

INSTALLATION NOTES:

- ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN.
- THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION.
- INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF +1/2 INCH OF THE DEPICTED LOCATION IN THE ANCHOR LAYOUT DETAIL (I.E., WITHOUT CONSIDERATION OF TOLERANCES). TOLERANCES ARE NOT CUMULATIVE FROM ONE INSTALLATION ANCHOR TO THE NEXT.
- SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM(S) MAXIMUM ALLOWABLE SHIM STACK TO BE 1/2 INCH UNLESS OTHERWISE NOTED. SHIM WHERE SPACE OF 1/16 INCH OR GREATER OCCURS. SHIM(S) SHALL BE CONSTRUCTED OF HIGH DENSITY PLASTIC OR BETTER.
- FOR INSTALLATION INTO WOOD FRAMING USE #10 WOOD SCREWS OF SUFFICIENT LENGTH TO ACHIEVE 1 1/2 INCH MINIMUM EMBEDMENT INTO WOOD SUBSTRATE WITH MINIMUM 3/4 INCH EDGE DISTANCE.
- FOR INSTALLATION THROUGH 1X BUCK TO CONCRETE/MASONRY, OR DIRECTLY INTO CONCRETE/MASONRY, USE 3/16 INCH DIAMETER ITW TAPCONS OF SUFFICIENT LENGTH TO ACHIEVE 1 1/4 INCH MINIMUM EMBEDMENT INTO CONCRETE SUBSTRATE WITH 2 1/4 INCH EDGE DISTANCE OR SUFFICIENT LENGTH TO ACHIEVE 1 INCH MINIMUM EMBEDMENT INTO MASONRY SUBSTRATE WITH 2 INCH EDGE DISTANCE.
- FOR INSTALLATION THROUGH METAL STUD USE #12 TEK SCREWS OF SUFFICIENT LENGTH TO ACHIEVE 3 THREADS MINIMUM PENETRATION BEYOND METAL FRAME SUBSTRATE WITH MINIMUM 1/2 INCH EDGE DISTANCE.
- MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING.
- INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.
- FOR HOLLOW BLOCK AND GROUT FILLED BLOCK, DO NOT INSTALL INSTALLATION ANCHORS INTO MORTAR JOINTS. EDGE DISTANCE IS MEASURED FROM FREE EDGE OF BLOCK OR EDGE OF MORTAR JOINT INTO FACE SHELL OF BLOCK.
- INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BY THE ANCHOR MANUFACTURER.
- INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:
  - WOOD-MINIMUM SPECIFIC GRAVITY OF 0.55.
  - CONCRETE -MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI.
  - CMU MASONRY - STRENGTH CONFORMANCE TO ASTM C-90, MEDIUM WEIGHT, COMPRESSIVE STRENGTH MIN. 1900 PSI, (DENSITY >117 PCF).
  - STEEL- MINIMUM YIELD STRENGTH OF 33 KSI. MINIMUM 18 GA. WALL THICKNESS.
- INSTALLATION SHALL FOLLOW MANUFACTURERS RECOMMENDATIONS FOR SEALING WINDOWS AND ACCESSORY ITEM.

