TOWN OF WATERBURY ZONING PERMIT APPLICATION

Date:	Application #:
Fees Paid: _	+ \$15 recording fee =
Parcel ID #:	
Tax Map #:	

Please provide all of the information requested in this application.

Read the Zoning Regulations and familiarize yourself with the requirements. Failure to provide all the required information will delay the process of this application. Based upon the nature of the project you may need to submit additional information. For instructions on how to fill out this form please refer to the Zoning Permit Application Instructions & Fee Schedule available on the municipal website or at the municipal offices. Submit one copy of the completed application and a

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please contact the Zoning Administrato	or at 802-244-1018.	
CONTACT INFORMATION APPLICANT	PPO	PERTY OWNER (if different from Applicant)
Name: Mailing Address:		ing Address:
Home Phone :	Hom	e Phone :
Work/Cell Phone:	Work	x/Cell Phone:
Email:	Emai	il:
PROJECT DESCRIPTION		CHECK ALL THAT APPLY:
Physical location of project (E911 addre	ess):	□ Single-Family Dwelling
Lot size: Zoning Distri	ict:	□ Two-Family Dwelling ■ Multi-Family Dwelling
Existing Use: <u>Vacant Land</u> Pro	+	
Brief description of project:		D 11 11 D 111 1 1111
Erici description of project.		□ Comm./ Industrial Building Addition
		□ Accessory Apartment
		======================================
Cost of project: \$ Estimated start date: Water system: Waste water system:		repairs and renovation)
EXISITING	PROPOSED	USE
Square footage: Height:	Square footage:H	
Number of bedrooms/baths:	Number of bedrooms/bath	: □ Change existing use
# of parking spaces:	□ Expand existing use	
Setbacks: front:	☐ Establish home occupation ☐ OTHER	
sides:/rear:		OTTER
ADDITIONAL MUNICIPAL I		□ Boundary Line Adjustment (BLA)
	·	₽ Planned Unit Development (PUD)
☐ Curb Cut / Access permit ☐ E911 A ☐ Water & Sewer Allocation ☐ none		⊅ Parking Lot
	rmits may also be required	□ Soil/sand/gravel/mineral extraction
Data avantadi Oat Nov 2012 / Pavisadi July 2010	,	□ Other

larger than 11"x17" please provide a digital copy (pdf. file format) in addition to a paper copy.

SKETCH PLAN	Please include a sketch of your project, drawn to scale, with all required measurements - see Zoning
	Permit Application Instructions. You may use the space below or attach separate sheets. For plans

SIGNATURES The undersigned hereby applies for a Zoning Permit for the use described in this application to be issued on the basis of the representations made herein all of which the applicant swears to be complete and true. 12/29/22 date Applicant Signature 12/29/22 date **Property Owner Signature** Zoning Administrator Phone: (802) 244-1018 CONTACT Mailing Address: Waterbury Municipal Offices, 28 North Main Street, Suite 1, Waterbury, VT 05676 Municipal Website: www.waterburyvt.com OFFICE USE ONLY Zoning District/Overlay: TE 100 / C N 5

Review type:

Administrative XDRB Public Warning Required: Yes

No **REVIEW/APPLICATIONS:** ★ Conditional Use □ Waiver Site Plan DRB Referral Issued (effective 15-days later): 1/25/23 □ Variance DRB Mtg Date: 2/15/23 Decision Date: Subdivision: □ Subdv. □ BLA ¥PUD Date Permit issued (effective 16-days later):_____ Overlay: Final Plat due (for Subdivision only):_____ DDR SFHARRHS CMP □ Sign Remarks & Conditions: □ Other ____ □ n/a Date:____ Authorized signature: ___

TOWN OF WATERBURY CONDITIONAL USE INFORMATION

Date:	Application #:
Fees Paid:	(\$15 recording fee already paid)
Parcel ID #:	
Tax Map #:	

This Conditional Use (and Setback Waiver) information sheet supplements the Zoning Permit application. Please provide all of

the information requested on each form. Read the Zoning Regulations and familiarize yourself with the requirements. Failure to provide all the required information will delay the process. Submit one copy of the completed forms and a check pay-

	e to the <i>Town of Waterbury</i> according to the zoning fee schedule. For questions about the permit process, please contact Zoning Administrator at 802-244-1018.
	ROJECT DESCRIPTION
Br	lef description of project:
_S _n	Develop 50.2 bedroom, 2 bath apartments within 10 buildings each containing 4 to 6 dwelling units. Super insulated & energy efficient construction. Conserve 50% of the property (vacant land) as a park & atural area for public enjoyment.
-	ONDITIONAL USE CRITERIA
Ple	ase respond to the following; you may answer on a separate sheet and attach additional pages and supporting materials:
1.	Describe how the proposed use will not have an undue adverse impact on the capacity of existing or planned community facilities to accommodate it (including roads and highways, municipal water or sewer systems, school system, fire protection services):
	** See attached document for all responses.
2.	Describe how the proposed use will not have an undue adverse impact on the character of the area affected as defined by the Municipal Plan and the zoning district in which the proposed project is located:
3.	Describe how the proposed use will not violate any municipal bylaws and ordinances in effect:
4.	Describe any devices or methods to prevent or control fumes, gas, dust, smoke, odor, noise, or vibration:
5.	For removal of earth or mineral products which is not incidental to a construction, landscaping, or agricultural operation, a removal project must meet specific conditions outlined within Section 302 of the Waterbury Zoning Regulations. Are the conditions included within the Application Submittals?

CONTACT Zoning Administrator Phone: (802) 244-1018

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Municipal Website: www.waterburyvt.com

TOWN OF WATER	BURY		
SUBDIVISION	INFORMATION (BLA &	PUD

Date:	Application #:
Fees Paid:	+\$25 Plat (\$15 recording fee already paid)
Parcel ID #:	
Tax Map #:	

This Subdivision/Boundary-Line Adjustment/Planned-Unit Development information sheet supplements the Zoning Permit Application. Please provide all of the information requested on both forms. Read the Zoning Regulations and familiarize yourself with the requirements. Failure to provide all the required information will delay the process. Submit one copy of the completed forms and a check payable to the *Town of Waterbury* according to the zoning fee schedule. For questions about the permit process please contact the Zoning Administrator at 802-244-1018.

about the permit process please conta	ct the Zoning Administrator at 802-244-1018.
PROJECT DESCRIPTION	Develop 50 2 bedroom, 2 bath apartments within 10 buildings each
Brief description of project:	containing 4 to 6 dwelling units. Super insulated & energy efficient construction. Conserve 50% of the property (vacant land) as a park &
	natural area for public enjoyment.
See attached for Site Plan + Nar SUBDIVISION & BOUNDA	rative Description / Supporting Information. ARY LINE ADJUSTEMENT (BLA) CHECKLIST
Please utilize the following check list t	to ensure your application contains all the required information.
Check one (A1, A2, B1, or B2):	
A1) 🗆 Boundary Line Adjustment	t which affects fewer than five (5) lots
	ver than four (4) lots, including the original parcel and not located within the RT 100 Hillside/ Steep Slope Overlay District
REVIEW CRITERIA for A pro	jects
□ Relevant criteria in	Section 401, Dimensional Requirements
□ Section 504, Gener	al Dimension, Location, and Height Requirements
B1) 🗆 Boundary Line Adjustment	which affects five (5) or more lots
B2) □ Division of land into four (a District or the Ridgeline/Hillside/S	4) lots or more, including the original parcel and/or located within the RT 100 Zoning Steep Slope (RHS) Overlay District
REVIEW CRITERIA for B pro	jects (See Section 1202 review criteria)
□ Relevant criteria in	Section 401, Dimensional Requirements
□ Section 504, Gener	al Dimension, Location, and Height Requirements
□ Will not have undu	e adverse impact on existing or planned municipal facilities
□ Will not have undu	e adverse impact on the character of the area
□ Will not have undu	e adverse impact on water quality or impacts to soil
□ Will not have undu	e adverse impact on scenic resources or historic sites
□ Will not have undu	e adverse impact on significant natural resources
□ For the division of l	and in the RT 100 Zoning District see Section 1202(b) for additional criteria
□ For the division of	and in the RHS Overlay District see Section 1202(c) for additional criteria

SUBMISSION REQUIREMENTS (for both A and B projects)

Draft plat / site plan map, of sufficient scale, showing the following:

- Existing and proposed parcel boundaries
- □ Existing and proposed parcel acreages
- □ Existing and proposed structures and setbacks
- Existing and proposed easements (incl. but not limited to right-of-ways, power, water + sewer, other utilities)

PLANNED UNIT DEVELOPMENT CHECKLIST (PUD)

Please utilize the following check list to ensure your application contains all the required information.

SUBMISSION REQUIREMENTS

- A) SITE PLAN: Submit one or more site plan maps, of sufficient scale, showing the following:
 - □ The name and address of the person or firm preparing the map, the scale, and the north arrow
 - The boundaries of the property, and adjacent land uses and property owners
 - Existing features, including contours, bodies of water, floodplains, wetlands, aquifer protection areas, existing vegetation, significant wildlife habitat, existing land uses, structures, historic structures, streets, utilities, easements, and deed restrictions
 - The locations of proposed structures, building lots, land uses, streets, driveways, parking and loading spaces, pedestrian walkways, utility lines, lighting, water supply sources, and sewage disposal areas
 - □ The location and features of proposed undeveloped land
 - Landscaping plans, screening, proposed site grading, and incorporation of existing vegetation and features
 - □ Submit 2 copies, if the plan(s) are larger than 11"x17" also provide a digital copy in pdf. file format.

B) NARRATIVE DESCRIPTION & SUPPORTING INFORMATION:

A statement describing the character and proposed uses of the undeveloped land, including the nature of proposed public uses.
A statement on the impact of the development on public roads and other public infrastructure such as schools, sew systems, or public water systems, if appropriate.
Articles of association, bylaws, or declarations of condominium that relate to provisions for undeveloped land, design controls, land use restrictions, recreation, parking areas, or other facilities used, owned, or maintained in common.
A description of how the project meets each of the standards in Section 705, including justification for any density bonuses that are requested.
PUDs that include nonresidential uses or structures must also apply for site plan approval for the nonresidential portions of the project. Please include a Site Plan Application.
PUDs that included uses that are conditional in the district for which they are proposed must also apply for and ob tain conditional use approval for those uses. Please include a Conditional Use Application.
Submit 2 paper copies and a digital copy in pdf. file format.

CONTACT

Zoning Administrator Phone: (802) 244-1018

Mailing Address: Waterbury Municipal Offices, 28 North Main Street, Suite 1, Waterbury, VT 05676

Municipal Website: www.waterburyvt.com

Conditional Use Application Questions + Responses 12/29/22 Lot 100-5575

- 1.) Describe how the proposed use will not have an undue adverse impact on the capacity of existing or planned community facilities to accommodate it (including roads and highways, municipal water or sewer systems, school system, fire pro- tection services):
 - a.) School System
 - i.) Spacious turnarounds are provided for school buses. School bus routes
 potentially will become more efficient due to a single pickup point for
 multiple students.
 - ii.) Design input and approval from the Waterbury Superintendent of Schools to be incorporated after the new year.
 - b.) Fire Protection
 - i.) Spacious turnarounds are provided for fire trucks. A 1 way circulation pattern also enhances ease of circulation. Each upstairs unit will be served by a private, fire-rated entry and set of stairs. Downstairs units will have egress directly to ground level.
 - ii.) Design input and approval from the Waterbury Fire Department to be incorporated after the new year.
 - c.) Roads and Highways
 - i.) A State permit is required for a pull off on Rt. 100. The design team will work with the State to ensure adequate pull offs will be provided to facilitate safety and prevent any potential congestion.
 - d.) Municipal water or sewer systems
 - i.) The Project will not use municipal water or sewer systems, both will be private on site.
- 2.) Describe how the proposed use will not have an undue adverse impact on the character of the area affected as defined by the Municipal Plan and the zoning district in which the proposed project is located:
 - a.) Project Goals
 - i.) Character of the Community: Pragmatic, efficient buildings that sip energy and provide excellent quality of life with tall ceilings and abundant natural lighting.
 - ii.) Minimize environmental impact, preserve open & natural space, and ensure greater efficiency in infrastructure.
 - b.) Compressed Site Plan + Limited Building Size
 - i.) The site plan has been compressed as feasible to create clusters of modestly sized buildings (48' x 48' footprints) that protect a sense of open space & connection with nature.
 - ii.) Modern and energy efficient new buildings will complement & enhance the architectural aesthetics of the surrounding area while increasing surrounding property values.

- iii.) The site plan seeks to maintain the rural and scenic beauty of the area.

 As many existing trees as possible on the site have been kept. Residents will have nature literally out their back door.
- c.) 50% of land to be conserved as public space
 - i.) Over 50% of the property will be conserved as a public park supporting access to nature through forested walking trails.
- 3.) Describe how the proposed use will not violate any municipal bylaws and ordinances in effect:
 - a.) A thorough vetting of the Waterbury Zoning Regulations has been completed for compliance and support of town-wide goals. No bylaws or ordinances have been violated.
- 4.) Describe any devices or methods to prevent or control fumes, gas, dust, smoke, odor, noise, or vibration:
 - a.) All on site energy use will be electric. Super-insulated walls provided excellent acoustic isolation. No other sources of smoke, odor, fumes, or gas exist on site.
- 5.) For removal of earth or mineral products which is not incidental to a construction, landscaping, or agricultural opera- tion, a removal project must meet specific conditions outlined within Section 302 of the Waterbury Zoning Regulations. Are the conditions included within the Application Submittals?
 - a.) No removal of earth or mineral products is planned at this time.

