### GENERAL NOTES:

1. This product has been tested, analyzed, and approved for design pressures not to exceed those shown in the "Allowable design pressure table". 
2. Openings, blocking, blocking fasteners must be properly designed and installed to transfer wind loads to the structure. 
3. All hardware & fasteners shall be in accordance with these drawings & shall not vary unless specifically mentioned on the drawings. Specific anchor embedded to site material, shall be beyond wall finish or study. 
4. The details & specifications shown herein represent the products & fasteners proposed for use. 
5. These specifications are based on ASCE 7-10 and are intended for use by practicing engineers. 

### ALLLOWABLE D.O. SIZE TABLE

<table>
<thead>
<tr>
<th>Maximum D.O. Height (N)</th>
<th>Maximum D.O. Width (N)</th>
<th>Allowable Pressure (PSF)</th>
</tr>
</thead>
<tbody>
<tr>
<td>62 3/4</td>
<td>35.6</td>
<td>36.5</td>
</tr>
<tr>
<td>56 3/4</td>
<td>36.2</td>
<td>40.4</td>
</tr>
<tr>
<td>50 3/4</td>
<td>35.8</td>
<td>45.2</td>
</tr>
<tr>
<td>44 3/4</td>
<td>35.4</td>
<td>51.2</td>
</tr>
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<td>38 3/4</td>
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<td>32 3/4</td>
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<tr>
<td>26 3/4</td>
<td>34.2</td>
<td>82.0</td>
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### MULLION PRESSURE TABLE (VERTICAL INTERMEDIATE MULLION)

<table>
<thead>
<tr>
<th>Maximum Frame Height Dimension (N)</th>
<th>Maximum Load Width Dimension (N)</th>
<th>Allowable Pressure (PSF)</th>
</tr>
</thead>
<tbody>
<tr>
<td>6 3/4</td>
<td>6 3/4</td>
<td>6 3/4</td>
</tr>
<tr>
<td>121 1/4</td>
<td>121 1/4</td>
<td>121 1/4</td>
</tr>
<tr>
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### MULLION PRESSURE TABLE (5" SIDE JAMB)

<table>
<thead>
<tr>
<th>Maximum Frame Height Dimension (N)</th>
<th>Maximum Load Width Dimension (N)</th>
<th>Allowable Pressure (PSF)</th>
</tr>
</thead>
<tbody>
<tr>
<td>6 3/4</td>
<td>6 3/4</td>
<td>6 3/4</td>
</tr>
<tr>
<td>121 1/4</td>
<td>121 1/4</td>
<td>121 1/4</td>
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<tr>
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### MULLION PRESSURE TABLE (2 3/4" SIDE JAMB)

<table>
<thead>
<tr>
<th>Maximum Frame Height Dimension (N)</th>
<th>Maximum Load Width Dimension (N)</th>
<th>Allowable Pressure (PSF)</th>
</tr>
</thead>
<tbody>
<tr>
<td>6 3/4</td>
<td>6 3/4</td>
<td>6 3/4</td>
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<tr>
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<td>5</td>
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</tr>
<tr>
<td>3</td>
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<td>3</td>
</tr>
<tr>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
</tbody>
</table>

### CORNER CONSTRUCTION:

Frame corners & vertical intermediate mullions. horizontal mullions are square cut, butted to the vertical mullions, fastened with 3 1/4 x 4 s.d. no. 12 x 1 1/4" phillips fasteners through the vertical mullions into the horizontal intermediate mullions with silicone. 

### FRAME ANCHOR REQUIREMENTS TABLE:

<table>
<thead>
<tr>
<th>Opening Type (Substrate)</th>
<th>Minimum Embed</th>
<th>Minimum Edge Dist.</th>
</tr>
</thead>
<tbody>
<tr>
<td>MIN. 2&quot; X Wood Frame or Suck (MIN. S#. &amp; G#)</td>
<td>1 1/4&quot; Concrete Screw</td>
<td>MIN. 3/8&quot;</td>
</tr>
<tr>
<td>MIN. 5/8&quot; X Metal Stud</td>
<td>1/4&quot; Self TAP/DRILL Screw</td>
<td>1/4&quot;</td>
</tr>
<tr>
<td>MIN. 1/2&quot; X Steel</td>
<td>1/4&quot; Self TAP/DRILL Screw</td>
<td>1/2&quot;</td>
</tr>
<tr>
<td>MIN. 10/16&quot; X Sheet Metal</td>
<td>1/4&quot; Self TAP/DRILL Screw</td>
<td>1/4&quot;</td>
</tr>
<tr>
<td>1/4&quot; Concrete, Filled CMU</td>
<td>1/4&quot; Concrete Screw</td>
<td>2 1/2&quot;</td>
</tr>
<tr>
<td>3000 PSI Concrete</td>
<td>1/4&quot; Concrete Screw</td>
<td>2 1/2&quot;</td>
</tr>
</tbody>
</table>

