Date April 20, 2023

To Town of Cumberland Planning Board

From Carla Nixon, Town Planner

Subject Site Plan Review MSAD # 51 Amendment re: Portable Classrooms

### 1. REQUEST/PROJECT DESCRIPTION:

The applicant is MSAD # 51. Scott Poulin, Director of Finance, Human Resources and Operations for the MSAD, is the representative. The proposal is for the addition of two new portable classroom buildings, a shade structure, a small concession stand, the re-location of a third portable classroom building and the removal of five existing portable classroom buildings on the existing school campus. Minor reconfiguration of other existing ancillary site improvements will be required to accommodate the new building locations. All proposed work is within the existing developed area of the site and there will be no expansion of the previously established limits of disturbance. The changes will be implemented in three phases. Phase 1 will involve work at the MIW school and is slated for completion in fall, 2023. Phase 2 will be for the portable changes to be done at GMS in 2024. Phase 3 will be the addition of the concession stand at GMS in 2024.

The parcel is shown on Cumberland Tax Assessor's Map U-11, Lot 1 and Lot 9.

The use, classified as an Accessory Building to a Municipal Use, is a permitted use in the Medium Density Residential (MDR) zoning district. The minimum lot size is 1 acre. The parcel is 51.4 acres in size. Setback Overlay 2 applies.

The design engineer is Andy Johnston, P.E. of Atlantic Resources Consultants. The representatives will be Patrick Carroll of Carroll Associates and Doug Breer of Stephen Blatt Architects. Dan Diffin, P.E., from Sevee and Maher Engineering has reviewed the plans for compliance with the Town of Cumberland's ordinances.

### 2. DESCRIPTION:

**Proposed Use:** Portable Classrooms

**Employees:** N/A **Parking:** N/A

Water and Sewer: From adjacent school building

**Floodplain:** Map # 230162 0015B - Designation: Zone C (area of minimal flooding) **Lighting:** No new lighting proposed. Existing lighting from school bldg. will

suffice.

**Fire Protection:** Hydrant on Main Street. Alarm system in portables.

### 3. OUTSIDE AGENCY APPROVALS: None required.

4. SECTION 229-4: WAIVERS AND MODIFICATIONS: Where the Planning Board or Town Planner finds that there are special circumstances of a particular plan that make a particular submission requirement or standard inapplicable, a waiver may be granted, provided that such waiver will not have the effect of nullifying the intent and purpose of the Comprehensive Plan. The applicant shall submit, in writing, the reason for the requested waiver. In granting waivers or modifications, the Planning Board or Town Planner may require such conditions that will substantially secure the objectives of the standards so waived or modified.

In support of the Site Plan Application submitted on behalf of MSAD 51, the Applicant requests the following Waivers to the Cumberland Site Plan Ordinance:

### Section 229-10-C. – Stormwater Management and Erosion Control

Waiver Request:. Stormwater Management. The proposed portable classrooms and other site development improvements are proposed over currently developed portions of the site, and current existing drainage patterns will be maintained. No newly developed areas will be disturbed as part of this project. The temporary structures are to be installed on concrete piers over existing ground (either paved or playground) replacing existing classroom structures that were installed on the site in 2021. Two small permanent structures (snack shack and shade structure) will be installed adjacent to the temporary buildings, resulting in a small increase in flows but negligible impact on overall stormwater management. Permanent stormwater management improvements will include stone drip strips along the eave sides of the temporary buildings to collect and treat any roof runoff from the buildings. Given the size and scope of the project and limited changes to the existing developed and impervious areas, a full stormwater study of runoff and routing calculations is not warranted for this project and a waiver of this Standard is requested.

<u>Waiver Request:</u> <u>Erosion Control.</u> Given the limited scope of this project, a full Erosion Control Narrative and Plan are unwarranted for this project. All disturbed areas of the site will be restored prior to completion and use of the facilities. We have included standard details for temporary erosion protection including Silt Fencing and Catch Basin Protection in the Application. A waiver to the Erosion Control Standards is requested for this project.

### Section 229-10-D. – Water, sewer, and fire protection

Waiver Request: Water, Sewer, and Fire Protection The 2023 Portable Classroom Project is intended to serve existing student population at Mabel I Wilson and Greely Middle Schools. Both Schools are served by Public Water from the Portland Water Company. The temporary Structures provide a total of 9 restrooms, allowing student use in each classroom building without having to travel to the main school building for use. Given that the student population is currently in the schools, an Ability to Serve Letter from PWD is unwarranted and we request a waiver to this Standard.

### Section 229-10-I. - Buffering and Landscaping

<u>Waiver Request:</u> Buffering and Landscaping. Several existing trees will be removed as part of this project, necessary to locate the temporary structures close to the existing school and allow appropriate space for relocating the Tuttletown Playground. The proposed site is internal to the school campus and minimally visible from a public right of way. We would request a waiver from any landscape or buffer requirements for this project.

### 5. ENGINEERING REVIEW AND COMMENTS RESPONSES:

April 14, 2023

Ms. Carla Nixon, Planner Cumberland Town Office 290 Tuttle Road Cumberland, ME 04021

RE: MSAD 51 – Mabel I. Wilson Elementary School + Greeley Middle School Modular Classroom Additions
Site Plan Review- Response to Peer Review Comments

Dear Carla,

On behalf of MSAD 51, we are pleased to provide the following responses to Peer Review comments by Dan Diffin of Sevee & Maher dated April 13, 2023:

#### **Comments:**

#### **Chapter 229: Site Plan Review**

Section 229.10.C Stormwater management and erosion control

1. Please provide details for the proposed water quality treatment measures including the roof drip strip filters and bioswales to demonstrate compliance with MEDEP Chapter 500.

<u>Response</u>: A detail for the roof drip strip filters is attached to this letter. We note that bioswales are not proposed for this project.

2. Please confirm that this project will not require an amendment to the existing Site Location of Development License for the school property. It appears that there will be more than 10,000 square feet of redevelopment resulting from this project and that the SLODA Exemption may not apply.

Response: The Campus has an existing SLODA Permit that was last amended in 2018 to include the Performing Arts Center. Attached are calculations that show improvements between 2018 and 2023 (current) created a total of 27,257 sf of impervious cover, and the proposed project will add another 15,880 sf of impervious area, totaling 43,137 sf over a five-year period. Site Law under Title 38, §488. Applicability – Section 27 provides an exemption for educational facilities where modifications do not exceed 40,000 sf in any calendar year, or a total of 80,000 sf. We believe that this project falls under that threshold and is eligible for the exemption.

Section 229-10-D. – Water, sewer, and fire protection

3. SME recommends the Applicant provide a letter from the Portland Water District to demonstrate adequate capacity to serve the increase in students included in the proposed expansion of classroom space.

<u>Response</u>: A letter has been forwarded to the MEANS GROUP at Portland Water District requesting a Letter of Capacity. We will forward their response to the Town when received. A copy of the request letter is included with this Response Letter.

#### **General Comments.**

1. The application form is not signed. Provide a signed application form.

Response: A signed copy of the Application is attached to this Response Letter.

### **Chapter 229 – SITE PLAN REVIEW**

### SECTION 10: APPROVAL STANDARDS AND CRITERIA

The following criteria shall be used by the Planning Board in reviewing applications for site plan review and shall serve as minimum requirements for approval of the application. The application shall be approved unless the Planning Board determines that the applicant has failed to meet one or more of these standards. In all instances, the burden of proof shall be on the applicant who must produce evidence sufficient to warrant a finding that all applicable criteria have been met.

### Chapter 229 - Site Plan Review, Section 10: Approval Standards and Criteria

The following criteria shall be used by the Planning Board in reviewing applications for site plan review and shall serve as minimum requirements for approval of the application. The application shall be approved unless the Planning Board determines that the applicant has failed to meet one or more of these standards. In all instances, the burden of proof shall be on the applicant who must produce evidence sufficient to warrant a finding that all applicable criteria have been met.

**A. Utilization of the Site:** Utilization of the Site - The plan for the development, including buildings, lots, and support facilities, must reflect the natural capabilities of the site to support development. Environmentally sensitive areas, including but not limited to, wetlands, steep slopes, floodplains, significant wildlife habitats, fisheries, scenic areas, habitat for rare and endangered plants and animals, unique natural communities and natural areas, and sand and gravel aquifers must be maintained and preserved to the maximum extent. The development must include appropriate measures for protecting these resources, including but not limited to, modification of the proposed design of the site, timing of construction, and limiting the extent of excavation.

The proposed portable classroom building at MIW and GMS will be located on existing developed areas with direct access to building support services. The existing Tuttle Town playground will be relocated to the outfield of the softball field and MIW and enlarged, along with the addition of a shade structure. The additional hard play area and Pre-K play area are also being located on areas previously developed adjacent to support services and building access. The proposed concession stand will be located at the west end of the football field adjacent to other associated buildings with similar needs with direct access to the access way through the campus.

Based on the above findings of fact, the Planning Board finds the standards of this section have been met.

### B. Traffic, Circulation and Parking

- (1) Traffic Access and Parking. Vehicular access to and from the development must be safe and convenient.
- (a) Any driveway or proposed street must be designed so as to provide the minimum sight distance according to the Maine Department of Transportation standards, to the maximum extent possible.
- **(b)** Points of access and egress must be located to avoid hazardous conflicts with existing turning movements and traffic flows.
- (c) The grade of any proposed drive or street must be not more than + 3% for a minimum of two (2) car lengths, or forty (40) feet, from the intersection.
- (d) The intersection of any access/egress drive or proposed street must function: (a) at a Level of Service D, or better, following development if the project will generate one thousand (1,000) or more vehicle trips per twenty-four (24) hour period; or (b) at a level which will allow safe access into and out of the project if less than one thousand (1,000) trips are generated.
- **(e)** Where a lot has frontage on two (2) or more streets, the primary access to and egress from the lot must be provided from the street where there is less potential for traffic congestion and for traffic and pedestrians hazards. Access from other streets may be allowed if it is safe and does not promote short cutting through the site.

- **(f)** Where it is necessary to safeguard against hazards to traffic and pedestrians and/ or to avoid traffic congestion, the applicant shall be responsible for providing turning lanes, traffic directional islands, and traffic controls within public streets.
- **(g)** Access ways must be designed and have sufficient capacity to avoid queuing of entering vehicles on any public street.
- (h) The following criteria must be used to limit the number of driveways serving a proposed project:
- (1) No use which generates less than one hundred (100) vehicle trips per day shall have more than one (1) two-way driveway onto a single roadway. Such driveway must be no greater than thirty (30) feet wide.
- (2) No use which generates one hundred (100) or more vehicle trips per day shall have more than two (2) points of entry from and two (2) points of egress to a single roadway. The combined width of all access ways must not exceed sixty (60) feet.

### (2) Access way Location and Spacing

Access ways must meet the following standards:

- (a) Private entrance / exits must be located at least fifty (50) feet from the closest un-signalized intersection and one hundred fifty (150) feet from the closest signalized intersection, as measured from the point of tangency for the corner to the point of tangency for the access way. This requirement may be reduced if the shape of the site does not allow conformance with this standard.
- **(b)** Private access ways in or out of a development must be separated by a minimum of seventy-five (75) feet where possible.
- **(3) Internal Vehicular Circulation.** The layout of the site must provide for the safe movement of passenger, service, and emergency vehicles through the site.
- (a) Projects that will be served by delivery vehicles must provide a clear route for such vehicles with appropriate geometric design to allow turning and backing.
- **(b)** Clear routes of access must be provided and maintained for emergency vehicles to and around buildings and must be posted with appropriate signage (fire lane no parking).
- **(c)** The layout and design of parking areas must provide for safe and convenient circulation of vehicles throughout the lot.
- (d) All roadways must be designed to harmonize with the topographic and natural features of the site insofar as practical by minimizing filling, grading, excavation, or other similar activities which result in unstable soil conditions and soil erosion, by fitting the development to the natural contour of the land and avoiding substantial areas of excessive grade and tree removal, and by retaining existing vegetation during construction. The road network must provide for vehicular, pedestrian, and cyclist safety, all season emergency access, snow storage, and delivery and collection services.
- (4) Parking Layout and Design. Off street parking must conform to the following standards:
- (a) Parking areas with more than two (2) parking spaces must be arranged so that it is not necessary for vehicles to back into the street.
- **(b)** All parking spaces, access drives, and impervious surfaces must be located at least fifteen (15) feet from any side or rear lot line, except where standards for buffer yards require a greater distance. No parking spaces or asphalt type surface shall be located within fifteen (15) feet of the front property line. Parking lots on adjoining lots may be connected by accessways not exceeding twenty-four (24) feet in width.
- (c) Parking stalls and aisle layout must conform to the following standards.

Parking	Stall	Skew	Stall	Aisle
Angle	Width	Width	Depth Width	
90°	9'-0"		18'-0"	24'-0" 2-way
60°	8'-6"	10'-6"	18'-0"	16'-0" 1-way
45°	8'-6"	12'-9"	17'-6"	12'-0" 1-way
30°	8'-6"	17'-0"	17'-0"	12'-0" 1 way

- **(d)** In lots utilizing diagonal parking, the direction of proper traffic flow must be indicated by signs, pavement markings or other permanent indications and maintained as necessary.
- **(e)** Parking areas must be designed to permit each motor vehicle to proceed to and from the parking space provided for it without requiring the moving of any other motor vehicles.

(f) Provisions must be made to restrict the "overhang" of parked vehicles when it might restrict traffic flow on adjacent through roads, restrict pedestrian or bicycle movement on adjacent walkways, or damage landscape materials.

### (5) Building and Parking Placement

- (a) The site design should avoid creating a building surrounded by a parking lot. Parking should be to the side and preferably in the back. In rural, uncongested areas buildings should be set well back from the road so as to conform to the rural character of the area. If the parking is in front, a generous, landscaped buffer between road and parking lot is to be provided. Unused areas should be kept natural, as field, forest, wetland, etc.
- **(b)** Where two or more buildings are proposed, the buildings should be grouped and linked with sidewalks; tree planting should be used to provide shade and break up the scale of the site. Parking areas should be separated from the building by a minimum of five (5) to ten (10) feet. Plantings should be provided along the building edge, particularly where building facades consist of long or unbroken walls.
- **(6) Pedestrian Circulation:** The site plan must provide for a system of pedestrian ways within the development appropriate to the type and scale of development. This system must connect the major building entrances/ exits with parking areas and with existing sidewalks, if they exist or are planned in the vicinity of the project. The pedestrian network may be located either in the street right-of-way or outside of the right-of-way in open space or recreation areas. The system must be designed to link the project with residential, recreational, and commercial facilities, schools, bus stops, and existing sidewalks in the neighborhood or, when appropriate, to connect the amenities such as parks or open space on or adjacent to the site.

There are no proposed changes to the existing site circulation, parking areas or pedestrian ways. All ramps and stairs from the new modular units will connect to existing paved walkways and hard surface areas.

Based on the above findings of fact, the Planning Board finds the standards of this section have been met.

### C. Stormwater Management and Erosion Control

- (1) Stormwater Management. Adequate provisions must be made for the collection and disposal of all stormwater that runs off proposed streets, parking areas, roofs, and other surfaces, through a stormwater drainage system and maintenance plan, which must not have adverse impacts on abutting or downstream properties.
- (a) To the extent possible, the plan must retain stormwater on the site using the natural features of the site.
- **(b)** Unless the discharge is directly to the ocean or major river segment, stormwater runoff systems must detain or retain water such that the rate of flow from the site after development does not exceed the predevelopment rate.
- **(c)** The applicant must demonstrate that on and off-site downstream channel or system capacity is sufficient to carry the flow without adverse effects, including but not limited to, flooding and erosion of shoreland areas, or that he / she will be responsible for whatever improvements are needed to provide the required increase in capacity and / or mitigation.
- **(d)** All natural drainage ways must be preserved at their natural gradients and must not be filled or converted to a closed system unless approved as part of the site plan review.
- **(e)** The design of the stormwater drainage system must provide for the disposal of stormwater without damage to streets, adjacent properties, downstream properties, soils, and vegetation.
- **(f)** The design of the storm drainage systems must be fully cognizant of upstream runoff which must pass over or through the site to be developed and provide for this movement.
- **(g)** The biological and chemical properties of the receiving waters must not be degraded by the stormwater runoff from the development site. The use of oil and grease traps in manholes, the use of on-site vegetated waterways, and vegetated buffer strips along waterways and drainage swales, and the reduction in use of deicing salts and fertilizers may be required, especially where the development stormwater discharges into a gravel aguifer area or other water supply source, or a great pond.

### (2) Erosion Control

(a) All building, site, and roadway designs and layouts must harmonize with existing topography and conserve desirable natural surroundings to the fullest extent possible, such that filling, excavation and earth moving activity must be kept to a minimum. Parking lots on sloped sites must be terraced to avoid undue cut and fill, and / or the need for retaining walls. Natural vegetation must be preserved and protected wherever possible.

(b) Soil erosion and sedimentation of watercourses and water bodies must be minimized by an active program meeting the requirements of the Maine Erosion and Sediment Control Handbook for Construction: Best Management Practices, dated March 1991, and as amended from time to time.

All existing drainage patterns will be maintained wherever possible. The temporary modular classroom buildings are installed on concrete piers/pads over existing grade which allows existing drainage to move under them with no disturbance of existing patterns. Four-foot wide drip edges along each long side of the new and related portables will be installed.

Erosion control measures including silt fence and silt sack catch basin inlet devices are proposed and detailed. The buildings will be placed over existing developed surfaces.

Based on the above findings of fact, the Planning Board finds the standards of this section have been met.

- (D) Water, Sewer, and Fire Protection
- (1) Water Supply Provisions: The development must be provided with a system of water supply that provides each use with an adequate supply of water. If the project is to be served by a public water supply, the applicant must secure and submit a written statement from the supplier that the proposed water supply system conforms with its design and construction standards, will not result in an undue burden on the source of distribution system, and will be installed in a manner adequate to provide needed domestic and fire protection flows.
- **(2) Sewage Disposal Provisions:** The development must be provided with a method of disposing of sewage which is in compliance with the State Plumbing Code. If provisions are proposed for on-site waste disposal, all such systems must conform to the Subsurface Wastewater Disposal Rules.
- (3) Utilities: The development must be provided with electrical, telephone, and telecommunication service adequate to meet the anticipated use of the project. New utility lines and facilities must be screened from view to the extent feasible. If the service in the street or on adjoining lots is underground, the new service must be placed underground.
- **(4) Fire Protection:** The site design must comply with the Fire Protection Ordinance. The Fire Chief shall issue the applicant a "Certificate of Compliance" once the applicant has met the design requirement of the Town's Fire Protection Ordinance.

Public water and sewer connections will be made to each of the modular classroom buildings. A new sewer service will be required for the concession stand. Underground power and communication service will connect all modular classroom buildings with the existing school buildings. Power will be connected to the concession stand. A letter from the Portland Water District indicating capacity to serve is a proposed condition of approval.

All portable classrooms will be fully accessible by emergency vehicles and personnel. A minimum 20' clear zone has been maintained between the buildings and the existing school. Sprinkler service connections are proposed to each of the modular classroom buildings.

Based on the above findings of fact, and the proposed condition of approval, the Planning Board finds the standards of this standard have been met.

#### E. Water Protection

(1) **Groundwater Protection:** The proposed site development and use must not adversely impact either the quality or quantity of groundwater available to abutting properties or to the public water supply systems.

Applicants whose projects involve on-site water supply or sewage disposal systems with a capacity of two thousand (2,000) gallons per day or greater must demonstrate that the groundwater at the property line will comply, following development, with the standards for safe drinking water as established by the State of Maine.

- (2) Water Quality: All aspects of the project must be designed so that:
- (a) No person shall locate, store, discharge, or permit the discharge of any treated, untreated, or inadequately treated liquid, gaseous, or solid materials of such nature, quantity, obnoxious, toxicity, or temperature that may run off, seep, percolate, or wash into surface or groundwaters so as to contaminate, pollute, or harm such waters or cause nuisances, such as objectionable shore deposits, floating or submerged debris, oil or scum, color, odor, taste, or unsightliness or be harmful to human, animal, plant, or aquatic life.
- **(b)** All storage facilities for fuel, chemicals, chemical or industrial wastes, and biodegradable raw materials, must meet the standards of the Maine Department of Environmental Protection and the State Fire Marshall's Office.
- **(3) Aquifer Protection:** If the site is located within the Town Aquifer Protection Area, a positive finding by the Board that the proposed plan will not adversely affect the aquifer is required.

The modular classrooms are served by public water and sewer and will not impact any groundwater sources on adjacent properties. No hazardous materials are proposed to be used at this site. The site is not located within the Town Aquifer Protection Area.

Based on the above finding of fact, the Planning Board finds that the standards of this section have been met.

**F. Floodplain Management:** If any portion of the site is located within a special flood hazard area as identified by the Federal Emergency Management Agency, all use and development of that portion of the site must be consistent with the Town's Floodplain management provisions.

The project is not located within a special flood hazard area as identified in the latest FEMA flood maps.

Based on the above finding of fact, the Planning Board finds the standards of this section have been met.

**G. Historic and Archaeological Resources:** If any portion of the site has been identified as containing historic or archaeological resources, the development must include appropriate measures for protecting these resources, including but not limited to, modification of the proposed design of the site, timing of construction, and limiting the extent of excavation.

There are letters on file from previous site plan applications) stating that the Maine Historic Preservation Commission has not found there to be any historical or archaeological resources present on the site of the school campus.

Based on the above finding of fact, the Planning Board finds the standards of this section have been met.

#### H. Exterior Lighting:

The proposed development must have adequate exterior lighting to provide for its safe use during nighttime hours, if such use is contemplated. All exterior lighting must be designed and shielded to avoid undue glare, adverse impact on neighboring properties and rights - of way, and the unnecessary lighting of the night sky.

No new exterior lighting is proposed other than that provided by lights at either ends of the portables. School uses are proposed to occur during daytime hours. The existing school buildings have several wall mounted lights that provide security lighting for the hard surface play area and internal walkways.

Based on the above findings of fact, the Planning Board finds the standards of this section have been met.

### I. Buffering and Landscaping

- (1) Buffering of Adjacent Uses: The development must provide for the buffering of adjacent uses where there is a transition from one type of use to another use and for the screening of mechanical equipment and service and storage areas. The buffer may be provided by distance, landscaping, fencing, changes in grade, and / or a combination of these or other techniques.
- **(2) Landscaping:** Landscaping must be provided as part of site design. The landscape plan for the entire site must use landscape materials to integrate the various elements on site, preserve and enhance the particular identity of the site, and create a pleasing site character. The landscaping should define street edges, break up parking areas, soften the appearance of the development, and protect abutting properties.

The proposed project site is within the interior of the campus and is limited visually from abutting properties. Given their temporary nature, the installation of landscaping to buffer the portables is not feasible.

Based on the above findings of fact, the Planning Board finds the standards of this section have

**J. Noise:** The development must control noise levels such that it will not create a nuisance for neighboring properties.

The portables will not generate noise that would affect neighboring properties.

Based on the above findings of fact, the Planning Board finds the standards of this section have been met.

