

Department of Permitting and Inspections

Zoning Division
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Burlington, VT 05401
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MEMORANDUM

To: The Design Advisory Board
From: Mary O'Neil, AICP, Principal Planner
RE: 323-325 College Street
Date: October 13, 2020

File: ZP21-0329CA
Location: 323-325 College Street
Zone: RH **Ward:** 8E
Parking District: Multi-Modal Mixed Use
Date application accepted: September 25, 2020
Applicant/ Owner: 323 Green Castle LLC, Alpha Properties LLC, Peter Potts IRA, Carol B. Potts IRA, Elizabeth Demas IRA. (Bruce Baker, Peter Potts, Carol Potts, Elizabeth Demas)
Request: 4 unit addition to 323-325 College Street



Background:

- **Zoning Permit 19-0203CA;** Site changes and parking reconfiguration associated with ZP18-0977LL, ZP18-0976LL and ZP18-0975CA, 308 Main Street. October 2018.
- **Zoning Permit 18-0977LL;** Boundary line adjustment with 308 Main Street. See also ZP19-0203CA (323-325 College Street) and ZP18-0976LL and 18-0975CA (308 Main Street.). October 2018.
- **Zoning Permit 18-0230CA;** Alterations to site plan approved under ZP17-0791CA and window replacement under ZP17-0790CA. Add steps on south elevation, window changes, and boiler exhaust penetrations. August 2017.
- **Zoning Permit 18-0060CA;** Establish paved connection with 308 Main Street for shared parking; relocation of dumpster and one tree. Application withdrawn September 2017.
- **Zoning Permit 17-0791CA;** Renovate existing ell for an additional 4 residential units; re-stripe parking for additional spaces. Requires DRB discretionary review of parking space dimensional standards silent in Article 8, Table 8.1.11-1. No change to coverage or setbacks. April 2017.
- **Zoning Permit 17-0790CA;** Replace existing windows on rear ell with new clad wood windows. Approved March 2017.

- **Zoning Permit 11-0086**; Amendment to original approval issued November 3, 2010; specifically, site plan revisions, new access road, revised parking layout and substantially upgraded stormwater retention infrastructure. Approved July 2011.
- **Zoning Permit 11-0086 CA/MA**; Construct an attached building addition with 8 new dwelling units; convert the existing 5 unit building to a single unit with attached laundry/storage area; a net total of 9 dwelling units. (Re-arrangement of the number of units between buildings: 1 to be located in the existing structure; 8 in the new structure.) Demolish existing garage, expand parking area. Approved November, 2010.
- **Zoning Permit 04-496**; Move existing fence and install children's play equipment. Approved April 2004.
- **Zoning Permit 03-170**; Installation of fenced enclosure, 4' high green vinyl chain link. Approved, October 2002.
- **Zoning Permit 83-123**; Erect a 4' chain link fence along 75' of eastern property line and 125' along property line and 84' along northern property line. Approved April 1983.
- **Zoning Permit 80-962**; New doors, installation of a window where there was a door. Interior work. Approved May 1980.
- **Zoning Permit 79-146**; Install 70' of 4' chain link fencing. Approved May 1979.
- **ZBA request** to convert a three apartment house to five apartments; Approved November 1972.

Overview: 323-325 College Street is a connected, 13 unit apartment complex. 5 units are within the original 1832 Chauncey Goodrich/Luther Hagar House at 325 College Street, while 8 are in the 2010 four story addition west of the historic house. Goodrich was a Burlington publisher and bookbinder. That structure is listed on the National Register of Historic Places within the **Main Street College Street Historic District**. This application proposes a primary frontage, four story addition to the 2010 ell to include four additional residential units for a collective total of 17 residential units.

Part 1: Land Division Design Standards

No land division is proposed. Not applicable.

Part 2: Site Plan Design Standards

Sec. 6.2.2 Review Standards

(a) Protection of Important Natural Features:

Plan Sv-1 shows a birch tree in the location of the proposed addition. Google Earth also illustrates an unidentified tree (Pine?) in the front yard that does not appear on the existing conditions plan. The applicant shall define.

(b) Topographical Alterations:



The applicant includes a plan for minor grading to accommodate the addition. The site grading and utility plan are C2.01.

(c) Protection of Important Public Views:

There are no protected public views from or through this property. Not applicable.

(d) Protection of Important Cultural Resources:

Burlington's architectural and cultural heritage shall be protected through sensitive and respectful redevelopment, rehabilitation, and infill. Archeological sites likely to yield information important to the city's or the region's pre-history or history shall be evaluated, documented, and avoided whenever feasible. Where the proposed development involves sites listed or eligible for listing on a state or national register of historic places, the applicant shall meet the applicable development and design standards pursuant to Sec. 5.4.8(b).

See Section 5.4.8, below.

(e) Supporting the Use of Renewable Energy Resources:

No floor plans have been submitted, so it is not evident if ERV closets or similar accommodations are being made for renewable energy. At the very least and in support of Burlington's renewable energy goals, it is recommended that infrastructure (conduit) be provided to accommodate a future solar installation.

(f) Brownfield Sites:

The site is not listed on DEC's Brownfield site list. Not applicable.

(g) Provide for nature's events:

Special attention shall be accorded to stormwater runoff so that neighboring properties and/or the public stormwater drainage system are not adversely affected. All development and site disturbance shall follow applicable city and state erosion and stormwater management guidelines in accordance with the requirements of Art 5, Sec 5.5.3.

The applicants have provided an EPSC/Stormwater plan for review by the City's stormwater engineering staff. Their approval will be a condition of any decision.

Design features which address the effects of rain, snow, and ice at building entrances, and to provisions for snow and ice removal or storage from circulation areas shall also be incorporated.

Doors are illustrated on both the east and west elevations (Plan A200), neither of which appears to afford any canopy. Some method of roof cover should be provided to allow residents sheltered transition upon entry.

The applicant provided a snow management plan with previous applications. That should be updated for this application.

(h) Building Location and Orientation:

The new addition is appended to the 2010 building addition; prominently facing the street and drawing up to a setback line as established by averaging two adjacent properties on either side. In location and orientation, it fills in the street wall.

(i) Vehicular Access: Permit 19-0203CA provided a clock-wise circulation path through 323-325 College Street, with additional traffic flow from 308 Main Street through the site south-to-north. The applicants shall confirm that the previously approved circulation path will continue with this new addition.

(j) Pedestrian Access:

A 5' wide walkway is illustrated from the public sidewalk on College Street to the new easterly entrance to the addition (Plan C1.01.) The westerly entrance immediately abuts the new parallel parking spaces. The area (9.3' in width) should be appropriately marked as a pedestrian entry, clearly marked by differentiated ground materials and/or pavement markings.

(k) Accessibility for the Handicapped:

As originally approved, the building remains accessible from the southerly entrance. One handicap parking space is identified on the site. The building inspector has jurisdiction for the compliance of ADA standards.

(l) Parking and Circulation:

The last permit approved 34 parking spaces on-site for the 13 units. (18-0977LL, 19-0203CA.) 41 parking spaces are proposed with this site plan, reflecting the addition of 6 new parallel parking space on the west of the addition. The location of the additional space has not been identified. (34+6=40; 41 identified on C1.01.)

This project falls within the new Multi-Modal Mixed Use Parking District (adopted 9.14.20), which eliminates parking requirements for those properties with street frontage on major thoroughfares to a depth of 200'. College Street (up to South Williams) is included on that map. Therefore, there are no new parking requirements with the addition of four new residential units.

Parcel circulation had been previously approved in a clock-wise pattern; entering from the easterly drive and circulating out the westerly drive. In addition, the parking plan for 308 Main Street allows for that traffic to move through this site from south to north. The drive width of 10' on the westerly side of the building should be adequate for most residential vehicles, but potentially challenging for trash haulers accessing the dumpster in the southwesterly corner of the lot.

(m) Landscaping and Fences:

The applicant needs to define any changes to the landscaping, including tree removal with the proposed new addition. Plan C1.01 illustrates a retaining wall with a railing. More information will be required for review. Any retaining wall over 3' requires approval of the City engineer.

(n) Public Plazas and Open Space:

No public plazas are proposed. There is a modicum of open space in the front yard for tenant use.

(o) Outdoor Lighting:

Where exterior lighting is proposed the applicant shall meet the lighting performance standards as per Sec 5.5.2.

Exterior downlights are proposed over both new entries. See elevations on plan A200.

(p) Integrate infrastructure into the design:

Exterior storage areas, machinery and equipment installations, service and loading areas, utility meters and structures, mailboxes, and similar accessory structures shall utilize setbacks, plantings, enclosures and other mitigation or screening methods to minimize their auditory and visual impact on the public street and neighboring properties to the extent practicable.

The existing dumpster is in the southeast corner of the parcel. Mailboxes are presumed to be within the residential entry lobby on the south as previously approved. The applicant shall confirm.

Utility and service enclosures and screening shall be coordinated with the design of the principal building, and should be grouped in a service court away from public view. On-site utilities shall be placed underground whenever practicable. Trash and recycling bins and dumpsters shall be located, within preferably, or behind buildings, enclosed on all four (4) sides to prevent blowing trash, and screened from public view.

Any development involving the installation of machinery or equipment which emits heat, vapor, fumes, vibration, or noise shall minimize, insofar as practicable, any adverse impact on neighboring properties and the environment pursuant to the requirements of Article 5, Part 4 Performance Standards.

Rooftop heatpumps will be enclosed within a corrugated metal screen. See Plan A301.

Part 3: Architectural Design Standards

Sec. 6.3.2 Review Standards

(a) Relate development to its environment:

1. Massing, Height and Scale:

The addition is proposed to be appended to the existing westerly addition at 325 College Street, continuing the height and width of the 2010 structure. Although the proposed building height exceeds the dimensional limitations of Table 4.4.5-3 (35'), a 5% differential is allowed for sites with topograph changes across the site (Section 5.2.6 (b), *Exceptions to Height Limits*.) At 36'7 1/2", the proposed height falls within that allowance.

2. Roofs and Rooflines.

A flat roof is proposed, consistent with the existing addition.

3. Building Openings

Window openings are symmetrically arranged; in four columns on the north and east elevations, and three columns on the west elevation. New entrances are figured on opposing east/west elevations.

(b) Protection of Important Architectural Resources:

Burlington's architectural and cultural heritage shall be protected through sensitive and respectful redevelopment, rehabilitation, and infill. Where the proposed development involves buildings listed or eligible for listing on a state or national register of historic places, the applicant shall meet the applicable development and design standards pursuant to Sec. 5.4.8. The introduction of new buildings to a historic district listed on a state or national register of historic places shall make every effort to be compatible with nearby historic buildings.

See Section 5.4.8.

(c) Protection of Important Public Views:

Not applicable.

(d) Provide an active and inviting street edge:

Although similar to the original building addition approved in 2010, the new addition removes the blind entrance at the 2010 addition's lower level (oddly entering into a bedroom) with a relocation of entrances to the sides. As an addition, an entrance facing the street is not a requirement. Articulated in the same manner as other recent multi-unit buildings, it is tidy.

(e) Quality of materials:

All development shall maximize the use of highly durable building materials that extend the life cycle of the building, and reduce maintenance, waste, and environmental impacts. Such materials are particularly important in certain highly trafficked locations such as along major streets, sidewalks, loading areas, and driveways. Efforts to incorporate the use of recycled content materials and building materials and products that are extracted and/or manufactured within the region are highly encouraged.

Consistent with other recently constructed apartment buildings, it is sheathed in a combination of fiber cement clapboard, corrugated metal with an exposed concrete foundation.

Owners of historic structures are encouraged to consult with an architectural historian in order to determine the most appropriate repair, restoration or replacement of historic building materials as outlined by the requirements of Art 5, Sec. 5.4.8.

This is an addition to an historic structure; so assessment of appropriate sheathing for repair or replacement of historic building materials does not apply.

(f) Reduce energy utilization:

All new construction is required to meet the Guidelines for Energy Efficient Construction pursuant to the requirements of Article VI. Energy Conservation, Section 8 of the City of Burlington Code of Ordinances.

New structures should take advantage of solar access where available, and shall undertake efforts to reduce the impacts of shadows cast on adjacent buildings where practicable, in order to provide opportunities for the use of active and passive solar utilization.

At the very least, the addition should be constructed toward the inclusion of solar utilization in the future by incorporating conduit within the plan.

(g) Make advertising features complementary to the site:

Any signs shall require a separate sign permit.

(h) Integrate infrastructure into the building design:

See Section 6.2.2. (p), above.

(i) Make spaces secure and safe:

Construction shall comply with all required building and life safety codes as determined by the building inspector and fire marshal.

Building entrances/entry points shall be visible and adequately lit, and intercom systems for multi-family housing should be incorporated where possible, to maximize personal safety.

Both entrances are proposed to have exterior downlights. Intercom systems are recommended to maximize personal safety.

Section 5.4.8 Historic Buildings and Sites

The City seeks to preserve, maintain, and enhance those aspects of the city having historical, architectural, archaeological, and cultural merit. Specifically, these regulations seek to achieve the following goals:

To preserve, maintain and enhance Burlington's historic character, scale, architectural integrity, and cultural resources;

To foster the preservation of Burlington's historic and cultural resources as part of an attractive, vibrant, and livable community in which to live, work and visit;

To promote a sense of community based on understanding the city's historic growth and development, and maintaining the city's sense of place by protecting its historic and cultural resources; and,

To promote the adaptive re-use of historic buildings and sites.

(a) Applicability:

These regulations shall apply to all buildings and sites in the city that are listed, or eligible for listing, on the State or National Register of Historic Places.

(b) Standards and Guidelines:

The following development standards, following the Secretary of the Interior's Standards for the Treatment of Historic Properties, shall be used in the review of all applications involving historic buildings and sites subject to the provisions of this section and the requirements for Design Review in Art 3, Part 4. The Secretary of the Interior's Standards are basic principles created to help preserve the distinctive character of a historic building and its site. They are a series of concepts about maintaining, repairing and replacing historic features, as well as designing new additions or making alterations. These Standards are intended to be applied in a reasonable manner, taking into consideration economic and technical feasibility.

1. *A property will be used as it was historically or be given a new use that requires minimal change to its distinctive materials, features, spaces, and spatial relationships.*

The existing Goodrich/Hagar historic structure at 325 College Street remains residential, as it was originally constructed.

2. *The historic character of a property will be retained and preserved. The removal of distinctive materials or alteration of features, spaces, and spatial relationships that characterize a property will be avoided.*

Although no physical changes are proposed for the historic Goodrich/Hagar house, the entire building mass at 323 College Street is an addition to that building, as was reviewed as such in 2010. The increased setback reflected in the existing conditions plan was deliberate, so the new building mass would be appropriately deferential to the historic home. This plan eliminates that purposeful setback, removing the intentional space before the 323 residential addition and changing the spatial relationship between the two building ell. The DAB must determine the relevance of that 2010 decision that required structural setback for the new building mass, to differentiate it and defer to the prominence of the historic home.