PUD Application Questions + Responses 12/29/22 Lot 100-5575

- 1.) A statement describing the character and proposed uses of the undeveloped land, including the nature of proposed public uses.
 - a.) The comprehensive property is primarily forested with open fields on the eastern half towards Rt. 100. A large wetland runs through the center from North to South. The western half which is all forested will be conserved as undeveloped land. Walking trails will serve the public and on-site residents as a place to unwind, relax, and connect with nature.
- 2.) A statement on the impact of the development on public roads and other public infrastructure such as schools, sewer systems, or public water systems, if appropriate.
 - a.) School System
 - i.) Spacious turnarounds are provided for school buses. School bus routes
 potentially will become more efficient due to a single pickup point for
 multiple students.
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 - c.) Roads and Highways
 - i.) A State permit is required for a pull off on Rt. 100. The design team will work with the State to ensure adequate pull offs will be provided to facilitate safety and prevent any potential congestion.
 - d.) Municipal water or sewer systems
 - i.) The Project will not use municipal water or sewer systems, both will be private on site.
- 3.) Articles of association, bylaws, or declarations of condominium that relate to provisions for undeveloped land, de- sign controls, land use restrictions, recreation, parking areas, or other facilities used, owned, or maintained in common.
 - a.) All properties are to be maintained under single ownership and no homeowner's association or similar entity is planned. Parking areas will be provided for the public to access the undeveloped / conserved land.
- 4.) A description of how the project meets each of the standards in Section 705 (PUD), including justification for any density bonuses that are requested. Standards:
 - a.) The project must conform to the density and dimensional requirements set forth in Section 702.
 - i.) Lot Area

- (1) min = 5 acres
- (2) planned = ~10 acres (after relinquishing 10+ acres as protected, undeveloped space)
- ii.) Road Frontage
 - (1) min = 400'
 - (2) planned = ~1133' on Rt. 100
 - (3) section 301 (h) Site Plan Review and Approval
 - (a) min: 25% frontage on Rt. 100, 250' deep to be undeveloped
 - (b) planned: 25.4%
- iii.) Building Height
 - (1) max = 35' & 2 stories
 - (2) planned = 21.5' & 2 stories
- iv.) Coverage
 - (1) max = 10% for any lot, excluding undeveloped land, created in a planned unit development (PUD)
 - (2) planned = 5.3%
 - (a) 10 acres = 435600 ft2
 - (b) buildings = 48*48*10 = 23040 ft2
 - (c) 23040 / 435600 = 5.3%
- v.) Setbacks
 - (1) Minimum:
 - (a) front: 100'
 - (b) side: 50'
 - (c) back: 50'
 - (2) Planned:
 - (a) front: 100'
 - (b) side: 50'+
 - (c) back: 50'+
 - (3) Section 702 PUD Permitted Densities
 - (a) We request a setback reduction (200' to 100' along Rt. 100) to provide practical building sites. When a 200' setback is applied along Rt. 100, few to zero practical building sites exist in the front / Eastern half of the property (in front of the wetland).
 - (b) A wetland separates the "back" from the "front" of the property (front is the Rt. 100 or Eastern side).
 - (c) 50% of PUD is required to be kept as undeveloped land.
 - (d) Keeping the back of the property, rather than the front, as undeveloped land we currently understand to be in the best interest of all stakeholders (Citizens of Waterbury, Conservation Commission & Wild Life, Applicants). That said we are still seeking input from the Conservation

Commission and Shutesville Hill Wildlife Corridor Partnership.

- vi.) Dwelling unit density per building
 - (1) max: 6
 - (2) planned: 4 to 6
- vii.) Dwelling unit density per acre
 - (1) max: 2.5 per acre (2 per acre with 25% bonus available as PUD)
 - (2) planned: 2.5 per acre
 - (a) 50 units / 20.8 acres = 2.4
- b.) A residential density increase of up to 25 percent may be permitted only if the Development Review Board finds that such increase:
 - i.) (1) Will not have an undue adverse impact on the capacity of community facilities and services;
 - (1) See other sections.
 - (2) Will not have an undue adverse impact on the character of the area as defined by the Municipal Plan and the zoning district in which the use is located; and
 - (1) See other sections.
 - iii.) (3) Is compensated for by substantial efforts to provide one or more of the following: the provision of low- and moderate-income housing; preservation of agricultural land; or the provision of publicly accessible park or recreation land.
 - (1) A publicly accessible park with parking & walking trails through the forest is to be established as recreational land.
- c.) The project is an effective and unified treatment of the development possibilities of the site and makes appropriate provision for preservation of streams and stream banks, steep slopes, wetlands, soils unsuitable for development, agricultural and open lands, unique natural and man-made features, watersheds, wildlife habitat, floodplains, and scenic features.
 - i.) Clustered development ensures the preservation of all natural features including the large wetland in the center of the property. Unique natural features to be preserved are predominantly mature deciduous trees. No notable man-made features exist to be preserved. No floodplain exists. Preserving wildlife habitat and passage is the primary goal of the clustered building sites, as the parcel sits within the Shutesville Hill Wildlife corridor where bears, deer, and other species have the ability to move between major habitat districts.
- d.) Phasing of the development shall be scheduled or phased to ensure that adequate municipal facilities and services will be provided. In the event it is determined that the project will unduly burden municipal facilities or services, the municipality may require contributions to cover costs or dedication of land or interests in land for the purpose of providing or contributing toward the provision of necessary facilities or services.

- i.) Phasing of the project will be roughly 50% built in year 1 and 50% in year 2.
- e.) If a project is to be served by a public water supply or a public sewer system, a letter from the appropriate municipal department shall be submitted to the Development Review Board certifying that such services can be provided to all habitable units before occupancy.
 - i.) All water and sewer is private.
- f.) If a project is not served by a public water supply system and a public sewer system, approval of the water supply and sewage disposal systems by all state authorities shall be required.
 - i.) Thomas Wawrzeniak is in active communication with State authorities on both the water & sewer systems. At least 1 sewer & water plan has received initial approval. These initial and final approvals will be provided promptly.
- g.) The proposed PUD shall not unduly burden the school system. The applicant may be required to obtain a letter from the Superintendent of Schools regarding the impact of the project on the school system.
 - i.) A letter from the Superintendent of Schools is to be obtained upon reopening of the schools in the new year.
- h.) The proposed PUD shall not unduly burden municipal roads, including intersections and access roads immediately burdened by the project.
 - i.) No municipal roads are involved in the project.
- i.) Development access roads shall be of a width, surface, and design adequate for handling proposed traffic, including accessibility for emergency vehicles, school buses, and public transit, if appropriate.
 - i.) Please see site design for details. Large turnarounds have been provided for school buses and fire trucks. All roads and parking conform to common conventions. Parking spaces are 9'x18' or larger.
- j.) Adequate pedestrian circulation, which may include sidewalks, maintained trails, or other pathways, shall be provided.
 - i.) Each building includes sidewalks around the perimeter that serve the entry. Ample open space in fields has been provided for recreation. The forest trails and conserved / undeveloped land will also create opportunities for enjoying nature & the outdoors.
- k.) Adequate landscaping and screening of both buildings and parking areas shall be required in order to protect scenic vistas and the site's natural aesthetic features.
 - i.) As many existing deciduous trees as possible have been maintained.

 Additional landscaping, plantings, and screening have been depicted on the site plan.
- 1.) The proposed PUD must be consistent with the Municipal Plan.
 - i.) The site plan and all decisions have been made in accordance with the intentions and goals of the municipal plan.
 - ii.) Specific Goals of the Municipal Plan + Responses

- (1) "Achieve continued availability of housing for existing and new residents in a manner respectful of natural resources;"
 - (a) The Future Housing Distribution + Growth Centers Map (published in 2013, see footnotes) calls for the addition of 250-334 dwelling units within Waterbury looking forward 10 years (2013-2023). Housing applications slowed to 10 new dwelling units per year between 2010-2012 (the last available data point on this topic). Assuming no rapid acceleration has since taken place, the approval of 50 additional units will help close in on this goal and provide much needed housing. There is a well known housing shortage in Vermont in general and this is a top priority of our State Government. The Housing Distribution Map & 10 Year Plan calls for 20-27 units in the Rt. 100 Corridor while aiming for 90-120 in the Rural Residential district, which likely is under permitted now in 2022 based on these goals. Residences situated along this northernmost section of Rt. 100 will likely serve those commuting to the North well by shortening commute times. It will also serve the growing population of people that are working from home and/or striving to live active outdoor lifestyles which involve traveling to "playgrounds" such as ski resorts and mountain bike trail networks. In this respect the location is ideal.
- (2) "Cultivate a vibrant economic climate that achieves sustainable economic growth in Waterbury"
 - (a) Supporting the goals and needs of work-from-home employees and active outdoor enthusiasts with long-term, high quality, and high value housing helps Waterbury achieve this goal.
- (3) "When considering further development of the Route 100 corridor north of Colbyville, traffic congestion should be a primary concern"
 - (a) Any potential traffic congestion caused by the Rt. 100 curb cut design can be avoided with proper design, including the possibility of lane creation, and the fact that no other significant sources of merging traffic (such as popular businesses like Cold Hollow Cider Mill) are in the immediate vicinity.
- m.) Land that is not included in building lots, streets, rights-of-way, or utility easements shall be reserved as undeveloped land for recreation, conservation, agriculture, and the enhancement of the natural environment for living. Such undeveloped land shall not be less than 50 percent of the total project area. Further, the undeveloped land shall:

- i.) (1) Take the fullest advantage of all natural features, such as natural watercourses and drainages, topography, existing trees, outlook, agricultural land, forests, and other features;
 - (1) All features have been considered. Please see the site plan.
- ii.) (2) Be in a location, and of a character, size, extent, and shape suitable for the land's intended use;
 - (1) The location and character of the conserved land complement the residential use of the property.
- iii.) (3) Contain no building or development, except one primarily devoted to a purpose for which the undeveloped land is intended, including swimming pool, tennis courts, and similar recreational facilities, and minor incidental buildings connected therewith; and
 - (1) No additional building or development unrelated to the preserved land is planned other than parking.
- iv.) (4) Be conveyed to a 3rd Party
 - (1) Our intention is to convey the preserved land to either the municipality directly or the Waterbury Conservation Commission. Details are still being worked out.
- 5.) PUDs that include nonresidential uses or structures must also apply for site plan approval for the nonresidential portions of the project. Please include a Site Plan Application.
 - a.) No nonresidential uses or structures are planned at this time.
- 6.) PUDs that included uses that are conditional in the district for which they are proposed must also apply for and ob- tain conditional use approval for those uses. Please include a Conditional Use Application.
 - a.) Conditional Use Application is duly submitted.

Conditional Use Application Questions + Responses Lot 100-5575

- 1.) Describe how the proposed use will not have an undue adverse impact on the capacity of existing or planned community facilities to accommodate it (including roads and highways, municipal water or sewer systems, school system, fire pro- tection services):
 - a.) School System
 - Spacious turnarounds are provided for school buses. School bus routes
 potentially will become more efficient due to a single pickup point for
 multiple students.
 - ii.) Design input and approval from the Waterbury Superintendent of Schools to be incorporated soon.
 - b.) Fire Protection
 - i.) Spacious turnarounds are provided for fire trucks. A 1 way circulation pattern also enhances ease of circulation. Each upstairs unit will be served by a private, fire-rated entry and set of stairs. Downstairs units will have egress directly to ground level.
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 - c.) Roads and Highways
 - i.) A State permit is required for a pull off on Rt. 100. The design team will work with the State to ensure adequate pull offs will be provided to facilitate safety and prevent any potential congestion.
 - d.) Municipal water or sewer systems
 - i.) The Project will not use municipal water or sewer systems, both will be private on site.
- 2.) Describe how the proposed use will not have an undue adverse impact on the character of the area affected as defined by the Municipal Plan and the zoning district in which the proposed project is located:
 - a.) Project Goals
 - i.) Character of the Community: Pragmatic, efficient buildings that sip energy and provide excellent quality of life with tall ceilings and abundant natural lighting.
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 - b.) Compressed Site Plan + Limited Building Size
 - i.) The site plan has been compressed as feasible to create clusters of buildings that protect a sense of open space & connection with nature.
 - ii.) Modern and energy efficient new buildings will complement & enhance the architectural aesthetics of the surrounding area while increasing surrounding property values.

- iii.) The site plan seeks to maintain the rural and scenic beauty of the area.

 As many existing trees as possible on the site have been kept. Residents will have nature literally out their back door.
- c.) 50% of land to be conserved as public space
 - i.) Over 50% of the property will be conserved as a public park supporting access to nature through forested walking trails.
- 3.) Describe how the proposed use will not violate any municipal bylaws and ordinances in effect:
 - a.) A thorough vetting of the Waterbury Zoning Regulations has been completed for compliance and support of town-wide goals. No bylaws or ordinances have been violated.
- 4.) Describe any devices or methods to prevent or control fumes, gas, dust, smoke, odor, noise, or vibration:
 - a.) All on site energy use will be electric. Super-insulated walls provided excellent acoustic isolation. No other sources of smoke, odor, fumes, or gas exist on site.
- 5.) For removal of earth or mineral products which is not incidental to a construction, landscaping, or agricultural operation, a removal project must meet specific conditions outlined within Section 302 of the Waterbury Zoning Regulations. Are the conditions included within the Application Submittals?
 - a.) No removal of earth or mineral products is planned at this time.

