsening cracking, known issues identified by structural engineer.</p>                                                                                                                                                      |  |
| Gas Leaks         | Have there been any gas leaks observed or reported in the facility?                | No |  | <p><b>Minor</b> - Occasionally, an odor of gas is noticed or reported on the exterior of the building near gas meters or regulators - not a persistent issue.</p> <p><b>Moderate</b> - Odors on the exterior of the building are routinely noted or reported near gas meters or regulators.</p> <p><b>Major</b> - Any other reports of ongoing gas odors, <u>OR ANY INSIDE THE BUILDING</u>. Note that this should be considered an emergency situation and reported to the fire department immediately.</p> |  |
| Building Envelope | Are there any significant cracks or defects in the building exterior walls?        | No |  | <p><b>Minor</b> - Visible cracks of 1/8" wide or more or surface spalling.</p> <p><b>Moderate</b> - cracks of 1/4" or more or visible shedding of concrete material.</p> <p><b>Major</b> - Cracks 1/2" or wider, or visible settling of the walls, significant and worsening cracking.</p>                                                                                                                                                                                                                   |  |
|                   | Are there areas with evidence of water intrusion, not associated with known leaks? | No |  | <p><b>Minor</b> - Occasional staining of walls or ceilings or near windows.</p> <p><b>Moderate</b> - Visible staining on walls or ceilings that tend to become worse after heavy rains.</p> <p><b>Major</b> - walls that become soft or wet after rains.</p>                                                                                                                                                                                                                                                 |  |

|                     |                                                                                                                           |     |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                 |         |
|---------------------|---------------------------------------------------------------------------------------------------------------------------|-----|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| Water Quality       | Are there reports of complaints related to water color, clarity, odor or taste?                                           | No  |       | <b>Minor</b> - Infrequent complaints from few individuals.<br><b>Moderate</b> - Routine complaints from numerous individuals.<br><b>Major</b> - Constant complaints and routinely perceptible odor and taste issues.                                                                                                                                                                                                                            |         |
|                     | Has the water from each consumption point in the school been tested for lead in the last three years?                     | Yes | Minor | <b>Minor</b> - Single or limited number of hazards that don't impact building use or occupant safety.<br><b>Moderate</b> – Multiple fixtures with exceedances or localized area with main or supply piping contamination.<br><b>Major</b> – Widespread exceedances suggest multiple sources or indicate main or source piping may contain lead.                                                                                                 |         |
|                     | Are the fixtures at consumption points greater than 10 years old?                                                         | No  |       | <b>Minor</b> - Less than 10%<br><b>Moderate</b> - 10-50%<br><b>Major</b> - Over 50%                                                                                                                                                                                                                                                                                                                                                             |         |
|                     | Are water filters present at all consumption points?                                                                      | Yes | Major | <b>Minor</b> - Less than 10%<br><b>Moderate</b> - 10-50%<br><b>Major</b> - Over 50%                                                                                                                                                                                                                                                                                                                                                             |         |
|                     | Is there a written filter replacement/maintenance plan in place for all consumption points?                               | Yes | N/A   |                                                                                                                                                                                                                                                                                                                                                                                                                                                 |         |
| Interior Surfaces   | Are interior surfaces (built-in counters, casework, display cases, shelving, etc) in good condition?                      | Yes |       | <b>Minor</b> - Some minor chipping or discoloration of surfaces or finishes, but generally presentable and in good to fair condition.<br><b>Moderate</b> - General wear/tear an aging of surfaces and finishes, serviceable but somewhat worn.<br><b>Major</b> - Aged, unsightly and/or lots of chipped sufaces, non-functional doors or loose shelving throughout much of the building.                                                        |         |
|                     | Are there areas of deterioriated paint, wood, wallpaper or other surfaces in need of repair?                              | No  |       | <b>Minor</b> - Generally in good to fair condition, some areas may need repair or repainting but otherwise ok.<br><b>Moderate</b> - Finsihes are aged, dull, smudged or peeling in some areas of the building, generally servicable but somewhat unsightly.<br><b>Major</b> - Significant deterioration of wall finishes, unsightly appearance, peeling wallpaper and/or chipped or damaged finishes of other surfaces in much of the building. |         |
|                     | Are floors generally in good repair and free of cracks, gaps, etc.?                                                       | Yes |       | <b>Minor</b> - Occasional chipping or cracking in flooring but otherwise in good servicable condition.<br><b>Moderate</b> - cracking or chpiing in a few areas, cracks may be large enough to be felt underfoot.<br><b>Major</b> - excessive cracking or chipping with some areas presenting potential tripping hazards.                                                                                                                        |         |
| Hazardous Materials | Are any hazardous materials present improperly stored and labeled?                                                        | No  | N/A   |                                                                                                                                                                                                                                                                                                                                                                                                                                                 |         |
|                     | Is there an asbestos management plan in place, if applicable?                                                             | N/A | N/A   |                                                                                                                                                                                                                                                                                                                                                                                                                                                 |         |
| Fire Safety         | Has the fire alarm system been inspected as required?                                                                     | Yes | N/A   |                                                                                                                                                                                                                                                                                                                                                                                                                                                 |         |
|                     | Are fire exits clearly marked?                                                                                            | Yes | N/A   |                                                                                                                                                                                                                                                                                                                                                                                                                                                 |         |
|                     | Is there an up to date emergency evacuation plan?                                                                         | Yes | N/A   |                                                                                                                                                                                                                                                                                                                                                                                                                                                 |         |
| ADA                 | Has an accessibility study been performed at the site? If so, when? - Enter in Comments                                   | Yes | N/A   |                                                                                                                                                                                                                                                                                                                                                                                                                                                 |         |
|                     | If an ADA study has occurred, have the associated recommendations been addressed? In full or in part? - Enter in Comments | Yes | N/A   |                                                                                                                                                                                                                                                                                                                                                                                                                                                 | In Full |
|                     | Have there been regular complaints about accessibility issues, or previous or pending litigation?                         | No  | N/A   |                                                                                                                                                                                                                                                                                                                                                                                                                                                 |         |