### K. Storage of Materials

- (1) Exposed nonresidential storage areas, exposed machinery, and areas used for the storage or collection of discarded automobiles, auto parts, metals or other articles of salvage or refuse must have sufficient setbacks and screening (such as a stockade fence or a dense evergreen hedge) to provide a visual buffer sufficient to minimize their impact on abutting residential uses and users of public streets.
- **(2)** All dumpsters or similar large collection receptacles for trash or other wastes must be located on level surfaces which are paved or graveled. Where the dumpster or receptacle is located in a yard which abuts a residential or institutional use or a public street, it must be screened by fencing or landscaping.
- (3) Where a potential safety hazard to children is likely to arise, physical screening sufficient to deter small children from entering the premises must be provided and maintained in good condition.

The application states that an existing dumpster will be utilized, but it is not shown on the site plan. The plan shall be amended to show the location and details of the dumpster(s). This is a proposed condition of approval.

Based on the above findings of fact, the Planning Board finds the standards of this section have been met.

**L. Capacity of the Applicant:** The applicant must demonstrate that he / she has the financial and technical capacity to carry out the project in accordance with this ordinance and the approved plan.

<u>Technical Ability:</u> The applicant has retained an architect, landscape architect, civil engineer and surveyor to assist in preparing the site plan.

**<u>Financial Capacity:</u>** The leasing of the portables will be paid for from the operating budget of the MSAD.

Based on the above findings of fact, the Planning Board finds the standards of this section have been met.

### M. Design and Performance Standards

- (1) Route 100 Design Standards
- (2) Route 1 Design Standards
- (3) Town Center District Design and Performance Standards
- (4) Village Mixed Use Performance Standards.

None of the above are applicable to this project.

### VIII. STANDARD CONDITIONS OF APPROVAL:

This approval is dependent upon and limited to the proposals and plans contained in the application and supporting documents submitted by the applicant. Any variation from the plans, proposals and supporting documents, except deminimus changes as so determined by the Town Planner which do not affect approval standards, is subject to review and approval of the Planning Board prior to implementation.

### IX. LIMITATION OF APPROVAL:

Construction of the improvements covered by any site plan approval must be substantially commenced within twelve (12) months of the date upon which the approval was granted. If construction has not been substantially commenced and substantially completed within the specified period, the approval shall be null and void. The applicant may request an extension of the approval deadline prior to expiration of the period. Such request must be in writing and must be made to the Planning Board. The Planning Board may grant up to two (2) 1 year extensions to the periods if the approved plan conforms to the ordinances in effect at the time the extension is granted and any and all federal and state approvals and permits are current.

### **Proposed Conditions of Approval:**

- 1. All local permits such as building, plumbing and electrical shall be obtained from the CEO prior to the placement of the portables.
- 2. A letter from the Portland Water District stating capacity to serve is required prior to the issuance of a building permit.
- 3. A revised plan showing the location and details of the dumpster(s) is required prior to issuance of a building permit.

# MABEL I. WILSON ELEMENTARY SCHOOL

&

## **GREELEY MIDDLE SCHOOL**

## **MODULAR CLASSROOM ADDITIONS**

MSAD 51

Cumberland, Maine

# APPLICATION FOR SITE PLAN REVIEW

Prepared By:

Stephen Blatt Architects

5 South Street

Portland, ME 04101

and

**Carroll Associates** 

217 Commercial Street

Portland, ME 04101

Submitted to Town of Cumberland

April 3, 2023

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1) cover letter



April 3, 2023

Ms. Carla Nixon, Planner Cumberland Town Office 290 Tuttle Road Cumberland, ME 04021

RE: MSAD 51 – Mabel I. Wilson Elementary School + Greeley Middle School Modular Classroom Additions Site Plan Review

Dear Carla,

On behalf of MSAD 51, we are pleased to submit the attached Site and Architectural Plans along with supporting documents for the proposed Modular Classroom Addition at the Mable I Wilson Elementary School (MIW) and at the Greely Middle School (GMS). The proposed addition is necessary to provide adequate classroom space for the ever-growing student body and staff. Interior renovations have maximized the amount of interior space that can be expanded for classroom space, and these temporary, modular classroom structures are necessary to meet the current demand.

The proposed project entails:

### Mabel I Wilson Elementary School

- 1. Removal of the two existing 2-classroom modulars that are located on the infield of the softball field:
- 2. <u>Relocation</u> of the existing 10-classroom modular that is located between the existing Tuttle Town Playground and existing portables, to a new location over the existing Tuttle Town Playground;
- 3. <u>Addition</u> of a new 12-classroom modular building, to be located parallel to Campus Drive between the relocated 10-classroom and the pump house;
- 4. <u>Relocation and expansion of the Tuttle Town Playground to the outfield of the softball field along with the installation of new equipment.</u>
- 5. <u>Addition</u> of a shade structure (30'X50') adjacent to the relocated playground, similar to the existing shade structure at the Middle School.
- 6. Addition of a Pre-K play space and general use hard play area.

### **Greely Middle School**

- 1. <u>Removal</u> of the three existing 2-classroom modulars that are located on the outfield of the softball field:
- 2. <u>Addition</u> of a new 10-classroom modular building, to be located in place of the existing 2-classroom modulars:
- 3. Addition of a new (18'x18') concessions stand.

The modular classroom buildings are approximately (68'wide x 148' long for the 10-classroom cluster and 68' wide x 180' long for the new 12-classroom cluster). The buildings are proposed to be sited on relatively level ground adjacent to convenient delivery access, on previously developed land, and adjacent to adequate utility infrastructure, for the most part. The modular classroom buildings are configured with a central, double loaded corridor with bathrooms and utilities in the middle, and an accessible ramp on one end/entry and egress steps out at the opposite end/entry. All modular classroom buildings will be

Title: MSAD 51: Mabel I Wilson Elementary School + Greely Middle School

Modular Classroom Additions

Date: April 3, 2023

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connected with underground power + telcoms, natural gas, domestic water and sprinkler systems and sewer. The location of the buildings has been determined based upon code restrictions (min. 20-foot separation), required maneuverability for their installation, and need to provide adequate fire protection around the school buildings. The classroom buildings are also located to minimize any visual impact from Tuttle Road or the School entrances. The modular classrooms are all to be leased to the District and their cost will be funded from ongoing yearly operating budgets.

No major changes to the overall School sites are anticipated. No new vehicular circulation or parking are required or proposed to support this project. The modular classroom buildings will be connected to the existing school, relocated Tuttle Town Playground, parking, fields, etc. by reuse of existing paved areas or by new walkways.

All existing drainage patterns will be maintained wherever and whenever possible. The temporary modular classroom buildings are installed on concrete piers/pads over existing grade, which allows existing drainage to move under them with no disturbance of existing patterns. As such, construction disturbance is minimal. We propose to install four-foot-wide drip edges along each long side of the new and re-located portables. These will be designed to Chapter 500 and provide underdrains that connect to the existing storm system. If any other impervious are added, we can grade these areas to drain to small bio-cells to provide treatment.

The existing school buildings have several wall-mounted lights that provide security lighting for the hard surface play area and internal walkways, and it is anticipated these lights will remain and provide adequate lighting for the core area. The modular classroom buildings have light at their ends for egress safety and at regular intervals along their lengths.

Finally at the Middle School an 18'x18' concessions stand is proposed to be located adjacent to the existing snack bar at the football field.

The proposed improvements described above will be phased in over the next two years. The anticipated phasing timeline is as follows:

- 1. <u>Phase 1.0 (2023):</u> MIW Remove two existing 2-classroom portables, relocate 10-classroom portable and add 12-classroom portable. Relocate Tuttle Town playground and add shade structure.
- 2. <u>Phase 1.1 (2024):</u> GMS Remove three existing 2-classroom portables and add 10-classroom portable.
- Phase 1.2 (2024): GMS Add concessions stand

We are requesting Site Plan Review with the Planning Board at the meeting on April 25th, with the requirement of securing approval in time to install the classroom buildings at MIW prior to the start of the 2023-2024 school year. This project embodies the commitment by MSAD 51 to provide safe educational facilities for all of its students and staff, and the District is excited about the opportunities that this will bring to students in the coming school year. Attached you will find a package of plans and support documents which illustrate the proposed buildings and site development. Please do not hesitate to contact me if you have any questions or need additional information.

Title: MSAD 51: Mabel I Wilson Elementary School + Greely Middle School

Modular Classroom Additions

Date: April 3, 2023

Page: 3

### Regards,

**CARROLL ASSOCIATES** 

Patrick J. Carroll, Principal

Enc.

CC: Jeff Porter, MSAD 51

Scott Poulin, MSAD 51 Doug Breer, SBA Andy Johnston, ARC

This submission consists of the following:

### Exhibits: (1) paper copy and (1) pdf

- 1 Cover Letter
- 2 Application: Site Plan Review, Appendix C
- 3 Application: Submission Checklist
- 4 Letter of Authorization
- 5 Letter of Financial Capacity
- 5.1 Project Directory
- 6 Abutters Map
- 6.1 Abutters Addresses
- 7 Map: Overlay Zoning
- 8 Site Plan Standards Responses
- 9 Stormwater Management Narrative

### Plans: (1) 24"x36" paper set of plans and (1) pdf

### S-2.0 Survey

- L-1.0 Existing Conditions Plan
- L-2.0 Site Layout Plan: MIW
- L-2.1 Site Layout Plan: GMS
- L-3.0 Site Utility Plan: MIW
- L-3.1 Site Utility Plan: GMS
- L-4.0 Phasing
- L-5.0 Site Details
- A1.0 Stair, Ramp + Mounting Height Details
- A10.1 10 Classroom Portable: Cover Sheet
- A10.2 10 Classroom Portable: Floor Plan
- A10.3 10 Classroom Portable: Cross Section
- A10.4 10 Classroom Portable: Foundation
- A12.1 12 Classroom Portable: Floor Plan
- A12.2 12 Classroom Portable: Elevation

# $\mathbf{2}$ ) application

### SITE PLAN REVIEW

### 229 Attachment 3

### **Town of Cumberland**

# Appendix C Planning Board Site Plan Review Application [Amended 7-26-2021; 10-24-2022]

Applicant's name MS	AD 51			
Applicant's address	357 Tuttle Road, Cumberla	nd, Mair	ne	
Cell phone	Home phone		Office phone	207-829-4800
	Tuttle Road, Cumberland			
	51 Modular Classroom Ad			
Describe project _ <b>See</b>	cover letter for details			
Number of employees	N/A			
Days and hours of ope	ration Mon-Fri : regular sch	nool hou	ırs	
Project review and not	ice fee N/A			
	Scott Poulin, Director of			
Contact information: C	Cell:	Office:	207-829-48	300
What is the applicant's	interest in the property?			
Own X Lease _	Purchase and sale agree	ment	(provide co	opy of document)
Boundary Survey Submitted? Yes X	No			
Are there any deed res and show easement loo	trictions or easements? Yeseation on site plan.	No _	X If yes, pr	ovide information
Will they be removed:	dings on the site? Yes X No (Note:	A demo	lition permit is	s required 10 days
Describe: (2) new port Number of new buildin Square footage See b	O	IIW + GN cture at	relcoated Tutt	on stand @ GMS and shade tle Town playground @ MIV
1 - 12 1 - 10 1 - co	classroom building @ 68'W x classroom building @ 68'W x ncessions stand @ 18'W x 18 ade structure @ 30'W x 50' =	180'L = 148'L =	12,240 sf (MIV	IS) IS)

### CUMBERLAND CODE

Parking
Number of existing parking spaces 188 PS
Number of new parking spaces No new parking is proposed
Number of handicapped spaces <u>unknown</u>
Each portable classroom will have at a min. one (1) fully accessible entrance and a total of two
Entrance (2) end egress doors with stairs
Width _* Length _* * varies, see Site Plans and modular classroom plans
Is it paved? Yes No If not, do you plan to pave it? Wood stairs and ramps will connect
Where will snow storage for entrance and parking be located? Show on site plan. to existing paved areas  Adjacent lawn areas, see Site Plans
Utilities
Water: Public waterX Well (Show location on site plan.)
Sewer/septic: Public sewer X Private septic Show location on site plan and submit
HHE-200 septic design or location of passing test pit locations if new system is proposed. Also
show any wells on abutting properties within 200 feet of the site.
Electric: On site? Yes X No
Show location of existing and proposed utilities on the site plan and indicate if they are above
or below ground. See L-3.0 + L-3.1
Signs N/A
Number: Number:
Number: N/A Size: Material:
Submit sign design and completed sign application.
Will the sign be lighted? Submit information on type and wattage of lights.
Show location of sign(s) on the site plan.
show recurrent of sign(e) on the site plan.
Natural Features
Show location of any of the following on the site plan:
River N/A Stream N/A Wetland N/A Pond N/A Lake N/A Stone walls N/A
Are there any other historic or natural features? <b>NO</b>
Lighting
Will there be any exterior lights? Yes X No Show location on site plan (e.g., pole
fixtures, wall packs on building) and provide fixture and lumen information. See Modular Classroom Plans
Trees
Show location of existing trees on the site plan and indicate if any are to be removed. See Site Plans
blow location of existing nees on the site plan and maleute if any are to be femoved.
Landscaping
Is there existing landscaping on the site? Yes X No Show type and location on site
plan.
Is new landscaping proposed? (Note: if property has frontage on Route 100, a twenty-five-foot
landscape easement to the Town is required.) A few trees will be removed for the modular classrooms.
They are not proposed to be replaced at this time.

### SITE PLAN REVIEW

Buffering
Show any existing or proposed buffering measures for adjacent properties, e.g., plantings,
fences. See Site Plans
Erosion Control
Has an erosion and sedimentation control plan been submitted in accordance with Chapter 242,
Article III? Yes $\underline{\hspace{1cm}}$ No $\underline{\hspace{1cm}}$ Silt fence + silt sack sediment capture devices are proposed
Stormwater Management Plan/Low Impact Development
Has stormwater information been submitted in accordance with Chapter 242, Article II, Post
Construction Stormwater Management and Article IV, Low Impact Development?
Yes No X Existing site drainage patterns to be maintained and drip edges are proposed
Fire Protection Intersection of Campus Drive + MIW driveway
Location of nearest hydrant X Sprinklers? Ves. X No.
Location of nearest hydrant X Sprinklers? Yes X No Please contact the Fire/EMS
Department at 829-4573 to discuss any Town or state requirements.
Department at 627-4373 to discuss any Town of state requirements.
Trash
Will trash be stored inside <b>X</b> outside . If outside, will a dumpster be used?
Yes No Show location on site plan and show type of screening proposed
(e.g., fencing, plantings).
(c.g., renemg, plantings).
Technical Capacity
List and provide contact information for all consultants who worked on the project, for
example: licensed land surveyor, licensed soils evaluator, professional engineer, attorney, etc.
See Exhibit 5.1
Financial Capacity
Please indicate how project will be financed. If obtaining a bank loan, provide a letter from the
bank See Exhibit 5, Financial Ability. Project will be funded through on-going capital
budgets, no new financing will be required for this project

### CUMBERLAND CODE

•	Zoning district: _MDR . MSAD Campus
•	Minimum lot size: _1 AC
•	Classification of proposed use: _SCHOOL / INSTITUTIONAL
•	Parcel size: _51.4 AC
•	Frontage: _SEE BOUNDARY SURVEY
•	Setbacks: Front* Side* Rear* * SEE SITE PLANS
•	Setbacks: Front _* _ Side _* _ Rear _* _ * SEE SITE PLANS Board of Appeals Required? _NO
•	Tax Map _U11 Lot9 Deed book Deed page
•	Tax Map _U11 Lot9 Deed book Deed page Ploodplain map number Designation Vernal pool identified? NO
•	Vernal pool identified?NO
•	Is parcel in a subdivision?NO
•	Outside agency permits required:
	MDEP Tier 1 NO MDEP Tier 2 Army Corps of Engineers —
•	MDEP general construction (stormwater) permit (for disturbance of 1 acre or more)
	MDOT entrance permitNO
•	MDOT traffic movement permitNO
•	Traffic study required NO
•	Hydrogeologic evaluationNO
•	Market studyNO
•	Route 1 Design Guidelines? NU
•	Route 100, VMU or TCD Design Standards?NO
D	logge provide two pener copies of a complete application peaket with full size plan sets and
	lease provide two paper copies of a complete application packet with full-size plan sets and ne electronic application packet.
O	ile electionic application packet.
Α	pplicant's signature
	<del>-</del>
S	ubmission date: APRIL 3, 2023

3) application checklist

# PLANNING BOARD SITE PLAN REVIEW SUBMISSION CHECKLIST

## **FOR ALL PROJECTS:**

Submission Requirement	Provide Location in Application Packet (e.g., plan sheet number, binder section, narrative	If requesting a waiver, indicate below:
Example: Erosion Control	Plan Sheet E-1	
General Information:		
Completed Site Plan Application Form	TAB 2 - APPLICATION	
Names and addresses of all consultants	TAB 5 – PROJECT DIRECTORY	
Narrative describing existing conditions and the proposed project	TAB 1 – COVER LETTER	
Evidence of right, title or interest (deed, option, etc.)	S-2.0 SURVEY	
Names and Addresses of all property owners within 200 feet	TAB 6 – ABUTTERS MAP / LIST	
Boundaries of all contiguous property under control of owner	S-2.0 SURVEY	
Tax map and lot numbers	S-2.0 SURVEY	
Area of the parcel	S-2.0 SURVEY	
FEMA Floodplain designation & map #	'A' FLOOD ZONE	
Zoning classification	TAB 7 – ZONING & OVERLAY MAPS	
Evidence of technical and financial capability to carry out the project	TAB 5 – TECH + FINANICAL ABILITY	
Boundary survey	S-2.0 SURVEY	
List of waiver requests on separate sheet with reason for request.	TAB 1 - COVER LETTER	
Proposed solid waste disposal plan	CONTINUED USE OF EX DUMPSTER	RS
	WASTE GOES TO ECO-MAINE	
<b>Existing Conditions Plan showing:</b>		
Name, registration number and seal of person who prepared plan	S-2.0 SURVEY	
North arrow, date, scale, legend	S-2.0 SURVEY	
Area of the parcel	S-2.0 SURVEY	
Setbacks and building envelope	L-2.0 SITE LAYOUT PLAN	
Utilities, including sewer & water, culverts & drains, on-site sewage	N/A	
Location of any septic systems	N/A	
Location, names, widths of existing public or private streets ROW's	S-2.0 SURVEY	

Location, dimension of ground floor	NI/A	
elevation of all existing buildings	N/A	
Clovation of an existing bandings		
Location, dimension of existing	S-2.0 SURVEY	
driveways, parking, loading,		
walkways	L-2.0 SITE LAYOUT PLAN	
Location of intersecting roads &	C 2 O CLIDVEV	
driveways within 200 feet of the site	S-2.0 SURVEY	
Wetland areas	N/A	
Natural and historic features such as		
water bodies, stands of trees,	N/A	
streams, graveyards, stonewalls,	,	
floodplains		
Direction of existing surface water	S-2.0 SURVEY	
drainage across the site & off site		
Location, front view, dimensions and	N/A	
lighting of existing signs	.,,	
Location and dimensions of existing	N/A	
easements & copies of documents		
Location of nearest fire hydrant or	L-2.0 SITE LAYOUT PLAN	
water supply for fire protection		
Proposed Development Site Plan		
showing:		
Name of development	ALL PLANS	
Date	ALL PLANS	
North arrow	ALL PLANS	
Scale	ALL PLANS	
Legend	N/A	
Landscape plan	N/A	
Stormwater management	TAB 9 SWM + SITE PLANS	
Wetland delineation	N/A	
Current & proposed stands of trees	N/A	
Erosion control plan	SITE PLANS	
Landscape plan	N/A	
Lighting/photometric plan	N/A	
Location and dimensions of all	L-2.0 + L-2.1	
proposed buildings		
Location and size of utilities, including	L-3.0 + L-3.1	
sewer, water, culverts and drains		
Location and dimension of proposed	N/A	
on-site septic system; test pit		
locations and nitrate plumes		
Location of wells on subject property	N/A	
and within 200' of the site		
Location, names and widths of	S-2.0 SURVEY	
existing and proposed streets and		
ROW's		

Location and dimensions of all accessways and loading and unloading facilities	L-2.0 + L-2.1
Location and dimension of all existing and proposed pedestrian ways	L-2.0 + L-2.1
Location, dimension and # of spaces of proposed parking areas, including handicapped spaces	N/A
Total floor area and ground coverage of each proposed building and structure	Modular classroom plans and L-2.0 + L-2.1
Proposed sign location and sign lighting	N/A
Proposed lighting location and details	Modular classroom plans
Covenants and deed restrictions proposed	N/A
Snow storage location	L-2.0 + L-2.1
Solid waste storage location and fencing/buffering	N/A
Location of all fire protection	N/A
Location of all temporary &	
permanent monuments	N/A
Street plans and profiles	N/A

## **ADDITIONAL REQUIREMENTS FOR MAJOR SITE PLAN PROJECTS:**

Submission Requirement	Provide Location in Application Packet (e.g., plan sheet number, binder section, narrative	If requesting a waiver, indicate below:
High intensity soils survey	N/A	
Hydro geologic evaluation	N/A	
Traffic Study	N/A	
Market Study	N/A	
Location of proposed recreation areas (parks, playgrounds, other public areas)	L-2.0 + L-2.1	
Location and type of outdoor furniture and features such as benches, fountains.	L-2.0 + L-2.1	

 $\mathbf{4}$ ) letter of authorization

# **MSAD #51**

The Schools of Cumberland and North Yarmouth, Maine

Jeffrey Porter, Superintendent of Schools
Scott Poulin, Director of Finance, Human Resources & Operations
Julie Olsen, Ed.D, Director of Instructional Support
Susie Robbins, Director of Academic Services
Dirk Van Curan, Director of Technology Services



June 24, 2021

Town of Cumberland 290 Tuttle Road Cumberland, ME 04021

RE: Letter of Authorization

To Whom It May Concern:

I hereby authorize Pat Carroll of Carroll Associates Landscape Architects and Doug Breer of Stephen Blatt Architects to act as agents on behalf of MSAD #51 in obtaining Cumberland Planning Board and Maine DEP approvals/permits for modular classroom additions.

Sincerely

Scott D. Poulin

Director of Finance, Operations and Human Resources

5) letter of financial capacity

# **MSAD #51**

The Schools of Cumberland and North Yarmouth, Maine

Jeffrey Porter, Superintendent of Schools
Scott Poulin, Director of Finance, Human Resources & Operations
Julie Olsen, Ed.D, Director of Instructional Support
Susie Robbins, Director of Academic Services
Dirk Van Curan, Director of Technology Services



June 24, 2021

Town of Cumberland 290 Tuttle Road Cumberland, ME 04021

RE: Owner's Technical and Financial Capacity

To Whom It May Concern:

Please find attached a list of all consultants working on the modular classroom additions.

The project and portables will be funded out of the current budget.

