

2000 SERIES  
BRONZE FIXED WINDOWS

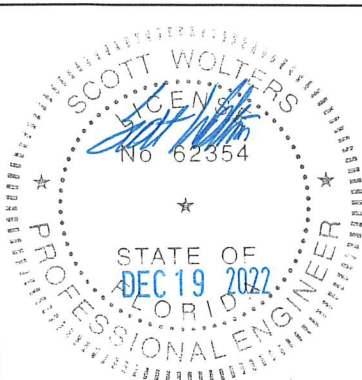
GENERAL NOTES:

- 1. THIS PRODUCT HAS BEEN TESTED PER TAS 201, 202, & 203. IT MEETS ALL OF THE REQUIREMENTS OF THE CURRENT EDITION OF THE FLORIDA BUILDING CODE, INCLUDING THE HVHZ PROVISIONS.
- 2. THIS PRODUCT IS LARGE AND SMALL MISSILE IMPACT RESISTANT, SHUTTERS ARE NOT REQUIRED IN WINDBORNE DEBRIS REGIONS.
- 3. MAX. ALLOWABLE DESIGN PRESSURES: +/- 70 PSF.
- 4. OPENING SUBSTRATES, WOOD BUCKS (OPTIONAL), AND WOOD BUCK FASTENERS ARE BY OTHERS AND MUST BE DESIGNED AND INSTALLED PER FBC REQUIREMENTS TO SAFELY TRANSFER THE LOADS FROM THIS SYSTEM TO THE BUILDING STRUCTURE. SUBSTRATES SHALL MEET THE MINIMUM STRENGTH REQUIREMENTS LISTED IN THE ANCHOR DETAILS ON SHEET 4.
- 5. ANCHOR TYPE, SIZE, SPACING, AND EMBEDMENT SHALL BE AS LISTED IN THE ANCHOR DETAILS ON SHEET 4. ANCHOR EMBEDMENT IN SUBSTRATE SHALL BE BEYOND WALL DRESSING OR STUCCO.
- 6. ALL FASTENERS PENETRATING INTO PRESSURE TREATED WOOD SHALL BE CAPABLE OF PREVENTING CORROSION DUE TO REACTION WITH PRESSURE TREATMENT CHEMICALS.
- 7. THE 4/3 INCREASE IN ALLOWABLE STRESS FOR SHORT-TERM LOADING HAS NOT BEEN USED IN THE DESIGN OF THIS SYSTEM. THE 1.6 Cd FACTOR HAS BEEN USED IN THE ANALYSIS OF WOOD SCREWS ONLY.
- 8. DISSIMILAR MATERIALS THAT COME INTO CONTACT SHALL BE PROTECTED TO PREVENT GALVANIC REACTIONS IN ACCORDANCE WITH FBC CHAPTERS 20 AND 23.

SYSTEM NOTES:

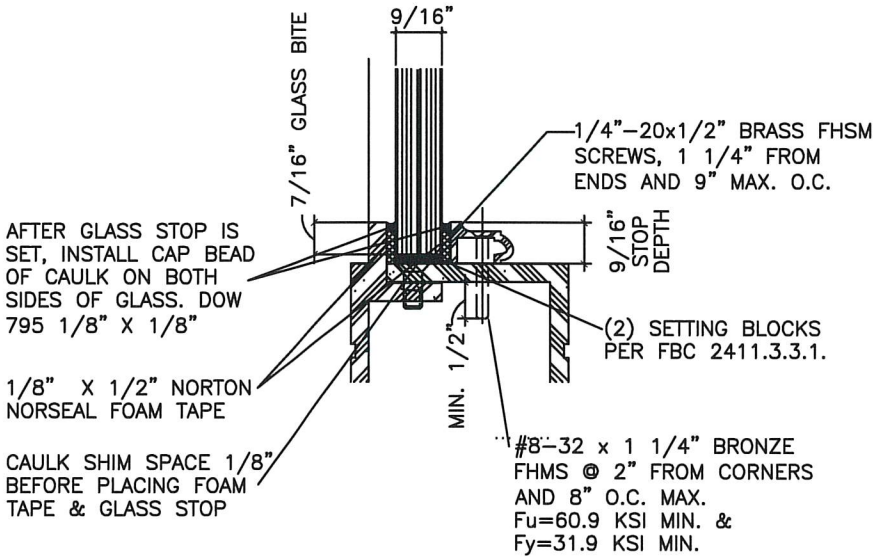
- 9. APPROVED CONFIGURATIONS: "O", "O-O", OR AS CONTINUOUS WINDOW WALL, AS SHOWN IN THE SKETCHES ON THIS SHEET.
- 10. ALL BRONZE EXTRUSIONS SHALL BE BRONZE 380 OR 385 ALLOY, UNLESS OTHERWISE NOTED.
- 11. APPROVED GLASS TYPES AND GLAZING DETAILS ARE SHOWN IN THE CHART BELOW.

| DRAWING INDEX |                                        |
|---------------|----------------------------------------|
| SHT. NO.      | DESCRIPTION                            |
| 1             | NOTES & GLAZING DETAIL                 |
| 2 & 3         | WINDOW ELEVATIONS                      |
| 4-6           | SECTION DETAILS                        |
| 6             | ANCHOR CHART                           |
| 7             | BILL OF MATERIALS & EXTRUSION PROFILES |
|               |                                        |
|               |                                        |
|               |                                        |

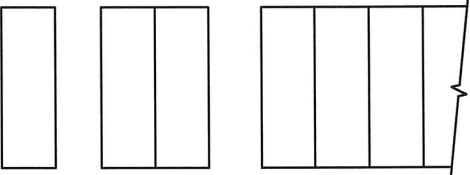


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WOLTERS ENGINEERING, INC.  
(COA# 27194)  
15211 97TH ROAD N  
WEST PALM BEACH, FL 33412

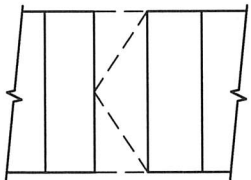
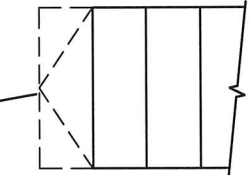
TYPICAL GLAZING DETAIL