| Modernization Questions              |                                                                        |                                                                     |                                                                                               |                                                                                             |                              |             |
|--------------------------------------|------------------------------------------------------------------------|---------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|------------------------------|-------------|
| Type                                 | Class                                                                  | Category                                                            | System                                                                                        | Comments (Optional)                                                                         | Achievement Level (Required) |             |
| Energy                               | Building                                                               | Appliances /Vending                                                 | Energy Star Refrigerators in Breakrooms / Community Rooms                                     |                                                                                             | Full (100%)                  |             |
|                                      |                                                                        |                                                                     | Install Energy Savers on Vending, Snack Machines                                              |                                                                                             | Full (100%)                  |             |
|                                      |                                                                        |                                                                     | Install Front Load Commercial / Residential Washers                                           |                                                                                             | Mostly (75%)                 |             |
|                                      |                                                                        |                                                                     | Replace Existing Freezers With High Efficiency Freezers                                       |                                                                                             | Full (100%)                  |             |
|                                      |                                                                        | Envelope                                                            | Add Reflective Coating To Exterior Windows                                                    |                                                                                             | Minimally(25%)               |             |
|                                      |                                                                        |                                                                     | Air seal Bldg. Control External Air Leakage                                                   |                                                                                             | Minimally(25%)               |             |
|                                      |                                                                        |                                                                     | Install Rapid Closing Overhead Doors - Warehouse/loading dock                                 |                                                                                             | N/A                          |             |
|                                      |                                                                        |                                                                     | Install Reflective Insulation Between Radiators And External Wall                             |                                                                                             | Full (100%)                  |             |
|                                      |                                                                        |                                                                     | Upgrade Attic Insulation - R60 Attic Insulation                                               |                                                                                             | N/A                          |             |
|                                      |                                                                        |                                                                     | Upgrade Exterior Windows - Double pane windows with thermal breaks Low-e                      |                                                                                             | Full (100%)                  |             |
|                                      |                                                                        | Utility Metering                                                    | Upgrade Wall Insulation - R30 Wall Insulation                                                 |                                                                                             | N/A                          |             |
|                                      |                                                                        |                                                                     | Disconnect & Reconcile Multiple Utility Meters (Central Supply)                               |                                                                                             | Full (100%)                  |             |
|                                      | Electrical                                                             | Electrical                                                          | Install Sub-meters For Electric / Water                                                       |                                                                                             | Full (100%)                  |             |
|                                      |                                                                        |                                                                     | Electrical Distribution System Upgrade (Within Past 10 years)                                 |                                                                                             | Minimally(25%)               |             |
|                                      |                                                                        | Lighting                                                            | Convert "EXIT" Signs to LED                                                                   |                                                                                             | Full (100%)                  |             |
|                                      |                                                                        |                                                                     | Convert Exterior Lights to LED                                                                |                                                                                             | Full (100%)                  |             |
|                                      |                                                                        |                                                                     | Install Automatic Lighting Controls                                                           |                                                                                             | Full (100%)                  |             |
|                                      |                                                                        |                                                                     | Interior LED lighting and occupancy with daylight controls                                    |                                                                                             | Partially (50%)              |             |
|                                      |                                                                        | Air Handling                                                        | Energy Recovery Ventilation (ERV) and air handling units with heat recovery wheels            |                                                                                             | Full (100%)                  |             |
|                                      |                                                                        |                                                                     | High Efficiency Motors - AHU                                                                  |                                                                                             | Full (100%)                  |             |
|                                      |                                                                        |                                                                     | Insulate Air Ducts                                                                            |                                                                                             | Full (100%)                  |             |
|                                      |                                                                        |                                                                     | Minimum Efficiency Reporting Value (MERV) 13 filters, MERV 11 minimum if higher-rated filters |                                                                                             | Full (100%)                  |             |
|                                      |                                                                        |                                                                     | New ductwork system adequate for heating and cooling demand (Within Past 10 years)            |                                                                                             | Full (100%)                  |             |
|                                      |                                                                        |                                                                     | Outside Air Control Through Co2 Sensors in AHU                                                |                                                                                             | Full (100%)                  |             |
| Steam Clean AHU Fan Coils (Annually) |                                                                        |                                                                     | Full (100%)                                                                                   |                                                                                             |                              |             |
| Controls                             | DDC Controls throughout the building                                   |                                                                     | Full (100%)                                                                                   |                                                                                             |                              |             |
|                                      | Independent temperature control in rooms, offices, classrooms          |                                                                     | Full (100%)                                                                                   |                                                                                             |                              |             |
|                                      | Install Building Energy Management System                              |                                                                     | Full (100%)                                                                                   |                                                                                             |                              |             |
|                                      | Install Self Learning Programmable Thermostats                         |                                                                     | N/A                                                                                           |                                                                                             |                              |             |
|                                      | Install Thermostatic Radiator Valve (TRV) controls for Steam Radiators |                                                                     | N/A                                                                                           |                                                                                             |                              |             |
|                                      | Re-Commission The Building & Control Systems (Within past five years)  |                                                                     | Full (100%)                                                                                   |                                                                                             |                              |             |
|                                      | Timers on Manual Exhaust Fans                                          |                                                                     | N/A                                                                                           |                                                                                             |                              |             |
| HVAC                                 | Cooling                                                                | Upgrade Pneumatic to DDC for Building Controls                      |                                                                                               | N/A                                                                                         |                              |             |
|                                      |                                                                        | Dehumidification systems for summer use                             |                                                                                               | Full (100%)                                                                                 |                              |             |
|                                      |                                                                        | Install high SEER Split Heat Pump Air Conditioning Systems          |                                                                                               | N/A                                                                                         |                              |             |
|                                      |                                                                        | Install SEER 10+ Through the Window AC Units                        |                                                                                               | N/A                                                                                         |                              |             |
|                                      | Heating                                                                | Install SEER 16+ Split Air Conditioning Systems                     |                                                                                               | N/A                                                                                         |                              |             |
|                                      |                                                                        | Install SEER 18+ Ductless Split Air Conditioning System             |                                                                                               | Full (100%)                                                                                 |                              |             |
