



CITY OF ST. PETERSBURG, FLORIDA
PLANNING AND DEVELOPMENT SERVICES DEPARTMENT
URBAN PLANNING AND HISTORIC PRESERVATION DIVISION

STAFF REPORT

Community Planning and Preservation Commission Certificate of Appropriateness Request

Report to the Community Planning and Preservation Commission from the Urban Planning and Historic Preservation Division, Planning and Development Services Department, for Public Hearing and Executive Action scheduled for **Monday, November 8, 2021, beginning at 2:00 p.m.**, in Council Chambers of City Hall, 175 Fifth St. N., St. Petersburg, Florida. Everyone is encouraged to participate in person, view the meetings on TV, or online at <https://www.stpete.org/connect-with-us/stpete-tv.php>.

According to Planning and Development Services Department records, Commissioner Lisa Wannemacher resides or has a place of business within 2,000 feet of the subject property. All other possible conflicts should be declared upon the announcement of the item.



Case No.: 21-90200100
Address: 253 2nd Avenue North
Legal Description: REV MAP OF ST PETERSBURG BLK 16, E 45FT OF S 110FT OF LOT 10
Parcel ID No.: 19-31-17-74466-016-0101
Date of Construction: 1921
Local Landmark: Hotel Cordova (HPC 98-02)
Owner: TDZ Cordova, LLC
Agents: Katie E. Cole, Esq.
Request: Review of a Certificate of Appropriateness for ~~38,000 SF~~ a new addition and replacement of historic windows at the Cordova Hotel, an individual local historic landmark
Zoning: Downtown Center-1 (DC-1)

Historical Context and Significance

The Hotel Cordova was constructed in 1921 as one of St. Petersburg's early small-scale hotels in the early 1920s boom era. The three-story building is an excellent example of Neoclassical Revival architecture, which is not a common architectural style found in downtown St. Petersburg. It was constructed by Frederick Scott, and first operated as the Hotel Scott before it was rebranded as the Hotel Cordova by 1922.

The property was designated as a local historic landmark in 1998. Staff determined that the building has high significance due to its small-scale and uncommon architectural design and features. The structure has not been altered in any meaningful way and is in excellent condition. The hotel was constructed on the 200 block of 2nd Avenue which held many other small-scale buildings, but those buildings have been demolished over the years. Only the Mitchell Apartment/Stanton Apartment building is left on the block at 211 3rd Street North, but is proposed to be demolished as part of this project, along with the Stanton Apartment Annex (225 3rd Street North). Built in 1919, the Mitchell Apartments building is on the Potentially Eligible List and has a clear relationship in scale and massing with the Hotel Cordova. The Hotel Cordova, the Mitchell Apartments, and the Stanton Apartments Annex are contributing structures to the Downtown St. Petersburg National Register Historic District.



Figure 1: Undated, historic photograph of the Hotel Cordova from Florida Memory.

The local landmark designation boundary does not include the Mitchell Apartments/Stanton Apartments buildings, as the boundary only covers the parcel that contains the Hotel Cordova building (see Figure 2 below). Due to the designation boundary's proximity to the building, staff is only reviewing the new construction that touches the Hotel Cordova. As the Hotel Cordova is a local historic landmark, a Certificate of Appropriateness (COA) is required for exterior alteration. Per the City's COA Matrix, new construction and additions require review by the Community Planning and Preservation Commission (CPPC).

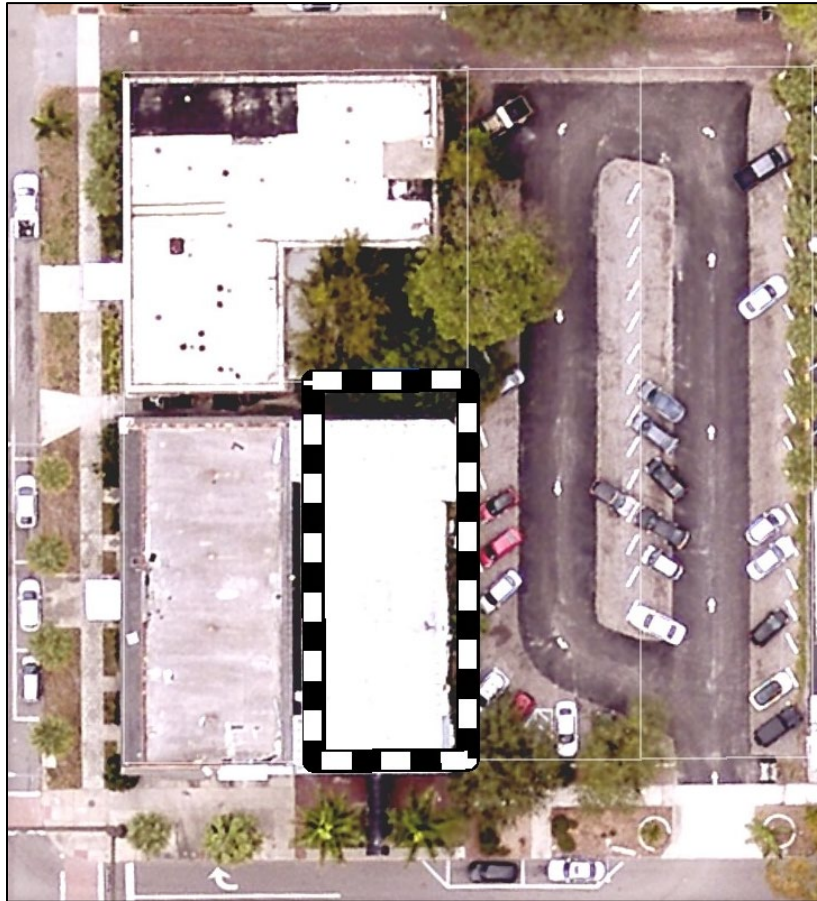


Figure 2: Map showing the designation boundary of the Hotel Cordova

Project Description and Review

Project Description

The COA application (Appendix A) proposes the following work:

- Construction of hotel expansion, where the addition will connect to the Hotel Cordova through a small hyphen on the west side of the building.
 - There will be partial demolition of the western wall where the new hyphen will be connected.
 - The hyphen connection will be set back 23-feet from the front property line.
 - The hyphen connection will utilize painted stucco material.
- Replacement of approximately 128 existing historic, wooden windows with Marvin aluminum impact windows.
- Removal of window a/c units and installation of centralized HVAC system, where the condenser will be mounted on the roof.
- The plans were revised as of October 7th to reduce the size of the hyphen and setback the new construction from the front property line. Some of the window replacement sheets still include outlines of the old plans.

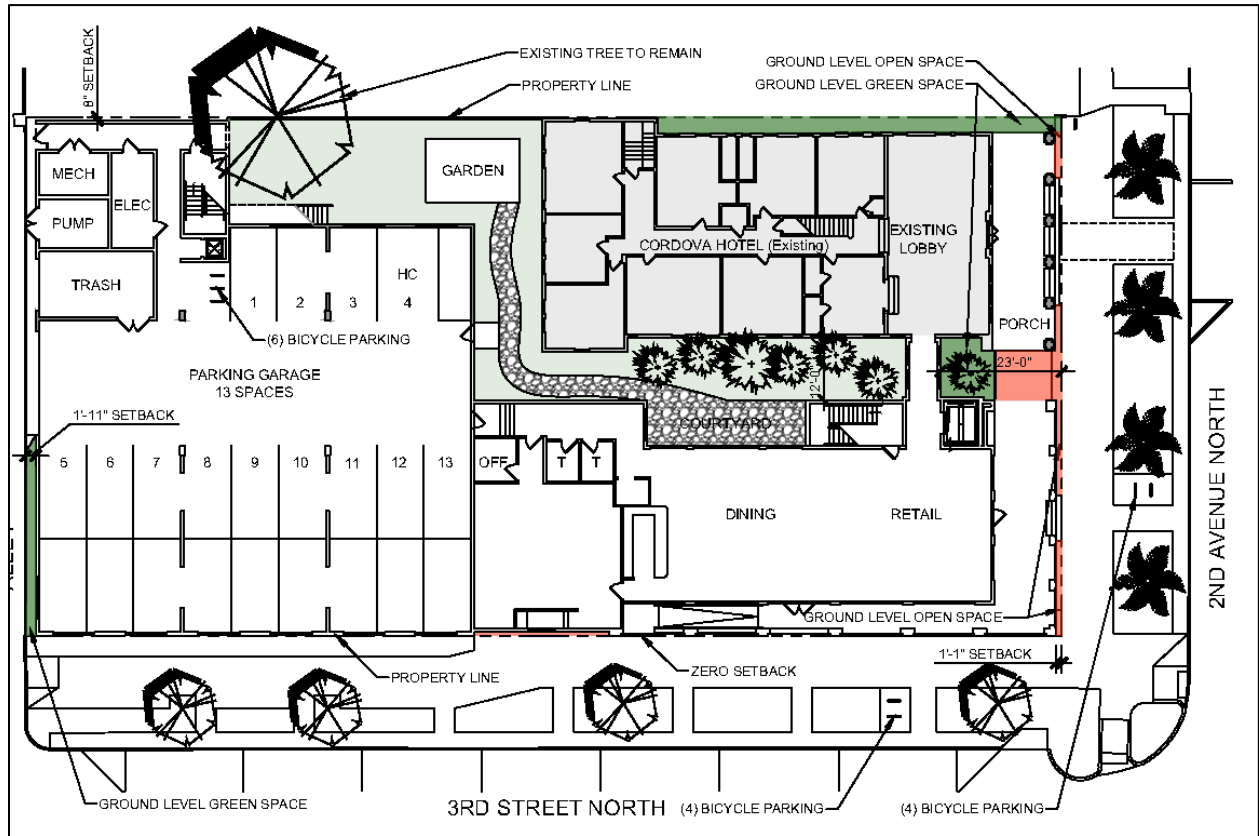


Figure 3: Proposed site plan.



Figure 4: Front elevation of the Hotel Cordova with the new hotel addition.



Figure 4: Rendering of proposed addition to Hotel Cordova.

General Criteria for Granting Certificates of Appropriateness and Staff Findings

1. *The effect of the proposed work on the landmark or the property upon which such work is to be done.*

Consistent

The proposal will not substantially affect the integrity of the local historic landmark, but the proposed replacement of the historic windows will lessen the integrity of the property.

The applicant has discussed the importance of retaining the existing historic lobby of the Hotel Cordova as the main lobby for the expanded hotel use. Due to limitations in ADA-accessibility due to the floor changes in the Cordova's floor plan, the applicant states that the hyphen location needed to be placed on the side of the building, rather than a generally recommended rear location.

2. *The relationship between such work and other structures on the landmark site or other property in the historic district.*

Consistent

The hyphen will be located on the western side of the building, setback 23 feet from the front property line. While the general recommendation is for additions to be located on the rear, the applicant has submitted narrative giving reasoning for the hyphen's more prominent location. The proposed hyphen is small in width, only providing space for a simple hallway connection between the two buildings.

3. *The extent to which the historic, architectural, or archaeological significance, architectural style, design, arrangement, texture and materials of the local landmark or the property will be affected.*

Somewhat

The proposal includes the removal and replacement of the historic windows.

Inconsistent

While the proposed replacements will retain the same style, design, and arrangement, they will not be made of the same materials.

4. *Whether the denial of a Certificate of Appropriateness would deprive the property owner of reasonable beneficial use of his or her property.*

Not applicable There is no indication that denial of a COA would adversely affect the property owner's reasonable use of the subject property.

5. *Whether the plans may be reasonably carried out by the applicant.*

Consistent The proposed project appears to be appropriate under this criterion.

6. *A COA for a noncontributing structure in a historic district shall be reviewed to determine whether the proposed work would negatively impact a contributing structure or the historic integrity of the district. Approval of a COA shall include any conditions necessary to mitigate or eliminate negative impacts.*

Not applicable The building is a local historic landmark.

Additional Guidelines for Alterations

1. *A local landmark should be used for its historic purpose or be placed in a new use that requires minimal change to the defining characteristics of the building and its site and environment.*

Consistent The proposed property appears to meet this criterion as it will remain in use as a hotel.

2. *The distinguishing historic qualities or character of a building, structure, or site and its environment shall be preserved. The removal or alteration of any historic material or distinctive architectural features shall be avoided when reasonable.*

Inconsistent The proposal does include the removal of the historic windows.

3. *Each property shall 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 architectural elements from other buildings without sufficient documentary evidence, shall not be undertaken.*

Consistent

4. *Most properties change over time; those changes that have acquired historic significance in their own right shall be retained and preserved, as appropriate.*

Consistent The building has changed very little over its lifespan, and the proposal does not include removal of any changes.

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

Inconsistent The application does propose the removal of the historic windows, which are considered character defining features.

6. *Deteriorated historic features shall be repaired rather than replaced. Where the severity of deterioration requires replacement of a distinctive feature, the new feature shall match the old in design, texture, and other visual qualities and, where reasonable, materials. Replacement of missing features shall be substantiated by documentary, physical, or pictorial evidence.*

Inconsistent The application does include the removal of all historic windows, which appear to be in excellent condition. No documentation was provided regarding their deteriorated condition.

The proposed replacement windows do match the old in design and visual qualities, but will be made with a different material than the wooden windows.

7. *Chemical or physical treatments, such as sandblasting, that cause damage to historic materials shall not be used. The surface cleaning of structures, if appropriate, shall be undertaken using the gentlest means possible.*

Not applicable No indication that harsh treatment will be used.

8. *Significant archaeological resources affected by a project shall be protected and preserved if designated pursuant to this section. If such resources must be disturbed, mitigation measures shall be undertaken.*

Not applicable This property is not located in an archaeological area.

Additional Guidelines for New Construction

In approving or denying applications for a COA for new construction (which includes additions to an existing structure), the Commission and the POD shall also use the following additional guidelines.

1. *The height and scale of the proposed new construction shall be visually compatible with contributing resources in the district.*

Consistent The proposed hyphen addition will be slightly shorter than the hotel. The scale will be in keeping with the main structure.

2. *The relationship of the width of the new construction to the height of the front elevation shall be visually compatible with contributing resources in the district.*

Consistent The hyphen connection will be three stories tall and will be shorter than the Cordova Hotel.

3. *The relationship of the width of the windows to the height of the windows in the new construction shall be visually compatible with contributing resources in the district.*

Consistent

4. *The relationship of solids and voids (which is the pattern or rhythm created by wall recesses, projections, and openings) in the front facade of a building shall be visually compatible with contributing resources in the district.*

Not applicable The proposal does not include any changes to the façade of the building.

5. *The relationship of the new construction to open space between it and adjoining buildings shall be visually compatible with contributing resources in the district.*

Not applicable Staff is only reviewing the location where the hyphen addition is located, and not the entirety of the proposal.

6. *The relationship of the entrance and porch projections, and balconies to sidewalks of the new construction shall be visually compatible with contributing resources in the district.*

Consistent

7. *The relationship of the materials and texture of the facade of the new construction shall be visually compatible with the predominant materials used in contributing resources in the district.*

Consistent The proposed addition will feature materials to match the existing house.

8. *The roof shape of the new construction shall be visually compatible with contributing resources in the district.*

Consistent

9. *Appurtenances of the new construction such as walls, gates and fences, vegetation and landscape features, shall, if necessary, form cohesive walls of enclosures along a street, to ensure visual compatibility of the new construction with contributing resources in the district.*

Consistent

10. *The mass of the new construction in relation to open spaces, the windows, door openings, porches and balconies shall be visually compatible with contributing resources in the district.*

Consistent

11. *The new construction shall be visually compatible with contributing resources in the district in its orientation, flow, and directional character, whether this is the vertical, horizontal, or static character.*

Consistent The proposed hyphen will be in-line with the existing hotel in terms of orientation, flow, and directional character.

12. *New construction shall not destroy historic materials that characterize the local landmark or contributing property to a local landmark district. The new construction shall be differentiated from the old and shall be compatible with the massing, size, scale, and architectural features to protect the historic integrity of the local landmark and its environment, or the local landmark district.*

Consistent The proposed hyphen will minimally remove historic materials from the property. The hyphen will be differentiated and will be compatible in massing, size, and scale.

13. *New construction shall be undertaken in such a manner that if removed in the future, the essential form and integrity of the local landmark and its environment would be unimpaired.*

Consistent The proposed addition could be removed without altering the essential form and integrity of the resource.

Additional Guidelines for Window Replacement

The City's historic preservation office, State of Florida Division of Historic Resources, and U.S. Department of Interior Technical Preservation Services can provide additional information relating to window repair and replacement for individual landmark buildings and properties within local historic districts. While preservation and repair of historic windows is often preferable, property owners may replace windows provided that each replacement window meets the following criteria:

1. *Impact resistance. The replacement window and glass shall be impact resistant;*

Consistent Windows will be impact resistant, per information provided with the application (Appendix A).

2. *Energy performance. The replacement window shall be Energy Star qualified for southern climate zones;*

Consistent The application states that the windows will be Energy Star rated windows.

3. *Depth in wall. The replacement window shall be setback into the wall the same distance as the historic window;*

Consistent The application states that the replacement windows will be set back two inches into the wall plane to match the existing reveal.

4. *Frame size, shape and exterior trim. The replacement window shall be the same size and shape as the historic window and opening. Historic openings shall not be altered in size. Existing, exterior trim shall be retained, where practicable;*

Consistent The sizes of the replacement windows will match existing openings.

5. *Configuration. The replacement window shall have the same light configuration as the historic window. If the historic window configuration cannot be determined, the replacement window configuration shall be appropriate to the architectural style of the subject building;*

Consistent The applicant has provided drawings that show the proposed windows will match the configuration of the existing windows.

6. *Proportions. The replacement window shall have the same visual qualities of the historic window, where commercially reasonable:*
- a. *Muntins and mullions. Where provided, muntins and mullions shall have the same dimensions and profile of the historic muntins and mullions.*
 - b. *Stiles. For hung windows, stiles shall align vertically and be the same width at the upper and lower sashes.*
 - c. *Top, meeting and bottom rails, and blind stop. The top, meeting and bottom rails of a hung window, including the corresponding blind stop, shall have the same dimensions and profile of the historic window.*

Consistent The applicant has provided drawings that show the proposed windows will match the muntin configuration and proportions of the existing windows.

7. *Finish. The finished surface and appearance shall match the historic window, where practicable.*

Inconsistent Window frames will be aluminum.

Summary of Findings, Certificate of Appropriateness Review

Staff evaluation yields a finding of the following criteria being met by the proposed project:

- General Criteria for Granting Certificates of Appropriateness: 3 of 4 relevant criteria partially met.
- Additional Guidelines for Alteration: 3 of 6 relevant criteria satisfied.
- Additional Guidelines for New Construction: 11 of 11 relevant criteria met.
- Addition Guidelines for Window Replacement: 6 of 7 criteria satisfied.

Staff Recommendation

Based on a determination of general consistency with Chapter 16, City Code of Ordinances, staff recommends that the Community Planning and Preservation Commission **approve** the Certificate of Appropriateness request for the alteration of the Hotel Cordova, a local historic landmark, with the following conditions:

1. The proposed hyphen will utilize a stucco cladding.
2. Windows will be installed to be setback within the wall plane and feature a reveal of at least two inches, to match existing window reveal.
3. Proposed windows will replicate existing design and configuration of each window, and feature contoured, exterior three-dimensional muntins.
4. Wooden exterior casing and trim will be reinstalled in kind.
5. A historic preservation final inspection will be required.
6. All other necessary permits shall be obtained. Any additional work shall be presented to staff for determination of the necessity of additional COA approval.
7. This approval will be valid for 24 months from the date of this hearing, with an expiration date of November 8, 2023.

Appendix A:

Application No. 21-90200100



CERTIFICATE OF APPROPRIATENESS

APPLICATION

All applications are to be filled out completely and correctly. The application shall be submitted to the City of St. Petersburg's Planning and Development Services Department, located on the 8th floor of the Municipal Services Building, One Fourth Street North, St. Petersburg, Florida. Laura Duvekot, Historic Preservationist II, (727) 892-5451 or Laura.Duvekot@stpete.org

GENERAL INFORMATION

Property Address Stanton Hotel: 225- 3rd Street North, St. Petersburg, FL. 33701
 Stanton Apartments: 211- 3rd Street North, St. Petersburg, FL. 33701
 Cordova Hotel: 253- 2nd Avenue North, St. Petersburg, FL. 33701

Historic District / Landmark Name

HPC # 98-02- Hotel Cordova, 253- 2nd Avenue North St. Petersburg, FL.

Owner's Name

TDZ Cordova, LLC / Old St. Pete Dev. Corp.

Owner's Address, City, State, Zip Code

14100 WALSINGHAM RD STE 20, LARGO FL 33774-3228 /
 PO BOX 3601 ST PETERSBURG FL 33731-3601

Authorized Representative (Name & Title), if applicable

Katie E. Cole, Esq.

Representative's Address, City, State, Zip Code

101 E Kennedy Blvd, Suite 3700, Tampa, FL, 33602

Parcel Identification No.

19-31-17-74466-016-0101, 19-31-17-74466-016-0091, 19-31-17-74466-016-0090

Corresponding Permit Nos.

Property Owner's Daytime Phone No.

Alex@arcadiaresorts.com

Owner's Email

727-259-6791

Representative's Daytime Phone No.

727- 259-6791

Representative's Email : Katie.Cole@hwhlaw.com

APPLICATION TYPE (Check applicable)			
<input checked="" type="checkbox"/>	Addition	<input checked="" type="checkbox"/>	Window Replacement
<input type="checkbox"/>	New Construction	<input type="checkbox"/>	Door Replacement
<input type="checkbox"/>	Demolition	<input type="checkbox"/>	Roof Replacement
<input type="checkbox"/>	Relocation	<input type="checkbox"/>	Mechanical (e.g. solar)
<input type="checkbox"/>	Other:		

TYPE OF WORK (Check applicable)	
<input type="checkbox"/>	Repair Only
<input type="checkbox"/>	In-Kind Replacement
<input checked="" type="checkbox"/>	New Installation
<input type="checkbox"/>	Other:

AUTHORIZATION

By signing this application, the applicant affirms that all information contained within this application packet has been read and that the information on this application represents an accurate description of the proposed work. The applicant certifies that the project described in this application, as detailed by the plans and specifications enclosed, will be constructed in exact accordance with aforesaid plans and specifications. Further, the applicant agrees to conform to all conditions of approval. It is understood that approval of this application by the Community Planning and Preservation Commission in no way constitutes approval of a building permit or other required City permit approvals. Filing an application does not guarantee approval.

- NOTES:** 1) It is incumbent upon the applicant to submit correct information. Any misleading, deceptive, incomplete or incorrect information may invalidate your approval.
 2) To accept an agent's signature, a notarized letter of authorization from the property owner must accompany the application.

Signature of Owner:

Date:

8-12-21

Signature of Representative:

Date:



CERTIFICATE OF APPROPRIATENESS

APPLICATION

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GENERAL INFORMATION

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 Stanton Apartments: 211- 3rd Street North, St. Petersburg, FL. 33701
 Cordova Hotel: 253- 2nd Avenue North, St. Petersburg, FL. 33701

Parcel Identification No.

19-31-17-74466-016-0101, 19-31-17-74466-016-0091, 19-31-17-74466-016-0090

Historic District / Landmark Name

HPC # 98-02- Hotel Cordova, 253- 2nd Avenue North St. Petersburg, FL.

Corresponding Permit Nos.

Owner's Name

Property Owner's Daytime Phone No.

Owner's Address, City, State, Zip Code

Owner's Email

14100 WALSINGHAM RD STE 20, LARGO FL 33774-3228 /
 PO BOX 3601 ST PETERSBURG FL 33731-3601

Authorized Representative (Name & Title), if applicable

Representative's Daytime Phone No.

Katie E. Cole, Esq.

727- 259-6791

Representative's Address, City, State, Zip Code

Representative's Email : Katie.Cole@hwhlaw.com

101 E Kennedy Blvd, Suite 3700, Tampa, FL, 33602

APPLICATION TYPE (Check applicable)		TYPE OF WORK (Check applicable)	
<input type="checkbox"/>	Addition	<input type="checkbox"/>	Window Replacement
<input type="checkbox"/>	New Construction	<input type="checkbox"/>	Door Replacement
<input type="checkbox"/>	Demolition	<input type="checkbox"/>	Roof Replacement
<input type="checkbox"/>	Relocation	<input type="checkbox"/>	Mechanical (e.g. solar)
<input type="checkbox"/>	Other:	<input type="checkbox"/>	Repair Only
		<input type="checkbox"/>	In-Kind Replacement
		<input type="checkbox"/>	New Installation
		<input type="checkbox"/>	Other:

AUTHORIZATION

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Signature of Owner: Date: 8/12/2021

Signature of Representative: Date: 8/12/21

Cordova Inn - Certificate of Appropriateness - Proposed Scope of Work

Building Feature	Photo # / Drawing #	Proposed Work
South Elevation	P1, D9, D10, D11	Replace all windows with Energy Star- and impact-rated single hung windows. See window schedule and proposed details showing design of new windows.
East Elevation	P2, D9, D10, D11	Replace all windows with Energy Star- and impact-rated single hung windows. See window schedule and proposed details showing design of new windows.
North Elevation	P3, D9, D10, D11	Replace all windows with Energy Star- and impact-rated single hung windows. See window schedule and proposed details showing design of new windows.
West Elevation	P4, D9, D10, D11	Replace all windows with Energy Star- and impact-rated single hung windows. See window schedule and proposed details showing design of new windows.
West Elevation	D1, D2, D3, D7	Partial demolition of west facing wall (modified opening) to allow for connection to / passage from existing building to new addition.
West Elevation	D1, D2, D3, D7	Remove existing chimney to allow for connection to / passage from existing building to new addition.
South, East, West Elevations	D1, D2, D3, D5, D7, D8	Remove all existing exterior window mounted HVAC units. New HVAC system with consist of roof-mounted condensing units and air-handling units within rooms and spaces. No HVAC equipment will be visible from public right-of-way.

Kelly K. Perkins

From: Tim Clemmons <Tim.C@placearc.com>
Sent: Wednesday, October 27, 2021 9:54 AM
To: Kelly K. Perkins
Cc: Greg Glenn
Subject: RE: Cordova Inn - Revised COA Package

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Good morning Kelly,

Please note the following proposed change to the design of the 12-foot wide hyphen connecting the existing hotel to the new addition. The exterior material of the south façade will be painted stucco in lieu of the previously proposed wood siding. The stucco texture will be smooth to match existing.

Sincerely,

TIM CLEMMONS AIA LEED AP
Principal



PLACE ARCHITECTURE
P 727.399.6980 x13
C 727.687.5970
33 6th Street S, Suite 400
St Petersburg, FL 33701

E: tim.c@placearc.com

W: www.placearc.com

Cordova Inn – Certificate of Appropriateness Application
253 2nd Avenue North
St. Petersburg, FL
Owner: TDZ Cordova, LLC, a Florida limited liability company

The Applicant proposes a significant addition to the historic Cordova Inn which will create a viable and long lasting boutique hotel in downtown St. Petersburg; cementing the historic nature of the Cordova while offering the modern amenities for the family traveler. The proposed expansion will complement the historic hotel in look and feel, while adding features like larger rooms, a small parking deck, a rooftop bar and a courtyard garden.

The proposed addition increases the hotel by 62 rooms from the original 32 rooms for a total of 94 rooms. The current Cordova Inn covers 12,200 square feet; the expansion will add 38,200 square feet, so the expanded Cordova Inn will cover 50,400 square feet in total.

The four and five-story addition will match the Cordova in look and feel. The moderate height of the expansion and the setbacks along the corner of 2nd Avenue North and 3rd Street North reflect the traditional mass and scale of the existing buildings and respects the historic First United Methodist Church, located to the west of the project.

The Cordova Hotel was designated as a local landmark and landmark site by the City of St. Petersburg in 1998. The other two buildings impacted by the expansion, the Stanton Hotel and the Stanton Apartments (or Mitchell Apartments) are not designated historic buildings. The applicant acknowledges that the Stanton/Mitchell Apartments has been included in the City's "potentially eligible" list of historic buildings in St. Petersburg and is listed as a "contributing resource" to the Downtown St. Petersburg National Register Historic District.

The City's report regarding the potential historic nature of the Mitchell-Stanton Apartments states:

The subject property is a three-story apartment building featuring a central, open air stairway and six units per floor, each of which features a primary entrance facing a shared catwalk patio. This arrangement allows the building to occupy its 55' by 100' parcel with minimal setbacks and broad porches along its 3rd Street N façade. The building is supported by a wood-frame construction with shiplap wood siding and a flat roof with symmetrical stepped parapet.

As seen in the proposed elevations, the project includes similar setbacks to the existing Mitchell Stanton and only increases the height moderately. The plans include porches facing 3rd Street that mimic the appearance of the existing catwalk patio. In essence the proposed addition to the Cordova reflects the spirit of the viable hotel while paying homage to the interactive street frontage of the apartments.

The applicant engaged The Lange Corporation to conduct a Property Condition Survey¹ regarding the existing Cordova, the existing Mitchell/Stanton Apartments and the adjacent Stanton Hotel. The conclusion of the report is that based on the age and condition of the Stanton properties, any renovation would not only be impracticable but would remove any potential historic value that could be attributed to the properties. Mr. Steven Lange, architect, stated upon his review that the Stanton Apartments is a wood, balloon framed structure with the wood siding attached directly to the long wood studs which create the frame of the structure. The age of the structure, coupled with the brick pier foundation and balloon framing make any salvage of the building in its existing state impractical. Electrical and mechanical systems are attached to the exterior of the building, further diminishing any historic qualities – other than the fact that the building is simply old. Since its original construction in the early 1920s, the building has been continually modified – a conversion of apartments to offices, and back to apartments, the conversion of the managers unit into an 18th apartment, various paint schemes through the years, and the modification of railings, floors and exterior siding repairs. The apartments themselves are undersized for modern use and the fixtures are reflective of an aged era – but not “historic” in nature.

The expansion of the Cordova Inn is an appropriate extension of a desired use and allows for the continued operation of the hotel. The existing hotel has relatively small rooms and would only appeal to a small group of visitors. The expansion includes larger rooms and provides economies of scale to offer larger blocks of rooms and host business travelers.

The applicant has already shown its dedication to the historic Cordova Inn through the interior renovations which moved the original wooden bar area to a more desirable location and, in partnering with the St. Petersburg Historic Society, used images reflective of St. Petersburg at the time in Inn was constructed as the main art adorning the walls.

The Cordova Hotel sits at its “original” location and in its original orientation. In the rear courtyard is a large Banyan Tree which is the centerpiece of the proposed courtyard at the rear. Currently, the Cordova Hotel does not have historic or other landscaping that could be found traditionally at these types of hotels. The proposed redevelopment of this portion of the block provides and opportunity to add such landscaping in a planned and significant way.

The significant amount of open space at the rear exceeds the City requirements for the DC-1 zoning code for open space. It is anticipated that construction of the project will proceed to building permit as no variances are being requested and the proposed project is below the base floor area ratio for the DC-1 district.

¹ The Property Condition Survey, dated May 31, 2021, is not included for reference as it includes confidential and proprietary information for the owners of the properties and is not relevant to the analysis of the Certificate of Appropriateness for the Cordova except for the proposed demolition of the potentially eligible property which is necessitated by this application. As such, the information included is relevant to that determination. Additional information can be provided upon request.

Upon approval of this COA, the applicant anticipates quickly moving to make the alterations and additions that will allow for the replacement of existing windows with energy efficient, modern windows while retaining the character of the original windows; and allow for the addition of rooms to the Cordova to provide a viable hotel for generations to come.