Sincerely,

Scott D. Poulin

Director of Finance, Operations and Human Resources

# **5.1)** project directory

Title: MSAD 51: Mabel I Wilson Elementary School + Greely Middle School

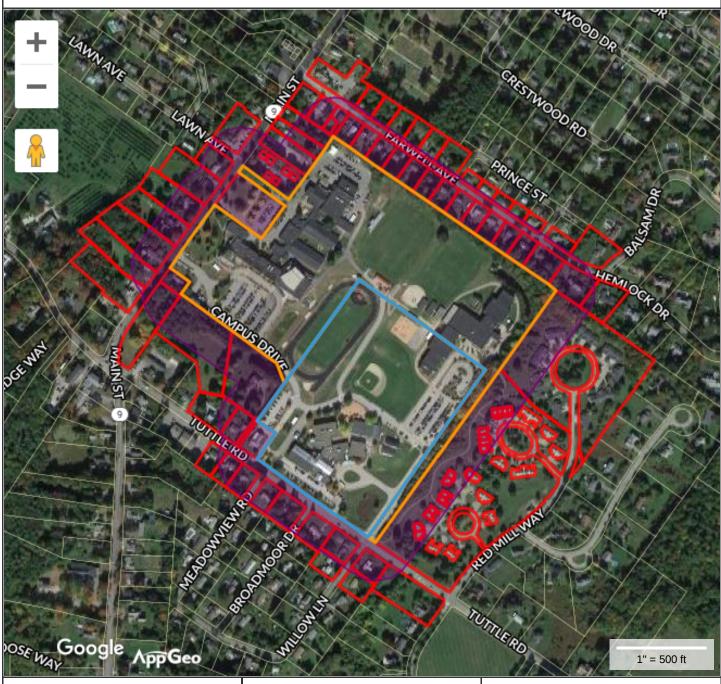
Modular Classroom Additions
Date: April 3, 2023
Page: 1

### PROJECT DIRECTORY

ARCHITECT:	Stephen Blatt Architects 5 South Street Portland, ME 04103 Tel: (207) 761-5911 Doug Breer, Architect
LANDSCAPE ARCHITECT:	Carroll Associates 217 Commercial St., Suite 204 Portland, ME 04101 Tel: (207) 772-1552 Pat Carroll, Landscape Architect
CIVIL ENGINEER:	Atlantic Resource Consultants 541 US Route One Freeport, ME 04092 Tel: (207) 449-6616 Andy Johnston, Civil Engineer
SURVEYOR:	Owen Haskell 390 U.S. Route One, Unit 10 Falmouth, ME 04105 Tel: (207) 774-0424

6) abutters map

### Abutters of MSAD 51 within 200 feet



### **Property Information**

Property ID 0U11 0009 0000 Location TUTTLE RD

Owner MAINE SCHOOL ADMIN DIST 51



## MAP FOR REFERENCE ONLY NOT A LEGAL DOCUMENT

Town of Cumberland, ME makes no claims and no warranties, expressed or implied, concerning the validity or accuracy of the GIS data presented on this map.

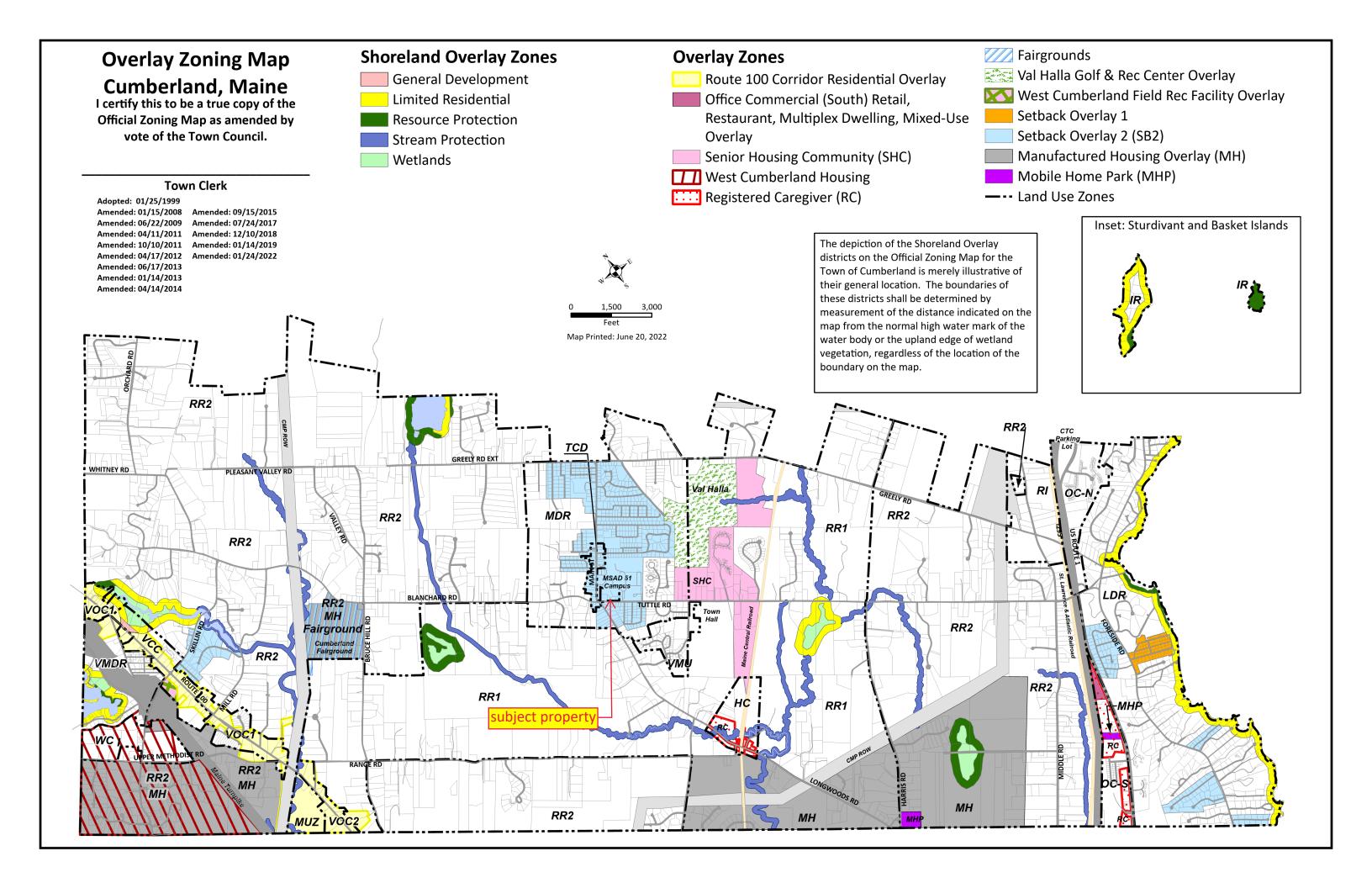
Geometry updated 6/10/2020 Data updated monthly (see property record card) Print map scale is approximate. Critical layout or measurement activities should not be done using this resource.

# 6.1) abutters addresses

Site Address	Owner Name	Co-Owner Name	Owner Address	Owner City	Owner State Owner Zip	Owner Zip
1 CUMBERLAND COMMONBLISS HENRY M 299 MAIN ST 293 MAIN ST TUTLE RD 369 TUTLE ROAD 361 TUTLE RD 361 TUTLE ROAD 362 TUTLE ROAD 363 TUTLE ROAD 364 TUTLE ROAD 365 TUTLE ROAD 365 TUTLE ROAD 366 TUTLE ROAD 367 TUTLE ROAD 368 TUTLE ROAD 368 TUTLE ROAD 368 TUTLE ROAD 369 TUTLE ROAD 360 TUTLE ROAD 360 TUTLE ROAD 360 TUTLE ROAD 361 TUTLE ROAD 362 TUTLE ROAD 363 TUTLE ROAD 364 TUTLE ROAD 365 TUTLE ROAD 366 TUTLE ROAD 367 TUTLE ROAD 368 TUTLE ROAD 369 TUTLE ROAD 360 TUTLE ROAD 36	BUSH, NATHAN J BUSH, NATHAN J TOWN OF CUMBERLAND WYATT, WILLIAM CAMPBELL JOSEPH A STEPHELS, TONY CAMPBELL JOSEPH A MAINE SCHOOL ADMIN DIST 51 HANSON SUSAN M LAMBERT DANIEL E KEATING KENNETH D & ELIZABETH A WATT ROBERT B REILLY, JR, JAMES T CORCIMIGLIA CARMEN T KNUUTI, KEITH P DRESSEL KAREN L CLOUTIER, TODD TREMBLE, ELAINE	BLISS MELISSA H WILLIAMS, FLORENCE R SMITH, COLEEN SWEETSER SCHOOL OFFICES HANSON TERRY C WATT CATHY R CORCIMIGLIA DEBORAH D KNUUTI, IRENE W	1 CUMBERLAND COMMON 55 THIRLMERE AVE 290 TUTTLE RD. PO BOX 51493 363 TUTTLE ROAD 363 TUTTLE ROAD 357 TUTTLE ROAD 357 TUTTLE ROAD 354 TUTTLE ROAD 358 TUTTLE ROAD 358 TUTTLE ROAD 360 TUTTLE ROAD 360 TUTTLE ROAD 361 FORESIDE RD 348 TUTTLE ROAD 348 TUTTLE ROAD 1209 HONOKALIUA ST 3 WILLOW LANE 15 CIDER HILL LN	CUMBERLAND SOUTH PORTLAND CUMBERLAND FIEDMONT CUMBERLAND		04021 04106 04021-9321 29673-2020 04021 04021 04021 04021 04021 04021 04021 04021
HAWTHORNE COOK I HAWTHORNE CT 6 LINDEN COURT 7 LINDEN COURT 8 LINDEN CT 9 LINDEN CT	TOWN OF CUMBERLAND JONES, KATHLEEN A HIGGINS, JAMES A PROFIT PROPERTIES, LLC MORSE, ANDREA R	HIGGINS, PATRICIA G	290 TUTTLE RD 46 FULLER RD 7 LINDEN CT 22 HEDGEROW DR 9 LINDEN COURT	CUMBERLAND CTR CUMBERLAND CUMBERLAND CUMBERLAND	W W W W W W W W W W W W W W W W W W W	04021-9321 04021 04021 04021
10 LINDEN CT 11 LINDEN COURT 12 LINDEN CT 13 LINDEN COURT 14 LINDEN COURT 27 MINTERREPROY COURT	10 LINDEN CT CASEY, SUSAN E 11 LINDEN COURT WHITTUM, LINDA 12 LINDEN CT RPF REALTY TRUST 13 LINDEN COURT BICKFORD CHARLES L 24 LINDEN COURT WHITTUM OBAR SUSAN L 23 WINTERBERDEN COLIDITEICHTON THOMAS M	WHITTUM, JEFFREY P BICKFORD JUDITH A OBAR MICHAEL S	10 LINDEN CT 11 LINDEN CT 12 LINDEN CT 13 LINDEN COURT 14 LINDEN COURT	CUMBERLAND CUMBERLAND CUMBERLAND CUMBERLAND CUMBERLAND		04021 04021 04021 04021 04021
27 WIN I ERBERRY COUR I LEIGH I ON I HOMA 28 WINTERBERRY CT WILMOT, SUSAN J 29 WINTERBERRY COURTWILLIAMS RICHAR 30 WINTERBERRY COURTWAGNER, LYNN S 32 WINTERBERRY COURT MORSE JUDITH 34 WINTERBERRY COURTWAGNER JUDITH 34 WINTERBERRY COURTWALTON, SHANNC SOE MAIN STEEFT	27 WIN I ERBERRY COURTLEIGH ON THOMAS M 28 WINTERBERRY CT WILMOT, SUSAN J 29 WINTERBERRY COURTWILLIAMS RICHARD H 30 WINTERBERRY COURTADAMS, ELIZA J 31 WINTERBERRY COURT WAGNER, LYNN S 32 WINTERBERRY COURT MALTON, SHANNON S. 34 WINTERBERRY COURT WALTON, SHANNON S. 35 WINTERBERRY COURT WALTON, SHANNON S.	LEVESQUE; DEWEESE, SCOTT; LINDSEY G; L WILLIAMS HEIDI		CUMBERLAND CUMBERLAND CUMBERLAND CUMBERLAND CUMBERLAND CUMBERLAND CUMBERLAND		04021 04021 04021 04021 04021 04021
296 MAIN STREET 300 MAIN STREET 302 MAIN STREET 306 MAIN STREET 310 MAIN STREET 327 MAIN STREET 327 MAIN STREET 4 FARWELL AVENUE 10 FARWELL AVENUE 11 FARWELL AVENUE 14 FARWELL AVENUE 16 FARWELL AVENUE 17 FARWELL AVENUE 18 FARWELL AVENUE 19 FARWELL AVENUE 19 FARWELL AVENUE 10 FARWELL AVENUE 11 FARWELL AVENUE 11 FARWELL AVENUE 12 FARWELL AVENUE 13 FARWELL AVENUE 14 FARWELL AVENUE 15 FARWELL AVENUE 16 FARWELL AVENUE 17 FARWELL AVENUE 18 FARWELL AVENUE 18 FARWELL AVENUE 18 FARWELL AVENUE 18 FARWELL AVENUE	CAN BROWN COMPANY CAN BROWN COMPANY CANDRY STEVEN G GRASS RICHARD E POWERS, PATRICIA M. HANKENS, REVIN W DUGAS, DEBORAH J 2022 TRUST CHASE'S FLOWER SHOP & GREENHSE WESSON ANNE ROELSE* WHITE JOHN D TALBOT, DONALD E MANGINI, GIOVANNINA M THOMPSON, CHARLES K CLARK, MICHAEL S. SY VINCENT A	HALL KAREN E GRASS SHARON E GRASS SHARON E POWERS, THOMAS E. HANKENS, MELISSA L DUGAS, DEBORAH J TRUSTEE C/O ATLANTIC REGIONAL FED CU WHITE CONSTANCE A TALBOT, CLAIRE M KEELER, CHRISTOPHER B CORNELIUS, JULIE R CLARK, ANGELA E.	PO MAIN STREET 300 MAIN STREET 302 MAIN STREET 310 MAIN STREET PO BOX 188 8 FARWELL AVENUE 10 FARWELL AVE PO BOX 21A PO BOX 181 14 FARWELL AVE 16 FARWELL AVE 16 FARWELL AVE 17 FARWELL AVE 18 FARWELL AVE 18 FARWELL AVE 19 FARWELL AVE 19 FARWELL AVE 10 FARWELL AVE 10 FARWELL AVE 11 FARWELL AVE 11 FARWELL AVE 12 FARWELL AVE 13 FARWELL AVE 14 FARWELL AVE 15 FARWELL AVE 16 FARWELL AVE 17 FARWELL AVE 18 FARWELL AVE 18 FARWELL AVE 19 FARWELL AVE 10 FARWELL AVE 10 FARWELL AVE 11 FARWELL AVENUE	SOUTH PARIS CUMBERLAND		04281 04021 04021 04021 04021 04021 04021 04021

04092 04021 04021 04021 04105 04021	04021 04021 04021 04021 04021 04021	04021 04105 04105 04103-2686 04021 04021 04106 04021	04021 04021 04021 04021 04021 04021 04021
WESTBROOK CUMBERLAND CUMBERLAND CUMBERLAND CUMBERLAND FALMOUTH CUMBERLAND CUMBERLAND	CUMBERLAND	CUMBERLAND CIR FALMOUTH FALMOUTH PORTLAND CUMBERLAND CUMBERLAND SOUTH PORTLAND CUMBERLAND	CUMBERLAND
9 THOMAS DR 24 FARWELL AVENUE 26 FARWELL AVE 28 FARWELL AVE 30 FARWELL AVE 4 PRESERVATION DR 29 FARWELL AVE 27 FARWELL AVE	25 FARWELL AVENUE 23 FARWELL AVENUE 21 FARWELL AVENUE 49 NEWELL RIDGE RD 17 FARWELL AVE 15 FARWELL AVENUE 11 FARWELL AVENUE PO BOX 492 7 FARWELI AVENUE 7 FARWELL AVENUE	7 FAKWELL AVENUE 161 WOODLANDS DR PO BOX 66798 777 STEVENS AVE., 325 MAIN STREET 321 MAIN STREET C/O GINN REAL ESTATE 2 VILLAGE WAY	4 VILLAGE WAY 5 VILLAGE WAY 7 VILLAGE WAY 8 VILLAGE WAY 10 VILLAGE WAY 311 MAIN STREET 314 MAIN STREET 20 HEMLOCK DR 22 HEMLOCK DR 17 BALSAM DRIVE
LANESE MARY ANN , WILLIAM GROVES MCDONOUGH MARY L	TAYLOR KATHLEEN B DEWS ADAM C PIKE DEANNA G THOMPSON, CAROLINE E NOLIN MAURA C PANDOLFO, MARIE	MULLIN MICHAEL J KIELY, NEIL J GATTINE MELISSA A CURRIE CAROLYN R	AKNOLDO, CHRISTINE A. MALLAR, DEBORAH G RANGER CAROL B DEMONT, PRISCILLA T BANTON VICKI
			AKN MAL RAN BAN
B & H ENTERPRISES, LLC LANESE JOHN BOHRMANN, MARGARET A MCKENNEY, REBECCA MCDONOUGH MICHAEL G A&M WRIGHT, PROPERTIES LLC ZADAKIS, STACEY L MORRISON KARA K	TAYLOR ALBERT H DEWS AMBER J MALLOY PATRICK J KAPLAN, JOSHUA MORGAN, MICHAEL P HAYES WENDY NOLIN MARK R JACOBS BARBARA J PANDOLFO, FRANK MILLIN KATHERINE G	GE LLC	ARNOLDO, THOMAS MALLAR, JAMES L RANGER JOHN S LEGERE, LORI L BUFFINTON, LEE MAINE SCHOOL ADMIN DIST 51 O'DWYER BABETTE* POISSON LISA D DEMONT, ROBERT D DEMONT, ROBERT D BANTON CRAIG BA

7) overlay zoning map



8) site plan standards responses



# MSAD 51 Modular Classroom Additions - Site Plan Review Submittal Response to SECTION 10 - APPROVAL STANDARDS & CRITERIA

#### 10.1 Utilization of the site

Response: The proposed portable classroom buildings at MIW + GMS will be located on existing developed areas with direct access to building support services. These are the most practicable locations for the classroom buildings, providing a secure area for students and minimizing any visual impact of the buildings from the public right-of-way.

The existing Tuttle Town playground will be relocated to the outfield of the softball field at MIW and enlarged, along with the addition of a shade structure. Softball has move elsewhere since the original modulars were located here in 2020. The additional hard play area and Pre-K play area are also being located on areas previously developed adjacent to support services and building access.

The proposed concessions stand will be located at the west end of the football field adjacent to other associated buildings with similar needs with direct access to the access way through the campus.

The proposed project will not have any additional effect on the environment or existing conditions.

#### 10.2. Traffic, Circulation and Parking

10.2.1 Traffic Access and Parking

Response: There are no new drives, streets, parking spaces, or new points of access proposed for this project. Access and drives will remain the same.

10.2.2 Access way Location and Spacing

Response: No new access ways are proposed.

#### 10.2.3 Internal Vehicular Circulation

Response: The building locations provide a minimum 20-foot clearance between the portables and existing school buildings for any emergency access that might be required.

#### 10.2.4 Parking Layout and Design

Response: No existing parking will be affected and no new off-street parking is proposed.

#### 10.2.5 Building and Parking Placement

Response: See comments for 10.2.3 and 10.2.4.

#### 10.2.6 Pedestrian Circulation

Response: The modular classroom buildings are configured with a central, double loaded corridor with bathrooms and utilities in the middle. The proposed site layout for the modular classroom buildings anticipates accessible routes to each building through a wooden accessible ramp on one end/entry and egress steps at both ends/entries. All ramps/stairs will connect to existing paved walkways and hard surface areas.

Title: MSAD 51: Mabel I Wilson Elementary School + Greely Middle School

Modular Classroom Additions

Date: April 3, 2023

Page: 2

#### 10.3 Stormwater Management and Erosion Control

#### 10.3.1 Stormwater Management

Response: All existing drainage patterns will be maintained wherever possible. The temporary modular classroom buildings are installed on concrete piers/pads over existing grade, which allows existing drainage to move under them with no disturbance of existing patterns. As such, construction disturbance is minimal. We propose to install four-foot-wide drip edges along each long side of the new and re-located portables. These will be designed to Chapter 500 and provide underdrains that connect to the existing storm system. If any other impervious are added, we can grade these areas to drain to small bio-cells to provide treatment. See Exhibit 9 Stormwater.

#### 10.3.2 Erosion Control

Response: The buildings will be placed over existing developed surfaces; minimal disturbance will be required except for piers/pads and underground utility connections. Both silt fence and silt sack catch basin inlet devices are proposed and detailed.

#### 10.4 Water, Sewer, and Fire Protection

#### 10.4.1 Water Supply Provisions

Response: Water service connections are proposed to each of the modular classroom buildings for both bathrooms and sprinkler systems as well as the concessions stand.

#### 10.4.2 Sewage Disposal Provisions

Response: Sewer service connections are proposed to each of the modular classroom buildings at MIW + GMS. A new sewer service will be required for the concessions stand.

#### 10.4.3 Utilities

Response: Underground power and communication service will connect all modular classroom buildings with the existing school buildings. Power will be connected to the concessions stand.

#### 10.4.4 Fire Protection

Response: All portable classrooms will be fully accessible by emergency vehicles and personnel. A minimum 20- foot clear zone has been maintained between the buildings and the existing school. Sprinkler service connections are proposed to each of the modular classroom buildings.

#### 10.5 Water protection

#### 10.5.1 Groundwater Protection

Response: The modular classrooms are served by public water and sewer and will not impact any groundwater sources on adjacent properties.

#### 10.5.2 Water Quality

Response: The modular classrooms are served by public sewer so no water quality issues. No hazardous materials are proposed to be used at this site.

Title: MSAD 51: Mabel I Wilson Elementary School + Greely Middle School

Modular Classroom Additions

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#### 10.5.3 Aquifer Protection

Response: Based on our review of the Town Aquifer Map, we believe the site is not located within the Town Aquifer Protection Area.

#### 10.6 Floodplain Management

Response: The project site is not located within a special flood hazard area as identified in the latest FEMA flood maps.

#### 10.7 Historic and Archaeological Resources

Response: The project was previously reviewed by the Maine Historic Preservation Commission as part of the DEP Site Location of Development Permit and no historic or archeological resources are known to exist.

#### 10.8 Exterior Lighting

Response: School uses are proposed to occur during daytime hours. The existing school buildings has several wall-mounted lights that provide security lighting for the hard surface play area and internal walkway, and it is anticipated these lights will remain and provide adequate lighting for the core area. The modular classroom buildings have light at their ends for egress safety and at regular intervals along their lengths.

#### 10.9 Buffering and Landscaping

10.9.1 Buffering of Adjacent Uses

Response: The proposed project site is well located withing the interior of the Campus, which is all compatible with the proposed use. No buffering is required for this use.

#### 10.9.2 Landscaping

Response: No new plant material is proposed for this project.

#### 10.10 Noise

Response: The classroom buildings will be located well within the project boundaries and will not generate any new noise that might be considered objectionable to neighboring properties.

#### 10.11 Storage of Materials

Response: There are no additional storage or waste removal systems (dumpsters) proposed for this project.

#### 10.12 Capacity of the Applicant

Response: A financial capacity letter, and list of Design Team members has been provided as part of the application submittal.

#### 10.13 Design and Performance Standards

10.13.1 Route 100 Design Standards

Response: The project lies in the Town MDR zoning district and is not subject to the Route 100 Design Standards.

#### 10.13.2 Route 1 Design Guidelines

Response: The project lies in the Town MDR zoning district and is not subject to the Route 1 Design Standards.

#### 10.13.3 Town Center District Performance Standards

Title: MSAD 51: Mabel I Wilson Elementary School + Greely Middle School

Modular Classroom Additions

Date: April 3, 2023

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Response: The project lies in the Town MDR zoning district and is not subject to the Town Center District Performance Standards.

