STAFF RECOMMENDATION

Staff recommends that the HPC approve the HAWP application.

ARCHITECTURAL DESCRIPTION

SIGNIFICANCE: Outstanding Resource within the Chevy Chase Village Historic District
STYLE: Shingle
DATE: c. 1892-1916

PROPOSAL

The applicant proposes the following alterations at the subject property:

- Underpin the foundation and dig out the existing crawlspace, creating a full basement.
- Replace the existing crawlspace doors on the right and left elevations with clad windows in the same openings.
- Install new egress windows with window well on the rear elevation.
- Replace the existing windows on the left side of an existing rear addition with French and sliding doors.
- Replace the existing aluminum storm windows in-kind.
- Replace an existing basement door at the rear.

APPLICABLE GUIDELINES

When reviewing alterations and new construction within the Chevy Chase Village Historic District several documents are to be utilized as guidelines to assist the Commission in developing their decision. These documents include the historic preservation review guidelines in the approved and adopted amendment for the Chevy Chase Village Historic District (Guidelines), Montgomery County Code Chapter 24A (Chapter 24A), and the Secretary of the Interior’s Standards for Rehabilitation (Standards). The pertinent information in these documents is outlined below.
Montgomery County Code; Chapter 24A-8

(a) The commission shall instruct the director to deny a permit if it finds, based on the evidence and information presented to or before the commission that the alteration for which the permit is sought would be inappropriate, inconsistent with or detrimental to the preservation, enhancement or ultimate protection of the historic site or historic resource within an historic district, and to the purposes of this chapter.

(b) The commission shall instruct the director to issue a permit, or issue a permit subject to such conditions as are found to be necessary to insure conformity with the purposes and requirements of this chapter, if it finds that:

(1) The proposal will not substantially alter the exterior features of an historic site or historic resource within an historic district; or

(2) The proposal is compatible in character and nature with the historical, archeological, architectural or cultural features of the historic site or the historic district in which an historic resource is located and would not be detrimental thereto or to the achievement of the purposes of this chapter; or

(3) The proposal would enhance or aid in the protection, preservation and public or private utilization of the historic site or historic resource located within an historic district in a manner compatible with the historical, archeological, architectural or cultural value of the historic site or historic district in which an historic resource is located; or

(4) The proposal is necessary in order that unsafe conditions or health hazards be remedied; or

(5) The proposal is necessary in order that the owner of the subject property not be deprived of reasonable use of the property or suffer undue hardship; or

(6) In balancing the interests of the public in preserving the historic site or historic resource located within an historic district, with the interests of the public from the use and benefit of the alternative proposal, the general public welfare is better served by granting the permit.

(c) It is not the intent of this chapter to limit new construction, alteration or repairs to any 1 period or architectural style.

(d) In the case of an application for work on an historic resource located within an historic district, the commission shall be lenient in its judgment of plans for structures of little historical or design significance or for plans involving new construction, unless such plans would seriously impair the historic or architectural value of surrounding historic resources or would impair the character of the historic district. (Ord. No. 9-4, § 1; Ord. No. 11-59.)

Chevy Chase Village Historic District Guidelines

The guidelines break down specific projects into three levels of review – Lenient, Moderate and Strict Scrutiny.

“Lenient Scrutiny” means that the emphasis of the review should be on issues of general massing and scale, and compatibility with the surrounding streetscape, and should allow for a very liberal
interpretation of preservation rules. Most changes should be permitted unless there are major problems with massing, scale and compatibility.

“Moderate Scrutiny” involves a higher standard of review than “lenient scrutiny.” Besides issues of massing, scale and compatibility, preserving the integrity of the resource is taken into account. Alterations should be designed so that the altered structure still contributes to the district. Use of compatible new materials, rather than the original building materials, should be permitted. Planned changes should be compatible with the structure’s existing design, but should not be required to replicate its architectural style.

“Strict Scrutiny” means that the planned changes should be reviewed to insure that the integrity of the significant exterior architectural or landscaping features and details is not compromised. However, strict scrutiny should not be “strict in theory but fatal in fact” i.e. it does not mean that there can be no changes but simply that the proposed changes should be reviewed with extra care.