PUD Application Questions + Responses Lot 100-5575

- 1.) A statement describing the character and proposed uses of the undeveloped land, including the nature of proposed public uses.
 - a.) The comprehensive property is primarily forested with open fields on the eastern half towards Rt. 100. A large wetland runs through the center from North to South. The western half which is all forested will be conserved as undeveloped land. Walking trails will serve the public and on-site residents as a place to unwind, relax, and connect with nature.
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 - i.) The Project will not use municipal water or sewer systems, both will be private on site.
- 3.) Articles of association, bylaws, or declarations of condominium that relate to provisions for undeveloped land, de- sign controls, land use restrictions, recreation, parking areas, or other facilities used, owned, or maintained in common.
 - a.) All properties are to be maintained under single ownership and no homeowner's association or similar entity is planned. Parking areas will be provided for the public to access the undeveloped / conserved land.
- 4.) A description of how the project meets each of the standards in Section 705 (PUD), including justification for any density bonuses that are requested. Standards:
 - a.) The project must conform to the density and dimensional requirements set forth in Section 702.
 - i.) Lot Area
 - (1) min = 5 acres

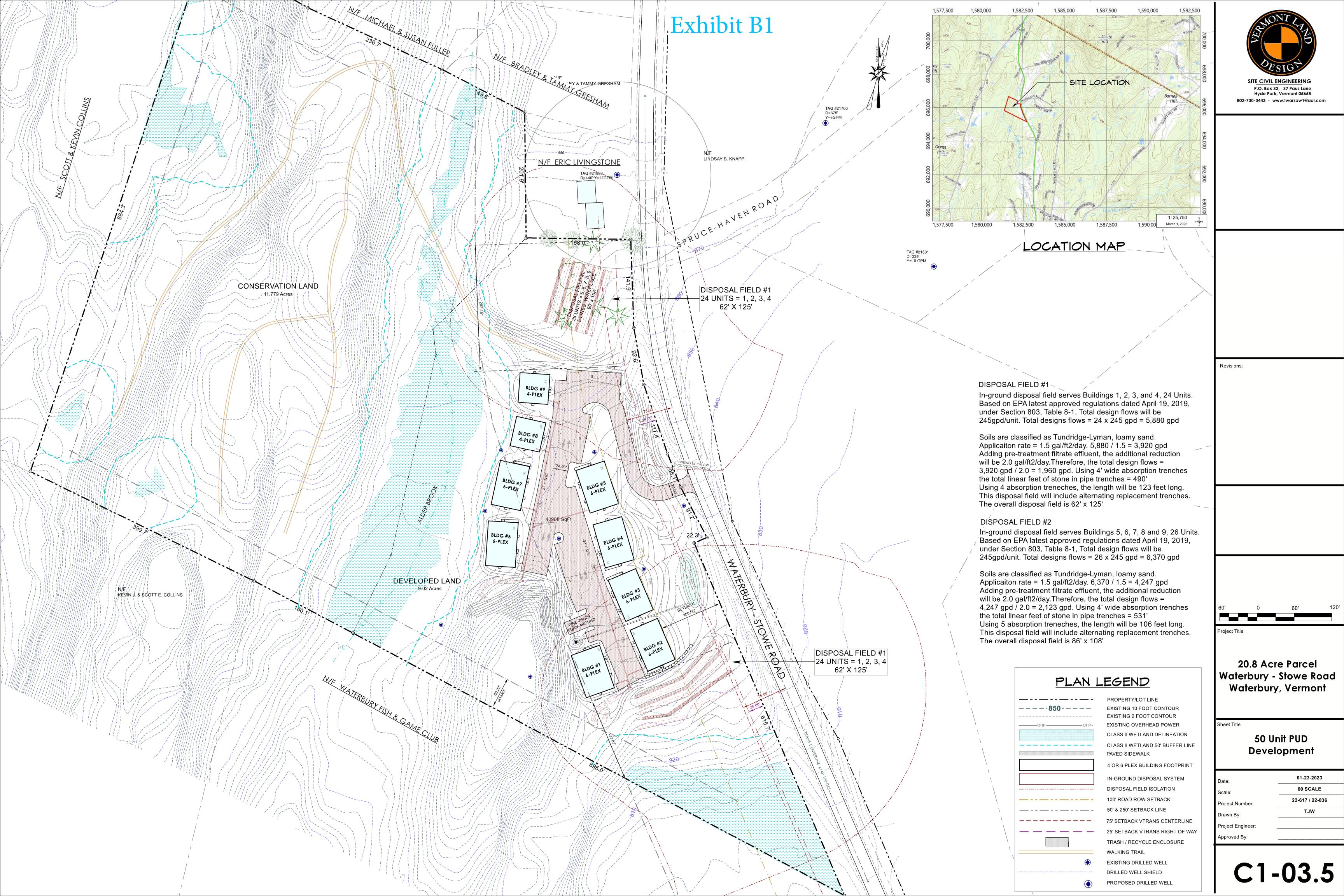
- (2) planned = ~10 acres (after relinquishing 10+ acres as protected, undeveloped space)
- ii.) Road Frontage
 - (1) min = 400'
 - (2) planned = 1116.9" on Rt. 100
 - (3) section 301 (h) Site Plan Review and Approval
 - (a) min: 25% frontage on Rt. 100, 250' deep to be undeveloped
 - (b) planned: 30% (336')
- iii.) Building Height
 - (1) max = 35' & 2 stories
 - (2) planned = 21.5' & 2 stories
- iv.) Coverage
 - (1) max = 10% for any lot, excluding undeveloped land, created in a planned unit development (PUD)
 - (2) planned = 5.3%
 - (a) 10 acres = 435600 ft2
 - (b) buildings = 48*48*2+72*48*7 = 28800 ft2
 - (c) 28800 / 435600 = 6.6%
- v.) Setbacks
 - (1) Minimum:
 - (a) front: 100'
 - (b) side: 50'
 - (c) back: 50'
 - (2) Planned:
 - (a) front: 100'
 - (b) side: 50'+
 - (c) back: 50'+
 - (3) Section 702 PUD Permitted Densities
 - (a) We request a setback reduction (200' to 100' along Rt. 100) to provide practical building sites. When a 200' setback is applied along Rt. 100, few to zero practical building sites exist in the front / Eastern half of the property (in front of the wetland).
 - (b) A wetland separates the "back" from the "front" of the property (front is the Rt. 100 or Eastern side).
 - (c) 50% of PUD is required to be kept as undeveloped land.
 - (d) Keeping the back of the property, rather than the front, as undeveloped land we currently understand to be in the best interest of all stakeholders (Citizens of Waterbury, Conservation Commission & Wild Life, Shutesville Hill Wildlife Corridor Partnership, Applicants).
- vi.) Dwelling unit density per building
 - (1) max: 6

- (2) planned: 4 to 6
- vii.) Dwelling unit density per acre
 - (1) max: 2.5 per acre (2 per acre with 25% bonus available as PUD)
 - (2) planned: 2.5 per acre
 - (a) 50 units / 20.8 acres = 2.4
- b.) A residential density increase of up to 25 percent may be permitted only if the Development Review Board finds that such increase:
 - i.) (1) Will not have an undue adverse impact on the capacity of community facilities and services:
 - (1) See other sections.
 - (2) Will not have an undue adverse impact on the character of the area as defined by the Municipal Plan and the zoning district in which the use is located; and
 - See other sections.
 - (3) Is compensated for by substantial efforts to provide one or more of the following: the provision of low- and moderate-income housing; preservation of agricultural land; or the provision of publicly accessible park or recreation land.
 - (1) A publicly accessible park with parking & walking trails through the forest is to be established as recreational land.
- c.) The project is an effective and unified treatment of the development possibilities of the site and makes appropriate provision for preservation of streams and stream banks, steep slopes, wetlands, soils unsuitable for development, agricultural and open lands, unique natural and man-made features, watersheds, wildlife habitat, floodplains, and scenic features.
 - i.) Clustered development ensures the preservation of all natural features including the large wetland in the center of the property. Unique natural features to be preserved are predominantly mature deciduous trees. No notable man-made features exist to be preserved. No floodplain exists. Preserving wildlife habitat and passage is the primary goal of the clustered building sites, as the parcel sits within the Shutesville Hill Wildlife corridor where bears, deer, and other species have the ability to move between major habitat districts. 57.6% of the Rt. 100 road frontage is completely clear and open to wildlife passage (taking perpendicular lines into the property and avoiding all buildings). Over 100' of space is available for the wildlife to move in for the remaining 42.4% of the frontage (before any buildings or parking). The 57.6% is 644.45' in length with 202.45' in the north of the property and 442' in the south.
- d.) Phasing of the development shall be scheduled or phased to ensure that adequate municipal facilities and services will be provided. In the event it is determined that the project will unduly burden municipal facilities or services, the municipality may require contributions to cover costs or dedication of land or interests in land for the purpose of providing or contributing toward the provision of necessary facilities or services.

- i.) Phasing of the project will be roughly 50% built in year 1 and 50% in year 2.
- e.) If a project is to be served by a public water supply or a public sewer system, a letter from the appropriate municipal department shall be submitted to the Development Review Board certifying that such services can be provided to all habitable units before occupancy.
 - i.) All water and sewer is private.
- f.) If a project is not served by a public water supply system and a public sewer system, approval of the water supply and sewage disposal systems by all state authorities shall be required.
 - i.) Thomas Wawrzeniak is in active communication with State authorities on both the water & sewer systems. At least 1 sewer & water plan has received initial approval. These initial and final approvals will be provided promptly.
- g.) The proposed PUD shall not unduly burden the school system. The applicant may be required to obtain a letter from the Superintendent of Schools regarding the impact of the project on the school system.
 - i.) A letter from the Superintendent of Schools will be obtained soon. Due to shrinking school enrollments providing excess capacity no chance of undue impact is anticipated.
- h.) The proposed PUD shall not unduly burden municipal roads, including intersections and access roads immediately burdened by the project.
 - i.) No municipal roads are involved in the project.
- i.) Development access roads shall be of a width, surface, and design adequate for handling proposed traffic, including accessibility for emergency vehicles, school buses, and public transit, if appropriate.
 - i.) Please see site design for details. Large turnarounds have been provided for school buses and fire trucks. All roads and parking conform to common conventions. Parking spaces are 9'x18' or larger.
- j.) Adequate pedestrian circulation, which may include sidewalks, maintained trails, or other pathways, shall be provided.
 - i.) Each building includes sidewalks around the perimeter that serve the entry. Ample open space in fields has been provided for recreation. The forest trails and conserved / undeveloped land will also create opportunities for enjoying nature & the outdoors.
- k.) Adequate landscaping and screening of both buildings and parking areas shall be required in order to protect scenic vistas and the site's natural aesthetic features.
 - i.) As many existing deciduous trees as possible have been maintained.
 Additional landscaping, plantings, and screening have been depicted on the site plan.
- I.) The proposed PUD must be consistent with the Municipal Plan.
 - i.) The site plan and all decisions have been made in accordance with the intentions and goals of the municipal plan.

- ii.) Specific Goals of the Municipal Plan + Responses
 - (1) "Achieve continued availability of housing for existing and new residents in a manner respectful of natural resources;"
 - (a) The Future Housing Distribution + Growth Centers Map (published in 2013, see footnotes) calls for the addition of 250-334 dwelling units within Waterbury looking forward 10 years (2013-2023). Housing applications slowed to 10 new dwelling units per year between 2010-2012 (the last available data point on this topic). Assuming no rapid acceleration has since taken place, the approval of 50 additional units will help close in on this goal and provide much needed housing. There is a well known housing shortage in Vermont in general and this is a top priority of our State Government. The Housing Distribution Map & 10 Year Plan calls for 20-27 units in the Rt. 100 Corridor while aiming for 90-120 in the Rural Residential district, which likely is under permitted now in 2022 based on these goals. Residences situated along this northernmost section of Rt. 100 will likely serve those commuting to the North well by shortening commute times. It will also serve the growing population of people that are working from home and/or striving to live active outdoor lifestyles which involve traveling to "playgrounds" such as ski resorts and mountain bike trail networks. In this respect the location is ideal.
 - (2) "Cultivate a vibrant economic climate that achieves sustainable economic growth in Waterbury"
 - (a) Supporting the goals and needs of work-from-home employees and active outdoor enthusiasts with long-term, high quality, and high value housing helps Waterbury achieve this goal.
 - (3) "When considering further development of the Route 100 corridor north of Colbyville, traffic congestion should be a primary concern"
 - (a) Any potential traffic congestion caused by the Rt. 100 curb cut design can be avoided with proper design, including the possibility of lane creation, and the fact that no other significant sources of merging traffic (such as popular businesses like Cold Hollow Cider Mill) are in the immediate vicinity.
- m.) Land that is not included in building lots, streets, rights-of-way, or utility easements shall be reserved as undeveloped land for recreation, conservation, agriculture, and the enhancement of the natural environment for living. Such undeveloped land shall not be less than 50 percent of the total project area. Further, the undeveloped land shall:

- i.) (1) Take the fullest advantage of all natural features, such as natural watercourses and drainages, topography, existing trees, outlook, agricultural land, forests, and other features;
 - (1) All features have been considered. Please see the site plan.
- ii.) (2) Be in a location, and of a character, size, extent, and shape suitable for the land's intended use:
 - (1) The location and character of the conserved land complement the residential use of the property.
- (3) Contain no building or development, except one primarily devoted to a purpose for which the undeveloped land is intended, including swimming pool, tennis courts, and similar recreational facilities, and minor incidental buildings connected therewith; and
 - (1) No additional building or development unrelated to the preserved land is planned other than parking.
- iv.) (4) Be conveyed to a 3rd Party
 - (1) Our intention is to convey the preserved land to either the municipality directly or the Waterbury Conservation Commission. Details are still being worked out.
- 5.) PUDs that include nonresidential uses or structures must also apply for site plan approval for the nonresidential portions of the project. Please include a Site Plan Application.
 - a.) No nonresidential uses or structures are planned at this time.
- 6.) PUDs that included uses that are conditional in the district for which they are proposed must also apply for and ob- tain conditional use approval for those uses. Please include a Conditional Use Application.
 - a.) Conditional Use Application is duly submitted.