Written Narrative Responses to COA application

Alterations

Written description explaining how the proposed work complies with the following evaluation criteria:

1. A local landmark should be used for its historic purpose or be adaptively fit into a new use that requires minimal change to the defining characteristics of the building and its site and environment. *The proposed alterations to the existing Cordova hotel (new period-accurate, hurricane-rated windows, new central-type HVAC, opening in southwest wall at all three levels to allow passage to adjacent new construction addition) will improve the existing hotel and enhance its ability to serve its historic purpose.*
2. The distinguishing historic qualities or character of a building, structure, or site and its environment shall be preserved. The removal or alteration of any historic material or distinctive architectural features shall be avoided when reasonable. *It is the intention of the work to preserve and/or reinstate all historic character of the existing building. The passage to the new addition will necessitate the removal of an existing chimney at the southwest corner of the building that is currently not visible from the street. The replacement of existing window-mounted air conditioners with new central-type HVAC will restore the building to its original character.*
3. Each property shall 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 architectural elements from other buildings without sufficient documentary evidence, shall not be undertaken. *The exterior alterations of the existing building will not create a false sense of historical development but will help return the building closer to its original character. Non-original window mounted air-conditioning units will be removed and new windows will be installed that match the original windows in pattern and operation.*
4. Most properties change over time; those changes that have acquired historic significance in their own right shall be retained and preserved, as appropriate. *To the best of our knowledge, the exterior of the existing Cordova Hotel has been changed very little over time. According to the PCS report, the Cordova has exterior masonry walls which run continuously from the roof level to grade and is punctuated with numerous door and window openings. There is no visible sign of masonry wall distress.*
5. Distinctive features, finishes, and construction techniques or examples of craftsmanship that characterize a property shall be preserved. *None of the proposed work to the existing Cordova Hotel building will alter or diminish characteristic traits of the building. Attached hereto is the specifications for the window replacement which will provide wind rated and energy efficient*

windows. One goal of the restoration and expansion project is to provide a sustainable project through construction innovations so that the Cordova can be enjoyed by generations to come.

6. Deteriorated historic features shall be repaired rather than replaced. Where the severity of deterioration requires replacement of a distinctive feature, the new feature shall match the old in design, texture, and other visual qualities and, where reasonable, materials. Replacement of missing features shall be substantiated by documentary, physical, or pictorial evidence. *The existing Cordova Hotel building has been well maintained over time and to the best of our knowledge none of the historic features – except original windows – need to be replaced. The windows are being replaced to improve energy efficiency and to protect against hurricane force winds.*

7. Chemical or physical treatments, such as sandblasting, that cause damage to historic materials shall not be used. The surface cleaning of structures, if appropriate, shall be undertaken using the gentlest means possible. *No work of this type is being performed.*

8. Significant archaeological resources affected by a project shall be protected and preserved if designated pursuant to this section. If such resources must be disturbed, mitigation measures shall be undertaken. *There are no archaeological resources on site.*

Window Replacement Narrative

1. All new windows shall be impact resistant.
2. All new windows shall be Energy Star qualified.
3. See existing window detail (drawing D10) showing existing 2” window setback in wall. See new window detail (drawing D11) showing proposed 2” window setback in wall to match existing.
4. See existing window detail (drawing D10) showing existing window frame size, shape and exterior trim. See new window detail (drawing D11) showing proposed window frame size, shape and exterior trim to match existing.
5. See exterior photos (P1, P2, P3, P4) showing existing window configuration. See window schedule (drawing D9) showing configuration of new windows. Size and configuration of new windows to match existing windows in all locations.
6. See exterior photos (P1, P2, P3, P4) showing existing window proportions. See window schedule (drawing D9) showing proportions of new windows to match existing.
7. See existing window detail (drawing D10) showing dimensions of existing window muntins and mullions. See new window detail (drawing D11) showing dimensions of proposed window muntins and mullions to match existing.
8. See new window schedule (drawing D9) showing stiles align vertically and are the same width at the upper and lower sashes.
9. See existing window detail (drawing D10) showing dimensions of existing window top, meeting and bottom rails. See new window detail (drawing D11) showing dimensions of proposed window top, meeting and bottom rails. New top and bottom rails shall be 3-1/4” to match existing. Existing meeting rails are 1-1/2”. New meeting rails shall be 2”, which is required to achieve required impact rating.
10. Existing windows are wood painted white. New windows are aluminum clad wood painted white to match existing.

Cordova Inn – Certificate of Appropriateness Application Revised Narrative October 7, 2021

Alterations

Written description explaining how the proposed work complies with the following evaluation criteria:

1. A local landmark should be used for its historic purpose or be adaptively fit into a new use that requires minimal change to the defining characteristics of the building and its site and environment. *The proposed alterations to the existing Cordova hotel (new period-accurate, hurricane-rated windows, new central-type HVAC, opening in southwest wall at all three levels to allow passage to adjacent new construction addition) will improve the existing hotel and enhance its ability to serve its historic purpose.*
2. The distinguishing historic qualities or character of a building, structure, or site and its environment shall be preserved. The removal or alteration of any historic material or distinctive architectural features shall be avoided when reasonable. *It is the intention of the work to preserve and/or reinstate all historic character of the existing building. The passage to the new addition will necessitate the removal of an existing chimney at the southwest corner of the building that is currently not visible from the street. The replacement of existing window-mounted air conditioners with new central-type HVAC will restore the building to its original character.*
3. Each property shall 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 architectural elements from other buildings without sufficient documentary evidence, shall not be undertaken. *The exterior alterations of the existing building will not create a false sense of historical development but will help return the building closer to its original character. Non-original window mounted air-conditioning units will be removed and new windows will be installed that match the original windows in pattern and operation.*
4. Most properties change over time; those changes that have acquired historic significance in their own right shall be retained and preserved, as appropriate. *To the best of our knowledge, the exterior of the existing Cordova Hotel has been changed little over time.*
5. Distinctive features, finishes, and construction techniques or examples of craftsmanship that characterize a property shall be preserved. *None of the proposed work to the existing Cordova Hotel building will alter or diminish characteristic traits of the building.*
6. Deteriorated historic features shall be repaired rather than replaced. Where the severity of deterioration requires replacement of a distinctive feature, the new feature shall match the old in design, texture, and other visual qualities and, where reasonable, materials. Replacement of missing features shall be substantiated by documentary, physical, or pictorial evidence. *The existing Cordova Hotel building has been well maintained over time and to the best of our knowledge none of the historic features – except original windows – need to be replaced. The windows are being replaced to improve energy efficiency and to protect against hurricane force winds.*

7. Chemical or physical treatments, such as sandblasting, that cause damage to historic materials shall not be used. The surface cleaning of structures, if appropriate, shall be undertaken using the gentlest means possible. *No work of this type is being performed.*
8. Significant archaeological resources affected by a project shall be protected and preserved if designated pursuant to this section. If such resources must be disturbed, mitigation measures shall be undertaken. *There are no archaeological resources on site.*

New Construction

A new 63-room hotel addition is proposed to be constructed to the west of the existing historic Cordova Inn. The south half of the addition, adjacent to the existing Cordova Inn, is four-stories tall and the north half is five-stories tall. The addition is a separate building and connects to the existing building via a 6'-8" wide by 12'-0" long three-story corridor (hyphen) that is setback 23 feet from the south property line. The main purpose of the hyphen is to allow the two buildings to function as a single, larger hotel and to provide ADA accessibility to the lobby and second and third floor hotel rooms of the existing hotel. The existing entry colonnade is elevated three steps above the sidewalk. On the north side of the existing lobby, there are an additional three steps up to the first floor hotel rooms. The existing hotel does not have an elevator.

The existing hotel lobby will continue to function as the lobby once the addition is complete. It is the owner's intent to emphasize the historic character and quality of the enlarged Cordova Inn and an important aspect of this is the continued use of the original lobby. Parking will be very limited for the hotel; there will be 13 regular parking spaces plus 9 tandem parking spaces for 93 hotel rooms. Hotel guests will not self-park in the hotel. Most guests are not expected to have automobiles, but those that do arrive by car will parallel park in front of the historic hotel and their vehicle will be valet parked by hotel staff.

A colonnade extends along the south and west sides of the new addition. A ramp has been integrated into the west colonnade and the new colonnade connects to the existing hotel colonnade to provide ADA accessibility to the lobby. The hyphen will connect the existing lobby to the new hotel wing. This hyphen is located as far north as possible away from the primary south façade but still connect to the existing lobby. It will provide direct access to the new first floor restaurant as well as a new stair and elevator. The elevator will stop at all upper floors of the new wing and via the hyphen provide ADA accessibility to the existing second and third floor hotel rooms.

1. The height and scale of the proposed new construction shall be visually compatible with contributing resources in the district. *The north half of the new building is five-stories tall and steps down to four stories at the south half. The existing Cordova Inn is three stories tall. St. Petersburg College to the south is four stories tall. First United Methodist Church to the west is four stories tall, not including the bell tower. The Indigo Hotel to the north is three stories tall.*
2. The relationship of the width of the new construction to the height of the front elevation shall be visually compatible with contributing resources in the district. *The south façade of the new addition is four stories tall and is 45 feet wide; whereas the existing Cordova Inn is three stories tall and 42 feet wide. The south wall of the addition aligns with the south wall of the existing hotel.*

3. The relationship of the width of the windows to the height of the windows in the new construction shall be visually compatible with contributing resources in the district. *Punched openings in the south and west façades of the new addition are of a vertical proportion to relate to the existing hotel building and surrounding contributing structures. Guestrooms with porches along 3rd Street have larger sliding glass doors with mullions that are compatible with contributing structures and are recessed from the front façade by six feet.*
4. The relationship of solids and voids (which is the pattern or rhythm created by wall recesses, projections, and openings) in the front facade of a building shall be visually compatible with contributing resources in the district. *The first floor of the new addition has a colonnade along the south elevation that matches the existing colonnade. The south half of the west elevation has a series of columns defining a series of stacked porches similar to the existing Stanton Apartments. The window to wall ratio on the upper floors is similar to that of the existing Cordova Inn.*
5. The relationship of the new construction to open space between it and adjoining buildings shall be visually compatible with contributing resources in the district. *The footprint of the new addition is very similar to the existing footprint of the existing Stanton Apartments and Stanton Hotel that are being demolished. The new addition is separated from the existing Cordova Inn by 9'-4" at the south end of both buildings. The separation distance is 12'-0" at the location of the three-story hyphen that connects the two buildings. The new addition is located to maintain an urban condition along 2nd Avenue North but is separated far enough from the existing hotel to preserve its historic character as a separate building. The connecting corridor is set back 23 feet from the south façade.*
6. The relationship of the entrance and porch projections, and balconies to sidewalks of the new construction shall be visually compatible with contributing resources in the district. *As previously mentioned, the existing first floor south colonnade has been extended across the addition. The four stories of stacked porches on the new west façade have been inspired by the stacked porches of the existing Stanton Apartments.*
7. The relationship of the materials and texture of the facade of the new construction shall be visually compatible with the predominant materials used in contributing resources in the district. *The new addition is designed to utilize the same exterior finish materials and colors as the existing Cordova Inn building. The majority of the new exterior walls will be stucco painted white. The south elevation of the three-story hyphen facing towards 2nd Avenue North will have two large windows on each floor. The first floor of the hyphen is finished in stucco and the windows have semi-circular arches similar to the existing colonnade. The hyphen walls on the second and third floor are dark painted wood siding to provide a porch-like appearance as well as to visually recede.*
8. The roof shape of the new construction shall be visually compatible with contributing resources in the district. *The new addition has low-slope roofs with parapet walls to match the existing Cordova Inn. A mansard canopy extends around the south and half of the west facades of the new addition and is similar in scale and proportion to the existing mansard canopy on the Cordova Inn.*
9. Appurtenances of the new construction such as walls, gates and fences, vegetation and landscape features, shall, if necessary, form cohesive walls of enclosures along a street, to ensure visual

compatibility of the new construction with contributing resources in the district. *The south façade of the new addition aligns with existing Cordova Inn. The two wings are separated by a small landscaped area. The west elevation has been subdivided into three bays to reflect the scale of the existing buildings and vary in plane and height to reinforce the human scale character of the block. Architectural elements such as colonnades, porches, varying window shapes and railings provide visual compatibility between new and old.*

10. The mass of the new construction in relation to open spaces, the windows, door openings, porches and balconies shall be visually compatible with contributing resources in the district. *The horizontal and vertical scale of the new addition is articulated to be visually compatible with the existing Cordova Hotel building. The new colonnade matches the existing colonnade. New windows are similar in size and proportion to existing windows.*
11. The new construction shall be visually compatible with contributing resources in the district in its orientation, flow, and directional character, whether this is the vertical, horizontal, or static character. *As previously described, the footprint of the new addition aligns with the footprint of the existing buildings to be demolished and reinforce the pedestrian character of the adjacent sidewalks. The new addition has been subdivided into a composition of four and five story bays that are similar in scale to the existing condition.*
12. New construction shall not destroy historic materials that characterize the local landmark or contributing property to a local landmark district. The new construction shall be differentiated from the old and shall be compatible with the massing, size, scale, and architectural features to protect the historic integrity of the local landmark and its environment, or the local landmark district. *The new addition will not destroy any historic materials on the south facade of the Cordova Inn. The new addition is compatible in massing, size, scale, and architectural features.*
13. New construction shall be undertaken in such a manner that if removed in the future, the essential form and integrity of the local landmark and its environment would be unimpaired. *The new addition to the Cordova Inn is a separate building. A 6'-8" wide by 12'-0" long three-story hyphen connects the two wings and is the only place where the new building touches the existing building. In the future, if so desired, it would be relatively simple to remove the three-story connection and restore the disturbed portion of the west façade.*

End of narrative.

NOTE THAT THIS DRAWING MAY HAVE BEEN ALTERED IN SCALE BY REPRODUCTION

W.O. 6479

BOUNDARY & TOPOGRAPHIC SURVEY

SECTION 19, TOWNSHIP 31 SOUTH, RANGE 17 EAST
PINELLAS COUNTY, FLORIDA

ADDRESS:
253 2ND AVENUE NORTH
AND
211 AND 225 3RD STREET NORTH
ST. PETERSBURG, FLORIDA

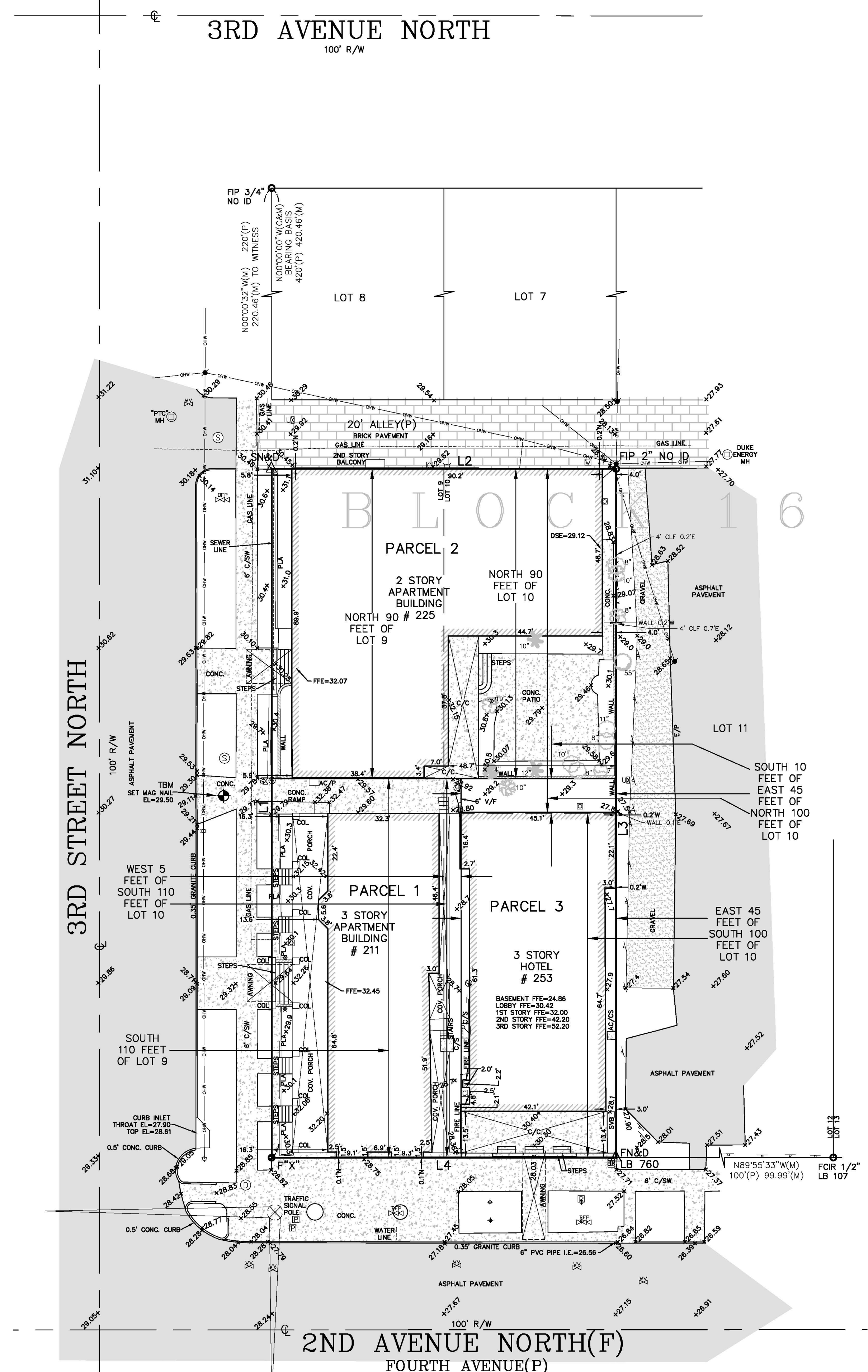
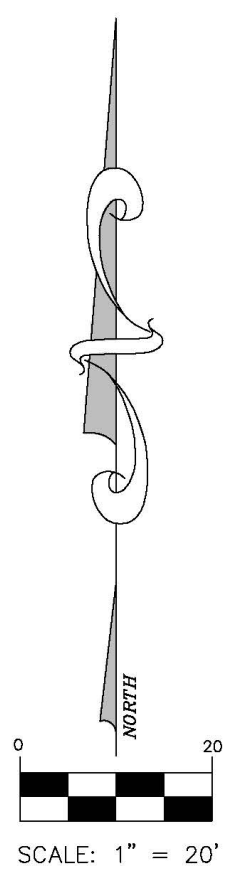
LEGAL DESCRIPTION:
PARCEL 1
SOUTH 110 FEET OF THE LOT NINE (9) AND THE WEST
5 FEET OF SOUTH 110 FEET OF LOT TEN (10), BLOCK
SIXTEEN (16), REVISED MAP OF THE CITY OF ST.
PETERSBURG, ACCORDING TO PLAT RECORDED IN PLAT
BOOK 1, PAGE 49, HILLSBOROUGH COUNTY RECORDS,
OF WHICH PINELLAS COUNTY WAS FORMERLY A PART.

AND
PARCEL 2
NORTH 90 FEET OF LOTS 9 AND 10, BLOCK 16,
REVISED MAP OF THE CITY OF ST. PETERSBURG,
ACCORDING TO THE PLAT THEREOF AS RECORDED IN
PLAT BOOK 1, PAGE 49, PUBLIC RECORDS
OF HILLSBOROUGH COUNTY, FLORIDA OF WHICH
PINELLAS COUNTY WAS FORMERLY A PART.

AND
PARCEL 3
THAT CERTAIN PARCEL OF REAL PROPERTY SITUATED
IN PINELLAS COUNTY, FLORIDA, AND DESCRIBED AS:

THE EAST 45 FEET OF THE SOUTH 100 FEET OF LOT
10, AND THE SOUTH 10 FEET OF THE EAST 45 FEET
OF THE NORTH 100 FEET OF SAID LOT 10, BLOCK 16,
REVISED MAP OF THE CITY OF ST PETERSBURG,
ACCORDING TO THE MAP OR PLAT THEREOF AS
RECORDED IN PLAT BOOK 1, PAGE 49, PUBLIC
RECORDS OF HILLSBOROUGH COUNTY, FLORIDA, OF
WHICH PINELLAS COUNTY WAS FORMERLY A PART.

TOGETHER WITH THAT CERTAIN EASEMENT FOR
ENCROACHMENT AS GRANTED IN THAT CERTAIN
EASEMENT AND DISCLAIMER AGREEMENT BY AND
BETWEEN MAYFAIR HOTEL CORPORATION, A FLORIDA
CORPORATION AND W. E. BATCHELLOR, JR., RECORDED
SEPTEMBER 10, 1987 IN O.R. BOOK 6578, PAGE 2030,
OF THE PUBLIC RECORDS OF PINELLAS COUNTY,
FLORIDA.



- SURVEY NOTES:**
- THIS SURVEY WAS PERFORMED WITHOUT THE BENEFIT OF A TITLE COMMITMENT, AND IS SUBJECT TO EASEMENTS, RIGHT-OF-WAY, AND OTHER MATTERS OF RECORD THAT A TITLE SEARCH MIGHT DISCLOSE.
 - PLANIMETRIC FEATURES SHOWN HEREON WERE DETERMINED BY STANDARD FIELD SURVEYING METHODS.
 - BEARING BASIS IS THE EAST RIGHT-OF-WAY LINE OF 3RD STREET NORTH BEING N00°00'00"W, ASSUMED.
 - ALL INSTRUMENTS SHOWN HEREON ARE OF THE PUBLIC RECORDS OF PINELLAS COUNTY, FLORIDA, UNLESS OTHERWISE SPECIFIED.
 - UNDERGROUND UTILITIES SHOWN HEREON ARE BASED ON SURFACE MARKINGS AND OR STRUCTURES. NO EXCAVATION WAS PERFORMED FOR THE LOCATION OF SUCH UTILITIES.
 - ADDITIONS OR DELETIONS TO THIS SURVEY MAP AND/OR REPORT BY OTHER THAN THE SIGNING PARTY OR PARTIES IS PROHIBITED WITHOUT WRITTEN CONSENT OF THE SIGNING PARTY OR PARTIES.
 - THIS PARCEL APPEARS TO BE IN FLOOD ZONE "X", ACCORDING TO THE FLOOD INSURANCE RATE MAP, MAP NUMBER: 12103C0219G, MAP EFFECTIVE DATE: 09/03/2003, AS PROVIDED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY.
THIS FLOOD ZONE NOTE IS PROVIDED FOR INFORMATIONAL PURPOSES ONLY. PROPOSED FINISHED FLOOR ELEVATIONS ARE TO BE DETERMINED BY THE PERMITTING AGENCY HAVING JURISDICTION.
 - LOCATIONS OF TREES SHOWN HEREON WERE LIMITED TO TREES 4" DIAMETER AT BREAST HEIGHT (DBH) OR LARGER. TREE LOCATIONS WERE LIMITED TO TREES SHOWN HEREON.
GEODATA SERVICES INC. CAN ACCEPT NO RESPONSIBILITY FOR THE IDENTIFICATION OF THE TREE SPECIES SHOWN HEREON. ALTHOUGH EVERY EFFORT HAS BEEN MADE TO PROPERLY IDENTIFY THE TREES SHOWN HEREON, TREE IDENTIFICATION IS OUTSIDE THE EXPERTISE OF A PROFESSIONAL LAND SURVEYOR. THE TREE TYPES SHOWN HEREON ARE FOR INFORMATIONAL PURPOSES ONLY AND SHOULD BE USED AFTER CONFIRMATION BY A CERTIFIED ARBORIST OR OTHER SUCH PROFESSIONAL.
 - ELEVATION BASIS: NORTH AMERICAN VERTICAL DATUM 1988 (NAD83) BENCHMARK UTILIZED: "FEDERAL H", PID NUMBER AG0512, ELEVATION = 34.64' AS PUBLISHED BY THE NATIONAL GEODETIC SURVEY.

LINE TABLE		
LINE	BEARING	LENGTH
L1	N00°00'00"W(C)	200.00'(P)
L1(M)	N00°00'06"E	200.00'
L2	S89°59'11"E(C)	100.00'(P)
L2(M)	N89°34'19"E	100.00'
L3(C)	S00°00'00"E	199.94'
L3(P)	---	200.00'
L3(M)	S00°00'39"E	199.65'
L4	S89°58'53"W(C)	100.00'(P)
L4(M)	S89°56'40"W	100.04'

- ABBREVIATION LEGEND**
- (C) = Calculated Data
 - (D) = Data per Description
 - (F) = Field Determined
 - (M) = Measured Data
 - (P) = Data per Plat
 - +/- = Plus or Minus
 - AC/CS = Air Conditioner on CAS
 - ACP = Air Conditioner on Platform
 - BR = Brick
 - CC = Covered Concrete
 - C/S = Concrete Slab
 - C/SW = Concrete Sidewalk
 - CL = Centerline
 - CLF = Chain Link Fence
 - COL = Column
 - COV = Covered
 - CLP = Concrete Light Pole
 - CMP = Corrugated Metal Pipe
 - CONC. = Concrete
 - DW = Driveway
 - DMH = Drainage Manhole
 - DSE = Door Sloop Elevation
 - DWM = Detachable Warning Mat
 - EP = Edge of Pavement
 - EL = Elevation
 - FCR = Found Iron Rod & Cap
 - FCM = Found Concrete Monument
 - FFE = Finished Floor Elevation
 - FIP = Found Iron Pipe
 - FIR = Found Iron Rod - No Cap
 - FN&D = Found Nail & Disk
 - FPP = Found Piped Pipe
 - FX = Found "X" Cut
 - GI = Grate Inlet
 - ID = Identification
 - I.E. = Invert Elevation
 - LP = License Plate
 - LFE = Lowest Floor Elevation
 - MF = Metal Fence
 - NFNS = Not Found and Not Set
 - ORW = Overhead Wire
 - O.R. = Official Records Book
 - P.B. = Plat Book
 - PCP = Permanent Control Point
 - PC(S) = Pipe(s)
 - PLA = Planter
 - PLS = Professional Land Surveyor
 - PRM = Permanent Reference Monument
 - PVC = Polyvinyl Chloride
 - R/W = Right-of-Way
 - RCP = Reinforced Concrete Pipe
 - SCR = Set Iron Rod & Cap 5/8" PLS #2865
 - SN&D = Set Nail & Disk PLS #2865
 - SMH = Sanitary Manhole
 - SVB = Sprinkler Valve Box
 - TBM = Temporary Benchmark
 - TYP = Typical
 - UP = Utility Pole
 - V/F = Vinyl Fence
 - W = Wall
 - W/F = Wood Fence
 - WM = Water Meter
 - W.O. = Work Order
 - WV = Water Valve

- TREE LEGEND**
- OAK
 - PALM
 - BANYAN
 - CAMPHOR
 - CHERRY
 - PODOCARPUS

- SYMBOL LEGEND**
- Backflow Preventor & Meter
 - Cable Box
 - Centerline
 - Cleanout
 - Double Check Valve Assembly
 - Light Pole
 - Light Post
 - Power Box
 - Sanitary Manhole
 - Sign
 - Spot Elevation
 - Utility Manhole
 - Utility Pole
 - Utility Vault
 - Water Meter
 - Water Valve

SURVEYOR'S CERTIFICATION:
I, DENNIS J. EYRE, THE SURVEYOR IN RESPONSIBLE CHARGE, HEREBY CERTIFY THAT THE SURVEY REPRESENTED HEREON AND THAT SAID ABOVE GROUND SURVEY AND SKETCH ARE ACCURATE TO THE BEST OF MY KNOWLEDGE AND BELIEF. SURVEY NOT VALID WITHOUT THE SIGNATURE AND ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.

DENNIS J. EYRE, P.L.S. FLA. REG. No. 2865
DATE: JUNE 18, 2021
AN UNSIGNED SURVEY DRAWING IS FOR INFORMATIONAL PURPOSES ONLY.

W.O. #6479	FIELD DATE: JUNE 10, 2021
DRAWN BY: HW	
CHECKED BY: DJE	
SCALE: 1"=20'	
FIELD BOOK / PAGE(S): 5-20/63,64	
SHEET 1 OF 1	

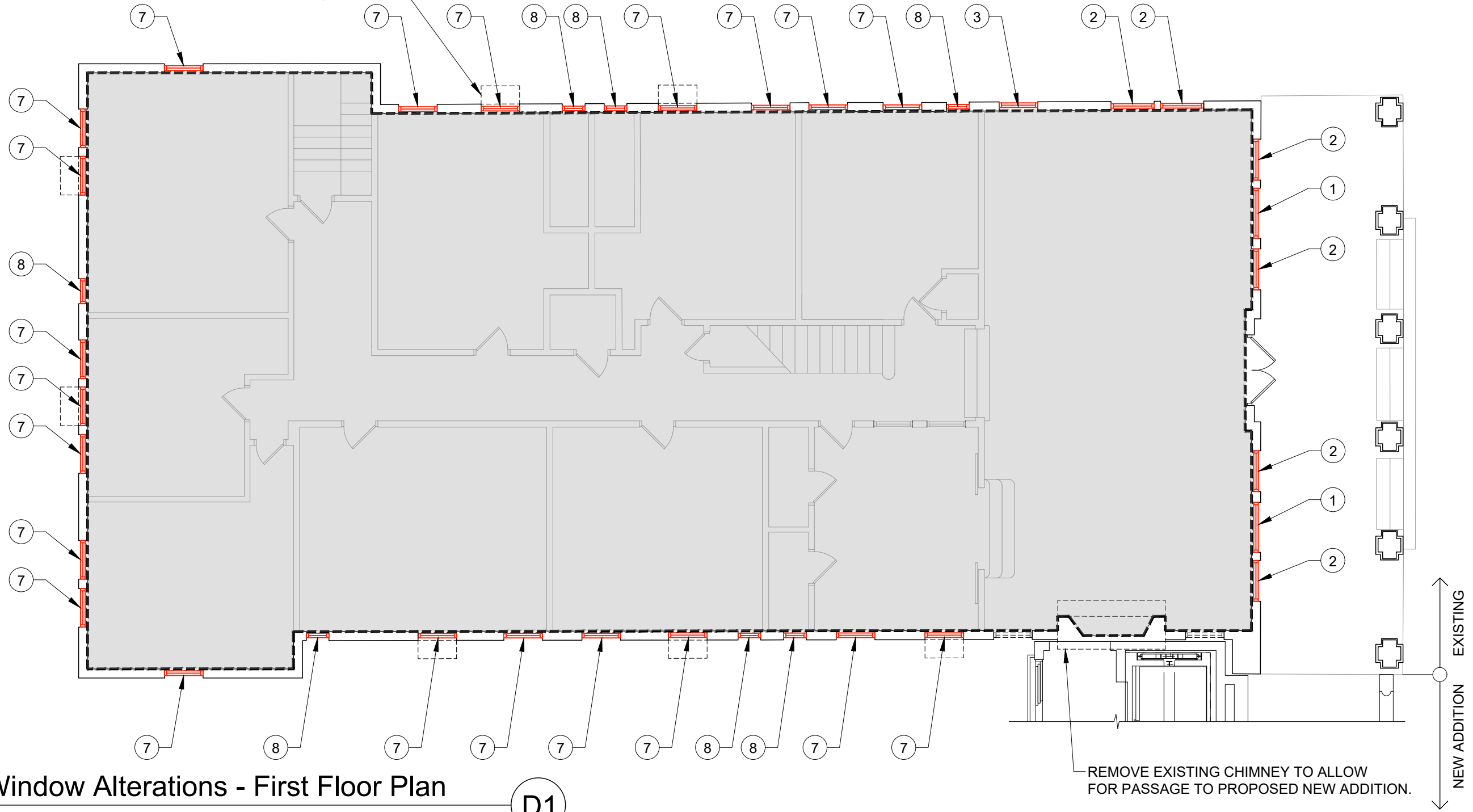
GEODATA SERVICES INC.
1166 KAPP DRIVE
CLEARWATER, FL 33765
PHONE: (727) 447-1763

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Layout: Jun 18, 2021 10:07am

NOTE THAT THIS DRAWING MAY HAVE BEEN ALTERED IN SIZE BY REPRODUCTION.