(1) Frame screw mount requires min. 2x4; strap anchor mount requires min. 2x6. 
(2) When substrate is wood & frame screws are required at sides of opening, the shim space at the sides shall not be greater than 1/4" unless the screws are grade 5 (may be up to 3/8" with grade 5 screws). 

### FRAME & STRAP ANCHOR SCREWS:

(3) CMU is applicable at sides only & must be concrete filled when side jamb anchors are required. 
(4) Concrete screws shall be ELCO ULTRACONS (c.s.), ELCO ORETE-FLEX (S.S.), IWC RAMSET/RED HEAD TAPONS (C.S. or S.S.) or ELCO Kwik-CON (C.S. or S.S.).

---

<sup>1</sup> These standards are applicable only to the product specified. They may not be used for products not produced by the manufacturer whose drawings on these plans.

---

<sup>2</sup> These standards are applicable only to the product specified. They may not be used for products not produced by the manufacturer whose drawings on these plans.
EXTERIOR ELEVATION:
STORE FRONT ASSEMBLY WITH PROJECT-OUT WINDOWS

SCALE: 1/2" = 1'-0"

(FOR STORE FRONT DETAIL & INSTALLATION NOT SHOWN, SEE ELEVATION ON SHEET 2)

ALLOWABLE DESIGN PRESSURE
(STORE FRONT ASSEMBLY WITH PROJECT-OUT WINDOWS)

PRESSURE IS CONTROLLED BY VERTICAL FRAMING MEMBERS/MULLIONS & THEIR END ANCHOR QUANTITIES.
SEE MULLION PRESSURE TABLES ON SHEET 1 FOR ALLOWABLE MULLION PRESSURE CONDITIONS.

STORE FRONT ASSEMBLY WITH PROJECT-OUT WINDOW NOTES:

1. PROJECT-OUT WINDOWS MAY BE PLACED ANYWHERE WITHIN THE STORE FRONT FRAMING.
2. THERE IS NO LIMIT ON THE NUMBER OF PROJECT-OUT WINDOWS THAT MAY BE PLACED IN ANY ONE BAY OF THE STORE FRONT SYSTEM. NOTE: IT IS RECOMMENDED TO USE AN EXPANSION MULLION EVERY 20 FT. MAXIMUM ACROSS ALL OPENINGS OVER 20 FT. WIDE.
3. WHEN PROJECT-OUT WINDOWS EXIST, OVERALL FRAME HEIGHT SHALL BE LIMITED AS SHOWN. POTENTIAL INCREASED HEIGHTS SHALL BE REVIEWED & APPROVED BASED ON SEPARATE CERTIFICATION FOR ONE-TIME JOB APPROVAL IF NECESSARY.
### Corner Mullion Pressure Table (135 Deg. Corner)

<table>
<thead>
<tr>
<th>Frame Height Dimension (in.)</th>
<th>Max Load Width 'A' or 'B' (in.)</th>
<th>Allowable Pressure (PSF)</th>
</tr>
</thead>
<tbody>
<tr>
<td>121 1/4</td>
<td>33.5</td>
<td>38.7</td>
</tr>
<tr>
<td></td>
<td>30.5</td>
<td>42.5</td>
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<tr>
<td></td>
<td>27.5</td>
<td>47.1</td>
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<td>24.5</td>
<td>52.9</td>
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<tr>
<td></td>
<td>21.5</td>
<td>60.2</td>
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<tr>
<td></td>
<td>18.5</td>
<td>70.0</td>
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<td></td>
<td>15.5</td>
<td>74.5</td>
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<tr>
<td></td>
<td>12.5</td>
<td>79.0</td>
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<tr>
<td></td>
<td>10.0</td>
<td>75.0</td>
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<tr>
<td></td>
<td>9.0</td>
<td>70.0</td>
</tr>
</tbody>
</table>

Note: Load width dimension to be considered for use with this load table shall be the greater value of 'A' & 'B'.