10.13.4 Village Mixed Use Performance Standards

Response: The project lies in the Town MDR zoning district and is not subject to the Village Mixed Use Performance Standards.

9) stormwater management narrative

# GREELY CAMPUS TEMPORARY CLASSROOM ADDITIONS STORMWATER MANAGEMENT NARRATIVE

Introduction - The project consists of the addition of two new portable classroom buildings, a shade structure, a small concession stand, the re-location of a third portable classroom building and the removal five existing portable classroom buildings on the existing school campus. Minor reconfiguration of other existing ancillary site improvements will be required to accommodate the new building locations. All proposed work is within the existing developed area of the site and there will be no expansion of the previously established limits of disturbance.

**Existing Conditions** – The new modular classroom buildings will be located at existing building locations, on existing playground, walkways and adjacent lawn areas at the site. The topography of the proposed building locations is generally flat, with gentle slopes (1-2%) away from the existing buildings. Soils in the area of the proposed improvements are identified by the Natural Resource Conservation Service (NRCS) Web Soil Survey as Nicholville series sandy loams and Windsor series loamy sands. Nicholville series soils are described as moderately well drained glaciomarine deposits. Depth to restrictive layer is generally greater than 80 inches, with seasonal high water table elevations between 18 and 30 inches below the surface. The saturated hydraulic conductivity (Ksat) is moderately low to moderately high with values of between 0.14in/hr and 1.42 in/hr typical. Windsor series soils are described as excessively drained outwash deposits. Depth to restrictive layer is generally greater than 80 inches, with seasonal high water table elevations greater than 80 inches below the surface. The saturated hydraulic conductivity (Ksat) is moderately high to very high with values of between 1.42in/hr and 99.90 in/hr typical.

The Greely campus is in the watershed of the East Branch Piscataqua River, a tributary to the Presumpscot River. The site is served by a stormwater management system that includes ponds to the south of the Mabel Wilson school and to the northwest of the Greely Middle School

**Proposed Improvements** – Adjacent to the Mabel I Wilson School the existing 10 classroom portable will be re-located to the east, over the existing playground, and a new 12 classroom portable will be installed parallel with the access drive and parking area on the northeast side of the main school building. The two existing 2 classroom portables located on the east side of the school will be removed and the existing playground will be re-located to this area. A shade structure is proposed adjacent to the relocated playground similar to the existing shade structure at Greely Middle School.

Adjacent to the Greely Middle School the three 2 classroom portables will be removed and replaced by a single 10 classroom portable in approximately the same location. A small concessions building will be located between the track and the football field.



The Stormwater Management Plan for the new classroom additions aims to supplement the existing stormwater system by capturing and treating runoff from the roof areas of the new buildings in filtering drip strips, before allowing it to drain to the existing site infrastructure. This will effectively disconnect runoff from the new impervious area associated with the new buildings, providing localized treatment and detention, while maintaining existing site drainage patterns.

Filtering Drip Strip Sizing - The treatment storage area of the filtering drip strips have been sized to accept and treat the runoff from a one-inch storm event over the contributing roof area. Each half of the roof is 34 feet wide. The runoff volume per linear foot of roof is as follows:

34ft x 1/12 = 2.83 cu.ft per linear foot

Assuming a void ratio of 40% in open graded stone, a four-foot wide strip, two feet deep provides the following:

 $4 \times 2 \times 0.4$  = 3.2 cu.ft per linear foot

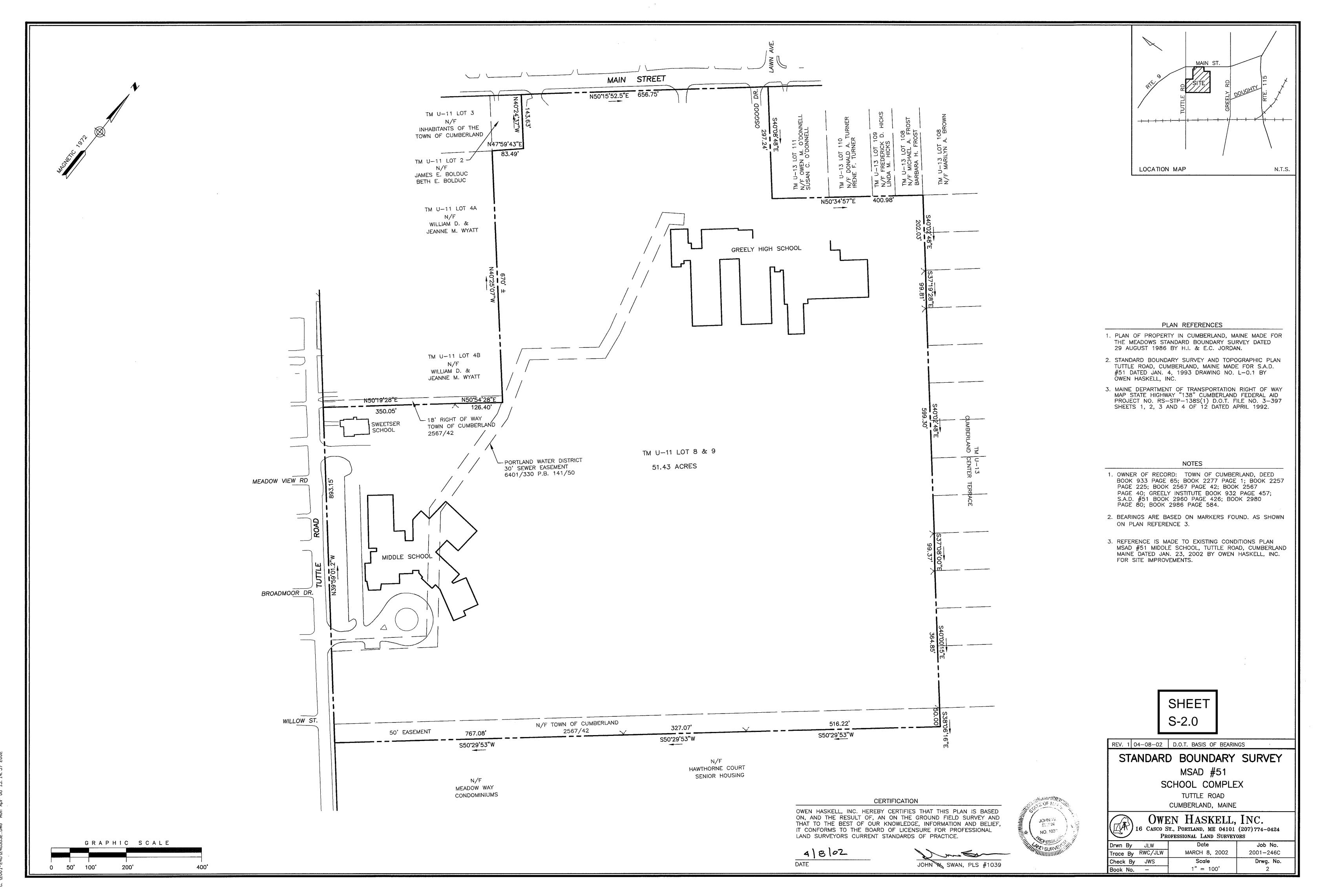
Therefore, a drip strip with a storage area four feet wide and two feet deep provides sufficient treatment storage to treat the first one inch of roof runoff (the 90 percentile annual storm). The storage layer of the drip edge filter will be underlain by a one foot deep filtering sand layer. During normal storm events the filtering drip strips will drain by infiltration to the underlying soils at an estimated rate of between 0.5in/hr and 1in/hr. The fine sandy loam soils will effectively filter and treat the roof runoff and allow beneficial groundwater recharge. Excess rainfall entering the drip strips during large storms will be evenly distributed to surrounding soils, or drain via sheet flow across the surface to existing drain inlets.

The size and scope of this project, and the limited changes to the existing developed and impervious areas does not warrant runoff and routing calculations as any impact on overall runoff rates from the site will be negligible. It is our opinion that the additional storage provided by the drip strips, and the infiltration capacity of the underlying soils will adequately compensate for the minor increase in runoff due to the additional impervious area.

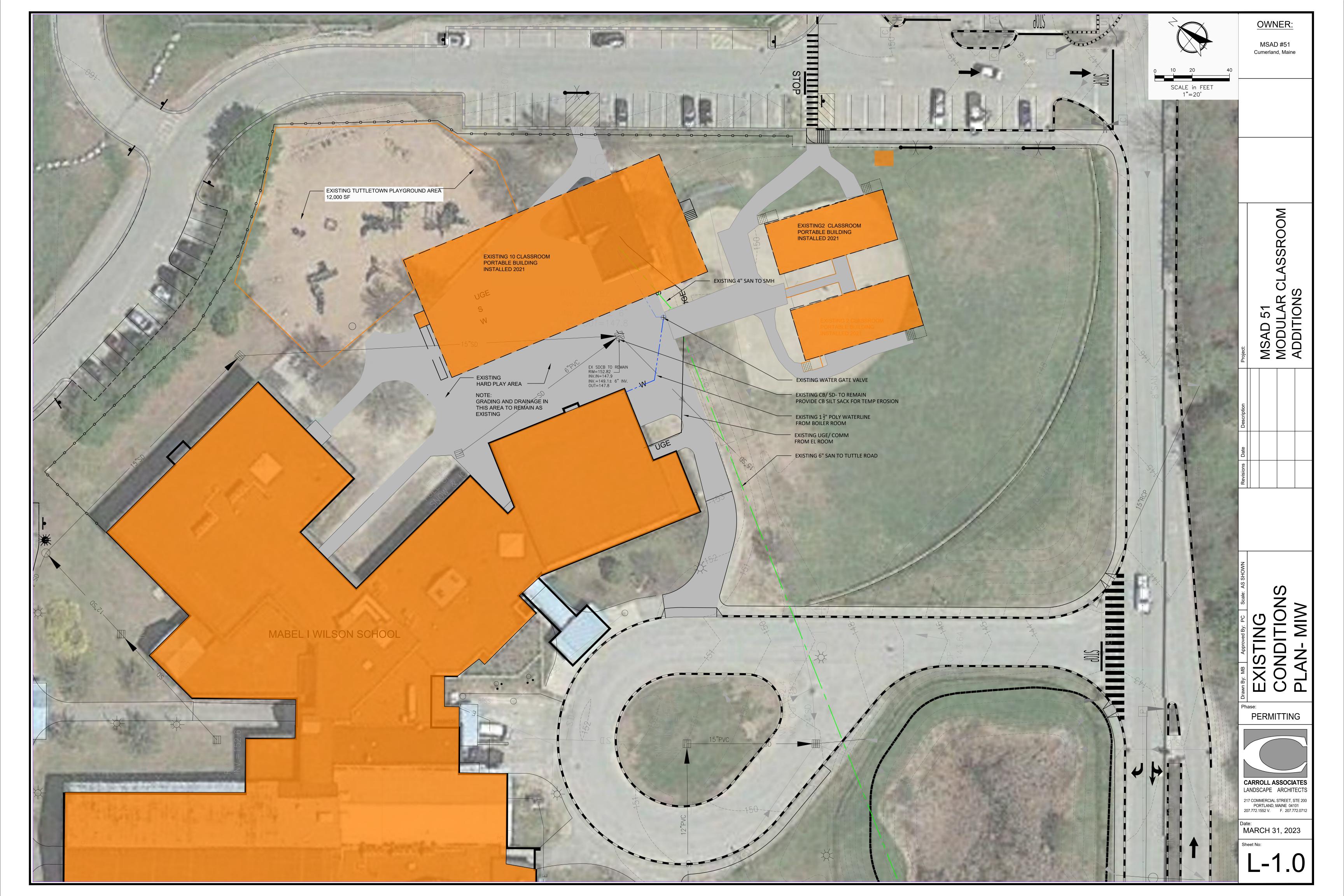
The drip strips will need to be maintained on a regular basis to ensure their continued function. Basic maintenance will include quarterly inspection and removal of debris from the stone surface. If surface ponding on the strip is evident after rainfall events, the stone surface layer will need to be removed and replaced.