APPROVED CONFIGURATIONS



SEE SEPARATE APPROVAL FOR HACI OUTSWING CASEMENT WINDOWS OR DOORS



| GLASS TYPE              | GLASS THICKNESS | LAYERS                                                                                                                                                                 | MAX SIZE (DLO)     | PRESSURE    |
|-------------------------|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-------------|
| SAF-GLAS (GLASS TYPE A) | 9/16"           | 1. 3/16" HEAT STRENGTHENED GLASS<br>2. 0.025" URETHANE ADHESIVE<br>3. 0.125" SAF-GLAS POLYCARBONATE<br>4. 0.025" URETHANE ADHESIVE<br>5. 3/16" HEAT STRENGTHENED GLASS | 42 3/4" x 112"     | +70/-70 PSF |
| SAF-GLAS (GLASS TYPE B) | 9/16"           | 1. 1/4" HEAT STRENGTHENED GLASS<br>2. 0.015" URETHANE ADHESIVE<br>3. 0.070" SAF-GLAS POLYCARBONATE<br>4. 0.015" URETHANE ADHESIVE<br>5. 1/4" HEAT STRENGTHENED GLASS   | 48 1/4" x 104 1/4" | +70/-70 PSF |

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HISTORICAL ARTS & CASTING, INC.  
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12/12/22