### Corner Mullion Pressure Table (90 Deg. Corner)

<table>
<thead>
<tr>
<th>Frame Height Dimension (in.)</th>
<th>Max Load Width 'A' or 'B' (in.)</th>
<th>Allowable Pressure (PSF)</th>
</tr>
</thead>
<tbody>
<tr>
<td>121 1/4</td>
<td>29.0</td>
<td>40.0</td>
</tr>
<tr>
<td></td>
<td>26.0</td>
<td>43.8</td>
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<td></td>
<td>23.0</td>
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<td>20.0</td>
<td>53.9</td>
</tr>
<tr>
<td></td>
<td>17.0</td>
<td>59.5</td>
</tr>
<tr>
<td></td>
<td>14.0</td>
<td>66.3</td>
</tr>
<tr>
<td></td>
<td>11.0</td>
<td>70.0</td>
</tr>
</tbody>
</table>

Note: Load width dimension to be considered for use with this load table shall be the greater value of 'A' & 'B'.

---

### Exterior Elevation:

**Multiple Fixed Panel Store Front Assembly with 90° and/or 135° Corners**

Scale: 1/2" = 1'-0"

(For all detail installation & Mullion load tables not shown, see load tables & elevations on sheets 1, 2 & 3.

(While shown with both 90° and 135° corners, one or both may apply on any job)

(Project-out windows also apply to this elevation)

---

**Design by:**

*Schaffer Engineering & Design, P.A.*

*License No. 15450*

*Sheet No.: 17587*

*FEB. 1, 2021*

*Consulting Engineers*

*Building Conformity Consulting*

*Consulting Engineers*

*Building Conformity Consulting*

---
TYPICAL STORE FRONT GLAZING DETAIL

CLASS OPTIONS:

OPTION 1: 1 5/16" THICK IG GLASS (1/4" HT. ST. OR TEMP. EXTERIOR; 1/2"
SPACER/1/4" HT. ST./0.09 KURARAY BUTACITE PVB/1/4" HT. ST. INTERIOR)
OPTION 2: 1 5/16" THICK IG GLASS (1/4" HT. ST. OR TEMP. EXTERIOR; 1/2"
SPACER/1/4" HT. ST./0.09 EASTMAN CHEM. CO. SAFLEX/1/4" HT. ST. INTERIOR)

NOTE: THE SINGLE Pane OF THE IG GLASS SHALL BE TEMPERED
WHEN REQUIRED TO CONFORM WITH THE IBC FOR USE OF GLASS IN
HAZARDOUS LOCATIONS OR WHEN INSTALLED OVER 30 FT. ABOVE
GRADE (APPLICABLE FOR CLASS OPTIONS 1 & 2).
WHEN 2 SCREWS PER ANCHOR ARE REQUIRED, ANY OF THE 3 HOLES MAY BE USED AS REQUIRED BY SCREW SPACING REQUIREMENTS IN THE ELEVATIONS.

STORE FRONT PARTS

FRAME SCREW FILLER
LENGTH = 6" TO 12"