|                                      |                                                                        | Insulate Refrigerant Lines                                          |                                                                                               | Full (100%)                                                                                 |                              |             |
|                                      |                                                                        | Replace Rooftop Package Units (Within Past 10 years)                |                                                                                               | Full (100%)                                                                                 |                              |             |
|                                      |                                                                        | Upgrade Chillers /Cooling Systems (Within Past 10 years)            |                                                                                               | Full (100%)                                                                                 |                              |             |
|                                      |                                                                        | Install High Efficiency Boilers                                     |                                                                                               | Full (100%)                                                                                 |                              |             |
|                                      | Hydronic and piping                                                    | Repair / Install Hot Water Pipe Insulation (Annually)               |                                                                                               | Full (100%)                                                                                 |                              |             |
|                                      |                                                                        | Repair /Install Insulation on Hot Surfaces And Tanks                |                                                                                               | Full (100%)                                                                                 |                              |             |
| Replace Defective Steam Traps        |                                                                        |                                                                     | N/A                                                                                           |                                                                                             |                              |             |
| Electric baseboard heat              |                                                                        |                                                                     | Full (100%)                                                                                   |                                                                                             |                              |             |
| Plumbing                             | DWH                                                                    | Replace Unit Heaters (Within Past 10 years)                         |                                                                                               | Full (100%)                                                                                 |                              |             |
|                                      |                                                                        | Upgrade Electric Heating System To Heat Pumps                       |                                                                                               | Full (100%)                                                                                 |                              |             |
|                                      |                                                                        | Install Hydronic Piping 4 pipe system                               |                                                                                               | Full (100%)                                                                                 |                              |             |
|                                      |                                                                        | Make-up air units (MUA)                                             |                                                                                               | Full (100%)                                                                                 |                              |             |
|                                      | HVAC                                                                   | Install MUA units in kitchens                                       |                                                                                               | Full (100%)                                                                                 |                              |             |
|                                      |                                                                        | High Efficiency Motors - Cooling Towers                             |                                                                                               | Full (100%)                                                                                 |                              |             |
|                                      |                                                                        | VFD on AHU and Pump Motors                                          |                                                                                               | Full (100%)                                                                                 |                              |             |
|                                      |                                                                        | Lower DWH Setpoint to 122F - (Not for Commercial Kitchen)           |                                                                                               | Full (100%)                                                                                 |                              |             |
|                                      | Irrigation                                                             | Setback loop on Circulation Pump                                    |                                                                                               | Full (100%)                                                                                 |                              |             |
|                                      |                                                                        | Upgrade Domestic Water heaters (Within Past 10 years)               |                                                                                               | Full (100%)                                                                                 |                              |             |
|                                      |                                                                        | Repair / Install Hot Water Pipe Insulation (HVAC Piping)            |                                                                                               | Full (100%)                                                                                 |                              |             |
|                                      |                                                                        | Repair /Install Insulation on Hot Surfaces And Tanks (HVAC Systems) |                                                                                               | Full (100%)                                                                                 |                              |             |
| Modernization                        | Building                                                               | Plumbing                                                            | Install Smart Irrigation System                                                               |                                                                                             | Full (100%)                  |             |
|                                      |                                                                        |                                                                     | Central Domestic Hot Water separate from full heating system?                                 |                                                                                             | Full (100%)                  |             |
|                                      |                                                                        |                                                                     | Install 0.125GPF Urinals                                                                      |                                                                                             | Full (100%)                  |             |
|                                      |                                                                        |                                                                     | Install 0.5 Low Flow Faucet Aerators in Restrooms                                             |                                                                                             | Full (100%)                  |             |
|                                      |                                                                        | Pump /Fan Motors                                                    | Install 1.0GPM Low Flow Flush Tank Toilets                                                    |                                                                                             | Full (100%)                  |             |
|                                      |                                                                        |                                                                     | Install 1.5GPM Aerator in Kitchen/ Break Rm. Faucets                                          |                                                                                             | Full (100%)                  |             |
|                                      |                                                                        |                                                                     | Install 1.5GPM Low Flow Shower Heads                                                          |                                                                                             | Full (100%)                  |             |
|                                      |                                                                        |                                                                     | Retrofit Commercial Toilets to Dual Flush                                                     |                                                                                             | Full (100%)                  |             |
|                                      |                                                                        | Fire Alarm                                                          | High Efficiency Motors - Circulation Pumps                                                    |                                                                                             | Full (100%)                  |             |
|                                      |                                                                        |                                                                     | Upgrade Fire alarm system with addressable panel                                              |                                                                                             | Full (100%)                  |             |
|                                      |                                                                        |                                                                     | Fire Suppression                                                                              | Full-coverage fire suppression                                                              |                              | Full (100%) |
|                                      |                                                                        |                                                                     | Flooring                                                                                      | Are floors durable with low maintenance? ( Durable rubber, terrazzo, high quality VCT, etc) |                              | Full (100%) |
| Sufficiency                          | Interior upgrades                                                      | Generator                                                           | Is backup generator system on site providing full backup?                                     |                                                                                             | Not Compliant                |             |
|                                      |                                                                        | Security                                                            | Casework upgrade                                                                              |                                                                                             | Minimally(25%)               |             |
|                                      |                                                                        |                                                                     | Install suspended ceiling in areas of no finish                                               |                                                                                             | Full (100%)                  |             |
|                                      |                                                                        |                                                                     | Is elevator available to staff and students.                                                  |                                                                                             | Full (100%)                  |             |
|                                      | Site                                                                   | Card access system                                                  |                                                                                               | Full (100%)                                                                                 |                              |             |
|                                      |                                                                        | Sufficient parking available                                        |                                                                                               | Full (100%)                                                                                 |                              |             |
|                                      |                                                                        | Plumbing                                                            | Upgrade plumbing system supply and sanitary water system (Within Past 10 years)               |                                                                                             | Full (100%)                  |             |
|                                      |                                                                        | Comm upgrade                                                        | Ethernet and high bandwidth Wi-Fi                                                             |                                                                                             | Full (100%)                  |             |