EXISTING WINDOW SCHEDULE (WINDOWS TO BE REPLACED)	NEW WINDOW BASIS OF DESIGN:	GENERAL NOTES:
① (12-OVER-1) SINGLE HUNG ② (9-OVER-1) SINGLE HUNG ③ (9-OVER-1) SINGLE HUNG ④ (6-OVER-1) SINGLE HUNG	MARVIN "ULTIMATE" ALUMINUM CLAD ENERGY STAR AND IMPACT-RATED SINGLE HUNG, WITH SIMULATED DIVIDED LITES TO MATCH EXISTING WINDOWS (WHICH VARY BY ELEVATION).	1. SEE PROPOSED WINDOW SCHEDULE (DRAWING D9) FOR INDIVIDUAL DIMENSIONS. 2. REMOVE ALL WINDOW-MOUNTED AIR CONDITIONING UNITS, TYPICAL.
⑤ (8-OVER-1) SINGLE HUNG ⑥ (6-OVER-1) SINGLE HUNG ⑦ (1-OVER-1) SINGLE HUNG ⑧ (1-OVER-1) SINGLE HUNG ⑨ FIXED		

WINDOW MOUNTED HVAC UNIT TO BE REMOVED, TYPICAL.



Window Alterations - First Floor Plan
 SCALE: 1/8" = 1'-0"

D1

EXISTING WINDOW SCHEDULE (WINDOWS TO BE REPLACED)	NEW WINDOW BASIS OF DESIGN:	GENERAL NOTES:
① (12-OVER-1) SINGLE HUNG ② (9-OVER-1) SINGLE HUNG ③ (9-OVER-1) SINGLE HUNG ④ (6-OVER-1) SINGLE HUNG	MARVIN "ULTIMATE" ALUMINUM CLAD ENERGY STAR AND IMPACT-RATED SINGLE HUNG, WITH SIMULATED DIVIDED LITES TO MATCH EXISTING WINDOWS (WHICH VARY BY ELEVATION).	1. SEE PROPOSED WINDOW SCHEDULE (DRAWING D9) FOR INDIVIDUAL DIMENSIONS. 2. REMOVE ALL WINDOW-MOUNTED AIR CONDITIONING UNITS, TYPICAL.
⑤ (8-OVER-1) SINGLE HUNG ⑥ (6-OVER-1) SINGLE HUNG ⑦ (1-OVER-1) SINGLE HUNG ⑧ (1-OVER-1) SINGLE HUNG ⑨ FIXED		

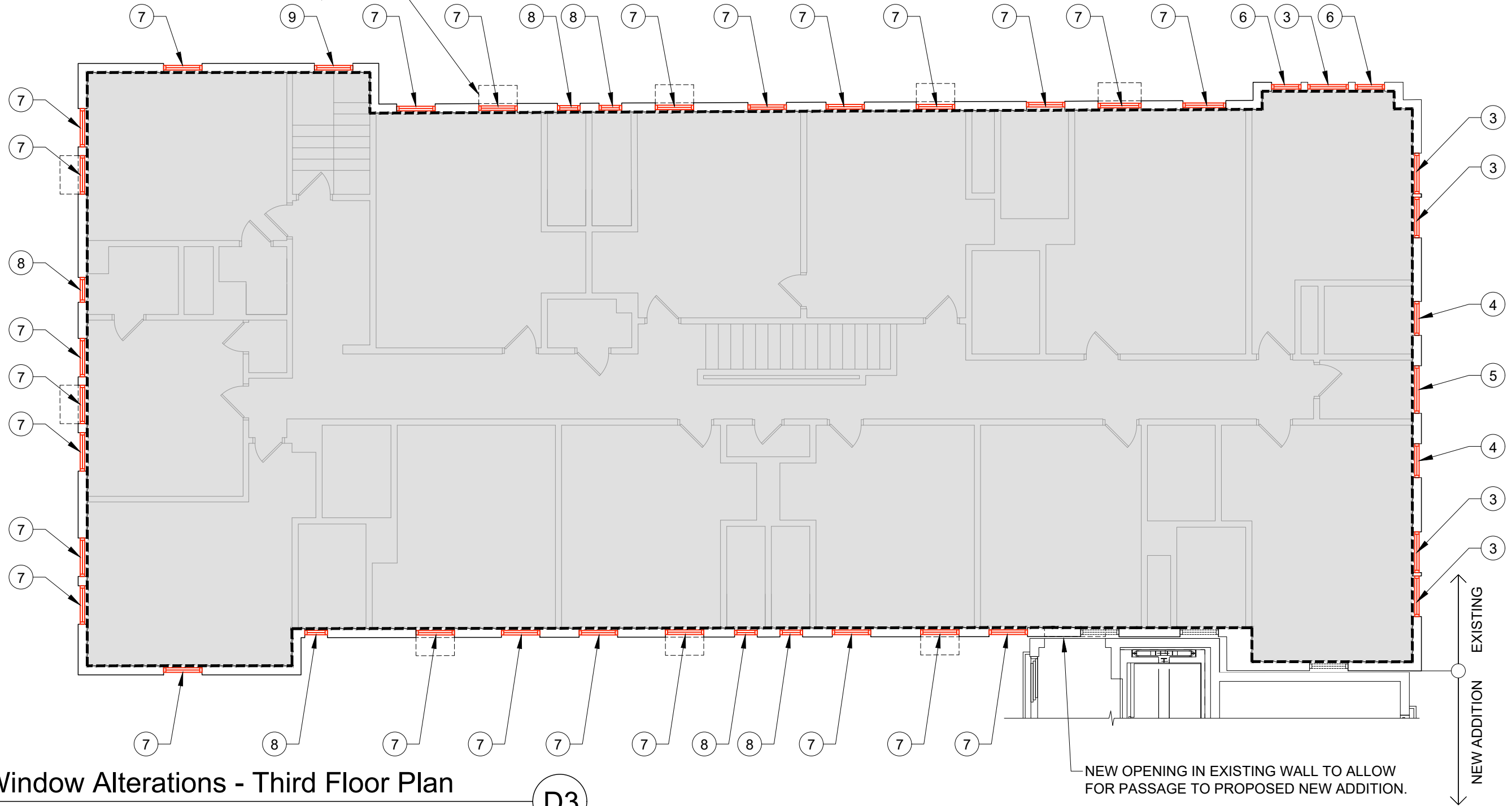
WINDOW MOUNTED HVAC UNIT TO BE REMOVED, TYPICAL.



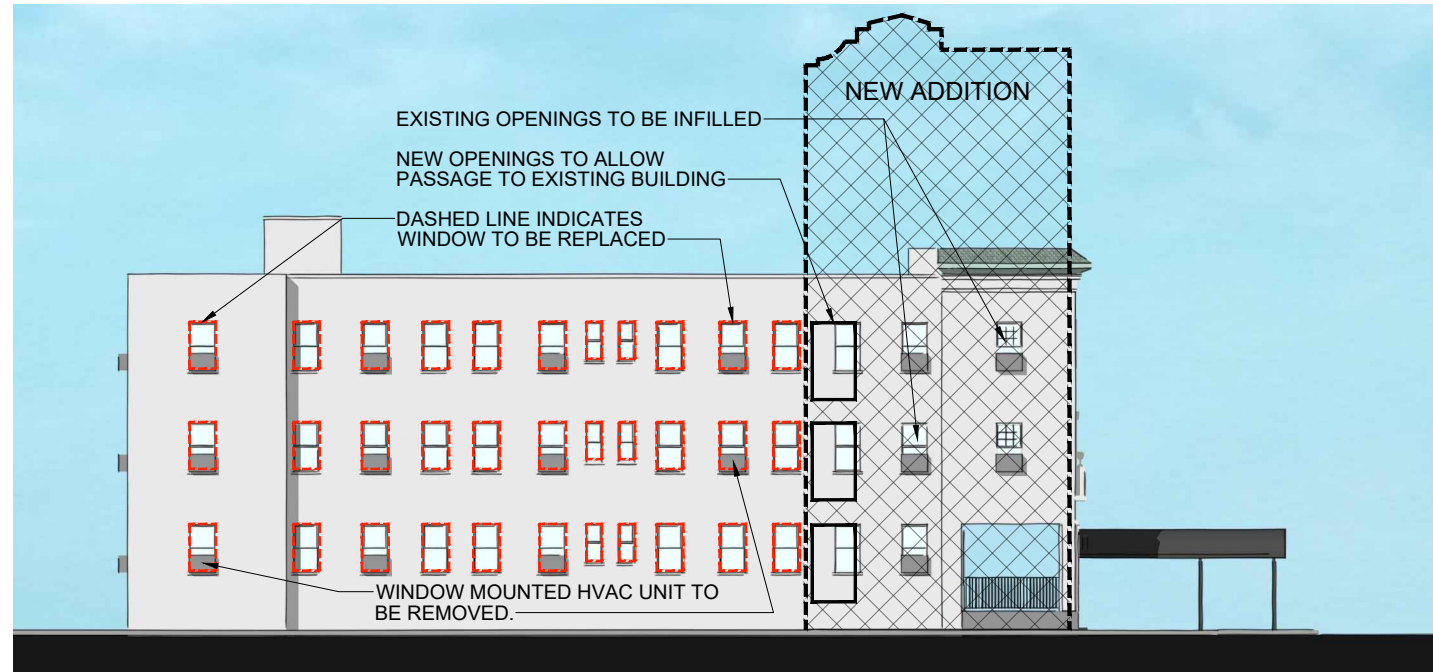
Window Alterations - Second Floor Plan D2
 SCALE: 1/8" = 1'-0"

EXISTING WINDOW SCHEDULE (WINDOWS TO BE REPLACED)	NEW WINDOW BASIS OF DESIGN:	GENERAL NOTES:
① (12-OVER-1) SINGLE HUNG ② (9-OVER-1) SINGLE HUNG ③ (9-OVER-1) SINGLE HUNG ④ (6-OVER-1) SINGLE HUNG	MARVIN "ULTIMATE" ALUMINUM CLAD ENERGY STAR AND IMPACT-RATED SINGLE HUNG, WITH SIMULATED DIVIDED LITES TO MATCH EXISTING WINDOWS (WHICH VARY BY ELEVATION).	1. SEE PROPOSED WINDOW SCHEDULE (DRAWING D9) FOR INDIVIDUAL DIMENSIONS. 2. REMOVE ALL WINDOW-MOUNTED AIR CONDITIONING UNITS, TYPICAL.
⑤ (8-OVER-1) SINGLE HUNG ⑥ (6-OVER-1) SINGLE HUNG ⑦ (1-OVER-1) SINGLE HUNG ⑧ (1-OVER-1) SINGLE HUNG ⑨ FIXED		

WINDOW MOUNTED HVAC UNIT TO BE REMOVED, TYPICAL.



Window Alterations - Third Floor Plan D3
 SCALE: 1/8" = 1'-0"



D7 Existing West Elevation
SCALE: 1" = 20'-0"



D8 Existing North Elevation
SCALE: 1" = 20'-0"



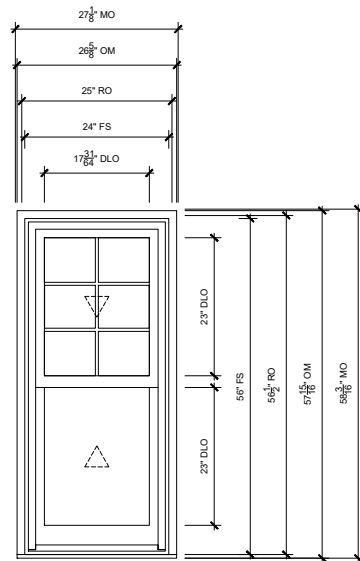
D5 Existing East Elevation
SCALE: 1" = 20'-0"



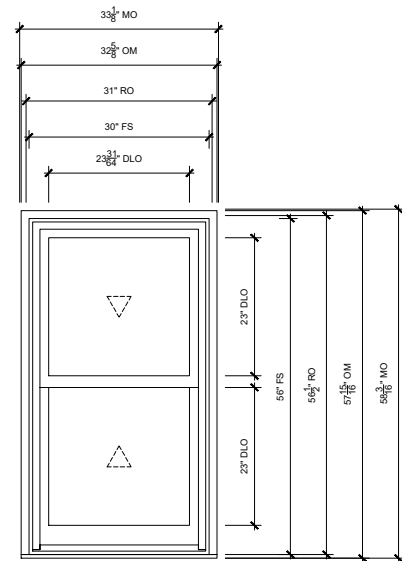
D6 Existing South Elevation
SCALE: 1" = 20'-0"

GENERAL NOTES:

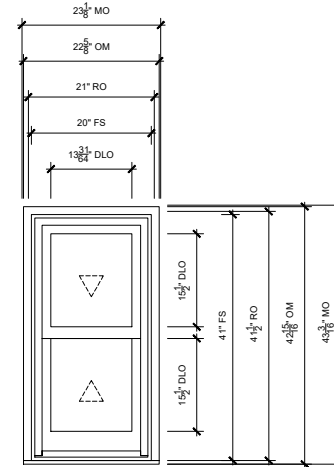
1. SEE DRAWING D10 FOR EXISTING WINDOW DETAILS AND DRAWING D11 FOR PROPOSED WINDOW DETAILS.



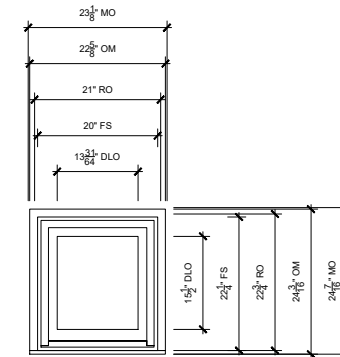
**WINDOW TYPE: 6
(6-OVER-1) SINGLE HUNG**



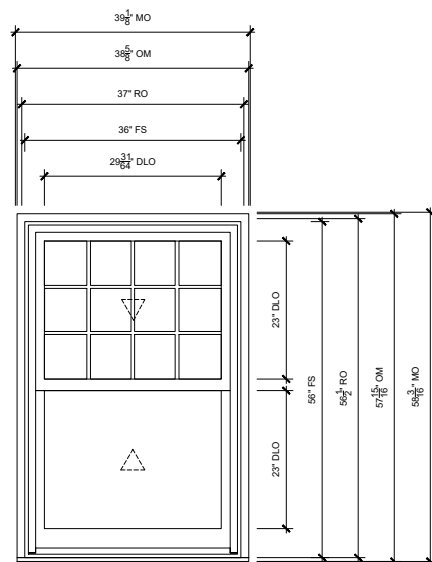
**WINDOW TYPE: 7
(1-OVER-1) SINGLE HUNG**



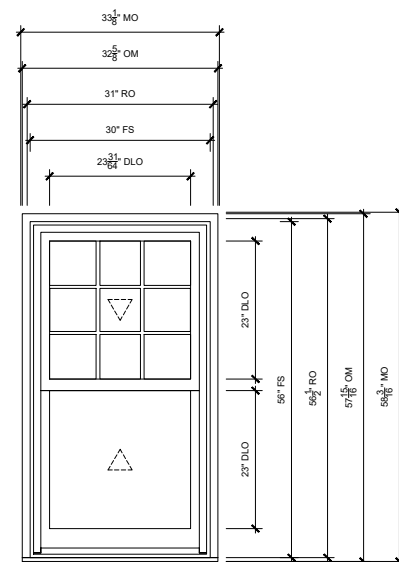
**WINDOW TYPE: 8
(1-OVER-1) SINGLE HUNG**



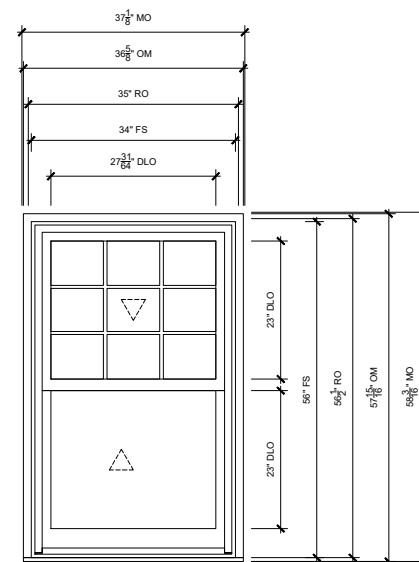
**WINDOW TYPE: 9
FIXED**



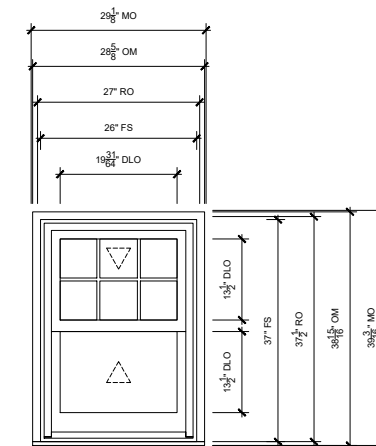
**WINDOW TYPE: 1
(12-OVER-1) SINGLE HUNG**



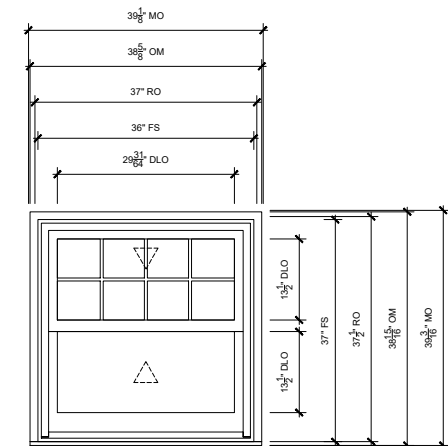
**WINDOW TYPE: 2
(9-OVER-1) SINGLE HUNG**



**WINDOW TYPE: 3
(9-OVER-1) SINGLE HUNG**

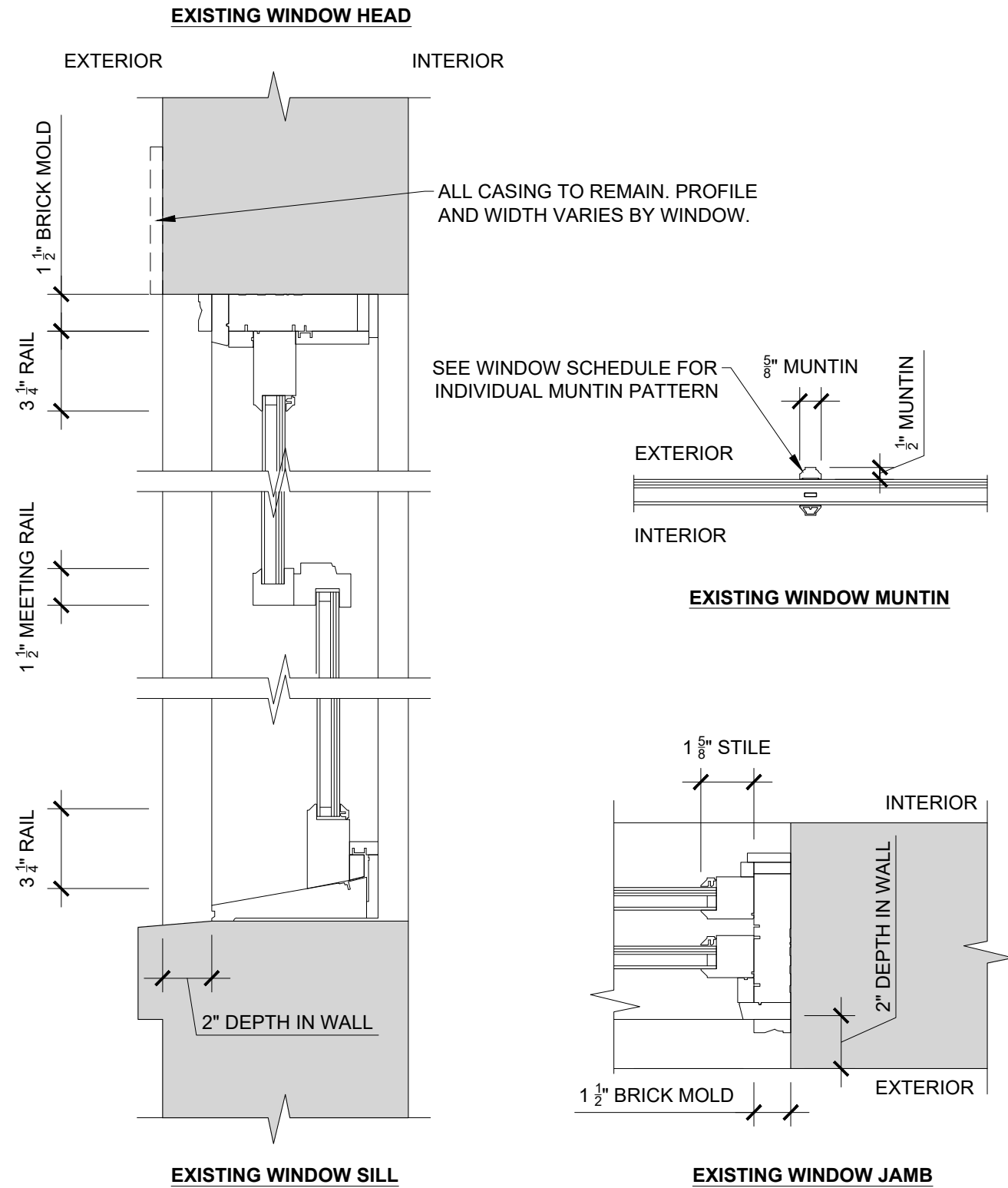


**WINDOW TYPE: 4
(6-OVER-1) SINGLE HUNG**

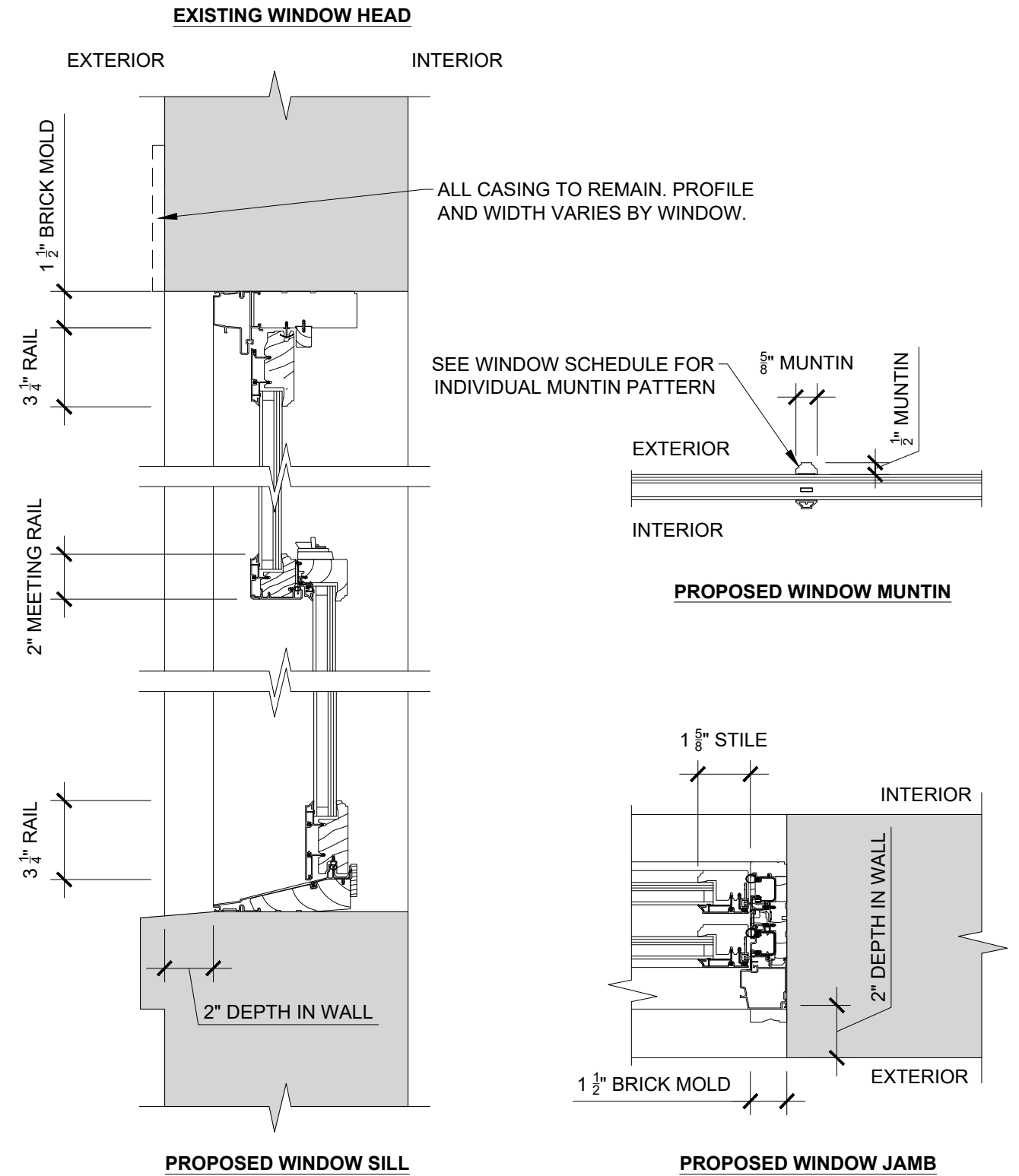


**WINDOW TYPE: 5
(8-OVER-1) SINGLE HUNG**

D9 Proposed Window Schedule
SCALE: 3/8" = 1'-0"



D10 Existing Window Detail
SCALE: 2" = 1'-0"



D11 Proposed Window Detail
SCALE: 2" = 1'-0"



D12 Photograph of Existing Window
NOT TO SCALE



D13 Photograph of Proposed Window
NOT TO SCALE



P1 Photo #1 - Existing South Elevation
NOT TO SCALE



P2 Photo #2 - Existing East Elevation
NOT TO SCALE

WINDOW MOUNTED HVAC UNIT
TO BE REMOVED, TYPICAL.



P3

Photo #3 - Existing North Elevation

NOT TO SCALE


WINDOW MOUNTED HVAC UNIT
TO BE REMOVED, TYPICAL.



P4

Photo #4 - Existing West Elevation

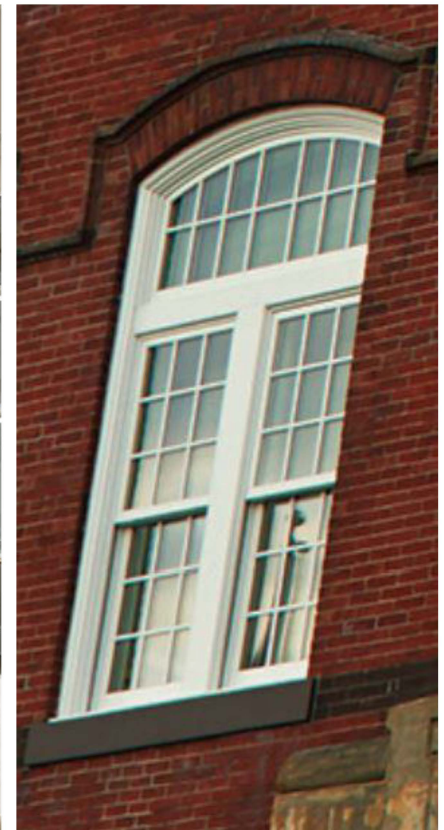
NOT TO SCALE

A photograph of a modern building with large blue-framed windows and a garden in the foreground. The building has a light blue metal exterior and large glass windows that reflect the surrounding greenery. The garden in the foreground is lush with green plants and flowers. A yellow semi-transparent box is overlaid on the left side of the image, containing the text "Marvin Double Hung for Historic Replacement".

Marvin Double Hung for Historic Replacement

Marvin Double Hung

Assemblies can add space mull to match rope and pulley systems





NARROW FRAME AND CHECKRAIL

DIVIDED LIGHTS AND CASINGS

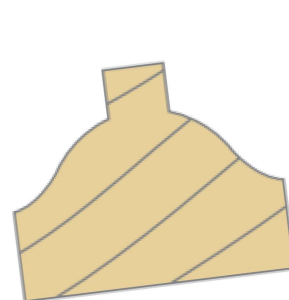


SIMULATED DIVIDED LITE (SDL)

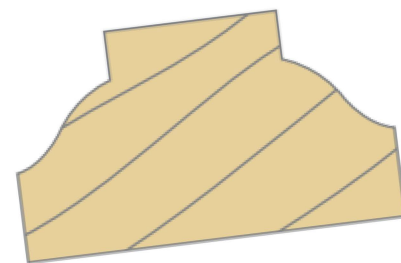
SDL bars are permanently adhered to both sides of the glass. Simulated Divided Lites with Spacer Bars (SDLs) are an energy-efficient way to create the look of authentic divided lites.



BRICK MOULD CASING WITH A246 SUBSILL



5/8"



7/8" (DEFAULT WIDTH)

Existing

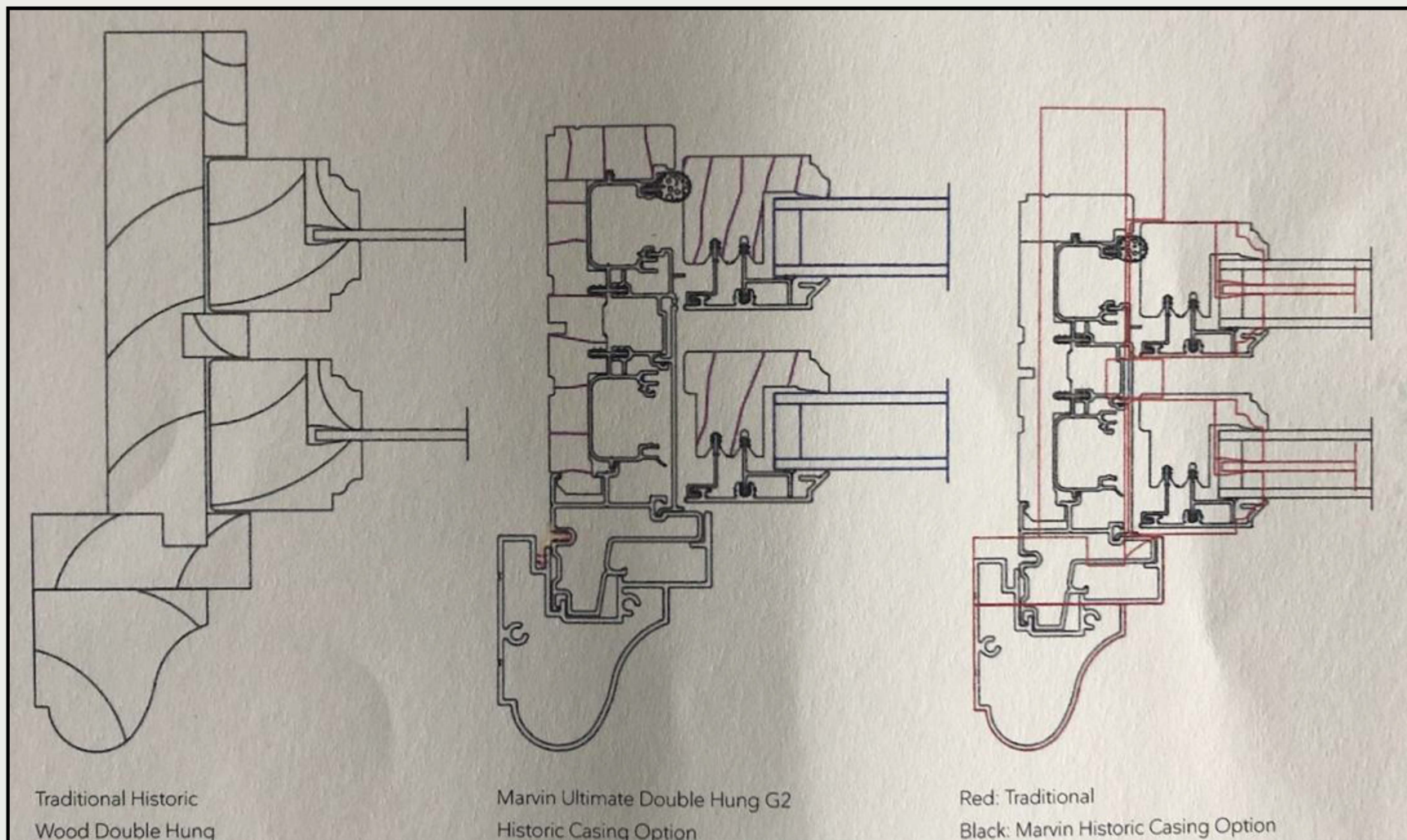


Marvin Ultimate



SIDE BY SIDE

DETAIL WITH BRICK MOLD CASING TRADITIONAL & MARVIN



Introduction and Product Performance (Ultimate)

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How to Use this Manual

Manual Objectives:

The content of this manual will aid in understanding the wide variety of standards, codes, and regulations governing the use of windows and doors. Consumer-friendly information on a variety of highly-rated Marvin Window and Door products along with fenestration standards, including glazing, clad finishes, hardware, and overall product performance can be used to help your clients understand what products best fit their project needs.