3. *Each property will be recognized as a physical record of its time, place, and use. Changes that create a false sense of historical development, such as adding conjectural features or elements from other historic properties, will not be undertaken.*

While no conjectural features are proposed, the elimination of the intentional setback changes the relationship to the historic structure and gives greater importance to the modern building addition.

4. *Changes to a property that have acquired historic significance in their own right will be retained and preserved.*

The 2010 addition has not acquired historic significance in its own right. Not applicable.

5. *Distinctive materials, features, finishes, and construction techniques or examples of craftsmanship that characterize a property will be preserved.*

The 2010 building addition does not include any particular craftsmanship, feature, finishes or construction techniques requiring preservation.

6. *Deteriorated historic features will be repaired rather than replaced. Where the severity of deterioration requires replacement of a distinctive feature, the new feature will match the old*

in design, color, texture, and, where possible, materials recognizing that new technologies may provide an appropriate alternative in order to adapt to ever changing conditions and provide for an efficient contemporary use. Replacement of missing features will be substantiated by documentary and physical evidence.

No deteriorated historic building features are proposed for replacement. Not applicable.

7. *Chemical or physical treatments, if appropriate, will be undertaken using the gentlest means possible. Treatments that cause damage to historic materials will not be used.*

Not applicable.

8. *Archeological resources will be protected and preserved in place. If such resources must be disturbed, mitigation measures will be undertaken.*

There are no identified archaeological resources at this location. If project development reveals any resources, construction will cease until appropriate authorities assess, evaluate, and assign appropriate disposition of them.

9. *New additions, exterior alterations, or related new construction will not destroy historic materials, features, and spatial relationships that characterize the property. The new work shall be differentiated from the old and will be compatible with the historic materials, features, size, scale, and proportion, and massing to protect the integrity of the property and its environment.*

The 2010 approval for the 8 unit addition was very intentional in setting the building mass back from the street and allowing the historic structure to retain prominence. This proposal will indeed be differentiated from the old in materials and design. The building massing, while similar in scale and size (to the 2010 addition) steps boldly toward the street and in its location the potential to diminish the importance and the physical ability to view the 1832 structure. Were this project proposed on a separate, abutting lot, the prominence and modern vocabulary of the new work would be easily interpreted. But this remains an addition, appended to a listed historic property. The ordinance will allow the structural addition, but the DAB must assess the elimination of the 2010 addition setback providing intended deferential stature. The new addition elevates the overall importance of this large building mass; competing for attention on the single lot.

10. *New additions and adjacent or related new construction will be undertaken in such a manner that, if removed in the future, the essential form and integrity of the historic property and its environment would be unimpaired.*

It is possible to imagine that if the entire westerly addition were removed, the 1832 Goodrich/Hagar house would retain its integrity.

Items for the Board's consideration if approval is recommended:

1. A landscaping plan, included proposed tree removal shall be provided.
2. Written approval of the Erosion Prevention and Sediment Control Plan, as well as the Stormwater plan will be a condition of any approval.

3. Some form of roof canopy shall be provided for both building entrances to ensure shelter from inclement weather.
4. Floor and roof plans shall be submitted.
5. The applicant shall confirm the direction of traffic flow throughout the site to identify any conflicts with the newly proposed parking spaces.
6. Retaining walls over 3' in height require approval by the City engineer.
7. The applicant shall provide further information about the new retaining wall and the fence, as well as more definition about what "adjust retaining wall" means. (Plan C1.01)
8. The applicants shall provide an updated snow management plan.
9. The westerly pedestrian entrance shall be clearly marked by differentiated ground materials and/or pavement markings to prevent vehicular blockage of the building entrance.
10. The applicant will be required to provide a letter of capacity for adequate water and sewer capacity for the new units.
11. The applicant will be required to secure a State of Vermont wastewater permit.
12. The applicants shall define/confirm the location of additional mailboxes for the new units.
13. Occupancy of the new units will be limited to a definition of a family in Article 13. Not more than 4 unrelated adults may occupy any unit.
14. The DRB will likely require incorporation of the property management plan, previously approved for this parcel, within this review. (ZP11-0086CA/MA, Condition #11.)

323 COLLEGE STREET - EXISTING CONDITIONS PHOTOS



VIEW TO SOUTHWEST FROM COLLEGE STREET



VIEW TO SOUTH FROM COLLEGE STREET



VIEW TO SOUTHEAST FROM COLLEGE STREET



101 Walnut Street
PO Box 9151
Watertown, MA 02471
617.924.1770

Legend

- ① DRAIN MANHOLE
- ② CATCH BASIN
- ③ SEWER MANHOLE
- ④ ELECTRIC MANHOLE
- ⑤ TELEPHONE MANHOLE
- ⑥ CLEANOUT
- ⑦ HAND HOLE
- ⑧ WATER VALVE
- ⑨ FIRE HYDRANT
- ⑩ GAS VALVE
- ⑪ GAS METER
- ⑫ BOLLARD w/LIGHT
- ⑬ STREET SIGN
- ⑭ LIGHT POLE
- ⑮ UTILITY POLE
- ⑯ GUY POLE
- ⑰ GUY WIRE
- ⑱ LANDSCAPED AREA
- ⑲ EDGE OF PAVEMENT
- ⑳ CONCRETE CURB
- ㉑ BITUMINOUS CURB
- ㉒ GUARD RAIL
- ㉓ CHAIN LINK FENCE
- ㉔ DRAINAGE LINE
- ㉕ ROOF DRAIN
- ㉖ SEWER LINE
- ㉗ OVERHEAD WIRE
- ㉘ UNDERGROUND ELECTRIC
- ㉙ TELEPHONE LINE
- ㉚ GAS LINE
- ㉛ WATER LINE
- ㉜ STONE WALL
- ㉝ TREE LINE
- ㉞ PROPERTY LINE
- ㉟ TREES
- ㊱ MINOR CONTOUR
- ㊲ MAJOR CONTOUR
- ㊳ SPOT ELEVATION
- ㊴ TOP & BOTTOM OF WALL ELEVATION
- ㊵ BUILDING
- ㊶ PARKING COUNT

Proposed Addition 323 Greencastle

323 College Street
Burlington, Vermont

No.	Revision	Date	Appr'd.

Designed by: _____ Checked by: _____

Issued for: _____ Date: July 14, 2020

Review

Existing Conditions
Plan of Land

Drawing Number

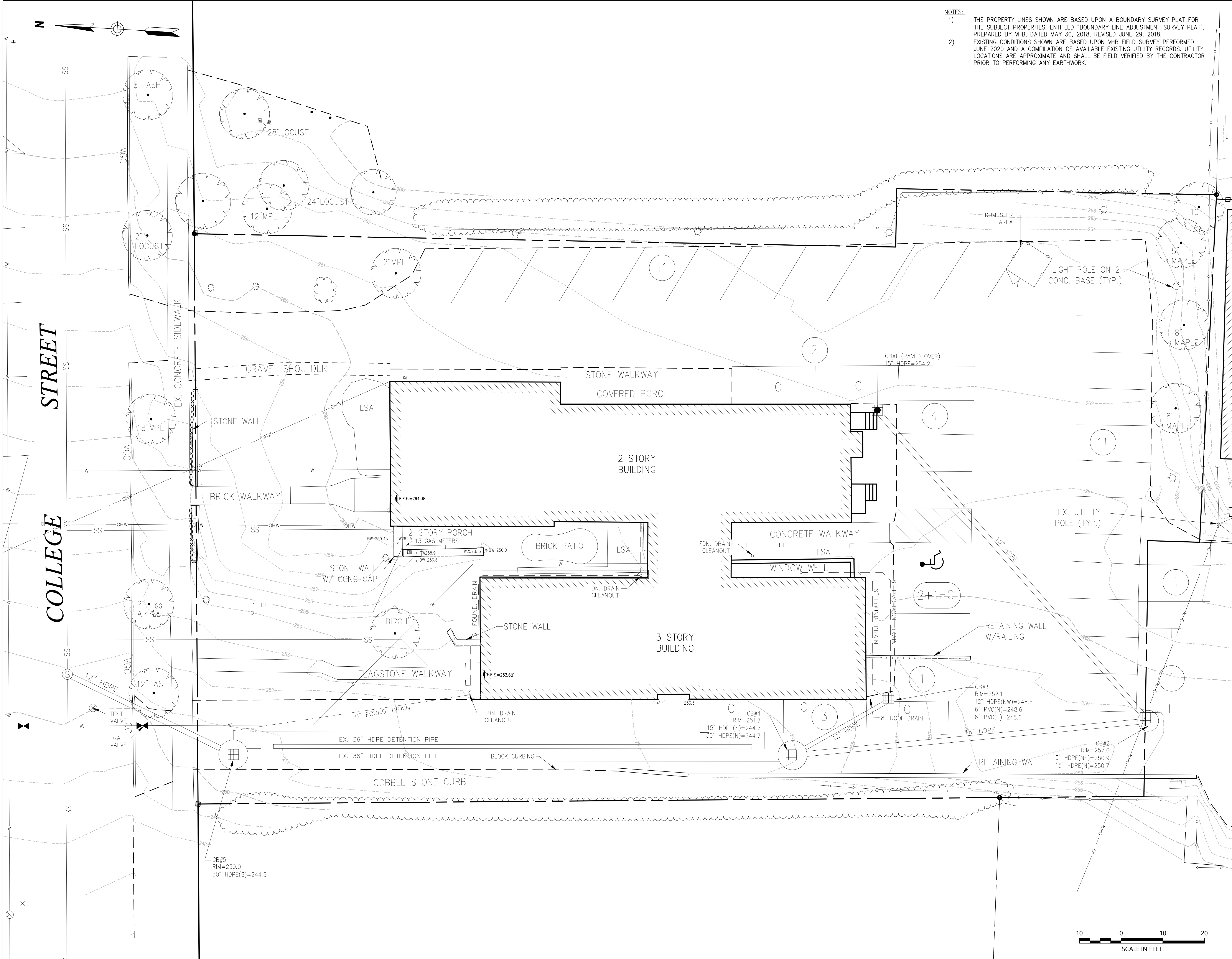
Sv-1

Sheet 1 of 5

Project Number
57970.00

NOTES:

- 1) THE PROPERTY LINES SHOWN ARE BASED UPON A BOUNDARY SURVEY PLAT FOR THE SUBJECT PROPERTIES, ENTITLED "BOUNDARY LINE ADJUSTMENT SURVEY PLAT", PREPARED BY VHB, DATED MAY 30, 2018, REVISED JUNE 29, 2018.
- 2) EXISTING CONDITIONS SHOWN ARE BASED UPON VHB FIELD SURVEY PERFORMED JUNE 2020 AND A COMPILATION OF AVAILABLE EXISTING UTILITY RECORDS. UTILITY LOCATIONS ARE APPROXIMATE AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO PERFORMING ANY EARTHWORK.

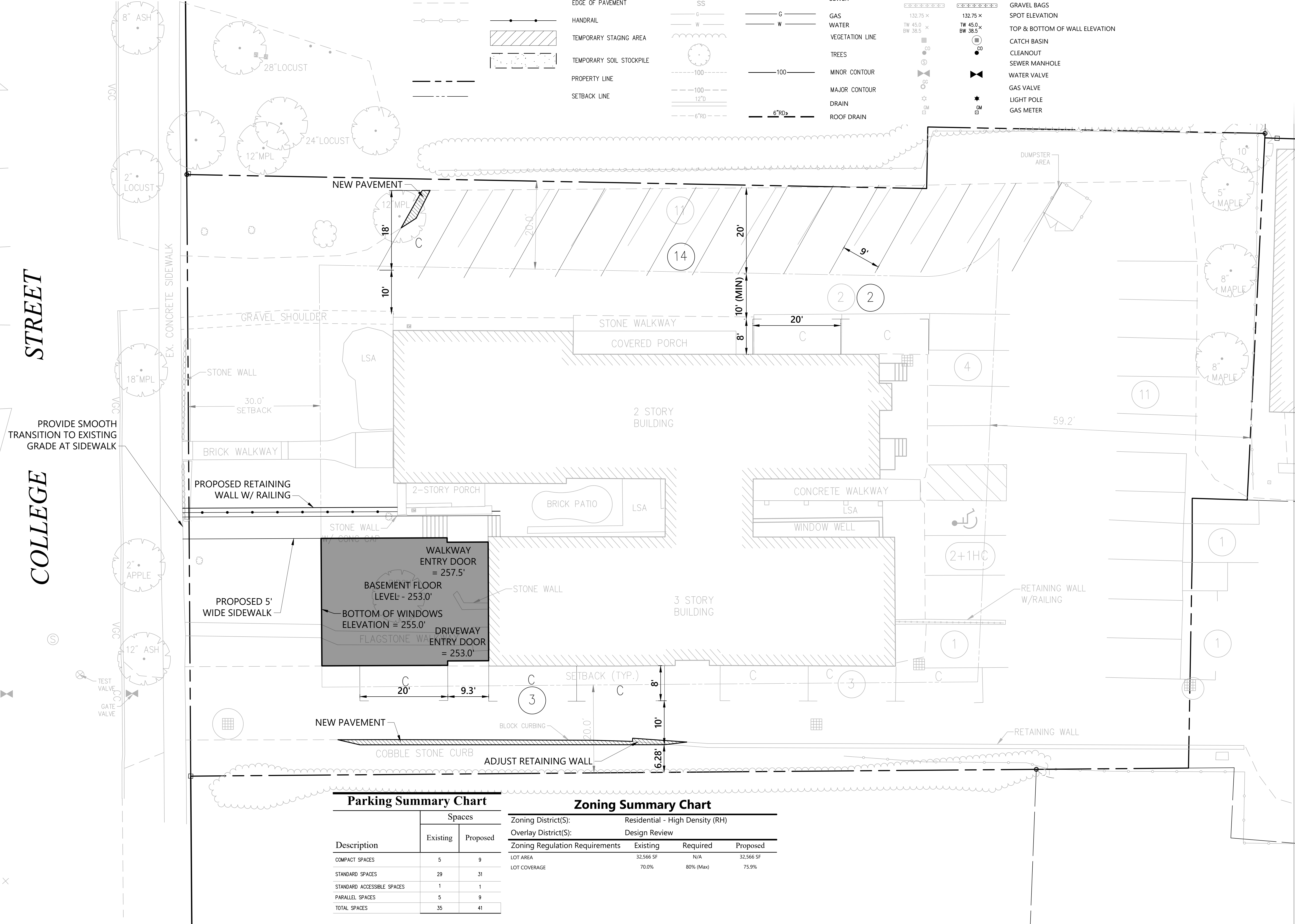


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Legend

EXISTING	PROPOSED	EXISTING	PROPOSED	EXISTING	PROPOSED	EXISTING	PROPOSED



Parking Summary Chart		
Description	Spaces	
	Existing	Proposed
COMPACT SPACES	5	9
STANDARD SPACES	29	31
STANDARD ACCESSIBLE SPACES	1	1
PARALLEL SPACES	5	9
TOTAL SPACES	35	41

Zoning Summary Chart			
Zoning District(S):	Residential - High Density (RH)		
Overlay District(S):	Design Review		
Zoning Regulation Requirements	Existing	Required	Proposed
LOT AREA	32,566 SF	N/A	32,566 SF
LOT COVERAGE	70.0%	80% (Max)	75.9%



Proposed Addition
323 Greencastle, LLC

323 College Street
Burlington, Vermont

No.	Revision	Date	Appr.