# Asset Lifecycle Analysis (Enter Values Where Applicable)

| System Type                  | System Group              | Asset Name                                          | EUL | New Unit Cost | UoM   | Comments (Optional) | Quantity | Total Cost   | RUL | Percent Used |
|------------------------------|---------------------------|-----------------------------------------------------|-----|---------------|-------|---------------------|----------|--------------|-----|--------------|
| Building Equipment & Systems | Conveyances               | Hydraulic Elevator/Controller/Cab                   | 25  | \$ 50,000.00  | Stops |                     | 2        | \$ 100,000   | 13  | 48%          |
|                              |                           | Traction Elevator/Controller/Cab                    | 25  | \$ 75,000.00  | Stops |                     | -        | \$ -         |     |              |
|                              |                           | Wheelchair Lift                                     | 25  | \$ 28,000.00  | EA    |                     | -        | \$ -         |     |              |
|                              | Electrical Distribution   | Electrical Service - MDP - High Density             | 40  | \$ 20.00      | GSF   |                     | -        | \$ -         |     |              |
|                              |                           | Electrical Service - MDP - Standard Density         | 40  | \$ 16.00      | GSF   |                     | 37,262   | \$ 596,192   | 0   | 100%         |
|                              |                           | Electrical Service - MDP/Gen/UPS - High Density     | 40  | \$ 24.00      | GSF   |                     | -        | \$ -         |     |              |
|                              |                           | Electrical Service - MDP/Gen/UPS - Standard Density | 40  | \$ 20.00      | GSF   |                     | 37,262   | \$ 745,240   | 0   | 100%         |
|                              |                           | Lighting - High Density and/or High End Fixtures    | 20  | \$ 13.00      | SF    |                     | -        | \$ -         |     |              |
|                              |                           | Lighting - Standard Density & Standard Fixtures     | 20  | \$ 8.00       | SF    |                     | 37,262   | \$ 298,096   | 8   | 60%          |
|                              |                           | Security & Low Voltage Systems - Standard Density   | 15  | \$ 9.00       | GSF   |                     | 37,262   | \$ 335,358   | 3   | 80%          |
|                              |                           | Security & Low Voltage Systems - High Density       | 15  | \$ 12.00      | GSF   |                     | -        | \$ -         |     |              |
|                              |                           | Solar PV Panel w/Inverter                           | 20  | \$ 2,000.00   | EA    |                     | -        | \$ -         |     |              |
|                              |                           | Switchgear w/Sub Panels - High Density              | 40  | \$ 22.00      | GSF   |                     | -        | \$ -         |     |              |
|                              |                           | Switchgear w/Sub Panels - Standard Density          | 40  | \$ 18.00      | GSF   |                     | 37,262   | \$ 670,716   | 0   | 100%         |
|                              |                           | Switchgear w/Sub Panels/Gen/UPS - High Density      | 40  | \$ 27.00      | GSF   |                     | -        | \$ -         |     |              |
|                              |                           | Switchgear w/Sub Panels/Gen/UPS -Standard Density   | 40  | \$ 23.00      | GSF   |                     | 37,262   | \$ 857,026   | 0   | 100%         |
|                              | HVAC                      | Boiler(s)/System - Coal                             | 30  | \$ 62.00      | MBH   |                     | -        | \$ -         |     |              |
|                              |                           | Boiler(s)/System - Dual Fuel                        | 30  | \$ 62.00      | MBH   |                     | -        | \$ -         |     |              |
|                              |                           | Boiler(s)/System - Electric                         | 30  | \$ 57.00      | MBH   |                     | -        | \$ -         |     |              |
|                              |                           | Boiler(s)/System - Condensing                       | 30  | \$ 90.00      | MBH   |                     | -        | \$ -         |     |              |
|                              |                           | Boiler(s)/System - Fuel Oil                         | 30  | \$ 60.00      | MBH   |                     | -        | \$ -         |     |              |
|                              |                           | Boiler(s)/System - Gas                              | 30  | \$ 62.00      | MBH   |                     | -        | \$ -         |     |              |
|                              |                           | Chiller(s) / Cooling Tower(s) - Air Sourced         | 25  | \$ 1,200.00   | TON   |                     | -        | \$ -         |     |              |
|                              |                           | Chiller(s) / Cooling Tower(s) - Water Sourced       | 25  | \$ 1,500.00   | TON   |                     | -        | \$ -         |     |              |
|                              |                           | Electrical Heat (NOT part of Central System)        | 35  | \$ 50.00      | MBH   |                     | -        | \$ -         |     |              |