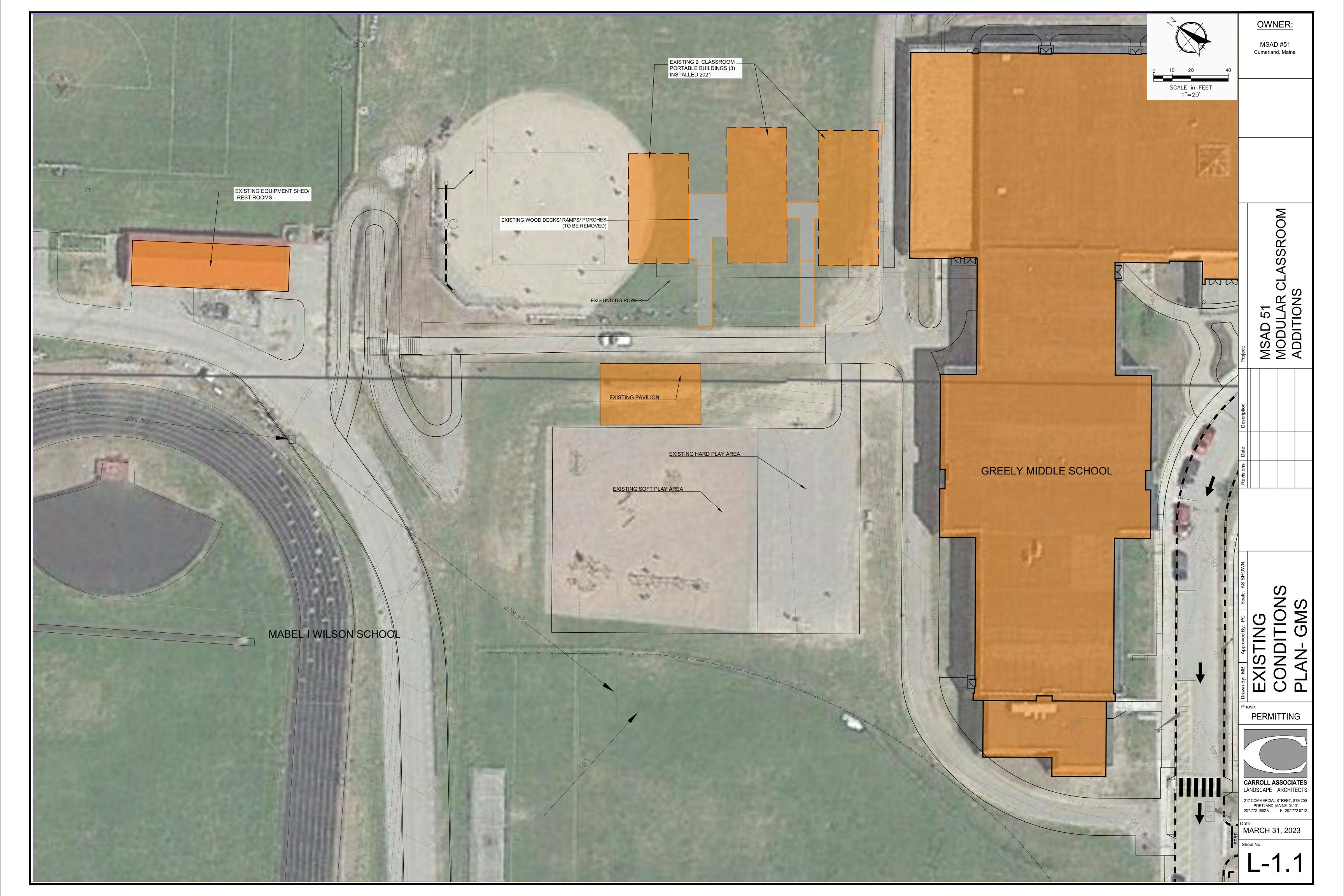


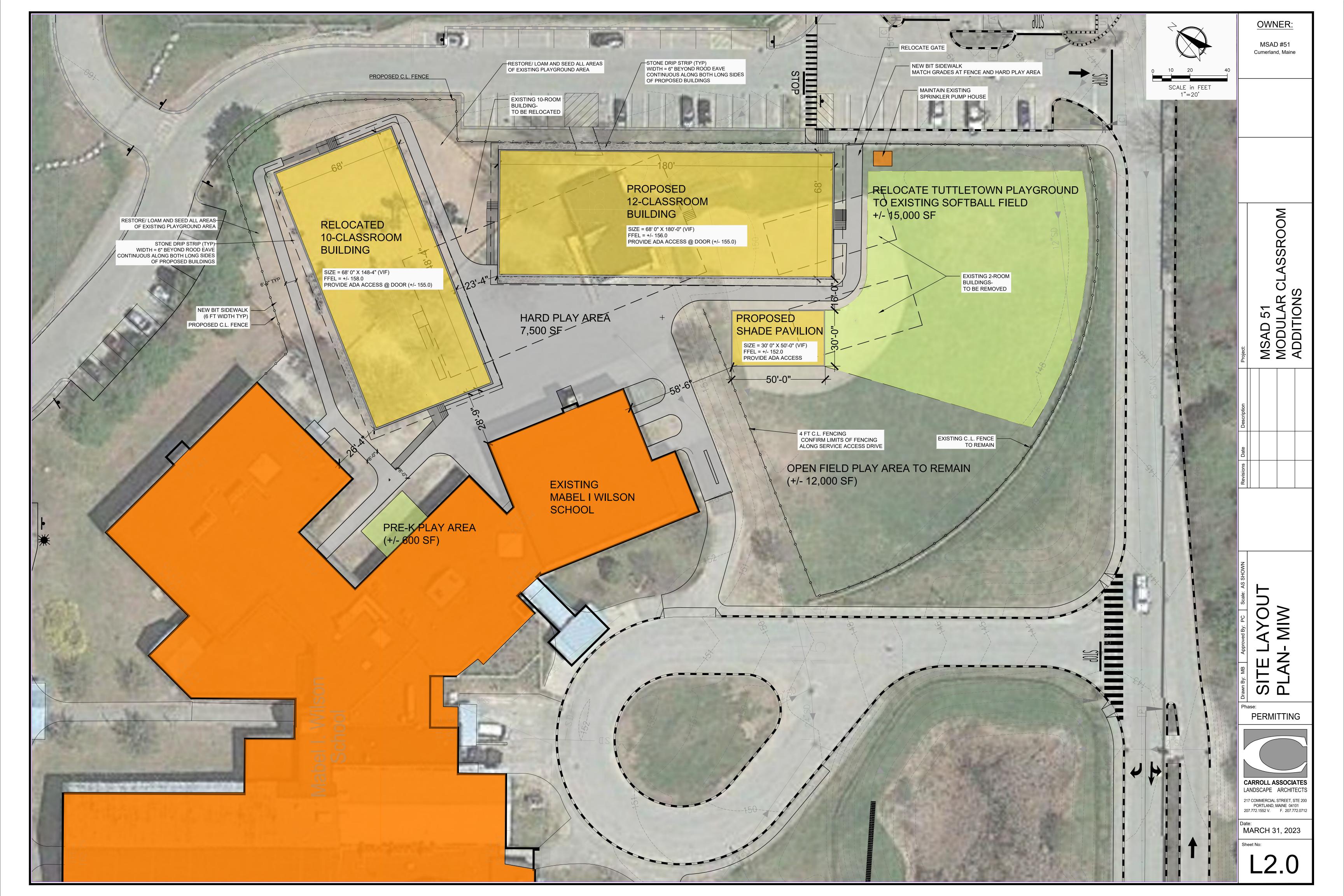


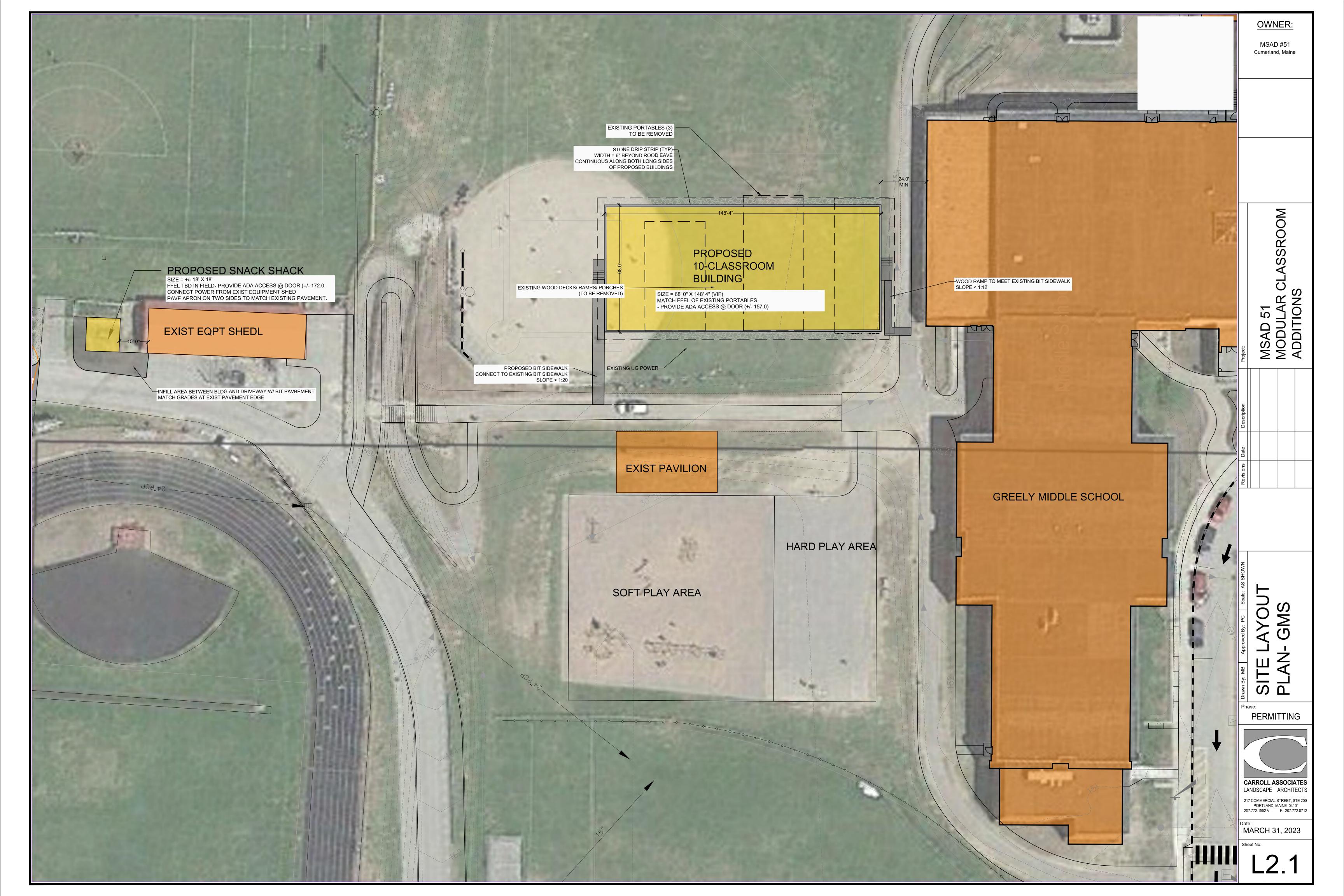


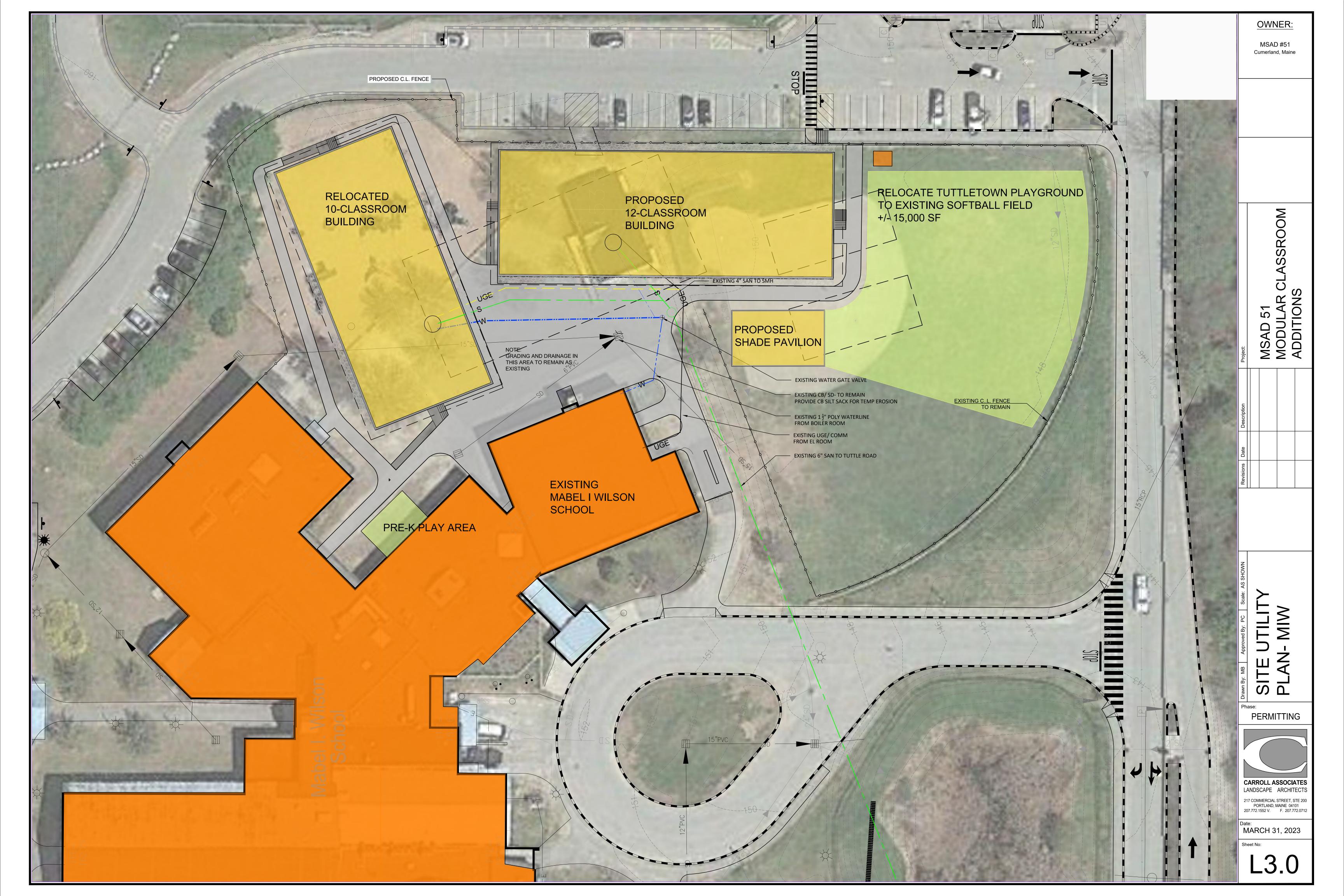
CONC. TE: 14: 94 90 200 DWG Nor Ann OB 19: 14: 94

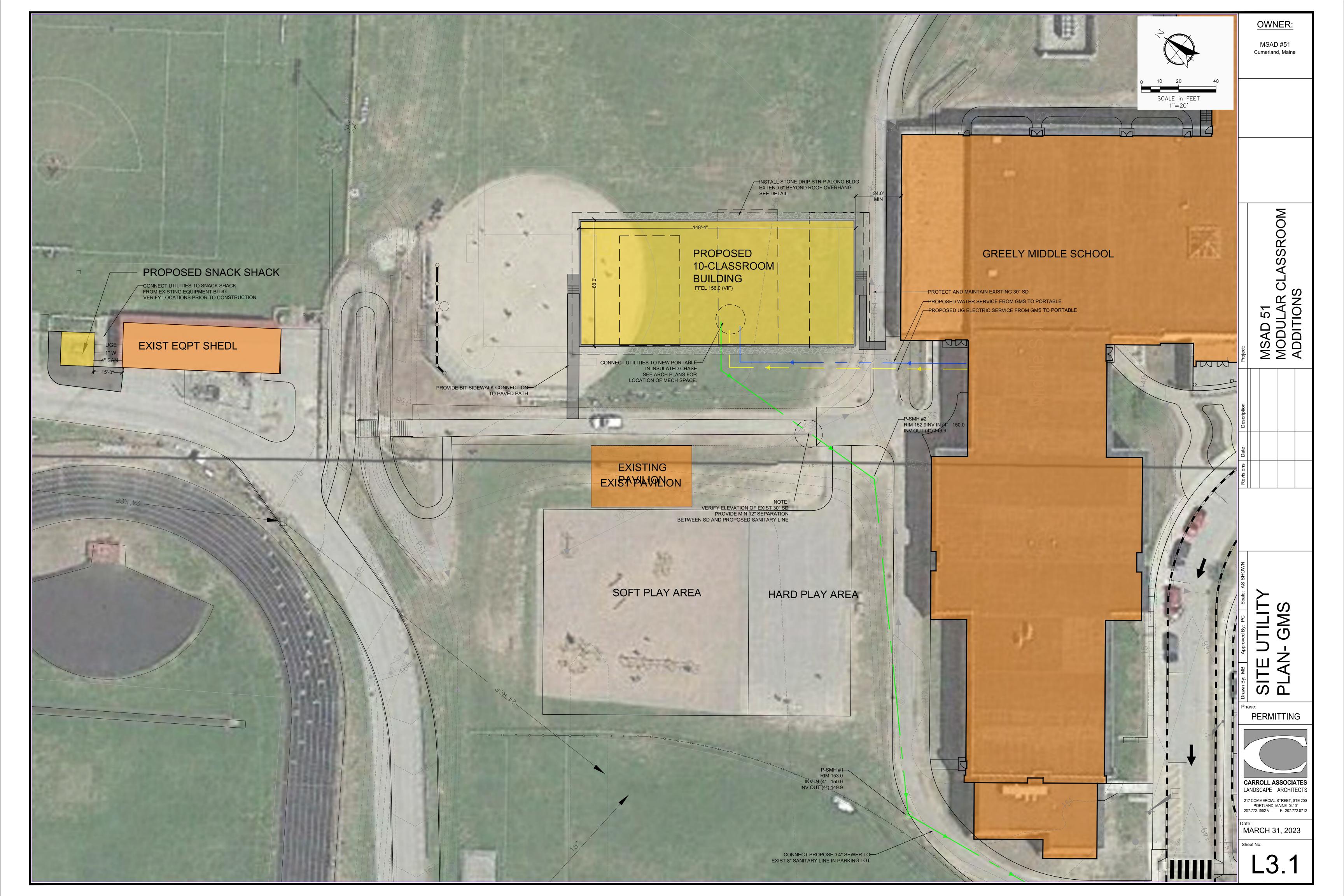


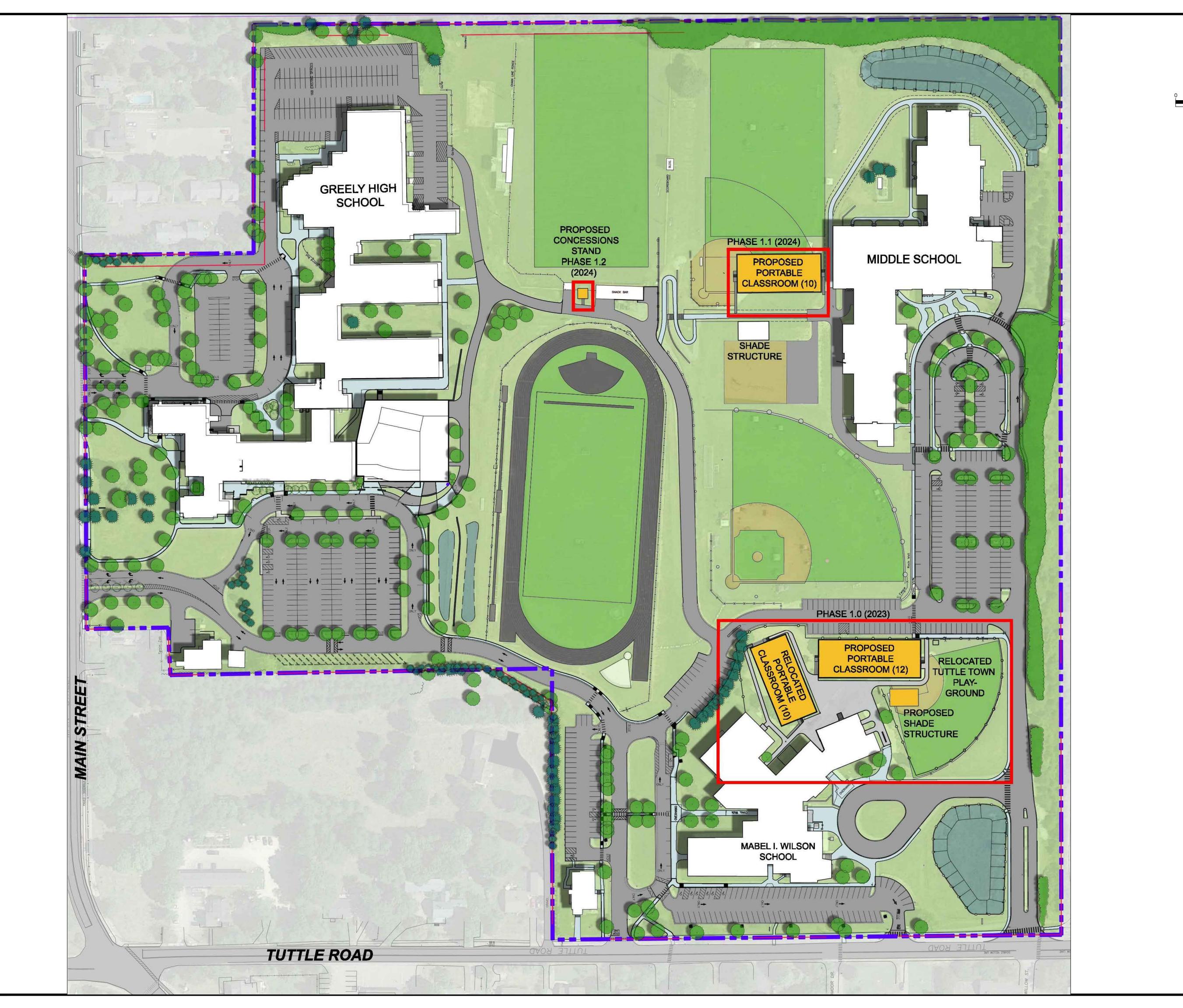












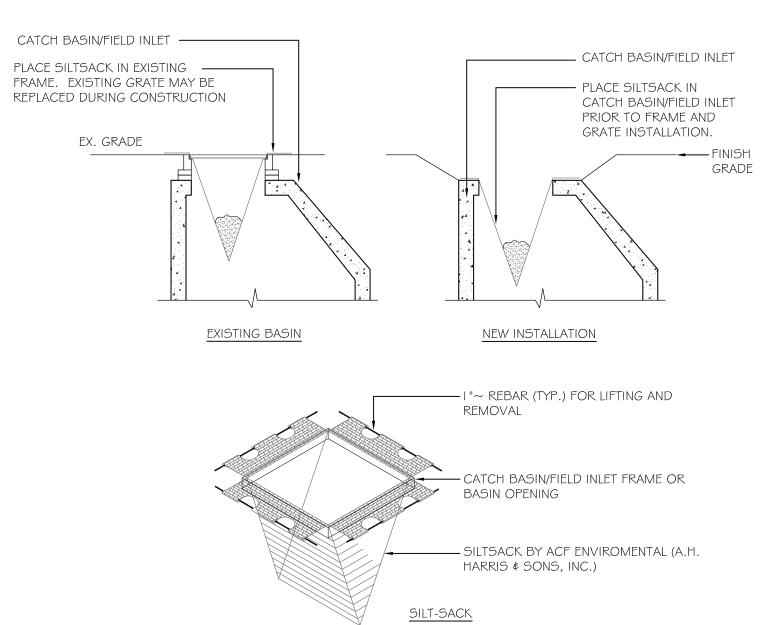
SCALE in FEET 1"=80'

OWNER: MSAD #51 Cumerland, Maine

PERMITTING

CARROLL ASSOCIATES LANDSCAPE ARCHITECTS 217 COMMERCIAL STREET, STE 200 PORTLAND, MAINE 04101 207.772.1552 V. F. 207.772.0712

MARCH 31, 2023

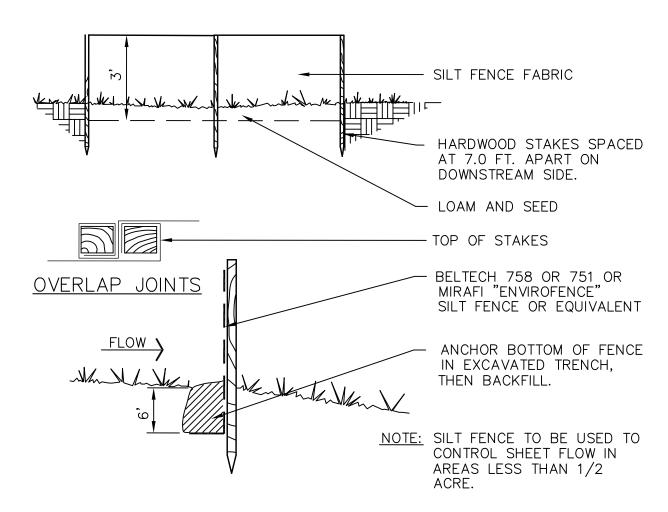


### NOTES

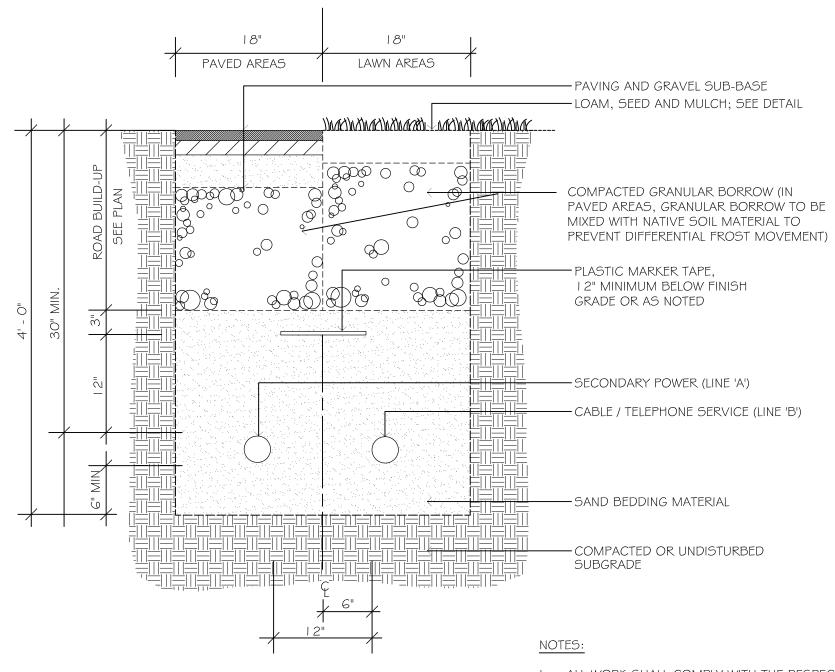
- I. INSTALLATION PER MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.
- 2. EMPTY AND REMOVE SEDIMENT FROM SILTSACK WHEN RESTRAINT CORD IS NO LONGER VISIBLE. CLEAN, RINSE AND REPLACE AS NEEDED.
- 3. CONTRACTOR SHALL INSPECT CATCH BASIN PROTECTION AFTER EACH MAJOR
- STORM EVENT AND CLEAN SILT AS NEEDED.

  4. CIRCULAR UNITS SHALL BE USED FOR CIRCULAR CATCH BASIN GRATES.
- CATCH BASIN PROTECTION

SCALE: NTS



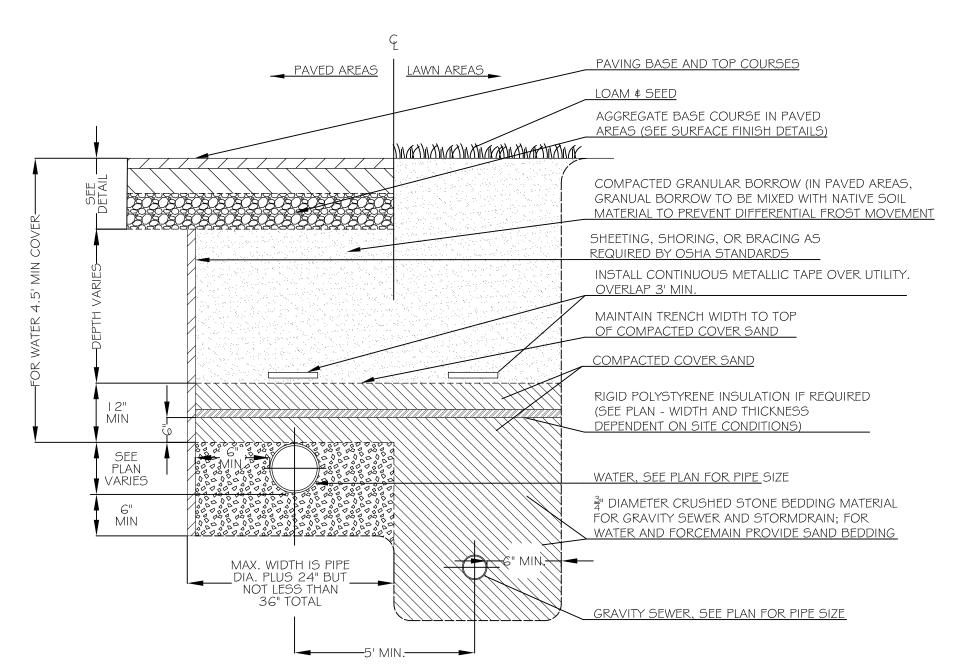
SILT FENCE SCALE: NTS



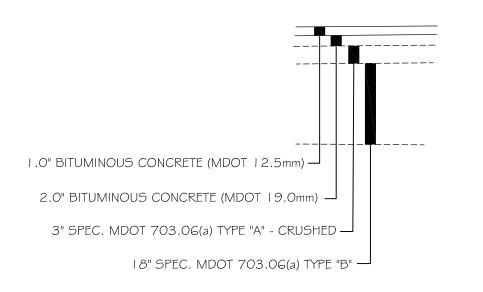
SERVICE	CONDUIT SIZE*	CONDUIT TYPE	UTILITY
'A'	4"	SCHEDULE 40 P.V.C. ELECTRICAL GRADE	SECONDARY POWER
'B'	4"	SCHEDULE 40 P.V.C. ELECTRICAL GRADE	TELEPHONE / CATV

ALL WORK SHALL COMPLY WITH THE RESPECTIVE UTILITY COMPANY STANDARDS.
 SEE UTILITIES PLANS FOR CONDUIT LOCATIONS.
 CONTRACTOR TO PROVIDE 1/4" POLYPROPYLENE PULL ROPES IN ALL CONDUITS.
 CONTRACTOR SHALL VERIFY CONDUIT SIZE WITH APPLICABLE UTILITY COMPANIES.

3 ELECTRICAL + TELCOMS TRENCH SCALE: NTS



PIPE TRENCH
SCALE: NTS



PAVEMENT TRENCH REPAIR
SCALE: NTS

isions Date Description Project:

| MSAD 51 | MODULAR CLASSROOM | ADDITIONS | ADDITIONS | ADDITIONS | ADDITIONS | ADDITIONS |

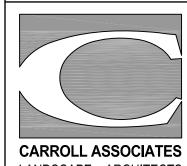
OWNER:

MSAD #51

Cumerland, Maine

Drawn By: MB Approved By: PC Scale: AS SHOWN
SITE DETAILS

PERMITTING



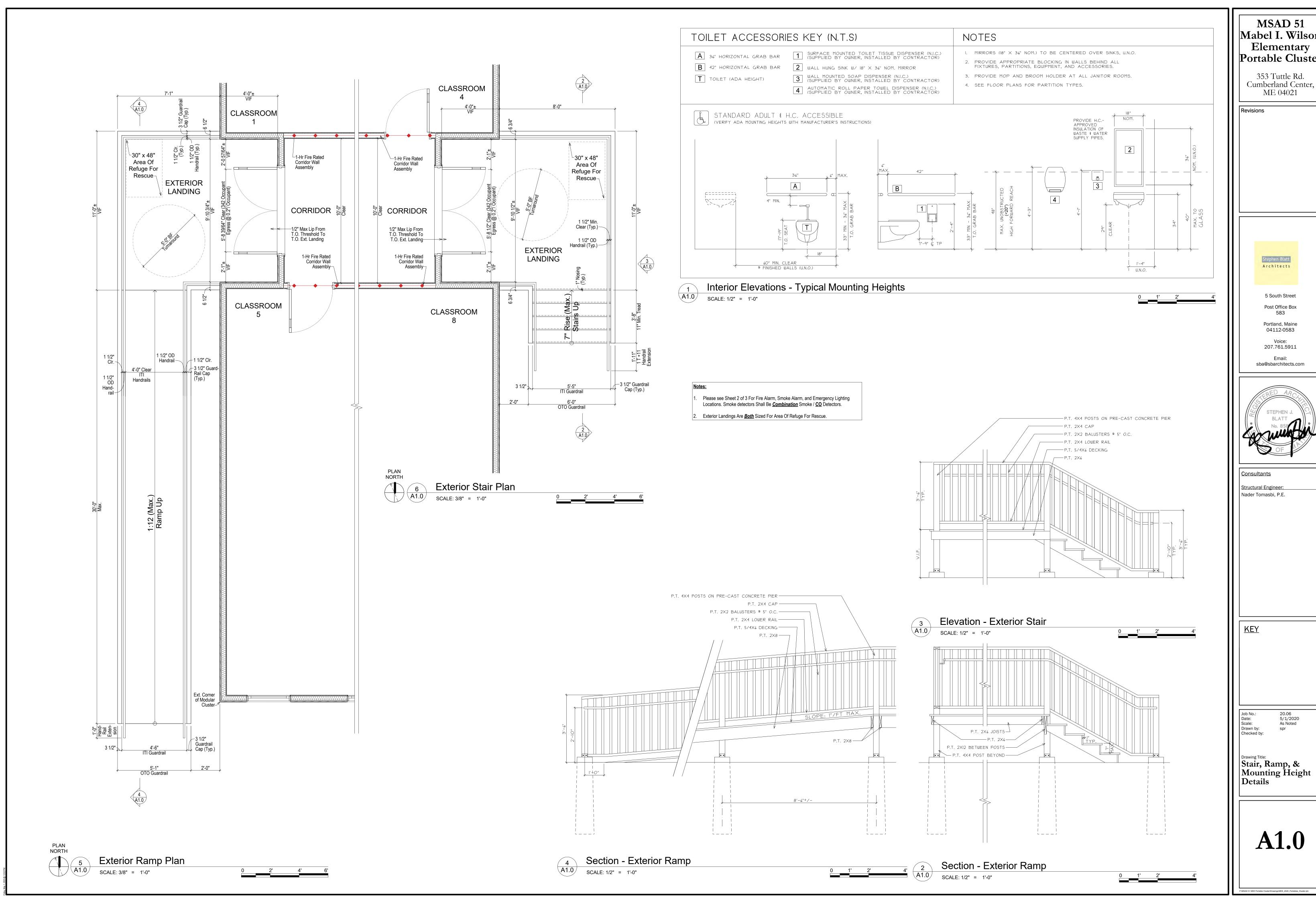
CARROLL ASSOCIATES
LANDSCAPE ARCHITECTS

217 COMMERCIAL STREET, STE 200
PORTLAND, MAINE 04101
207.772.1552 V. F. 207.772.0712

Date: MARCH 28, 2023

Sheet No:

1 -5



MSAD 51 Mabel I. Wilson Elementary Portable Cluster

353 Tuttle Rd. Cumberland Center, ME 04021

5 South Street Post Office Box

04112-0583 207.761.5911

sba@sbarchitects.com



20.06 5/1/2020 As Noted

GENERAL NOTES: ACCESS TO BUILDING FOR PERSONS IN WHEELCHAIRS IS DESIGNED BY AND FIELD BUILT BY OTHERS AND SUBJECT TO LOCAL JURISDICTION APPROVAL. THE PRIMARY ENTRANCE MUST BE ACCESSIBLE. MUST BE ACCESSIBLE.