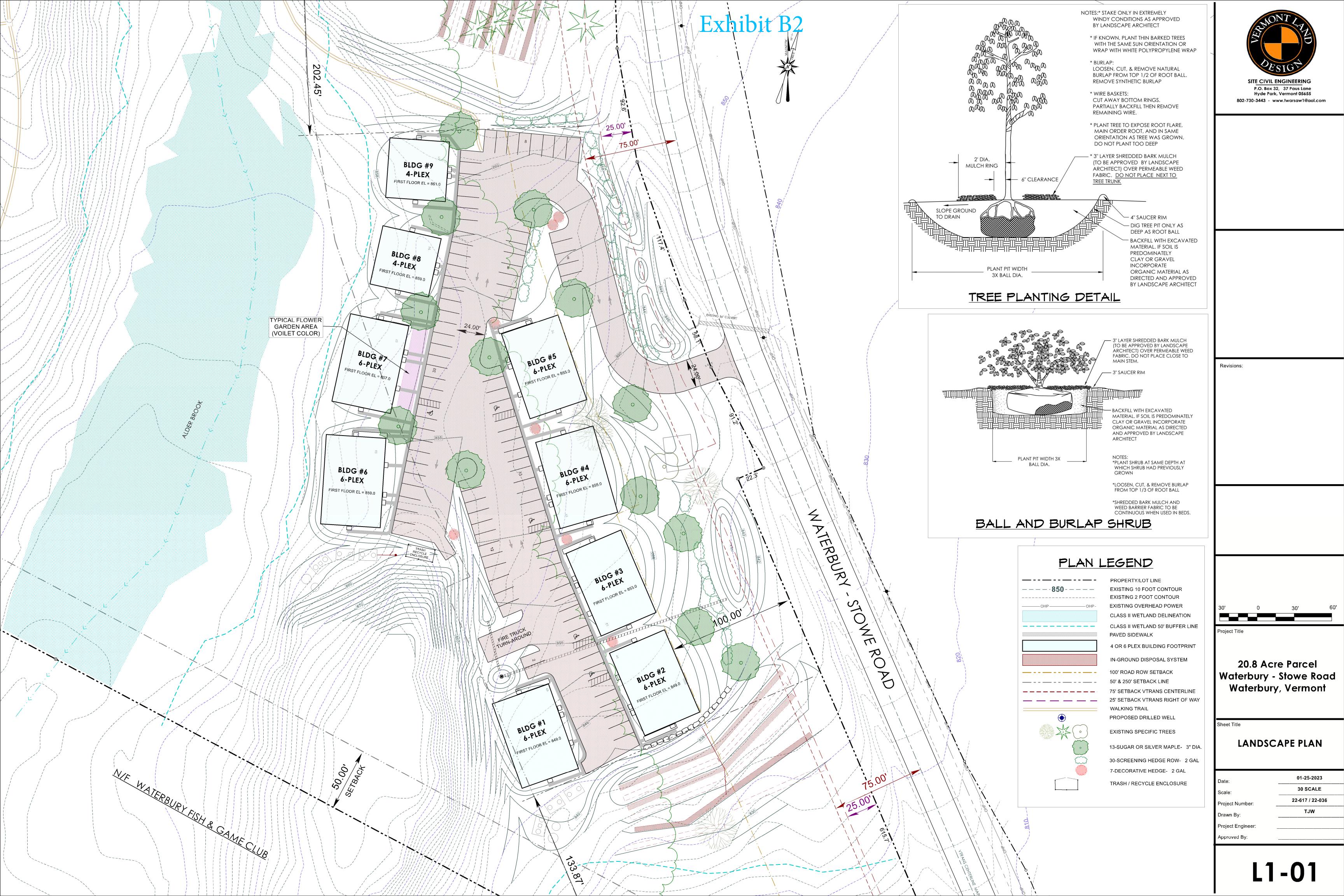
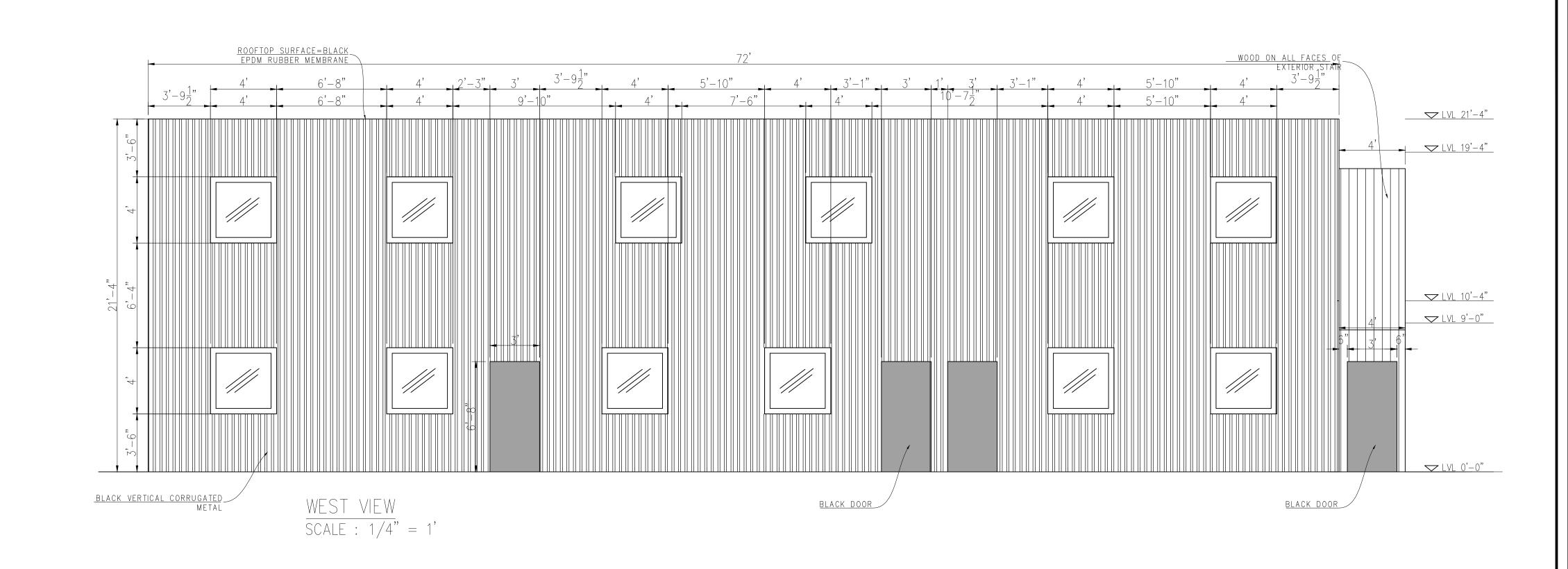
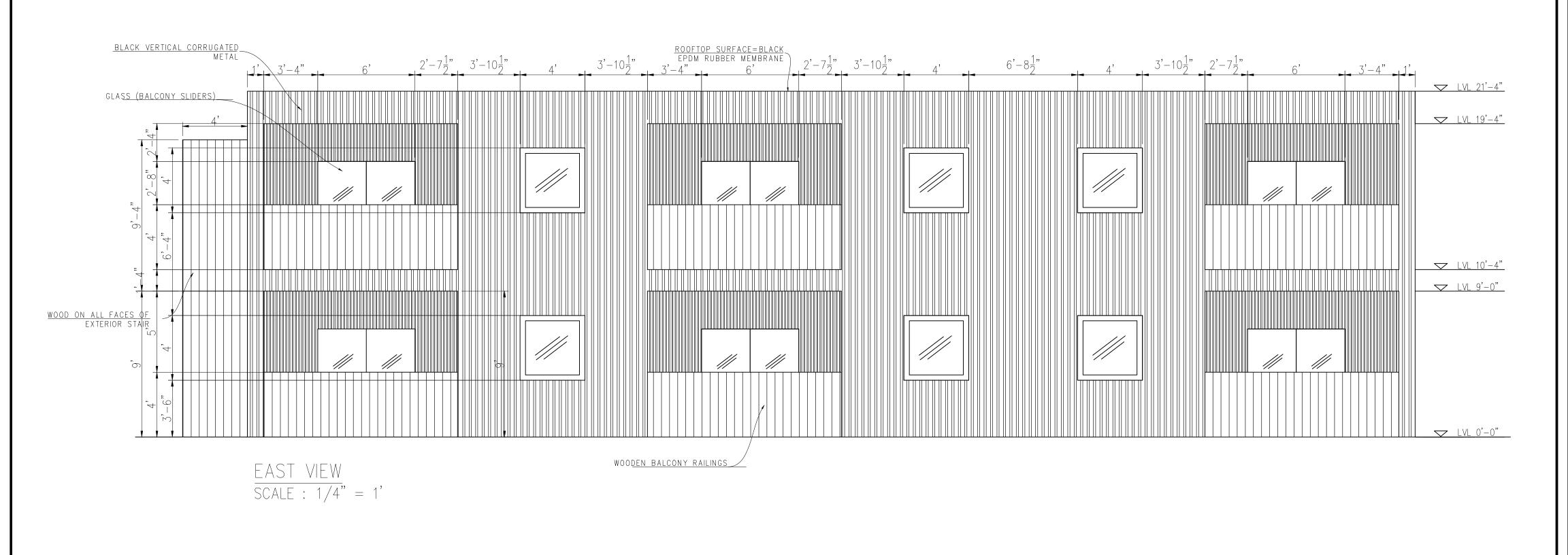




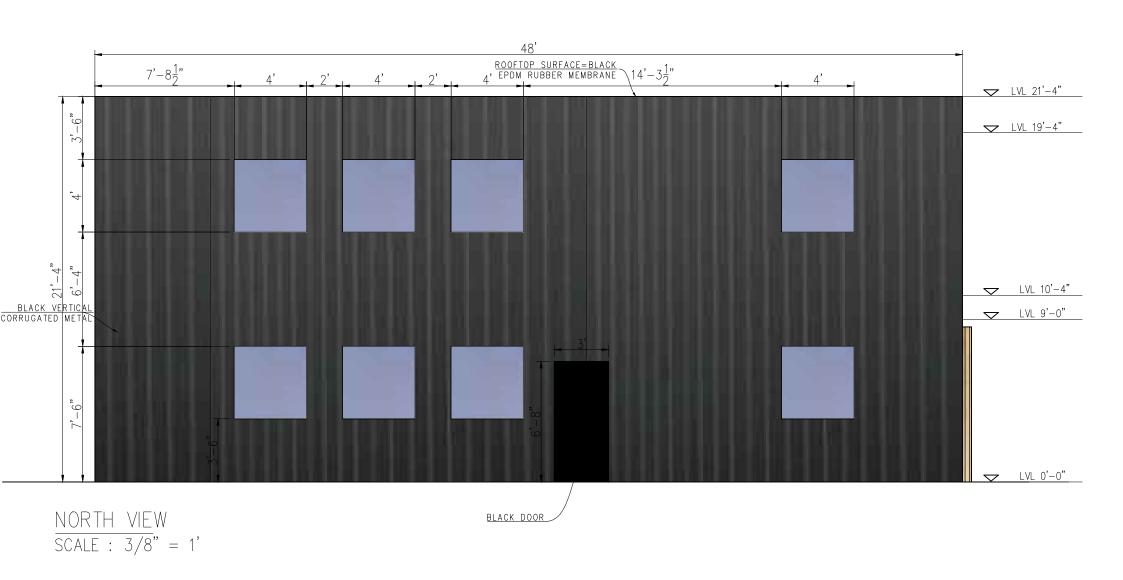
Exhibit C2





DESIGNED BY NELSON RILEY 01-08-2023 WEST AND EAST ELEVATION

	I
REF.:	P-29
SCALE:	AS SHOWN
SIZE	24x36
DRG #	A-02



DESCRIPTION

The HLB4 is a 4-inch ultra-thin LED lens downlight with remote driver / junction box suitable for new construction and remodel applications. Field selectable color temperature and high color rendering provide excellent color performance. Simplified installation in drywall or suspended ceilings eliminates recessed cans saving time and money. Installs from below the ceiling in as little as 3-1/2" plenum height, can be used in direct contact with insulation and is airtight. Use for general area lighting in low to medium height ceilings where energy savings, long life and economy are required.

Catalog #	Type
Project	
Comments	Date
Prepared by	

SPECIFICATION FEATURES

HOUSING

- Die cast aluminum mounting frame with integral flange provides passive thermal cooling achieving L70 at 50,000 hours in IC and non-IC applications
- High impact diffuse lens provides shielding to the light guide minimizing pixilation.

GASKET

 Closed cell gasket achieves restrictive airflow and wet location listing without additional gaskets or caulking

OPTICS

 Precision acrylic light guide organizes source flux into wide distribution with 1.28 spacing criteria, useful for general area illumination

LED ARRAY

- Plurality of mid power LED's provides a uniform source with high efficiency and long life
- Available in 90 CRI minimum, R9 greater than 50 and color accuracy within 4 SDCM providing color uniformity
- Field selectable color temperature, select 2700, 3000, 3500, 4000 or 5000 K CCT
- Meets ENERGY STAR® color angular uniformity requirements, deviation is less than 0.006 u' v'

REMOTE DRIVER / JUNCTION

- Aluminum driver / junction box with captive hinged junction box cover
- Listed for (6) #12 AWG 90° C splice conductors, 2-in, 2-out plus (2) ground
- (2) ½" conduit pry-outs
- (2) Slide-N-Side™ non-metallic (NM) wire traps allows wiring outside the box

- Accepts 14-2, 14-3, 12-2, 12-3 U.S. and 14-2, 14-3, 12-2 Canadian NM cable
- (3) 4-port push wire nuts with clear caps for quick and reliable mains voltage connections
- Integral keyhole mounting slots facilitate direct mounting to building structure or new construction mounting frame

DRIVER

- 120V 60 Hz constant current driver provides noise free operation
- Continuous, flicker-free dimming from 100% to 5% with select leading or trailing edge 120V phase cut dimmers
- Plenum rated inline electrical quick connect provides low voltage connection to fixture fitting

INSTALLATION

- Can be installed in 1/2" to 1-1/4" thick ceilings
- Cutout utilizes standard round hole saw sizes, cutout template provided
- Heat treated springs hold fixture fitting securely in the ceiling eliminating light leaks
- Housing is less than ½" thick and can span a 2" nominal framing member
- Can be removed from below the ceiling for service or replacement

OPTIONAL MOUNTING FRAME

- Pre-galvanized steel mounting frame locates fixture fittings during electrical rough in and provides cutout guidance for drywall contractor
- Provides tool-less attachment of remote driver / junction box

COMPLIANCE

- cULus certified type IC suitable for direct contact with air permeable insulation
- Not recommended for use in direct contact with spray foam insulation, reference NEMA LSD57-2013
- Wet location listed
- Airtight per ASTM-E283-04
- Suitable for use in clothes closets when installed in accordance with the NEC 410.16 spacing requirements
- EMI/RFI emissions per FCC 47CFR Part 15 consumer limits
- Contains no mercury or lead and RoHS compliant
- Photometric testing in accordance with IES LM-79-08
- Lumen maintenance projections in accordance with IES LM-80-08 and TM-21-11
- Can be used for State of California Title 24 high efficacy LED compliance under JA8, reference Modernized Appliance Efficiency Database System (MAEDBS) for 2016 JA8 High Efficacy Lighting
- ENERGY STAR® certified, reference "Certified Light Fixtures" database

WARRANTY

 Five year limited warranty, consult website for details. www.eaton.com/lighting/legal



HLB4

4-Inch Ultra-thin LED
Lens Downlight with
Remote Driver / Junction
Box

Up to 750 Lumens Field Selectable CCT



4000K • 5000K • 3500F

ENERGY DATA			
Lumens	600 Series		
Input Voltage	120V		
Input Current	99 (mA)		
Input Power	12.0 (W)		
Efficiency	60 (LPW)		
Inrush (A)	2.0 A @ 15mS		
THD	≤ 20%		
PF	≥ 0.90		
T Ambient	-30° - +40°C		
Sound Rating	≤ 20dba		











Refer to ENERGY STAR® Certified Products List Can be used to comply with California Title 24 High Efficacy requirements. Certified to California Appliance Efficiency Database under JA8.