|                              |                           | Even Mix of Package Units & Split Systems           | 18  | \$ 1,900.00   | TON   |                     | -        | \$ -         |     |              |
|                              |                           | Forced Air System, 2-Pipe System                    | 30  | \$ 18.00      | GSF   |                     | -        | \$ -         |     |              |
|                              |                           | Forced Air System, 4-Pipe System                    | 30  | \$ 22.00      | GSF   |                     | -        | \$ -         |     |              |
|                              |                           | Geothermal System (Heating and/or Cooling)          | 20  | \$ 145.00     | MBH   |                     | 15,000   | \$ 2,175,000 | 12  | 40%          |
|                              |                           | Off-Site Chilled Water Plant (Distribution ONLY)    | 25  | \$ 420.00     | TON   |                     | -        | \$ -         |     |              |
|                              |                           | Off-Site Steam Plant (Distribution ONLY)            | 30  | \$ 35.00      | MBH   |                     | -        | \$ -         |     |              |
|                              |                           | Package Units (RTUs)                                | 20  | \$ 7,000.00   | TON   |                     | 58       | \$ 402,500   |     |              |
|                              |                           | Piped System - Unit Ventilators/Fan Coils, 2-Pipe   | 30  | \$ 10.00      | GSF   |                     | -        | \$ -         |     |              |
|                              |                           | Split Systems                                       | 15  | \$ 2,000.00   | TON   |                     | -        | \$ -         |     |              |
|                              | Life Safety               | Fire Alarm System, Advanced Addressable             | 20  | \$ 6.00       | SF    |                     | 37,262   | \$ 223,572   | 12  | 40%          |
|                              |                           | Fire Alarm System, Basic/Zoned                      | 20  | \$ 1.50       | SF    |                     | -        | \$ -         |     |              |
|                              |                           | Fire Alarm System, Standard Addressable             | 20  | \$ 3.00       | SF    |                     | -        | \$ -         |     |              |
|                              |                           | Sprinkler System, High Density/Complexity           | 40  | \$ 8.76       | SF    |                     | 37,262   | \$ 326,415   | 22  | 45%          |
|                              |                           | Sprinkler System, Standard Density/Complexity       | 40  | \$ 3.40       | SF    |                     | -        | \$ -         |     |              |
|                              | Plumbing Fixtures         | Supply & Sanitary, High Density (w/Fixtures)        | 40  | \$ 20.00      | GSF   |                     | -        | \$ -         |     |              |
|                              |                           | Supply & Sanitary, Low Density (w/Fixtures)         | 40  | \$ 7.00       | GSF   |                     | -        | \$ -         |     |              |
|                              |                           | Supply & Sanitary, Standard Density (w/Fixtures)    | 40  | \$ 15.00      | GSF   |                     | 37,262   | \$ 558,930   | 22  | 45%          |
|                              | Program Support Equipment | Casework - Premium Quality                          | 22  | \$ 510.00     | LF    |                     | 620      | \$ 316,200   | 0   | 100%         |
|                              |                           | Casework - Standard Quality                         | 20  | \$ 421.00     | LF    |                     | -        | \$ -         |     |              |
|                              |                           | Commercial Kitchen Equipment - Cooking              | 15  | \$ 40,000.00  | LS    |                     | 136      | \$ 5,440,000 | 2   | 87%          |
|                              |                           | Commercial Kitchen Equipment - Serving Only         | 15  | \$ 15,000.00  | LS    |                     | -        | \$ -         |     |              |
|                              |                           | Commercial Kitchen Equipment - Warming Only         | 15  | \$ 25,000.00  | LS    |                     | -        | \$ -         |     |              |
|                              |                           | Swimming pool                                       | 20  | \$ 80.00      | SF    |                     | -        | \$ -         |     |              |
| Building Exterior            | Roofs                     | Asphalt Shingle Roof                                | 20  | \$ 8.00       | SF    |                     | -        | \$ -         |     |              |
|                              |                           | Built-Up Roof                                       | 20  | \$ 28.00      | SF    |                     | -        | \$ -         |     |              |
|                              |                           | Clay Tile Roof                                      | 50  | \$ 29.00      | SF    |                     | -        | \$ -         |     |              |
|                              |                           | Green w/Hot-Applied Rubberized Asphalt Roof         | 20  | \$ 35.00      | SF    |                     | -        | \$ -         |     |              |
|                              |                           | Inverted Roof Membrane Assembly (IRMA)              | 20  | \$ 10.00      | SF    |                     | -        | \$ -         |     |              |