2. ALL DOORS SHALL BE OPENABLE FROM THE EGRESS SIDE WITHOUT THE USE OF A KEY, TOOL, SPECIAL KNOWLEDGE OR EFFORT. MANUALLY OPERATED FLUSH BOLTS OR SURFACE BOLTS SHALL NOT BE USED.

3. ALL GLAZING WITHIN A 24 INCH ARC OF DOORS, WHOSE BOTTOM EDGE IS LESS THAN 60 INCHES ABOVE THE FLOOR, AND ALL GLAZING IN DOORS SHALL BE SAFETY, TEMPERED OR ACRYLIC PLASTIC SHEET. TEMPERED OR ACRYLIC PLASTIC SHEET.

4. ALL STEEL STRAPS REFERENCED ON FLOOR PLAN SHALL BE 1.5 INCH x 26 GA. WITH 7 — 15 GA. x 7/16 INCH CROWN x 1 INCH STAPLES EACH END OF STRAP OR EQUIVALENT FROM RIDGE BEAM TO COLUMN, AND COLUMN TO FLOOR.

5. PORTABLE FIRE EXTINGUISHER PER N.F.P.A. — 10 INSTALLED BY OTHERS ON SITE, AND SUBJECT TO LOCAL JURISDICTION.

6. PROVISIONS FOR EXIT DISCHARGE LIGHTING ARE THE RESPONSIBILITY OF THE BUILDING OWNER AND SUBJECT TO LOCAL JURISDICTION APPROVAL WHEN NOT SHOWN ON THE FLOOR PLAN (INCLUDING EMERGENCY LIGHTING, WHEN REQUIRED).

7. WHEN LOW SIDES OF ROOF PROVIDE LESS THAN 6° OF OVERHANG, GUTTERS AND DOWN SPOUTS SHALL BE SITE INSTALLED, DESIGNED BY OTHERS, SUBJECT TO LOCAL JURISDICTION APPROVAL.

8. IN WIND—BORNE DERRIS REGIONS EXTERIOR GLAZING SHALL BE IMPACT RESISTANT LOCAL JURISDICTION APPROVAL.

8. IN WIND—BORNE DEBRIS REGIONS, EXTERIOR GLAZING SHALL BE IMPACT RESISTANT OR PROTECTED WITH AN IMPACT RESISTANT COVERING MEETING THE REQUIRMENTS OF AN APPROVED IMPACT RESISTANT STANDARD, OR ASTM E1996. WIND—BORNE DEBRIS REGIONS ARE DESIGNATED IN SECTION 1609 OF THE IBC.

9. WINDOWS AND DOORS MUST BE CERTIFIED FOR COMPLIANCE WITH THE WIND DESIGN PRESSURE FOR COMPONENTS AND CLADDING.

10. A FIRE ALARM MUST BE SITE INSTALLED BY OTHERS, SUBJECT TO APPROVAL BY AUTHORITY HAVING JURISDICTION. NOTE:
THE INCORPORATION OF THESE TWO MODULES INTO THE EXISTING BUILDING IS SUBJECT TO REVIEW AND APPROVAL BY AUTHURITY HAVING JURISDICTION.

ELEVATION NOTES: TYPICAL

SEE-CROSS SECTION FOR

AND HANDRAILS ARE SITE

FOUNDATION ENCLOSURE

METHOD OF ROOF VENTILATION ACCESSIBLE RAMP(S), STAIR(S),

INSTALLED, DESIGNED BY OTHERS,

(WHEN PROVIDED) MUST HAVE 1 SQUARE FOOT NET VENT AREA PER 1/150TH OF THE FLOOR AREA,

AND AN 18" X 24" MINIMUM CRAWL

SPACE ACCESS, SITE INSTALLED BY

ELEVATIONS SHOWN ON THIS PAGE REPRESENT BASIC COMPONENTS & ARE

NOT INTENEDED TO BE ALL INCLUSIVE NOR DO THESE ELEVATIONS DETAIL EVERY CODE REQUIRED ASPECT OF THIS BLDG..

SITE BUILT STOOPS, STEPS, DECKS,

PORCHES, HANDRAILS AND/OR SIMILAR

ITEMS MUST BE PROVIDED BY OTHERS ON SITE FOR COMPLIANCE WITH APPLICABLE

CODES PER LOCAL AUTHORITY HAVING JURISDICTION, WHETHER DETAILED IN THIS SET OR NOT, MUST BE MET

CODES. COMPLIANCE WITH ALL APPLICABLE

OTHERS SUBJECT TO LOCAL JURISDICTION.

AND SUBJECT TO LOCAL JURISDICTION.

PLUMBING NOTES: . WHEN RESTROOM FACILITIES AND/OR PLUMBING FIXTURES REQUIRED PER IPC/NCPC SECTION 403 ARE NOT PROVIDED WITHIN THE BUILDING, A HANDICAPPED ACCESSIBLE FACILITY MUST BE PROVIDED ON SITE WITHIN THE ALLOWABLE DISTANCE PER CODE. THE REQUIRED FACILITY SHALL BE THE RESPONSIBILITY OF THE BUILDING OWNER AND IS SUBJECT TO THE REVIEW AND APPROVAL OF THE LOCAL JURISDICTION HAVING AUTHORITY. THIS NOTE SHALL BE INDICATED ON THE DATA PLATE

WINDOW & DOOR SPECIFICATIONS

- DBL. PANE WINDOWS ARE REQUIRED FOR ALL CLIMATE ZONES.
  SEE THE COMCHECK ENERGY CALCULATIONS FOR THE MAXIMUM ALLOWED U-FACTOR AND SHGC.
- THE MAXIMUM ALLOWABLE AIR LEAKAGE RATE FOR WINDOWS IS 0.3 CFM PER SQUARE FEET OF WINDOW AREA. 3. THE MAXIMUM ALLOWABLE AIR LEAKAGE RATE FOR EXTERIOR DOORS IS 0.3 CFM PER SQUARE FEET OF DOOR AREA.

ELECTRICAL NOTES:

1. ALL CIRCUITS AND EQUIPMENT SHALL BE GROUNDED IN ACCORDANCE WITH THE APPROPRIATE ARTICLES OF THE NATIONAL ELECTRICAL CODE (NEC).

2. WHEN LIGHT FIXTURES ARE INSTALLED IN CLOSETS THEY SHALL BE SURFACE MOUNTED OR RECESSED. INCANDESCENT FIXTURES SHALL HAVE COMPLETELY ENCLOSED LAMPS. SURFACE MOUNTED INCANDESCENT FIXTURES SHALL HAVE A MINIMUM CLEARANCE OF 12 INCHES AND ALL OTHER FIXTURES SHALL HAVE A MINIMUM CLEARANCE OF 16 INCHES FROM "CLOSET STORAGE SPACE" AS DEFINED BY NEC ARTICLE 410.2.

3. WHEN WATER HEATERS ARE INSTALLED THEY SHALL BE PROVIDED WITH READILY ACCESSIBLE DISCONNECTS ADJACENT TO THE WATER HEATERS SERVED. THE BRANCH CIRCUIT SWITCH OR CIRCUIT BREAKER SHALL BE PERMITTED TO SERVE AS THE DISCONNECTING MEANS ONLY WHERE THE SWITCH OR CIRCUIT BREAKER IS WITHIN SIGHT FROM THE WATER HEATER OR IS CAPABLE OF BEING LOCKED IN THE OPEN POSITION.

4. HAVAC EQUIPMENT SHALL BE PROVIDED WITH READILY ACCESSIBLE DISCONNECTS ALL UNGROUNDED CONDUCTORS SHALL BE PERMITTED AS THE DISCONNECTING MEANS WHERE OTHER DISCONNECTING MEANS ARE ALSO PROVIDED BY A READILY ACCESSIBLE CIRCUIT BREAKER.

5. PRIOR TO ENERGIZING THE ELECTRICAL SYSTEM THE INTERRUPTING RATING OF THE MAIN BREAKER MUST EE DESIGNED AND VERIFIED AS BEING IN COMPLIANCE (VARTICLES 110.9 & 110.10 OF THE NEW YARTICLES 110.9 & 110.10 OF THE NEW YARTICLES 110.9 & 110.10 OF THE NEW YARTICLES 110.9 CONNECTING MEANS ARE ALSO PROVIDED BY A READILY ACCESSIBLE CIRCUIT BREAKER.

5. PRIOR TO ENERGIZING THE ELECTRICAL SYSTEM THE INTERRUPTING RATING OF THE MAIN BREAKER MUST EE DESIGNED AND VERIFIED AS BEING IN COMPLIANCE (VARTICLES 110.9 & 110.10 OF THE NEW YARTICLES CONNECTORS.

6. THE MAIN ELECTRICAL PANEL AND FEEDERS ARE DESIGNED BY OTHERS, SITE INSTALLED AND SUBJECT TO LOCAL JURISDICTION APPROVAL.

7. ALL CIRCUITS CROSSING OVER MODULE MATING LINE(S) SHALL BE SITE CONNECTED TO A PHOTOCELL OR TIMER.

10. THE BUILDINGS FIRE ALARM SYSTEM (PROTECTIVE SIGNALING SYSTEMS, FIRE DETECTION SYSTEMS, ETC.) SHALL BE DESIGNED IN ACCORDANCE WITH NAPA 101 AND NFPA 72 AND 11.TAMPER RESISTANT RECEPTS TO BE PROVIDED IN EDUCATION BUILDING SERVING ELEMENTARY, PRE-SCHOOL AND YOUNGER.

**ELECTRICAL NOTES:** 

MECHANICAL NOTES:

1. ALL SUPPLY AIR REGISTERS SHALL BE 14 INCHES x 14 INCHES ADJUSTABLE WITH 8 INCHES x 18 INCHES (INSIDE) OVERHEAD FIBERGLASS DUCT, UNLESS OTHERWISE SPECIFIED. DUCTS SHALL BE INSULATED PER THE REQUIRMENTS OF THE APPILICABLE ENERGY CODES INTERIOR DOORS SHALL BE UNDERCUT 1.5 INCHES ABOVE FINISHED FLOOR FOR AIR RETURN AND/OR AS NOTED ON FLOOR PLAN (FOR UNRATED DOORS) HVAC EQUIPMENT SHALL BE EQUIPPED W/OUTSIDE FRESH AIR INTAKES PROMDIN: 10 CFM PER PERSON & 0.12 CFM PER S.F. BLDG. AREA PER SECTION 403.3 OF VENT FANS SHALL BE DUCTED TO THE EXTERIOR AND TERMINATE AT AN APPROVED VENT CAP.

THERMOSTATS MUST BE PROGRAMMABLE . EXHAUST FANS SHALL PROVIDE A MINIMUM OF 70 CFM FOR EACH WATER CLOSET

ATTENTION LOCAL INSPECTIONS DEPARTMENT SITE INSTALLED ITEMS THE FOLLOWING ITEMS HAVE NOT BEEN COMPLETED BY THE MANUFACTURER, HAVE NOT BEEN INSPECTED BY EMC AND ARE NOT CERTIFIED BY THE STATE MODULAR LABEL. NOTE THAT THIS LIST DOES NOT NECESSARILY LIMIT THE ITEMS OF WORK AND MATERIAL THAT MAY BE REQUIRED FOR A COMPLETE INSTALLATION. ALL SITE RELATED ITEMS ARE SUBJECT TO LOCAL JURISDICTION APPROVAL CODE COMPLIANCE MUST BE DETERMINED AT THE LOCAL LEVEL.

1. THE COMPLETE FOUNDATION SUPPORT AND TIE DOWN SYSTEM.
2. RAMPS, STAIRS AND GENERAL ACCESS TO THE BUILDING.
3. PORTABLE FIRE EXTINGUISHER(S).
4. SPRINKLER SYSTEM (WHEN 2018 NFPA 101 IS APPLICABLE AS REQUIRED BY AHJ)
5. ELECTRICAL SERVICE HOOK—UP (INCLUDING FEEDERS) TO THE BUILDING.
6. THE MAIN ELECTRICAL PANEL AND SUB—FEEDERS
7. CONNECTION OF ELECTRICAL CORGUING CONCERNOUSE. 6. THE MAIN ELECTRICAL PANEL AND SUB-FEEDERS
7. CONNECTION OF ELECTRICAL CIRCUITS CROSSING OVER MODULE
MATELINE(S) — (MULTI-UNITS ONLY).
8. STRUCTURAL AND AESTHETIC INTERCONNECTIONS BETWEEN MODULES
(MULTI-UNITS ONLY).
9. FIRE INSPECTION
10. GLAZED OPENING PROTECTION (SEE GENERAL NOTE NO. 8)

14. GAS HOOK-UP

STRUCTURAL LOAD LIMITATIONS BUILDING RISK CATEGORY: III A. 40 PSF, 100 PSF CORRIDOR B. 1000 LB. CONCENTRATED LOAD OVER 30 INCH x 30 INCH AREA LOCATED ANYWHERE ON FLOOR ROOF LIVE LOAD: ROOF SNOW LOAD: GROUND SNOW LOAD FLAT ROOF SNOW LOAD C. Ce = 1.0 D. Is = 1.1 E. Ct = 1.1 SNOW EXPOSURE FACTOR SNOW IMPORTANCE FACTOR SNOW THERMAL FACTOR WIND LOAD: ASCE 7-10 A. 140 MPH Vult WIND SPEED WIND SPEED B. 109 mph Vasd WIND IMPORTANCE FACTOR
WIND EXPOSURE CATEGORY
INTERNAL PRESSURE COEFFICIENT C. lw = 1.0 E. GCpi= 0.18 F. ROOF ZONE 1: P = 14.8 PSF ROOF ZONE 2: P = 14.8 PSF ROOF ZONE 3: P = 14.8 PSF ROOF ZONE 3: P = 14.8 PSF ROOF ZONE 4: P = 23.5 PSF ROOF ZONE 5: P = 23.5 PSF ROOF ZONE 5: P = 23.5 PSF (Pasd = -25.4 PSF) (Pasd = -25.4 PSF) OH EXTERIOR ZONE: P = 51.7 PSF OH CORNER ZONE: P = 84.3 PSF

 THIS BUILDING IS NOT DESIGNED FOR PLACEMENT ON THE UPPER HALF OF A HILL OR ESCARPMENT EXCEEDING 15 FEET IN HEIGHT. SEISMIC LOAD: A. I<sub>E</sub> = 1.25

B. D

SITE CLASS
C. A15
D. B

E. EQUIVALENT LATERAL FORCE ANALYSIS PROCEDURE
F. Ss = \( \ldots \).285
MAPPED SPECTRAL RESPONSE COEF.
MAPPED SPECTRAL RESPONSE COEF.
MAPPED SPECTRAL RESPONSE COEF.
MAPPED SPECTRAL RESPONSE COEF.
J. V = 5049 LB
DESIGN BASE SHEAR
K. R = 6.5
L Cs = 0.09

SISSIMIC IMPORTANCE FACTOR
MAPPED SPECTRAL RESPONSE COEF.
MAPPED SPECTRAL RESPONSE COEFFICIENT
J. V = 5049 LB
DESIGN BASE SHEAR
K. R = 6.5
L Cs = 0.09

SISSIMIC MEDITANCE FACTOR
MAPPED SPECTRAL RESPONSE COEFFICIENT
SEISMIC RESPONSE COEFFICIENT
SEISMIC RESPONSE COEFFICIENT FLOOD LOAD: THIS BUILDING IS NOT DESIGNED TO BE LOCATED IN A FLOOD HAZARD AREA.

1111 OVERHANG: RIGHT ELEVATION ENDWALLS: HATCH INDICATES EXISTING MODULAR BUILDING LEFT ELEVATION

REAR ELEVATION

FRONT ELEVATION

SIDE ELEVATIONS/PROFILE OF NEW BUILDING SHALL BE THE SAME AS THE EXISTING BUILDING

NOTE:
THIS PLAN IS FOR 2 NEW MODULES THAT WILL
INSERETED INTO AN EXISTING BUILDING. THE
INCORPORATION OF THESE TWO MODULES INTO THE
EXISTING BUILDING SHALL BE DESIGNED BY A
LICENSED ENGINEER AND IS SUBJECT TO REVIEW
AND APPROVAL BY AUTHURITY HAVING
JURISDICTION.

BUILDING DESIGN PARAMETERS EDUCATION . USE/OCCUPANCY:

NO \*\* 2. CONSTRUCTION TYPE: 3. SPRINKLER SYSTEM: 4. BUILDING AREA: 8228 S.F. 1859 S.F. EXISTING: ADDITION: ≤ 15 FEET 1 5. BUILDING HEIGHT: 5. NUMBER OF STORIES: 7. NUMBER OF NODULES: 9 MODULES EXISTING: ADDITION: 2 MODULES

B. OCCUPANT LOAD USING 20 NET SF/PERSON IN CLASSROOM 74 OCCUPANTS EXISTING: ADDITION:

. EXTERIOR WALL FIRE RATING: NOT RATED THIS BUILDING MUST BE INSTALLED WITH THE FIRE SEPARATION DISTANCES REQUIRED BY IBC 602 AND SECTION 705.3

TOTAL BUILDING COMPLIANCE SHALL BE COMPLETED BY THE DESIGNER OF THE ENTIRE BUILDING PER APPROVAL OF AUTHORITY HAVING JURISDICTION. . MANUFACTURERS DATA PLATE, STATE LABELS AND EMC LABELS ARE TO BE LOCATED ADJACENT TO ELECTRICAL PANEL.

NOTE:

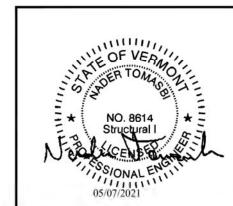
\*\* SPRINKLER SYSTEM IS TO BE PROVIDED IF INSTALLED IN MAINE PER LOCAL JURISDICTION REQUIRMENT.

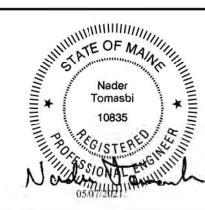
THIS PLAN IS FOR 2 NEW MODULES THAT WILL BE INSERTED INTO AN EXISTING BUILDING.

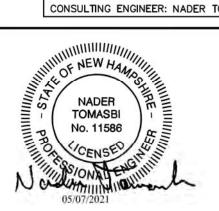
**APPROVED** 05 07 2021

			CODE SU	MMARY:		
STATE	BUILDING	ELECTRICAL	MECHANICAL	PLUMBING	ACCESSIBILTY	ENERGY CODE
VERMONT	2015 IBC W/AMEND 2015 UFC 2015 NFPA 101 W/ AMEND, 2015 NFPA 101 W/AMEND	2017 VT ELECTRICAL SAFETY RULES 2017 NEC W/AMEND	2015 VT FIRE & BLD. SAFETY CODE/2015 NFPA 1 NFPA 90A	2017 VT PLUMB. RULES 2018 IPC W/AMEND	2012 VT ACCESSIBIILTY RULES 2010 ADA	VT 2020 COMMERICAL BLD. ENERGY STD.(CBES 2018 IECC W/AMENDS
	FIRE CODE					
	2015 VT FIRE CODE BLDG SAFETY CODE					
Ì	2015 MUBEC (2015 IBC)					
MAINE	FIRE CODE	2017 NEC	2013 62.1	MAINE	2009 ICC/	2015 MUBEC
	2006 NFPA 1		ASHRAE	PLUMBING CODE (2015 UPC)	ANSI A117.1	(2009 IECC) OR 2013 ASHRAE
	LIFE SAFETY					2010 ASIIKAL
	2018 NFPA 101					
NEW HAMPSHIRE	2015 IBC W/AMEND SAF-C 6000 2015 NFPA 101 W/ AMEND, 2015 NFPA1 W/AMEND	2017 NEC W/AMENDS	2015 IMC W/AMENDS	2015 IPC W/AMENDS	2009 ICC ANSI A177.1 FHA/UFAS AS APPLICABLE	2015 IECC W/AMENDS

COVER SHEET







NADER	TOMASBI,	P.E	- 58665	5 GLENRIVER	DRIVE - GOS	SHEN, IN.	46528 -	574-370-3419
					IAMOND D. BOX 2200 UGLASS, GEORGIA			
		- 11	ATE:	5-6-21	REVISIONS:			
		s	CALE :	3/16"=1'-0"				
			ODES:	SEE NOTES				40.00
i.		s	TATES: N	l.H.				BY:
		R	EFERENC	E: 8194				N.T.
~		- 11		DI	319329 A	/B		SHEET
		Ш		27'-4"	x 66'-C	" EDU	CATION	
		11.0						4 05 7

ACCESSIBILITY NOTES:

THE INTERNATIONAL SYMBOL OF ACCESSIBILITY SIGN SHALL BE DISPLAYED AT ALL ACCESSIBLE RESTROOM FACILITIES AND AT ACCESSIBLE BUILDING ENTRANCES UNLESS ALL ENTRANCES ARE ACCESSIBLE. INACCESSIBLE ENTRANCES SHALL HAVE DIRECTIONAL SIGNS INDICATING THE ROUTE TO THE NEAREST ACCESSIBLE ENTRANCE.

ACCESSIBLE DRINKING FOUNTAINS SHALL HAVE A SPOUT HEIGHT NO HIGHER THAN 36 INCHES ABOVE THE FLOOR AND EDGE OF BASIN NO HIGHER THAN 34 INCHES ABOVE THE FLOOR FOR INDIVIDUALS IN WHEELCHAIRS. ADDITIONALLY, DRINKING WATER PROVISISHALL BE MADE FOR INDIVIDUALS WHO HAVE DIFFICULTY BENDING.