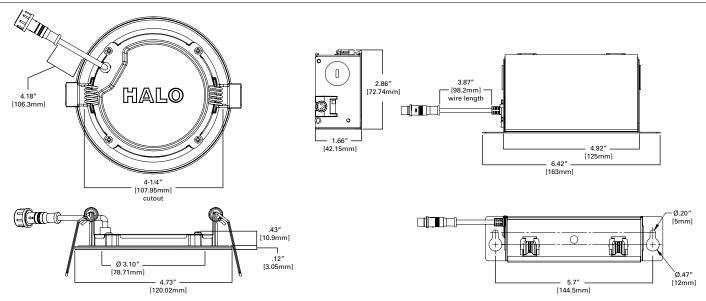












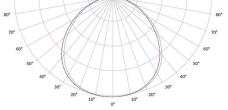
ORDERING INFORMATION

SAMPLE NUMBER: HLB4069FS1EMWR

Models	Lumens	CRI / CCT	Driver	Finish	Packaging	Accessories
HLB4 = 4-Inch ultra-thin LED lens downlight with remote driver / junction box	06 =600 lumen (nominal)	9FS =90 CRI minimum, field selectable 2700, 3000, 3500, 4000 or 5000 K CCT	1E = 120V 60Hz, LE &TE phase cut 5% dimming	MW= matte white flange	R= recyclable 4-color unit carton suitable for point of purchase merchandizing display	HL4NCMF = 4" new construction mounting frame

PHOTOMETRIC DATA

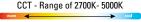
HLB4069FS1EMWR-3000K				
Luminaire lumens		723		
Input watts		12		
LER (LPW)	60.3		
	0-180	1.28		
Spacing Criteria	90-270	1.28		
Ontena	Diagonal 1.39			
Beam angl	Beam angle (degrees)			
Field angle	Field angle (degrees)			
Zonal lumen	Lumens	% Lumens		
0-30	203	28.1		
0-40	335	46.3		
0-60	581	80.4		
0-90	0-90 723			
90				



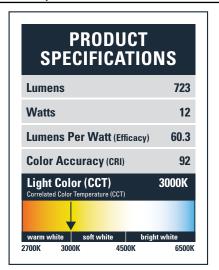
^{*} Tested in accordance with IES LM63. Field results may vary.

Color Metric Summary - 3000K

TM-30-15	Rf = 90.9	
1101-30-13	R _g = 100.7	
CDL/CIE	Ra = 94.1	
CRI/CIE	R9 = 68.5	110°
CCT - Rand	ne of 2700K- 5000K	



Product Specifications



	CCT	Lumens	Power (W)	LPW
	2700K	706.9	12	58.9
	3000K	723.0	12	60.3
4in HLB	3500K	735.2	12	61.3
	4000K	746.1	12	62.2
	5000K	751.9	12	62.7



Exterior Lighting

Spec Sheets



Exhibit D3

Description

Path lighting, a single light at each apartment entry, and porch ceiling lights will comprise the entirety of the outdoor lighting scheme.

Path lighting will be every 10' along walkways bordering parking and leading to entries. Light intensity will be very subtle at 85 lumens per light source. For comparison, a 60 watt incandescent bulb is ~700 lumens.

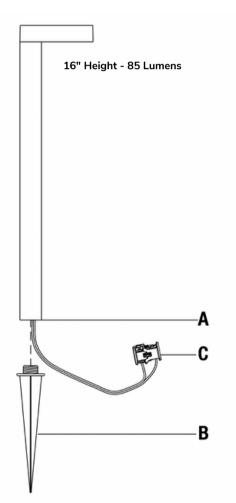
Most entry lights will be mounted on building faces not visible from the road. Roughly 1/3 will be on the sides of the buildings (indirect road exposure). None in the East most row of buildings will face the road. With West row, only 4 lights will be in view of the road & they will also be screened.

Porch ceiling lights are dimmable and not expected to be used often at night. A curfew on porch lighting can be set as a community standard if desired.

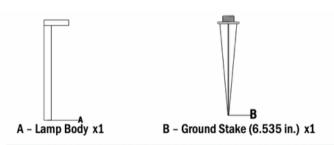
Exhibit D4

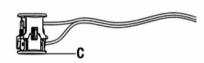
Path Lighting

Spec Sheet









C - Wire Connector (with 12 in. wire attached to lamp body) x1

Cable Selection

12 VOLTTAP	Cable Length		
Total Fixture Wattage	0-50 feet	51-100 feet	101-150 feet
0-60 Watts	16 AWG	16 AWG	14 AWG
61-120 Watts	16 AWG	14 AWG	12 AWG
121-180 Watts	14 AWG	12 AWG	Not recommended
181-240 Watts	14 AWG	12 AWG	Not recommended
241-300 Watts	12 AWG	Not Recommended	Not recommended
600W Transformer = (2x300) Watts	12 AWG	Not Recommended	Not recommended
900W Transformer = (3x300) Watts	12 AWG	Not Recommended	Not recommended

15 VOLT TAP	Cable Length		
Total Fixture Wattage	0-50 feet	51-100 feet	101-150 feet
0-60 Watts	16 AWG*	16 AWG	16 AWG
61-120 Watts	16 AWG*	16 AWG	12 AWG
121-180 Watts	14 AWG*	14 AWG	12 AWG
181-240 Watts	14 AWG*	14 AWG	12 AWG
241-300 Watts	12 AWG*	12 AWG	Not recommended
600W Transformer = (2x300) Watts	12 AWG*	12 AWG	Not recommended
900W Transformer = (3x300) Watts	12 AWG*	12 AWG	Not recommended

Exhibit D5

Entry Lighting

Spec Sheet





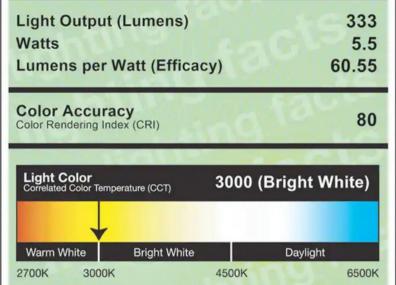




Exhibit D6











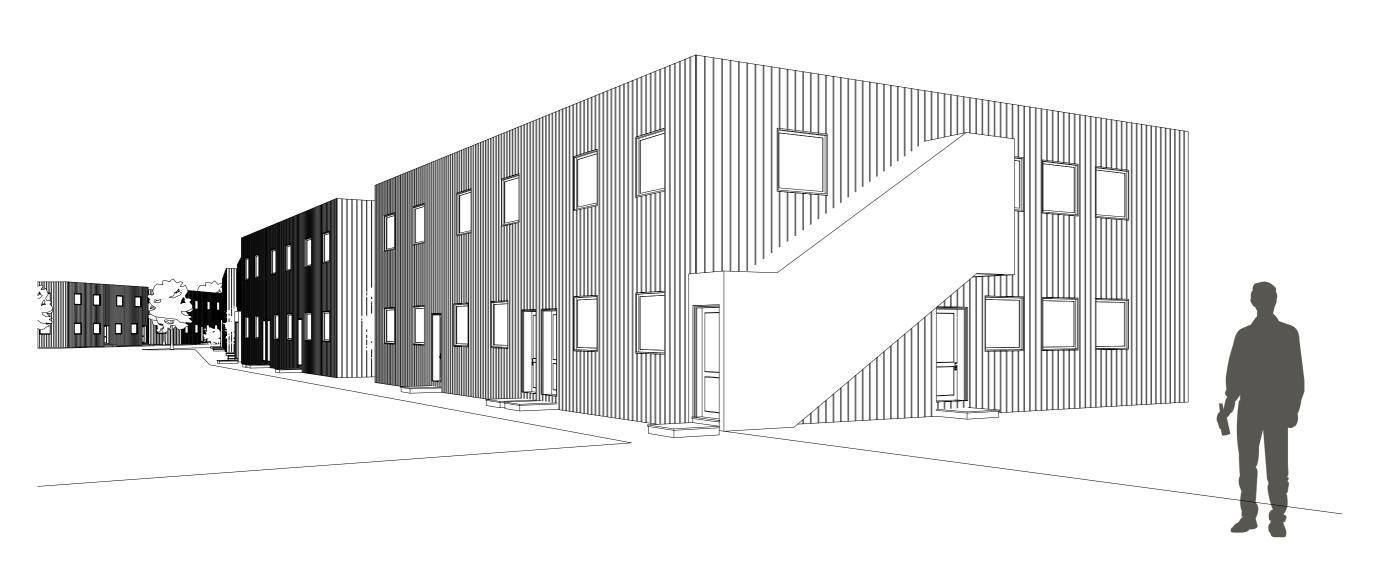
Porch Ceiling Lighting Spec Sheet

2 Lights per porch 723 Lumens (at 3000K color temperature) Dimmable





Actual Aperture Width (in.)	4 in	Housing Height (in.)	0.5 in
Maximum Cutout Size (in.)	4 in	Nominal Lens Aperture Size	4 in.
Product Depth (in.)	4.25 in	Product Height (in.)	0.6 in
Product Width (in.)	4.25 in	Trim Size (Width)	4 in.
Actual Color Temperature (K)	2700, 3000, 3500, 4000, 5000	Color Family	White
Actual Color Terriperature (ry	2700, 3000, 3300, 4000, 3000	Color Family	Willie
Color Rendering Index (CRI)	90	Color Temperature	Warm White, Soft White, Neutral White, Bright White, Daylight
Commercial/Residential	Commercial, Residential	Compatible Bulb Type	Integrated LED
Damp/Wet Rating	Damp Rated, Dry Rated, Wet Rated	Features	Air Tight, Dimmable, Junction Box Compatible, Retrofit, Shallow
Fixture Color/Finish	White	Fixture Material	Metal
IC Rating	IC Rated	Included	Gasket(s), Mounting Brackets, Remodel Clips, Stencil, Wiring Connectors
Indoor/Outdoor	Indoor, Outdoor	Integrated LED Type	Selectable
Kit Type	Integrated LED	Maximum Bulb Wattage	12 W
New Construction or Remodel	New Construction, Remodel	Package Quantity	1
Product Weight (lb.)	1 lb	Recessed Lighting Type	Canless
Reflector Finish Family	White	Returnable	90-Day
Style	Modern	Trim Type	Surface Mount
Voltage	Line Voltage	Watt Equivalence	60



Worcester Place Residential Cluster & Nature Preserve

PROJECT TITLE:
Worcester Place

DATE 01/31/2023

NOTES

DESIGNED BY.
NELSON RILEY

SCALE

SHEET SIZE REV NO.
A3 00

DATE OF ISSUE 1 Feb 2023

DRAWING TITLE:

ARCHITECTURAL SCHEME

DRAWING NO:
01312025_US_Worcester Place SKP & LayOut

Exhibit E2

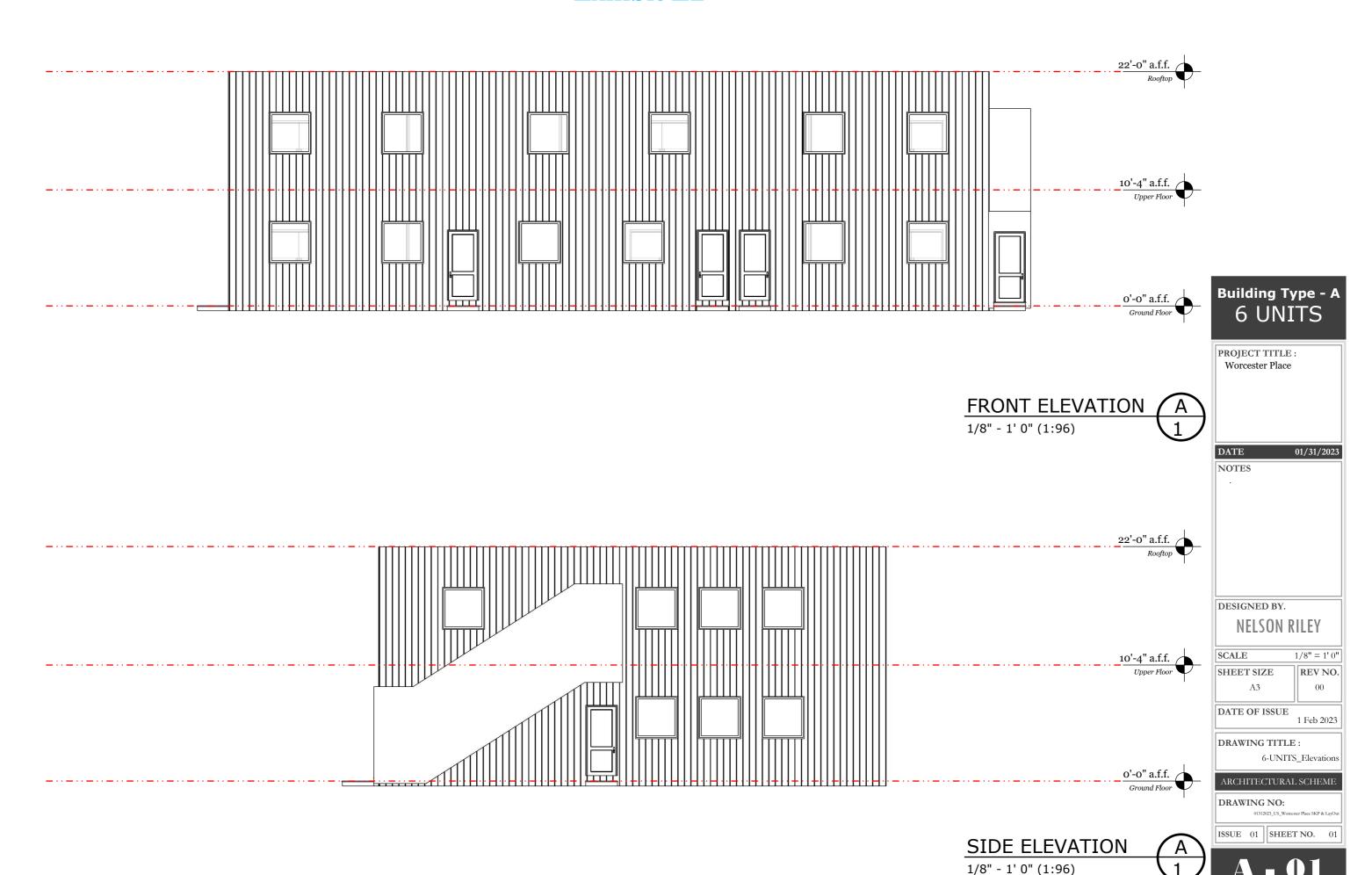


Exhibit E3

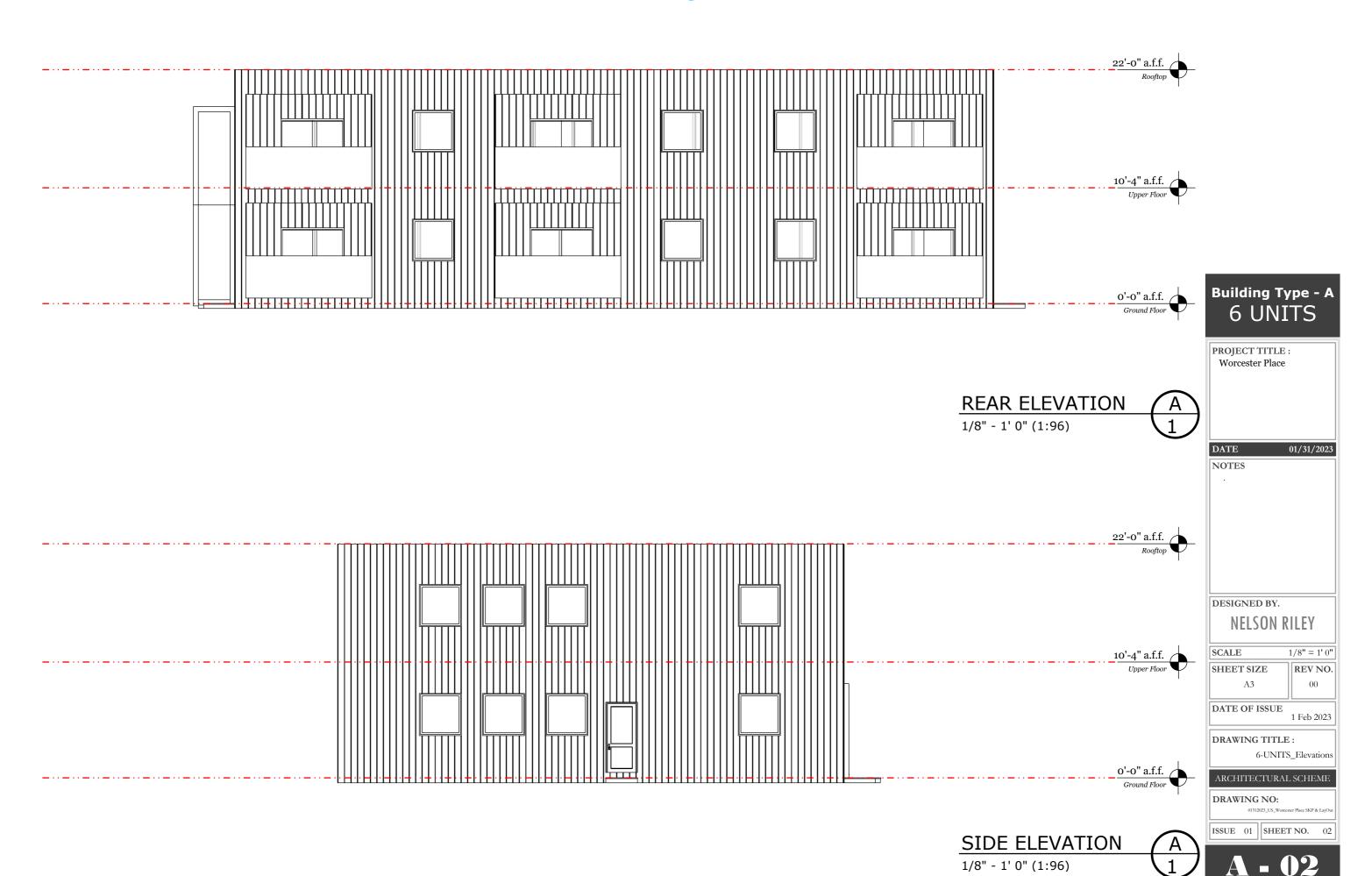
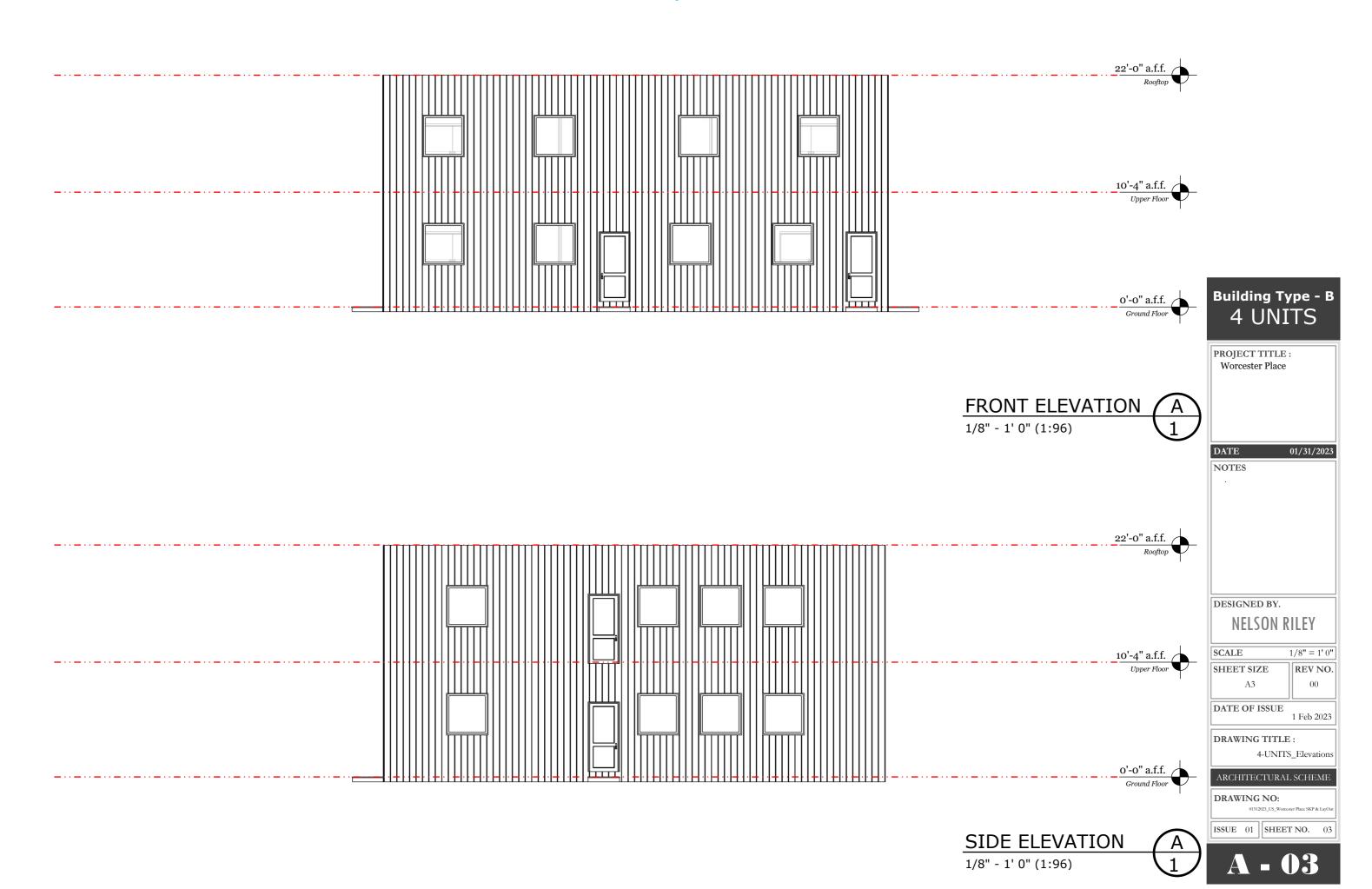
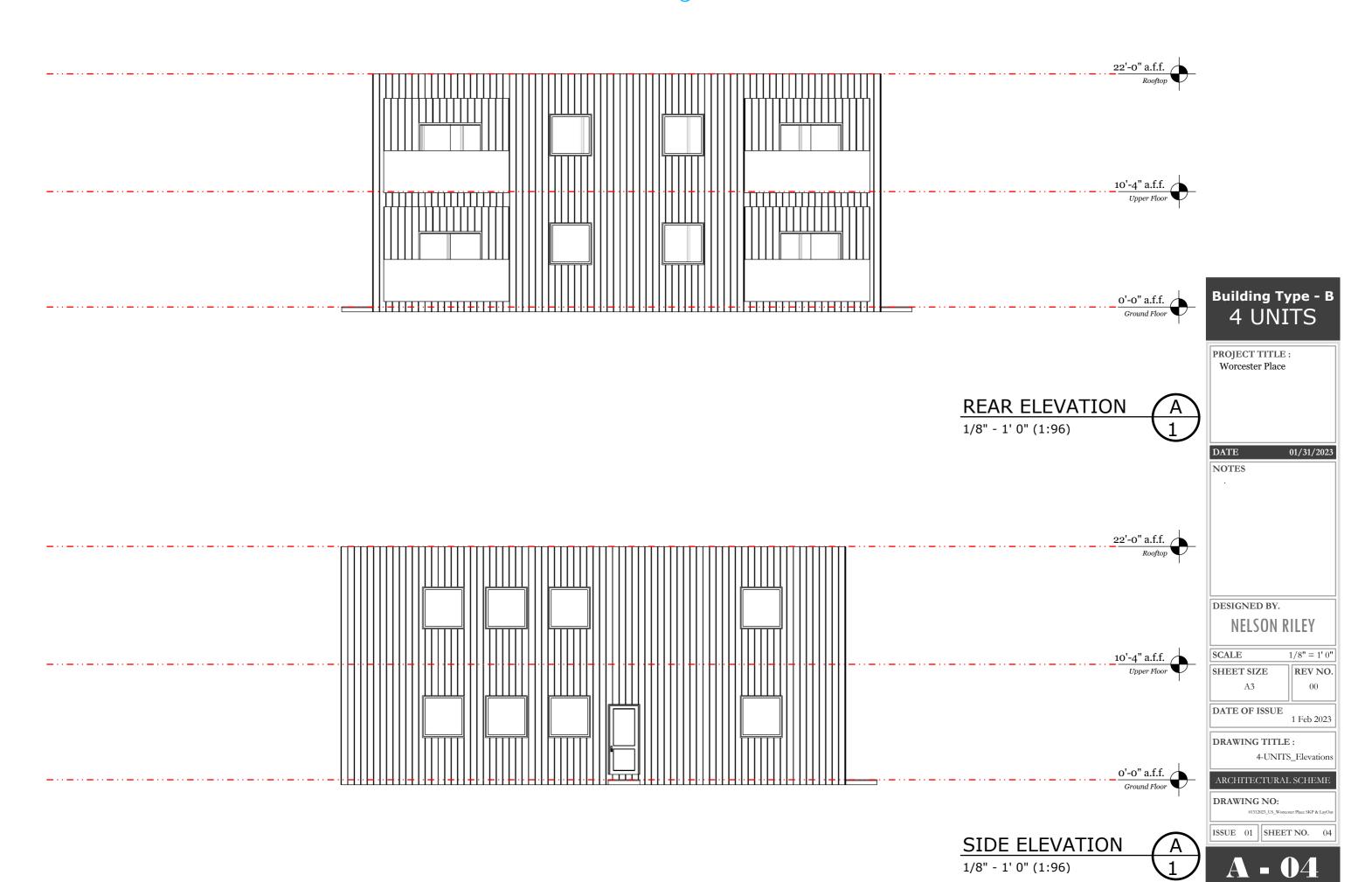
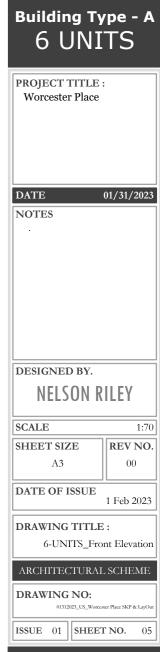