The Guidelines state three basic policies that should be adhered to, including:

Preserving the integrity of the contributing structures in the district. Alterations to contributing structures should be designed in such a way that the altered structure still contributes to the district.

Design review emphasis should be restricted to changes that will be visible from the front or side public right-of-way, or that would be visible in the absence of vegetation or landscaping.

Alterations to the portion of a property that are not visible from the public right-of-way should be subject to very lenient review. Most changes to rear of the properties should be approved as a matter of course.

The Guidelines that pertain to this project are as follows:

**Doors** should be subject to moderate scrutiny if they are visible from the public right-of-way, lenient scrutiny if they are not. For outstanding resources, they should be subject to strict scrutiny if they are visible from the public right-of-way. Addition of compatible storm doors should be encouraged.

**Windows** (including window replacement) should be subject to moderate scrutiny if they are visible from the public right-of-way, lenient scrutiny if they are not. For outstanding resources, they should be subject to strict scrutiny. Addition of compatible exterior storm windows should be encouraged, whether visible from the public right-of-way or not. Vinyl and aluminum windows (other than storm windows) should be discouraged. Addition of security bars should be subject to lenient scrutiny, whether visible from the public right-of-way or not.

**Secretary of the Interior’s Standards for Rehabilitation:**

1. A property shall 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.

2. The historic character of a property shall be retained and preserved. The removal of historic materials or alteration of features and spaces that characterize a property shall be avoided.

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, shall not be undertaken.

4. Most properties change over time; those changes that have acquired historic significance in their own right shall be retained and preserved.
5. Distinctive features, finishes, and construction techniques or examples of craftsmanship that characterize a historic property shall be preserved.

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, color, texture, and other visual qualities and, where possible, materials. Replacement of missing features shall be substantiated by documentary, physical, or pictorial evidence.

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.

8. Significant archaeological resources affected by a project shall be protected and preserved. If such resources must be disturbed, mitigation measures shall be undertaken.

9. New additions, exterior alterations, or related new construction shall not destroy historic materials that characterize the property. The new work 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 property and its environment.

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

**STAFF DISCUSSION**

The subject property is a c. 1892-1916 Shingle-style Outstanding Resource within the Chevy Chase Village Historic District. The house has a large front setback and the lot is steeply sloped, making the sides/rear of the house negligibly visible from the public right-of-way, at best.

After review of the submitted information, staff supports the applicants’ proposal, finding the following:

**Crawlspace Doors/Basement Windows**

The applicant proposes to underpin the house’s foundation and dig out the existing crawlspace, creating a full basement. The existing 3-panel wooden crawlspace doors (four total, with two on the right elevation and two of the left elevation) will be replaced with 3-lite aluminum-clad wood windows within the existing openings. The proposed door-to-window alterations are entirely at the foundation-level, and, due to the sloping lot and the house’s setback from the street, will not be visible from the public right-of-way.

The proposed 3-lite windows are compatible with the historic house, as they take cues from the 3-over-2 windows of the historic house as well as the three panel crawlspace doors that are being replaced. The submitted specifications indicate that the proposed new windows will have permanently affixed 7/8” profile muntins with spacer bars, which is consistent with the HPC’s requirements for new simulated divided lite (SDL) windows.

**Egress Windows/Window Well**

The applicant proposes to install three ganged egress windows and a window well at the rear elevation of the historic house. The proposed alterations are at the foundation-level and entirely at the rear, and they will not be visible from the public right-of-way. In accordance with the Guidelines, design review emphasis should be restricted to changes that will be visible from the front or side.
public right-of-way.

The submitted specifications indicate that the proposed new windows will have permanently affixed 7/8” profile muntins with spacer bars, which is consistent with the HPC’s requirements for new SDL windows.