Designed by	CHS	Checked by	PBS
Issued for	Review	Date	July 14, 2020

Not Approved for Construction

Layout and
Materials Plan

Drawing Number

C1.01

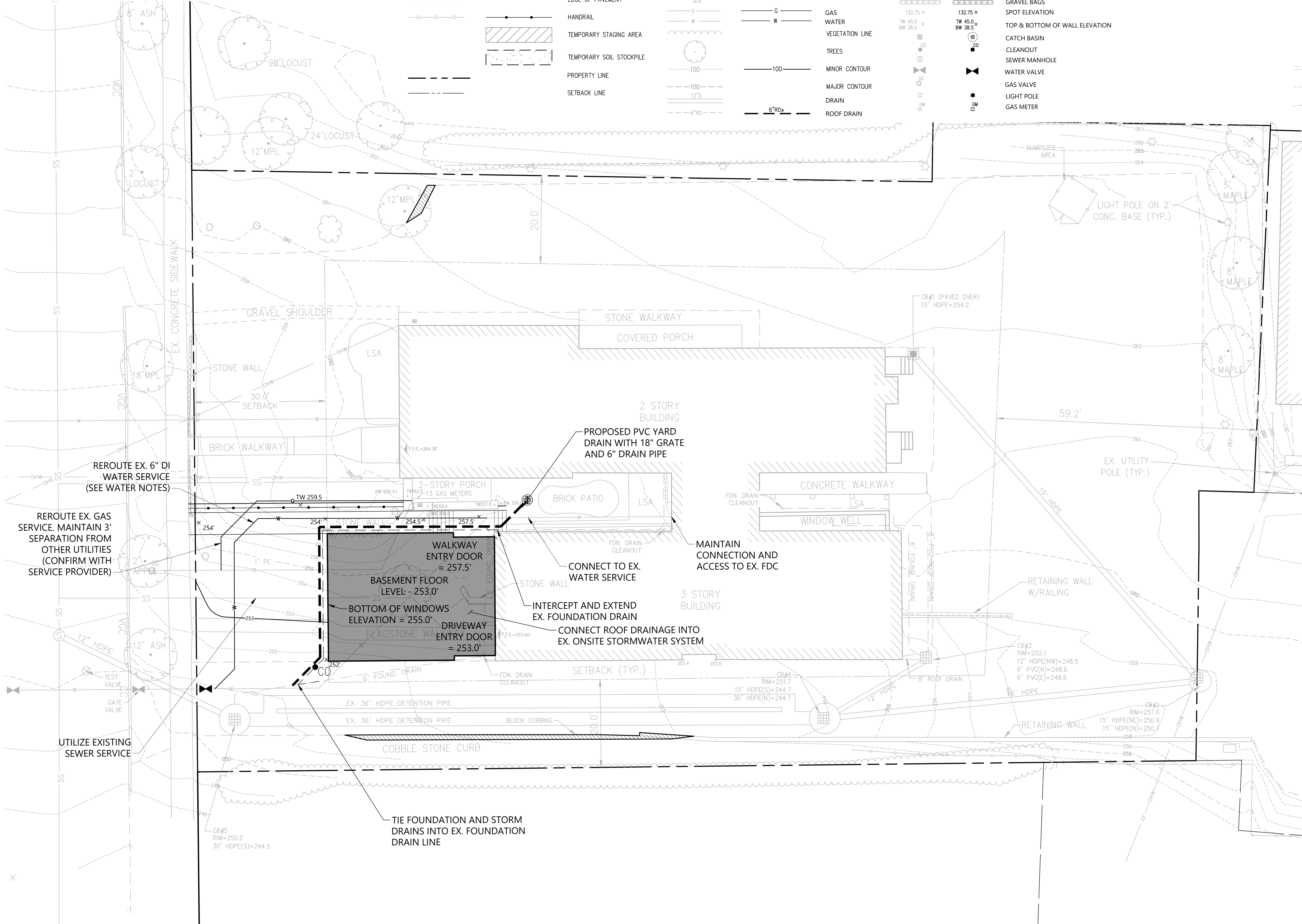
Sheet 2 of 5

Project Number
57970.00



101 Walnut Street
PO Box 9151
Watertown, MA 02471
617.924.1770

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0 5 10 20 Feet

Proposed Addition
323 Greencastle, LLC

323 College Street
Burlington, Vermont

No.	Revision	Date	Appvd.

Designed by	CHS	Checked by	PBS
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Review July 14, 2020

Not Approved for Construction

Site Grading and Utility Plan

Drawing Number

C2.01

Sheet 3 of 5

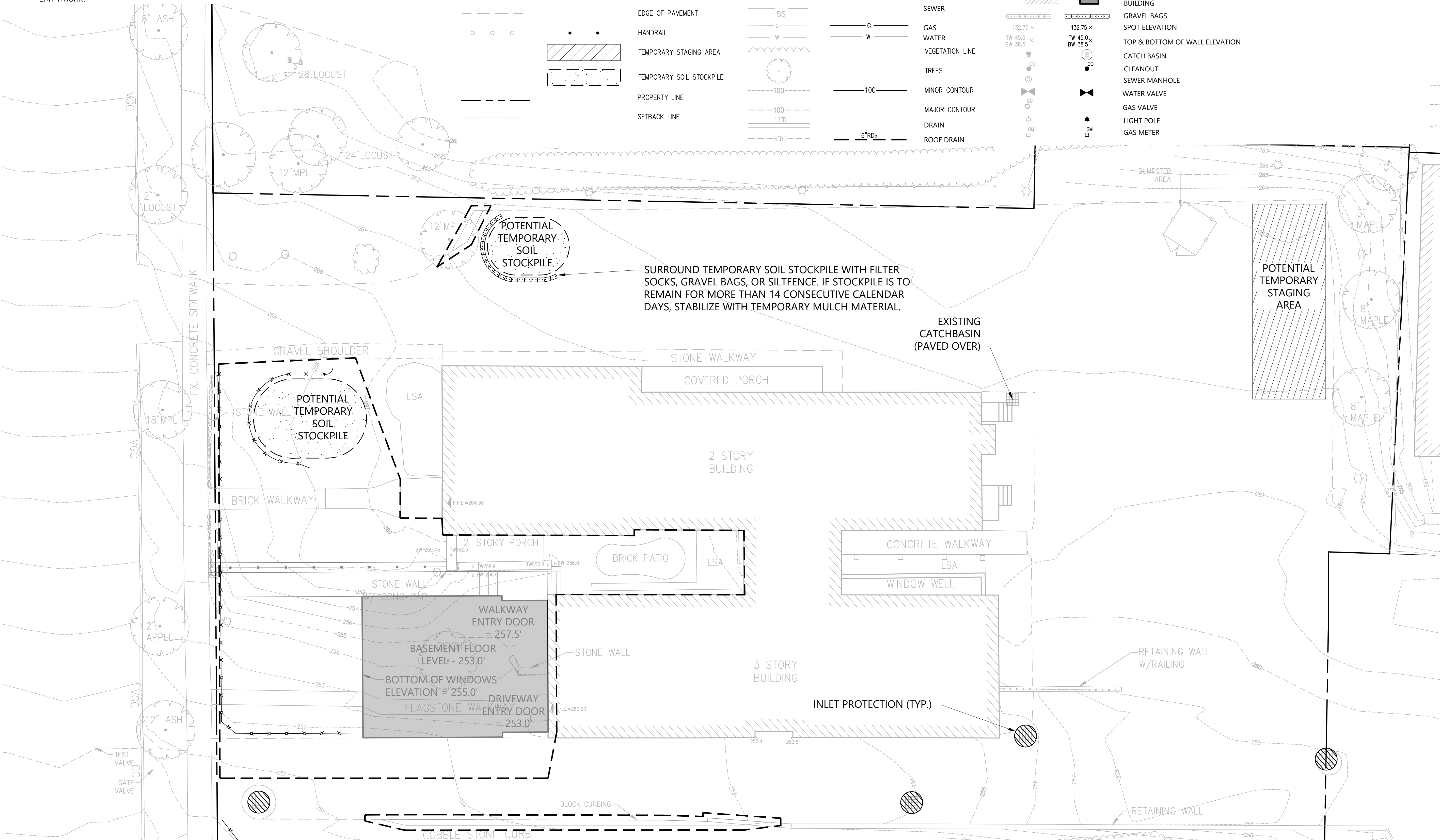
Project Number
57970.00

Project Number
57970 00

NOTES:

- EROSION CONTROL NOTES

- Saved Monday, July 13, 2020 10:37:14 PM CHALE-SILLS Plotted Tuesday, July 14, 2020 9:01:22 AM Hale-Sills, Chris



Proposed Addition
323 Greencastle, LLC

323 College Street
Burlington, Vermont

No.	Revision	Date	Apprvd.