|                   |            |                                                   |     |    |          |    |  |        |    |           |    |      |
|-------------------|------------|---------------------------------------------------|-----|----|----------|----|--|--------|----|-----------|----|------|
| Building Exterior | Roofs      | Metal Roof                                        | 50  | \$ | 39.00    | SF |  | -      | \$ | -         |    |      |
|                   |            | Modified Bituminous Roof                          | 20  | \$ | 26.00    | SF |  | -      | \$ | -         |    |      |
|                   |            | Roof Skylight                                     | 30  | \$ | 50.00    | SF |  | -      | \$ | -         |    |      |
|                   |            | Roof Structure/Framing                            | 75  | \$ | 30.00    | SF |  | 37,262 | \$ | 1,117,860 | 15 | 80%  |
|                   |            | Single-Ply EPDM Membrane Roof                     | 20  | \$ | 25.00    | SF |  | 37,262 | \$ | 931,550   | 7  | 65%  |
|                   |            | Single-Ply TPO/PVC Membrane Roof                  | 20  | \$ | 25.00    | SF |  | -      | \$ | -         |    |      |
|                   |            | Slate Roof                                        | 75  | \$ | 49.00    | SF |  | -      | \$ | -         |    |      |
|                   | Skin       | Brick - Exterior Wall                             | 50  | \$ | 39.80    | SF |  | 23,688 | \$ | 942,782   | 0  | 100% |
|                   |            | Concrete Block (CMU) - Exterior Wall              | 50  | \$ | 26.00    | SF |  | -      | \$ | -         |    |      |
|                   |            | Concrete Cast-in-Place - Exterior Wall            | 50  | \$ | 31.00    | SF |  | -      | \$ | -         |    |      |
|                   |            | Concrete Tilt-Up - Exterior Wall                  | 50  | \$ | 18.00    | SF |  | -      | \$ | -         |    |      |
|                   |            | Curtain Wall - Exterior Wall                      | 50  | \$ | 110.00   | SF |  | -      | \$ | -         |    |      |
|                   |            | Exterior Door, Aluminum-Framed Fully-Glazed       | 40  | \$ | 4,500.00 | EA |  | 7      | \$ | 31,500    | 0  | 100% |
|                   |            | Exterior Door, FRP (Fiber Reinforced Plastic)     | 35  | \$ | 4,200.00 | EA |  | -      | \$ | -         |    |      |
|                   |            | Exterior Door, Steel                              | 40  | \$ | 3,735.00 | EA |  | 10     | \$ | 37,350    | 0  | 100% |
|                   |            | Exterior Door, Wood                               | 25  | \$ | 2,865.00 | EA |  | -      | \$ | -         |    |      |
|                   |            | Exterior Overhead Door, Aluminum                  | 30  | \$ | 5,000.00 | EA |  | -      | \$ | -         |    |      |
|                   |            | Exterior Overhead Door, Steel                     | 30  | \$ | 3,200.00 | EA |  | -      | \$ | -         |    |      |
|                   |            | Exterior Overhead Door, Wood                      | 30  | \$ | 3,000.00 | EA |  | -      | \$ | -         |    |      |
|                   |            | Exterior Service Door, Steel                      | 40  | \$ | 3,400.00 | EA |  | -      | \$ | -         |    |      |
|                   |            | Exterior Siding, Aluminum                         | 40  | \$ | 11.00    | SF |  | -      | \$ | -         |    |      |
|                   |            | Exterior Siding, Fiber Cement                     | 45  | \$ | 9.00     | SF |  | -      | \$ | -         |    |      |
|                   |            | Exterior Siding, Vinyl                            | 30  | \$ | 10.00    | SF |  | -      | \$ | -         |    |      |
|                   |            | Exterior Siding, Wood Clapboard                   | 30  | \$ | 16.00    | SF |  | -      | \$ | -         |    |      |
|                   |            | Glass Block - Exterior Wall                       | 40  | \$ | 50.00    | SF |  | -      | \$ | -         |    |      |
|                   |            | Metal/Insulated Panels - Exterior Wall            | 45  | \$ | 22.00    | SF |  | -      | \$ | -         |    |      |
|                   |            | Stone - Exterior Wall                             | 50  | \$ | 60.00    | SF |  | -      | \$ | -         |    |      |
|                   |            | Storefront, Metal-Framed w/Door(s)                | 30  | \$ | 55.00    | SF |  | -      | \$ | -         |    |      |
|                   |            | Stucco - Exterior Wall                            | 50  | \$ | 20.00    | SF |  | -      | \$ | -         |    |      |
|                   |            | Window, Metal-Frame                               | 30  | \$ | 60.00    | SF |  | 2,000  | \$ | 120,000   |    |      |
|                   |            | Window, Ribbon Metal-Framed                       | 30  | \$ | 55.00    | SF |  | -      | \$ | -         |    |      |
|                   |            | Window, Wood-Frame                                | 30  | \$ | 70.00    | SF |  | -      | \$ | -         |    |      |
|                   | Structural | Basement Wall, Concrete                           | 100 | \$ | 36.48    | SF |  | -      | \$ | -         |    |      |
|                   |            | Basement Wall, Masonry                            | 100 | \$ | 26.17    | SF |  | -      | \$ | -         |    |      |
|                   |            | Basement Wall, Stone                              | 100 | \$ | 72.17    | SF |  | -      | \$ | -         |    |      |
|                   |            | Concrete Cast-in-Place Structural Framing         | 100 | \$ | 40.00    | SF |  | -      | \$ | -         |    |      |
|                   |            | Concrete Pre-Cast Structural Framing              | 100 | \$ | 40.00    | SF |  | -      | \$ | -         |    |      |
|                   |            | Concrete Slab-on-Grade                            | 100 | \$ | 8.00     | SF |  | 37,262 | \$ | 298,096   | 45 | 55%  |
|                   |            | Masonry Bearing Walls Structural Framing          | 100 | \$ | 30.00    | SF |  | 23,688 | \$ | 710,640   | 45 | 55%  |
|                   |            | Shallow Foundation - Concrete Footings            | 100 | \$ | 120.00   | LF |  | 1,390  | \$ | 166,800   | 45 | 55%  |
|                   |            | Shallow Foundation - Concrete Footings 3+ Stories | 100 | \$ | 140.00   | LF |  | -      | \$ | -         |    |      |
|                   |            | Shallow Foundation - Concrete Slab-on-Grade       | 100 | \$ | 16.00    | SF |  | -      | \$ | -         |    |      |
|                   |            | Steel Columns & Beams Structural Framing          | 100 | \$ | 45.00    | SF |  | 37,262 | \$ | 1,676,790 | 45 | 55%  |
|                   |            | Steel, Light Gauge Structural Framing             | 100 | \$ | 26.00    | SF |  | -      | \$ | -         |    |      |
|                   |            | Wood, Conventional Stud Structural Framing        | 100 | \$ | 14.68    | SF |  | -      | \$ | -         |    |      |
|                   |            | Wood, Heavy Timber Structural Framing             | 100 | \$ | 31.95    | SF |  | -      | \$ | -         |    |      |
| Building Interior | Ceilings   | Fiberglass Panel Ceiling                          | 25  | \$ | 8.05     | SF |  | -      | \$ | -         |    |      |
|                   |            | Gypsum Board/Plaster Ceiling                      | 30  | \$ | 4.84     | SF |  | -      | \$ | -         |    |      |
|                   |            | Splined Acoustical Tile (ACT) Ceiling             | 25  | \$ | 6.75     | SF |  | -      | \$ | -         |    |      |
|                   |            | Suspended Acoustical Tile (ACT) Ceiling           | 25  | \$ | 7.60     | SF |  | 57,674 | \$ | 438,322   | 12 | 52%  |
|                   |            | Textured Spray Coating Ceiling                    | 20  | \$ | 8.45     | SF |  | -      | \$ | -         |    |      |
|                   |            | Wood Ceiling                                      | 30  | \$ | 30.50    | SF |  | -      | \$ | -         |    |      |
|                   | Flooring   | Carpet                                            | 12  | \$ | 4.00     | SF |  | -      | \$ | -         |    |      |
|                   |            | Ceramic Tile Floor                                | 40  | \$ | 17.30    | SF |  | -      | \$ | -         |    |      |
|                   |            | Concrete - Painted Floor                          | 10  | \$ | 1.96     | SF |  | 1,020  | \$ | 1,999     | 0  | 100% |
|                   |            | Quarry Tile Floor                                 | 50  | \$ | 19.55    | SF |  | -      | \$ | -         |    |      |
|                   |            | Terrazzo Floor                                    | 50  | \$ | 28.00    | SF |  | -      | \$ | -         |    |      |