OPTIONAL

GLAZING BEAD/FRAME FILLER

INTERIOR MULLION INSERT

EXTERIOR MULLION INSERT

FRAME FILLER

GLAZING GASKET

SPACER GASKET

SETTING BLOCK
LENGTH = 4.125

W. BLOCK
LENGTH = 0.770

15° CORNER MULLION

DEEP POCKET MULLION INSERT

2 PIECE MULLION

2 PIECE MULLION FILLER
<table>
<thead>
<tr>
<th>ITEM #</th>
<th>ITEM DESCRIPTION</th>
<th>MANUFACTURER/NOTES</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>HEAD FRAME (OPTION 1)</td>
<td>6063-T6 ALUMINUM</td>
</tr>
<tr>
<td>2</td>
<td>HEAD FRAME (OPTION 2)</td>
<td>6063-T6 ALUMINUM</td>
</tr>
<tr>
<td>3</td>
<td>SILL FRAME</td>
<td>6063-T6 ALUMINUM</td>
</tr>
<tr>
<td>4</td>
<td>JAMB FRAME (OPTION 1)</td>
<td>6063-T6 ALUMINUM</td>
</tr>
<tr>
<td>5</td>
<td>JAMB FRAME (OPTION 2) &amp; 90° CORNER MULLION (PART 1 OF 2)</td>
<td>6063-T6 ALUMINUM</td>
</tr>
<tr>
<td>6</td>
<td>JAMB FRAME (OPTION 2) &amp; 90° CORNER MULLION (PART 2 OF 2)</td>
<td>6063-T6 ALUMINUM</td>
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<tr>
<td>7</td>
<td>MID-RAIL</td>
<td>6063-T6 ALUMINUM</td>
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<tr>
<td>8</td>
<td>STANDARD MULLION (OPTION 1)</td>
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</tr>
<tr>
<td>9</td>
<td>FEMALE EXPANSION MULLION (OPTION 2)</td>
<td>6063-T6 ALUMINUM</td>
</tr>
<tr>
<td>10</td>
<td>MALE EXPANSION MULLION (OPTION 2)</td>
<td>6063-T6 ALUMINUM</td>
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<tr>
<td>11</td>
<td>FRAME SCREW FILLER</td>
<td>6063-T6 ALUMINUM</td>
</tr>
<tr>
<td>12</td>
<td>STRAP ANCHOR</td>
<td>6063-T6 ALUMINUM</td>
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<td>13</td>
<td>SUB-SILL</td>
<td>6063-T6 ALUMINUM</td>
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<tr>
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<td>GLAZING BEAD/FRAME FILLER</td>
<td>6063-T6 ALUMINUM</td>
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<tr>
<td>15</td>
<td>INTERIOR MULLION INSERT</td>
<td>6063-T6 ALUMINUM</td>
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<td>17</td>
<td>POCKET FILLER</td>
<td>ABS PLASTIC</td>
</tr>
<tr>
<td>18</td>
<td>SILL END DAM PLATE (3.281&quot;x3.5&quot;x0.062&quot; THICK)</td>
<td>PLASTIC</td>
</tr>
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<td>19</td>
<td>135° CORNER MULLION</td>
<td>6063-T6 ALUMINUM</td>
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<td>20</td>
<td>DEEP POCKET MULLION INSERT</td>
<td>6063-T6 ALUMINUM</td>
</tr>
<tr>
<td>21A</td>
<td>2 PIECE MULLION (KAWNEER #575-523)</td>
<td>6063-T6 ALUMINUM</td>
</tr>
<tr>
<td>21B</td>
<td>2 PIECE MULLION FILLER (KAWNEER #575-524)</td>
<td>6063-T6 ALUMINUM</td>
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**PROJECT-OUT GLASS VENT PARTS**

<table>
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<th>ITEM DESCRIPTION</th>
<th>MANUFACTURER/NOTES</th>
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<tbody>
<tr>
<td>22</td>
<td>FRAME</td>
<td>6063-T6 ALUMINUM</td>
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<tr>
<td>23</td>
<td>STILE &amp; RAIL</td>
<td>6063-T6 ALUMINUM</td>
</tr>
<tr>
<td>24</td>
<td>FRAME CORNER KEY</td>
<td>6063-T6 ALUMINUM</td>
</tr>
<tr>
<td>25</td>
<td>SASH CORNER KEY</td>
<td>6063-T6 ALUMINUM</td>
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**PROJECT-OUT VENT HARDWARE**

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<th>MANUFACTURER/NOTES</th>
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<tbody>
<tr>
<td>29</td>
<td>4&quot; BAR HINGE</td>
<td>ADVANTAGE 316-AT</td>
</tr>
<tr>
<td>30</td>
<td>SNIPPER DRIVER &amp; VENT DEFLECTION STOP</td>
<td>HENCO PLASTICS; NYLON WITH GLASS FILL</td>
</tr>
<tr>
<td>31</td>
<td>CAM LOCK &amp; LOCK STRIKE</td>
<td>BRONZE CRAFT US-25-D; WHITE BRONZE</td>
</tr>
</tbody>
</table>