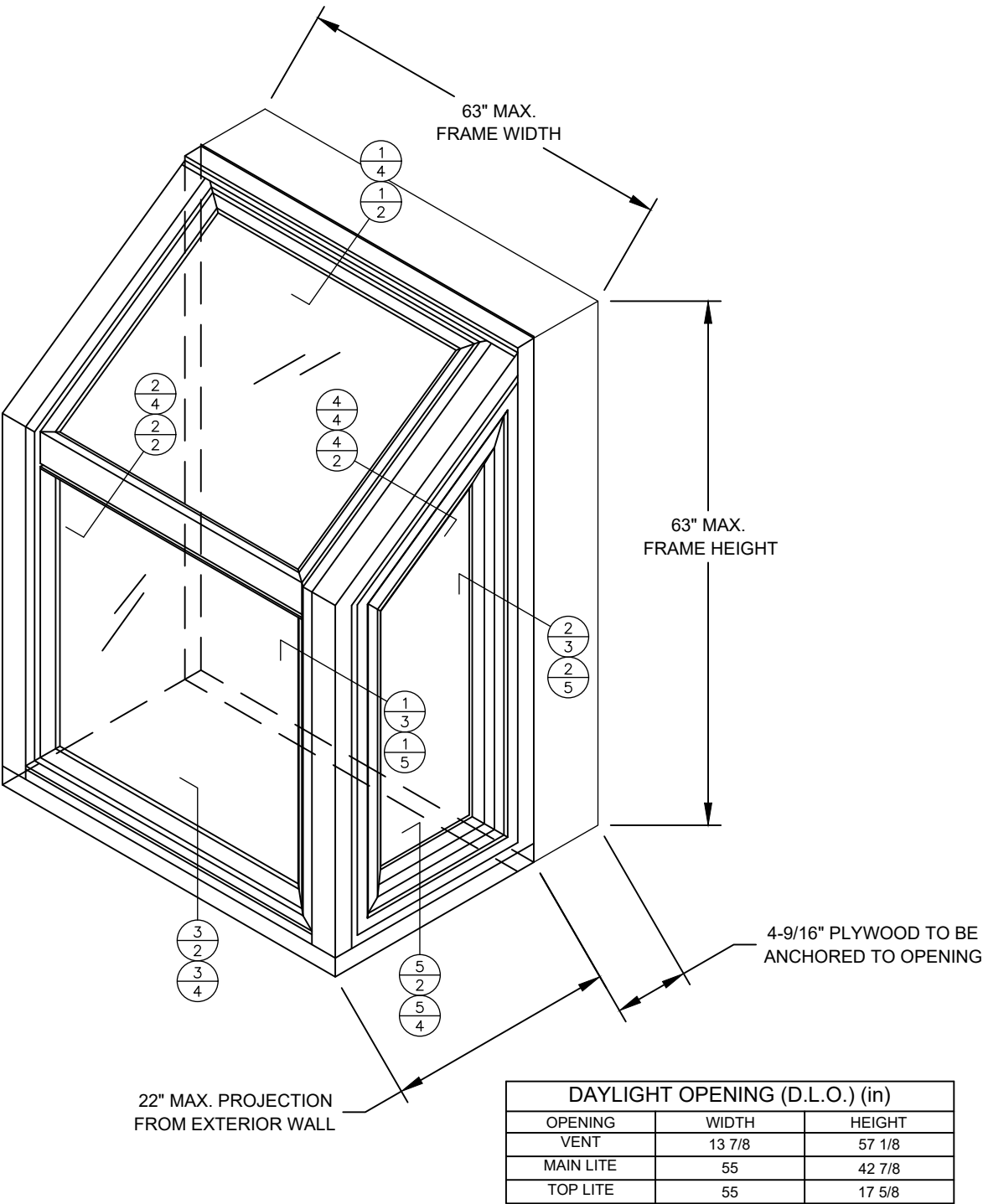
| TABLE OF CONTENTS |                                                              |
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| 1                 | ELEVATION, INSTALLATION AND GENERAL NOTES                    |
| 2 & 3             | SERIES 2050 RETROFIT & NEW CONSTRUCTION INSTALLATION DETAILS |
| 4 & 5             | SERIES 2051 STUCCO EXTERIOR FINISH INSTALLATION DETAILS      |

GENERAL NOTES:

- THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE FLORIDA BUILDING CODE (FBC) EXCLUDING THE HIGH VELOCITY HURRICANE ZONE (HVHZ).
- THE PRODUCT SHOWN HEREIN HAS BEEN TESTED IN ACCORDANCE WITH THE FOLLOWING AS DOCUMENTED IN ATI TEST REPORT NO. E2513.01-501-44 and D4389.01-501-44:
  - AAMA/WDMA/CSA 101/1.5.2/A440-08/11
  - ASTM E1886-05
  - ASTM E1996-12
- ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY, 2X FRAMING AND METAL STUD FRAMING AS A MAIN WIND FORCE RESISTING SYSTEM CAPABLE OF WITHSTANDING AND TRANSFERRING APPLIED PRODUCT LOADS TO THE FOUNDATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
- 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO THE STRUCTURE. BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
- THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT. DOCUMENTS SHALL BE APPROVED BY AUTHORITY HAVING JURISDICTION (AHJ).
- IMPACT PROTECTION IN WIND BORNE DEBRIS REGIONS
  - THIS PRODUCT HAS BEEN TESTED WITH IMPACT RESISTANT MEETING WIND ZONE 3, MISSILE LEVEL D
  - FOR REGIONS UP TO AND INCLUDING WIND ZONE 3, MISSILE LEVEL D, THIS PRODUCT WILL NOT REQUIRE AN APPROVED IMPACT PROTECTIVE DEVICE.
  - FOR REGIONS EXCEEDING WIND ZONE 3, MISSILE LEVEL D, THIS PRODUCT WILL REQUIRE AN APPROVED IMPACT PROTECTIVE DEVICE.
- WINDOW FRAME MATERIAL: PVC & 5/4 PLYWOOD (DOMESTIC FIR CORE, MIN. S.G. - 0.42)
- GLASS MEETS THE REQUIREMENTS OF ASTM E1300-12AE1. SEE SHEET 3 & 5 FOR GLAZING DETAILS.
- SERIES 2050 AND SERIES 2051 ARE THE SAME WINDOW. DIFFERENCE IS IN THE MANOR OF INSTALLATION.

VENTANA USA

SERIES 2050/2051 GARDEN WINDOW (IMPACT)  
INSTALLATION ANCHORAGE DETAILS



| DESIGN PRESSURE RATING (PSF)        |                            |                                |
|-------------------------------------|----------------------------|--------------------------------|
| MAX. OVERALL TESTED FRAME SIZE (IN) | MAX. DESIGN PRESSURE (PSF) | IMPACT RATING                  |
| 63" X 63" X 22" DEPTH               | +/- 50.0                   | WIND ZONE 3<br>MISSILE LEVEL D |

PROJECT NO. ACE-2020-126

VENTANA USA  
6001 ENTERPRISE DRIVE  
EXPORT, PA 15632

TITLE: SERIES 2050/2051 GARDEN WINDOW (IMPACT)  
ELEVATION, INSTALLATION AND GENERAL NOTES

DRAWN BY: RJA

SCALE: N.T.S.

REV: ---

DATE: 10/19/20

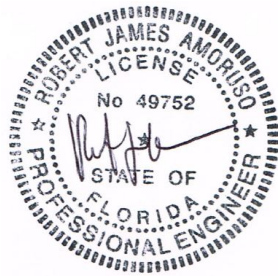
DRAWING NO: ACE0003

SHEET: 1 OF 5



PH: 724-325-3400 FAX: 724-327-4540

Robert J. Amoruso, P.E.  
Florida P.E. No. 49752



Digitally signed  
by Robert J  
Amoruso

Date: 2020.12.03  
11:37:02 -05'00'

12472 LAKE UNDERHILL RD.  
SUITE NO. 148  
ORLANDO, FL 32828  
robert.amoruso@comcast.net

# **SERIES 2050 GARDEN WINDOW** **RETROFIT & NEW CONSTRUCTION** **INSTALLATION**

PROJECT NO. ACE-2020-126

| REV | DESCRIPTION | DATE | BY |
|-----|-------------|------|----|
|-----|-------------|------|----|

|      |     |        |        |
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| REV: | --- | SHEET: | 2 OF 5 |
|------|-----|--------|--------|