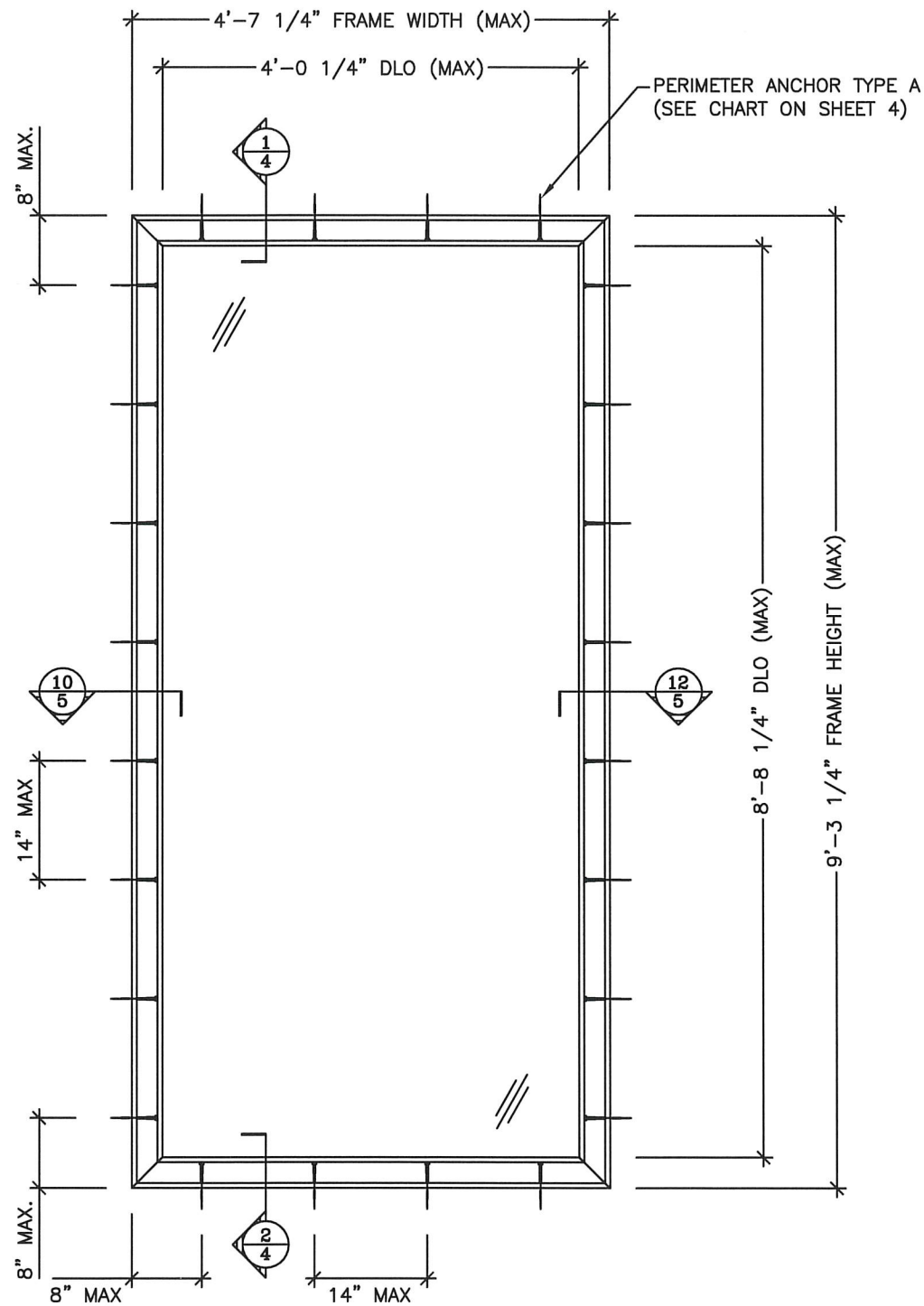
RKH

NOTES

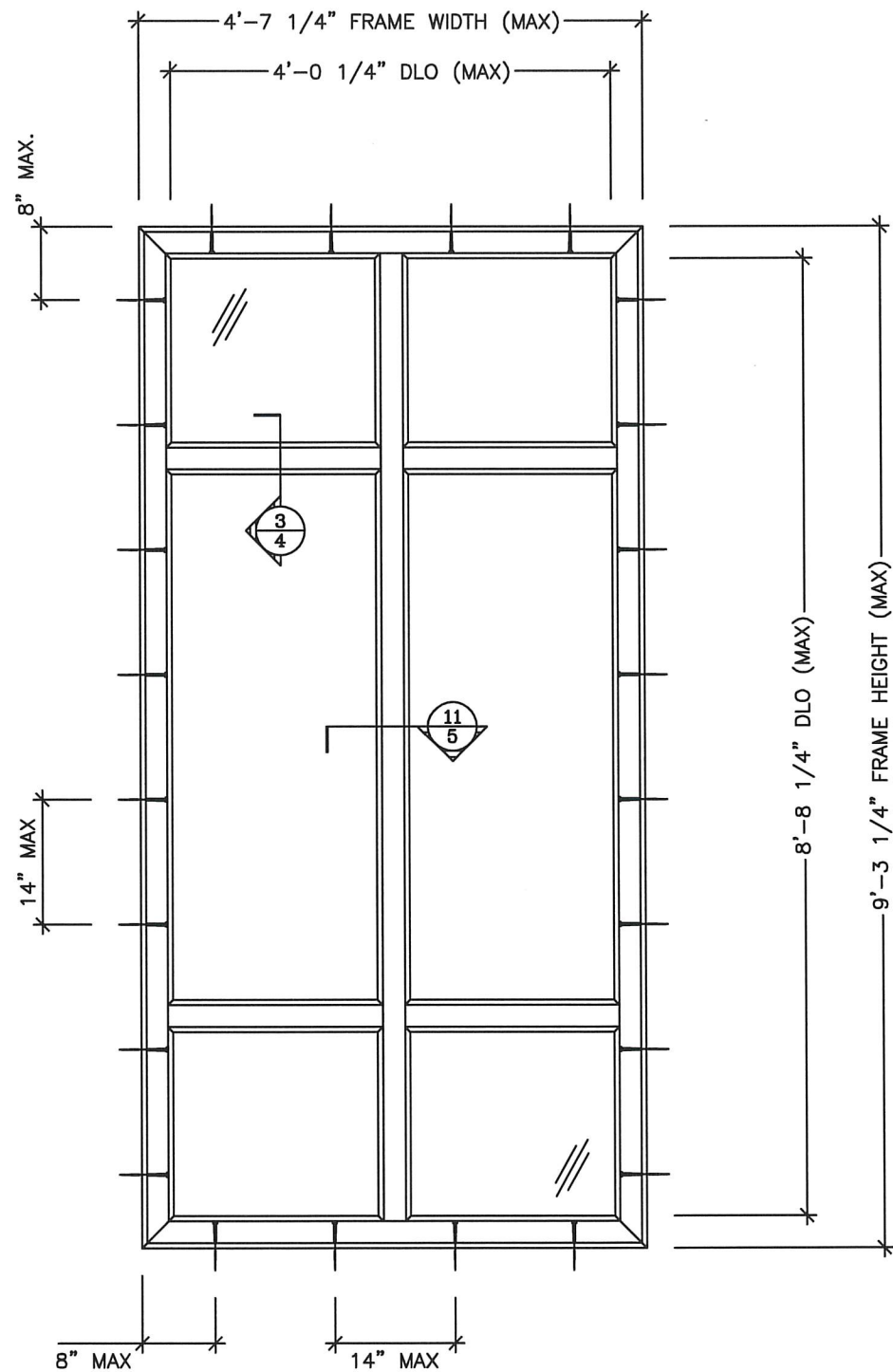
REVISIONS

1 OF 7

ELEVATIONS



1 SINGLE FIXED WINDOW  
(EXTERIOR VIEW)



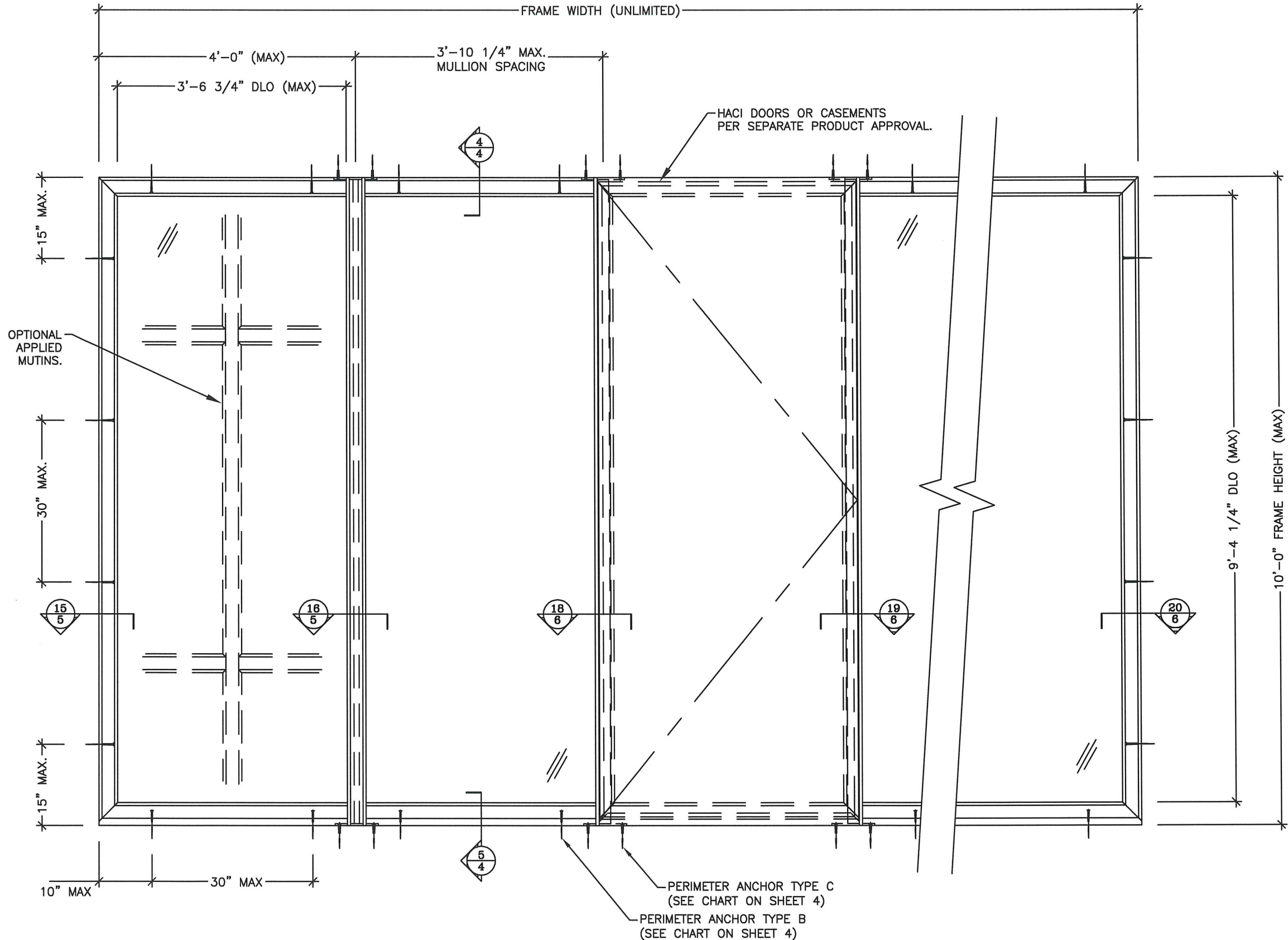
2 SINGLE FIXED WINDOW  
WITH APPLIED MUTINS  
(EXTERIOR VIEW)