Intended Audience:

This manual is primarily intended for professionals who:

- Provide shop drawings, sales and service to customers
- Write job specifications
- Need further product knowledge

Sources of Additional Help:

- Marvin Architectural Hotline: 1-800-346-3363
- Our Website: www.marvin.com
- CSI Specifications
- Installations Instructions
- Warranty Information
- Care and Maintenance
- Owner's Manual
- Parts Manual

The Online version of this document is the document of record and will be the most current version. Specifications and technical data are subject to change without notice.

This manual is designed to make Marvin Windows and Door product knowledge easy to find and utilize. Used in conjunction with the Marvin Price Guide and Marvin Parts Manual, it will provide a library of Information on Marvin Products.

Each Window and Door Product has a collection chapter that covers general unit features. All individual chapters have product specific features. The line entries of the TOC are linked to a specific page for assistance in locating necessary information.

Product Notes:

- Numbers in parentheses () following measurements are metric equivalents in millimeters rounded to the nearest whole number
- Allow 1/16" (2) tolerance on all measurements
- For accessories, dimensions and applications, see the Accessories section of this manual
- All measurements for Rough Opening, Masonry Opening, Frame Size, Casing OM are rounded to the nearest 16th of an inch. Rounded Fraction for Glass Size, Daylight Opening, OM of Combination or Energy Panel, Storm Sash or RO Spring line are to the nearest 32nd of an inch
- E = (Egress): Window that meets the requirements for Egress. Please note that the top of the sill must be no more than 44" (1118) from the floor. Code restrictions may vary depending on your local building codes
- T = (Tempered): For safety and/or code requirements, frame size greater than 71 1/8" (2924) tall, Marvin recommends tempered glass. Units with Frame 25.2 sq. ft. and larger may require tempered glass

Trademark Information:

The following trademarks are referenced in this manual:

- E-Gard[®] is a registered trademark of Truth Hardware

How to Submit Suggestions:

Comments or suggestions regarding this publication can be directed to: Technical Publications, Marvin Windows and Doors, P.O. Box 100, Warroad, MN 56763 or call (218) 386-1430 or 1-800-346-5044.

Top Level Abbreviations

Marvin Product Abbreviations

General Term

CN	Call Number
CNR	Corner Units
COMB	Combination
CR	Condensation Resistance
DLO	Daylight Opening
DP	Design Pressure
EP	Energy Panel
EXT	Exterior
EYE	Eyebrow
FCIR	Full Circle
FELP	Full Ellipse
FPAN	Flat Panel
FS	Frame Size
GOTH	Gothic Head
GS	Glass Size
GTH	Gothic
HCIR	Half Circle
HP	High Performance
IG	Insulating Glass
INACT	Inactive (X)
INST	Installed
LF	Lineal Feet
LH	Left Hand
LPS	Low Profile Sill
LT	Lite
MO	Masonry Opening
MPT	Multi-Point
MRF	Mull Reinforcement
OCT	Octagon
OSM	Outside Measurement
OPER	Operator (X)
PG	Performance Grade
PROJ	Projection
QCIR	Quarter Circle
QELP	Quarter Ellipse
QEYE	Quarter Eyebrow
RAD	Radius
RO	Rough Opening
RPAN	Raised Panel
SCR	Screen
SG	Single Glaze
SGL	Single
SHGC	Solar Heat Gain Coefficient
SL	Sidelite
SO	Sash Opening
SPEC	Special

SPLN	Springline
ST	Stationary (O)
TRDL	Traditional
VGR	Vertical Grain
VLТ	Visible Light Transmittance
W	Wood
W	Wide - Always preceded by number wide
WDW	Window

Doors

CBD	Combination Door
DRTR	Door Transom
SCD	Screen Door
SD	Swinging Door
SDDG	Swinging Door Direct Glaze
UIFD2.25	Ultimate Inswing French Door 2 1/4"
UIFD	Ultimate Inswing French Door
UIFDSL	Ultimate Inswing French Door Sidelite
UIFDTR	Ultimate Inswing French Door Transom
UOFD2.25	2 1/4" Residential Outswing French Door
UOFD	Ultimate Outswing French Door
UOFDSL	Ultimate Outswing French Door Sidelite
UOFDTR	Ultimate Outswing French Door Transom
UIFD2.25AT	Ultimate Inswing French Door 2 1/4" Arch Top
UOFD2.25AT	Ultimate Outswing French Door 2 1/4" Arch Top
UIFDAT	Ultimate Inswing French Door Arch Top
UOFDAT	Ultimate Outswing French Door Arch Top
UWSPDINT	Ultimate Wood Sliding Patio Door Interior
USPD	Ultimate Sliding Patio Door
UWSFDINT	Ultimate Wood Sliding French Door Interior
USFD	Ultimate Sliding French Door
USFDTR	Ultimate Sliding French Door Transom
ULSD	Ultimate Lift and Slide Door
ULSD PKT	Ultimate Lift and Slide Pocket Door
ULSD STK	Ultimate Lift and Slide Stacked Door
UCD	Ultimate Commercial Door (1 3/4")
UCDTR	Ultimate Commercial Door Transom
UCDDGTR	Ultimate Commercial Door Direct Glaze Transom
UCD2.25	Ultimate Commercial Door 2 1/4inch
UMSD	Ultimate MultiSlide Door
UMSDSTK	Ultimate MultiSlide Door Stacked
UMSDPKT	Ultimate MultiSlide Door Pocket
UBFLD	Ultimate Bi-Fold Door

Top Level Abbreviations

		Options			Swinging Windows
ADL	Authentic Divided Lites		UWTTCAI	Ultimate Wood Tilt Turn Casement Inswing	
BAY	Bay		UTTHOP	Ultimate Tilt Turn Hopper	
BOW	Bow		UTT	Ultimate Tilt Turn	
BMC	Brick Mould Casing		UAWN	Ultimate Awning	
CBRNT	Cabernet - Stain Finish		UAWNNF	Ultimate Awning Narrow Frame	
CIF	Clear Interior Finish		UAWNNFP	Ultimate Awning Narrow Frame Picture	
CSG	Casing		UAWNPO	Ultimate Awning Push Out	
ESPR	Espresso - Stain Finish Grilles-		UAWNPOP	Ultimate Push Out Awning Picture	
GBG	Between-the-Glass		UAWNNFPO	Ultimate Awning Narrow Frame Push Out	
			UAWNNFPOP	Ultimate Awning Narrow Frame Push Out Picture	
HNY	Honey - Stain Finish		UCA	Ultimate Casement	
HZLNT	Hazelnut - Stain Finish		UCABAY	Ultimate Casement Bay	
LTHR	Leather - Stain Finish		UCABOW	Ultimate Casement Bow	
PIF	Painted Interior Finish		UCAP	Ultimate Casement Picture	
SIF	Stained Interior Finish		UCAPOLY	Ultimate Casement Polygon	
SDL	Simulated Divided Lite		UCART	Ultimate Casement Round Top	
TEMP	Tempered		UCAVP	Ultimate Casement Venting Picture	
TG	Tripane Glass		UCANF	Ultimate Casement Narrow Frame	
WHT	Wheat - Stain Finish		UCANFP	Ultimate Casement Narrow Frame Picture	
WOCD	Window Opening Control Device		UCANFTR	Ultimate Casement Narrow Frame Transom	
		Sliding Windows	UCAPO	Ultimate Casement Push Out	
UDHTP	Ultimate Double Hung Tilt Pac		UCAPOP	Ultimate Casement Push Out Picture	
USHTP	Ultimate Single Hung Tilt Pac		UCANFPO	Ultimate Casement Narrow Frame Push Out	
UDHMTP	Ultimate Double Hung Magnum Tilt Pac		UCANFPOP	Ultimate Casement Narrow Frame Push Out Picture	
USHMTP	Ultimate Single Hung Magnum Tilt Pac		UFCA	Ultimate French Casement	
UDHIN	Ultimate Double Hung Insert		UFCAPO	Ultimate French Casement Push Out	
UDHINP	Ultimate Double Hung Insert Picture		UFCANFPO	Ultimate French Casement Narrow Frame Push Out	
INDT	Ultimate Insert Double Hung Transom				
UDHM	Ultimate Double Hung Magnum				Stationary Windows
UDHMP	Ultimate Double Hung Magnum Picture		DG	Direct Glaze	
UDHMRT	Ultimate Double Hung Magnum Round Top		OCT	Octagon	
UWDHMTR	Ultimate Wood Double Hung Magnum Transom		PDG	Polygon Direct Glaze	
USHM	Ultimate Single Hung Magnum		PENT	Pentagon	
USHG2	Ultimate Single Hung G2		POLY	Polygon	
UDHG2	Ultimate Double Hung G2		RECT	Rectangle	
UDHPG2	Ultimate Double Hung Picture G2		RT	Round Top	
UDHRTG2	Ultimate Double Hung Round Top G2		TRI	Triangle	
UDHTRG2	Ultimate Double Hung Transom G2				
USHRTG2	Ultimate Single Hung Round Top G2				
UGL	Ultimate Glider				
UGLP	Ultimate Glider Picture				
UGLTS	Ultimate Glider Triple Sash				

Top Level Abbreviations**Clad Colors**

SW	Stone White
PB	Pebble Gray
SA	Sierra White
CO	Coconut Cream
CS	Cashmere
CG	Cadet Gray
BN	Bahama Brown
EG	Evergreen
HS	Hampton Sage
CC	Cascade Blue
BZ	Bronze
EB	Ebony
WB	Wineberry
MSL	Bright Silver (pearlescent)
MCP	Copper (pearlescent)
MLB	Liberty Bronze (pearlescent)
CY	Clay
GM	Gunmetal
SE	Suede

Interior Shades

ALMD	Almond
BSCT	Biscuit
CELR	Cellular
CELRFLT	Cellular Light Filtering
CELRBL	Cellular Blackout
CHPN	Champagne
CNM	Cinnamon
CNTPRY	Contemporary
DENIM	Denim
DRFTW	Driftwood
EGGSH	Eggshell
IVORY	Ivory
MOSS	Moss
MGLD	Marigold
RSE	Rose
SHD	Shade
SLV	Silver
ST	Stone
TAN	Tan
TRDL	Traditional
WH	White

Glossary of Terms

ALUMINUM SURROUND: The aluminum frame around a screen or energy panel.

APRON: A piece of casing or decorative trim installed against the wall immediately beneath the stool of a window.

ARGON GAS: An inert gas known for its ability to provide insulating properties in IG air spaces.

ASTRALGAL: A moulding applied to one stile of a French Door, Sliding French Door or Ultimate French Casement window unit which the other door panel or window sash strikes. Usually head and foot bolt devices will be found on the astragal side.

ASSEMBLY: A collection of single units mull together.

AUTHENTIC DIVIDED LITE (ADL): Also known as True Divided Lite. Permanent stationary muntins and bars separate the glass in a window sash or door panel to give the sash two or more lites of glass.

AWNING WINDOW: A combination of frame and sash, hinged at the top of the vertical jambs which allows the unit to pivot from the top with the sash opening to the exterior of the building.

BALANCES: Any system of block and tackle or spiral springs used in the jamb liner of double hung or single hung units to counter-weight the sash and allow for easier opening and top sash retention.

BARS: A narrow rabbeted, member in a divider system to create a series of divided lites in the daylight opening of the sash or panel. ADL, GBG, and SDL Spacer bars must be connected to the rails and stiles. SDL without spacer bars may be freely attached to the glass without contacting rail and stile. Bars can be assembled into a variety of patterns including grids, radius, diamond, Queen Anne, etc.

BAY WINDOWS: A series of windows installed in a “bay” which is two flanker units and a center sash; a “bay” may be an arc or a polygon; when a “bay” is or closely approaches an arc, the window is termed a “bow” See Bow Windows.

BOW WINDOWS: A series of adjoining window units, installed on a radius.

BRICK MOULD CASING (BMC): An exterior moulding of window and door frames that butts the exterior facing material of the structure. The casing serves as the boundary moulding for brick or other siding material and also helps to form a rabbet for screens and/or storm sash or a combination door.

CAM LOCK: A lever operated lock which is used to prevent intrusion through the sash. Cam locks and keepers were installed on the jambs and stiles of older Casement and awnings.

CAM PIVOT: A zinc pivot pin attached to the top and bottom sash stiles of double hung units (bottom sash on single hung units). Cam pivots rest on the clutch system of the balance tube assembly which allow opening and closing of the sash.

CAPILLARY TUBES: A tube inserted into the insulating glass spacer that allows the inside and outside air pressure to equalize in higher elevations. Capillary tubes will allow gas fills other than air to escape.

CASEMENT WINDOW (CA): A vertical hinged window system consisting of a frame, sash weather strip, locks, hinges and an operating crank device, on operating units. Push Out models are optionally available.

CHECK RAIL: The horizontal members of a double hung sash that are designed to mate with the check rail of the paired sash. These could also be vertical check stiles, as in the glider or patio door.

CLAD (C): Marvin clad products refer to wood window and door parts which are covered with an extruded permanent colored aluminum jacket on the exterior side of the frame and sash.

CLAD BRICK MOULD CASING (BMC): A clad extrusion designed to simulate brick mould casing for Marvin clad products.

CLEAR OPENING (CO): The opening created when the window or door is completely open.

CLUTCH: The plastic and metal assembly on which the cam pivots of a double hung or single hung sash rest. The clutch is attached to the balance system which allow opening and closing of the sash. The clutches are color coded for easy identification of balance strength.

COMBINATION DOOR: An aluminum frame assembly containing an interchangeable glass storm panel and screen. The unit is installed on the exterior of the door, and is available for wood Inswing and Ultimate Inswing French doors.

COMBINATION WINDOW: A wood or clad wood frame storm sash with self-storing screen. Bottom glass panels such as those installed on a double hung unit operate by moving the plungers in and sliding the glass panel up to the desired position. Side glass panels such as those installed on gliders slide to the left or right to the desired position. All inserts are removable from the inside.

COMMERCIAL DOOR: A door which specifically targets the non-residential market and may not meet WDMA standards for water penetration. This door comes standard with an 11 3/8" (289) bottom rail and a 1/2" (13) low profile sill allowing it to meet ADA codes.

CONDENSATION RESISTANCE (CR): Measures the ability of a product to resist the formation of condensation on the interior surface of that product. The higher the CR rating the better it resists forming condensation.

COTTAGE WINDOW: A double or single hung window with the top sash smaller than the bottom sash.

DAYLIGHT OPENING (DLO): The width and the height of the visible glass.

Glossary of Terms

DEPTH OF THE JAMB: The point where the exterior casing ends to the point where the interior casing begins. On clad units, the point from the backside of the nailing fins to the interior of the frame.

DESIGN PRESSURE (DP): Is a rating system that is based on testing for structural performance under static air pressure. Water leakage, air leakage, operating force and forced entry must also comply to attain a DP rating.

DIRECT GLAZE (DG): Refers to a stationary window with no sash where the glass is glazed directly into the frame.

DIVIDED LITES: See Authentic Divided Lites or Simulated Divided Lites.

DOUBLE HUNG (DH): A window unit with two movable sash which operate by sliding vertically. Double hung sash are retained in position with the use of balancing devices.

DOUBLE HUNG MAGNUM (DHM): Larger size Double hung windows. Double hung magnum windows have two movable sash which operate vertically. Double hung magnum sash are held in an open position with the use of balancing devices.

DOUBLE HUNG TILT PAC (DHTP): A specially designed, made-to-order, package which includes everything needed to replace double hung sash and hardware in an existing frame without changing the frame. This product has the same tilt feature as the Marvin double hung.

DRIP CAP: A formed aluminum or vinyl piece which is installed at the top of windows and doors that allows water to run off the casing of the unit instead of seeping around the casing and into the unit.

DUAL GLAZE: An IG with two panes of glass.

EGRESS: Refers to an escape opening in a room designated as a sleeping area. Windows and doors must meet a minimum size requirement to qualify as an egress product.

ELECTRIC OPERATOR: An electrically operated device which will open Casement or awnings units by using a switch. This is used in lieu of a roto gear crank or pole crank.

EMISSIVITY: A measure of a surface's ability to emit long-wave infrared radiation or room temperature radiant heat energy. Emissivity varies from 0 (no emitted infrared) to 1 (100% emitted infrared). The lower the emissivity, the lower the resultant U-Factor and the better insulating performance of the material.

ENERGY PANEL (EP): Formerly called an RDG - removable double glazing, is a piece of glass annealed or tempered, and finished on the edges by a surround. EPs are applied to windows or doors and rest on the glazing stop. EPs offer the homeowner added energy efficiency over single glazed units.

ESCUTCHEON: A decorative door handle plate attached to the stile directly behind the handle(s). Generally square or rectangular shaped.

ESPAÑOLETTE: Tilt-Turn hardware which houses the gear mechanism for the Tilt--Turn, in-swinging casement and hopper handles.

EXTRUSION: A linear component of plastic or metal made by the process of heating the raw material and forcing it through a die as it cools to provide a specific cross-sectional shape.

FENESTRATION: Anything designed to fill an opening in a structure. Used in our industry to specifically apply to doors and windows.

FIELD MEASUREMENT GUIDE: A form that is filled out prior to ordering the Clad Magnum Double Hung Replacement System with Panning to ensure the correct sized unit is assembled at the factory.

FINGER-JOINT: A series of fingers machined into the ends of two pieces of lumber to be joined together. They are then held firmly in position by adhesive. Finger-jointed wood is very strong and has a lesser chance of warping than does a non finger-jointed piece of wood the same length.

FLANKER: A former term used to describe a side or lateral part. Also previously used to describe the side units in a 3-wide picture unit or bay. See two-wide entry.

FLAT CASING: Flat-surfaced on four sides, pieces of pine of various widths and thicknesses for trimming door and window openings. The casing serves as the boundary moulding for siding material and also helps to form a rabbet for screens and/or storm sash or combination doors.

FOAM PLASTIC INSULATING SHEATHING (FPIS): an insulating board

FOOT BOLT: A locking rod device installed vertically in the stile or astragal of a door or screen which when activated secures the panel or screen in a stationary position.

Glossary of Terms

FRAME: The stationary portion of a window that encloses either the glass (direct glaze) or the sash (operating or stationary) and consists of the following parts:

1. **HEAD JAMB:** The top frame member.
2. **SILL:** The bottom frame member.
3. **SUB-SILL:** The supplemental member used under most awning and casement units as an additional sill with the primary purpose being to hold multiple units together at the sill.
4. **SIDE JAMB:** Side or vertical frame members.
5. **JAMB EXTENSION:** The addition onto the standard jamb to adapt a window unit to deeper wall thicknesses, in most cases will be factory applied unless specified otherwise.
6. **BRICK MOULD OR FLAT CASING:** The exterior trim member applied to the side jambs and head jamb on wood units. Often used to secure the window to the wall opening.
7. **BLIND STOP:** The frame member on a double hung window located between the jambs and the casing. The blind stop forms a rabbet that supports either a storm sash or screen.

FRAME EXPANDER: A flat aluminum extrusion used in conjunction with the 90 degree frame expander to provide a flat casing appearance for clad units.

FRENCH DOOR: A glass door consisting of moderate width top rail and stiles with a larger bottom rail. Doors available in either in-swing or out-swing operation. Can be rectangular or arched style top.

GLASS SIZE (GS): The measurement of the actual glass, not the visible glass.

GLAZING: Installing glass into windows and doors.

1. **SINGLE GLASS -** Glazing with a single piece of glass.
2. **INSULATING GLASS -** two or more panes of glass separated by a spacer and hermetically sealed together with dead air space between the panes.

GLAZING BEAD: Strips of profiled wood or vinyl used to hold the glass in position in the sash. Wood glazing bead is attached to the rails and stiles of the sash using staples, small nails or vinyl barbs. A vinyl bead is held in place by extruded barbs positioned in the kerf. Aluminum caps may be used over the vinyl bead in some cases.

GLAZING TAPE: A two sided adhesive tape placed between the glass rabbet and the glass and/or the glazing bead and glass of some unit types.

GLIDER (GL): Horizontal operating units which have one or more sash that glide open and shut horizontally.

HANDING: A term used to describe the right or left hand operation of a window or door.

HEAD BOLT: A locking rod device installed vertically in the stile or astragal of a door or screen which when activated secures the door in a stationary position.

HISTORICAL OR HISTORIC: A term used to define a window or door product meeting the requirements of historical renovation standards. This product may not meet all WDMA and ENERGY STAR[®] criteria.

IG: Insulating glass (see Glazing)

INACTIVE PANEL (X): Secondary operating door panel.

DOUBLE HUNG INSERT: A specially designed, made-to-order sash and frame unit that is used to replace existing double hung sash and hardware in an existing frame - without disturbing existing interior trim or exterior casing.

INSTALLATION BRACKETS: A factory installed or supplied metal strip with holes used with windows or doors to attach the unit in the rough opening in lieu of nailing through the casing, thus eliminating unsightly nail holes. Available as an option for all Marvin wood windows or door products.

INSWING FRENCH DOOR (IFS): A French Door with panels that swing to the inside. One, two, three and four panel units available as stationary or operating.

INSULATING GLASS (IG): A glass assembly with two or more panes of glass sealed with a perimeter spacer.

INTERIOR CASING: The casing trim used on the interior perimeter of the window or door. Generally supplied by others except in the case of round top casing which is a factory supplied option.

JAMB EXTENSION: A jamb-like member usually surfaced on four sides, which increases or extends the depth of the exterior or interior window or door frame. Common jamb depths are 4 9/16" (116), 4 13/16" (122), 5 1/16" (129), 5 3/16" (132), and 6 9/16" (167).

JAMB LINER (wood): A strip of wood that goes on the inside of a window frame to provide a snug fit and finished look to the window. The birds' beak jamb extension is added to this piece to accommodate various wall thicknesses.

Glossary of Terms

KEYED CYLINDER LOCK: A lock providing an exterior entry and locking convenience.

KRYPTON GAS: An inert gas known for its ability to provide insulating properties in smaller IG air spaces.

LAMINATED GLASS: Glass composed of two sheets of glass fused together with a sheet of transparent plastic between the sheets. When broken, laminated glass will generally not leave the opening and is often used as safety or security glazing.

LAMINATED VENEER LUMBER (LVL): An engineered wood product that uses multiple layers of thin wood assembled with adhesives. It offers several advantages over typical milled lumber: it is stronger, straighter, and more uniform. It is much less likely than conventional lumber to warp, twist, bow, or shrink due to its composite nature.

LAMINATING: A method of gluing strips of thin non finger-jointed wood to the lengthwise surfaces of finger-jointed material to provide the appearance of non finger-jointed stock.

LEVER LOCK: A lever handle and lever arm operator available as an option on awning units.

LOCKSET: A complete door lock system comprised of the lock mechanism together with knobs, keys, plates, strikes and other accessories.

LOW E GLASS: Low E stands for low emissivity. The lower the emissivity the higher the percentage of long wave radiation blocked thereby improving thermal performance. Low E glass is coated with a thin microscopic, virtually invisible, metal or metallic oxide layer. The primary function is to reduce the U-factor by suppressing radiative heat flow. A secondary feature is the blocking of short wave radiation to impede heat gain. There are two basic types of Low E glass. The first, vacuum or sputter coated Low E, is referred to as softcoat (See Low E2 definition). The second is pyrolytic Low E, commonly referred to as hardcoat. (See pyrolytic definition.)

LOW E1: A high performance Low E coating, providing excellent balance for cold winters and warm summers. It offers increased solar heat gain coefficient values allowing heat from the winter sun to enter while reducing heat loss to the exterior. The Low E1 coated glass products are specifically designed for insulating glass units normally as a third surface coating.

LOW E2: A high performance Low E2 glass, providing excellent winter and center of glass temperatures. It offers reduced solar heat gain coefficient values providing customers cool summer glass temperature. Additionally, ultraviolet light transmission is greatly reduced. The Low E2 coated glass products are specifically designed for insulating glass units normally as a second surface coating. See Low E and pyrolytic definitions.

LOW E3: A high performance Low E glass, providing the best winter U-factor and center of glass temperatures. It offers extremely low solar heat gain coefficient values providing customers a summer glass temperature that is very low. Additionally, it provides the best reduction in ultraviolet light transmission.

LOW ERS: A hardcoat Low E coating for the indoor IG surface, providing excellent heat reflectance. When used in conjunction with an E2 or E3 coating, it provides exceptional thermal properties – approaching that of a tripane unit with two LOW E coatings. The Low ERS coated glass reflects additional heat back to the room. The effectiveness of this coating causes the interior surface of the glass to cool and additional condensation may be noticed.

LOW ELR: A high performance Low E coating, providing the lowest Solar Heat Gain Coefficient with a slightly darker tint. It offers very good U-factor performance with excellent glare control. This product meets requirements for the “turtle code”. It provides the best reduction in ultraviolet light transmission.

LOW PROFILE SILL: Also referred to as saddles, these sills have no more than a 1/2" (13) rise. Low profile sills are required when a door opening must meet codes associated with the Americans with Disabilities Act.

MAGNUM: A Marvin trade name for heavily constructed window products which are designed for applications where a heavy duty product is necessary.

MAGNUM HOPPER (MHOP): A heavy duty window designed to hinge on the bottom and tilt into the room for ventilation purposes.

MAGNUM TILT-TURN (MTT): A heavy duty window. The Magnum Tilt-Turn has hardware which allows the sash to either be tilted into the room from the sill or swing fully open into the room.

MASONRY OPENING (MO): A brick, stone or block opening into which a window or door unit is installed. Exterior casing may cause the Masonry Opening to be larger than the Rough Opening.

MEETING STILES: The vertical members of a glider sash or sliding door panel that are designed to mate with the meeting stile of the paired sash.

MORTISE AND TENONING: The system by which Marvin assembles authentic divided lite units, a projecting tenon on either the muntins or bars fit snugly into a mortise in either a bar, stile or rail.

Glossary of Terms

MULLING: The act of attaching two or more window or door units together. The joint is then finished with a mullion center cap or mull trim.

MULLION: The vertical member of a sash, window or door frame between openings in a multiple opening frame.

1. **SPACE MULL** - Two or more units mull together with a space left between the units. The jamb extension surrounds the entire unit.
2. **STUD POCKET** - Two or more units mull together with a space between the units. The jamb extension surrounds each unit separately, providing space for a support member between the units.

MULLION COVER: A clad cover for space mull usage that covers a range from 3" (76) minimum to 10" (254) maximum width.

MULLION EXPANDER: An aluminum extrusion designed specifically for the Clad Magnum Double Hung Replacement System with Panning to allow the existing panning to be expanded to a wider width to accommodate a larger rough opening.

MULLION REINFORCEMENT: A system of high-strength members placed between units of an assembly and fastened to the RO and the units to provide enhanced structural performance. 3/8" (10) Aluminum, 1" (25) LVL, and various tube mullion options are available for most products.

MULTI-POINT LOCKING SYSTEM: A line of standard or optional multiple point locking mechanisms installed on the operative panel(s)/ sash of various Marvin products to enhance security and performance.

MUNTINS OR "MUNT": A short "bar," horizontal or vertical, extending from a bar to a stile or rail or another bar.

NAILING FIN: A factory installed vinyl strip that is inserted into a kerf in the frame of clad units. Nailing fin is designed to provide easier clad unit installation in new construction where the highest structural performance is not required.

NON-KEYED LOCK: A handle without a keyed cylinder. The door cannot be locked or unlocked from the exterior.

ORIOLE WINDOW: A double or single hung window with the bottom sash smaller than the top sash.

OBSCURE GLASS: (Pattern 62) A pattern glass that provided privacy while maintaining full light transmission. It is formed by running molten glass through special rollers that apply the pattern to one side.

OUTSIDE MEASUREMENT (OM): The measurement in width from outside of jamb to outside of jamb. Height measurement from top of jamb to bottom of sill. The outer edges of what is being measured.

ONE WIDE (1W): The current term used to describe one frame with single or multiple sash or panels.

OPERATOR (X): An operating sash, panel or unit.

OUTSWING FRENCH DOOR (OFD): A French door with panels that swing to the outside. One, two, three, or four panel units available as stationary or operating.

OX and XO: The letters OX or XO identify the operation of window or door units as viewed from the exterior. The letter O stands for stationary while the letter X stands for operating.

PANEL: An assembly of stiles and rails with glass that form the stationary or operating section of the door and is fitted in the frame.

PANNING: A term used to describe the aluminum covering extrusion components (i.e. jambs, sill and head jamb) used for the Clad Magnum Double Hung Replacement System with Panning.

PART STOP: A strip of wood with weather strip attached which prevents air and water infiltration. Part stops are commonly found at the head jamb of a double hung unit.

PERFORMANCE CLASS: A methodology to grade product performance types.

R = Residential, LC = Light Commercial, CW = Commercial, AW =Architectural

PERFORMANCE GRADE (PG): A numeric designator that defines performance that applies to; air leakage resistance, water penetration resistance and deflection resistance according to Standard Specifications.

PITCH: A term used to describe the angle of a roof. For example: A 4-12 pitch indicates that the roof rises 4" (102) vertically for each 12" (305) horizontally.

POLE CRANK: An extension pole used to open or close awnings or casements which would otherwise be inaccessible because of their height.

POLYGON (POLY): A high level term used to describe any shape with three or more straight sides. Typical fenestration shapes are triangles, trapezoids, pentagons, hexagons and octagons.

PRIMER: The first coat of paint in an application that is intended to prepare the surface for better adhesion by additional coats of paint.

PULTRUSION: Lineal profiles of constant cross section manufactured by combining plastic resin and continuous glass fiber reinforcement. These thermally insulating and structural components are ideally suited for applications where strength, thermal stability and weather resistance are required.

Glossary of Terms

RABBET: A groove along or near the edge of a piece of wood.

RADIUS: The length of an imaginary line from the center point of a circle to the arc or circumference of a circle.

RAILS: The cross or horizontal members of the framework of a sash, door or other panel assembly.

RELIEF KERF: Kerfs machined into the frame parts of a unit. Relief kerfs inhibit warping.

REMOVABLE MULLION: A metal component available for two panel Commercial Doors. Anchored to the header and the sill, it separates the single opening into two, the mullion can be removed to allow furniture to be easily moved through the opening.

RETRO: Retro sizing refers to units which are sized for replacement purposes.

RIM DEVICE: May also be referred as panic hardware, a rim device spans the door panel. A push bar retracts the latch allowing for quick egress.