SHALL BE MADE FOR INDIVIDUALS WHO HAVE DIFFICULTY BENDING.

3. WHERE STORAGE FACILITIES SUCH AS CABINETS, SHELVES, CLOSETS AND DRAWERS ARE PROVIDED AT LEAST ONE TYPE PROVIDED SHALL CONTAIN STORAGE SPACE COMPLYING WITH THE FOLLOWING: DOORS ETC. TO SUCH SPACES SHALL BE ACCESSIBLE (I.E. TOUCH LATCHES, U—SHAPED PULLS); SPACES SHALL BE 15 INCHES MINIMUM AND 48 INCHES MAXIMUM ABOVE THE FLOOR FOR FORWARD REACH OR SIDE REACH; CLOTHES RODS OR COAT HOOKS SHALL BE A MAXIMUM of 48 INCHES ABOVE THE FLOOR (46 INCHES MAXIMUM WHEN DISTANCE FROM WHEEL CHAIR TO ROD EXCEEDS 10 INCHES). SHELVES IN KITCHENS OR TOILET ROOMS SHALL BE 40 INCHES MINIMUM AND 48 INCHES MAXIMUM ABOVE IN FLOOR.

4. CONTROLS, DISPENSERS, RECEPTACLES AND OTHER OPERABLE EQUIPMENT SHALL BE MOUNTED NO LESS THAN 15 INCHES ABOVE THE FLOOR. RECEPTACLES ON WALLS SHALL BE MOUNTED NO LESS THAN 15 INCHES ABOVE THE FLOOR. EXCEPTION; HEIGHT LIMITATIONS DO NOT APPLY WHERE THE USE OF SPECIAL EQUIPMENT DICTATES OTHERWISE OR WHERE ELECTRICAL RECEPTACLES ARE NOT NORMALLY INTENDED FOR USE BY BUILDING OCCUPANTS.

5. WHERE EMERGENCY WARNING SYSTEMS ARE PROVIED, THEY SHALL INCLUDE BOTH AUDIBLE AND VISUAL ALARMS. THE VISUAL ALARMS SHALL BE LOCATED THROUGHOUT, INCLUDING RESTROOM, AND PLACED 80 INCHES ABOVE THE FLOOR OR 6 INCHES BELOW CEILING, WHICH—EVER IS LOWER.

EVER IS LOWER.

6. ALL DOORS SHALL BE OPENABLE BY A SINGLE EFFORT. DOOR CLOSERS SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90 DECREES, THE TIME REQUIRED TO MOVE THE DOOR TO AN OPEN POSITION OF 12 DECREES SHALL BE 5 SECONDS MINIMUM. THE MAXIMUM FORCE REQUIRED FOR PUSHING OR PULLING OPEN DOORS OTHER THAN FIRE DOORS SHALL NOT EXCEED 5 LBS. FOR ALL SLIDING, FOLDING, AND INTERIOR HINGED DOORS.

PROCESS OF ALL SIDING, FOLDING, AND INTERIOR HINGED DOORS.

FLOOR SURFACES SHALL BE STABLE, FIRM, AND SLIP-RESISTANT. CHANGES IN LEVEL BET—WEEN 0.25 INCH AND 0.5 INCH SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1:2 CHANGES IN LEVEL GREATER THAN 0.5 INCH REQUIRE RAMPS. CARPET PILE THICKNESS SHALL BE 0.5 MAX. GRATINGS IN FLOOR SHALL HAVE SPACES NO GREATER THAN 0.5 INCH WIDE IN CNE DIRECTION. DOORWAY THRESHOLDS SHALL NOT EXCEED 0.5 INCH IN HEIGHT.

ONE DIRECTION. DOORWAY THRESHOLDS SHALL NOT EXCEED 0.5 INCH IN HEIGHT.

8. ACCESSIBLE WATER CLOSETS SHALL BE 17 INCHES TO 19 INCHES, MEASURED FROM THE FLOOR TO THE TOP OF THE SEAT. GRAB BARS SHALL BE 36 INCHES LONG MINIMUM WHEN LOCATED BEHIND WATER CLOSET AND 42 INCHES MINIMUM WHEN LOCATED ALONG SIDE OF WATER CLOSET, AND SHALL BE MOUNTED 33 INCHES TO 36 INCHES ABOVE THE FLOOR. IN ADDITION, A VERTICAL GRAB BAR 18 INCHES MINIMUM IN LENGTH SHALL BE NOUNTED ON THE SIDEWALL WITH THE BOTTOM OF THE BAR LOCATED BETWEEN 39 AND 41 INCHES ABOVE THE FLOOR, AND WITH THE CENTER LINE OF THE BAR LOCATED BETWEEN 39 INCHES AND 41 INCHES FROM THE REAR WALL.

. ACCESSIBLE URINALS SHALL BE STALL—TYPE OR WALL HUNG WITH ELONGATED RIMS AT A NAXIMUM OF 17 INCHES ABOVE THE FLOOR.

10. ACCESSIBLE LAVATORIES AND SINKS SHALL BE MOUNTED WITH THE RIM NO HIGHER THAN 34 INCHES ABOVE THE FLOOR (THIS EXCLUDES SINKS IN CABINETRY). KNEE CLEARANCE OF AT LEAST 27 INCHES HIGH MUST BE PROVIDED WITH A MINIMUM DEPTH OF 8 INCHES BENEATH THE FIXTURE, AND 9 INCHES HIGH MINIMUM WITH A MINIMUM DEPTH OF 11 INCHES BENEATH THE FIXTURE. THE KNEE SPACE MUST BE AT LEAST 30 INCHES WIDE.

11. HOT WATER AND DRAIN PIPES UNDER ACCESSIBLE LAVATORIES AND SINKS SHALL BE INSULATED OR OTHERWISE CONFIGURED TO PROTECT AGAINST CONTACT. INSULATION OR PROTECTION MATERIALS MAY BE SITE INSTALLED. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER ACCESSIBLE LAVATORIES AND SINKS.

13. NIRRORS LOCATED ABOVE LAVATORIES, SINKS OR COUNTERS SHALL BE MOUNTED WITH THE BOTTOM EDGE OF THE REFLECTING SURFACE A MAXIMUM OF 40 INCHES ABOVE THE FLOOR. OTHER MIRRORS IN TOILET ROOMS SHALL BE MOUNTED WITH THE BOTTOM EDGE OF THE REFLECTING SURFACE 35 INCHES MAXIMUM ABOVE THE FLOOR.

14. GRAB BARS HAVING A CIRCULAR CROSS SECTION SHALL HAVE AN OUTSIDE DIAMETER OF 1.2 INCHES MINIMUM AND 2.0 INCHES MAXIMUM. THE SPACE BETWEEN THE GRAB BAR AND THE

15. WATER CLOSET FLUSH CONTROL SHALL BE INSTALLED A MAXIMUM OF 36 INCHES ABOVE THE FLOOR AND SHALL BE LOCATED ON THE OPEN SIDE OF THE WATER CLOSET. 16. DOORS TO ALL ACCESSIBLE SPACES SHALL HAVE ACCESSIBLE HARDWARE (I.E. LEVER — CPERRATED, PUSHTYPE, U-SHAPED) MOUNTED WITH OPERABLE PARTS BETWEEN 34 INCHES MINIMUM AND 48 INCHES MAXIMUM ABOVE THE FLOOR.

18. A TOWEL DISPENSER SHALL BE LOCATED ADJACENT TO ALL ACCESSIBLE LAVTORIES.

SPECIAL CONDITIONS AND REQUIRMENTS

ANY SITE ADDED STRUCTURES MUST BE INDEPENDENT OF THE FACTORY BUILDING UNLESS THE ENTIRE BUILDING IS REVALUATED BY THE SITE ENGINEER.

● TYPICAL FOUNDATION LAYOUT SHOWN IN THIS PACKAGE IS TO AID THE SITE ENGINEER/ARCHITECT FOR LOCATIONS OF REQUIRED SUPPORTS. ACTUAL FOUNDATION MUST BE DESIGNED TO SITE CONDITIONS FOR ALL APPLICABLE LOADS. THIS INCLUDES BUT IS NOT LIMITED TO CONSTRUCTION OF THE FOUNDATION, SEISMIC DESIGN AND ATTACHING THE BUILDING TO THE FOUNDATION, ALONG WITH THE RESISTANCE TO LATERAL, LONGTUDINAL SHEAR, UPLIFT AND DOWNWARD FORCES IN BOTH DIRECTIONS. REFER TO BRACING PAGE FOR APPLICABLE BRACING/SEISMIC LOADS FOR ATTACHING THE BUILDING TO FOUNDATIONS.

● ENGINEER SEAL APPLIES ONLY TO FACTORY MANUFACTURED STRUCTURAL PORTION OF THE BUILDING. SEAL DOES NOT APPLY TO SITE INSTALLED ELEMENTS OR PORTIONS BUILT ON SITE SUCH AS, BUT NOT LIMITED TO: FOUNDATION, BRACING TIE DOWN TO FOUNDATION, EXTERIOR STEPS,, OR OTHER SITE WORKS. SITE WORK MUST BE DESIGNED BY OTHERS FOR SITE CONDITIONS, UNDER LOCAL JURISDICATION.

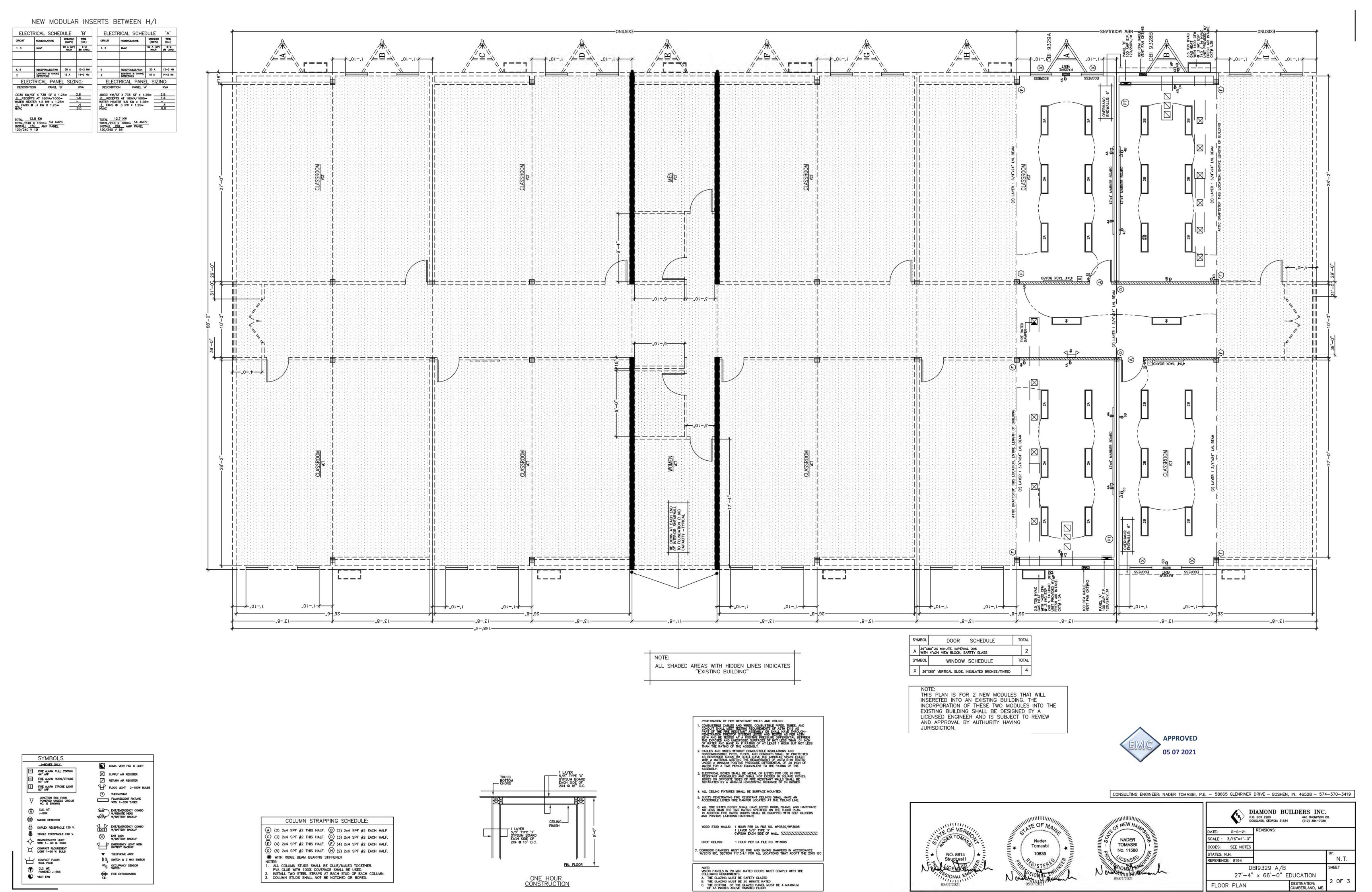
WALL SHALL BE 1.5 INCHES.

7. TOILET STALL DOORS SHALL BE THE SELF-CLOSING TYPE.

ACCESSIBLE LAVATORIES AND SINKS SHALL HAVE ACCESIBLE FAUCETS (I.E. LEVER-OPERATED, FUSH TYPE, ELECTRONICALLY CONTROLLED).

DESTINATION:

CUMBERLAND, N



10 CLASSROOM

A10.2

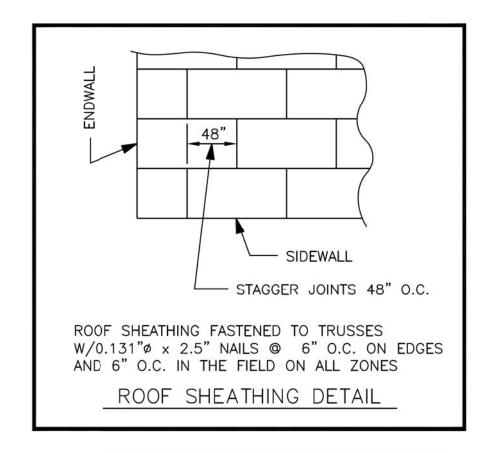
## GENERAL CROSS-SECTION NOTES:

- 1. UNLESS OTHERWISE SPECIFIED, ALL STEEL MUST COMPLY W/ ASTM A36, YIELD STRENGTH = 36 KSI.
- 2. ALL LAG SCREWS MUST COMPLY W/ ANSI/ ASME B18.2.1. FYB= 60 KSI MINIMUM.
- 3. SEE FOUNDATION PLAN FOR PIER AND TIE-DOWN STRAPPING LOCATIONS, ORIENTATIONS, AND SPECIFICATIONS.

## EXTERIOR FINISH MATERIAL:

ROOF - MULE-HIDE 45 MIL (BLACK) EPDM (ESR-1463) FULLY ADHERED TO 7/16" OSB OR 1/2" PLYWOOD WITH MULE-HIDE FR ADHESIVE IN ACCORDANCE WITH INTERTEK REPORT CCRR-1078 (CLASS C ROOF)

WALL - VINYL LAP SIDING OVER 7/16" OSB SHEATHING APPROVED MOISTURE BARRIER INSTALLED PER MANUFACTURERS SPECIFICATIONS

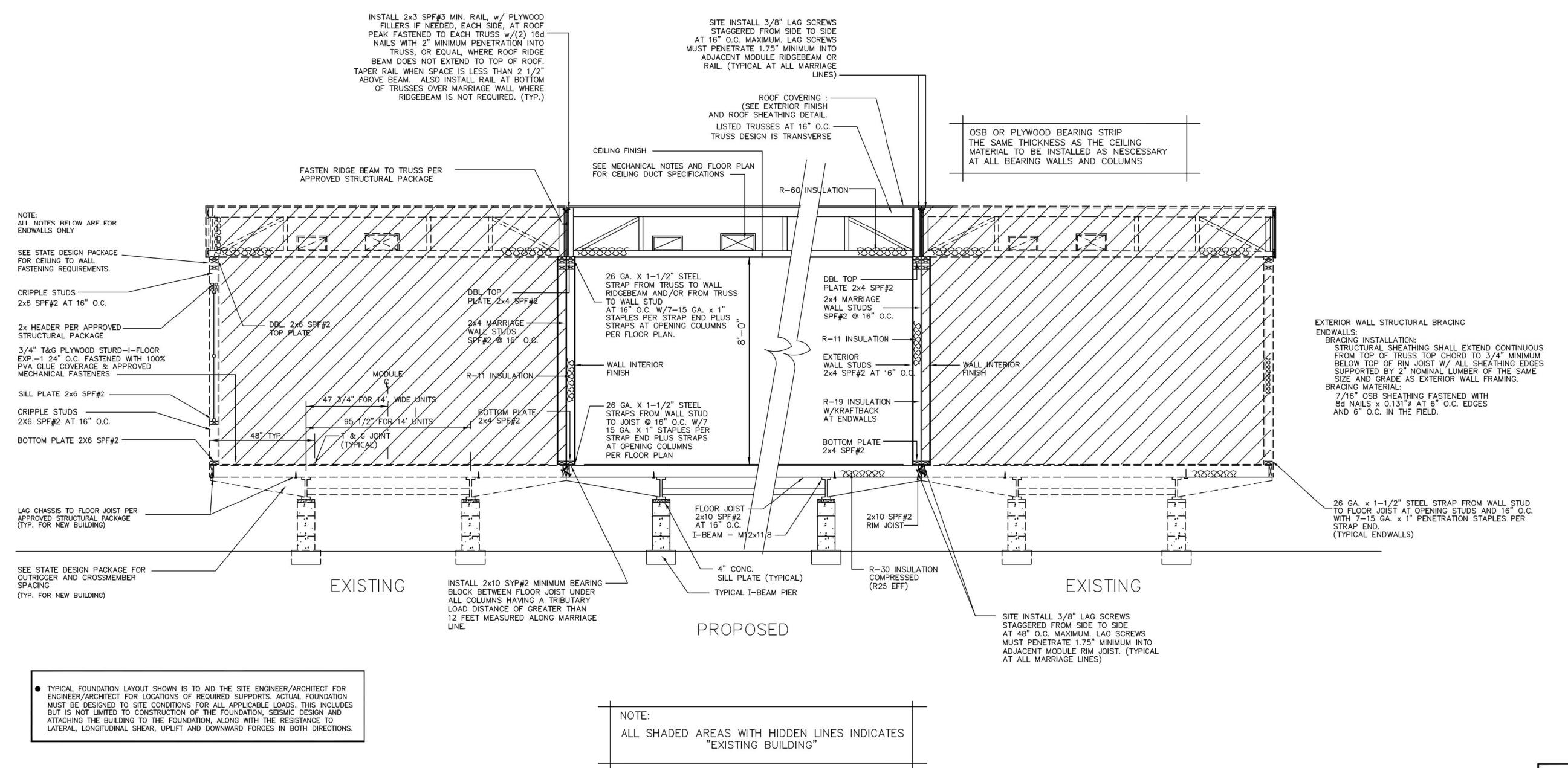


APPROVED TRUSS DESIGN:

TRUSS DRAWING. #

TRUSS MANUFACTURER: WOOD COMPONENTS

SOUTHEREN



INTERIOR FINISH MATERIAL:

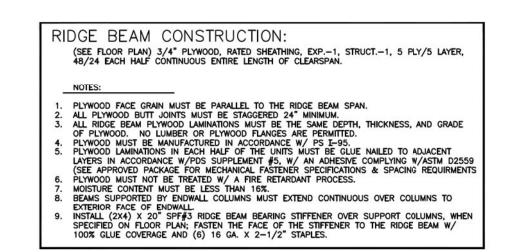
- 1/2" GYP. BOARD INSTALLED PER MANUFACTURERS SPECIFICATIONS, SEASPRAY FINISH

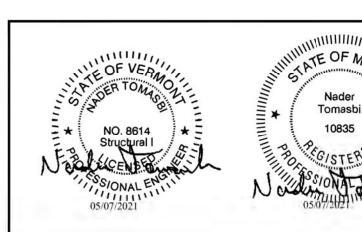
- 1/2" GYPSUM BOARD (VCG THROUGH OUT) INSTALLED

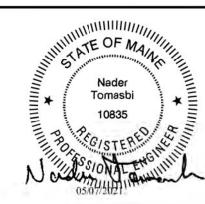
PER MANUFACTURERS SPECIFICATIONS

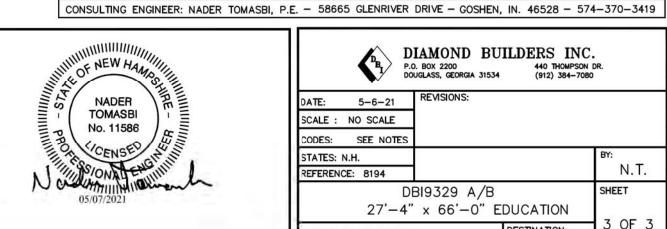
FLOOR - AS NOTED ON FLOOR PLAN

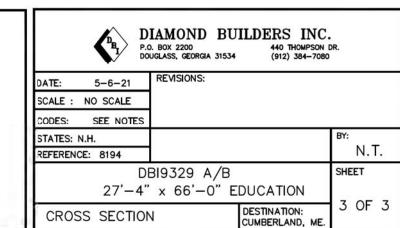
INTERIOR WALL AND CEILING FINISH SHALL BE CLASS B OR BETTER IN IN CORRIDORS AND CLASS C OR BETTER IN ROOMS AND ENCLOSED SPACES. FLOOR FINISHES SHALL BE CLASS II OR BETTER.