Designed by	Checked by
CHS	PBS

Review

July 14, 2020

Not Approved for Construction

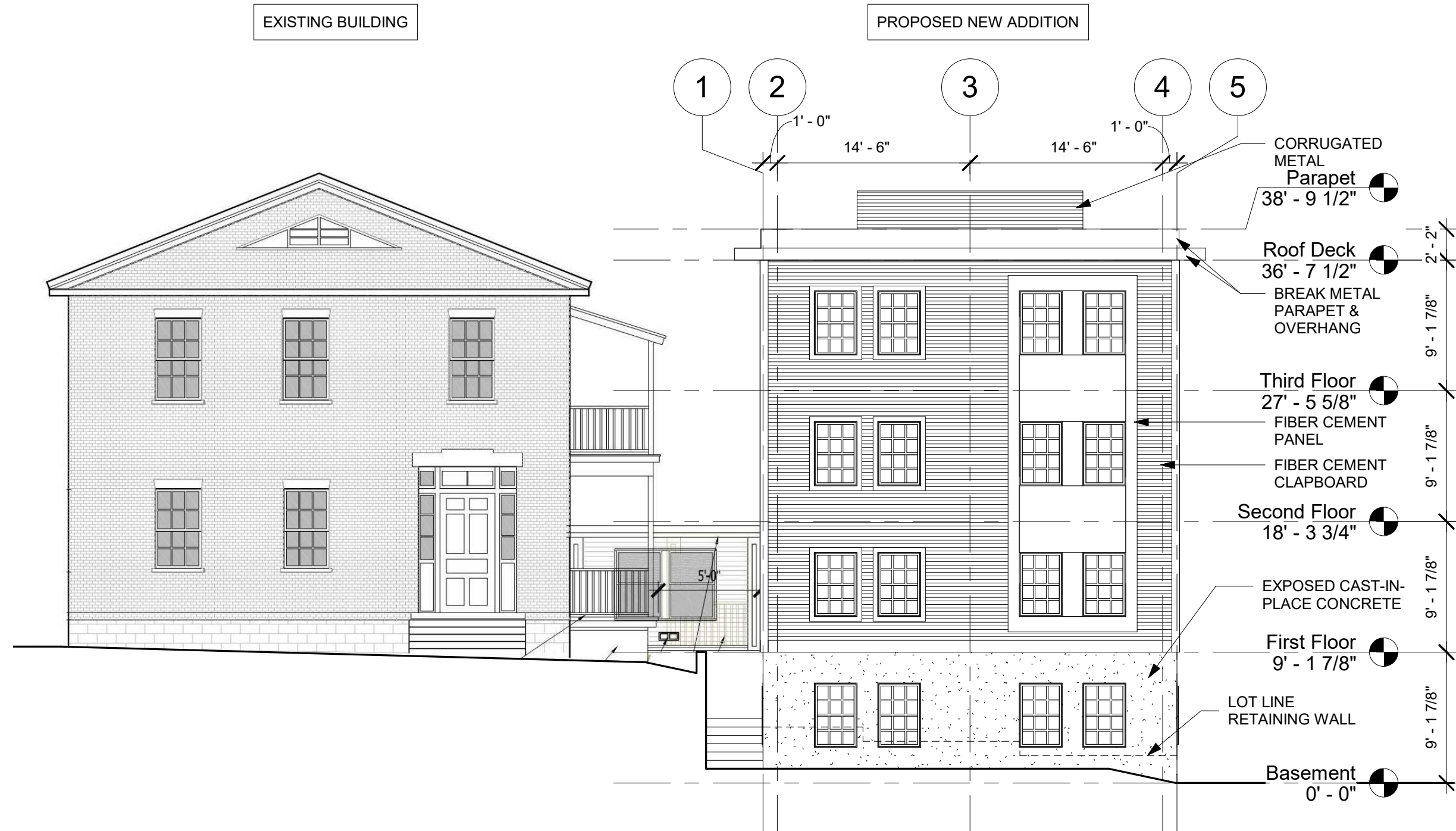
Erosion and Sediment Control Plan

Drawing Number

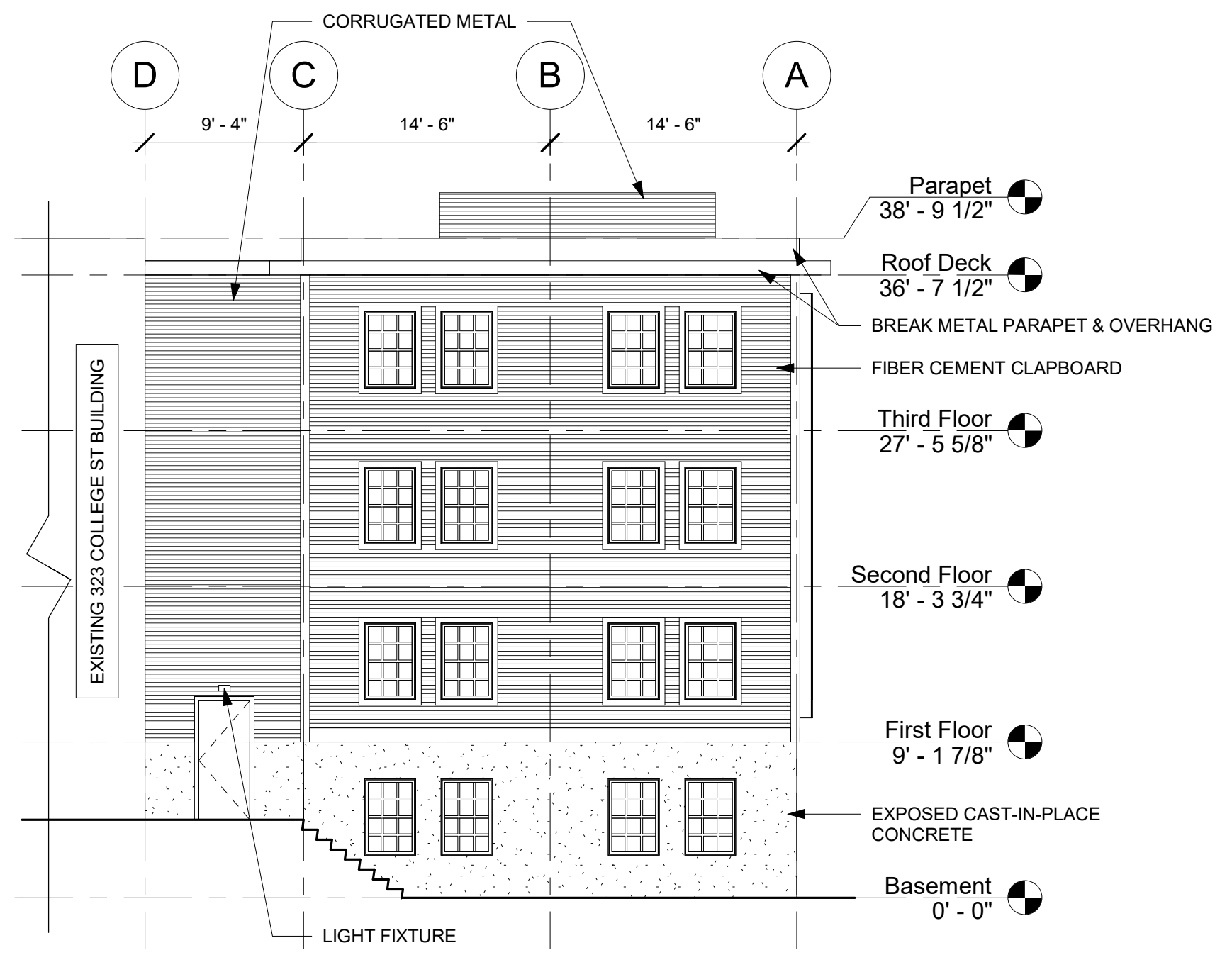
C3.01

Sheet 4 of 5

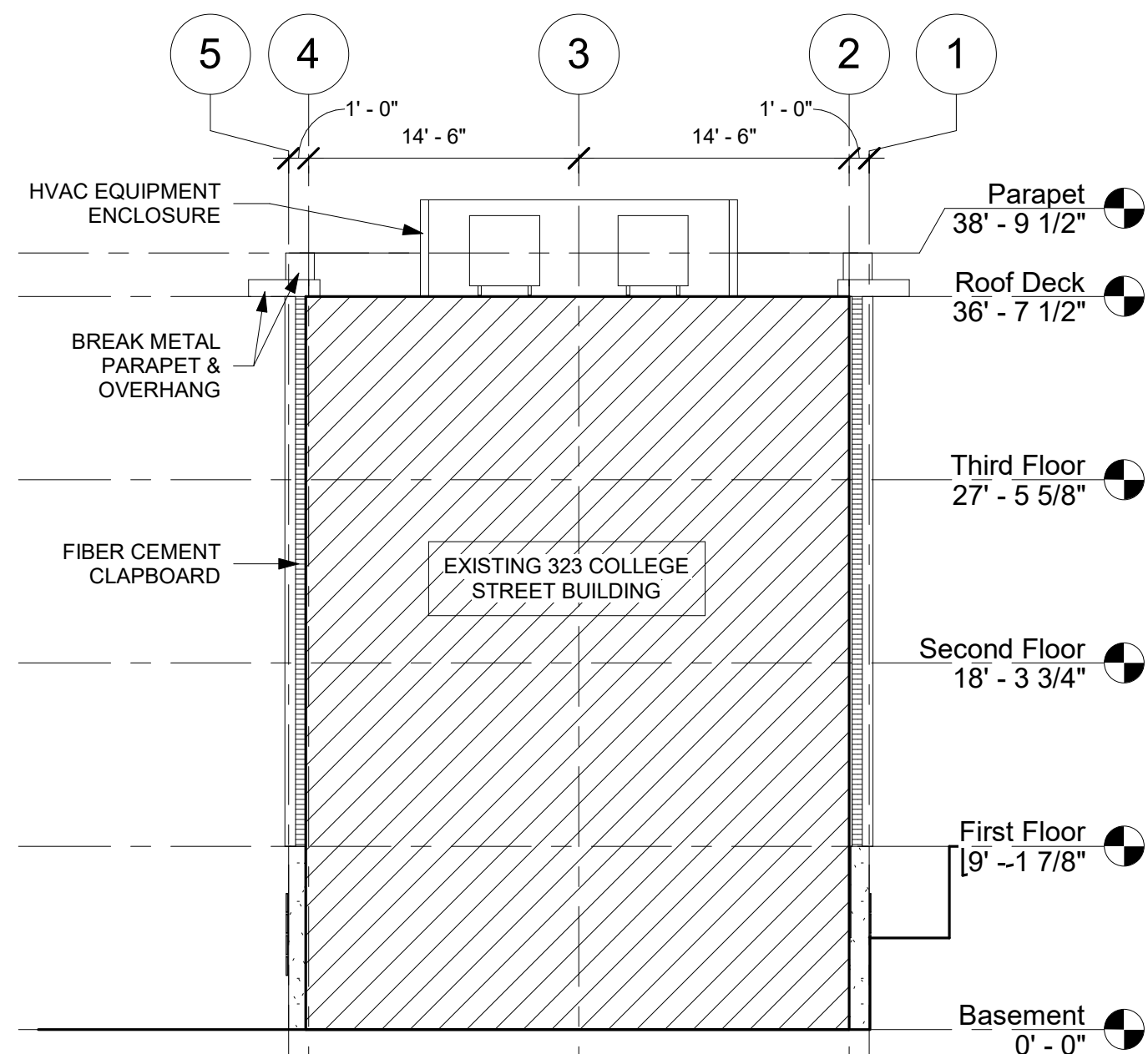
Project Number
57970 00



1 North Elevation
1/8" = 1'-0"



2 East Elevation
1/8" = 1'-0"



3 South Elevation
1/8" = 1'-0"



4 West Elevation
1/8" = 1'-0"

No.	Description	Date
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Greencastle LLC

323 College Street

Elevations

Project number :	202002
Date :	15 June 2020
Drawn by :	DLG
Checked by :	DLG
Project Phase :	Zoning Permit

A200

Scale : 1/8" = 1'-0"

HardiePlank®

Thickness 5/16 in

Length 12 ft planks

SELECT CEDARMILL® & SMOOTH

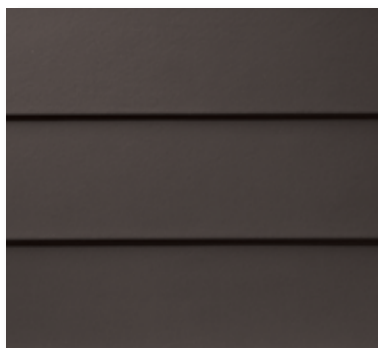
Width	5.25 in	6.25 in	7.25 in	8.25 in
Exposure	4 in	5 in	6 in	7 in
Prime Pcs/Pallet	360	308	252	230
ColorPlus Pcs/Pallet	324	280	252	210
Pcs/Sq	25.0	20.0	16.7	14.3

SELECT CEDARMILL®



Width	5.25 in	6.25 in	7.25 in	8.25 in
STATEMENT COLLECTION™	✓	✓		
DREAM COLLECTION™	✓	✓	✓	✓
PRIME	✓	✓	✓	✓

SMOOTH



Width	5.25 in	6.25 in	7.25 in	8.25 in
STATEMENT COLLECTION™	✓	✓		
DREAM COLLECTION™	✓	✓	✓	✓
PRIME	✓	✓	✓	✓

BEADED CEDARMILL®



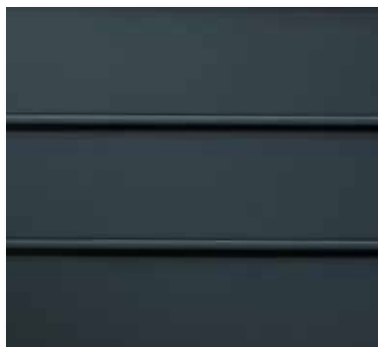
BEADED CEDARMILL® & BEADED SMOOTH

Width	8.25 in
Exposure	7 in
Prime Pcs/Pallet	240
ColorPlus Pcs/Pallet	210
Pcs/Sq	14.3

STATEMENT COLLECTION™	_____
DREAM COLLECTION™	✓
PRIME	✓

FIBER CEMENT
CLAPBOARD SIDING

BEADED SMOOTH



HardiePanel®

Thickness 5/16 in

FIBER CEMENT
PANEL SIDING

SELECT CEDARMILL®, SMOOTH, STUCCO & SIERRA 8

Size	4 ft x 8 ft	4 ft x 10 ft
Prime Pcs/Pallet	50	50
ColorPlus Pcs/Pallet	50	50
Pcs/Sq	3.2	2.5

SELECT CEDARMILL®



Size	4 ft x 8 ft	4 ft x 10 ft
STATEMENT COLLECTION™		✓
DREAM COLLECTION™	✓	✓
PRIME	✓	✓

SMOOTH



Size	4 ft x 8 ft	4 ft x 10 ft
STATEMENT COLLECTION™		✓
DREAM COLLECTION™	✓	✓
PRIME	✓	✓

STUCCO



Size	4 ft x 8 ft	4 ft x 10 ft
STATEMENT COLLECTION™		
DREAM COLLECTION™	✓	✓
PRIME	✓	✓

SIERRA 8

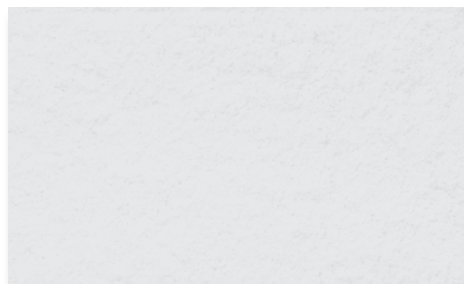


Size	4 ft x 8 ft	4 ft x 10 ft
STATEMENT COLLECTION™		
DREAM COLLECTION™		
PRIME	✓	✓

HardieTrim®

Length 12 ft boards

NT3® BOARDS SMOOTH



FIBER CEMENT
SIDING TRIM

4/4 SMOOTH

Thickness	.75 in				
Width	3.5 in	5.5 in	7.25 in	9.25 in	11.25 in
ColorPlus Pcs/Pallet	312	208	156	104	104

STATEMENT COLLECTION™	✓	✓	✓		✓
DREAM COLLECTION™	✓	✓	✓	✓	✓
PRIME					

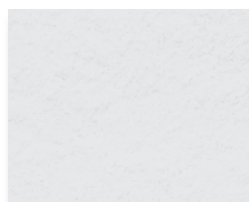
5/4 SMOOTH

Thickness	1 in					
Width	3.5 in	4.5 in	5.5 in	7.25 in	9.25 in	11.25 in
ColorPlus Pcs/Pallet	240	200	160	120	80	80

STATEMENT COLLECTION™	✓	✓	✓	✓		✓
DREAM COLLECTION™	✓	✓	✓	✓	✓	✓
PRIME						

BATTEN BOARDS

SMOOTH



RUSTIC GRAIN®



SMOOTH & RUSTIC GRAIN®

Thickness	.75 in	STATEMENT COLLECTION™	✓
Width	2.5 in	DREAM COLLECTION™	✓
Prime Pcs/Pallet	190	PRIME	✓
ColorPlus Pcs/Pallet	437		

HardieSoffit®

Thickness 1/4 in

VENTED SMOOTH

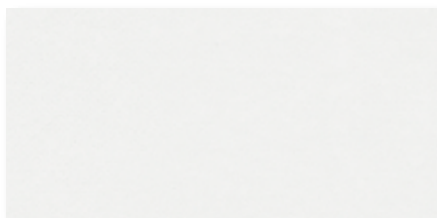


VENTED SELECT CEDARMILL®



ROOF OVERHANG FIBER CEMENT SOFFIT

NON-VENTED SMOOTH



NON-VENTED SELECT CEDARMILL®



BEADED PORCH PANEL



VENTED SMOOTH & SELECT CEDARMILL®

Length	12 ft	12 ft	8 ft
Width	12 in	16 in	24 in
Prime Pcs/Pallet	200	150	100
ColorPlus Pcs/Pallet	216	156	108

Size	12 ft x 12 in	12 ft x 16 in	8 ft x 24 in
STATEMENT COLLECTION™			
DREAM COLLECTION™	✓	✓	✓
PRIME	✓	✓	✓

Size	12 ft x 12 in	12 ft x 16 in	8 ft x 24 in
STATEMENT COLLECTION™			
DREAM COLLECTION™	✓	✓	✓
PRIME			

NON-VENTED SMOOTH & SELECT CEDARMILL®

Length	12 ft	12 ft	8 ft	8 ft
Width	12 in	16 in	24 in	48 in
Prime Pcs/Pallet	200	150	100	50
ColorPlus Pcs/Pallet	216	156	108	—

Size	12 ft x 12 in	12 ft x 16 in	8 ft x 24 in	8 ft x 48 in
STATEMENT COLLECTION™				
DREAM COLLECTION™	✓	✓	✓	
PRIME	✓	✓	✓	✓

Size	12 ft x 12 in	12 ft x 16 in	8 ft x 24 in	8 ft x 48 in
STATEMENT COLLECTION™				
DREAM COLLECTION™	✓	✓	✓	
PRIME				

BEADED PORCH PANEL

Thickness	1/4 in	STATEMENT COLLECTION™	
Length	8 ft	DREAM COLLECTION™	✓
Width	48 in	PRIME	
ColorPlus Pcs/Pallet	50		

CORRUGATED METAL SIDING

Exposed fastener panels provide ultimate flexibility with panels that can be used as exterior or interior walls, roofs or soffits. Exposed fastener panels can be installed in any weather to enable faster scheduling.