**Window Replacement/French Door Installation**

The applicant proposes to replace a paired 3-over-2 double-hung window on the left elevation of an existing rear addition with French and sliding doors. Although the date of construction has not been provided for the existing rear addition (and it may be original to the house), it is not visible from the public right-of-way, due to sloping lot and the house’s setback from the street. An existing link between the historic house and existing rear addition will also be removed, with the adjacent materials (siding, porch ceiling, decking) being repaired with like materials.

The proposed window-to-door alterations will not be visible from the public right-of-way because of the sloping lot and the house’s setback from the street and therefore have no potential to detract from the streetscape. In accordance with the Guidelines, design review emphasis should be restricted to changes that will be visible from the front or side public right-of-way.

The submitted specifications indicate that the proposed new French and sliding doors will have permanently affixed 7/8” profile muntins with spacer bars, which is consistent with the HPC’s requirements for new multi-lite SDL doors.

**Storm Windows**

The applicant proposes to replace in-kind the exiting aluminum storm windows on the historic house. The proposed new storm windows are 1-over-1 with minimal meeting rails (1 3/16”) which will preserve the visibility of the original windows. Because the proposal is for an in-kind alteration and will result in No Material Effect, it is not subject to review by the HPC; however, staff notes that the Guidelines state that storm windows should be encouraged.

**Basement Door Replacement**

The applicant proposes to replace an existing rear metal basement door with a half-glass wooden door within the same opening. Due to the location of the basement door at the rear of the house, the proposed alteration will not be visible from the public right-of-way. In accordance with the Guidelines, design review emphasis should be restricted to changes that will be visible from the front or side public right-of-way.

After full and fair consideration of the applicant’s submission staff finds the proposal as being consistent with the Criteria for Issuance in Chapter 24A-(b) 1 and 2, having found the proposal is consistent with the Secretary of the Interior’s Standards for Rehabilitation outlined above.

**STAFF RECOMMENDATION**

Staff recommends that the Commission approve the HAWP application under the Criteria for Issuance in Chapter 24A-8(b), having found that the proposal is consistent with the Chevy Chase Village Historic District Guidelines identified above, and therefore will not substantially alter the exterior features of the historic resource and is compatible in character with the district and the purposes of Chapter 24A;

and with the Secretary of the Interior’s Standards for Rehabilitation;
and with the general condition that the applicant shall present the **3 permit sets of drawings, if applicable to Historic Preservation Commission (HPC) staff for review and stamping** prior to submission for the Montgomery County Department of Permitting Services (DPS) building permits;

and with the general condition that final project design details, not specifically delineated by the Commission, shall be approved by HPC staff or brought back to the Commission as a revised HAWP application at staff’s discretion;

and with the general condition that the applicant shall notify the Historic Preservation Staff if they propose to make **any alterations** to the approved plans. Once the work is completed the applicant will **contact the staff person** assigned to this application at 301-563-3400 or michael.kyne@montgomeryplanning.org to schedule a follow-up site visit.
HISTORIC PRESERVATION COMMISSION
301/563-3400
APPLICATION FOR
HISTORIC AREA WORK PERMIT

Contact Email: jheller@musearchitects.com
Contact Person: JENN HELLER
Daytime Phone No.: (301) 718-8118

Tax Account No.: 00456456

Name of Property Owner: JOSHUA BONNIE
Daytime Phone No.: (301) 718-8118

Address: 19 CHEVY CHASE GRAFTON STREET 20815
Street Number: City: State: Zip Code:

Contractor: TO BE DETERMINED
Contractor Registration No.: Phone No.:

Agent for Owner: MUSE ARCHITECTS
Daytime Phone No.: (301) 718-8118

LOCATION OF BUILDING/PREMISE
House Number: 19 STREET: GRAFTON STREET
Town/City: CHEVY CHASE Nearest Cross Street: CEDAR PARKWAY
Lot: 4 Block: 24 Subdivision: 009
Lot: Block: Subdivision:

PART ONE: TYPE OF PERMIT/ ACTION AND USE
1A. CHECK ALL APPLICABLE:
☐ Construct ☐ Extend ☐ Alter/ Renovate ☐ AC ☐ Slab ☐ Room Addition ☐ Porch ☐ Deck ☐ Shed
☐ Move ☐ Install ☐ Wreck/Raze ☐ Solar ☐ Fireplace ☐ Woodburning Stove ☐ Single Family
☐ Revision ☐ Repair ☐ Revocable ☐ ☐ Fence/Wall (complete Section 4) ☐ Other:
1B. Construction cost estimate: $ TO BE DETERMINED
1C. If this is a revision of a previously approved active permit, see Permit #:

PART TWO: COMPLETE FOR NEW CONSTRUCTION AND EXTENSIONS
2A. Type of sewage disposal: ☐ 01 WSSC ☐ 02 Septic ☐ 03 Other:
2B. Type of water supply: ☐ 01 WSSC ☐ 02 Well ☐ 03 Other:

PART THREE: COMPLETE ONLY FOR ENCLOSING WALL
3A. Height: feet inches

3B. Indicate whether the fence or retaining wall is to be constructed or one of the following locations:
☐ On party line/property line ☐ Entirely on land of owner ☐ On public right of way/ easement

I hereby certify that I have the authority to make the foregoing application, that the application is correct, and that the construction will comply with plans approved by all agencies listed. I hereby acknowledge and accept this to be a condition for the issuance of this permit.

[Signature] 1/17/18

Approved: For Chairperson, Historic Preservation Commission
Disapproved: Signature: Date:

Application/Permit No.: Date Filed: Date Issued:

SEE REVERSE SIDE FOR INSTRUCTIONS

825247
THE FOLLOWING ITEMS MUST BE COMPLETED AND THE REQUIRED DOCUMENTS MUST ACCOMPANY THIS APPLICATION.

1. WRITTEN DESCRIPTION OF PROJECT
   a. Description of existing structure(s) and environmental setting, including their historical features and significance:
      The existing structure is a single family dwelling constructed in 1908. The house consists of a 2-storey main block (historic) with a possibly historic rear kitchen addition, and a detached non-historic garage. The house is located within the Chevy Chase Village historic district.

   b. General description of project and its effect on the historic resource(s), the environmental setting, and, where applicable, the historic district:
      The project is to underpin and dig out the existing crawl space into a full height basement. Existing wood access doors to the crawlspace to be replaced with clad windows within ex. masonry openings, with a new window well at the rear of the property for egress. The existing kitchen to be renovated with new french and sliding doors to existing rear side porch.

2. SITE PLAN
   Site and environmental setting, drawn to scale. You may use your plat. Your site plan must include:
   a. the scale, north arrow, and date;
   b. dimensions of all existing and proposed structures; and
   c. site features such as walkways, driveways, fences, ponds, streams, trash dumpsters, mechanical equipment, and landscaping.

3. PLANS AND ELEVATIONS
   You must submit 2 copies or plans and elevations in a format no larger than 11" x 17". Plans on 8 1/2" x 11" paper are preferred.
   a. Schematic construction plans, with marked dimensions, indicating location, size and general type of walls, window and door openings, and other fixed features of both the existing resource(s) and the proposed work.
   b. Elevations (facades), with marked dimensions, clearly indicating proposed work in relation to existing construction and, when appropriate, contact. All materials and fixtures proposed for the exterior must be noted on the elevations drawings. An existing and a proposed elevation drawing of each facade affected by the proposed work is required.

4. MATERIALS SPECIFICATIONS
   General description of materials and manufactured items proposed for incorporation in the work of the project. This information may be included on your design drawings.

5. PHOTOGRAPHS
   a. Clearly labeled photographic prints of each facade of existing resource, including details of the affected portions. All labels should be placed on the front of photographs.
   b. Clearly label photographic prints of the resource as viewed from the public right-of-way and of the adjoining properties. All labels should be placed on the front of photographs.

6. TREE SURVEY
   If you are proposing construction adjacent to or within the dripline of any tree 6" or larger in diameter (at approximately 4 feet above the ground), you must file an accurate tree survey identifying the size, location, and species of each tree at least that diameter.