**VENTANA USA  
6001 ENTERPRISE DRIVE  
EXPORT, PA 15632**

**TITLE:** SERIES 2050/2051 GARDEN WINDOW (IMPACT)

|                                                                                       |           |       |
|---------------------------------------------------------------------------------------|-----------|-------|
|  | DRAWN BY: | DATE: |
|                                                                                       |           |       |

|                                                                                                                           |                 |            |                     |
|---------------------------------------------------------------------------------------------------------------------------|-----------------|------------|---------------------|
| <br><b>UNIVERSITY OF THE PACIFIC</b> | <b>VENTIANA</b> | <b>RJA</b> | <b>10/19/20</b>     |
|                                                                                                                           | <b>SCALE:</b>   |            | <b>DRAWING NO.:</b> |

|                                  |        |         |
|----------------------------------|--------|---------|
| PH-724-325-3400 FAX-724-327-4540 | N.I.S. | ACE0003 |
| REV:                             |        | SHEET:  |

VEN

# 6001 ENI EXPO

50/2051 G  
ROEIT/NEV

**CONCLUSION**

ANA

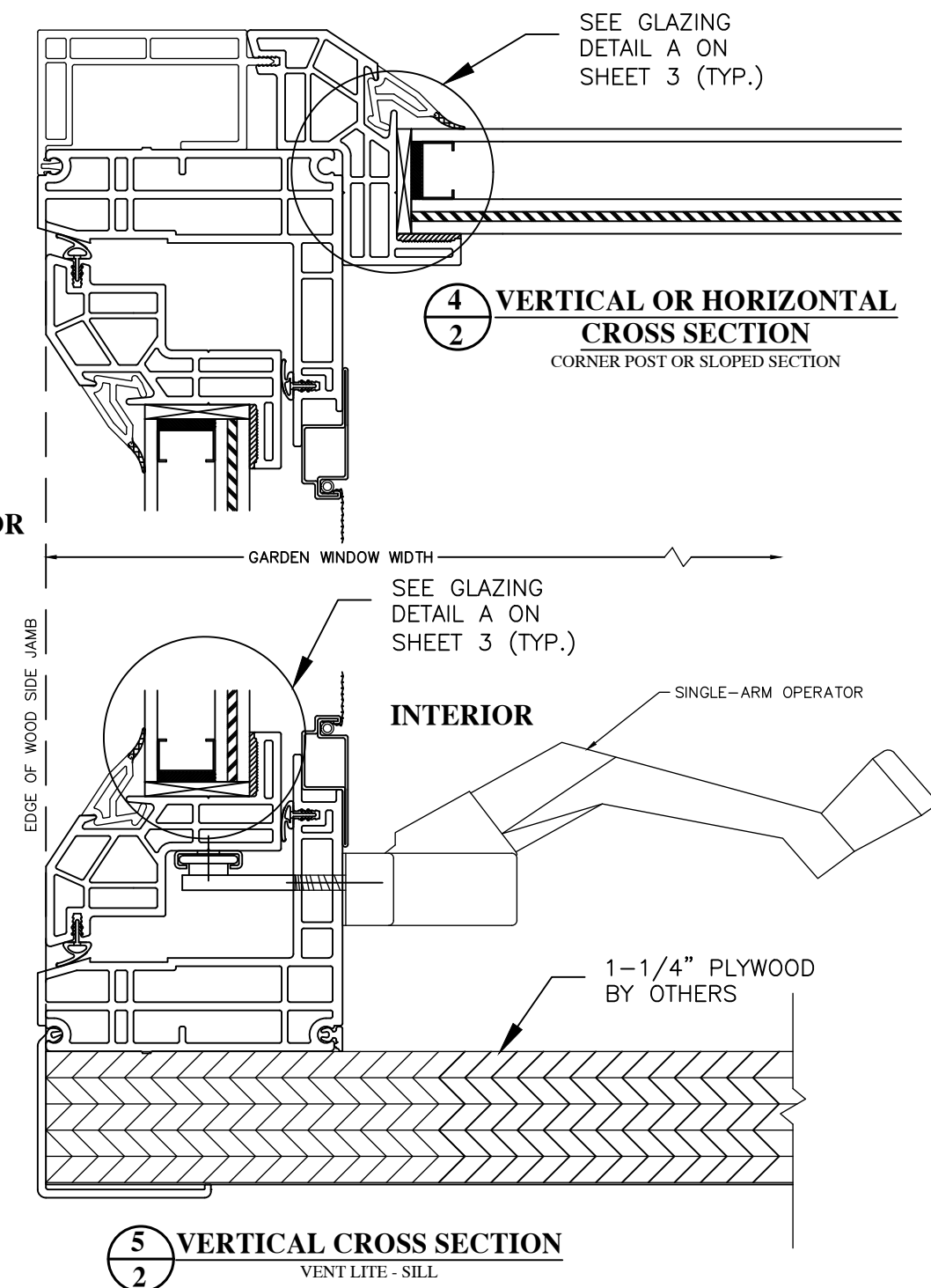
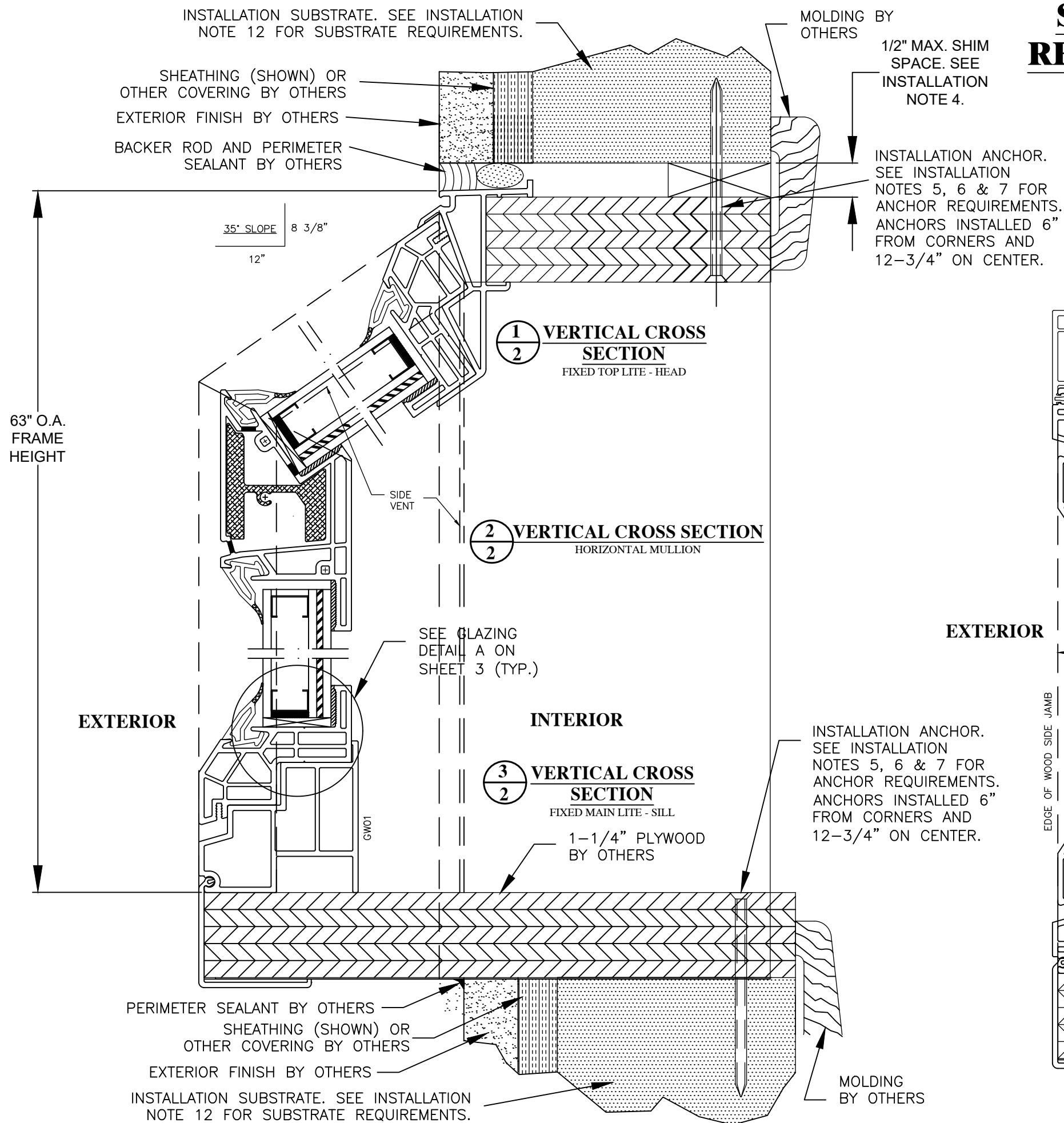
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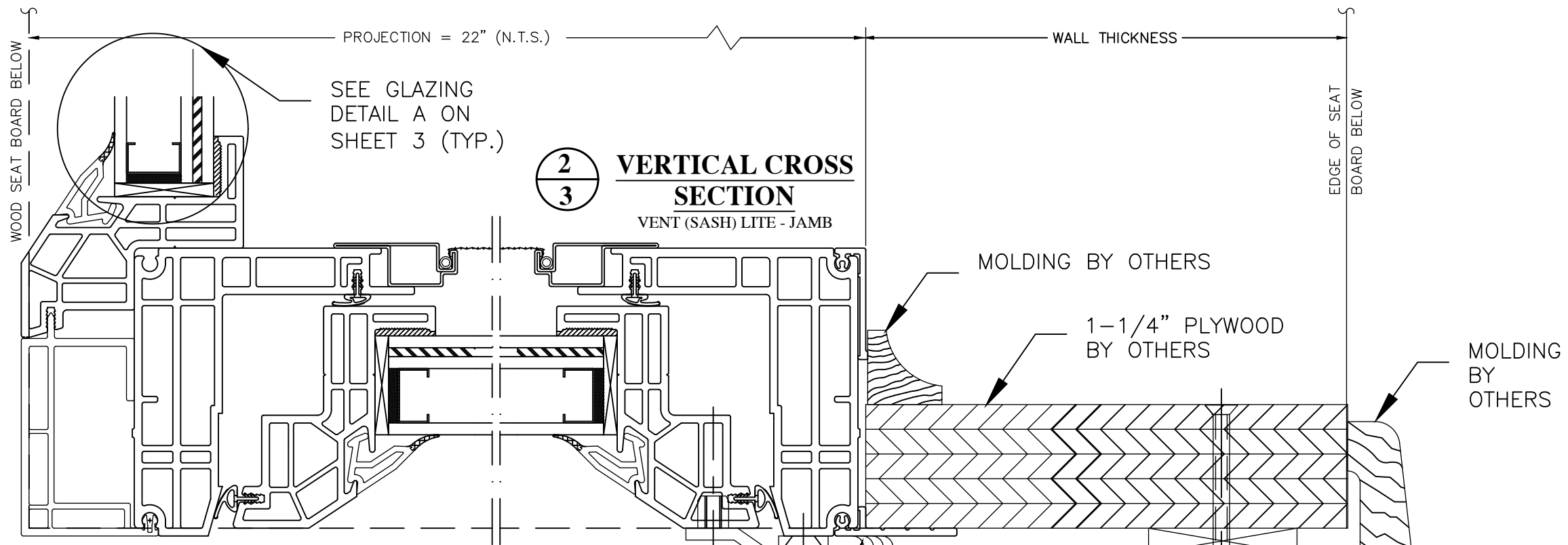
Robert J. Amoruso, P.E.  
Florida P.E. No. 49752