FEATURES & BENEFITS

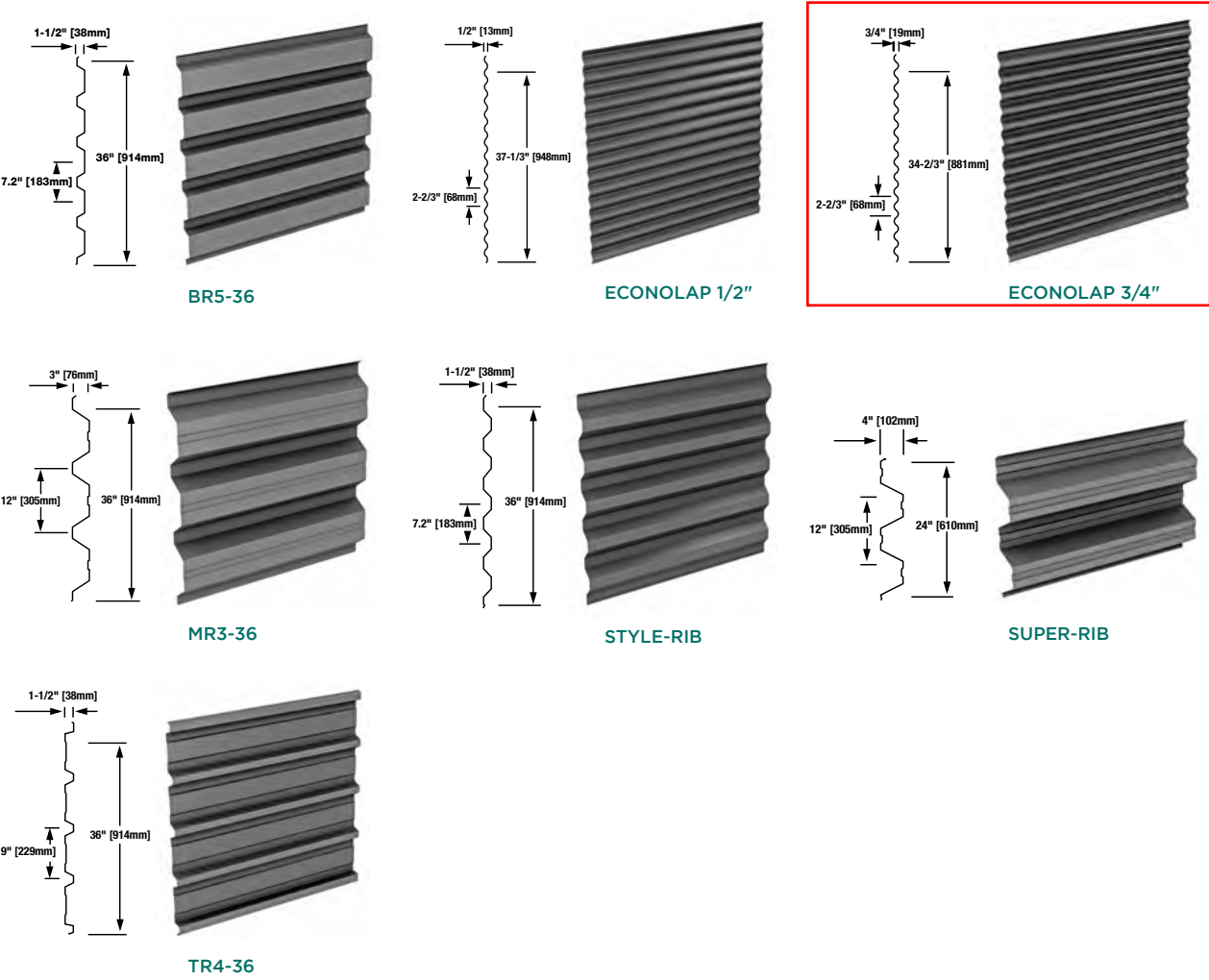
- Extremely versatile panels can be used as exterior or interior walls, roofs and soffits
- Ribs can be run either horizontally or vertically
- May be installed to meet many levels of thermal protection
- Excellent negative wind load properties
- Excellent option for both new construction and retrofit projects
- All-weather installation capability minimizes delays; permits fast-track scheduling
- Panels are available in embossed or smooth finishes

COMPONENT DESCRIPTION

SUBSTRATES	• Standard 24"-18 gauge G-90 galvanized steel • Optional aluminum or stainless steel
SURFACE FINISH	• Smooth or embossed surface texture
PANEL ORIENTATION	• Horizontal or vertical wall installation • Wall and roof installation
PANEL LENGTHS	• Lengths up to 40' [12.2m] for steel panels • Consult CENTRIA for more information.
COATINGS & COLORS	Available in a wide range of coil-coated colors and finishes. See charts on Pages 46-51.

*24-gauge only available in certain profiles. Consult CENTRIA.

EXPOSED FASTENER PANELS

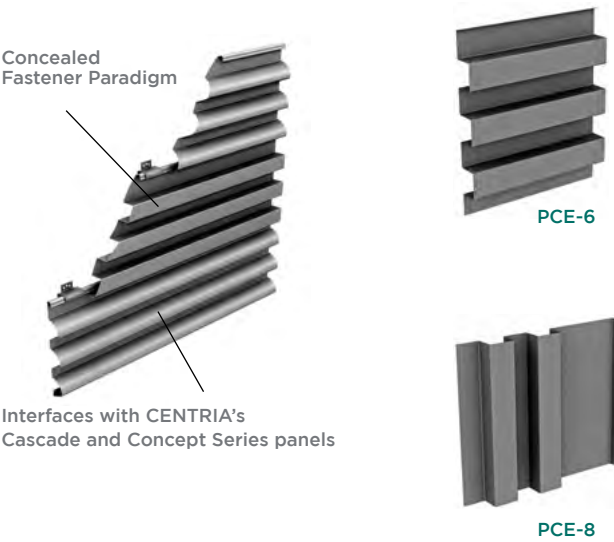


Paradigm makes it possible to create truly unique custom profiles in almost unlimited color and finish options. The result is design flexibility and control, as well as a cost-effective way to add distinctive accents to your next project.

FEATURES & BENEFITS

- Designer-customized panel profile shapes permit variation in design and shadow relief
- Vertical or horizontal installation
- Exposed and concealed fastener options available
- Custom-engineered panels with calculations and Professional Engineer stamps
- State-of-the-art production process ensures crisp and consistent panel fabrication quality
- All-weather installation capability minimizes delays and permits fast-track scheduling
- Unique, project-specific aesthetics and flexibility
- Integrates with CENTRIA Concept Series Concealed fastener panels and horizontal Cascade panels
- More than 85 standard colors and 11 finish options available along with custom color availability
- Our sales team along with a dedicated group of in-house engineers and architects are available to assist in making your product vision a reality

PARADIGM CONCEALED AND EXPOSED FASTENER PANELS



WE MADE IT EASIER AND FASTER TO GET THE METAL FLASHINGS, DRIP EDGES AND TRIM THAT SMART BUILDERS, ROOFERS AND SIDING CONTRACTORS RELY ON MOST.

Flashing, Soffit and Edge Metal

We made it easier and faster to get the metal flashings, drip edges and trim that smart builders, roofers and siding contractors rely on most. No more waiting for an order to arrive from out of state, no more labor-intensive hand-brake work.

Architectural Metal Supply offers standard window and door flashing in thicker-gauge metal than you would find in a hardware or box store, and we offer it in an array of colors. We also offer custom flashing products that accommodate the exterior insulation and rainscreen often required with today's energy-code standards.

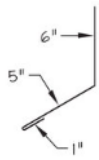


METAL CLADDING
FOR ROOF
PARAPET AND
OVERHANG

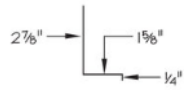
[REQUEST QUOTE](#)[LEARN MORE ABOUT OUR SISTER COMPANY REAP CONSTRUCTION](#)

ARCHITECTURAL METAL SUPPLY, 102 WILLIS FARM ROAD, RICHMOND, VT 05477,
USA (802) 434-3435 INFO@ARCHMETSUPPLY.COM

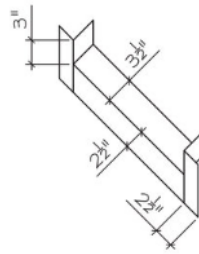




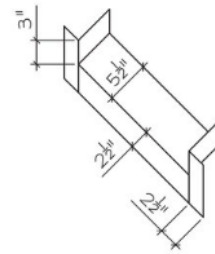
Apron Flashing



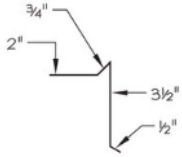
Deck Ledger



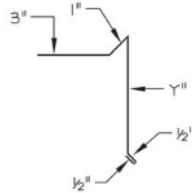
Door Pan - 2x4 Wall



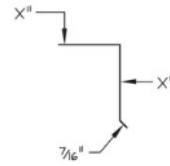
Door Pan - 2x6 Wall



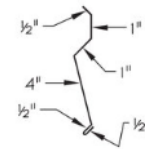
Gravel Stop



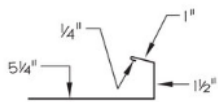
Gravel Stop 2



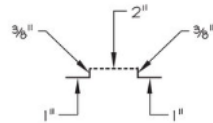
Hook Strip or Cleat



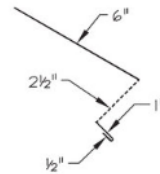
Mount Reglet



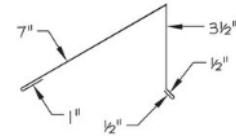
Rain Diverter



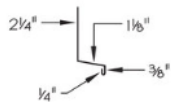
Soffit Vent



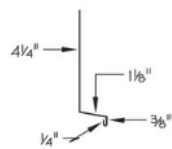
Vented Drip Edge



Vertical Ridge



4" Window Flashing



6" Window Flashing

ESSENTIAL DOUBLE HUNG

Previously known as Integrity All Ultrex Double Hung



Features of the Essential Double Hung Window

- Available in heights up to 6.5 feet or widths up to 4 feet
- Durable and low-maintenance material to the interior and exterior
- Low-profile, easy to operate locking mechanism
- Insert replacement option is available to fit seamlessly into existing window openings
- Top and bottom sash tilt and remove easily for maintenance/cleaning

ENERGY DATA	U-FACTOR	SHGC	VT	ENERGY STAR
Insulated Glass - Low E3 - Argon	0.29	0.22	0.51	NC, SC, S
Insulated Glass - Low E3 - Argon - GBG	0.29	0.20	0.46	NC, SC, S
Insulated Glass - Low E3 - Air	0.33	0.23	0.51	S
Insulated Glass - Low E3 - Air - GBG	0.33	0.20	0.46	S
Insulated Glass - Low E2 - Air - GBG	0.34	0.30	0.51	
Insulated Glass - Low E2 - Argon	0.30	0.33	0.57	NC
Insulated Glass - Low E3 / Low ERS - Argon	0.25	0.22	0.50	N, NC, SC, S
Insulated Glass - Low E3 / Low ERS - Argon - GBG	0.25	0.20	0.45	N, NC, SC, S
Insulated Glass - Low E1 - Argon	0.31	0.55	0.63	
Insulated Glass - Low E1 - Argon - GBG	0.31	0.49	0.56	
Insulated Glass - Low E1 - Air	0.34	0.54	0.63	
Insulated Glass - Low E1 - Air - GBG	0.34	0.49	0.56	
Insulated Glass - Low E3 / Low ERS - Air	0.28	0.22	0.50	NC, SC, S
Insulated Glass - Low E3 / Low ERS - Air - GBG	0.28	0.20	0.45	NC, SC, S
Insulated Glass - Low E2 - Argon - GBG	0.30	0.30	0.51	NC
Insulated Glass - None - Air	0.48	0.62	0.65	

Unit Features

Essential Double Hung: ESDH

For applicable certification and code information, refer to the Introduction and Product Performance chapter.

Frame and Sash:

- The frame and sash exteriors are made of Ultrex®, an advanced fiber reinforced material that is resistant to thermal conductance.
- Exterior colors: Stone White, Pebble Gray, Bronze, Evergreen, Cashmere, or Ebony.
- Interior coating meets all the requirements in Stone White, Bronze, Ebony.
- Split finishes are not available on Dark Interior option. Only Bronze interior/Bronze exterior and Ebony interior/Ebony exterior combinations are available for dark interior options.

Frame:

- Composite frame thickness is 1 3/8", (35). Frame width is 3 3/32", (79). Flat bottom sill with 11 degree bevel. Ultrex is .065"-070" (2) thick.

Sash:

- Composite sash thickness is 15/16" (24). Ultrex is .065" - .070" (2) thick. Sash can be replaced by cannot be re-glazed.
- Cottage style unit: Sash divided 2/5 over 3/5.
- Oriel style unit: Sash divided 3/5 over 2/5.

Jamb Extension:

- 2" (51) is standard
- 4 9/16" (116) and 6 9/16" (167) maintenance free jamb extension available
- Available in Stone White, Bronze, or Ebony. Default color will match the unit interior selection. Stone White jamb extension is available for all unit interior color selections.

Hardware:

- Balance system is a coil spring block and tackle system
 - Nylon cord and steel locking shoe
- High pressure zinc die cast check rail lock and keeper.
 - Lock employs a cam-lock mechanism
 - Two locks on rough openings over 30" (762) wide
- Cam Lock, Keeper and Fastener Default Color: Stone White for Stone White Interior, Oil Rubbed Bronze for Bronze Interior, Matte Black for Ebony Interior.
 - Optional Stone White, Almond Frost, Brass, Satin Nickel, Matte Black, and Oil Rubbed Bronze hardware finishes available
- Tilt Latches, Top Sash Pull and Sash Lift will match the unit interior color (Stone White, Bronze or Ebony).
- Bottom Sash employs tilt latches to allow for easy tilting of sash
- Optional factory applied Window Opening Control Device is available in Black or White color finish.
(min size: 17 27/32" (453) x 24" (610) - max size: 36" (914) x 71 1/8" (1807))
- ABS sash travel limiter is available for field application in Beige color finish with Stone White or Matte Black screws.
- Non-operable lock is available for field application. Available colors: Stone White, Almond Frost, Brass, Oil Rubbed Bronze, Satin Nickel, Matte Black.

Installation:

- Factory applied folding nailing fin
- Optional through jamb installation method with brackets
- Factory supplied mulling kits are available for standard assemblies

Glazing:

- Dual-pane units are manufactured with an 11/16" (17) IG with Low E2, E3, E1, E3/ERS, or no coating including argon gas or air fill.
- Tempered glass and/or obscure glass, and California Fire glass (annealed exterior and tempered interior glazing configuration) are available as an option.
- The glazing seal is a silicone bedding on the exterior surface, and vinyl glazing seal on the interior surface.
- The perimeter spacer default color is mill finish (stainless). An optional black perimeter spacer color is available for all unit interior color selections.
- STC/OITC values are available for 3.1 mm thickness glass.
 - Optional 3.1/4.7 STC/OITC Upgrade glass is available. See the Product Performance chapter for STC and OITC ratings.
- Decorative glass options include frost, glue chip, rain, reed, narrow reed and tinted (bronze, gray or green).
 - Decorative glass is not available with Low E3/ERS or STC/OITC.

Unit Features Continued**Weather Strip:**

- Sill is foam filled vinyl bulb. Color: Beige for Stone White interior, Black for Bronze and Ebony interiors.
- Bottom sash is sealed to the jambs using foam filled vinyl bulb. Color: beige for Stone White interior, black for Bronze and Ebony interiors.
- Top sash is sealed to the jambs using a hollow vinyl bulb. Color: stone white rigid/bulb for Stone White interior, black rigid/bulb for Ebony interior and Bronze rigid/black bulb for Bronze interior.
- Check rails are sealed using rigid vinyl with flexible seal. Top sash check rail cover is beige for Stone White interior and black for Bronze and Ebony interiors. Bottom sash check rail cover will match the unit interior color (Stone White, Bronze or Ebony).