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|                          |  |                                 |  |                                                   |  |                    |  |                  |  |
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| NOTES                    |  | REVISIONS                       |  | 12/12/22                                          |  | RKH                |  |                  |  |
| 2                        |  | OF                              |  | 7                                                 |  |                    |  |                  |  |

## ELEVATIONS



③ WINDOW WALL SYSTEM  
WITH OUTSWING DOOR  
(EXTERIOR VIEW)



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2000 SERIES FIXED WINDOW

# HISTORICAL ARTS & CASTING, INC.

5560 WEST Bagley PARK Rd., WEST JORDAN, UT. 84081  
 PHONE 801-280-2400 FAX 801-280-2493

**FAX 801-280-2493**

**PHONE 801-280-2400**

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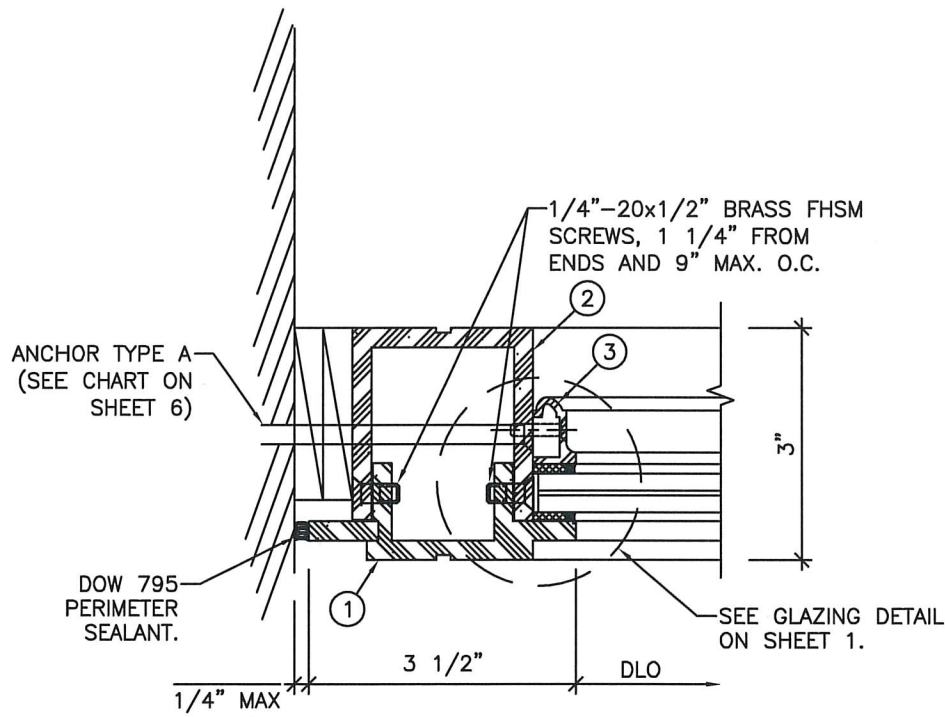
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|       |           |
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| NOTES | REVISIONS |
|-------|-----------|

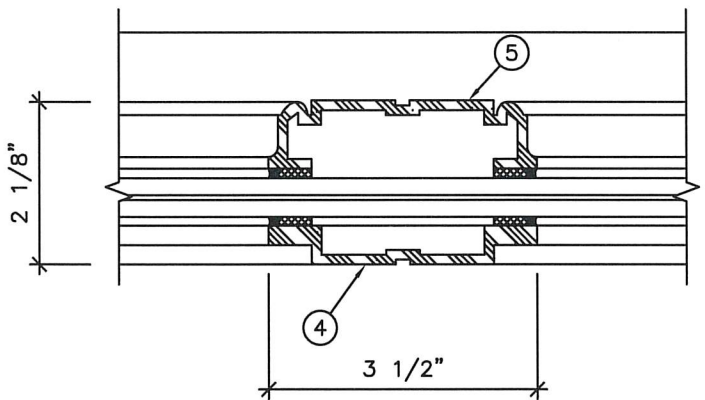
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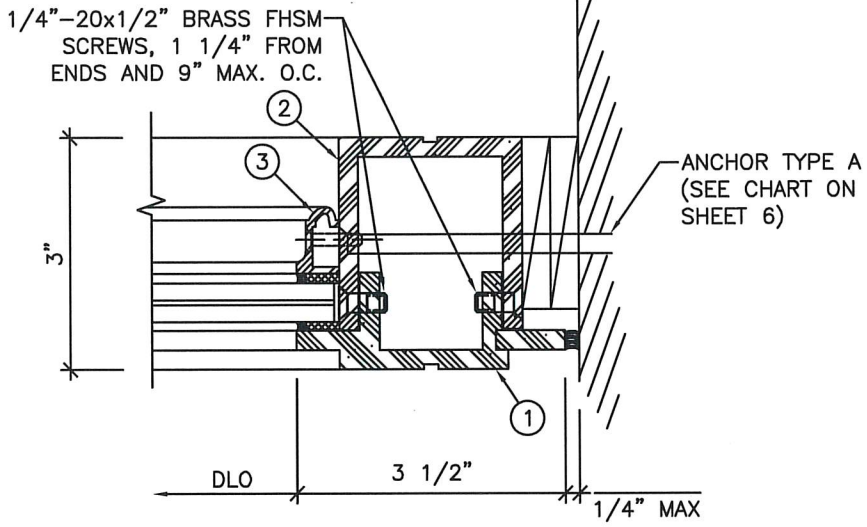
SECTION DETAILS