ROLLED ALUMINUM: A term used to describe aluminum profiles for screen and energy panel surrounds which are fabricated by the use of a roller or series of rollers to produce a desired profile. All other Marvin profiles are fashioned by the extrusion method.

ROLLER CAM: The adjustable roller devices of the Multi-Point hardware installed on the sash of the French Casement unit. When adjusted properly with an Allen wrench, they ensure a tight seal between the sash and frame members.

ROSE: A circular cover plate attached to the stile directly behind a knob or door handle. May be plain or have a decorative design embossed into the cover.

ROTO-GEAR: A term used to describe the steel drive worm, gears and crank device used for opening awning and casement windows.

ROUGH OPENING (RO): The opening in the wall where a window or door unit is to be installed. Openings are larger than the size of the unit to allow room for insulation, shimming and squaring of the unit.

ROUND TOP (RT): Any window unit with a radius frame member. The most common shape is a semicircle window with a horizontal sill which may be mulled to the top of another window or door. Round tops can be used separately or combined with other units to create a seemingly endless selection.

SASH: An assembly of stiles and rails with glass that form the stationary or operating section of the window and is fitted into the frame. Double Hung sash also contain check rails. The operating and/or stationary portion of the window unit that is separate from the frame. The sash consists of the following parts:

1. STILES - Vertical sash members.
2. RAILS - Horizontal sash members.
3. CHECK RAILS - Horizontal sash members that meet, as in double hung units. These could also be vertical check stiles, as in the glider or patio door.
4. BARS - Divisional members extending from rail to rail or from stile to stile in an authentic divided lite unit.
5. MUNTINS - Divisional members extending from a bar to a rail or stile or another bar.

SASH LIMITER: An optional metal device which attaches to an Ultimate Casement sill and bottom rail which limits the sash to a specified opening -5, 10, 15 or 20 degrees.

SASH LOCK: A device which holds a window shut and prohibits it from being opened from the outside.

SASH OPENING (SO): The opening between wood frame members for both height and width (disregarding any jamb hardware tracks). This measurement is used predominantly when measuring an opening for the Double Hung Tilt Pac.

SASH RETAINER PLATE: A flat plate used on double hung and Magnum Double Hung sash to secure the bottom sash.

SASH WIDTH: Horizontal measurement across the face of a sash.

SCISSOR STAY: An optional piece of hardware for the Tilt-Turn window which is attached to the header and top rail corner drive on the handle side to limit the travel of the sash when operated in the tilt mode. It is automatically disengaged when the sash is swung in the turn mode.

SCREEN OM (outside measurement): The width and the height of a screen including wood or metal surrounds.

SCREENS (full and half): A close-mesh woven screen material of metal or fiberglass attached to an aluminum or wood surround. Screens inhibit entry of insects, yet permit light, air and vision. Most Marvin window and door products utilize full screens. Half-screens are available for single hung units.

SEQUENTIAL LOCKING SYSTEM: An exclusive Marvin design used on Ultimate Casement for locking the sash to the frame. The action is sequential where the lower lock activates first moving the sash to the weather strip; the top then engages to snug the sash to the frame.

SIDELITE: A stationary glass panel mulled to or installed next to a door.

SILL: The horizontal member forming the bottom of a window or exterior door frame; the lowest member of the frame of a structure, resting on the foundation and supporting the frame.

Glossary of Terms

SILL HORN: The extension of the “lip” of a window sill to the outside edge of the casing.

SINGLE HUNG (SH): A window unit with two sash with a bottom sash that operates by sliding vertically and is retained in position with the use of balancing devices. The top sash is stationary.

SLIDING FRENCH DOOR (SFD): A sliding door utilizing French door style panels.

SLOT AND TENON: The method of machining profiles into the ends of stiles and rails in order to produce strong sash frame corners.

SLOPE: The measure of the tilt of a line; rise over run.

SNUBBER: An interlocking metal bracket attached at the center of the hinge side of a Casement sash and frame with certain heights and both sides of an awning sash and frame with certain heights. It allows operation but pulls the sash tightly against the frame weather strip to maximize performance when closed.

SOLAR HEAT GAIN COEFFICIENT (SHGC): The ratio of the solar heat gain entering the space through the fenestration product to the incident solar radiation. Solar heat gain includes directly transmitted solar heat and absorbed solar radiation which is then re-radiated, conducted, or convected into space. The lower a window's SHGC, the less solar heat it transmits to the interior, and the greater its shading ability.

SPACER: A perimeter member of an IG used to separate and seal two more pieces of glass.

SQUARE FOOT (Sq. Ft.): For measuring the area of a unit. RO width (inches) x RO height (inches) divided by 144 equals the area in square feet of a unit.

STARBURST: A semi-elliptical area, the lower center is the point where the dividing spokes meet and radiate outward. May be constructed of glazed sash, ADLs, GBGs or SDLs.

STATIONARY (O): A non-operating sash, panel or unit.

STATIONARY SASH BRACKET: A bracket used to secure stationary Ultimate Casement and Ultimate Awning sash to the frame. The sash can be removed for replacement by removing the wood stops and bracket screws.

STILES: The upright or vertical perimeter pieces of a sash, panel or screen.

STOOL: A horizontal trim member that laps the window sill above the apron and extends beyond the interior casing. See apron entry.

STORM SASH: A wood framed assembly containing non-removable glass. The storm sash is removed during the summer and replaced with a wood framed screen.

STRUCTURAL MASONRY BRACKETS: An installation bracket used with multiple high/wide window units or large doors for added structural support. The brackets are also used to attach the unit in the rough opening in lieu of jamb screws or nailing through the casing.

STRUCTURAL ROUGH OPENING EXTENSION (SROE): an-add-on (bump-out) to the structural framing at the rough opening to support the window and allow window alignment with exterior plane of FPIS. The add-on shall be suitable for structural attachment of window.

SUNBURST: A semi-elliptical area, the lower center of which contains a sun-like figure with sun rays radiating there from. May be constructed of glazed sash with inverted radii, ADLs or SDLs.1

SURROUND: An attractive, protective trim which is secured to an energy panel by an adhesive or vinyl barb to give the glass panel a safe finished edge. Also the aluminum framework for most standard screens.

TEMPERED GLASS: Float glass panels heated and then cooled rapidly in a controlled environment. This process makes the glass several times stronger than regular glass. It also makes it safer because when broken it yields small pebble-like fragments.

TEMPLATE: A pattern of a window unit or opening from which dimensions and measurements can be determined. Round Tops require templates for replacement units.

THREE WIDE (3W): Current term referring to any product or unit when three frames (i.e. separate jambs) are mulled together as a multiple unit.

TILT PAC (TP): See Double Hung Tilt Pac

TRANSOM: A window above a window or door. Transoms can be either stationary or operating.

TRIPANE: An IG with three panes of glass.

TURN BUTTON: A vinyl or aluminum button and screw. Buttons are used to secure wood combinations, storm sash and wood screens to the exterior casing or energy panels to the sash or door panel.

TURN RESTRICTOR: A device used on a Magnum Tilt-Turn to provide friction to the sash when in the swing position.

TWO WIDE (2W): Current term referring to any product or unit when two frames (i.e. separate jambs) are mulled together as a multiple unit.

Glossary of Terms

ULTREX: A pultruded composite material made of polyester resin and glass fibers with an acrylic cap on primary surfaces.

U-FACTOR: (Btu/hr.-sq. ft. - *F.) A measurement of the amount of heat flow through a product. The lower the U-factor, the greater the resistance to heat flow and better its insulating value.

UV BLOCKAGE: Low E glass options will screen out ultraviolet waves while allowing visible light into a structure, reducing fading damage to interior surfaces.

UNIT: One single product such as a one-wide casement.

VENT OPENING: The total opening created when a door or window is completely open.

VINYL GLAZING BEAD: A vinyl extrusion used on clad units which serves the same purpose as a wood glazing bead for wood units.

VISIBLE LIGHT TRANSMITTANCE (VT): Percentage of visible light transmitted through the unit.

WARM EDGE SPACER: A spacer designed to minimize heat transference between layers of insulating glass.

WATER RESISTIVE BARRIER: A material behind an exterior wall covering that is intended to resist liquid water that has penetrated behind the exterior covering from further intruding into the exterior wall assembly.

WEATHER STRIP: A strip of resilient material designed to seal the sash and frame members in order to reduce air and water infiltration.

WINDOW OPENING CONTROL DEVICE (WOCD): A device that controls a window sash opening to be opened with normal operation of the sash such as to prohibit the free passage of a four inch (102mm) diameter rigid sphere at the lowest opening portion of the window opening, with a release mechanism that allows the sash to be opened to a larger opening area as required for emergency escape and rescue, and that automatically resets when the window sash is fully closed.

WIRE GLASS: Glass with wire embedded into the glass when the glass is still in a molten state. This prevents the shattered glass from falling out of the sash if it should break.

XO: See OX entry.

Unit Features on Windows and Doors

Marvin offers an assortment of products and features to fit your window and door requirements. Each product offers similarities that allow multiple products to be positioned in your project and look similar yet distinctive. Below is a collection of the similar characteristics you will find throughout our product lines. For product specific features, refer to the collection or individual chapters for additional information.

Aluminum Frame and Sash:

- Exterior: Extruded aluminum .050"(1.3) thick
- Standard colors: Stone White, Bahama Brown, Bronze, Pebble Gray, Evergreen, Ebony, Wineberry, Sierra White, Coconut Cream, Cashmere, Cadet Gray, Hampton Sage, Cascade Blue, Bright Silver (pearlescent), Copper (pearlescent), Clay, Gunmetal, Liberty Bronze (pearlescent), or Suede
 - Custom colors are available, please contact your Marvin representative
- Interior: Standard is treated pine bare wood
- Optional species: mixed grain Douglas fir, mahogany, vertical grain Douglas fir, cherry and white oak
 - Cherry and white oak are available on parts towards the interior on clad units only
- The Wood is dried to a moisture content of 12% or less

Wood Frame and Sash:

- The wood is dried to a moisture content of 12% or less
- Exterior and Interior: Standard is treated pine bare wood
- Optional species: mahogany, and vertical grain Douglas fir
- Cedar Dress Option
 - Brick Mold and Flat Casing
 - Subsill
 - Mull Covers
- See [Ultimate Wood Double Hung Collection Chapter](#) for additional Cedar Dress options

Interior Finish Options:

- Prime: Factory applied enamel primer
 - Available on Pine products only
- Painted Interior Finish (PIF): Factory applied water-borne acrylic enamel paint applied over compatible primer
 - Available on pine products only.
 - Available colors: White or Designer Black
- Clear Interior Finish (CIF): Factory applied water-borne acrylic enamel clear coat. Applied in two separate coats with light sanding between coats.
 - Available on pine, mahogany, mixed grain Douglas fir, vertical grain Douglas fir, cherry, and white oak
- Stain Interior Finish (SIF): Factory applied water-borne stain. Stain applied over a wood (stain) conditioner. A water-borne acrylic enamel clear coat applied on two separate coats, with light sanding between coats, applied over the stain
 - Available on pine, mahogany, mixed grain Douglas fir, vertical grain Douglas fir, cherry, white oak
 - Colors available: Wheat, Honey, Hazelnut, Leather, Cabernet, and Espresso

Interior Jamb Extension:

- Jamb extensions are available for various wall thickness factory applied up to 14" (356) wide
 - Finish to match interior
- Jamb extensions over 7 9/16" (192) will be edge glued, 4 11/16" (119) jamb extension will be shipped loose

Insect Screen:

- Standard Screen is roll formed aluminum with Charcoal Fiberglass screen mesh
 - Optional screen mesh is Charcoal High Transparency Fiberglass Mesh, Charcoal Aluminum Wire, Black Aluminum Wire, Bright Aluminum Wire, or Bright Bronze Aluminum Wire
- Interior screen colors: Satin Taupe, Bronze, White or Ebony
- Exterior screen will match the clad frame color
 - See Clad and Wood Swinging Door Collection chapters for sliding and swinging screen options.
- Optional wood interior screen for Casement products.
- Optional wood screen for wood exterior Double Hung windows.
- Optional Double Hung Magnum, extruded aluminum, screen for Ultimate Double Hung products.

Standard Features on Windows and Doors:**Simulated Divided Lites (SDL):**

- Bar (interior and exterior): 5/8" (16), 7/8" (22), 1 1/8" (29), 1 15/16" (49), 2 13/32" (61) wide bars
- Exterior:
 - Clad units match the exterior clad color
 - Wood Units match the wood species
- Interior:
 - Pine wood standard
 - Finish to match interior
- Insulated glass units available with or without aluminum spacer in airspace
- Pattern: Rectangular, diamond, custom lite layouts available, contact your Marvin representative

Grilles-Between-the-Glass (GBG):

- 23/32" (18) white contoured aluminum bar
- Exterior Colors: Stone White, Sierra White, Coconut Cream, Evergreen, Pebble Gray, Ebony, Bronze, Bahama Brown, Wineberry, and Cashmere
 - The exterior GBG color is designed to best match the Marvin clad colors when used with Low E glass
 - The use of different types of glazing options may alter the exterior GBG color appearance
- Interior Colors: White, Bronze, Pebble Gray, Sierra, and Ebony (only available with Ebony exterior)
- Optional flat aluminum bar (5/8") available
 - Exterior and Interior Colors: White, Sand Stone, Dark Brown, Dark Bronze, Green, Bright Gold, Champagne, and Light Bronze

Authentic Divided Lite (ADL):

- Wood units only
- Bar (interior and exterior): single glazed 7/8" (22) wide bars, insulated glass 1 11/16" (43) wide bars, with the exception of Double Hung Tilt Pacs which are 1 7/16" (37), Magnum Tilt Turn/Hopper 1 15/16" (49)
- Available in standard pine and optional mahogany, or vertical grain Douglas fir
- Finish to match interior and exterior and species of door
- Pattern: Rectangular, custom lite layouts available, contact your Marvin representative
- ADL glazing options not available with Argon. Sealed air units are standard.

Accessories:

- Installation brackets: 6 3/8" (162), 9 3/8" (238), or 15 3/8" (390)
- Masonry brackets: 6" (152), or 10" (254)
- Exterior wood casings: Brick Mould Casing (BMC), Flat Casing, Special Casing 3 (SPC3), Special Casing 7 (SPC7), Special Casing 21 (SPC21), Special Casing 18 (SPC18), Special Casing 26 (SPC26)
- Aluminum extrusions: Brick Mould Casing (BMC), Flat Casing, Columbus Casing, Grayson Casing, Stratton Casing, Thornton Casing, Potter Casing
- Aluminum Extrusions: Mullion Cover, Frame Expander, Mullion Expander, Subsills and Subsill End Caps
- Jamb Jack Installation kit
- IZ3 Installation kit

IZ3/IZ4: Code Requirements and Glazing**Regional Product Design Pressure Requirements****International Residential Code/International Building Code:**

This set of building codes has fast been replacing the regional codes we have had available in the past. These codes represent the results of the many code governing agencies getting together to come up with a singular code language that meets all geographical locations within the building industry.

The International Residential Code is written for typical residential construction and the International Building Code is more for Commercial use. Within these codes is language that places a building site geographically into different zones based on wind-speed and proximity to the ocean as listed here:

Impact Glazing Zone 1 (IZ1):

130mph and up to but not including 140 mph and within 1-mile of the mean high tide line and Hawaii. Design pressures in this zone will exceed 40psf for negative loads. The I-codes also specifically require wind-borne debris construction in this zone. Windows and doors must be designed to withstand an impact of a 4' long 2x4 stud shot out of a cannon at 40' per second (27mph) to simulate flying debris followed by a total of 9,000 high wind cycles to simulate a hurricane.

Impact Glazing Zone 2 (IZ2):

140mph and up to but not including 150mph and more than 1-mile from the mean high tide line. Pressures in this zone approach 50psf for negative loads. Wind-borne debris requirements are identical to Zone 1.

Impact Glazing Zone 3 (IZ3):

For winds 150mph and up to 160mph, or 140mph and up to 160mph and within 1-mile of the mean high tide line. Design pressures in this zone can approach 65psf for negative loads. The I-codes specifically require wind-borne debris construction in this zone. Windows and Doors must be designed to withstand an impact of an 8' long 2x4 stud shot from a cannon at 50' per second (34mph) to simulate flying debris followed by a 9,000 high wind cycles that simulate a hurricane.

The make-up of IZ3 glass:

- Exterior piece of glass is annealed or tempered.
- Interior piece of glass is laminated glass which is composed of a layer of PVB or SGP sandwiched between two pieces of annealed glass.

Impact Glazing Zone 4 (IZ4):

This is considered a high velocity wind zone and encompasses all areas with wind speeds in excess of 160mph. Design pressures in this zone often exceed 65psf and can approach 100psf. Wind-borne debris requirements include everything from Zone 3 as well as as possible multiple hits per test unit and mullions.

NOTE: Refer to wind speed map and ASTM E1996-14, subsection 6.2.2 for more information.

Egress Code: International Building Code - 2012, 2015, 2018

International Building Code - 2012, 2015, and 2018

Section 1029 in 2012 code, Section 1030 in 2015 and 2018 code - Emergency Escape and Rescue Openings

Minimum Size: Emergency escape and rescue openings shall have a minimum net clear opening of 5.7 square feet (.053 m²). Exception: The minimum net clear opening for grade-floor emergency escape and rescue openings shall be 5.0 square feet (0.46m²).

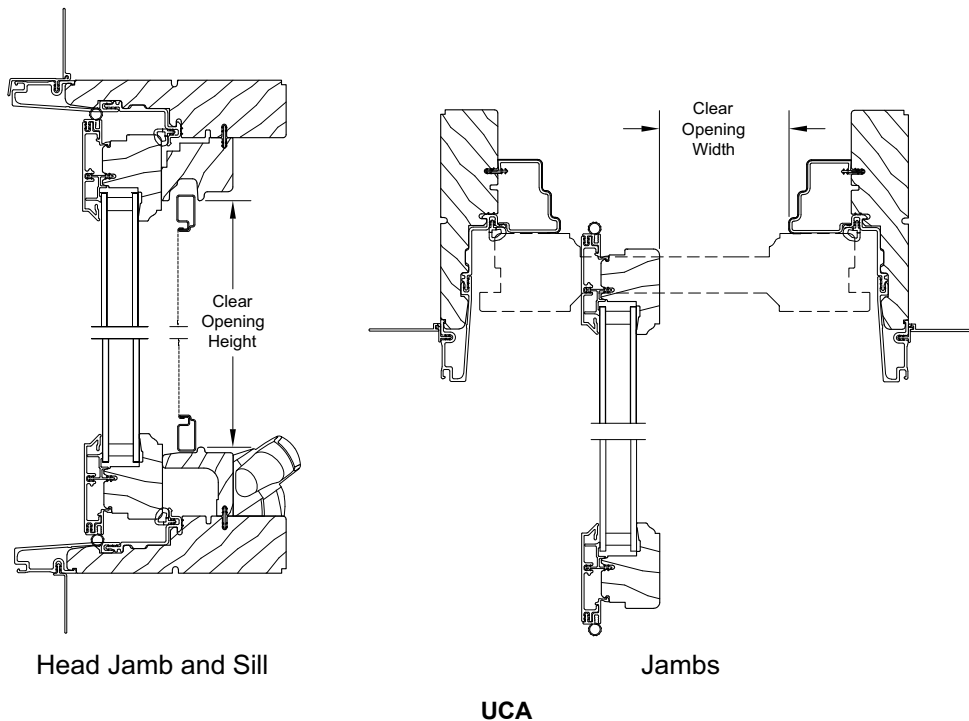
Minimum Dimensions: The minimum net clear opening height dimension shall be 24 inches (610). The minimum net clear opening width dimension shall be 20 inches (508). The net clear opening dimensions shall be the result of normal operation of the opening.

Maximum Height from Floor: Emergency escape and rescue openings shall have the bottom of the clear opening not greater than 44 inches (118) measured from the floor.

Operational Constraints: Emergency escape and rescue openings shall be operational from the inside of the room without the use of keys or tools. The 2018 code added the following sentence - window-opening control devices complying with ASTM F2090 shall be permitted for use on windows serving as a required emergency escape and rescue opening.

Code restrictions may vary depending on your local building code.

NOTE: Net Clear opening drawing is located in individual chapter with measurement conversions. UCA sample below.



Chain of Custody Certification

Marvin® offers customers the option to order chain-of-custody (COC) certified products through the Forest Stewardship Council (FSC®) Percentage System. The output claim for eligible products will be FSC® Mix XX%. The COC process is your assurance that the wood is legally and ethically harvested since it is tracked from the forest, through the manufacturing processes, and eventually to the end consumer.

When specifying the FSC® Percentage System, Marvin will utilize only FSC® certified COC and FSC® certified Controlled Wood (CW) materials. Two wood species are available from Marvin certified through the COC system: Douglas Fir and Honduran Mahogany. Invoices for the FSC® Mix Certified products will include the claim statement “FSC® Mix XX%” along with the Marvin FSC® certificate number.

FSC® is an established, independent organization recognized as a leader in promotion of responsible forest management practices. Marvin has a genuine appreciation for the critical role forests play in the quality of life within the global ecosystems. Properly managed forests supply a continual source of wood. Marvin continues to support sustainable forestry management and is committed to conserving natural resources, including efforts to preserve old growth and ancient rain forests.

For more information on FSC®, go to www.fscus.org.

AAMA Paint & Coating Specifications

The American Architectural Manufacturer’s Association (AAMA) is a trade association representing firms engaged in the manufacture and sale of architectural building components and related products. Voluntary standard have been created to test a product’s durability, strength, resistance to environmental degradation and longevity. AAMA has a standard set of stringent performance tests designed to evaluate high-performance coatings on fenestration products. the quality of these finishes is affected by the pigment formula as well as the resin used to bind pigment to the substrate surface. Marvin Windows and Door uses an exceedingly strong fluropolymer resin material with hi-quality complex ceramic pigment mix to create a finish that meets AAMA 2605 voluntary performance requirements and test procedures for pigmented organic coatings on extruded aluminum and panels. In addition, a five-step pre-treatment process ensures thorough, firm bonding between the resin and the extruded aluminum substrate. The chart below illustrated the difference between the AAMA ratings, from aesthetic changes such as chalking and color retention to testing designed to replicate harsh coastal conditions.

AAMA Paint Specifications for Clad Units		
South Florida Weathering:		
Specification Details	AAMA 2603	AAMA 2605
Color Retention	1 yr "Slight" fade	10 yrs Fade = 5 Delta E
Chalk Resistance	1 yr "Slight" chalk	10 yrs chalk = 8
Glass Retention	no specification	10 yrs 50% retention
Erosion Resistance	no specification	10 yrs 10% loss
Dry Film Thickness	0.8 mils minimum	1.2 mils minimum
Pretreatment System	Chrome/chrome free	Chrome = 40 mg/sq ft
Chemical Resistance		
Specification Details	AAMA 2603	AAMA 2605
Muriatic Acid	15 minutes/no attack	15 minutes/no attack
Mortar	24 hours/no attack	24 hours/no attack
Nitric Acid	max 5D E units change	max 5D E units change
Detergent	72 hours/no attack	72 hours/no attack
Window Cleaner	no specification	24 hours/no attack
Accelerated Testing		
Specification Details	AAMA 2603	AAMA 2605
Salt Spray	1,500 hours	4,000 hours
Humidity	1,500 hours	4,000 hours

WDMA Hallmark Certification Program

www.wdma.com

Marvin Windows and Doors is a member of the Window and Door Manufacturers Association (WDMA) and uses their Hallmark Certification program to certify products. Please refer to product chapters for specific Hallmark Certification information.

Any manufacturer who complies with standards set by the Window and Door Manufacturer's Association's standards is eligible to participate in the Hallmark Certification program. In order to participate, products must be tested and pass one of the performance rating levels as defined in the applicable standard. In order for WDMA to ensure those manufacturers' products remain in continuing compliance; unannounced periodic in-plant inspections are conducted. Following this process authorizes the manufacturer to label the products as certified and gives the consumer and specifiers assurance that purchased products comply with industry standards.

Standard Requirements	
Aluminum and Wood Windows and Doors	AAMA/WDMA/CSA 101/I.S.2/A440, NAFS-11, NAFS-17
Water - Repellent Preservative	WDMA I.S.4
Non-Pressure Treatment for Millwork	

Industry and Federal Performance Standards

Marvin products have been tested and passed the following applicable test procedures referenced by WDMA, AAMA, IGCC, IGMA, SMA and CMBSO.

AAMA 2603	Voluntary Specification, Performance Requirements and Test Procedures for Pigmented Organic Coatings on Aluminum Extrusions and Panels
AAMA 2605	Voluntary Specification, Performance Requirements and Test Procedures for Superior Performing Organic Coatings on Aluminum Extrusions and Panels
WDMA I.S.2	Industry Standard for Water-Repellent Preservative Treatment of Millwork
WDMA TM-14-09	Test Methods for Factory Applied and Pigmented Interior Pre-finished Wood and Wood Cellulose Composites Used for Millwork
ANSI A 201-2	Specification for Aluminum Sliding Screen Doors; SMA 2005
ASTM C-1036	Standard Specification for Flat Glass
ASTM D-3310	Standard Specification for Adhesives Used in Non-Structural Glued Lumber Products
ASTM E-90	Laboratory Measurement of Airborne Sound Transmission of Building Partitions
ASTM E-283	Standard Test Method for Rate of Air Leakage Through Exterior Windows, Curtain Walls and Doors
ASTM E-330	Standard Test Method for Structural Performance of Exterior Windows, Curtain Walls and Doors by Uniform Static Air Pressure Differences
ASTM E-331	Standard Test Method for Water Penetration of Exterior Windows, Curtain Walls and Doors by Uniform Static Air Pressure Differences
ASTM E-413	Determination of Sound Transmission Class
ASTM E-547	Standard Test Method for Water Penetration of Exterior Windows, Curtain Walls and Doors by Cyclic Static Air Pressure Differences
ASTM E-1300	Standard Practice for Determining the Load Resistance of Glass in Buildings
ASTM E-1886	Standard Test Method for Performance of Exterior Windows, Curtains Walls, Doors, and Impact Protective Systems. Impacted by Missile(s) and Exposed to Cyclic Pressure Differentials
ASTM E-1996	Standard Specification for Performance of Exterior Windows, Curtain Walls, Doors, and Impact. Protective Systems Impacted by Windborne Debris in Hurricanes
ASTM E-2068	Standard Test Method for Determination of Operating Force of Sliding Windows and Doors
ASTM E-2190	Standard Specification for Insulating Glass Unit Performance and Evaluation
ASTM E-1425	Standard Practice for Determining the Acoustical Performance of Windows, Doors, Skylight, and Glazed Wall Systems
ASTM F-588	Standard Test Method for Resistance of Window Assemblies to Forced Entry
ASTM F-842	Standard Entry Method for Measurements of Forced Entry Resistance of Horizontal Sliding Door Assemblies
ASTM F-2090	Standard Specification for Window Fall Prevention Devices with Emergency Escape (Egress) Release Mechanisms
SMA 1004	Specification for Aluminum Tubular Frame Screen for Windows”
AAMA/WDMA/CSA 101/I.S. 2/A440-11	NAFS - North American Fenestration Standard/Specification for windows, doors, and skylights
ANSI/NFRC 100-2017	Procedure for Determining Fenestration Product Thermal Attributes

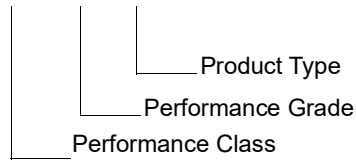
Product Rating Codes / Performance Classes

<u>Product Type</u>		<u>Performance Class and Grade</u>
AP = Awning, Hopper, Projected Window	MA = Mullion Assembly	R = Residential
AP = Awning, Hopper, Projected Window	POW = Parallel Opening Window	LC = Light Commercial
C = Casement Windows	SD = Sliding Door	CW=Commercial
DAW = Dual Action Windows	SGD = Sliding Glass Doors	AW =Architectural
DASHD = Dual Action Side-Hinges Door	SHD = Side-Hinged Door	
FD = Fixed Door	SHW = Side-Hinges (inswinging) window	
FW = Fixed Windows	SLT = Side Lite	
H = Hung Windows	SP = Specialty Product	
HGD = Hinged Glass Doors	SSP = Secondary Storm Product	
HP = Horizontally Pivoted Window	TH = Top-Hinged Window	
HS = Horizontal Sliding Windows	VP = Vertical Pivoted Window	
LW DASHD = Limited Water Dual Action Side Hinged Door	VS = Vertical Sliding Window	

Product Rating Code for '11

Example

LC - PG25 - H



Product Rating Codes / Performance Classes/Design Pressure Ratings

Performance Classes (‘08, ‘11, ‘17 Standards)	(psf) Min. DP	(psf) Struct. Press.	(psf) Water Press.	(cfm/ft ²) Max. Air. Inf.
R = Residential	15	22.56	2.92	0.3 (1.57 psf)
LC = Light Commercial	25	37.59	3.76	0.3 (1.57 psf)
CW = Commercial	30	45.11	4.59	0.3 (1.57 psf)
AW = Architectural	40	60.15	7.95	0.1 or 0.3 (6.27 psf)
Metric	(Pa)	(Pa)	(Pa)	(L/s/m ²)
R = Residential	720	1080	140	1.5 (75 Pa)
LC = Light Commercial	1200	1800	180	1.5 (75 Pa)
CW = Commercial	1440	2160	220	1.5 (75 Pa)
AW = Architectural	1920	2880	380	0.5 or 1.5 (300 Pa)

NOTE: AAMA/WDMA chose to establish 2.86 psf as the minimum air pressure used during water testing although it is greater than 15% of the design pressure at DP15.