**STORE FRONT SEALS & SEALANTS**

<table>
<thead>
<tr>
<th>ITEM #</th>
<th>ITEM DESCRIPTION</th>
<th>MANUFACTURER/NOTES</th>
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</thead>
<tbody>
<tr>
<td>35</td>
<td>GLAZING GASKET</td>
<td>70 +/-5 DUROMETER EPM (KAWNEER PART #:027-074)</td>
</tr>
<tr>
<td>36</td>
<td>SPACER GASKET</td>
<td>POLYPROPYLENE &amp; SANDOPRENE; KRP 60 +/-5 DUROMETER</td>
</tr>
<tr>
<td>37</td>
<td>MATING GASKET</td>
<td>POLYPROPYLENE</td>
</tr>
<tr>
<td>38</td>
<td>FIXED GASKET</td>
<td>KRP POLYPROPYLENE &amp; TPV</td>
</tr>
<tr>
<td>39</td>
<td>SETTING BLOCK</td>
<td>EPM (DUROMETER = 85 +/-5)</td>
</tr>
<tr>
<td>40</td>
<td>OPTIONAL POURRED IN DEBRIDGING/ THERMAL BREAK</td>
<td>STRUCTURAL THERMAL BARRIER POLYMER</td>
</tr>
<tr>
<td>41</td>
<td>W BLOCK</td>
<td>EPM (DUROMETER = 85 +/-5)</td>
</tr>
<tr>
<td>42</td>
<td>1/2&quot; IG SPACER</td>
<td>3005 OR 3105 ALUMINUM</td>
</tr>
</tbody>
</table>

**PROJECT-OUT GLASS VENT SEALS & SEALANTS**

<table>
<thead>
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<th>ITEM DESCRIPTION</th>
<th>MANUFACTURER/NOTES</th>
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<tbody>
<tr>
<td>44</td>
<td>GLAZING TAPE</td>
<td>POLYURETHANE FDAM</td>
</tr>
<tr>
<td>45</td>
<td>BULB GASKET</td>
<td>AMESBURY #32005 POLYPROPYLENE</td>
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<td>KERP GASKET</td>
<td>ASTRO PLASTICS 4C-9131 POLYPROPYLENE &amp; SANDOPRENE</td>
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<td>47</td>
<td>SETTING BLOCK</td>
<td>EPM (DUROMETER = 85 +/-5)</td>
</tr>
<tr>
<td>48</td>
<td>3/8&quot; IG SPACER</td>
<td>3005 OR 3105 ALUMINUM</td>
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</table>

**STORE FRONT FASTENERS**

<table>
<thead>
<tr>
<th>ITEM #</th>
<th>ITEM DESCRIPTION</th>
<th>MANUFACTURER/NOTES</th>
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<tbody>
<tr>
<td>50</td>
<td>1/4-20 X 7/16&quot; PHTC</td>
<td>QTY = 3 EACH SIDE OF EACH VERTICAL FRAMING MEMBER</td>
</tr>
<tr>
<td>51</td>
<td>1/4-20 X 1&quot; PHTC TYPE &quot;D&quot; OR &quot;F&quot;</td>
<td>QUANTITY TO MATCH THAT OF STRAP ANCHOR INSTALLATION SCREWS (SPACED 2.5&quot; O.C.)</td>
</tr>
<tr>
<td>52</td>
<td>1/4-20 X 5/8&quot; FHTC TYPE &quot;D&quot;</td>
<td>WITHIN 6&quot; FROM MULL ENDS &amp; 18&quot; MAX. O.C.</td>
</tr>
</tbody>
</table>

**PROJECT-OUT VENT FASTENERS**

<table>
<thead>
<tr>
<th>ITEM #</th>
<th>ITEM DESCRIPTION</th>
<th>MANUFACTURER/NOTES</th>
</tr>
</thead>
<tbody>
<tr>
<td>55</td>
<td>NO. 10 x 1&quot; PHF &quot;AD&quot;</td>
<td>WITHIN 6&quot; FROM EA. END &amp; 18&quot; MAX. O.C.</td>
</tr>
<tr>
<td>56</td>
<td>NO. 10 x 1/2&quot; FHT &quot;B&quot;</td>
<td>2 PER EACH CAM LOCK &amp; KEEPER</td>
</tr>
<tr>
<td>57</td>
<td>NO. 10-16 X 5/16&quot; CRIMPITE TYPE &quot;B&quot;</td>
<td>2 PER EACH SNIPPER DRIVER &amp; KEEPER</td>
</tr>
<tr>
<td>58</td>
<td>NO. 10-16 X 7/16&quot; PHF TYPE &quot;B&quot;</td>
<td>3 PER HINGE BAR</td>
</tr>
<tr>
<td>59</td>
<td>NO. 12 X 1&quot; PHF &quot;AB&quot;</td>
<td>4 PER END DAM</td>
</tr>
</tbody>
</table>

**PROJECT-OUT WINDOW PARTS**

![Diagram of window parts]