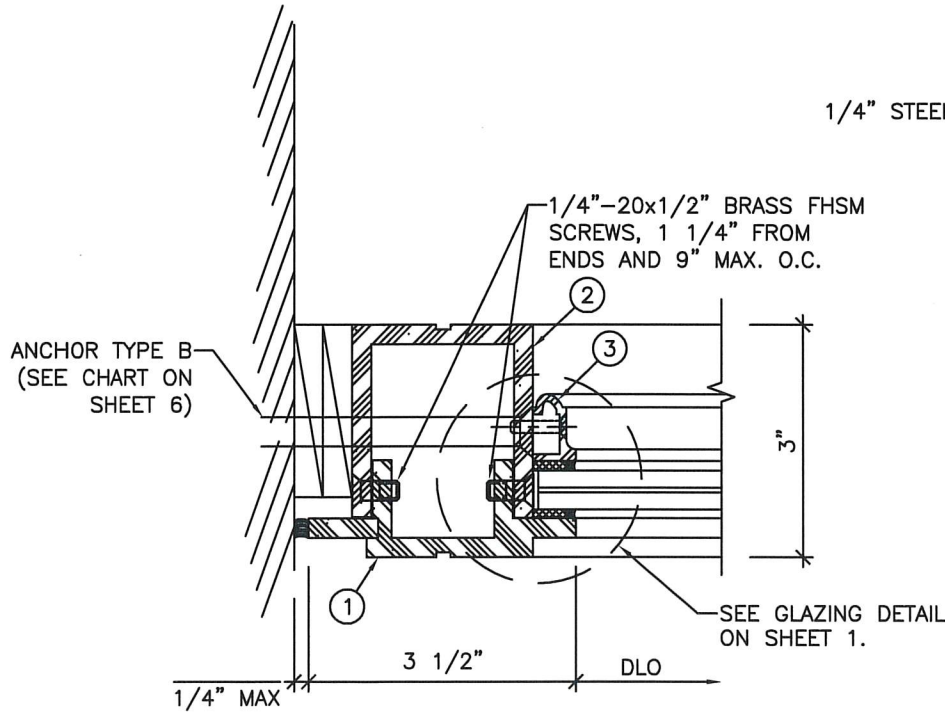
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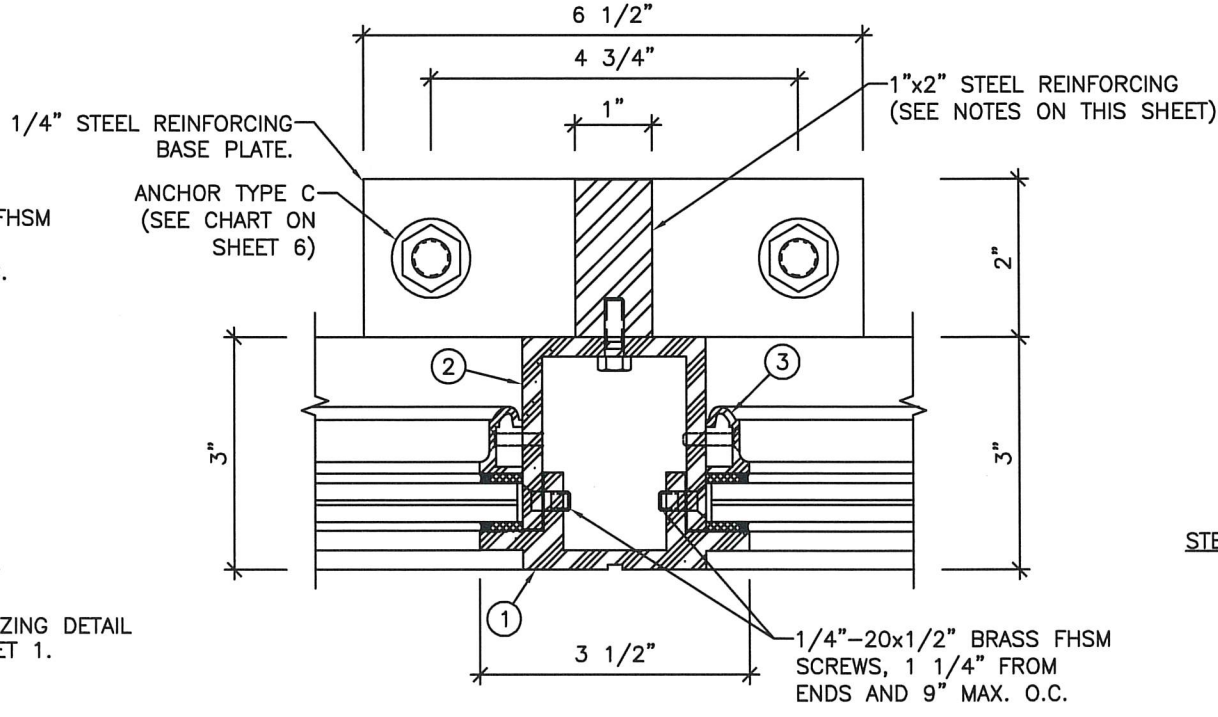
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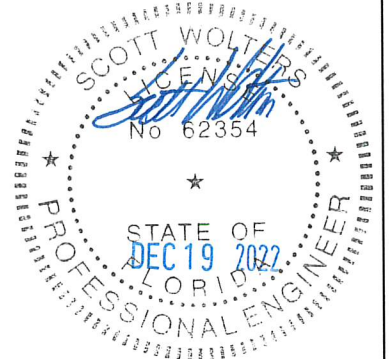