Performance Grade						
Performance Grade		PG15	PG20	PG25	PG30	PG35
Design Pressure (DP)	(psf)	15.04	20.05	25.06	30.08	35.09
Structural Test Pressure (STP)	(psf)	22.56	30.08	37.59	45.11	52.63
Water penetration resistance test pressure	(psf)	2.92	3.13	3.76	4.59	5.43
Performance Grade		PG40	PG45	PG50	PG55	PG60
Design Pressure (DP)	(psf)	40.10	45.11	50.13	55.14	60.15
Structural Test Pressure (STP)	(psf)	60.15	67.67	75.19	82.71	90.23
Water penetration resistance test pressure	(psf)	6.06	6.89	7.52	8.35	9.19
Metric Performance Grade		PG15	PG20	PG25	PG30	PG35
Design Pressure (DP)	(Pa)	720	960	1,200	1,440	1,680
Structural Test Pressure (STP)	(Pa)	1,080	1,440	1,800	2,160	2,520
Water penetration resistance test pressure	(Pa)	140	150	180	220	260
Metric Performance Grade		PG40	PG45	PG50	PG55	PG60
Design Pressure (DP)	(Pa)	1,920	2,160	2,400	2,640	2,880
Structural Test Pressure (STP)	(Pa)	2,880	3,240	3,600	3,960	4,320
Water penetration resistance test pressure	(Pa)	290	330	360	400	440

STC and OITC Class Values

Marvin Sound Transmission Class and Outdoor - Indoor Transmission Class Values							
Product Type	Exterior Glazing	Airspace	Interior Glazing	STC	OITC	Additional Information	STC Report #
Ultimate Double Hung G2							
UDH G2 (47 3/16 x 59 1/8)	1/8" (3.1) Annealed	5/8" (16.0)	1/8" (3.1) Annealed	27	23		ESP018375P-2
UDH G2 (47 3/16 x 59 1/8)	1/8" (3.1) Annealed	1/4" (6.5)	1/8" (3.1) Annealed	28	24	Tri-pane: two 1/4" air spaces with 1/8" center pane	ESP016170P-2
UDH G2 (47 3/16 x 59 1/8)	1/8" (3.1) Annealed	19/32" (14.5)	3/16" (4.7) Annealed	30	26		ESP020753P-2
UDH G2 (47 3/16 x 59 1/8)	1/4" (5.7) Annealed	3/8" (9.8)	1/4" (6.0) Lami	30	27		ESP016170P-4
UDH G2 (47 3/16 x 59 1/8)	1/4" (6.0) Lami	3/8" (9.8)	1/4" (6.0) Lami	31	27		ESP016170P-5
UDH G2 (47 3/16 x 59 1/8)	1/8" (3.1) Annealed	7/16" (11.5)	5/16" (7.8) Lami	31	26	CE	ESP020753P-1
UDH G2 (47 3/16 x 59 1/8)	9/32" (7.0) Lami	5/16" (8.0)	9/32" (7.0) Lami	31	27	CE	ESP016170P-7
UDH G2 (47 3/16 x 59 1/8)	1/8" (3.1) Annealed	7/16" (11.5)	11/32" (8.6) Lami	31	27	IZ3	ESP018375P-5
UDH G2 (47 3/16 x 59 1/8)	3/16" (4.7) Annealed	7/16" (11.5)	1/4" (6.0) Lami	31	28		ESP018375P-3
UDH G2(47 3/16 x 59 1/8)	1/4" (5.9) Annealed	5/16" (8.0)	5/16" (7.8) Lami	31	29	CE	ESP016170P-6
UDH G2 (47 3/16 x 59 1/8)	3/16" (4.7) Annealed	5/16" (8.0)	11/32" (8.6) Lami	32	29	IZ3	ESP018375P-7
UDH G2 (47 3/16 x 59 1/8)	1/8" (3.1) Annealed	5/8" (16.0)	1/8" (3.1) Annealed	35	28	1/8" Clad Storm Combination	ESP016170P-14
UDH G2 (47 3/16 x 59 1/8)	1/8" (3.1) Annealed	1/4" (6.5)	1/8" (3.1) Annealed	36	30	Tri-pane: two 1/4" air spaces w/ 1/8" center pane, 1/8" Clad Storm Comb	ESP016170P-15
UDH G2 (47 3/16 x 59 1/8)	1/4" (5.7) Annealed	3/8" (9.8)	1/4" (6.0) Lami	39	32	1/8" Clad Storm Combination	ESP016170P-19
UDH G2(47 3/16 x 59 1/8)	1/4" (6.0) Lami	3/8" (9.8)	1/4" (6.0) Lami	40	33	1/8" Clad Storm Combination	ESP016170P-17
UDH G2 (47 3/16 x 59 1/8)	3/16" (4.7) Annealed	7/16" (11.5)	1/4" (6.0) Lami	40	33	1/8" Clad Storm Combination	ESP016170P-18
UDH G2 (47 3/16 x 59 1/8)	9/32" (7.0) Lami	5/16" (8.0)	9/32" (7.0) Lami	40	33	1/8" Clad Storm Combination CE	ESP016170P-12
UDH G2 (47 3/16 x 59 1/8)	1/4" (5.9) Annealed	5/16" (8.0)	5/16" (7.8) Lami	41	35	1/8" Clad Storm Combination CE	ESP016170P-16
UDH P G2 (47 3/16 x 59 1/8)	1/8" (3.1) Annealed	5/8" (16.0)	1/8" (3.1) Annealed	29	23		ESP016170P-21
UDH P G2 (47 3/16 x 59 1/8)	1/8" (3.1) Annealed	1/4" (6.5)	1/8" (3.1) Annealed	30	25	Tri-pane: two 1/4" air spaces with 1/8" center pane	ESP016170P-24
UDH P G2 (47 3/16 x 59 1/8)	1/4" (5.7) Annealed	3/8" (9.8)	1/4" (6.0) Lami	34	29		ESP016170P-26
UDH P G2 (47 3/16 x 59 1/8)	1/4" (6.0) Lami	3/8" (9.8)	1/4" (6.0) Lami	35	30		ESP016170P-25
UDH P G2 (47 3/16 x 59 1/8)	3/16" (4.7) Annealed	7/16" (11.5)	1/4" (6.0) Lami	35	29		ESP016170P-23
UDH P G2 (47 3/16 x 59 1/8)	1/4" (5.9) Annealed	5/16" (8.0)	5/16" (7.8) Lami	35	31	CE	ESP016170P-22
UDH P G2 (47 3/16 x 59 1/8)	9/32" (7.0) Lami	5/16" (8.0)	9/32" (7.0) Lami	35	30	CE	ESP016170P-27
UDH P G2 (47 3/16 x 59 1/8)	1/8" (3.1) Annealed	1/4" (6.5)	9/16" (13.6) Lami	35	31		ESP016170P-29
Ultimate Wood Double Hung							
UWDH 3026	1/8" (3.1) Annealed	7/16" (11.5)	1/8" (3.1) Annealed	35	26	3/32" (2) Wood Storm Comb	66263-4
UWDH 3026	3/16" (4.7) Annealed	3/8" (9.8)	1/8" (3.1) Annealed	36	27	3/32" (2) Wood Storm Comb	66263-5
UWDH 3026	5/32" (3.9) Annealed	3/8" (9.8)	1/4" (6) Lami	37	28	3/32" (2) Wood Storm Comb	66263-6
UWDHP 6878	1/4" (5.7) Annealed	9/16" (14.5)	1/4" (6) Lami	34	27	2" (51) Sash	66263-7
Ultimate Wood Double Hung Magnum (see NOTE below)							
UWDHM FS 48"(1219) X 60"(1524) (7/8)	1/4" (6) LAMI	3/8" (9.8)	1/4" (6) LAMI	33	28		ESP-015798P-3
UWDHM FS 48"(1219) X 60"(1524) (7/8)	1/4" (6) LAMI	5/16" (8)	5/16" (8.6) LAMI	34	29		ESP-015798P-2
UWDHM FS 48"(1219) X 60"(1524) (7/8)	1/8" (3.1) Annealed	1/4" (6.5)	1/8" (3.1) Annealed	28	24	Tri-pane: two 1/4" air spaces with 1/8" center pane	ESP-015798P-1
UWDHM FS 47 7/8 X 88 (11/16)	1/8" (3.1) Annealed	7/16" (11.5)	1/8" (3.1) Annealed	27	22		76430
UWDHM FS 47 7/8 X 88 (11/16)	3/16" (4.7) Annealed	3/8" (9.8)	1/8" (3.1) Annealed	30	25		
UWDHM FS 47 7/8 X 88 (11/16)	1/4" (5.7) Annealed	5/16" (8)	5/32" (3.9) Annealed	31	26		
UWDHM FS 47 7/8 X 88 (11/16)	1/4" (6) LAMI	9/32" (7)	3/16" (4.7) Annealed	31	26		
Ultimate Wood Double Hung Magnum (with 7/8" IG)							
UWDHM FS 48" (1219) X 60"(1524)	1/4" (6) LAMI	3/8" (9.8)	1/4" (6) LAMI	33	27		ESP-015798P-6
UWDHM FS 48" (1219) X 60"(1524)	1/4" (6) LAMI	5/16" (8)	5/16" (8.6) LAMI	34	29		ESP-015798P-5
UWDHM FS 48" (1219) X 60"(1524)	1/8" (3.1) Annealed	1/4" (6.5)	1/8" (3.1) Annealed	28	24	Tri-pane: two 1/4" air spaces with 1/8" center pane	ESP-015798P-4

NOTE: The test reports in the UWDHM section are for Clad Ultimate Double Hung Magnum (UDHM) product, a product that is no longer available. However, in testing the UDHM product, it qualifies the UWDHM product as well.

STC and OITC Class Values

Marvin Sound Transmission Class and Outdoor - Indoor Transmission Class Values							
Product Type	Exterior Glazing	Airspace	Interior Glazing	STC	OITC	Additional Information	STC Report #
Ultimate Casement							
Values for wood and clad product UCA, UCART, UPCA, UCAP, UCARTP, UPCAP							
UCA 2460 3/4" (19)	1/8" (3.1) Annealed	1/2" (13)	1/8" (3.1) Annealed	29	23		TCT005872P-1
UCA 2460 3/4" (19)	1/4" (5.7) Annealed	5/16" (8)	1/4" (6) LAMI	34	29		ESP016574P-2
UCA 2460 3/4" (19)	1/4" (6) LAMI	9/32" (7)	1/4" (6) LAMI	35	30		ESP016574P-3
UCA 2460 3/4" (19)	1/8" (3.1) Annealed	5/16" (8)	11/32" (8.6) PVB	35	31	IZ3	ESP017287P-4
UCA 2460 3/4" (19)	3/16" (4.7) Annealed	5/16" (8)	1/4" (6) LAMI	35	30		ESP016574P-4
UCA 2460 3/4" (19)	3/16" (4.7) Annealed	1/4" (6.5)	11/32" (8.6) PVB	37	31	IZ3	ESP017287P-1
UCA 2460 3/4" (19)	1/8" (3.1) Annealed	1/2" (13)	1/8" (3.1) Annealed	46	34	interior sash 1/8" glass, 4 1/4" airspace	TCT005872P-1
UCA 2460 1" (25)	1/8" (3.1) Annealed	5/16" (8)	1/8" (3.1) Annealed	30	25	Tri-pane: two 5/16 air spaces, with 1/8" center	ESP016574P-5
UCA 2460 1" (25)	1/4" (5.7) Annealed	1/2" (13)	1/4" (6) LAMI	34	28		ESP016574P-10
UCA 2460 1" (25)	3/16" (4.7) Annealed	9/16" (14.5)	1/4" (5.7) Annealed	34	27		TCT005872P-1
UCA 2460 1" (25)	1/4" (6) LAMI	1/2" (13)	1/4" (6) LAMI	35	28		ESP016574P-11
UCA 2460 1" (25)	9/32" (7) Lami	7/16" (11.5)	9/32" (7) Lami	35	29	CE	ESP016574P-13
UCA 2460 1" (25)	1/4" (5.9) Annealed	7/16" (11.5)	5/16" (7.8) Lami	37	32	CE	ESP017287P-3
UCA 2460 1" (25)	3/16" (4.7) Annealed	9/32" (7)	17/32" (13.6) Lami	37	34		ESP016574P-9
UCA 2460 1" (25)	3/16" (4.7) Annealed	9/16" (14.5)	1/4" (6) LAMI	37	30		ESP016574P-12
UCA 2460 1" (25)	3/16" (4.7) Annealed	7/16" (11.5)	11/32" (8.6) PVB	37	31	IZ3	ESP017287P-2
UCA 2460 1" (25)	3/16" (4.7) Annealed	3/8" (9.8)	13/32" (10.1) PVB	38	33		ESP017287P-6
UCA 2460 1" (25)	3/16" (4.7) Annealed	9/16" (14.5)	1/4" (5.7) Annealed	47	36	interior sash 1/8" glass, 4 1/4" airspace	TCT005872P-1
UCAP 4860 1" (25)	3/16" (4.7) Annealed	9/16" (14.5)	1/4" (6) LAMI	36	30		ESP016574P-15
UCAP 4860 1" (25)	1/4" (5.7) Annealed	1/2" (13.0)	1/4" (6) LAMI	34	29		ESP016574P-16
UCAP 4860 1" (25)	1/4" (6) LAMI	1/2" (13.0)	1/4" (6) LAMI	35	29		ESP016574P-17
UCAP 4860 1" (25)	3/16" (4.7) Annealed	9/32" (7)	17/32" (13.6) Lami	36	33		ESP016574P-18
UCAP 4860 1" (25)	1/8" (3.1) Annealed	5/16" (8)	1/8" (3.1) Annealed	29	24	Tri-pane: two 5/16" air spaces, with 1/8" center	ESP016574P-19
UCAP 4860 1" (25)	9/32" (7) Lami	7/16" (11.5)	9/32" (7) Lami	36	32	CE	ESP016574P-23
UCAP 4860 1" (25)	1/4" (5.9) Annealed	7/16" (11.5)	5/16" (7.8) Lami	36	30	CE	ESP016574P-22
UCAP 4860 1" (25)	3/16" (4.7) Annealed	5/8" (16)	3/16" (4.7) Annealed	31	25		
UCAP 4860 1" (25)	3/16" (4.7) Annealed	9/16" (14)	1/4" (5.7) Annealed	34	28		TCT005872P-2
UGL 5040	1/8" (3.1) Annealed	7/16" (11.5)	1/8" (3.1) Annealed	27	22		
UGL 5040	1/8" (3.1) Annealed	3/8" (10)	3/16" (4.7) Annealed	32	26		TCT006299P-CUGL
UGL 5040	1/8" (3.1) Annealed	7/16" (11.5)	1/8" (3.1) Annealed	33	25	1/8" Combination to the exterior	
UGL 5040	1/8" (3.1) Annealed	3/8" (10)	3/16" (4.7) Annealed	37	27	1/8" Combination to the exterior	
UGL 5040	3/16" (4.7) Annealed	9/32" (7.0)	1/4" (6.0) Lami	32	29		ESP020754P-4rev1
UGL 5040	5/32" (3.9)	9/32" (7.0)	9/32" (7.0) Lami	30	27	CE	ESP020754P-5
UGL 5040	3/16" (4.7) Annealed	9/32" (7.0)	1/4" (6.0) Lami	37	31	1/8" Combination to the exterior	ESP020754P-2rev1
UGL 5040	5/32" (3.9)	9/32" (7.0)	9/32" (7.0) Lami	37	30	CE 1/8" Combination to the exterior	ESP020754P-3
UGLP 4050	3/16" (4.7) Annealed	5/16" (8)	3/16" (4.7) Annealed	31	26		TCT006299P-CUGLP
UGLP 4050	1/8" (3.1) Annealed	3/8" (10)	3/16" (4.7) Annealed	31	26		
UGLP 4050	3/16" (4.7) Annealed	9/32" (7)	1/4" (6.0) Lami	34	30		ESP020754P-1
Ultimate Direct Glaze							
UDG Rect FS 47 3/16" x 59 3/32"	5/32" (3.9) Annealed	7/16" (11.5)	5/32" (3.9) Annealed	28	24		ESP014020-2
UDG Rect FS 47 3/16" x 59 3/32"	1/4" (5.7) Annealed	7/16" (11.5)	1/4" (6.0) Lami	33	27		ESP014020-3
UDG Rect FS 47.2 x 59.1	1/8" (3.1) Annealed	7/16" (11.5)	1/8" (3.1) Annealed	27	23		ESP019269P-4
UDG Rect FS 47.2 x 59.1	3/16" (4.7) Annealed	7/16" (11.5)	3/16" (4.7) Annealed	29	26		ESP019269P-9
UDG Rect FS 47.2 x 59.1	1/4" (5.7) Annealed	7/16" (11.5)	1/4" (5.7) Annealed	30	26		ESP019269P-8
UDG Rect FS 47.2 x 59.1	5/32" (3.9)Annealed	7/16" (11.5)	3/16" (4.7) Annealed	32	28		ESP019269P-5
UDG Rect FS 47.2 x 59.1	3/16" (4.7) Annealed	7/16" (11.5)	1/4" (6.0) Lami	34	29		ESP019269P-2
UDG Rect FS 47.2 x 59.1	1/4" (6.0) Lami	7/16" (11.5)	1/4" (6.0) Lami	33	28		ESP019269P-11
UDG Rect FS 47.2 x 59.1	1/8" (3.1) Annealed	5/16" (8.0)	1/8" (3.1) Annealed	27	23	tripane- two 5/16" airspaces with 1/8" center	ESP019269P-7
UDG Rect FS 47.2 x 59.1	1/8" (3.1) Annealed	5/16" (8.0)	1/4" (6.0) Lami	33	27	tripane- two 5/16" airspaces with 1/8" center	ESP019269P-6
UDG Rect FS 47.2 x 59.1	3/16" (4.7) Annealed	3/8" (9.8)	13/32" (10.1) SGP	34	30	IZ3	ESP019269P-3
UDG Rect FS 47.2 x 59.1	9/32" (7.0) Lami	7/16" (11.5)	9/32" (7.0) Lami	36	30	CE	ESP019269P-1
UDG Rect FS 47.2 x 59.1	15/64" (5.9) Annealed	7/16" (11.5)	5/16" (7.8) Lami	36	31	CE	ESP019269P-10
Ultimate Tilt Turn							
UTT FS 48" (1219) x 72" (1829)	1/8" (3) Annealed	5/8" (16)	1/8" (3) Annealed	31	25		66263-24
UTT FS 48" (1219) x 72" (1829)	3/16" (5) Annealed	15/32" (12)	1/4" (6) Lami	36	29		66263-25

STC and OITC Class Values

Marvin Sound Transmission Class and Outdoor - Indoor Transmission Class Values							
Product Type	Exterior Glazing	Airspace	Interior Glazing	STC	OITC	Additional Information	STC Report #
Ultimate Sliding Patio Door							
USPD 6068	1/8" (3.1) Tempered	1/2" (12.7)	1/8" (3.1) Tempered	29	24		ESP023470P-12
USPD 6068	1/8" (3.1) Tempered	7/16" (11.0)	3/16" (4.7) Tempered	31	26		ESP023470P-20
USPD 6068	1/8" (3.1) Tempered	3/8" (9.3)	1/4" (5.7) Tempered	31	27		ESP023470P-14
USPD 6068	5/32" (3.9) Tempered	7/16" (11.0)	5/32" (3.9) Tempered	30	25		ESP023470P-18
USPD 6068	1/4" (5.7) Tempered	5/16" (8.1)	1/4" (5.7) Tempered	31	28		ESP023470P-19
USPD 6068	1/8" (3.1) Tempered	3/8" (9.8)	1/4" (6) Lami	31	27		ESP023470P-15
USPD 6068	3/16" (4.7) Tempered	5/16" (8.0)	1/4" (6) Lami	31	28		ESP023470P-17
USPD 6068	1/4" (5.7) Tempered	5/16" (8.0)	1/4" (6) Lami	31	28		ESP023470P-13
USPD 6068	1/4" (6) Lami	9/32" (7.0)	1/4" (6) Lami	32	29		ESP023470P-16
USPD 6068	1/8" (3.1) Tempered	5/16" (8.0)	5/16" (7.8) Lami	31	28	CE	ESP023470P-22
USPD 6068	5/32" (3.9) Tempered	5/16" (8.0)	5/16" (7.8) Lami	31	28	CE	ESP023470P-21
Ultimate Sliding French Door							
UWSFD 6068	1/4" (6) Lami	3/8" (10)	1/8" (3.1) Tempered	32	28		66263-9
USFD 6068	1/8" (3.1) Tempered	1/2" (12.7)	1/8" (3.1) Tempered	30	26		ESP023470P-1
USFD 6068	1/8" (3.1) Tempered	7/16" (11.0)	3/16" (4.7) Tempered	31	27		ESP023470P-10
USFD 6068	1/8" (3.1) Tempered	3/8" (9.3)	1/4" (5.7) Tempered	31	28		ESP023470P-5
USFD 6068	5/32" (3.9) Tempered	7/16" (11.0)	5/32" (3.9) Tempered	30	27		ESP023470P-7
USFD 6068	1/4" (5.7) Tempered	5/16" (8.1)	1/4" (5.7) Tempered	31	28		ESP023470P-11
USFD 6068	1/8" (3.1) Tempered	3/8" (9.8)	1/4" (6) Lami	32	28		ESP023470P-3
USFD 6068	3/16" (4.7) Tempered	5/16" (8.0)	1/4" (6) Lami	32	29		ESP023470P-8
USFD 6068	1/4" (5.7) Tempered	5/16" (8.0)	1/4" (6) Lami	32	29		ESP023470P-9
USFD 6068	1/4" (6) Lami	9/32" (7.0)	1/4" (6) Lami	31	29		ESP023470P-2
USFD 6068	1/8" (3.1) Tempered	5/16" (8.0)	5/16" (7.8) Lami	32	29	CE	ESP023470P-4
USFD 6068	5/32" (3.9) Tempered	5/16" (8.0)	5/16" (7.8) Lami	32	29	CE	ESP023470P-6
Ultimate Sliding French Door IZ3							
USFD 6068	5/32" (3.9) Tempered	5/16" (8.0)	9/32" (6.9) SGP LAMI	32	29	IZ	ESP023470P-23
USFD 6068	3/16" (4.7) Tempered	9/32" (7.0)	9/32" (6.9) SGP LAMI	32	29	IZ	ESP023470P-24
Ultimate Inswing French Door IZ3							
UIFD 6068 IZ3	1/8" (3.1) Tempered	9/32" (7)	11/32" (8.6) SGP	33	30		ESP018204P-1
UIFD 6068 IZ3	3/16" (4.7) Tempered	1/4" (6.5)	11/32" (8.6) SGP	34	31		ESP018204P-2
Ultimate Inswing French Door							
UIFD 6068	1/8" (3.1) Tempered	1/2" (13)	1/8" (3.1) Tempered	31	26		ESP018204P-6
UIFD 6068	1/8" (3.1) Tempered	7/16" (11.5)	5/32" (3.9) Tempered	33	28		ESP018204P-8
UIFD 6068	1/8" (3.1) Tempered	3/8" (9.8)	1/4" (5.7) Tempered	34	30		ESP018204P-10
UIFD 6068	1/4" (5.7) Tempered	5/16" (8)	1/4" (5.7) Tempered	34	29		ESP018204P-12
UIFD 6068	1/8" (3.1) Tempered	3/8" (9.8)	1/4" (6) Lami	35	30		ESP018204P-14
UIFD 6068	3/16" (4.7) Tempered	5/16" (8)	1/4" (6) Lami	35	30		ESP018204P-18
UIFD 6068	1/4" (5.7) Tempered	5/16" (8)	1/4" (6) Lami	35	30		ESP018204P-16
UIFD 6068	1/4" (6) Lami	9/32" (7)	1/4" (6) Lami	35	30		ESP018634P-1
UIFD 6068 3/4 lite stmpd rsd pnls	1/8" (3.1) Tempered	1/2" (13)	1/8" (3.1) Tempered	32	26	3/4 lite stamped raised panels	ESP018204P-22
UIFD 6068 3/4 lite stmpd rsd pnls	3/16" (4.7) Tempered	5/16" (8)	1/4" (6) Lami	34	30	3/4 lite stamped raised panels	ESP018204P-24
UIFD 6068	1/8" (3.1) Tempered	1/2" (13)	1/8" (3.1) Tempered	40	30	1/8" storm combination on exterior	ESP018204P-7
UIFD 6068	1/8" (3.1) Tempered	7/16" (11.5)	5/32" (3.9) Tempered	42	32	1/8" storm combination on exterior	ESP018204P-9
UIFD 6068	1/8" (3.1) Tempered	3/8" (9.8)	1/4" (5.7) Tempered	43	33	1/8" storm combination on exterior	ESP018204P-11
UIFD 6068	1/4" (5.7) Tempered	5/16" (8)	1/4" (5.7) Tempered	42	34	1/8" storm combination on exterior	ESP018204P-13
UIFD 6068	1/8" (3.1) Tempered	3/8" (9.8)	1/4" (6) Lami	44	33	1/8" storm combination on exterior	ESP018204P-15
UIFD 6068	3/16" (4.7) Tempered	5/16" (8)	1/4" (6) Lami	43	34	1/8" storm combination on exterior	ESP018204P-19
UIFD 6068	1/4" (5.7) Tempered	5/16" (8)	1/4" (6) Lami	43	35	1/8" storm combination on exterior	ESP018204P-17
UIFD 6068	1/4" (6) Lami	9/32" (7)	1/4" (6) Lami	44	33	1/8" storm combination on exterior	ESP018634P-2
UIFD 6068 3/4 lite stmpd rsd pnls	1/8" (3.1) Tempered	1/2" (13)	1/8" (3.1) Tempered	41	31	1/8" storm combination on exterior	ESP018204P-23
UIFD 6068 3/4 lite stmpd rsd pnls	3/16" (4.7) Tempered	5/16" (8)	1/4" (6) Lami	43	34	1/8" storm combination on exterior	ESP018204P-25

STC and OITC Class Values

Marvin Sound Transmission Class and Outdoor - Indoor Transmission Class Values							
Product Type	Exterior Glazing	Airspace	Interior Glazing	STC	OITC	Additional Information	STC Report #
Ultimate Outswing French Door							
UOFD 6068	1/8" (3.1) Tempered	1/2" (13)	1/8" (3.1) Tempered	31	26		ESP018204P-26
UOFD 6068	1/8" (3.1) Tempered	7/16" (11.5)	5/32" (3.9) Tempered	33	28		ESP018204P-27
UOFD 6068	1/8" (3.1) Tempered	3/8" (9.8)	1/4" (5.7) Tempered	35	30		ESP018204P-28
UOFD 6068	1/4" (5.7) Tempered	5/16" (8)	1/4" (5.7) Tempered	34	29		ESP018204P-29
UOFD 6068	1/8" (3.1) Tempered	3/8" (9.8)	1/4" (6) Lami	36	30		ESP018204P-30
UOFD 6068	3/16" (4.7) Tempered	5/16" (8)	1/4" (6) Lami	36	30		ESP018204P-32
UOFD 6068	1/4" (5.7) Tempered	5/16" (8)	1/4" (6) Lami	35	30		ESP018204P-33
UOFD 6068	1/4" (6) Lami	9/32" (7)	1/4" (6) Lami	36	31		ESP018204P-31
Ultimate Outswing French Door IZ3							
UOFD 6068 IZ3	1/8" (3.1) Tempered	9/32" (7)	11/32" (8.6) SGP	33	29	IZ3	ESP018204P-3
UOFD 6068 IZ3	3/16" (4.7) Tempered	1/4" (6.5)	11/32" (8.6) SGP	34	31	IZ3	ESP018204P-4
Ultimate MultiSlide Door / Stacked							
Multi Panel Sliding Door CN6070 OX	3/16" (4.7) Tempered	9/16" (14.5)	3/16" (4.7) Tempered	30	27		ESP021984P-1
Multi Panel Sliding Door CN6070 OX	3/16" (4.7) Tempered	1/2" (13.0)	1/4" (5.7) Tempered	32	29		ESP021984P-3
Multi Panel Sliding Door CN6070 OX	1/4" (5.7) Tempered	7/16" (11.5)	1/4" (5.7) Tempered	31	28		ESP021984P-4
Multi Panel Sliding Door CN6070 OX	3/16" (4.7) Tempered	1/2" (13.0)	1/4" (6.0) Lami	33	30		ESP021984P-5
Multi Panel Sliding Door CN6070 OX	1/4" (6.0) Lami	9/32" (7)	1/4" (6.0) Lami	33	30		ESP021984P-2
Multi Panel Sliding Door CN6070 OX	3/16" (4.7) Tempered	1/4" (11.5)	11/32" (8.6) SGP	31	29	IZ3	ESP021984P-7
Multi Panel Sliding Door CN6070 OX	1/4" (5.7) Tempered	1/2" (13.0)	15/32" (11.7) SGP	32	30	IZ3	ESP021984P-6
Ultimate Double Hung Hopper							
UDHHOP (1") FS 40 X 59.1"	3/16" (4.7) Annealed	5/8" (16)	3/16" (4.7) Annealed	33	28		ESP017948P-1
UDHHOP (1") FS 40 X 59.1"	1/8" (3.1) Annealed	5/16" (8)	1/8" (3.1) Annealed	32	28	Tri-pane: two 5/16" air space with 1/8" center	ESP017948P-3
UDHHOP (1") FS 40 X 59.1"	3/16" (4.7) Annealed	9/16" (14.5)	1/4" (6) LAMI	36	32		ESP017948P-7
UDHHOP (1") FS 40 X 59.1"	1/4" (5.7) Annealed	1/2" (13)	1/4" (6) LAMI	36	32		ESP017948P-5
UDHHOP (1") FS 40 X 59.1"	1/4" (6) LAMI	1/2" (13)	1/4" (6) LAMI	37	32		ESP017948P-17

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.

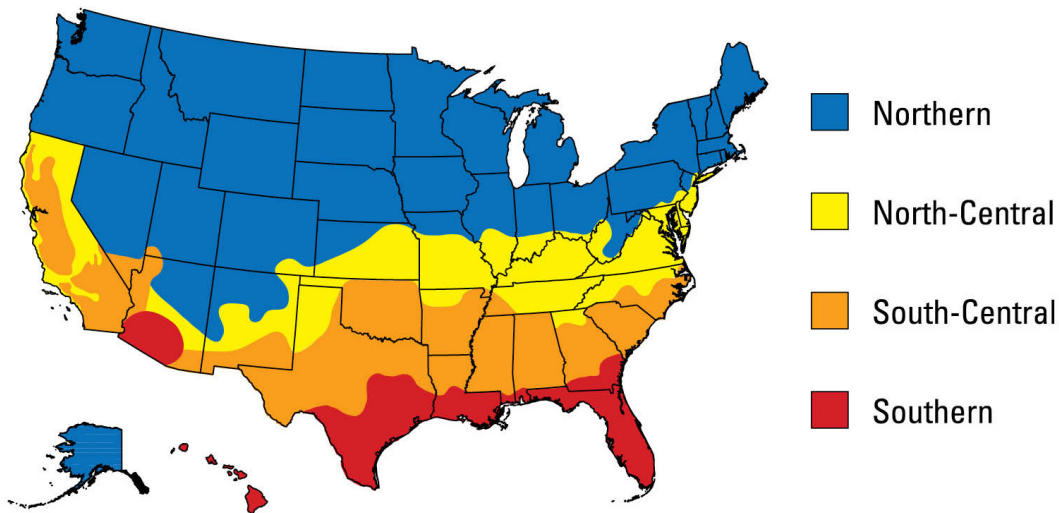
Replacing old windows with ENERGY STAR® qualified windows lowers household energy bills by 7-15 percent. Lower energy consumption also reduces greenhouse gas emissions from power plants and shrinks a house's carbon footprint.

Current Specification Effective Date: January 1, 2015

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 window and door product lines qualify for the ENERGY STAR® Window and Door Program. For more specific information, please refer to the individual product sections in your Marvin Windows and Doors product catalog.



Windows

Climate Zone	U-Factor ¹	SHGC ²	
Northern	≤ 0.27	Any	Equivalent Energy Performance
	= 0.28	≥ 0.32	
	= 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

Air Leakage ≤ 0.3 cfm/ft²

¹ Btu/h ft²·°F

² Solar Heat Gain Coefficient

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 49 product types and 25,000+ 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](#)



ENERGY STAR® Program - Canada

This technical specification determines how residential windows, doors, and skylights sold in Canada are certified for the ENERGY STAR® program. This specification is issued by Natural Resources Canada (NRCAN). NRCAN has been authorized by the U.S. Environmental Protection Agency (EPA) to promote and administer the ENERGY STAR name and symbol in Canada. A product must meet this specification in order to be promoted as ENERGY STAR certified in Canada by its manufacturer or authorized agent. Manufacturers must also sign a Fenestration Administrative Arrangement with NRCAN.

Performance metrics

U-Factor: The heat transfer per time per area and per degree of temperature difference in $W/m^2 \cdot K$ ($Btu/h \cdot ft^2 \cdot ^\circ F$). The U-factor multiplied by the interior-exterior temperature difference and by the projected fenestration product area yields the total heat transfer through the fenestration product due to conduction, convection, and long-wave infra-red radiation. A U-factor in $Btu/h \cdot ft^2 \cdot ^\circ F$ multiplied by 5.678263 converts the value to $W/m^2 \cdot K$. The U-factor in $Btu/h \cdot ft^2 \cdot ^\circ F$ shall conform with Table 1 before the conversion to $W/m^2 \cdot K$.

Solar heat gain coefficient (SHGC): The ratio of the solar heat gain entering the space through the fenestration product to the incident solar radiation.

Air leakage: the flow of air that passes through fenestration products in $L/s/m^2$. Air leakage infiltration is the flow of air into the building envelope and exfiltration is the flow of air out of the building envelope. An air leakage in cfm/ft^2 multiplied by 5.08 converts the value to $L/s/m^2$. The air leakage value in cfm/ft^2 shall conform with Table 1 before the conversion to $L/s/m^2$.