|                   |                             |                                                  |    |             |    |  |        |            |    |      |
|-------------------|-----------------------------|--------------------------------------------------|----|-------------|----|--|--------|------------|----|------|
| Building Interior |                             | Vinyl Composition Tile (VCT) Floor               | 20 | \$ 2.73     | SF |  | 56,674 | \$ 154,720 | 7  | 65%  |
|                   |                             | Vinyl Composition Tile (VCT) Floor - Suspect ACM | 15 | \$ 5.39     | SF |  | -      | \$ -       |    |      |
|                   |                             | Vinyl Sheeting Floor                             | 15 | \$ 3.80     | SF |  | -      | \$ -       |    |      |
|                   |                             | Wood Sports Floor                                | 30 | \$ 23.00    | SF |  | -      | \$ -       |    |      |
|                   | Interior Construction       | Brick Interior Wall                              | 50 | \$ 35.70    | SF |  | -      | \$ -       |    |      |
|                   |                             | Concrete Block (CMU) Interior Wall               | 50 | \$ 11.00    | SF |  | 7,485  | \$ 82,335  | 0  | 100% |
|                   |                             | Concrete Block (CMU), Glazed Interior Wall       | 50 | \$ 32.08    | SF |  | -      | \$ -       |    |      |
|                   |                             | Concrete Interior Wall                           | 50 | \$ 28.30    | SF |  | -      | \$ -       |    |      |
|                   |                             | Gypsum Board/Plaster Interior Wall               | 20 | \$ 7.14     | SF |  | 22,400 | \$ 159,936 | 0  | 100% |
|                   |                             | Storefront/Glazing System - Interior Wall        | 30 | \$ 58.00    | SF |  | -      | \$ -       |    |      |
|                   | Interior Doors and Hardware | Aluminum-Framed Fully-Glazed - Interior Door     | 40 | \$ 2,104.00 | EA |  | 9      | \$ 18,936  | 0  | 100% |
|                   |                             | Steel - Interior Door                            | 40 | \$ 1,166.00 | EA |  | -      | \$ -       |    |      |
|                   |                             | Steel w/Glazing - Interior Door                  | 40 | \$ 1,854.00 | EA |  | -      | \$ -       |    |      |
|                   |                             | Wood Solid-Core - Interior Door                  | 40 | \$ 1,214.00 | EA |  | 100    | \$ 121,400 | 0  | 100% |
|                   |                             | Wood Solid-Core w/Glazing - Interior Door        | 40 | \$ 1,554.00 | EA |  | -      | \$ -       |    |      |
|                   | Wall Finishes               | Acoustical Paneling Interior Wall                | 25 | \$ 12.00    | SF |  | -      | \$ -       |    |      |
|                   |                             | Ceramic Tile Interior Wall                       | 40 | \$ 18.00    | SF |  | -      | \$ -       |    |      |
|                   |                             | Fiberglass Panel Interior Wall                   | 50 | \$ 12.00    | SF |  | -      | \$ -       |    |      |
|                   |                             | Quarry Tile Interior Wall                        | 50 | \$ 26.00    | SF |  | -      | \$ -       |    |      |
|                   |                             | Vinyl Interior Wall Covering                     | 15 | \$ 2.50     | SF |  | -      | \$ -       |    |      |
|                   |                             | Wood Interior Wall Paneling                      | 30 | \$ 12.00    | SF |  | -      | \$ -       |    |      |
| Site              | Modulars                    | Modular Bldg. - Classroom/Office - Basic         | 20 | \$ 115.00   | SF |  | -      | \$ -       |    |      |
|                   |                             | Modular Bldg. - Classroom/Office - Standard      | 20 | \$ 225.00   | SF |  | -      | \$ -       |    |      |
|                   | Relocatables                | Relocatable Bldg. - Classroom/Office - Basic     | 15 | \$ 110.00   | SF |  | -      | \$ -       |    |      |
|                   |                             | Relocatable Bldg. - Classroom/Office - Standard  | 15 | \$ 125.00   | SF |  | -      | \$ -       |    |      |
|                   | Site                        | Asphalt Pavement - Pedestrian                    | 30 | \$ 6.00     | SF |  | 8,100  | \$ 48,600  | 0  | 100% |
|                   |                             | Asphalt Pavement - Vehicular                     | 25 | \$ 6.50     | SF |  | 70,000 | \$ 455,000 | 0  | 100% |
|                   |                             | Athletic Surface - Artificial Turf               | 20 | \$ 13.38    | SF |  | -      | \$ -       |    |      |
|                   |                             | Athletic Surface - Lawn Area                     | 15 | \$ 0.48     | SF |  | 22,500 | \$ 10,700  | 0  | 100% |
|                   |                             | Concrete Pavement - Pedestrian                   | 50 | \$ 8.00     | SF |  | 20,000 | \$ 160,000 | 0  | 100% |
|                   |                             | Concrete Pavement - Vehicular                    | 50 | \$ 9.00     | SF |  | -      | \$ -       |    |      |
|                   |                             | Gravel Parking Lot                               | 7  | \$ 1.40     | SF |  | -      | \$ -       |    |      |
|                   |                             | Pavers - Pedestrian                              | 35 | \$ 33.00    | SF |  | -      | \$ -       |    |      |
|                   |                             | Pavers - Vehicular                               | 30 | \$ 33.00    | SF |  | -      | \$ -       |    |      |
|                   |                             | Playground Surface - Packed Sand                 | 20 | \$ 1.20     | SF |  | -      | \$ -       |    |      |
|                   |                             | Playground Surface - Rubber                      | 20 | \$ 21.00    | SF |  | -      | \$ -       |    |      |
|                   |                             | Playground Surface - Rubber Chips                | 20 | \$ 4.98     | SF |  | -      | \$ -       |    |      |
|                   |                             | Playground Surface - Wood Chips                  | 15 | \$ 0.90     | SF |  | 4,000  | \$ 3,600   | 11 | 27%  |
|                   |                             | Sports Courts, Asphalt                           | 15 | \$ 6.50     | SF |  | -      | \$ -       |    |      |
|                   |                             | Sports Courts, Concrete                          | 30 | \$ 12.00    | SF |  | -      | \$ -       |    |      |