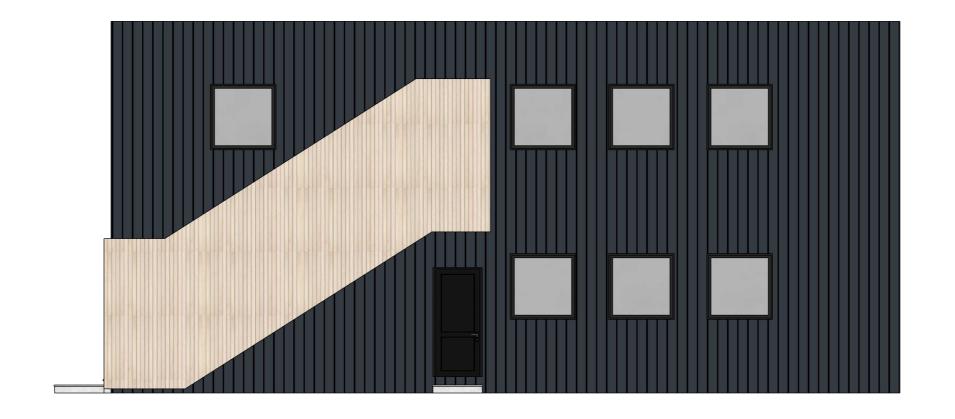
Exhibit E4

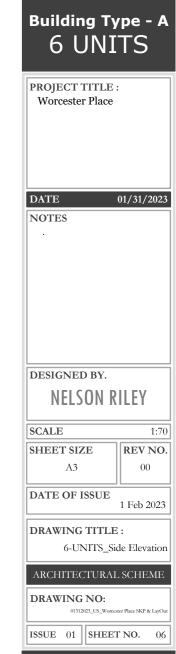


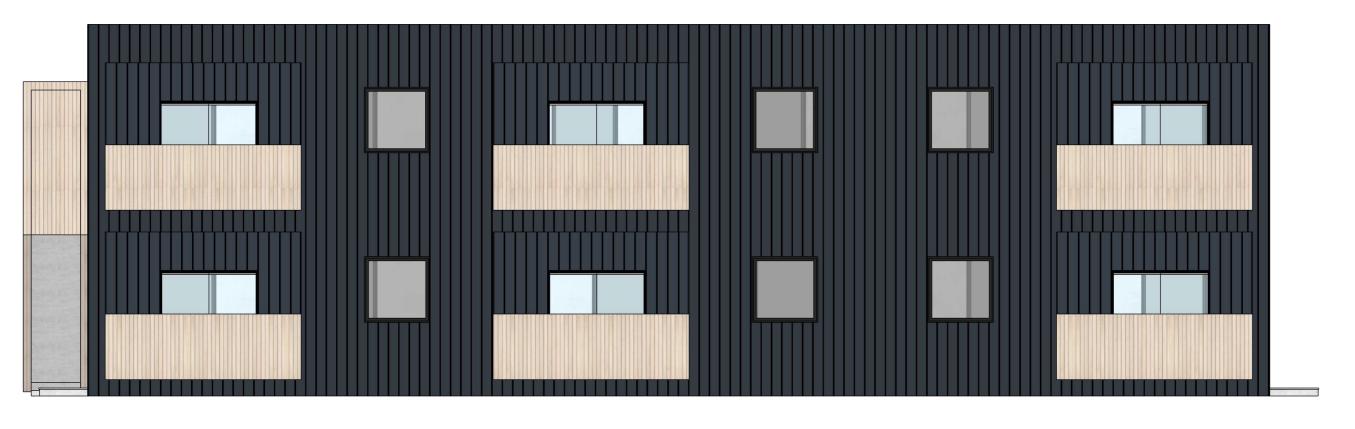


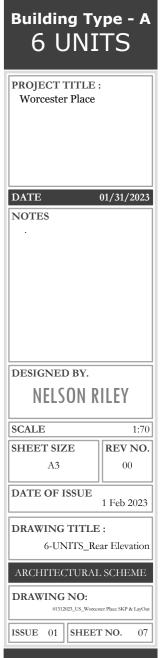


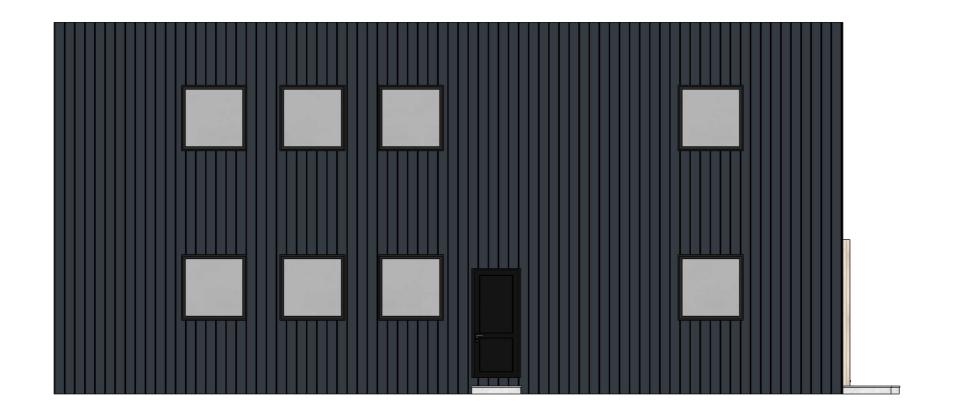


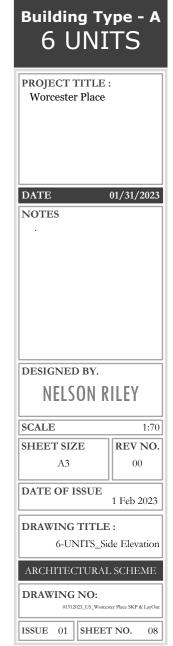




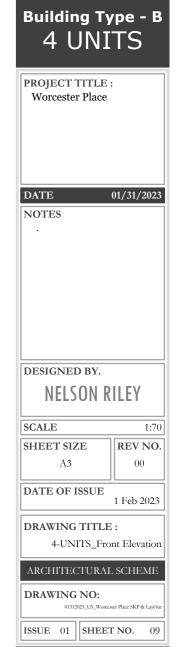




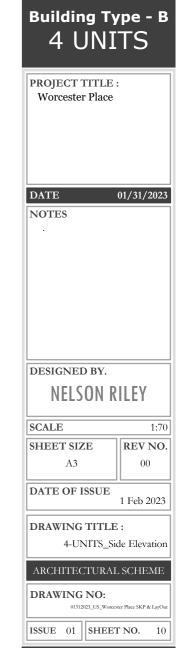


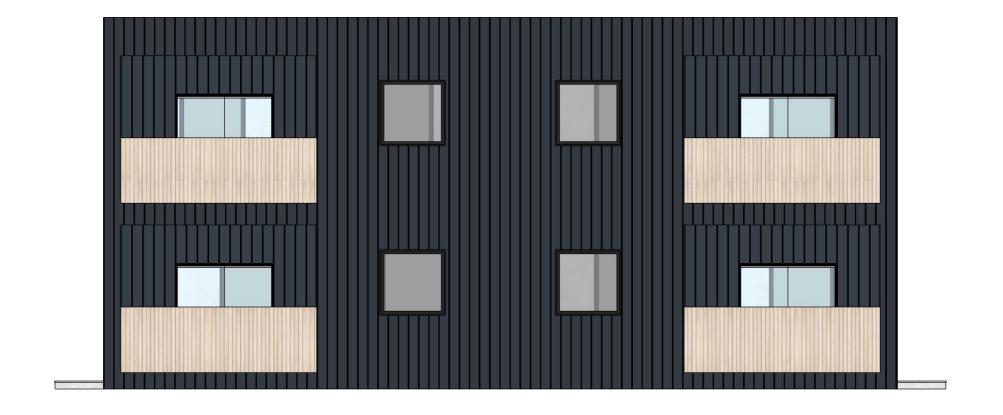


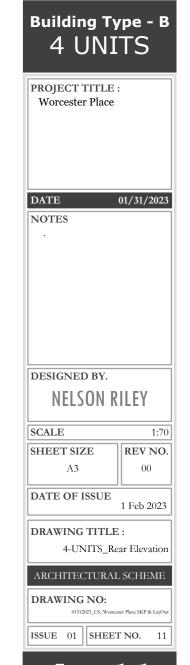


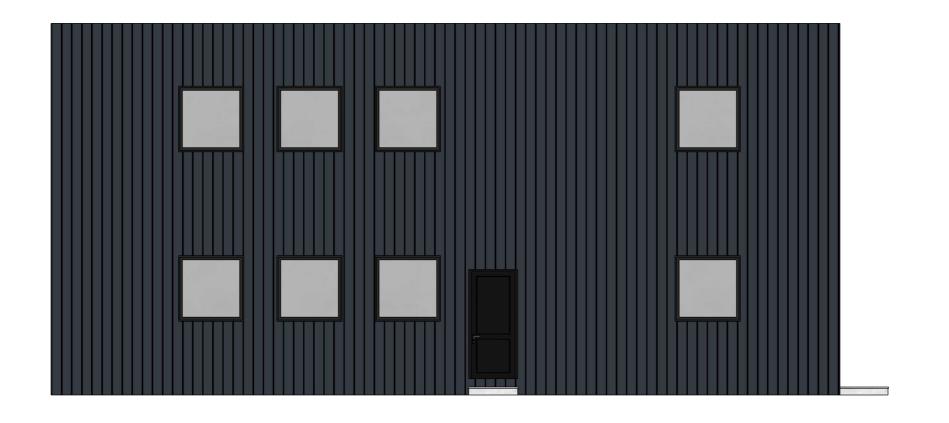


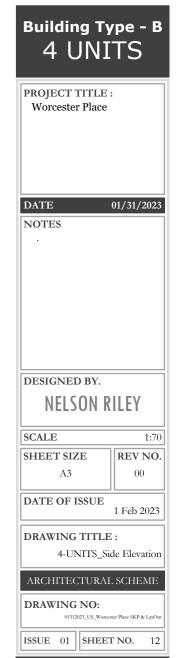




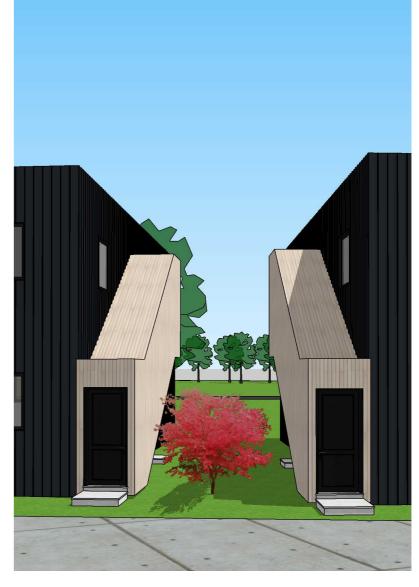












Building Type - A 6 UNITS

PROJECT TITLE : Worcester Place

DATE 01/31/2023

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DESIGNED BY.
NELSON RILEY

SCALE

SHEET SIZE A3

DATE OF ISSUE 1 Feb 2023

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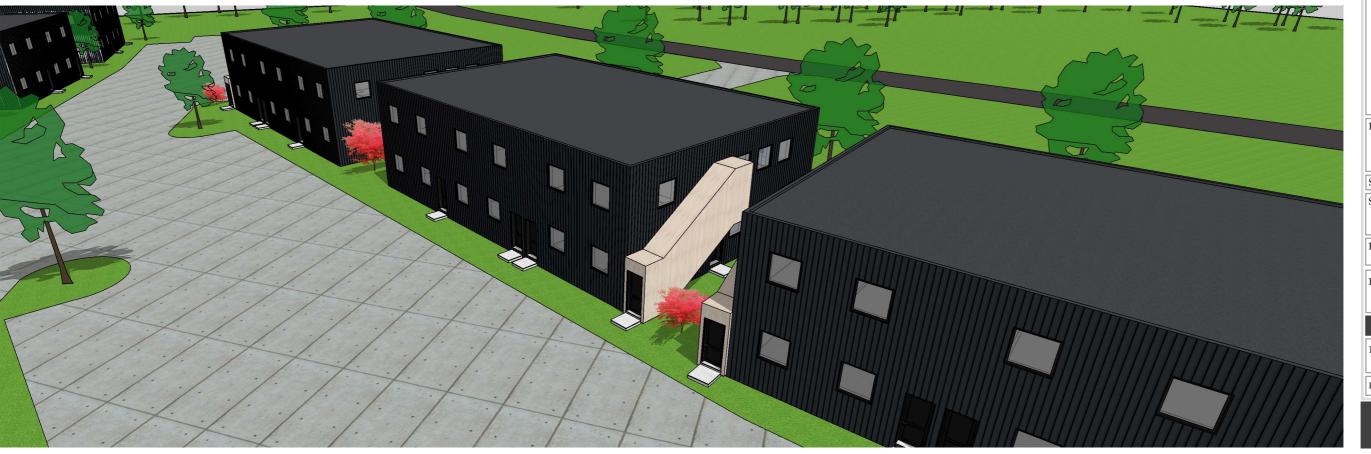
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Building Type - A 6 UNITS

PROJECT TITLE : Worcester Place

01/31/2023

NOTES

DESIGNED BY. **NELSON RILEY**

SCALE

SHEET SIZE

DATE OF ISSUE

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ISSUE 01 SHEET NO. 14





Building Type - A 6 UNITS

PROJECT TITLE : Worcester Place

01/31/2023

NOTES

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SCALE

SHEET SIZE

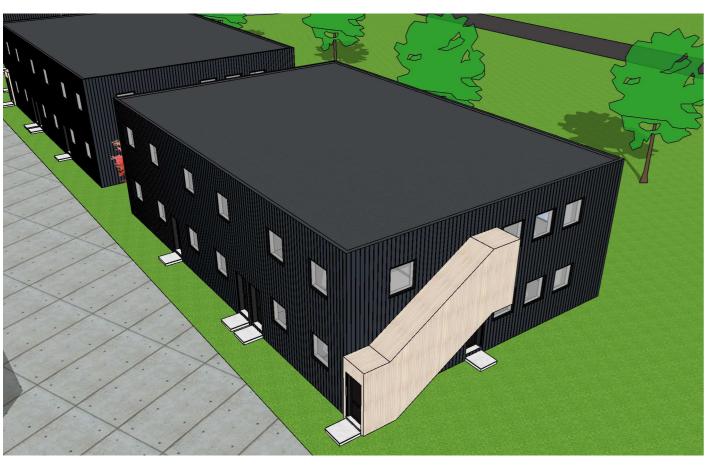
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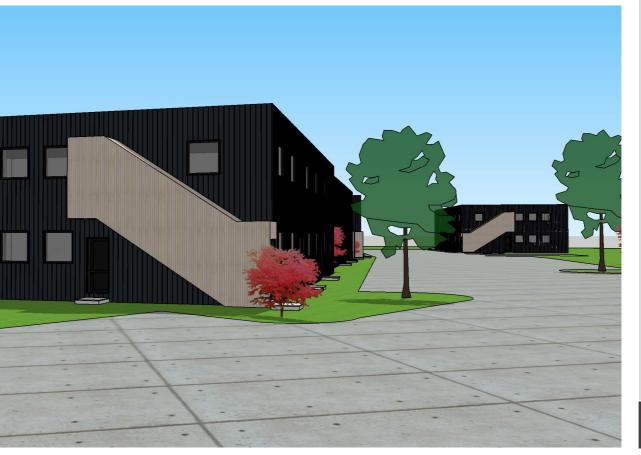
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DRAWING TITLE:

DRAWING NO:

ISSUE 01 SHEET NO. 15









Building Type - B 4 UNITS

PROJECT TITLE : Worcester Place

01/31/2023

NOTES





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DATE OF ISSUE 1 Feb 2023

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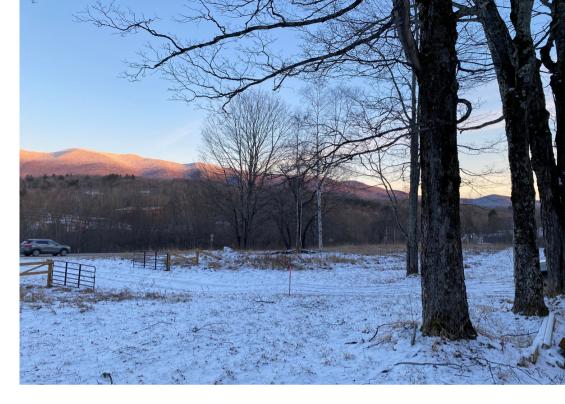
ISSUE 01 SHEET NO. 16

common name	spec	site use(s)						
zen rocks	4-6" minus graded stone	building perimeters + landscaped space between buildings & walkways						
3/4" stone	3/4" graded stone	walkways = 3' wide by default						
staymat	3/4" crushed stone black	parking + roadways						
mulch	bark mulch	around plantings						
edging	tbd	to define edges everywhere needed						
pavers	4'x5' concrete poured on site	every entry way						
concrete curbs	6x6" concrete curb poured on	defines the front of all parking spaces, continuous pour						

scientific name	common name	height	spread	function(s)	form	VT native
viburnum prunifolium	blackhaw viburnum	12-15'	8-12'	hedge, screen	upright oval	yes
syringa vulgaris	common lilac	12-15'	10-18'	hedge, screen	upright oval	no
Ionicera periclymenum	common honeysuckle	4-6'	5-10'	climber, dense screen	spreading, climb	no
acer saccharinum	silver maple / soft maple	70-80'	60-80'	accent or focal point, hedge	maple tree	yes
acer saccharum	sugar maple / hard maple	70-80'	40-60'	accent or focal point, hedge	maple tree	yes
rosa virginia	virginia rose	4-8'	5-6'	decorative, hedge	upright oval	yes
microbiota decussata	siberian carpet cypress	6-10"	4-8'	ground cover, near buildings	creeping	no
lolium multiflorum	rye grass	12-24"	na	re-naturalized surfaces	grass	yes
multiple	northeast wildflower seed	12-24"	na	re-naturalized surfaces	wildflower	yes

Landscape Plants +Materials Look Book





Philosophy

Re-naturalize the environment post construction with native grass and the addition of wildflowers.