Screen:

- Roll formed aluminum frame with corner key construction
- Available in finish to match the exterior Ultrex frame color
- Charcoal color fiberglass (non-corrosive) screen cloth.
- Spring loaded pins for installation.
- Available in standard full screen or optional half screen

NOTE: Screen bar added when frame OM (height) is equal to or greater than 47 1/2" (1207)

Grilles-Between-The-Glass (GBG):

- 11/16" (17) contoured aluminum bar placed between two panes of glass
- Pattern: Standard rectangular pattern, optional 6 or 9 lite Prairie cut, or Cottage style cut on Double Hung
- Exterior Colors: Stone White, Pebble Gray, Bronze, Evergreen, Cashmere, or Ebony
- Interior Colors: Stone White, Bronze or Ebony (matches unit interior color).
- Not available with tinted glass.

Accessories:

- Field Applied: J-Channel, a 1" (25) or 3" (76) frame expander, Flush Fin installation kit
- Factory Applied: Sheet rock return for 1/2" (13) or 5/8" (16) drywall, a 3/4" (19) receiver, a frame filler or a flush fin.
- Sheet rock return and 3/4" receiver color options: Stone White, Bronze or Ebony. Default color will match unit interior selection. Stone White sheet rock return and 3/4" receiver are available for all unit interior color selections.
- General Mull kits are available for field assembly

Exterior Casing:

- Non-integral to the unit
- Fastened to the exterior wall with barb and kerf: 2" brick mould as a full surround or with sill nosing
- 3 1/2" flat casing available as full surround or with sill nosing
- Available with 1" ranch style and header overhang

NOTE: NFRC Values are now located on www.marvin.com

ENERGY STAR® Program - United States

www.energystar.gov

About ENERGY STAR®

ENERGY STAR® is a joint program of the U.S. Environmental Protection Agency and the U.S. Department of Energy helping us all save money and protect the environment through energy efficient products and practices.

Residential Windows, Doors and Skylights

Thanks to advances in technology, today's ENERGY STAR® qualified windows, doors, and skylights offer greater savings than ever before. Just look for the ENERGY STAR® label.

Save energy and money.

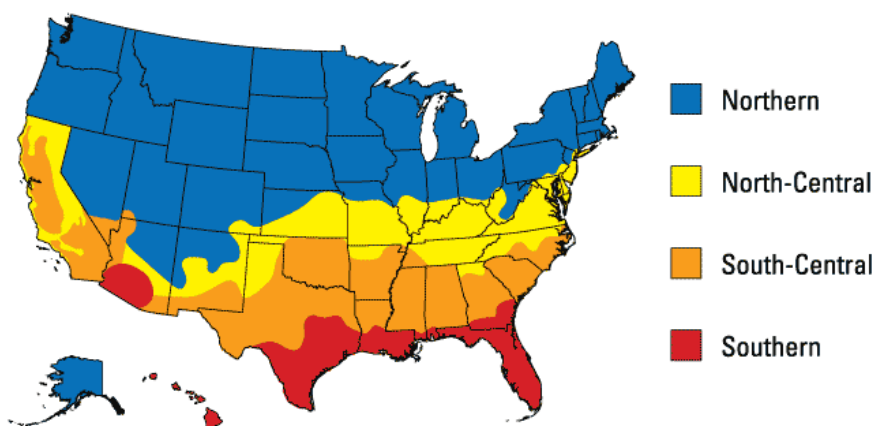
Replacing old windows with ENERGY STAR® qualified windows lowers household energy bills. Lower energy consumption also reduces greenhouse gas emissions from power plants and shrinks a house's carbon footprint.

Current Specification Effective Date: January 1, 2016

As of January 1, 2016, ENERGY STAR® qualified windows, doors, and skylights meet new performance levels, see below.

Windows and skylights must meet NFRC U-Factor and, where applicable, Solar Heat Gain Coefficient (SHGC) requirements based on climate zone. Doors must meet U-Factor and, where applicable, SHGC requirements based on glazing level (amount of glass).

At this time, most Marvin product lines qualify for the ENERGY STAR® program. For more specific information, please refer to the individual product sections in your Marvin catalog.



WINDOWS			
CLIMATE ZONE	U-FACTOR ¹	SHGC ²	
Northern	≤ 0.27	Any	Prescriptive
	≥ 0.28	≥ 0.32	Equivalent Energy Performance
	≥ 0.29	≥ 0.37	
	≥ 0.30	≥ 0.42	
North Central	≤ 0.30	≤ 0.40	
South Central	≤ 0.30	≤ 0.25	
Southern	≤ 0.40	≤ 0.25	

DOORS			
GLAZING LEVEL	U-FACTOR ¹	SHGC ²	
Opaque	≤ 0.17	No Rating	
≤ ½-Lite	≤ 0.25	≤ 0.25	
> ½-Lite	≤ 0.30	Northern North-Central	≤ 0.40
		Southern South-Central	≤ 0.25

ENERGY STAR® Most Efficient - United States

The ENERGY STAR® Most Efficient mark is an extension of the ENERGY STAR® brand and is designed to recognize and advance the most efficient products among those that qualify for ENERGY STAR®. This recognition is for specific categories and awarded for a specific year.

Marvin has long been a leader in providing our customers with energy efficient options. We are pleased to announce that Marvin meets the US ENERGY STAR® Most Efficient criteria with over 50 product types and 13,000+ glazing options.

MOST EFFICIENT CRITERIA

Energy Star Zone	U-factor	SHGC
Northern	≤ 0.20	≥ 0.20
North-Central	≤ 0.20	≤ 0.40
South-Central	≤ 0.20	≤ 0.25
Southern	≤ 0.20	≤ 0.25

As more product and glazing options are certified throughout the year, additional qualifying options will become available. The EPA has set up a page on its website where consumers can go to find all of the Marvin options that meet the Most efficient criteria.

To view the latest listing for [casement windows](#)

To view the latest listing for [horizontal sliding windows](#)

To view the latest listing for [vertical sliding windows](#)

To view the latest listing for [fixed windows](#)



IO (mm)	1' - 6" (457)	2' - 0" (610)	2' - 6" (762)	2' - 8" (813)	3' - 0" (914)	3' - 6" (1067)	4' - 0" (1219)
RO (mm)	1' - 6" (457)	2' - 0" (610)	2' - 6" (762)	2' - 8" (813)	3' - 0" (914)	3' - 6" (1067)	4' - 0" (1219)
FS (mm)	1' - 5 1/2" (445)	1' - 11 1/2" (597)	2' - 5 1/2" (749)	2' - 7 1/2" (800)	2' - 11 1/2" (902)	3' - 5 1/2" (1054)	3' - 11 1/2" (1207)
DLO (mm)	12 9/16" (319)	18 9/16" (471)	24 9/16" (624)	26 9/16" (675)	30 9/16" (776)	36 9/16" (929)	42 9/16" (1081)
2' - 11 3/4" (908) 3' - 0" (914) 2' - 5 3/4" (756) 2' - 6" (762) 2' - 5 1/2" (749) 11 5/16" (287)	 ESDH1620	 ESDH2020	 ESDH2620	 ESDH2820	 ESDH3020	 ESDH3620	 ESDH4020
3' - 5 3/4" (908) 3' - 0" (914) 3' - 6" (1067) 3' - 5 1/2" (1054) 17 5/16" (440)	 ESDH1626	 ESDH2026	 ESDH2626	 ESDH2826	 ESDH3026	 ESDH3626	 ESDH4026
4' - 11 3/4" (1213) 4' - 0" (1219) 3' - 11 1/2" (1207) 20 5/16" (516)	 ESDH1630	 ESDH2030	 ESDH2630	 ESDH2830	 ESDH3030	 ESDH3630	 ESDH4030
4' - 5 3/4" (1365) 4' - 6" (1372) 4' - 5 1/2" (1359) 23 5/16" (592)	 ESDH1636	 ESDH2036	 ESDH2636	 ESDH2836	 ESDH3036	 ESDH3636	 ESDH4036
5' - 11 3/4" (1518) 5' - 0" (1524) 4' - 11 1/2" (1511) 26 5/16" (668)	 ESDH1640	 ESDH2040	 ESDH2640	 ESDH2840	 ESDH3040	 ESDH3640	 ESDH4040
5' - 5 3/4" (1670) 5' - 6" (1676) 5' - 5 1/2" (1664) 29 5/16" (744)	 ESDH1646	 ESDH2046	 ESDH2646	 ESDH2846	 ESDH3046	 ESDH3646	 ESDH4046
6' - 11 3/4" (1822) 6' - 0" (1829) 5' - 11 1/2" (1816) 32 5/16" (821)	 ESDH1650	 ESDH2050	 ESDH2650	 ESDH2850	 ESDH3050 E	 ESDH3650 E	 ESDH4050 E
6' - 5 3/4" (1975) 6' - 6" (1981) 6' - 5 1/2" (1969) 35 5/16" (897)	 ESDH1656	 ESDH2056	 ESDH2656	 ESDH2856	 ESDH3056 E	 ESDH3656 E	 ESDH4056 E
	 ESDH1660	 ESDH2060	 ESDH2660 E	 ESDH2860 E	 ESDH3060 E	 ESDH3660 E	 ESDH4060 E
	 ESDH1666	 ESDH2066	 ESDH2666 E	 ESDH2866 E	 ESDH3066 E	 ESDH3660 E	 ESDH4066 E

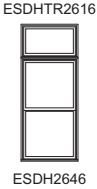
MARVIN ESSENTIAL™ COLLECTION

DOUBLE HUNG - Transoms and Multiple Assemblies

Transom Muller Over Double Hung

MO (mm)	2' - 6" (762)
RO (mm)	2' - 6" (762)
FS (mm)	2' - 5 1/2" (749)

5' - 11 3/4" (1822)
6' - 0" (1829)
5' - 11 1/2" (1816)



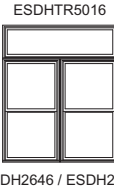
ESDHTR2616

ESDH2646

Transom Muller Over Double Hung 2 Wide

MO (mm)	5' - 0" (1524)
RO (mm)	5' - 0" (1524)
FS (mm)	4' - 11 1/2" (1511)

5' - 11 3/4" (1822)
6' - 0" (1829)
5' - 11 1/2" (1816)



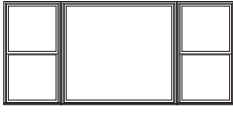
ESDHTR5016

ESDH2646 / ESDH2646

Double Hung Flankers with Center Picture*

MO (mm)	10' - 0" (3048)
RO (mm)	10' - 0" (3048)
FS (mm)	9' - 11 1/2" (3035)

4' - 5 3/4" (1365)
4' - 6" (1372)
4' - 5 1/2" (1359)



ESDH2646 / ESDHP5046 / ESDH2646

Double Hung Flankers with Center Operator

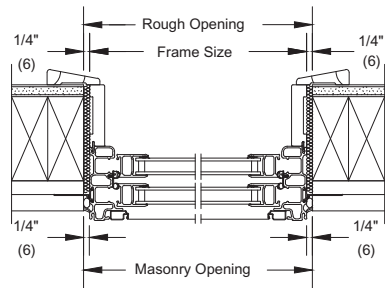
MO (mm)	7' - 6" (2286)
RO (mm)	7' - 6" (2286)
FS (mm)	7' - 5 1/2" (2273)

4' - 5 3/4" (1365)
4' - 6" (1372)
4' - 5 1/2" (1359)

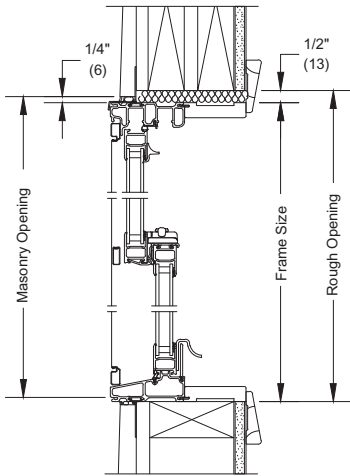


ESDH2646 / ESDH2646 / ESDH2646

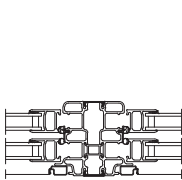
Construction Details



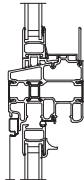
Jambs



Head Jamb
& Sill



Vertical Mullion



Horizontal Mullion
Transom/Operator

* This product is only available field muller.

Details and Elevations not to scale.

Available in equal, cottage, and reverse cottage sash configurations. Cottage and reverse cottage sash configurations are not available on 20, 60, and 66 call number heights.

Obscure Glass option available on all units.

Special sized units available within product size matrix. See your Marvin retailer.

Units may optionally include a window opening control device tested to ASTM F2090-10, which can be released from the inside without the use of a key, tool, special knowledge, or force greater than that required for normal unit operation.

See page 52 for specific PG Ratings.

For further details and drawings visit the 'Tools and Documents' section at Marvin.com.

MULTIPLE ASSEMBLIES

Multiple assemblies can be factory muller.

MAXIMUM ROUGH OPENING not to exceed 114" x 78". Maximum up to 6 units wide by 1 unit high.

MAXIMUM ROUGH OPENING not to exceed 96" x 96". Maximum up to 5 units wide by 5 units high.

Field mull kits are available. Structural mullion reinforcement is required for some assemblies.

Please consult your local Marvin representative for more information.