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Comment:

Includes abatement and replacement

| System Group            | System                                            |
|-------------------------|---------------------------------------------------|
| Electrical Distribution | Electrical Service - MDP - High Density           |
| Electrical Distribution | Electrical Service - MDP - Low Density            |
| Electrical Distribution | Electrical Service - MDP - Medium Density         |
| Electrical Distribution | Electrical Service - MDP/Gen/UPS - High Density   |
| Electrical Distribution | Electrical Service - MDP/Gen/UPS - Low Density    |
| Electrical Distribution | Electrical Service - MDP/Gen/UPS - Medium Density |
| Electrical Distribution | Lighting - High Density & Standard Fixtures       |
| Electrical Distribution | Lighting - Low Density & Standard Fixtures        |
| Electrical Distribution | Lighting - Medium Density & Standard Fixtures     |
| Electrical Distribution | Lighting - Very High Density or High-End Fixtures |
| Electrical Distribution | Security & Low Voltage Systems - Average Density  |

|                         |                                                  |
|-------------------------|--------------------------------------------------|
| Electrical Distribution | Security & Low Voltage Systems - High Density    |
| Electrical Distribution | Switchgear w/Sub Panels - High Density           |
| Electrical Distribution | Switchgear w/Sub Panels - Low Density            |
| Electrical Distribution | Switchgear w/Sub Panels - Medium Density         |
| Electrical Distribution | Switchgear w/Sub Panels/Gen/UPS - High Density   |
| Electrical Distribution | Switchgear w/Sub Panels/Gen/UPS - Low Density    |
| Electrical Distribution | Switchgear w/Sub Panels/Gen/UPS - Medium Density |
| Life Safety             | Sprinkler System, High Density/Complexity        |
| Life Safety             | Sprinkler System, Low Density/Complexity         |
| Life Safety             | Sprinkler System, Medium Density/Complexity      |
| Plumbing Fixtures       | Supply & Sanitary, High Density (w/Fixtures)     |
| Plumbing Fixtures       | Supply & Sanitary, Low Density (w/Fixtures)      |
| Plumbing Fixtures       | Supply & Sanitary, Medium Density (w/Fixtures)   |

|                           |                                                  |
|---------------------------|--------------------------------------------------|
| Plumbing Fixtures         | Supply & Sanitary, Very Low Density (w/Fixtures) |
| Program Support Equipment | Commercial Kitchen Equipment - Cooking           |
| Program Support Equipment | Commercial Kitchen Equipment - Serving Only      |
| Program Support Equipment | Commercial Kitchen Equipment - Warming Only      |
| Program Support Equipment | Casework - Premium Quality                       |
| Program Support Equipment | Casework - Standard Quality                      |
| Program Support Equipment | Casework - Sub-Standard Quality                  |
| Modulars                  | Modular Bldg. - Classroom/Office - Basic         |
| Modulars                  | Modular Bldg. - Classroom/Office - Standard      |
| Relocatables              | Relocatable Bldg. - Classroom/Office - Basic     |
| Relocatables              | Relocatable Bldg. - Classroom/Office - Standard  |

## t Density Guidance

### Guidance Text

Technical high schools with dense laboratory configurations *could be* **High Density**, Assessor Discretion.

Outbuildings, pavilions, etc with light electrical systems (like a handful of outlets) should be low density.

Most schools will be **Medium Density**

If the building has *both* a UPS system and a large generator, consider **High Density**, especially if a technical high school with labs.

Outbuildings, pavilions, etc with light electrical systems (like a handful of outlets) but also have a small generator or UPS should be low density.

Most schools will be **Medium Density**, use this selection if they also have a generator and/or ups.

Schools with primarily LED lighting fixtures should be considered **High Density**.

Schools with typical surface mounted fluorescent lighting and incandescent type bulb fixtures (even with LED or CF retrofits) can be considered **Low Density**.

Schools with primarily suspended ceiling mounted fluorescent lighting fixtures (even with LED or CF retrofits) can be considered **Low Density**.

Schools with premium quality fixtures and higher lighting density should be classified as **Very High Density**

Most schools will be **Average Density**

Schools with sophisticated security systems or other Low Voltage systems may be **High Density**

Technical high schools with dense laboratory configurations *could be* **High Density**, Assessor Discretion.

Outbuildings, pavilions, etc with light electrical systems (like a handful of outlets) should be low density.

Most schools will be **Medium Density**

If the building has *both* a UPS system and a large generator, consider **High Density**, especially if a technical high school with labs.

Outbuildings, pavilions, etc with light electrical systems (like a handful of outlets) but also have a small generator or UPS should be low density.

Most schools will be **Medium Density**, use this selection if they also have a generator and/or ups.

Generally, schools that have complete sprinkler coverage should be **High Density**.

Schools with primarily stand-pipe systems and few sprinkler heads should be considered **Low Density**

Schools with partial sprinkler systems (like an addition that is fully sprinklered, while the original is not) should be **Medium Density**

Technical high schools with dense laboratory configurations *could be* **High Density**, Assessor Discretion.

Most schools will be **Low Density**

Schools with Locker Rooms/Showers and science labs should be **Medium Density**.

Outbuildings, pavilions, etc with light plumbing (like hose connections/and or drinking fountains) should be very low density.

A Cooking kitchen will be a “full kitchen” where food is stored, prepared, cooked and served.

A Serving Only kitchen is where food is brought in from the outside and immediately served. There are no cooking or rewarming equipment.

A Warming kitchen is where previously prepared and cooked food is brought in from the outside and where the food is then rewarmed and served on-site.

Premium quality casework is typically constructed of 100% solid  $\frac{3}{4}$ ” wood or metal materials. It is durable and stout, sometimes with glass front cabinets and stone or synthetic stone counters, if equipped.

Standard quality Casework is typically MDF type materials of  $\frac{3}{4}$ ” construction and may contain durable synthetic counters.

Sub-standard casework is constructed of materials  $\frac{1}{2}$ ” or less in thickness and may feature non-durable laminate or wood counters.

Modulars that are stand-alone, have “trailer” style finishes and lack typical building/classroom finishes will be considered Basic.

Most Modulars will be considered Standard if they feature typical building, finishes and are fairly indistinguishable from a typical building to the untrained eye.

Relocatables that are stand-alone, have “trailer” style finishes and lack platform access and/or heating/cooling will be considered Basic.

Most relocatables will be considered Standard if they feature skirting, platform access and typical building/classroom-type finishes.