Maximize re-use of young, healthy on-site silver & sugar maples for a long term vision of an authentic Vermont environment (see image to left).

Reduce everything else to the background utilizing symmetry and native Vermont plantings.

Exhibit F4

common lilac





virginia rose

blackhaw viburnum





common honeysuckle

rye grass





northeast wildflower seed mix

Exhibit F7

sugar maple



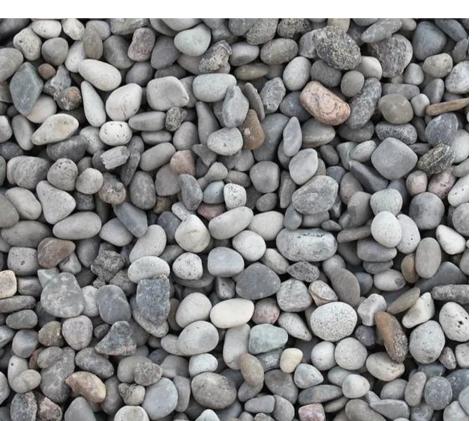


silver maple

Exhibit F8

siberian carpet cypress





zen rocks

Exhibit F9

staymat





3/4" crushed stone



VERMONT LAND DESIGN • SITE CIVIL ENGINEERING •

Test Pit Log

Date of Test Pits: 5/20/2022 Client: Peter Riley, Nelson Riley

Project # 22-617 Excavator: Jon Heuer

Persons on-site: Site Conditions: Sunny and Mild

Depth:	Color:	Texture:	Structure:	Consistence:	Redox Features:	Roots:	Aggregate:	Comments:
Test Pit	t 100							SHWT @ X", Ledge @ X"
0-6	10yr 5/2	Sandy Loam (SL)	Granular (GR)	Friable (FR)				top soil
6-28	10yr 5/4	Fine Sand (FS)	Single Grain (SG)	Loose (L)		14"	small pebbles	
28-34	7.5yr 5/3	Fine Sand (FS)	Subangular Blocky (SBK)	Friable (FR)			small pebbles	
34-96	7.5yr 6/1	Very Fine Sand (VFS)	Subangular Blocky (SBK)	Friable (FR)				
Test Pit	t 101							SHWT @ X", Ledge @ X"
0-6	10yr 5/2	Sandy Loam (SL)	Granular (GR)	Friable (FR)				top soil
6-18	10yr 5/4	Fine Sand (FS)	Single Grain (SG)	Loose (L)		12"	small pebbles	
18-36	10yr 5/2	Fine Sand (FS)	Granular (GR)	Friable (FR)			small pebbles	
36-96	7.5yr 6/1	Very Fine Sand (VFS)	Subangular Blocky (SBK)	Friable (FR)				
Test Pit	t 102							SHWT @ X", Ledge @ X"
0-10	10yr 5/2	Sandy Loam (SL)	Granular (GR)	Friable (FR)				top soil
10-17	10yr 6/6	Fine Sand (FS)	Single Grain (SG)	Loose (L)		10"		
17-27	7.5yr 5/4	Fine Sand (FS)	Single Grain (SG)	Loose (L)				
27-42	7.5yr 6/2	Fine Sand (FS)	Subangular Blocky (SBK)	Friable (FR)			small pebbles	
42-98	7.5yr 7/1	Very Fine Sand (VFS)	Subangular Blocky (SBK)	Friable (FR)				
Test Pit	t 103							SHWT @ X", Ledge @ X"
0-10	10yr 5/2	Sandy Loam (SL)	Granular (GR)	Friable (FR)				top soil
10-27	10yr 6/6	Fine Sand (FS)	Single Grain (SG)	Loose (L)		15"		
27-80	10yr 6/1	Fine Sand (FS)	Granular (GR)	Friable (FR)			small pebbles	
80-104	7.5yr 6/1	Fine Sand (FS)	Subangular Blocky (SBK)	Friable (FR)			small pebbles	



VERMONT LAND DESIGN • SITE CIVIL ENGINEERING •

Test Pit Log

Date of Test Pits: 5/20/2022 Client: Peter Riley, Nelson Riley

Project # 22-617 Excavator: Jon Heuer

Persons on-site: Site Conditions: Sunny and Mild

Depth:	Color:	Texture:	Structure:	Consistence:	Redox Features:	Roots:	Aggregate:	Comments:
Test Pit	t 104							SHWT @ X", Ledge @ X"
0-7	10yr 5/2	Sandy Loam (SL)	Granular (GR)	Friable (FR)				top soil
7-18	10yr 6/6	Fine Sand (FS)	Single Grain (SG)	Loose (L)		10"	small pebbles	
18-24	10yr 5/4	Fine Sand (FS)	Granular (GR)	Friable (FR)			small pebbles	
24-52	7.5yr 6/1	Very Fine Sand (VFS)	Subangular Blocky (SBK)	Friable (FR)				
52-99	7.5yr 7/1	Sand (S)	Single Grain (SG)	Very Friable (VFR)				
Test Pit	t 105							SHWT @ X", Ledge @ X"
0-10	10yr 5/2	Sandy Loam (SL)	Granular (GR)	Friable (FR)				top soil
10-27	10yr 6/6	Fine Sand (FS)	Single Grain (SG)	Loose (L)		12"		
27-80	10yr 6/1	Fine Sand (FS)	Granular (GR)	Friable (FR)			small pebbles	
80-98	7.5yr 6/1	Fine Sand (FS)	Subangular Blocky (SBK)	Friable (FR)			small pebbles	
Test Pit	t 106							SHWT @ X", Ledge @ X"
0-8	10yr 5/2	Sandy Loam (SL)	Granular (GR)	Friable (FR)				top soil
8-30	10yr 5/4	Fine Sand (FS)	Single Grain (SG)	Loose (L)		15"		
30-42	10yr 6/1	Fine Sand (FS)	Granular (GR)	Friable (FR)				
42-98	7.5yr 7/1	Very Fine Sand (VFS)	Subangular Blocky (SBK)	Friable (FR)			small pebbles	
Test Pit	t 107							SHWT @ X", Ledge @ X"
0-11	10yr 5/2	Sandy Loam (SL)	Granular (GR)	Friable (FR)				top soil
11-27	10yr 6/6	Fine Sand (FS)	Granular (GR)	Very Friable (VFR)		11"		
27-80	10yr 6/1	Sand (S)	Granular (GR)	Friable (FR)				
80-98	7.5yr 7/1	Very Fine Sand (VFS)	Subangular Blocky (SBK)	Friable (FR)			small pebbles	
Test Pit	108							SHWT @ X", Ledge @ X"
0-6	10yr 5/2	Sandy Loam (SL)	Granular (GR)	Friable (FR)				top soil
6-24	10yr 5/6	Loamy Sand (LS)	Single Grain (SG)	Loose (L)		12"	small pebbles	
24-36	7.5yr 5/3	Fine Sand (FS)	Granular (GR)	Friable (FR)			small pebbles	
36-96	7.5yr 6/2	Loamy Fine Sand (LFS)	Subangular Blocky (SBK)	Friable (FR)				

Exhibit G3

VERMONT LAND DESIGN • SITE CIVIL ENGINEERING •

Test Pit Log

Date of Test Pits: 5/20/2022

Client: Peter Riley, Nelson Riley

Project # 22-617

Excavator: Jon Heuer

Persons on-site:

Site Conditions: Sunny and Mild

Depth:	Color:	Texture:	Structure:	Consistence:	Redox Features:	Roots:	Aggregate:	Comments:
Test Pit	t 109							SHWT @ X", Ledge @ X"
0-6	10yr 5/4	Sandy Loam (SL)	Granular (GR)	Friable (FR)				top soil
6-17	10yr 5/6	Fine Sand (FS)	Single Grain (SG)	Loose (L)		11"	small pebbles	
17-28	7.5yr 5/4	Fine Sand (FS)	Subangular Blocky (SBK)	Friable (FR)			small pebbles	
28-96	7.5yr 6/1	Loamy Fine Sand (LFS)	Subangular Blocky (SBK)	Friable (FR)				
Test Pit	t 110							SHWT @ X", Ledge @ X"
0-6	10yr 5/4	Sandy Loam (SL)		Friable (FR)				top soil
6-17	10yr 5/6	Fine Sand (FS)	Single Grain (SG)	Loose (L)		13"	small pebbles	
17-28	7.5yr 5/4	Fine Sand (FS)	Subangular Blocky (SBK)	Friable (FR)			small pebbles	
28-96	7.5yr 6/1	Loamy Fine Sand (LFS)	Subangular Blocky (SBK)	Friable (FR)				
Test Pit	t 111	On a deal and						SHWT @ X", Ledge @ X"
0-6	10yr 5/4	Sandy Loam (SL)	Granular (GR)	Friable (FR)				top soil
6-18	10yr 5/6	Fine Sand (FS)	Granular (GR)	Friable (FR)		14"	small pebbles	
18-28	7.5yr 5/3	Fine Sand (FS)	Granular (GR)	Friable (FR)			small pebbles	
28-96	7.5yr 6/2	Loamy Fine Sand (LFS)	Subangular Blocky (SBK)	Friable (FR)				moist
Test Pit	t 112							SHWT @ X", Ledge @ X"
0-12	10yr 5/4	Sandy Loam (SL)	Granular (GR)	Friable (FR)				top soil
12-28	10yr 5/6	Sandy Loam (SL)	Granular (GR)	Friable (FR)		18"	small pebbles	
28-74	7.5yr 6/2	Fine Sand (FS)	Subangular Blocky (SBK)	Friable (FR)			small pebbles	
74-96	7.5yr 6/2	Loamy Fine Sand (LFS)	Subangular Blocky (SBK)	Friable (FR)				
Test Pit	t 113	0 1 /						SHWT @ X", Ledge @ X"
0-6	10yr 5/2	Sandy Loam (SL)	Granular (GR)	Friable (FR)				top soil
6-32	10yr 5/4	Loamy Sand (LS)	Single Grain (SG)	Loose (L)		12"	small pebbles	
36-96	7.5yr 6/2	Loamy Fine Sand (LFS)	Subangular Blocky (SBK)	Friable (FR)				

Exhibit G4

VERMONT LAND DESIGN • SITE CIVIL ENGINEERING •

Test Pit Log

Date of Test Pits: 5/20/2022

Client: Peter Riley, Nelson Riley

Project # 22-617

Excavator: Jon Heuer

Persons on-site:

Site Conditions: Sunny and Mild

Depth:	Color:	Texture:	Structure:	Consistence:	Redox Features:	Roots:	Aggregate:	Comments:
Test Pit	114							SHWT @ X", Ledge @ X"
0-6	10yr 5/2	Sandy Loam (SL)	Granular (GR)	Friable (FR)				top soil
6-24	10yr 5/6	Loamy Sand (LS)	Single Grain (SG)	Loose (L)		12"	small pebbles	
24-36	7.5yr 5/4	Fine Sand (FS)	Granular (GR)	Friable (FR)			small pebbles	
36-96	7.5yr 6/2	Loamy Fine Sand (LFS)	Subangular Blocky (SBK)	Friable (FR)				
Test Pit	115							SHWT @ X", Ledge @ X"
0-6	10yr 5/2	Sandy Loam (SL)	Granular (GR)	Friable (FR)				top soil
6-32	10yr 5/4	Loamy Sand (LS)	Single Grain (SG)	Loose (L)		12"	small pebbles	
36-96	7.5yr 6/2	Loamy Fine Sand (LFS)	Subangular Blocky (SBK)	Friable (FR)				
Test Pit	116	On a deal on a						SHWT @ X", Ledge @ X"
0-6	10yr 5/2	Sandy Loam (SL)	Granular (GR)	Friable (FR)				top soil
6-32	10yr 5/4	Loamy Sand (LS)	Single Grain (SG)	Loose (L)		12"	small pebbles	
36-96	7.5yr 6/2	Loamy Fine Sand (LFS)	Subangular Blocky (SBK)	Friable (FR)				
T D''	447							CLIMIT O VIII I a da a O VIII
Test Pit	117	Sandy Loam						SHWT @ X", Ledge @ X"
0-6	10yr 5/4	(SL)	Granular (GR)	Friable (FR)				top soil
6-17	10yr 5/6	Fine Sand (FS)	Single Grain (SG)	Loose (L)		13"	small pebbles	
17-28	7.5yr 5/4	Fine Sand (FS)	Subangular Blocky (SBK)	Friable (FR)			small pebbles	
28-96	7.5yr 6/1	Loamy Fine Sand (LFS)	Subangular Blocky (SBK)	Friable (FR)				
	10							CLIMIT O MILL IN THE
Test Pit	19							SHWT @ X", Ledge @ X"