Energy rating (ER): a unitless value derived from a formula that balances heat loss (U-factor), air leakage loss and potential passive solar gain of a fenestration product. The ER is applied to fenestration systems intended to be installed in a vertical orientation in low-rise residential buildings. The simplified ER equation is as follows:

$$ER = (57.76 \times SHGC_w) - (21.90 \times U_w) - (1.97 \times L_{75}) + 40 \text{ where}$$

- i. $SHGC_w$ = fenestration system solar heat gain coefficient
- ii. U_w = fenestration system U-factor (W/m^2)
- iii. L_{75} = fenestration system air leakage rate at a pressure difference of 75 Pa, established in accordance with AAMA/WDMA/CSA 101/I.S.2/A440 (North American Fenestration Standard) in $L/s \cdot m^2$. The L_{75} shall be the average of the infiltration and exfiltration measurements.

A complete explanation of the ER equation may be found in the CSA A440.2 Standard.

U-factor Criteria for Residential Windows and Doors

Product	Maximum U-factor $W/m^2 \cdot K$	Maximum U-factor $Btu/h \cdot ft^2 \cdot ^\circ F$
Windows and Doors	1.22	0.21

Alternate ER Criteria for Residential Windows and Doors

Product	Minimum ER (unitless)
Windows and Doors	34

U-factor Criteria for Unit Skylights

Product	Maximum U-factor $W/m^2 \cdot K$	Maximum U-factor $Btu/h \cdot ft^2 \cdot ^\circ F$
Skylights	2.29	0.4

Marvin options that meet the ENERGY STAR Canada criteria can be viewed in the NRCAN listing for [NRCAN ENERGY STAR Searchable Product List](#).

ENERGY STAR® Most Efficient - Canada**Most Efficient criteria for windows and sliding glass doors 2020**

The window or sliding glass door must:

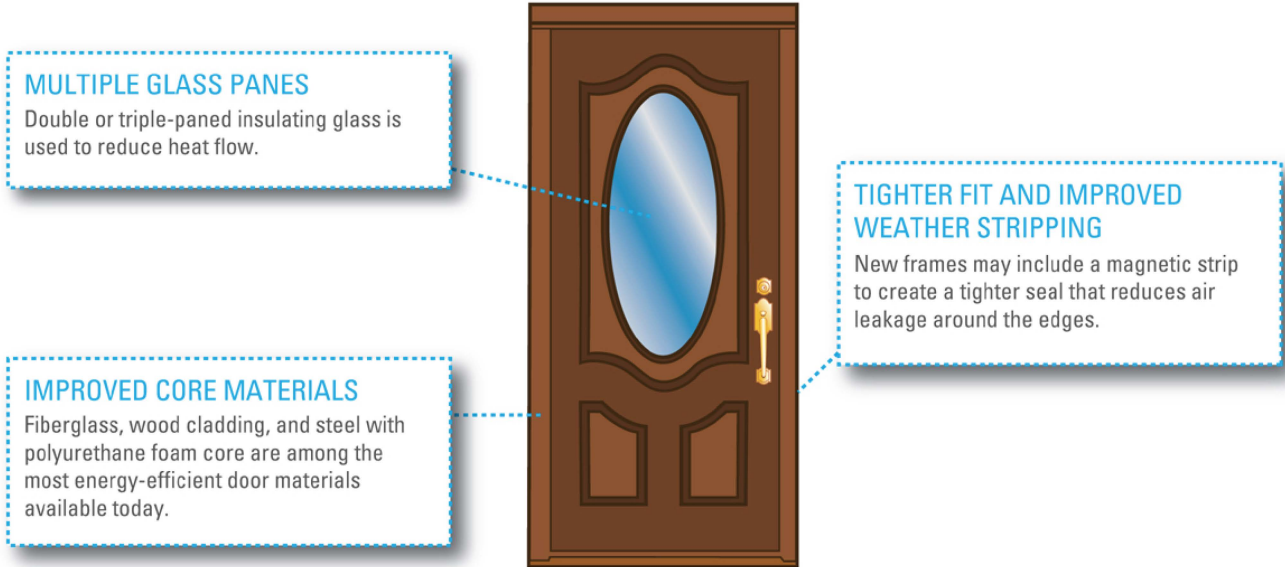
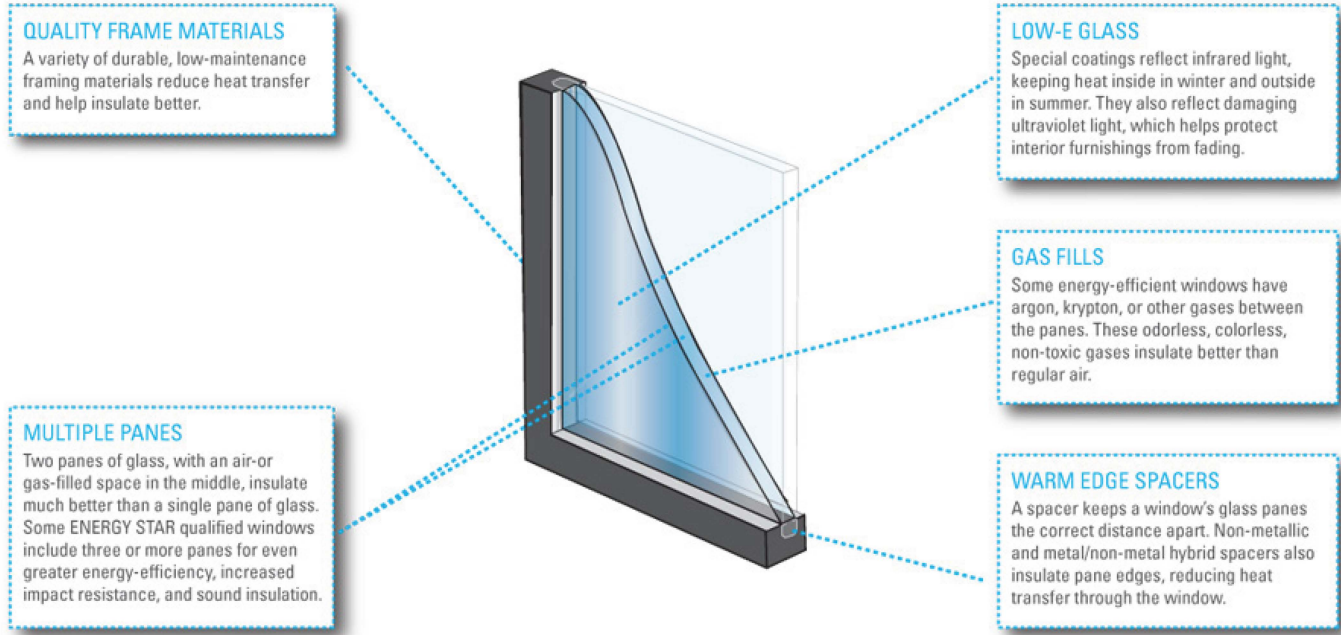
- be manufactured by an ENERGY STAR Canada Participant
 - be sold in Canada, registered with NRCan as ENERGY STAR certified and posted on the Canada/NRCan website
 - meet the labeling section of the *Guidelines for the labeling and promotion of ENERGY STAR certified fenestration products*
 - meet the following specific criteria:
 - A U-factor of $1.05 \text{ W/m}^2\cdot\text{K}$ ($0.18 \text{ Btu/h}\cdot\text{ft}^2\cdot^\circ\text{F}$) or lower
- OR**
- An Energy Rating (ER) of 40 (unitless) or higher

Marvin options that meet the Most efficient criteria can be viewed in the NRCan listing for [NRCan Most Efficient Windows and Sliding Glass Doors](#).



ENERGY STAR® Program

Today, manufacturers use an **array of technologies** to make ENERGY STAR qualified windows.



NFRC Certification Program

Who is the NFRC?

The National Fenestration Rating Council (NFRC) is a non-profit public/private group of manufacturers, builders, designers, specifiers, code officials, utilities, regulators and consumers formed to establish a national energy performance rating system for fenestration products.

Sanctioned by the federal government under the Energy Policy Act of 1992, NFRC will, over the next several years, in addition to U-Factor (thermal transmission), rate other factors, including solar heat gain, optical properties, air infiltration and condensation resistance.

It is important to note that the NFRC is not setting minimum performance standards or mandating specific performance levels. NFRC has established a single rating system with a rigorous process for comparing product performance. By certifying and labeling their products in accordance with the NFRC program, manufacturers demonstrate their commitment to provide accurate energy performance information.

Whole Product Performance

NFRC ratings are based on “whole product performance”. Although a window, door, or skylight may have high performance glazing, its overall performance may be reduced by a poorly performing frame. Similarly, a very energy efficient frame may be wasted on ineffective glazing and sealing. Whole product performance helps builders and consumers compare products of different construction and attributes directly.

When reading a NFRC Label, it is important to remember that the U-Factor, SHGC, and VT, values represent the whole window, not the center-of-glass

NFRC Labeling

Certification and Labeling Process




Window and door manufacturers attempting to certify their fenestration products are required to have them evaluated by two different types of independent NFRC accredited laboratories.

1. The first type of laboratory is a computer simulation lab which evaluates a window or door's thermal efficiency by computer simulation programs. The computer program takes into account the product's frame and glazing system attributes and derives an overall product U-Factor.
2. The second type of laboratory is a physical testing laboratory which takes an actual product and evaluates it in a thermal chamber. The physical test lab will also derive an overall product U-Factor.

For additional regional information, please contact your local Marvin Windows and Doors representative.

For complete NFRC ratings, please visit <http://pros.marvin.com/resources/architectural-detail-manual/>

NFRC Label

 IG ATURE COLLECTI	
ENERGY STAR® Certified in Highlighted Regions	
	 <p style="text-align: right; font-size: small;">Certified</p>
 <p style="text-align: center; font-size: x-small;">National Fenestration Rating Council CERTIFIED</p>	<p>UL CSMNT WA/WA Casement 3/4" IG Low E2 Arg 3.1mm 272 / 13.0mm arg / 3.1mm clr</p> <p>.006 SS - D Pine or EQU</p> <p>MAR - -342 - 13243 - 00001</p>
ENERGY PERFORMANCE RATINGS	
U-Factor 0.29 <small>(U.S./-P)</small>	SOLAR HEAT GAIN COEFFICIENT 0.29
ADDITIONAL PERFORMANCE RATINGS	
VISIBLE TRANSMITTANCE 0.49	
Manufacturer stipulates that these ratings conform to applicable NFRC procedures for determining whole product performance. NFRC ratings are determined for a fixed set of environmental conditions and a specific product size. NFRC does not recommend any product and does not warrant the suitability of any product for any specific use. Consult manufacturers literature for other product performance information. www.nfrc.org	
 <p style="text-align: center; font-size: x-small;">WINDOW & DOOR MANUFACTURERS ASSOCIATION WDMA Hallmark Certified <small>www.wdma.com</small></p>	<p>Ultimate Casement</p> <p>Manufacturer Stipulates Hallmark Certification As Indicated Below</p>
UNIT	
Hallmark Product Number	407 - H - 918
AAMA/WDMA/CSA-1011.1 S.2/A440-08	CW - PG50 914X2442 mm (36X96 13 in)
POSITIVE DESIGN PRESSURE (DP)	+50 psf
NEGATIVE DESIGN PRESSURE (DP)	-50 psf
Water Penetration Test Pressure	7.5 psf
MULL	
Hallmark Product Number	407 - H - 1137
AAMA 450 - 10 Option 1	
POSITIVE DESIGN PRESSURE (DP)	+70 psf
NEGATIVE DESIGN PRESSURE (DP)	-70 psf
OVERALL RATING CW - PG50 WATER RESISTANCE 10.65 psf	
CL02216	1 A1
Do Not Remove this label prior to inspection. Save for future reference	

Energy Star

NFRC

WDMA

Building Categories and Design Factors

Design Wind Pressure (PSF) - ASCE 7 -05												
Location	Zone	Effective Wind Area (SF)	Basic Wind Speed V (MPH)									
			110		115		120		130		140	
Walls	4	10	+22	-24	+24	-26	+26	-28	+30	-33	+35	-38
		50	+20	-21	+21	-23	+23	-25	+27	-30	+32	-35
		500	+16	-18	+18	-20	+19	-22	+23	-25	+26	-29
			150		160		180		200			
		10	+41	-44	+46	-50	+58	-63	+72	-78		
		50	+36	-40	+41	-45	+52	-57	+64	-71		
		500	+30	-34	+34	-38	+44	-48	+54	-60		
Walls	5		110		115		120		130		140	
		10	+22	-29	+24	-32	+26	-35	+30	-41	+35	-47
		50	+20	-25	+21	-27	+23	-29	+27	-34	+32	-40
		500	+16	-18	+18	-20	+19	-22	+23	-25	+26	-29
			150		160		180		200			
		10	+41	-54	+46	-62	+58	-78	+72	-96		
		50	+36	-46	+41	-52	+52	-66	+64	-81		
500	+30	-34	+34	-38	+44	-48	+54	-60				

Metric Conversions: 1 PSF = 47.9 pascals

1 SF = 0.0929 SM

1 MPH = 0.447 M/S

NOTE:

- Design wind pressures above represent the net pressure (sum of external and internal pressures) applied normal to all surfaces.
- Values shown are for exposure B. For other exposures, multiply values shown by the following factor: exposure C: 1.40 and exposure D: 1.66
- Linear interpolation between values of tributary area is permissible.
- Values shown are for an importance factor I = 1.0. For other values of I, multiply values shown by I.
- Plus and minus signs signify pressure acting toward and away from the exterior surface, respectively.
- All component and cladding elements shall be designed for both positive and negative pressures shown in the table.
- Notation:
 - 10% of least horizontal dimension or 0.4 h, whichever is smaller, but not less than 40% of least horizontal dimension or 3 ft.
 - Mean roof height in feet (meters).

BUILDING WIND LOADS

“The information presented is provided to simplify the determination of structural wind load requirements of ASCE 7-05. ASCE 7-05 may not have local precedence. Please refer to your local codes for design pressures that apply to your area.”

ASCE 7-05 Design wind load tables are based on the following:

- Wind loads tables are based on Exposure B.
- Tributary area of the structural elements is less than or equal to 10 sq. ft.
- Does not apply to roof areas.
- Roof slope is greater than 10 degrees.
- Building is less than or equal to 30 feet tall.
- The building is completely enclosed, all windows and doors are designed to withstand full wind load.
- Applicable to components and cladding, which include windows and doors.

If the tributary area is greater than 10 sq. ft. or if the roof slope is less than 10 degrees, the design wind loads from this table may be conservative. However, if the building has openings in the elevation which may allow wind to pass through, the design values in the tables may be too low. For these cases, ASCE 7-05 should be consulted.

NOTE: Windows and doors designed to resist wind loading are not considered openings.

Building Categories and Design Factors**EXPOSURES**

Exposure B: Urban and suburban areas, wooded areas, or other terrain with numerous closely spaced obstructions having the size of single family dwellings or larger. For buildings with a mean roof height of less than or equal to 30ft (9.1m). Exposure B shall apply where the ground surface roughness, as defined by Surface Roughness B, prevails in the upwind direction for a distance greater than 1,500ft (457m). For buildings with a mean roof height greater than 30ft (9.1m), Exposure B shall apply where Surface Roughness B prevails in the upwind direction for a distance greater than 2,600ft (792m) or 20 times the height of the building, whichever is greater.

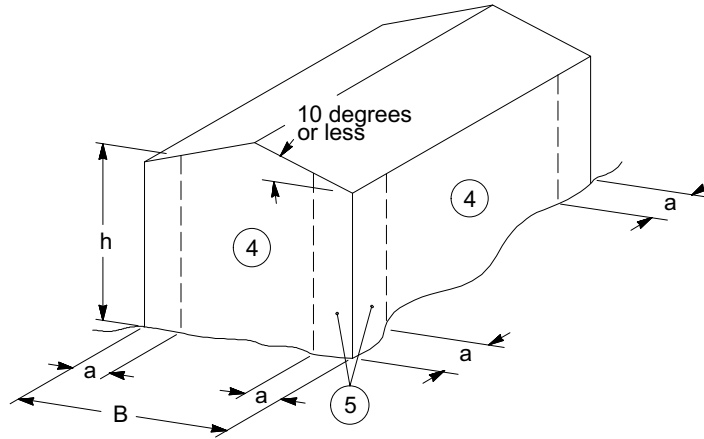
Exposure C: Open terrain with scattered obstructions having heights generally less than 30 ft. (9.1 m). This category includes flat open country, grasslands. Shall apply for all cases where Exposures B or D do not apply.

Exposure D: Flat, unobstructed areas and water surfaces. This category includes smooth mud flats, salt flats, and unbroken ice. Shall apply where the ground surface roughness, as defined by Surface Roughness D, prevails in the upwind direction for a distance greater than 5,000ft (1,524m) or 20 times the building height, whichever is greater. Exposure D shall also apply where the ground surface roughness immediately upwind of the site is B or C, and the site is within a distance of 600ft (183m) or 20 times the building height, whichever is greater, from the Exposure D condition as defined in the previous sentence. For a site located in the transition zone between exposure categories, the category resulting in the largest wind forces shall be used.

INSTRUCTIONS:

- Determine the Basic Wind Speed (V) in mph from Design Wind Load Table based on the location of the building.
- Determine the Roof Height (h) of the building in feet. This is the mean height of the roof above the lowest grade adjacent to the building. Eave height may be used for roof slope of less than 10 degrees.
- Determine least width (B) of the building in feet. This is defined as the shortest distance between two parallel lines which contain the entire building floor plan.
- Determine high pressure outside corner loading zones (a) in feet from building illustration on following page. $a = (0.10) \times (B)$ or $a = (0.4) \times (h)$, whichever is smaller, but not less than either $(0.04) \times (B)$ or 3 feet (76).
- Determine design pressure from Design Pressure Table.
- All design pressure values are assumed for buildings with an importance Factor Category of II. See Design Factors chart on following page.
- If category III, IV is more appropriate then multiply the design pressure by the corresponding Design Factor - See Design Factor chart.

Building Categories and Design Factors



RISK CATEGORY	NATURE OF OCCUPANCY
I	Buildings and other structures that represent a low hazard to human life in the event of failure. <ul style="list-style-type: none"> • Agricultural facilities. • Certain temporary facilities. • Minor storage facilities.
II	Buildings and other structures except those listed in Risk Categories I, III and IV
III	<ul style="list-style-type: none"> • Buildings and other structures that represent a substantial hazard to human life in the event of failure, such as, schools, colleges, large day care facilities, resident care recipients but not having surgery or emergency treatment facilities. • Any other occupancy with an occupant load greater than 5,000. • Power-generating stations, water treatment facilities for potable water, waste water treatment facilities, other public utility facilities, buildings and other structures containing quantities of toxic or explosive materials that exceed maximum allowable quantities per control area.
IV	Buildings and other structures designated as essential facilities, such as, hospitals, surgery or emergency facilities. <ul style="list-style-type: none"> • Fire, rescue, ambulance and police stations and emergency vehicle garages. • Designated earthquake, hurricane or other emergency shelters, emergency preparedness, communications and operations centers and other facilities required for emergency response. • Power-generating stations, public utility facilities required as emergency backup facilities. • Buildings/structures containing quantities of highly toxic materials. • Aviation control towers, air traffic control centers and emergency aircraft hangars. • Buildings and other structures having critical national defense functions. • Water storage facilities and pump structures required to maintain water pressure for fire suppression.

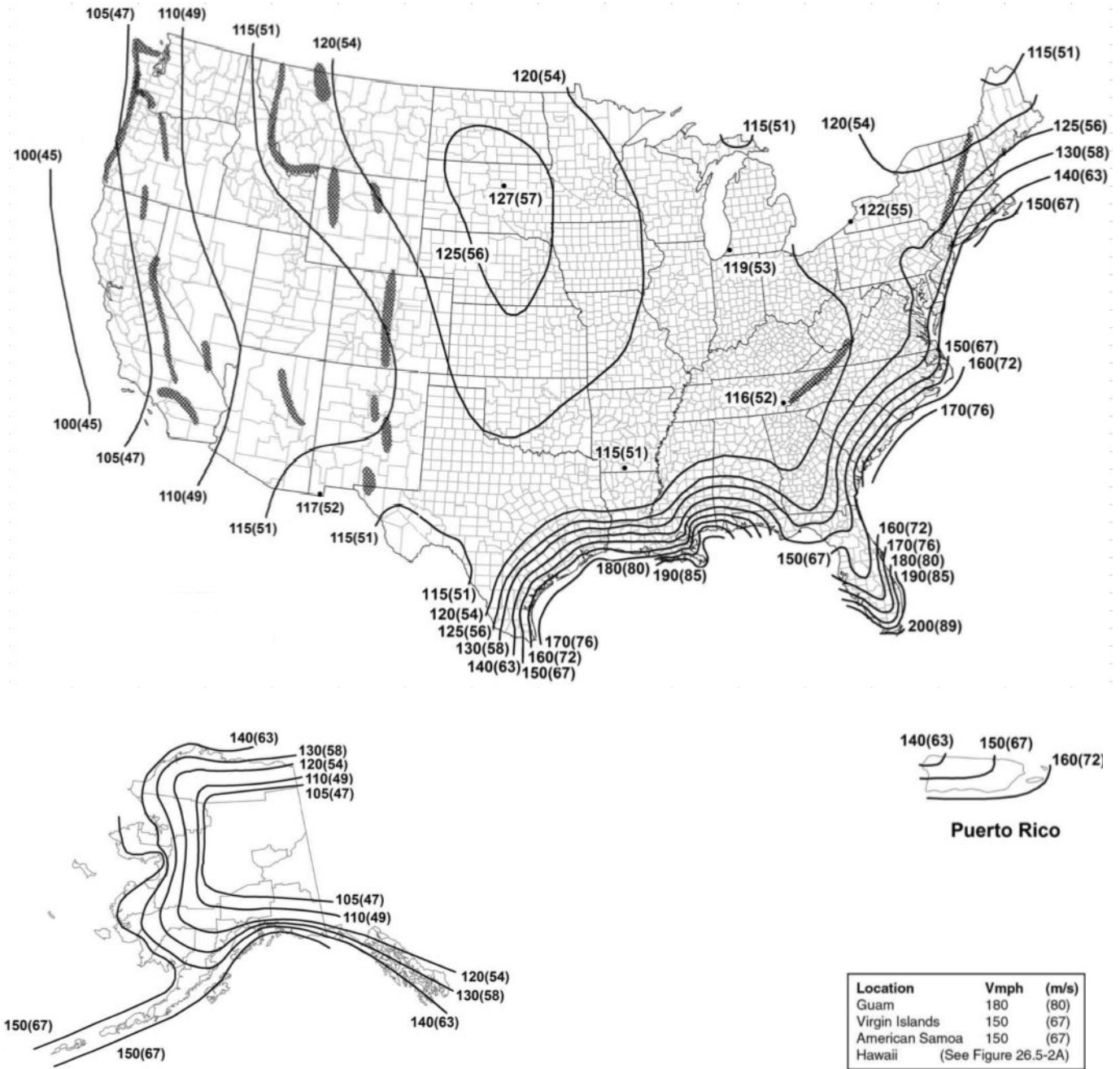
NOTE: This is an abbreviated version of the 2015 International Building Code (IBC) Table 1604.5. Please, check with your local building code official(s) for current requirements in your area.

Design Factors		
Category	Non-Hurricane prone regions and Hurricane prone regions with V = 85/100 mph and Alaska	Hurricane prone regions with V greater than 100 mph
I	0.87	0.77
II	1.00	1.00
III	1.15	1.15
IV	1.15	1.15

Wind Speed Map - ASCE 7-16

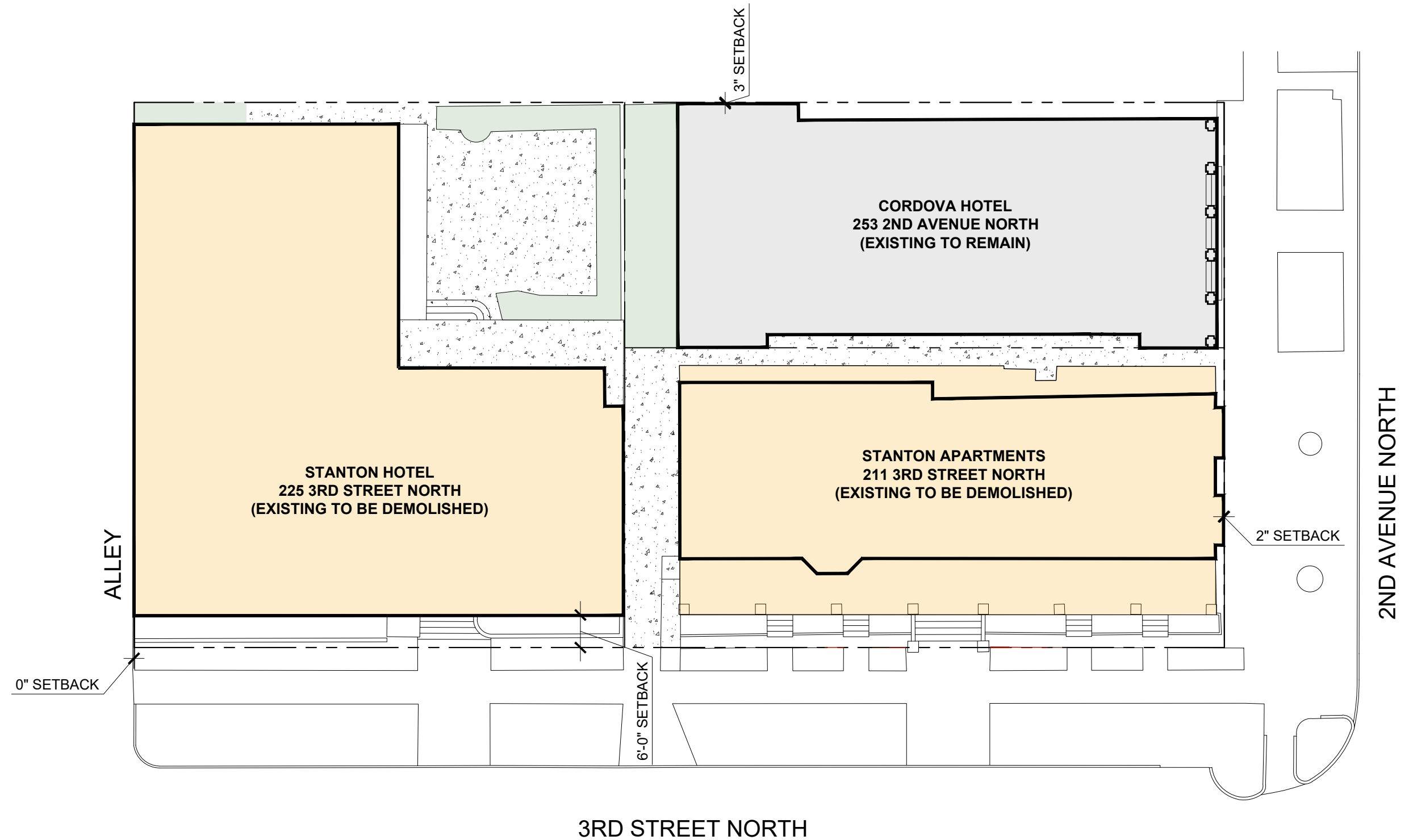
NOTES: Basic Wind Speeds for Occupancy Category II Buildings and Other Structures.

- Values are nominal design 3-second gust wind speeds in miles per hour (m/s) at 33ft (10m) above ground for Exposure C category.
- Linear interpolation between contours is permitted.
- Islands and coastal areas outside the last contour shall use the last wind speed contour of the coastal area.
- Mountainous terrain, gorges, ocean promontories, and special wind regions shall be examined for unusual wind conditions.
- Wind speeds correspond to approximately a 7% probability of exceedance in 50 years (Annual Exceedance Probability = 0.00143, MRI = 700 Years).



Altitude Guidance

Marvin provides Capillary Tube Usage Guidelines for all products, available upon request. Capillary tubes are also recommended in smaller lites or ADL units where one side of glass is less than 12" (305) in length at elevations of 3,000 feet or more above sea level. Partners who serve high altitude markets are expected to consult the Capillary Tube Usage Guidelines and make appropriate selections based on product size, installed altitude, and highest transportation altitude.