7. ADDRESSES OF ADJACENT AND CONFRONTING PROPERTY OWNERS
   For all projects, provide an accurate list of adjacent and confronting property owners (not tenants), including names, addresses, and zip codes. This list should include the owners of all lots or parcels which adjoin the parcel in question, as well as the owner(s) of lot(s) or parcel(s) which lie directly across the street/highway from the parcel in question.

PLEASE PRINT IN BLACK INK OR TYPE THIS INFORMATION ON THE FOLLOWING PAGE.
PLEASE STAY WITHIN THE GUIDES OF THE TEMPLATE, AS THIS WILL BE PHOTOCOPIED DIRECTLY ONTO MAILING LABELS.
<table>
<thead>
<tr>
<th>Owner's mailing address</th>
<th>Owner's Agent's mailing address</th>
</tr>
</thead>
<tbody>
<tr>
<td>JOSHUA BONNIE</td>
<td>MUSE ARCHITECTS</td>
</tr>
<tr>
<td>19 GRAFTON STREET</td>
<td>7401 WISCONSIN AVE</td>
</tr>
<tr>
<td>CHEVY CHASE, MD 20815</td>
<td>SUITE 500</td>
</tr>
<tr>
<td></td>
<td>BETHESDA, MD 20814</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Adjacent and confronting Property Owners mailing addresses</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELLEN MCKEE</td>
</tr>
<tr>
<td>21 GRAFTON STREET</td>
</tr>
<tr>
<td>CHEVY CHASE, MD 20815</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>JOSHUA HOROWITZ</td>
</tr>
<tr>
<td>30 GRAFTON STREET</td>
</tr>
<tr>
<td>CHEVY CHASE, MD 20815</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>JOANNA TAYLOR AND PETER HAMPTON</td>
</tr>
<tr>
<td>26 GRAFTON STREET</td>
</tr>
<tr>
<td>CHEVY CHASE, MD 20815</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>E. AND JOHN DUGAN</td>
</tr>
<tr>
<td>20 HESKETH STREET</td>
</tr>
<tr>
<td>CHEVY CHASE, MD 20815</td>
</tr>
</tbody>
</table>
### WINDOW SCHEDULE

<table>
<thead>
<tr>
<th>Track</th>
<th>Description</th>
<th>Size</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Interior Window Openings Canted</td>
<td>3'-8&quot; x 6'-6&quot;</td>
<td>Custom cut and adjusted. Top of window at 7'-0&quot;, bottom horizontal to floor.</td>
</tr>
<tr>
<td>B</td>
<td>Interior Window Openings Canted</td>
<td>3'-8&quot; x 6'-6&quot;</td>
<td>Custom cut and adjusted. Top of window at 7'-0&quot;, bottom horizontal to floor.</td>
</tr>
</tbody>
</table>

### DOOR SCHEDULE

<table>
<thead>
<tr>
<th>Track</th>
<th>Description</th>
<th>Size</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### LIGHTING SCHEDULE

<table>
<thead>
<tr>
<th>Track</th>
<th>Description</th>
<th>Color/Finish</th>
<th>Large</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>31</td>
<td>Interior Light, mullioned</td>
<td>F.0.0</td>
<td>F.0.0</td>
<td>Owner selects. Consists of 3-6&quot; jamb stiles with mullions, including 3-6&quot; jamb stock.</td>
</tr>
<tr>
<td>32</td>
<td>Interior Light, cased, flush</td>
<td>F.0.0</td>
<td>F.0.0</td>
<td>Owner selects. Consists of 3-6&quot; jamb stiles with mullions, including 3-6&quot; jamb stock.</td>
</tr>
<tr>
<td>33</td>
<td>Interior Light, cased, flush</td>
<td>F.0.0</td>
<td>F.0.0</td>
<td>Owner selects. Consists of 3-6&quot; jamb stiles with mullions, including 3-6&quot; jamb stock.</td>
</tr>
<tr>
<td>34</td>
<td>Interior Light, cased, flush</td>
<td>F.0.0</td>
<td>F.0.0</td>
<td>Owner selects. Consists of 3-6&quot; jamb stiles with mullions, including 3-6&quot; jamb stock.</td>
</tr>
<tr>
<td>35</td>
<td>Interior Light, cased, flush</td>
<td>F.0.0</td>
<td>F.0.0</td>
<td>Owner selects. Consists of 3-6&quot; jamb stiles with mullions, including 3-6&quot; jamb stock.</td>
</tr>
</tbody>
</table>