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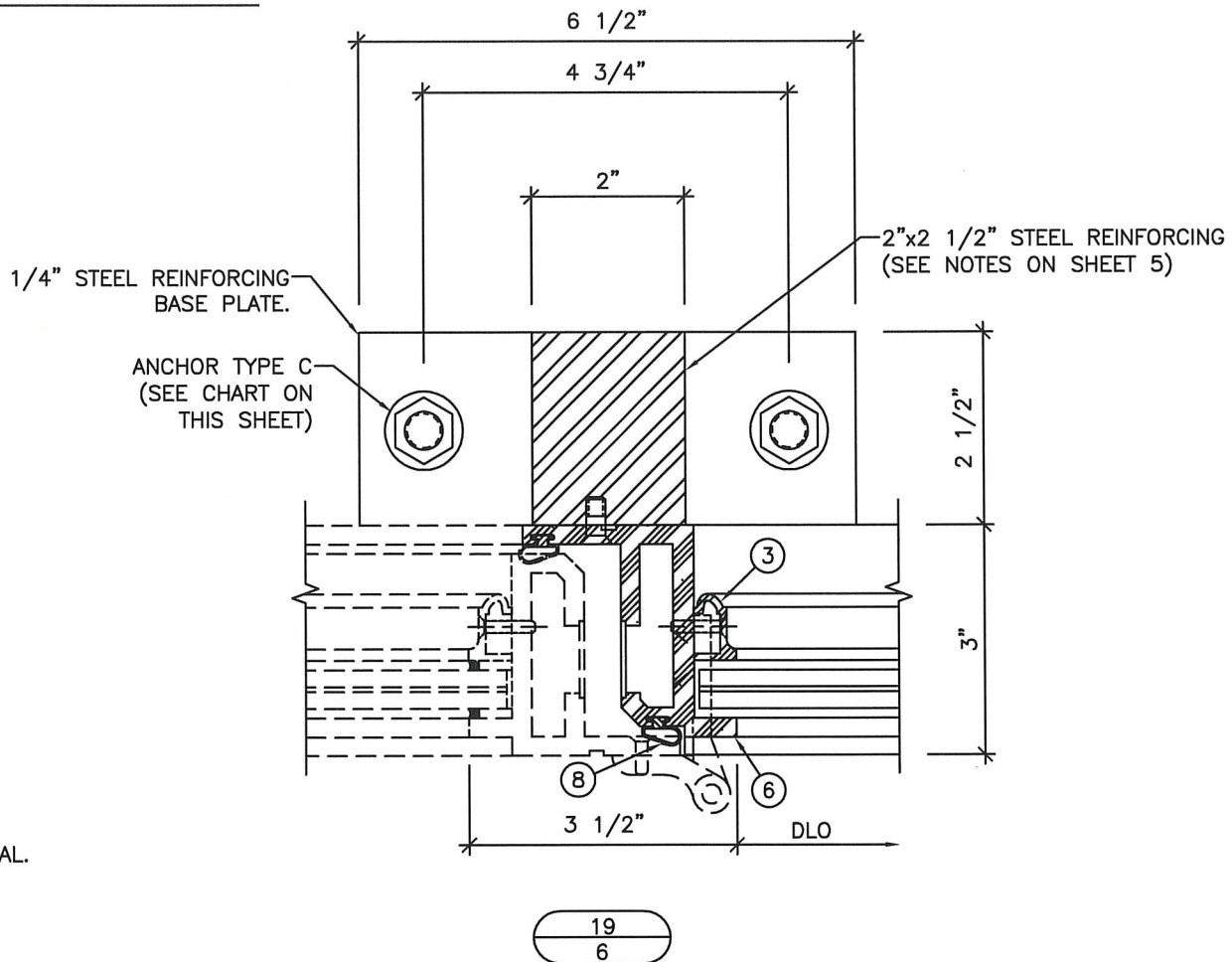
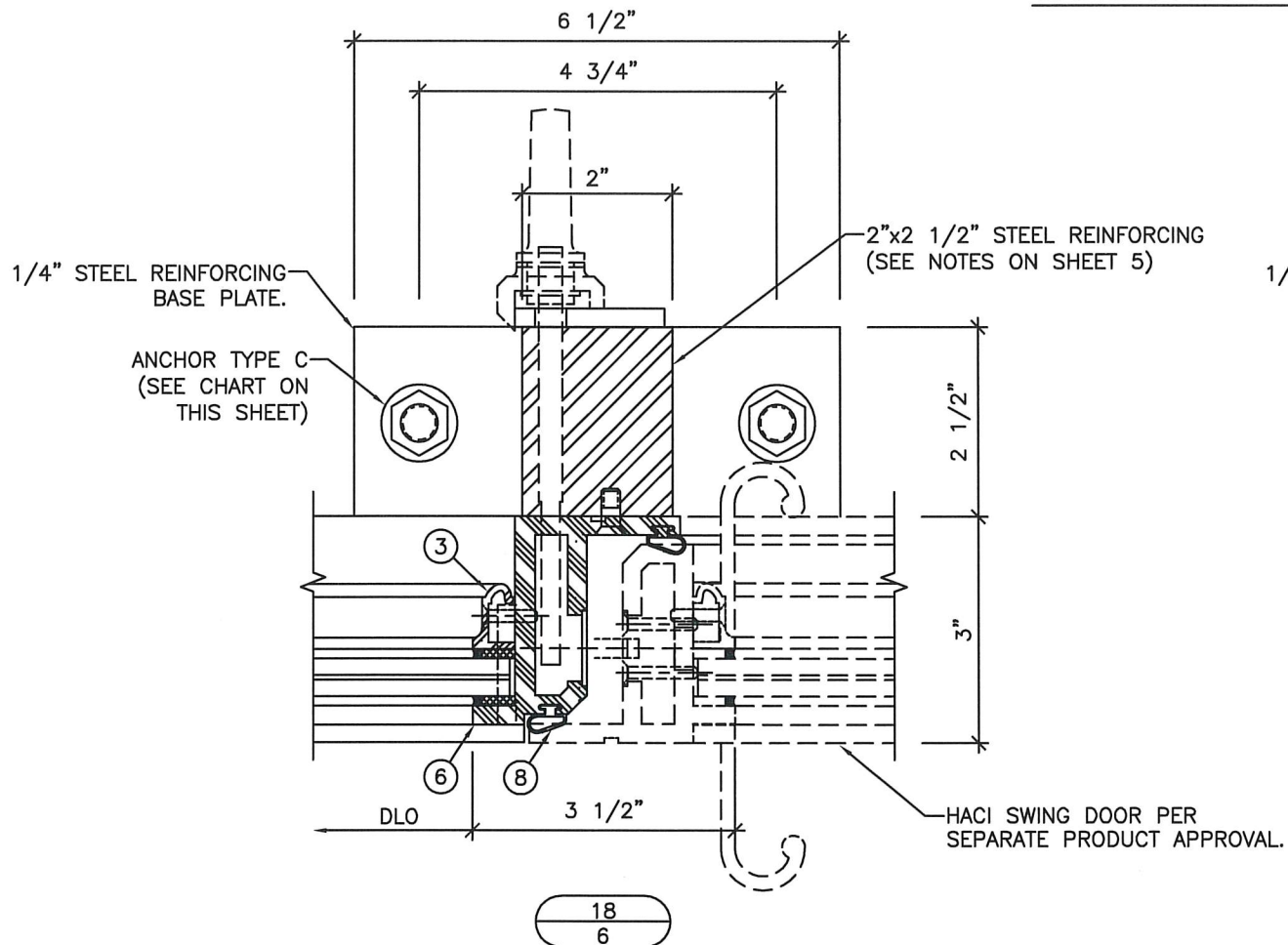
- STEEL REINFORCING NOTES:
1. STEEL REINFORCING IS WELDED TO STEEL BASE PLATES WITH 1/4" FILLET WELDS ON 2 SIDES.
  2. STEEL REINFORCING IS FASTENED TO BRONZE MULLIONS WITH 1/4"-20 FH MACHINE SCREWS.
  3. SCREWS ARE SPACED 12" O.C. OVER THE MIDDLE 48" OF REINFORCING, AND 6" O.C. ABOVE AND BELOW THE MIDDLE 48".