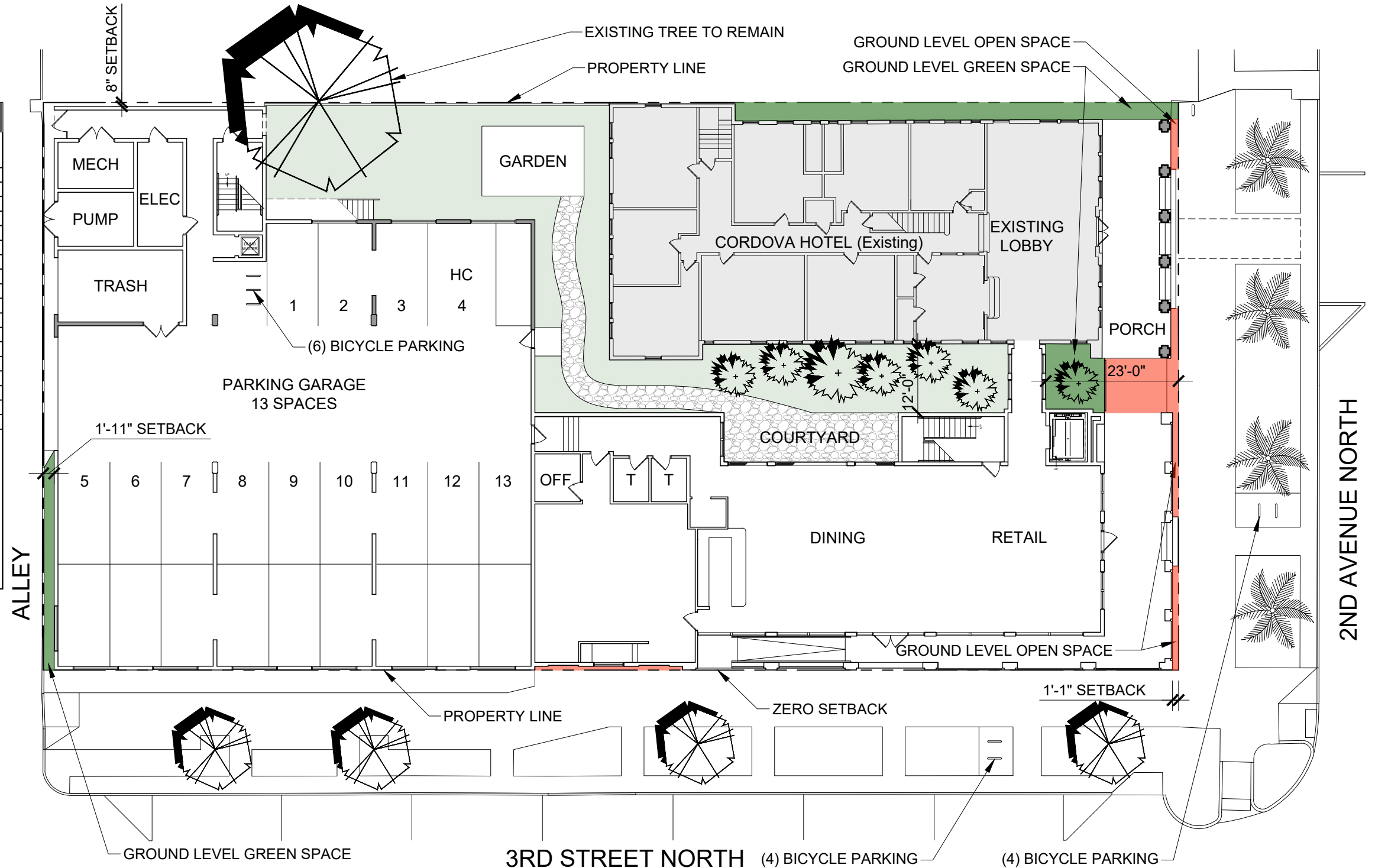
EXISTING TO BE DEMOLISHED

EXISTING TO REMAIN

Site Plan - Existing
SCALE: 1" = 20'-0"

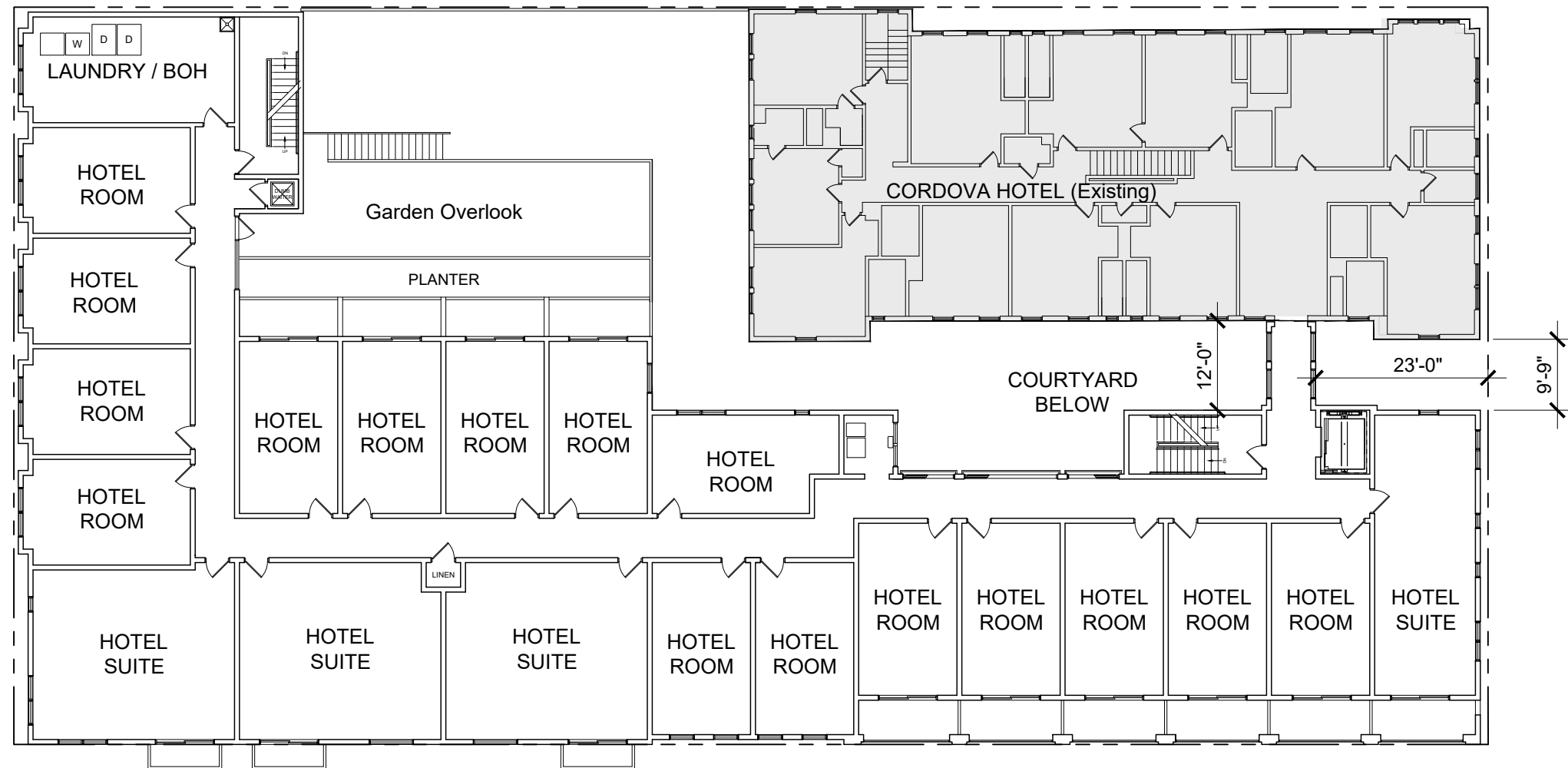
PROJECT STATISTICS			
	EXISTING	PROPOSED	PERMITTED / REQUIRED
North Setback	0'-0"	1'-11"	0'-0"
East Setback	0'-3"	0'-8"	0'-0"
South Setback	0'-2"	1'-1"	0'-0"
West Setback	6'-0"	0'-0"	0'-0"
Building Height	43'-0"	66'-0"	300'-0"
Number of Stories	3	5	
Site Area	20,000	20,000	
Gross Building Area	21,748 GSF	38,260 GSF	60,000 GSF
Floor Area Ratio	1.09	1.93	3
Residential Units	49	1	
Hotel Rooms	32	94	
Parking Spaces*	0	13	13
Bicycle Parking Spaces	0	14	2

New Hotel Rooms - 62 / 4 = 15.5 required parking spaces
 New Residential Unit - 1 = 1 required parking space
PARKING REQUIRED = 16.5
 10% reduction for proximity to frequent transit = -1.65
 Reduction for provided bicycle parking = -2**
PARKING REQUIRED, after allowed reductions = 12.85 = 13
 **12 bicycle parking spaces have been provided over the minimum in exchange for a reduction in the automobile parking requirements at a rate of 6 bicycle parking spaces per 1 automobile space (for a total reduction of 2 less automobile spaces required).

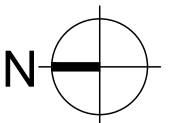


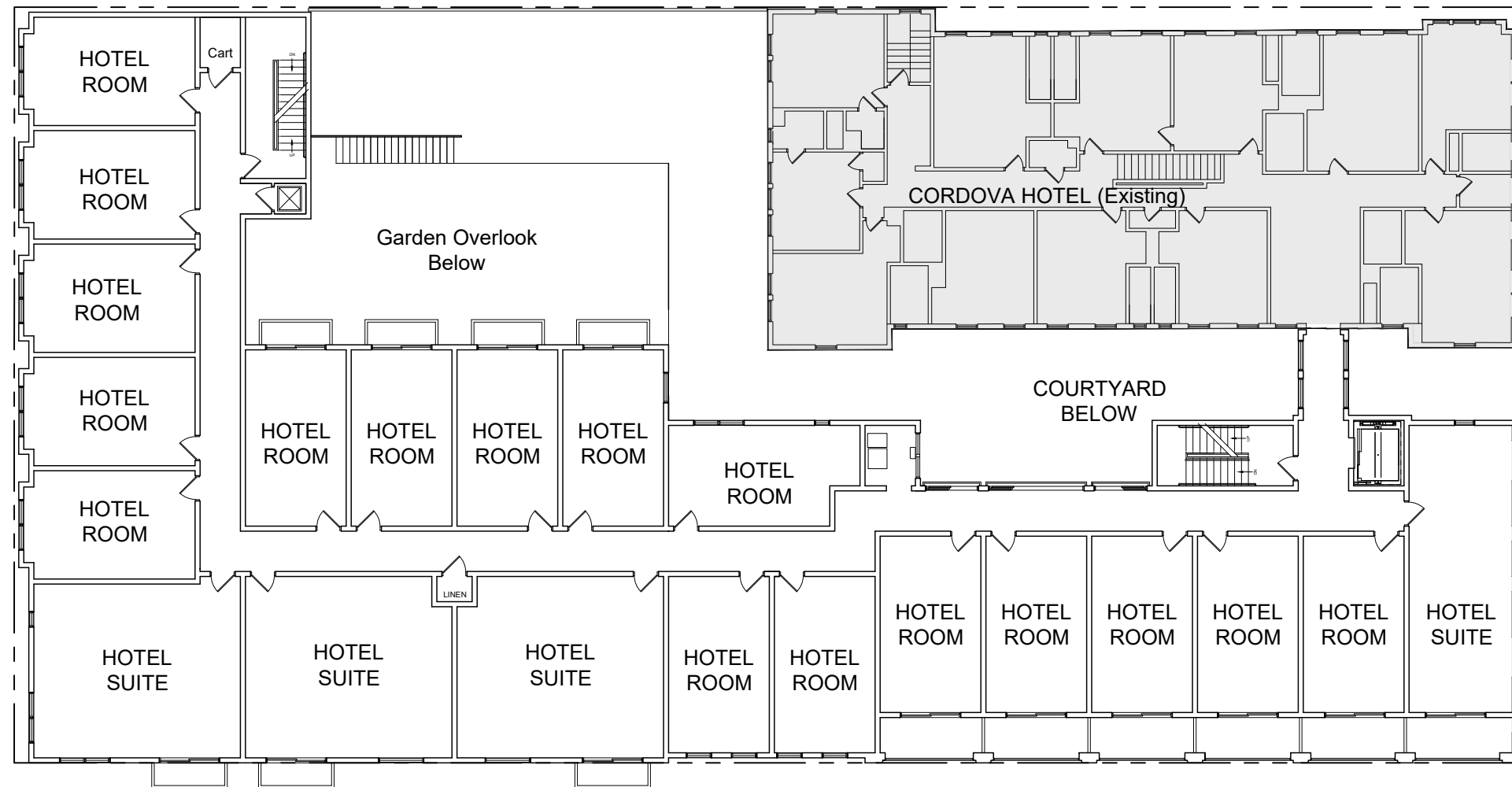
- OPEN GREEN SPACE
- GROUND LEVEL GREEN SPACE
- GROUND LEVEL OPEN SPACE

Site Plan - Proposed
 SCALE: 1" = 20'-0"

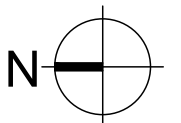


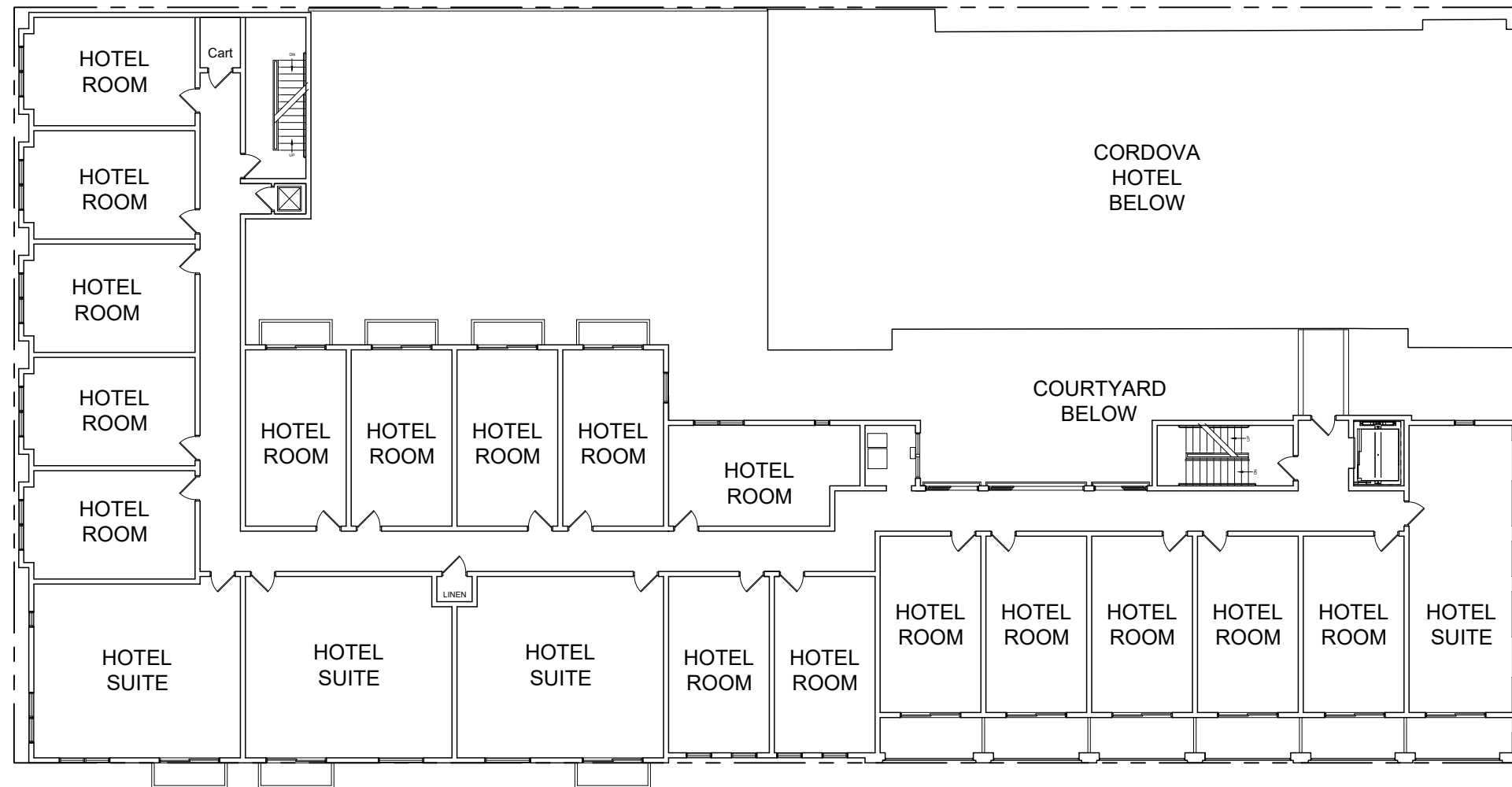
2 Second Floor Plan
SCALE: 1" = 20'-0"



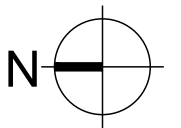


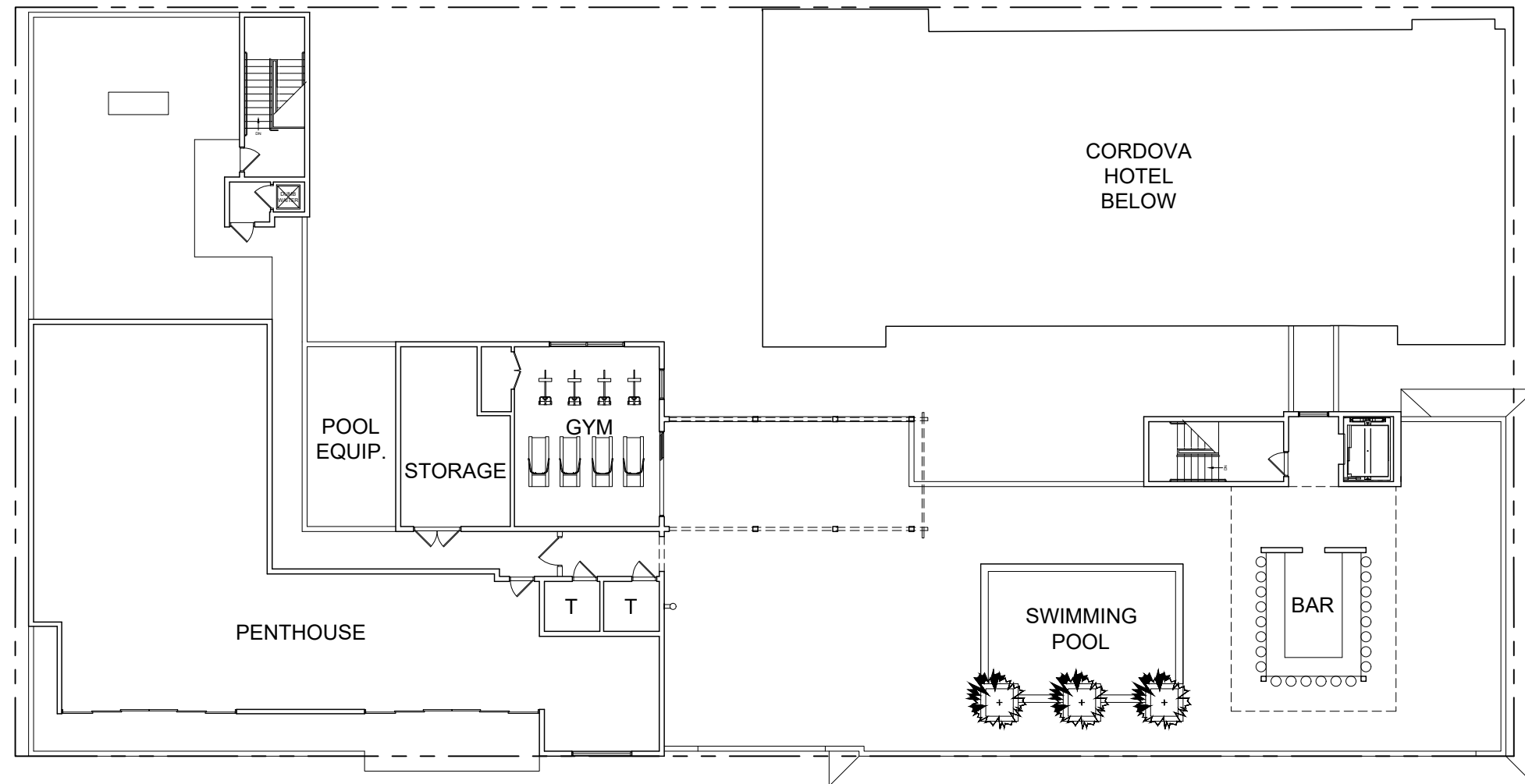
3 Third Floor Plan
SCALE: 1" = 20'-0"



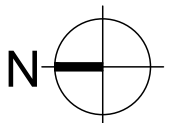


4 Fourth Floor Plan
SCALE: 1" = 20'-0"





5 Fifth Floor (Roof) Plan
SCALE: 1" = 20'-0"





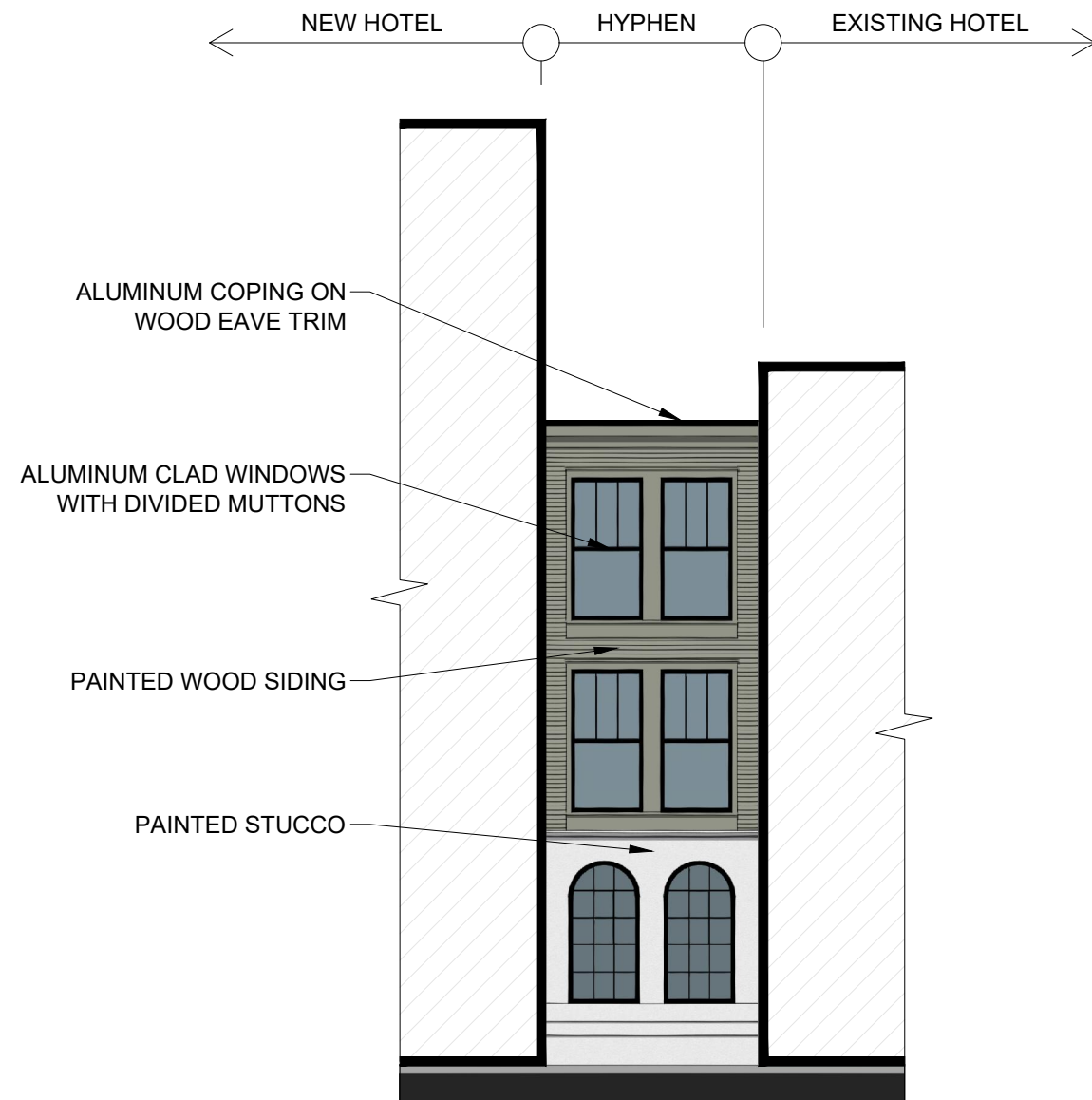
6 West Elevation
SCALE: 1" = 20'-0"



7 South Elevation
SCALE: 1" = 20'-0"



7A South Elevation
(Landscaping at Hyphen Hidden)
SCALE: 1" = 20'-0"



8 Partial Hyphen Elevation
SCALE: 1" = 10'-0"

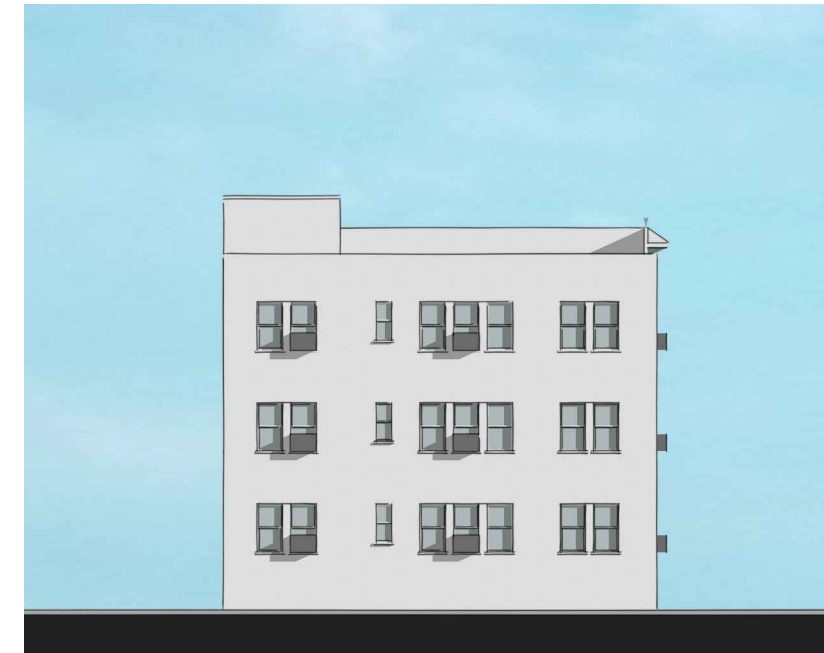
9 North Elevation
SCALE: 1" = 20'-0"



10 East Elevation
SCALE: 1" = 20'-0"



13 Existing West Elevation
SCALE: 1" = 20'-0"



14 Existing North Elevation
SCALE: 1" = 20'-0"



11 Existing East Elevation
SCALE: 1" = 20'-0"



12 Existing South Elevation
SCALE: 1" = 20'-0"



15 East Perspective
NOT TO SCALE



16 West Perspective
NOT TO SCALE



17 South Perspective
NOT TO SCALE

Appendix B:

Public Comment

Tuesday, October 12th, 2021

Commission Members
Community Planning & Preservation Commission
City of St. Petersburg
PO Box 2842
St. Petersburg, FL 33731



Re: October 12th, 2021 Public Hearing, File No. 21-90200100

Dear Commission Members:

I was planning to attend today's public hearing regarding the Cordova Hotel, but it was cancelled.

I'm now sending this letter to implore you to help the tenants of the Stanton Hotel Apartments. As a long-time St. Pete resident and downtown St. Pete business owner, I am appalled by the recent actions of TJM Properties and New Hotel Collection (owners of Cordova Inn).

Cordova Inn's approach to purchasing the Stanton Hotel Apartments is a very serious issue that needs immediate attention. It's more than a zoning matter. It's a human rights matter affecting lives of dozens of members of our community — people who are just like you and me.

The current owner, TJM Properties, and New Hotel Collection are attempting to skirt a city ordinance that requires developers to give residents 90 days before a demolition project takes place.

The tenants of the Stanton Hotel Apartments deserve, at a minimum, a 90-day notice and \$6,000 in financial assistance to be able to find adequate housing and avoid devastating interruptions to their lives.

TJM Properties and New Hotel Collection are multi-million dollar companies. They can afford and should be required to do what is needed to make this situation fair and dignified for the effected tenants. Thus far, they have shown a complete disregard for the lives and wellbeing of the tenants in question. While their approach may not be illegal, it is wrong and inhumane.

This is TJM Properties and New Hotel Collection's opportunity to be good community members. This is also the City's opportunity to protect its residents.

These are the moments that matter the most. Let's make them count and do the right thing for the tenants of the Stanton Hotel Apartments, our city and human kind.

We live in a beautiful city. Parts of that beauty are the people who live here. We should do what it takes to protect our community members and require more from companies that want to benefit from our city's beauty.

Please do the right thing and help the tenants of the Stanton Hotel Apartments.

Respectfully,

A handwritten signature in blue ink, appearing to read "Mirela Setkic".

Mirela Setkic



November 2, 2021

Chairman Copley Gerdes and Commission Members
Community Planning & Preservation Commission
Delivered by Email

RE: COA for alterations/new construction for the Cordova Hotel

Chairman Gerdes and Commission Members:

Preserve the 'Burg (PTB) offers these comments regarding the COA for alterations/new construction to the Cordova Hotel, a locally designated landmark. PTB supports the application. We appreciate the early outreach and the opportunities that the New Hotel Collections team has offered PTB to review and comment on the plans for the project.

While the overall Cordova Hotel project will result in the demolition of the Mitchel Apartments, a building listed on the PEL, PTB believes that the project as a whole will result in a positive outcome for preserving the best of our downtown's historic resources. The new construction associated with the project importantly offers new buildings in scale with the adjacent historic resources, including the Cordova Hotel, as well as the Stewart Building to the north, the First United Methodist Church across 3rd Street to the west, and Williams Park. Clearly, with the downtown zoning classification for the properties, a building significantly taller, more intense, and out of scale with these resources could have occurred.

The overall project will serve as an example of how historic buildings can be economically and successfully reused in the heart of downtown. For this reason, PTB supports your approval of the application.

Sincerely,

/s/

Peter Belmont
Advocacy Chair

cc: Derek Kilborn
Katie Cole



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P.O. BOX 838 ST. PETERSBURG, FL 33731

Appendix C:

Maps of Subject Property

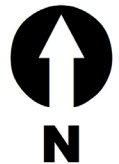


Community Planning and Preservation Commission

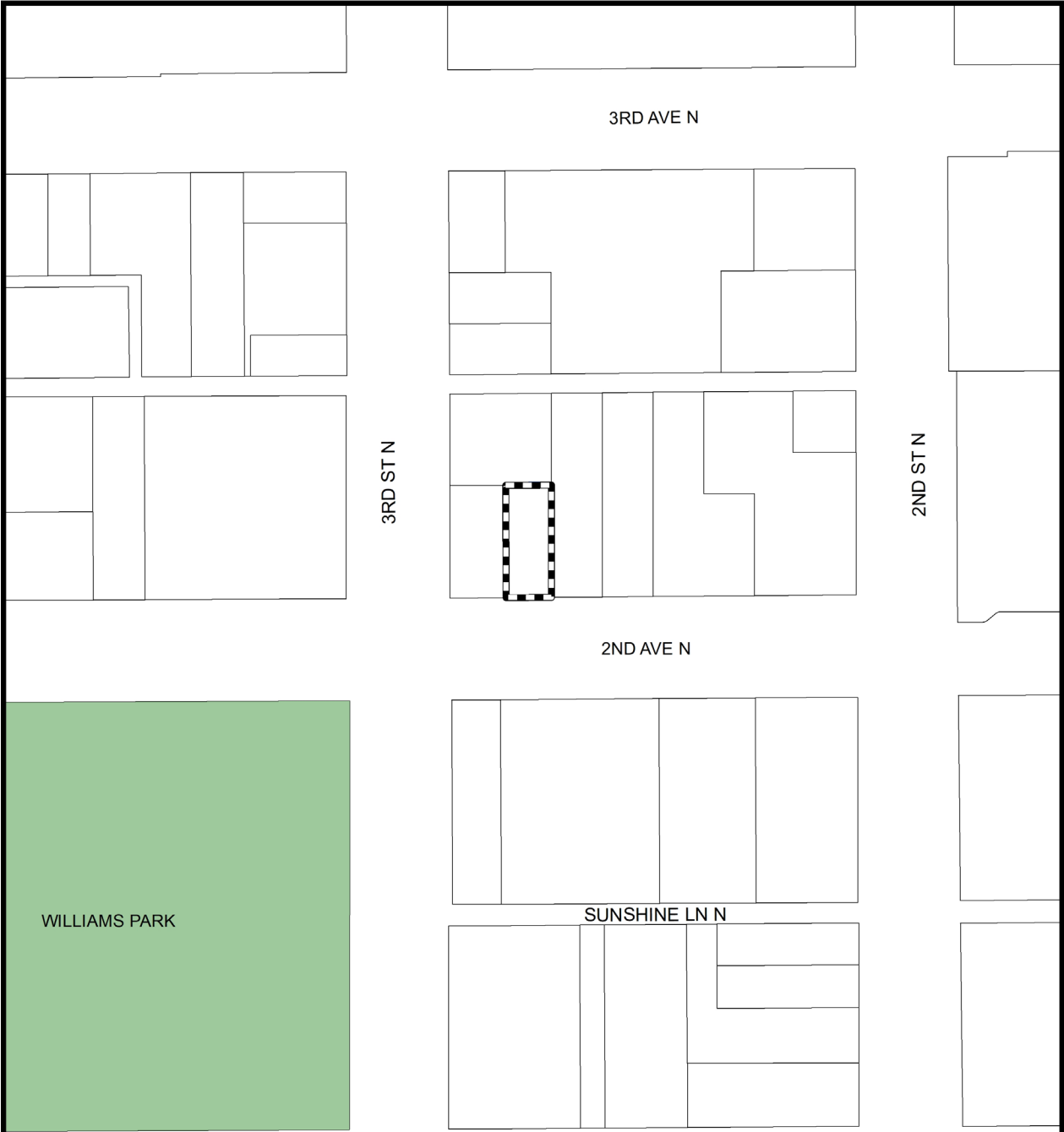
Hotel Cordova (253 2nd Ave N)

**AREA TO BE APPROVED,
SHOWN IN** 

**CASE NUMBER
21-90200100**



**SCALE:
1" = 140'**



Community Planning and Preservation Commission

Hotel Cordova (253 2nd Ave N)

**AREA TO BE APPROVED,
SHOWN IN** 

**CASE NUMBER
21-90200100**



**SCALE:
1" = 140'**