### FINISH SCHEDULE

<table>
<thead>
<tr>
<th>Track</th>
<th>Description</th>
<th>Color/Finish</th>
<th>Material/Vendor</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>36</td>
<td>Exterior Door, panel</td>
<td>F.0.0</td>
<td>F.0.0</td>
<td>Owner selects. Consists of 3-6&quot; jamb stock with mullions, including 3-6&quot; jamb stock.</td>
</tr>
</tbody>
</table>

### FOOTNOTES

1. Door sashes and hardware, rubbers, parts, finish, screws, or other devices to be determined by architect and owner.
2. Framing members, doors, and sash are to be determined by architect and owner.
3. Interior doors and hardware are to be determined by architect and owner.
4. Exterior doors and hardware are to be determined by architect and owner.
5. Interior doors and hardware are to be determined by architect and owner.
6. Exterior doors and hardware are to be determined by architect and owner.
7. Interior doors and hardware are to be determined by architect and owner.
8. Exterior doors and hardware are to be determined by architect and owner.
9. Exterior doors and hardware are to be determined by architect and owner.
10. Interior doors and hardware are to be determined by architect and owner.
11. Exterior doors and hardware are to be determined by architect and owner.
12. Interior doors and hardware are to be determined by architect and owner.
13. Exterior doors and hardware are to be determined by architect and owner.
14. Interior doors and hardware are to be determined by architect and owner.
15. Exterior doors and hardware are to be determined by architect and owner.
16. Interior doors and hardware are to be determined by architect and owner.
17. Exterior doors and hardware are to be determined by architect and owner.
37918 — THERMAL SASH (SDL)

SERIES: Exterior French & Sash Doors
TYPE: Exterior French & Sash
APPLICATIONS: Can be used for a swing door, with barn track hardware, with pivot hardware, in a patio swing door or slider system and many other applications for the home's exterior.

Construction Type:
Engineered All-Wood Stiles and Rails with Dowel Pinned Stile/Rail Joinery

Panels: 1-7/16" Innerbond® Double Hip-Raised Panel
Glass: 3/4" Insulated Glazing

STANDARD FEATURES

- Any Wood Species
- Virtually Any Size
- Glass Options
- Privacy Rating: 1

DETAILS

(Standard)
Hi Michael,

Yesterday after I filed for our HAWP for our project on Grafton Street, we heard from the client that he would like to add replacing all his storm windows to the scope of work.

I am attaching the spec document for the storm windows we would like to use, the Burch WST 100. We would be replacing the storm window on every existing window. Our permit # is 825247 – please let me know if there’s any issue adding this to our the scope of our application.

Regards,
Jenn

Jenn Heller

M U S E A R C H I T E C T S

7401 Wisconsin Ave, Suite 500
Bethesda, MD 20814
T. 301.718.8118
F. 301.718.81112

WWW.MUSEARCHITECTS.COM
THE BURCH COMPANY

Burch Energy Miser
WST-100: GENERAL SPECIFICATIONS
OVERVIEW:

Burch Model WST-100 Storm Windows are an aluminum combination, self-storing, type storm window. The windows have a main frame with triple slides or runways for the independent sliding of two (2) non-tilting glass inserts and one (1) screen insert. The storm windows are provided with all necessary hardware, glass and miscellaneous equipment required for a complete installation. The windows have been independently certified as meeting the requirements of AAMA/ANSI 1002.10-93 and as allowing 0.44 CFM of air infiltration per linear foot of window measured at 1.56 psf of air pressure.

Drawings of the Model WST-100 appear below.