HEAT PUMPS

Feel the possibilities.
Cooling & Heating Solutions
from Mitsubishi Electric

Comfort | Efficiency | Health



**MITSUBISHI
ELECTRIC**
COOLING & HEATING

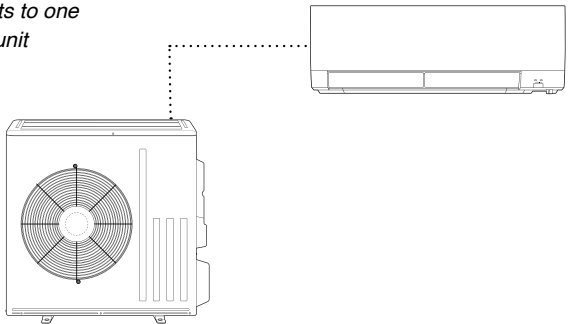
Banyan Photography



Single-zone System

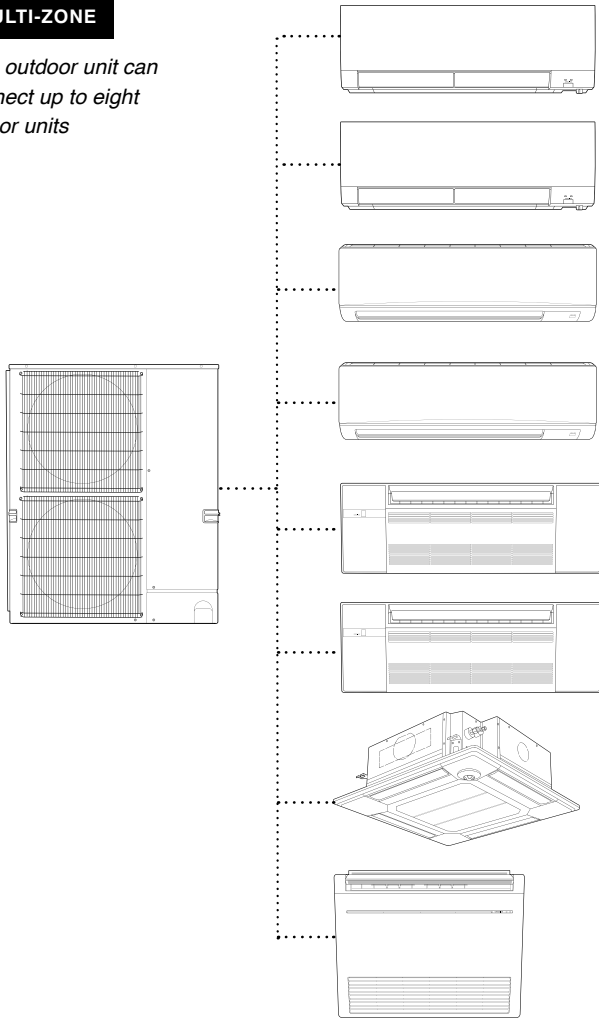
SINGLE-ZONE

One outdoor unit connects to one indoor unit



MULTI-ZONE

One outdoor unit can connect up to eight indoor units



Outdoor units and indoor units are available in single-zone and multi-zone versions.

With single-zone equipment, one outdoor unit connects to one indoor unit (see pages 18-25 for indoor units available). This option is ideal if you only need cooling and heating in a single space.

With multi-zone equipment, one outdoor unit can connect up to eight indoor units. This option is perfect if you need cooling and heating in multiple spaces with different functions, such as a nursery versus a kitchen or an office versus a conference room.

Each zone is served by its own indoor unit. Indoor units come in a variety of forms including wall-mounted units, floor-mounted units, ceiling cassettes and air handlers.

Wall-mounted units tend to be the most popular, but a floor-mounted unit could be an attractive option for a sunroom that has windows, but no wall space. A high-performance air handler could replace an older system, such as a central system or boiler that previously cooled or heated an open space.

Which outdoor unit is right for me?

Say goodbye to the noisy outdoor units of conventional systems. Our outdoor units operate as low as 46 decibels — the level of a typical conversation. Each unit has a space-saving compact design and is available in a variety of sizes to suit different cooling and heating requirements.

Single-Zone

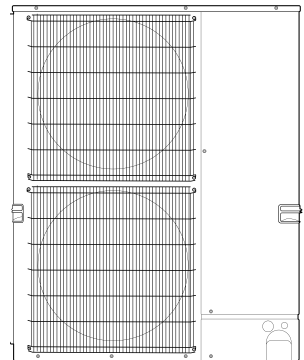
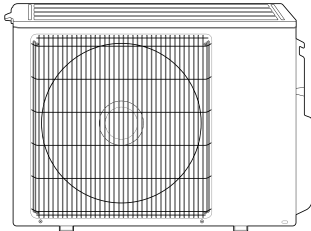
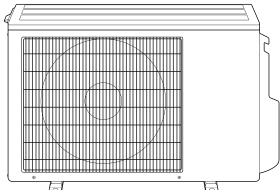
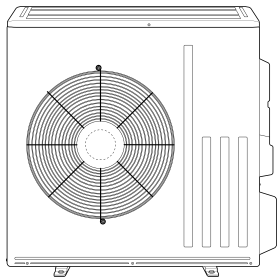
Available as a cooling only, heat pump or a hyper-heating heat pump, each outdoor unit connects to a single indoor unit through refrigerant lines. These outdoor units have INVERTER-driven compressors that only use the precise amount of energy needed to keep the space comfortable.

Multi-Zone

Available as a heat pump or an H2i® hyper-heating heat pump, each outdoor unit is capable of connecting up to eight indoor units. These outdoor units have INVERTER-driven compressors that only use the precise amount of energy needed to keep the space comfortable.



Photos © 2018 Scripps Networks, LLC. Used with permission; all rights reserved.



Multi-zone System



LED 10W & 13 Wallpacks. Patent Pending thermal management system. 100,000 hour L70 lifespan. 5 Year Warranty.

Color: Bronze

Weight: 3.3 lbs

Project:
Pine and Flynn

Type:
C

Prepared By:
A. Murphy

Date:
06/28/16

Driver Info

Type: Constant Current
120V: 0.13A
208V: 0.08A
240V: 0.07A
277V: 0.06A
Input Watts: 15W
Efficiency: 87%

LED Info

Watts: 13W
Color Temp: 4000K
Color Accuracy: 83 CRI
L70 Lifespan: 100000
Lumens: 673
Efficacy: 45 LPW

Technical Specifications

Listings

UL Listing:

Suitable for Wet Locations as a Downlight. Suitable for Damp Locations as an Uplight. Wall Mount only. Suitable for Mounting within 4ft. of ground.

Dark Sky Approved:

The International Dark Sky Association has approved this product as a full cutoff, fully shielded luminaire.

IESNA LM-79 & IESNA LM-80 Testing:

RAB LED luminaires have been tested by an independent laboratory in accordance with IESNA LM-79 and 80, and have received the Department of Energy "Lighting Facts" label.

Optical

Lumen Maintenance:

100,000-hour LED lifespan based on IES LM-80 results and TM-21 calculations.

Fixture Efficacy:

44.6 Lumens per Watt

Lumen Maintenance:

The LED will deliver 70% of its initial lumens at 100,000 hours of operation.

BUG Rating:

B1 U0 G0

Construction

Cold Weather Starting:

The minimum starting temperature is -40°F/-40°C.

Ambient Temperature:

Suitable for use in 50°C (122°F) ambient temperatures.

Finish:

Our environmentally friendly polyester powder coatings are formulated for high-durability and long-lasting color, and contains no VOC or toxic heavy metals.

Green Technology:

RAB LEDs are Mercury and UV free.

For use on LEED Buildings:

IDA Dark Sky Approval means that this fixture can be used to achieve LEED Credits for Light Pollution Reduction.

Gaskets:

High Temperature Silicone.

Electrical

Driver:

Multi-chip 13W high output long life LED Driver Constant Current, Class 2 100V - 277V, 50/60 Hz.

Surge Protection:

4KV

LED Characteristics

Color Temperature (Nominal CCT):

4000K

Color Accuracy:

86 CRI

Color Consistency:

3-step MacAdam Ellipse binning to achieve consistent fixture-to-fixture color.

Color Stability:

LED color temperature is warrantied to shift no more than 200K in CCT over a 5 year period.

Color Uniformity:

RAB's range of CCT (Correlated color temperature) follows the guidelines of the American National Standard for Specifications for the Chromaticity of Solid State Lighting (SSL) Products, ANSI C78.377-2015.

Other

Patents:

The design of the LPACK is protected by U.S. Pat. D604,004 and patents pending in Canada, China and Taiwan.

California Title 24:

See WPLED13/PC for a 2013 California Title 24 compliant model.

Warranty:

RAB warrants that our LED products will be free from defects in materials and workmanship for a period of five (5) years from the date of delivery to the end user, including coverage of light output, color stability, driver performance and fixture finish.

Equivalency:

The WPLED13 is Equivalent in delivered lumens to a 100W Metal Halide Wallpack.

HID Replacement Range:

The WPLED13 can be used to replace 70-150W Metal Halide Wallpacks based on delivered lumens.

Country of Origin:

Designed by RAB in New Jersey and assembled in the USA by RAB's IBEW Local 3 workers.

Technical Specifications (continued)

Other

Buy American Act Compliant:

This product is a COTS item manufactured in the United States, and is compliant with the Buy American Act.

Recovery Act (ARRA) Compliant:

This product complies with the 52.225-21 "Required Use of American Iron, Steel, and Manufactured Goods-- Buy American Act-- Construction Materials (October 2010).

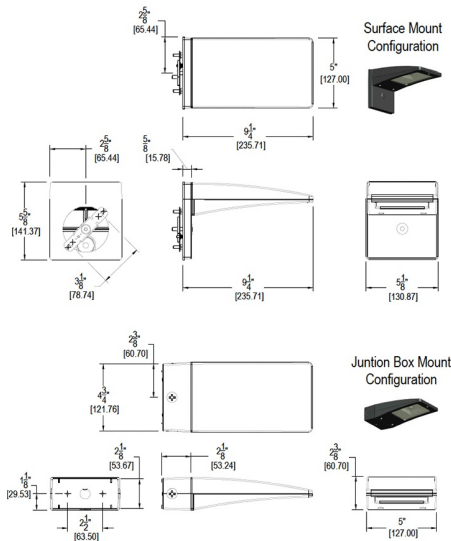
Trade Agreements Act Compliant:

This product is a COTS item manufactured in the United States, and is compliant with the Trade Agreements Act.

GSA Schedule:

Suitable in accordance with FAR Subpart 25.4.

Dimensions



Features

- High performance LED light engine
- Maintains 70% of initial lumens at 100,000 hours
- Weatherproof high temperature silicone gaskets
- Superior heat sinking with die cast aluminum housing and external fins
- 5-year warranty

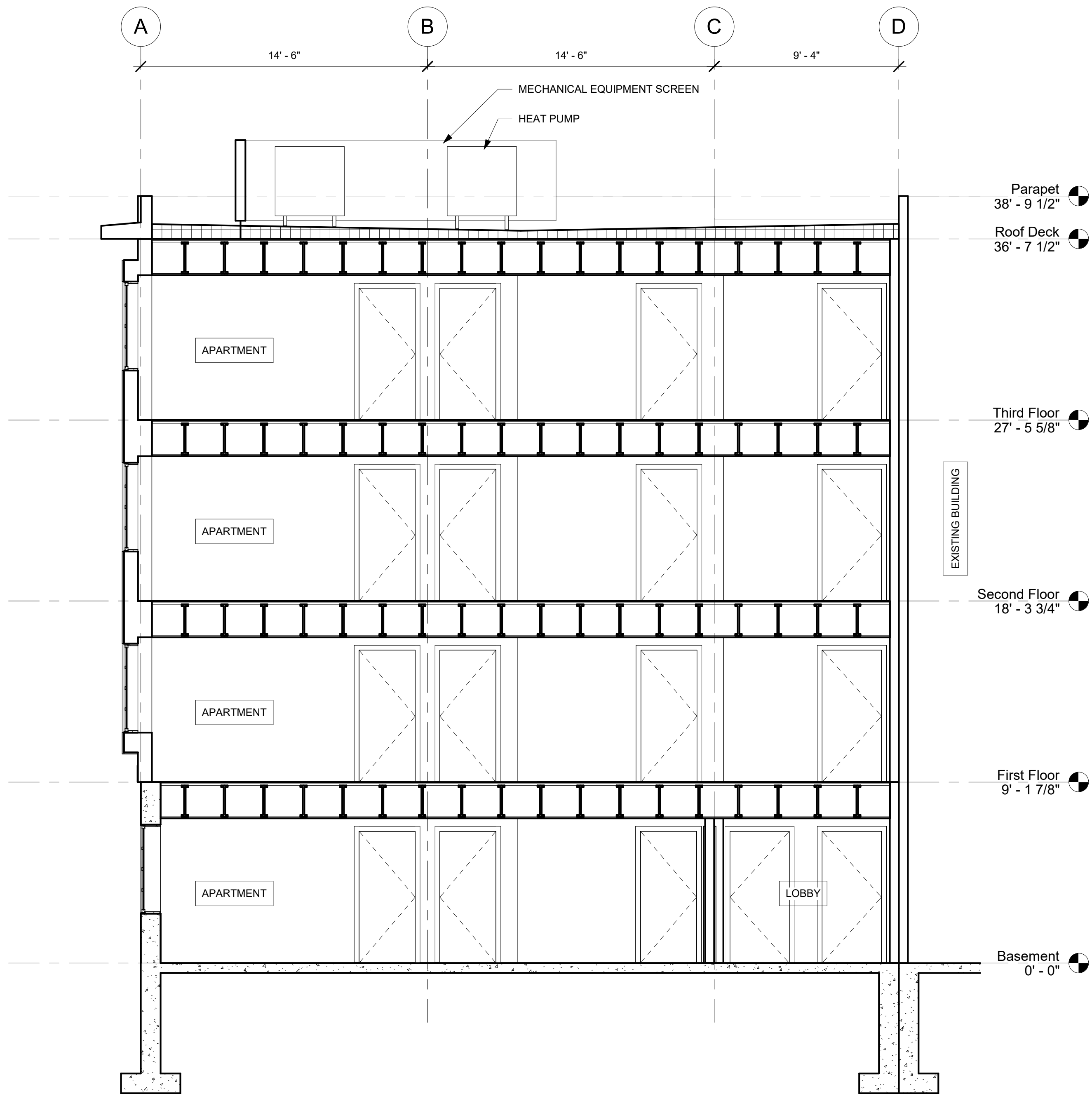
Ordering Matrix

Family	Watts	Color Temp	Sensor	Surface Plate	Surface Place	Finish	Photocell
WPLED							
	10 = 10W	= 5000K (Cool)	= No Sensor	= No Surface Plate	S = Surface Plate	= Bronze	= No Photocell
	13 = 13W	Y = 3000K (Warm)	MS = Mini Sensor			W = White	/PC = 120V Button
		N = 4000K (Neutral)					/PCS = 120V Swivel
							/PC2 = 277V Button