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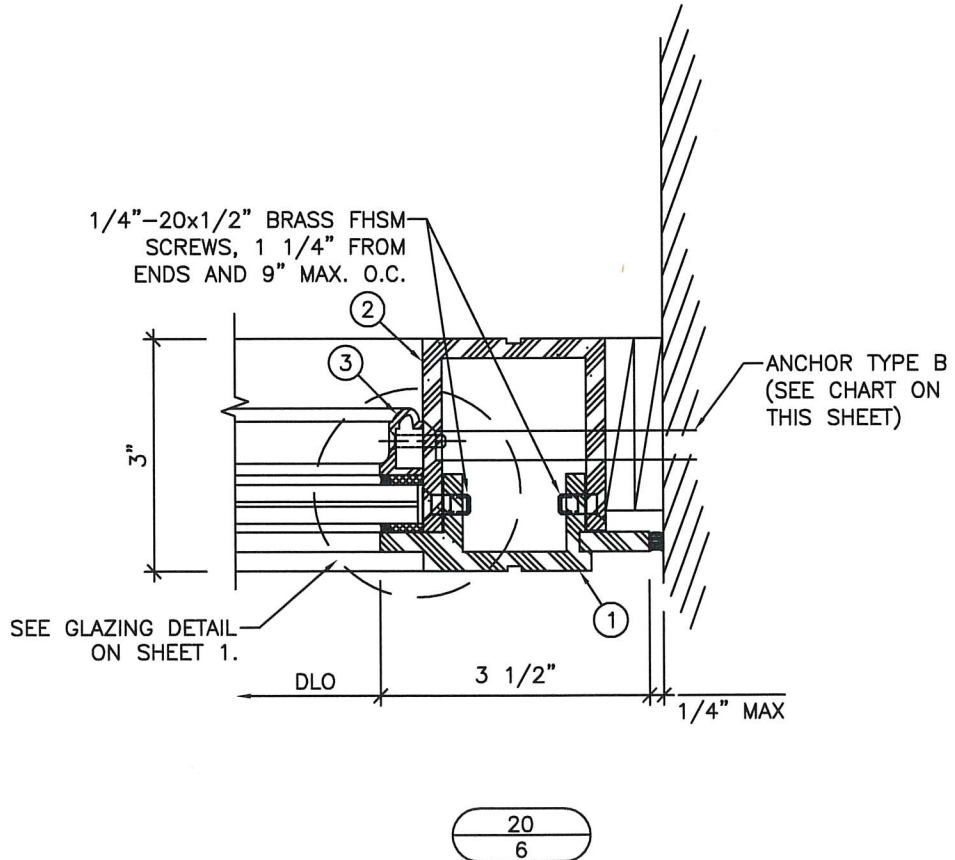
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|                          |                                                                                       | PHONE 801-280-2400                                |  |          |     |
|                          |                                                                                       | FAX 801-280-2493                                  |  |          |     |
|                          |                                                                                       |                                                   |  |          |     |
| NOTES                    |                                                                                       | REVISIONS                                         |  | 5 OF 7   |     |