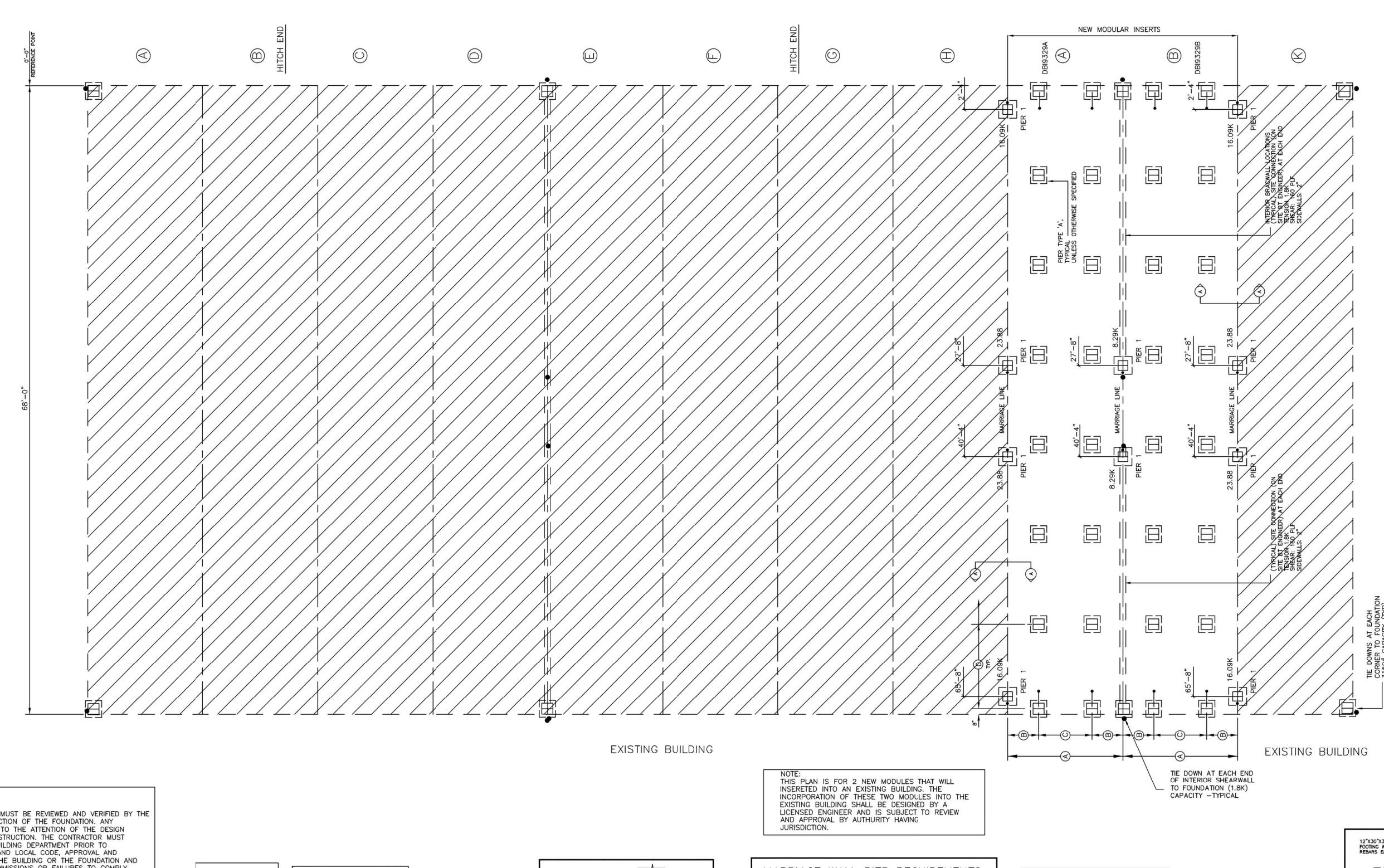






10 CLASSROOM

A10.3



## NOTICE TO FOUNDATION CONTRACTOR:

ALL DIMENSIONS. DETAILS AND NOTES ON THIS FOUNDATION PLAN MUST BE REVIEWED AND VERIFIED BY THE FOUNDATION CONTRACTOR PRIOR TO COMMENCEMENT OF CONSTRUCTION OF THE FOUNDATION. ANY APPARENT CONFLICTS, ERRORS OR OMISSIONS MUST BE BROUGHT TO THE ATTENTION OF THE DESIGN PROFESSIONAL FOR RESOLUTION PRIOR TO PROCEEDING WITH CONSTRUCTION. THE CONTRACTOR MUST OBTAIN APPROVAL OF THE FOUNDATION PLAN FROM THE LOCAL BUILDING DEPARTMENT PRIOR TO COMMENCING CONSTRUCTION AND MUST COMPLY WITH ALL STATE AND LOCAL CODE, APPROVAL AND AND INSPECTION REQUIREMENTS. EMC IS NOT THE DESIGNER OF THE BUILDING OR THE FOUNDATION AND IS NOT RESPONSIBLE OR LIABLE FOR ANY CONFLICTS, ERRORS, OMMISSIONS OR FAILURES TO COMPLY WITH STATE OR LOCAL CODES.

## FOUNDATION NOTES:

- 1. ALL FOUNDATION CONSTRUCTION, MATERIALS, AND INSTALLATION SHALL BE IN ACCORDANCE WITH ALL APPLICABLE STATE AND LOCAL CODES.

  2. TIE—DOWN STRAPS TO BE 1—1/4\*x .035" TYPE—1, FINISH B, GRADE 1 ZINC COATED STELL STRAPPING CERTIFIED BY A REGISTERED ENGINEER OR ARCHITECT AS CONFORMING WITH ASTM D3953—91. TIE DOWN STRAPS AND CONNECTING HARDWARE SHALL HAVE 3150\( \) MINIMUM WORKING CAPACITY.

  3. EACH GROUND ANCHOR SHALL HAVE A WORKING CAPACITY NO LESS THAN THE SUM OF THE REQUIRED WORKING CAPACITY.

  3. EACH GROUND ANCHOR, AND SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS. DESIGN OF GROUND ANCHOR, INCLUDING SHAFT LENGTH, NUMBER AND DIAMETER OF HELIXES, ETC., TO BE AS SPECIFIED BY THE GROUND ANCHOR AND SHALL BE INSTALLED IN ACCORDANCE WITH THE HOLDING OR PULLOUT CAPACITIES OF GROUND ANCHORS ARE BELOW THE ASSUMED DESIGN VALUES, THE ARCHITECT/ENGINEER MUST BE CONSULTED FOR AN ALTERNATE ANCHORAGE DESIGN.

  4. THE FIRST TIE—DOWN STRAP FROM ENDWALLS SHALL NOT EXCEED 1/2 THE MAXIMUM SPACING INDICATED.

  5. ALL PIERS SHALL BE CONSTRUCTED OF CONCRETE MASONRY UNITS CONFORMING TO ASTM C90. MASONRY UNITS SHALL BE LAID IN TYPE M OR S MORTAR OR COVERED WITH SURFACE BONDING CEMENT INSTALLED IN ACCORDANCE WITH ITS LISTING. PIER FOOTINGS SHALL BE AS DESCRIBED ABOVE.

  6. MINIMUM CONCRETE FOOTING COMPRESSIVE STRENGTH 2,500 PSI AT 28 DAYS.

  7. ALL REINFORCEMENT BARS SHALL BE EQUILITY SPACED AND PLACED WITH 3" CLEARANCE FROM BOTTOM AND SIDES OF THE FOOTING.

  8. SEE SHEET 1 OF 3 FOR BUILDING DESIGN LOADS.

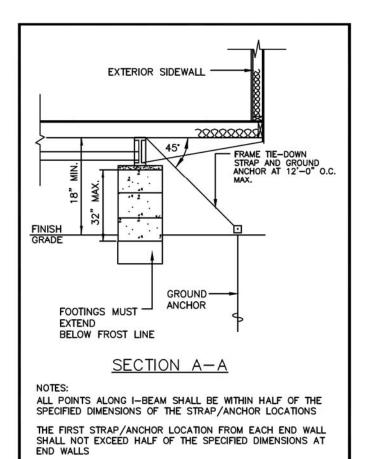
  9. I—BEAM SUPPORT PIERS MAY BE INSTALLED LATERALLY (90° FROM THE ORIENTATION SHOWN ON THE FOUNDATION PLAN). CENTERINE OF EACH PIER MUST BE LOCATED DIRECTLY BELOW THE IMPROVED FROM BOTTOM AND SIDES OF THE FOOTING.

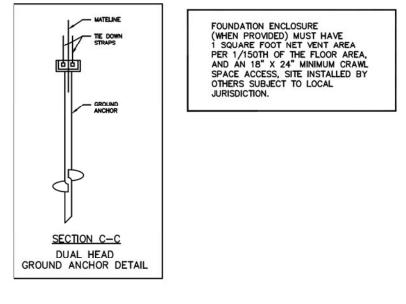
  10. SOIL BEARING CAPACITY SHOWN ON THIS PLAN IS ASSUMED. IF THE ACTUAL SOIL BEARING CAPACITY IS LESS THAN 2,000 PSF, THE ARCHITECT/FUNCINEER MUST BE PLACED ON NON—EXPANSIVE SOILS ONLY.

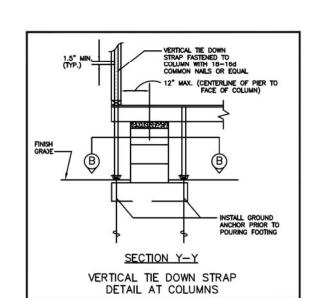
  11. INSTALLATION OF BUILDING IS COMPLETE.

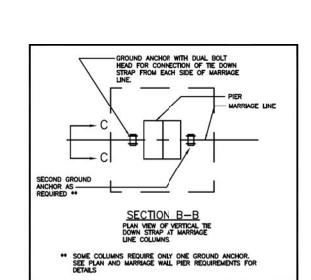
  12. THE FOUNDATION CONTRACTOR AND MODULAR BUILDING INSTALLATION OF THE BUILDI

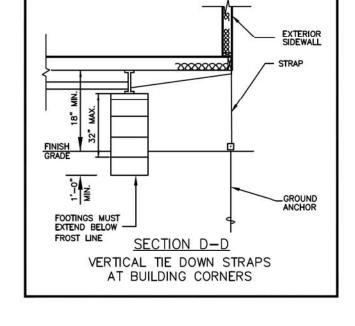
- 13. THE AREA UNDER FOOTINGS AND FOUNDATIONS SHALL HAVE ALL VEGETATION, STUMPS, ROOTS, AND FOREIGN MATERIALS REMOVED PRIOR TO THEIR CONSTRUCTION.

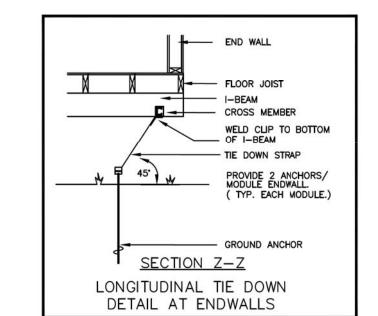


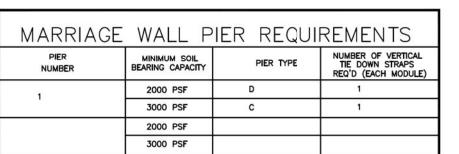






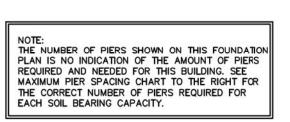




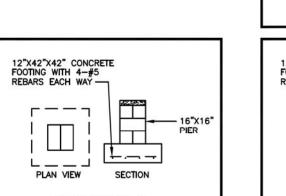


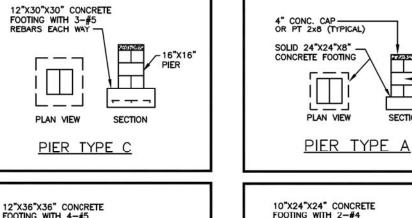
NOTE:
THIS FOUNDATION PLAN IS PROVIDED FOR REFERENCE AS A TYPICAL STANDARD. ACTUAL FOUNDATION CONDITIONS MUST BE EVALUATED FOR APPLICABILITY IF THIS PLAN IS TO BE
USED. ALTERNATE FOUNDATION PLANS MAY BE DESIGNED BY OTHERS IN ACCORDANCE WITH THE REQUIREMENTS OF THE
JURISDICTION HAVING AUTHORITY.

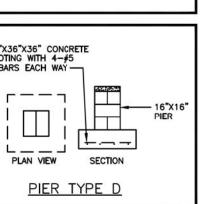
APPROVED 05 07 2021
05 07 2021

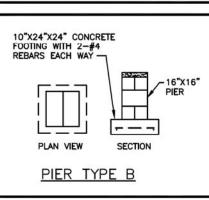


MODULE WIDTH		R TO DULE EDGE	C STEEL BEAN SPACING  95 1/2"	
'-8"	3	4 1/4"		
MAXIMUM P SPACING	IER	MINIMUM SO BEARING CA	877	KIPP
6'-6" 6'-6"		2000 PS		6.93K 6.93K



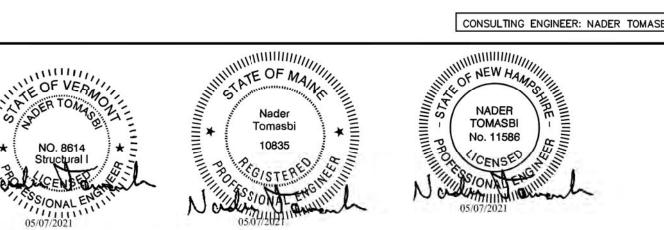






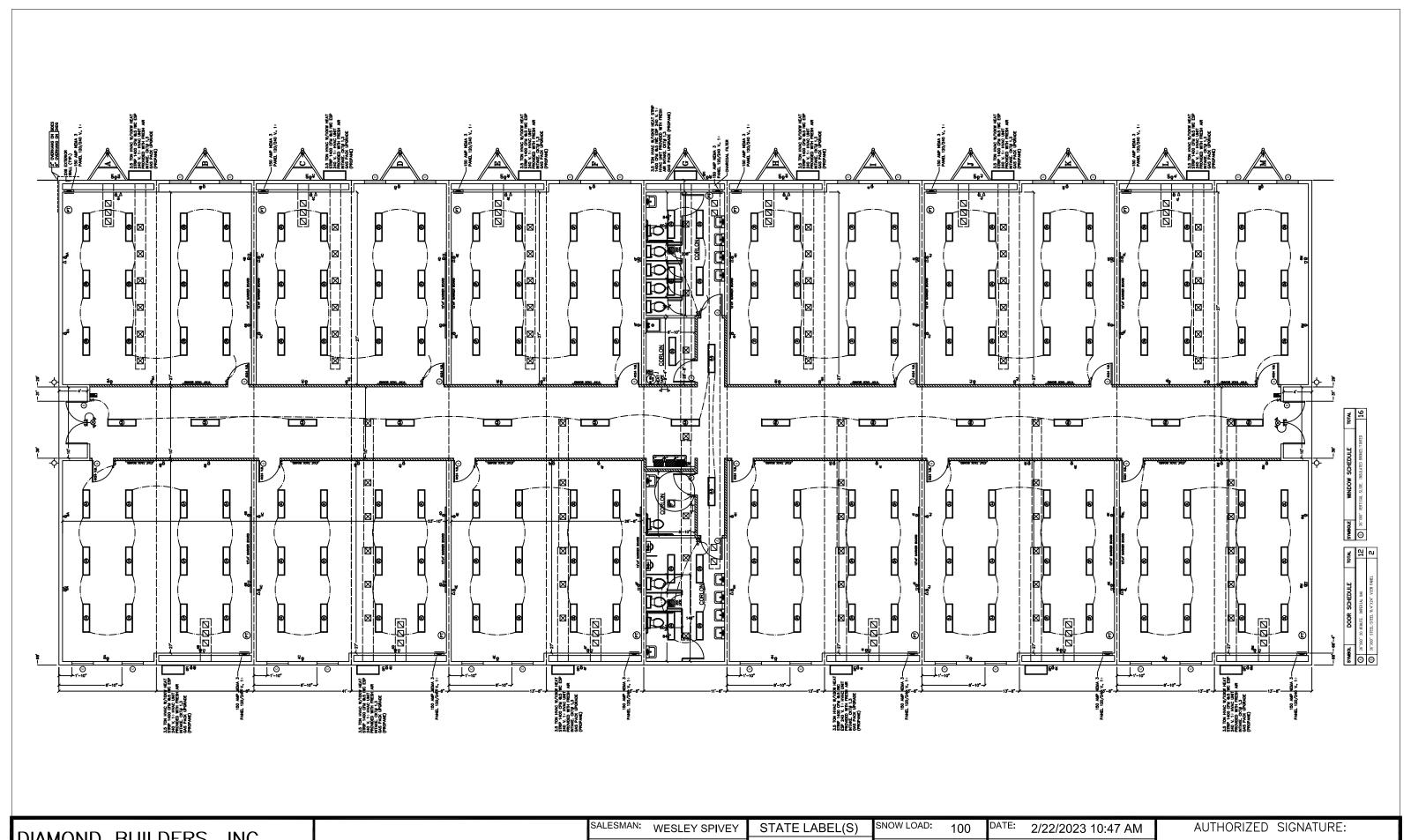
16"x16"x8"

SECTION



CONSULTING ENGINEER: NADER TOMASBI. P.E. - 58665 GLENRIVER DRIVE - GOSHEN, IN. 46528 - 574-370-3419 DIAMOND BUILDERS INC. P.O. BOX 2200 440 THOMPSON DR. DOUGLASS, GEORGIA 31534 (912) 384-7080 DATE SCAL 5-6-21 SCALE : CODES: SEE NOTES STATES: N.H. REFERENCE: 8194 SHEET DBI9329 A/B  $27'-4" \times 66'-0"$  EDUCATION DESTINATION: **FOUNDATION** CUMBERLAND, ME

10 CLASSROOM



DIAMOND BUILDERS, INC. 440 THOMPSON DRIVE, DOUGLAS, GA. 31535 PHONE: (912)384-7080 FAX: (912)384-5721

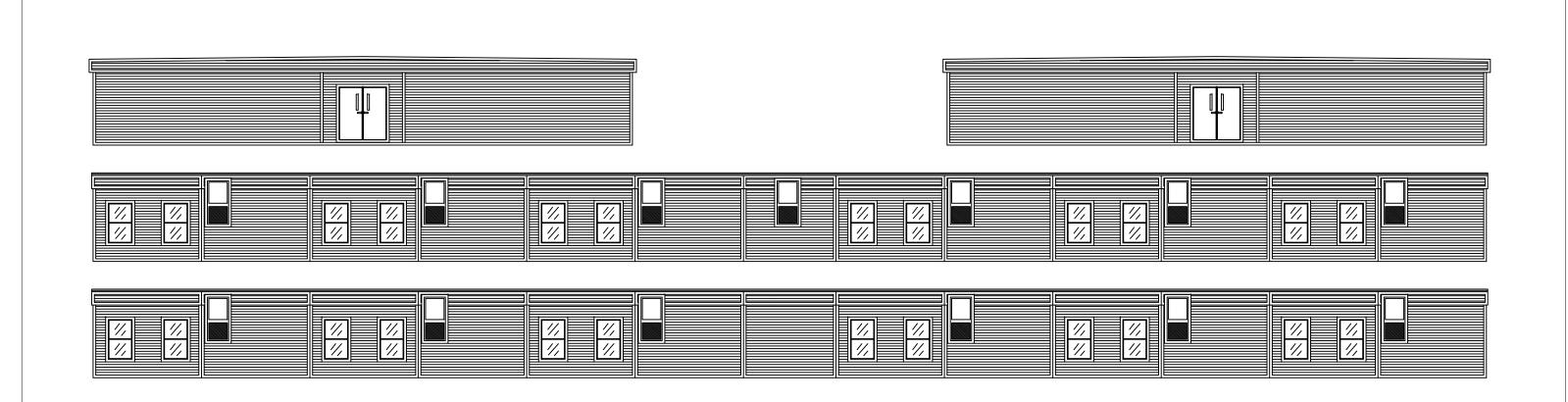
**SCHIAVI LEASING** 

ME, VT, NH 180X68 OCCUPANCY: **EDUCATION** 

WIND LOAD: QUOTE#: 15815

140

DRAWN BY: BMSERIAL#: DBI 10628



DIAMOND BUILDERS, INC. 440 THOMPSON DRIVE, DOUGLAS, GA. 31535 PHONE: (912)384-7080 FAX: (912)384-5721

SCHIAVI LEASING

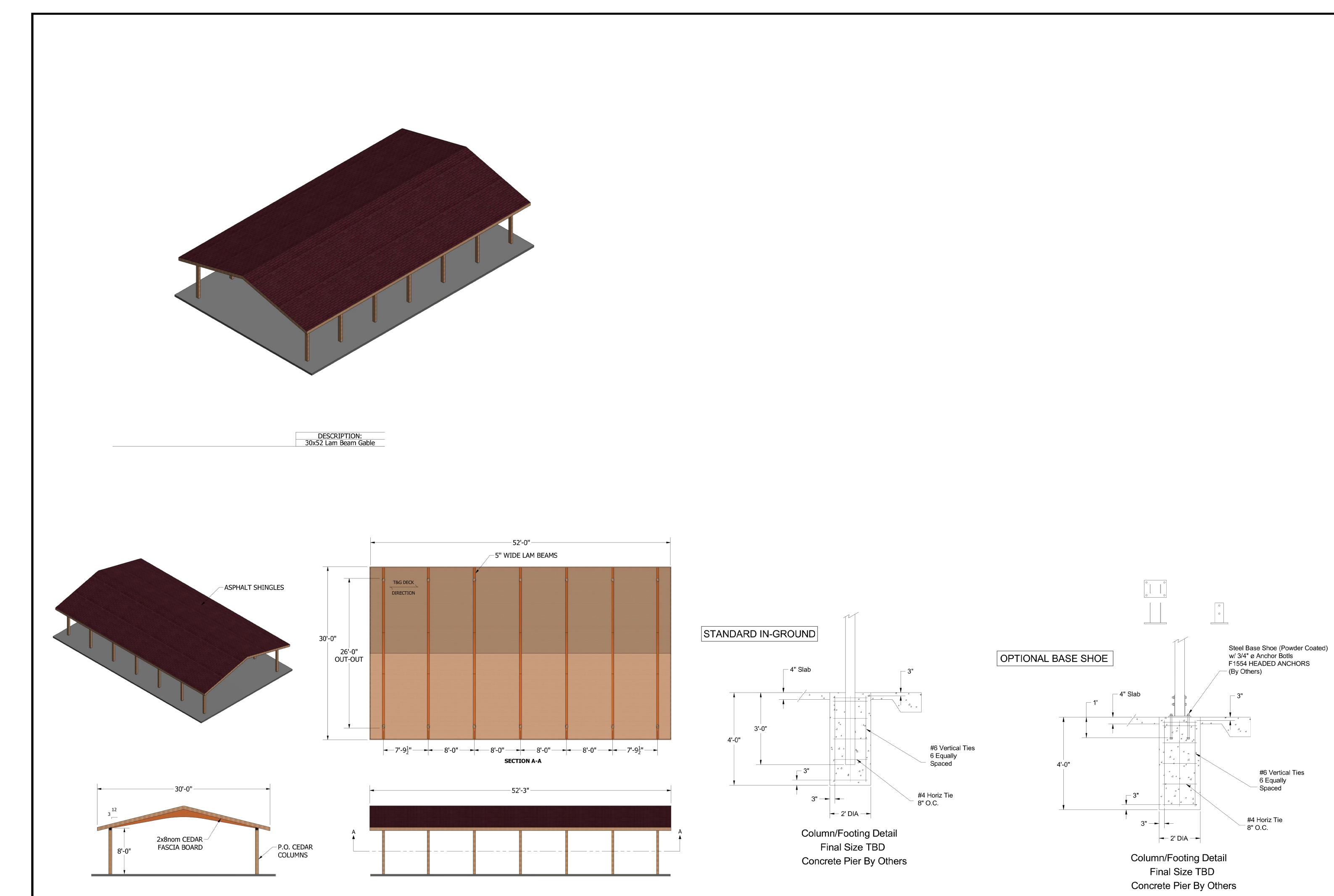
SALESMAN: WESLEY SPIVEY STATE LABEL(S)
SIZE: 180X68 ME, VT, NH
OCCUPANCY: EDUCATION

 SNOW LOAD:
 100
 DATE:
 2/23/2023 10:47 AM

 WIND LOAD:
 140
 DRAWN BY:
 BM

 QUOTE#:
 15815
 SERIAL#:
 DBI 10628

AUTHORIZED SIGNATURE:



DESCRIPTION: 30x52 Lam Beam Gable OWNER:

MSAD #51 Cumerland, Maine

ASAD 51 AODULAR CLASSROOM

Revisions Date Description P

SHADE CANOPY
PLAN

Phase:
PERMITTING



CARROLL ASSOCIATES
LANDSCAPE ARCHITECTS

MARCH 31, 2023

Sheet No:

DESCRIPTION: 30x52 Lam Beam Gable

S1.0