MATERIALS AND CONSTRUCTION:

(A) Alloys: All extrusions used in the manufacture of the storm windows are 6063 alloy aluminum, treated and tempered to T-5 or T-6 conditioning. All are free from defects impairing strength and durability. Each aluminum extrusion has a guaranteed minimum ultimate tensile strength of 22,000 psi and a yield strength of 16,000 psi. A list of extruded parts and their material appears below.

(B) Construction: All joints of the window master frame and glass sashes are of butted construction and joined with stainless steel screws.

(C) The Main Frame: The main frame has three (3) runways for the independent sliding of two (2) glass sash inserts and one (1) screen insert. The screen operates in the inside runway. The two (2) glass sash inserts slide within full length channel sides which overlap the glass insert frame on both inside and outside to provide maximum weather seal and to prevent outside wind pressure from deflecting the glass sash. There is anti-galling zinc lining between the sliding glass and screen inserts and the main frame to eliminate seizing, galling or scoring. The sill of the main frame is designed to permit water to drain to the outside. The main frame is provided with a full expander frame on both sides, the top and bottom, to allow an installation flush with the building frame and to provide for out of square window openings and future building settlement.

(D) Sash Inserts: When closed, the top and bottom glass inserts interlock. Removable and replaceable stainless steel compressions springs are attached to each sash glass insert and screen insert to eliminate glass rattling and permit the sash to be removed. The glass in each glass sash is cushioned in the sash frame with a vinyl glazing channel that can be easily removed and replaced without damage to the sash frame. Each bottom glass sash insert is fabricated with an operating ventilator.

(E) Glazing: Standard glazing of the WST-100 storm windows is single-strength clear float glass that is 2.5 mm thick. Double strength-glass (3 mm thick), Low-E glass, Lexan and Tempered glass are also available.

(F) Screens: The top rail of the screen insert of the WST-100 Storm Window interlocks with the bottom rail of the lower sash when the lower sash is in the uppermost position. A locking mechanism is attached on the screen lift rail. The screen cloth is 18 x 16 mesh, secured in its frame with round vinyl spline material. Aluminum or fiberglass mesh is available.
(G) Contact Surfaces: There is no aluminum to aluminum contact between hardware parts or window members that are required to move relative to one another while remaining in close contact.

HARDWARE AND ACCESSORIES

(H) Fasteners: All screws and other miscellaneous fastening devices incorporated in the windows are stainless steel.

(I) Hardware: All hardware for the windows is cast zinc or stainless steel. Each glass sash is equipped with mechanisms which will hold the sash stationary in an open position. Each sash is equipped with a lifting device for handling ease.

(J) Weatherstripping: Each sash channel is lined with zinc weatherstripping. There is wool pile weatherstripping along the top and bottom of the master frame and at the meeting rail of the two glass inserts.

FINISH

(K) Standard Finish: The surfaces of all aluminum members are pre-treated to assure a proper bond and have an electrostatically applied baked-on white enamel finish applied at the aluminum extruding factory. The finish meets or exceeds AAMA 2603.
INTERIOR ISOMETRIC ELEVATIONS
Burch Energy Miser Window WST-100 Extruded Aluminum Parts
Part Number, Description and Alloy

WST-1A Master Frame Sill  6063 T-5
WST-2 Master Frame Jamb, Left Side  6063 T-5
WST-3 Master Frame Jamb, Right Side  6063 T-5
WST-4 Master Frame Head  6063 T-5
WST-5A Glass Sash Lift Rail  6063 T-6
WST-306 Glass Sash Side Rail  6063 T-5
WST-6 Glass Sash Meeting Rail, Bottom Sash  6063 T-6
WST-7 Glass Sash Meeting Rail, Top Sash  6063 T-6
WST-308 Glass Sash Top Rail  6063 T-6
WST-9 Screen Sash Meeting Rail  6063 T-6
WST-312 Screen Sash Rail  6063 T-6
WST-10A Sill Extension  6063 T-5
WST-11W Side Extension  6063 T-5
WST-25A Head Extension  6063 T-5