## SECTION DETAILS



| ANCHOR CHART  |                              |                                                                |                   |                    |
|---------------|------------------------------|----------------------------------------------------------------|-------------------|--------------------|
| ANCHOR TYPE   | SUBSTRATE                    | DESCRIPTION                                                    | MINIMUM EMBEDMENT | MIN. EDGE DISTANCE |
| ANCHOR TYPE A | WOOD<br>(1 1/2", SG=0.5 min) | #14 BRASS WOOD SCREW<br>(Fu=60.9 ksi min, Fy=31.9 ksi min)     | 1 3/8"            | 1"                 |
|               | CONCRETE<br>(3500 psi min)   | 5/16" DIA. DEWALT ULTRACON                                     | 1 3/4"            | 2 1/2"             |
|               | STEEL<br>(1/4", 46 ksi min)  | 1/4" DIA. F-TYPE SCREW<br>(SAE Gr. 5 min)                      | FULL*             | 1"                 |
|               |                              | 1/4" DIA. ELCO DRIL-FLEX                                       | FULL*             | 1"                 |
| ANCHOR TYPE B | CONCRETE<br>(3500 psi min)   | 3/8" DIA. SS BOLT (Fu=100 ksi min)<br>WITH HILTI HY-200R EPOXY | 3 3/8"            | 3 1/2"             |
|               |                              | 3/8" DIA DEWALT SCREWBOLT+                                     | 3 1/4"            | 3 1/2"             |
|               | STEEL<br>(1/4", 46 ksi min)  | 3/8" DIA. F-TYPE SCREW<br>(SAE Gr. 5 MIN)                      | FULL*             | 1"                 |
|               |                              | 3/8" DIA. ELCO TAP-FLEX                                        | FULL*             | 1"                 |
| ANCHOR TYPE C | CONCRETE<br>(3500 psi min)   | 1/2" DIA. SS BOLT (Fu=100 ksi min)<br>WITH HILTI HY-200R EPOXY | 2 3/4"            | 4 1/2"             |
|               |                              | 1/2" DIA DEWALT SCREWBOLT+                                     | 3"                | 4 1/2"             |
|               | STEEL<br>(1/4", 46 ksi min)  | 1/2" DIA. F-TYPE SCREW<br>(SAE Gr. 5 MIN)                      | FULL*             | 1 1/4"             |
|               |                              | 1/2" DIA. ELCO TAP-FLEX                                        | FULL*             | 1 1/4"             |

\* FASTENER THREADS MUST FULLY PENETRATE STEEL WALL, WITH THREE ADDITIONAL THREADS BEYOND, FOR FULL EMBEDMENT



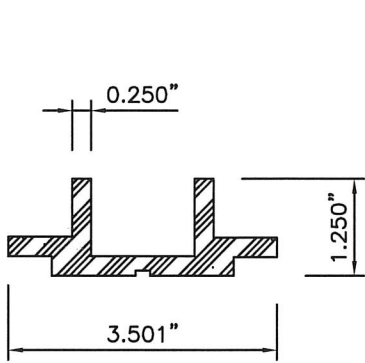
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|  | <b>2000 SERIES FIXED WINDOW</b>                          |                  |  |
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|                                                                                       | <b>PHONE 801-280-2400</b>                                |                  |  |
|                                                                                       | <b>FAX 801-280-2493</b>                                  |                  |  |
|                                                                                       | <b>12/12/22</b>                                          |                  |  |
|                                                                                       | <b>RKH</b>                                               |                  |  |
| <b>NOTES</b>                                                                          |                                                          | <b>REVISIONS</b> |  |
| 6                                                                                     |                                                          | OF 7             |  |

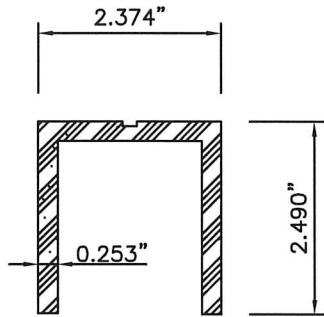
# BILL OF MATERIALS

| BILL OF MATERIALS |             |                        |                |
|-------------------|-------------|------------------------|----------------|
| MARK              | PART NUMBER | DESCRIPTION            | MATERIAL/NOTES |
| 1                 | DW2000.41   | EXTERIOR HALF-MULLION  | 380/385 BRONZE |
| 2                 | DW2000.40   | INTERIOR HALF-MULLION  | 380/385 BRONZE |
| 3                 | DW2000.06   | GLASS STOP             | 380/385 BRONZE |
| 4                 | DW2000.42   | EXTERIOR APPLIED MUTIN | 380/385 BRONZE |
| 5                 | DW2000.43   | INTERIOR APPLIED MUTIN | 380/385 BRONZE |
| 6                 | DW2000.08M  | DOOR FRAME             | 380/385 BRONZE |
| 8                 | P.N.CR99S6  | GASKET                 | SILICONE       |

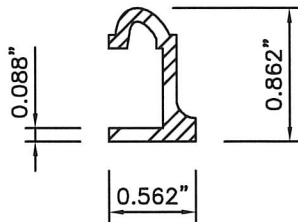
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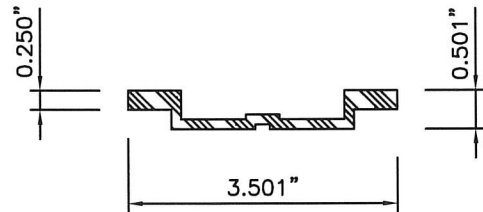
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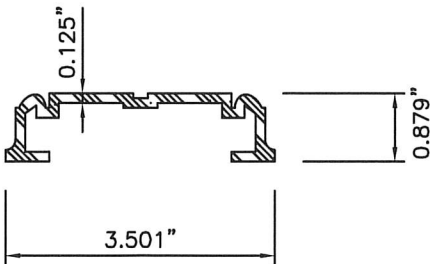
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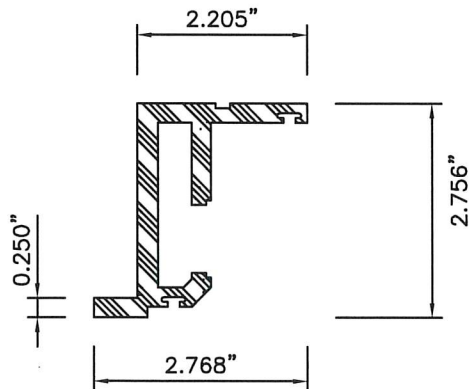
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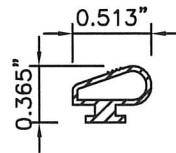
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8

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NOTES REVISIONS  
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