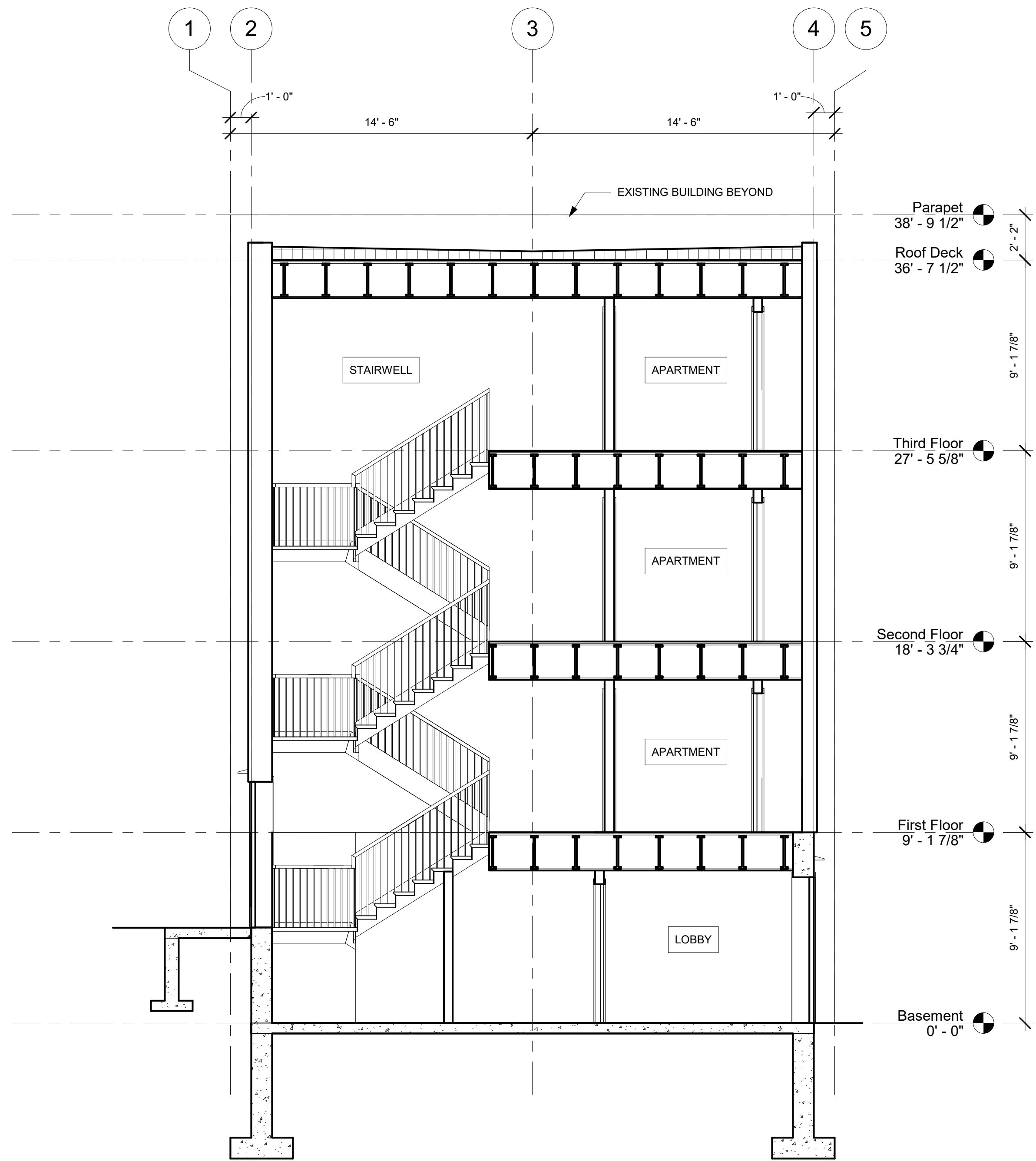


Daniel Goltzman Design & Development

119 Caroline Street
Burlington, Vermont 05401
646-957-4248



① North-South Section
1/4" = 1'-0"



② Section Through Stairwell
1/4" = 1'-0"

No.	Description	Date
-----	-------------	------

Greencastle LLC

323 College Street

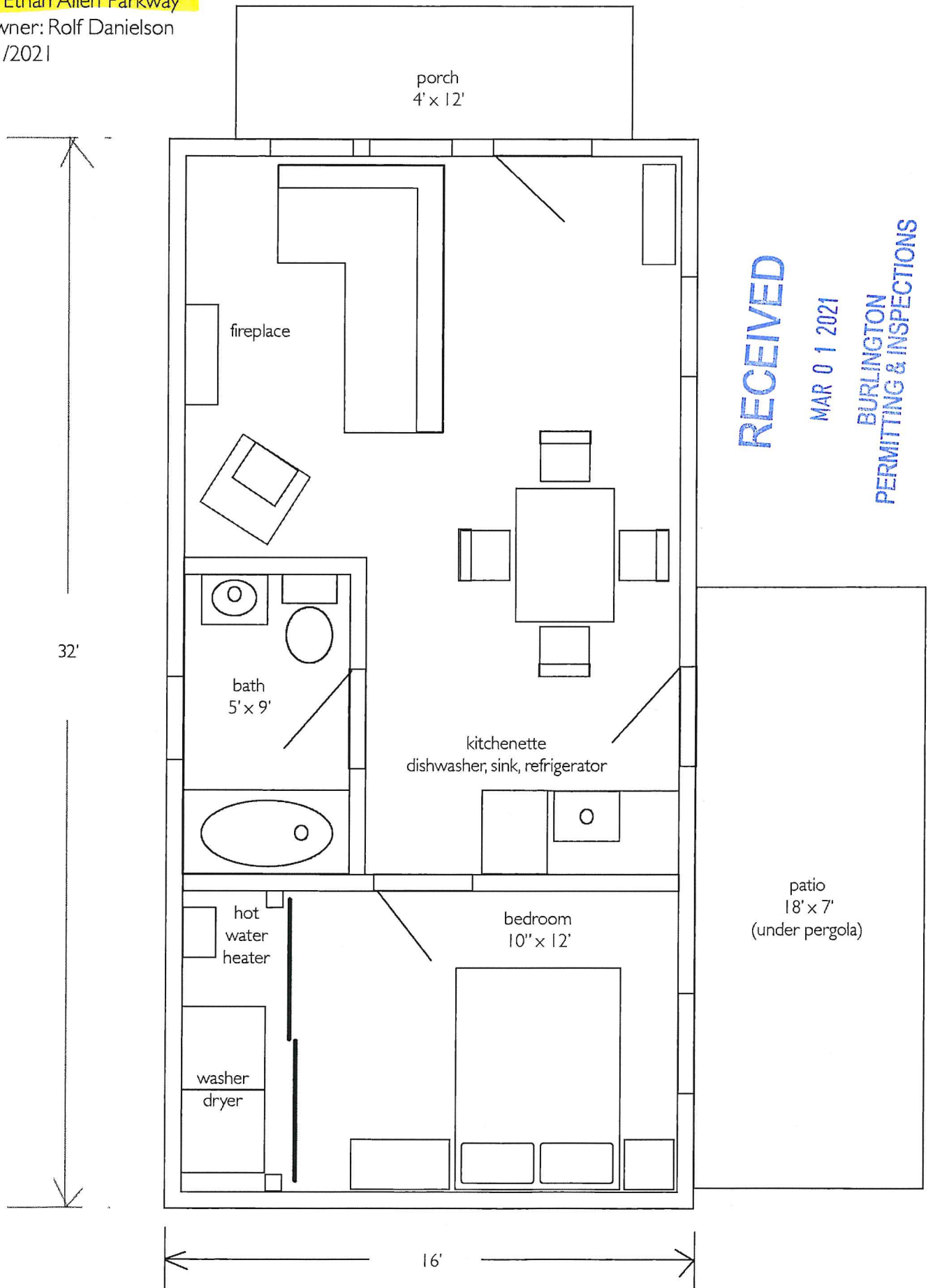
Sections

Project number :	202002
Date :	15 June 2020
Drawn by :	DLG
Checked by :	DLG
Project Phase :	Zoning Permit

A300

Scale : 1/4" = 1'-0"

90 Ethan Allen Parkway
Owner: Rolf Danielson
3/1/2021



RECEIVED
MAR 01 2021
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PERMITTING & INSPECTIONS

90 Ethan Allen Parkway

Owner: Rolf Danielson

2/23/2021

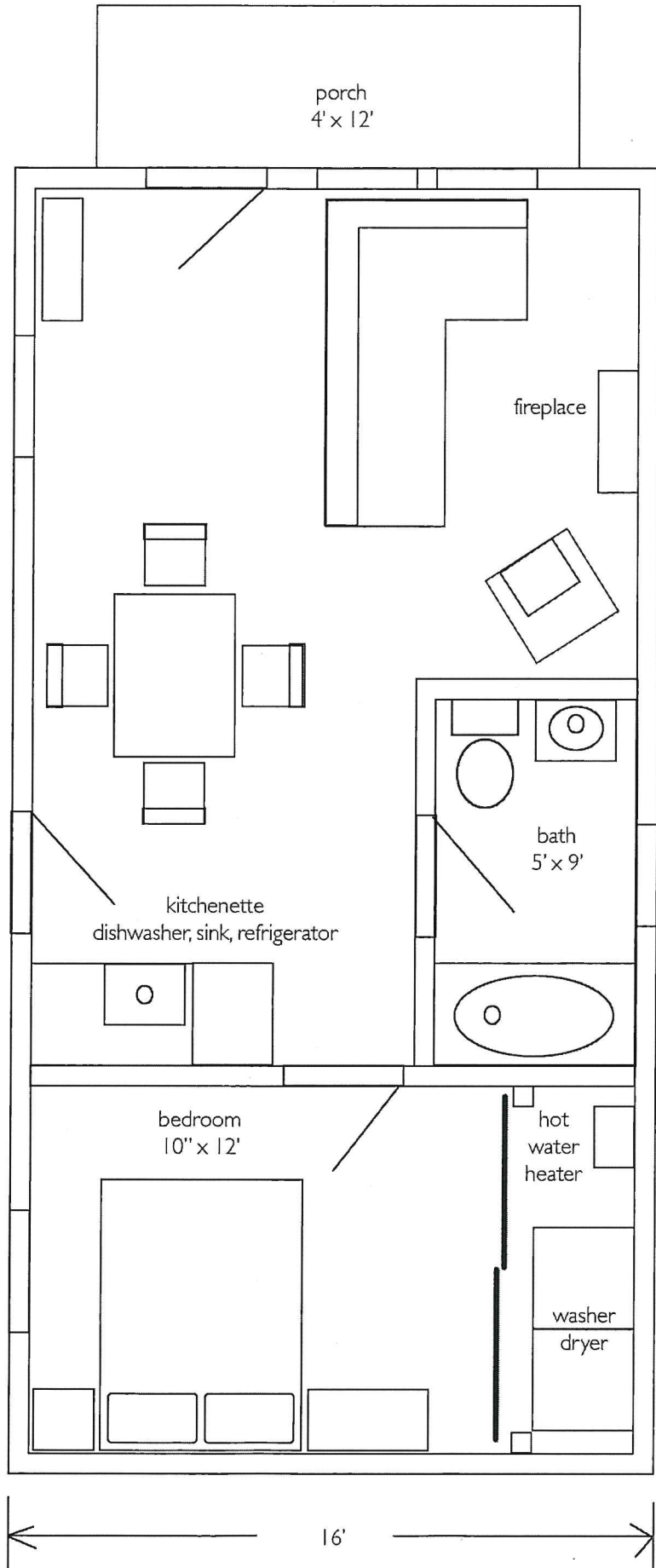
31)

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MAR 01 2021

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32'



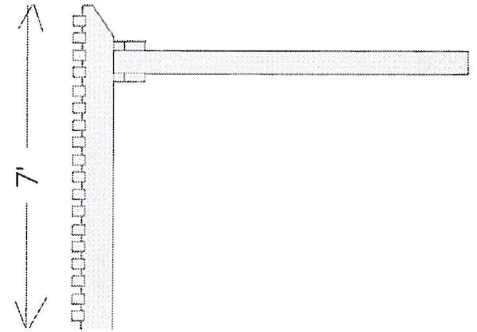
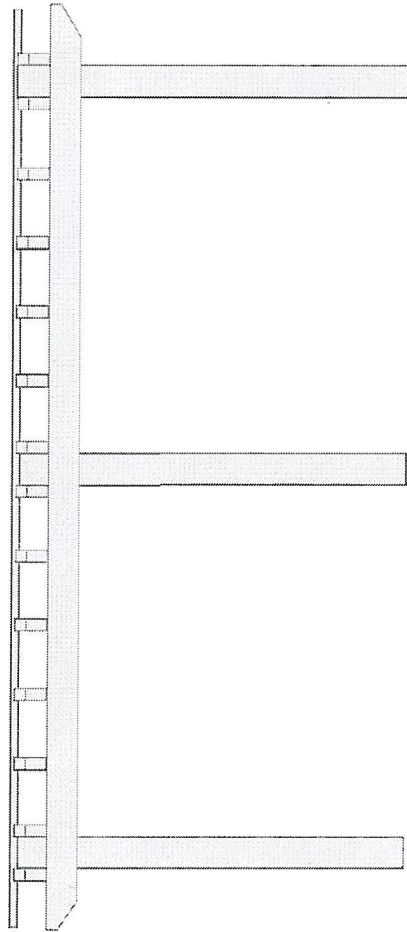
16'

unit 4

1" = 4'

90 Ethan Allen Parkway
Rolf Danielson
2/9/2021

8



pergola
pressure treated wood,

RECEIVED
FEB 10 2021
BURLINGTON
PERMITTING & INSPECTIONS

Burlington Design Advisory Board

645 Pine Street
Burlington, VT 05401
www.burlingtonvt.gov/DPI/DAB
Phone: (802) 865-7188

Matthew Bushey
Ron Wanamaker
Tom Cullins
Eric Morrow
Karyn Norwood
vacant Alt.
vacant, Alt.



DESIGN ADVISORY BOARD Tuesday October 13, 2020 3:00 PM REMOTE MEETING

Zoom: <https://us02web.zoom.us/j/89725089538?pwd=dEo2WFUrc2pNL2djWDFXS1VnU04zdz09>

Webinar ID: 897 2508 9538

Password: 923553

Call in telephone: US: 1 929 205 6099 or +1 301 715 8592 or +1 312 626 6799 or +1 669 900 6833 or +1 253 215 8782 or +1 346 248 7799

Agenda

Session I – 3:00 PM – 3:30 PM

21-0329CA; 323-325 College Street (RH, Ward 8E) Green Castle LLC, Aloha Properties LLC, Peter Potts IRA, Carol B. Potts IRA, and Elizabeth Demas IRA
Construction of 4-unit building addition with associated utility work and minor grading

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Burlington Design Advisory Board

Department of Permitting and Inspections

645 Pine Street

Burlington, VT 05401

<http://www.burlingtonvt.gov/DPI/Boards/Design-Advisory-Board/>

Telephone: (802) 865-7188

Eric Morrow, Chair
Matt Bushey, Vice Chair
Tom Cullins
Ron Wanamaker
Karyn Norwood
Vacant, Alternate
Vacant, Alternate



DESIGN ADVISORY BOARD

Tuesday October 13, 2020

Remote Meeting via Zoom

Present: Eric Morrow, Matt Bushey, Ron Wanamaker

Absent: Tom Cullins, Karyn Norwood.

Staff present: Mary O'Neil

Zoom: <https://us02web.zoom.us/j/89725089538?pwd=dEo2WFUrc2pNL2djWDFXS1VnU04zdz09>

Webinar ID: 897 2508 9538

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21-0329CA; 323-325 College Street (RH, Ward 8E) Green Castle LLC, Aloha Properties LLC, Peter Potts IRA, Carol B. Potts IRA, and Elizabeth Demas IRA
Construction of 4-unit building addition with associated utility work and minor grading

Applicants did not appear at the hearing. DAB Board members waited half an hour, and then suspended the meeting. Agenda item to be rescheduled for October 27, 2020.