A circular professional engineer seal for Robert James Amoroso. The outer ring contains the text "ROBERT JAMES AMOROSO" at the top and "PROFESSIONAL ENGINEER" at the bottom, separated by two stars. Inside the ring, the word "LICENSE" is at the top and "STATE OF FLORIDA" is at the bottom. In the center, the license number "No 49752" is printed above a handwritten signature that appears to be "R Amoroso".

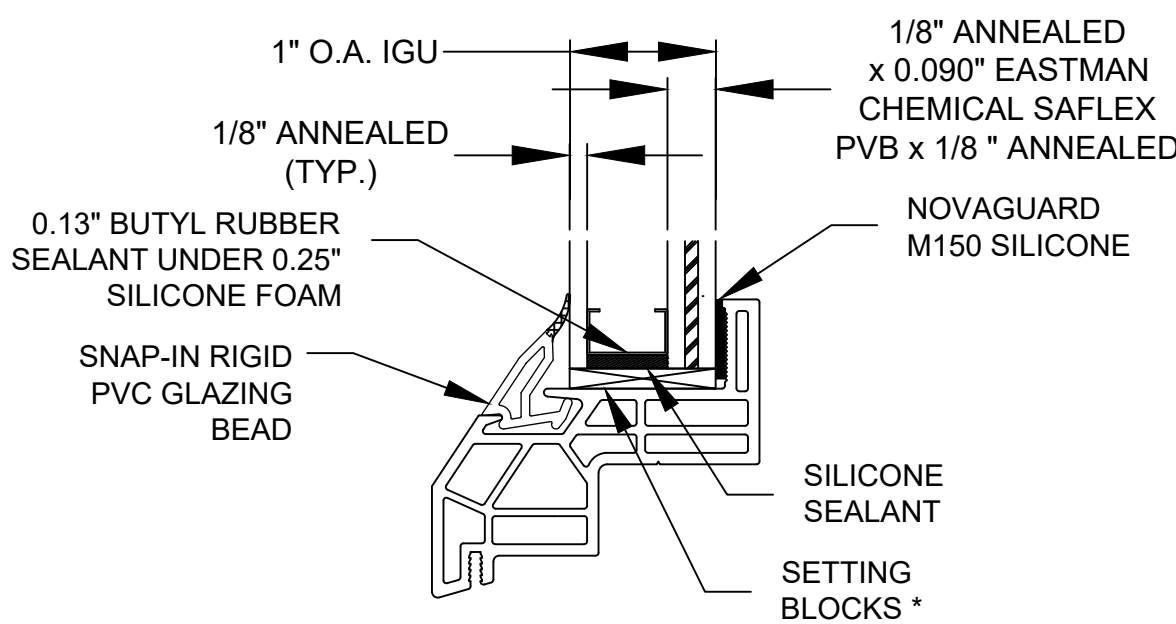
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by Robert J  
Amoruso  
Date: 2020.12.03  
11:37:19 -05'00'

12472 LAKE UNDERHILL RD.  
SUITE NO. 148  
ORLANDO, FL 32828  
robert.amoruso@comcast.net





**1/3 VERTICAL CROSS SECTION**  
VENT LITE - CORNER POST



**GLAZING DETAIL A**

\* A MINIMUM OF TWO (2) NEOPRENE SETTING BLOCKS WITH 70 TO 90 SHORE A DUROMETER HARDNESS ARE REQUIRED AT BOTTOM (SILL) OF GLAZING LITES MORE THAN 3 FEET IN WIDTH.

PERIMETER SEALANT BY OTHERS  
SHEATHING (SHOWN) OR  
OTHER COVERING BY OTHERS

EXTERIOR FINISH BY OTHERS

INSTALLATION SUBSTRATE. SEE  
INSTALLATION NOTE 12 FOR  
SUBSTRATE REQUIREMENTS.

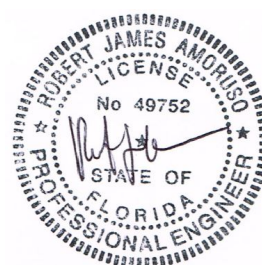
INSTALLATION ANCHOR. SEE INSTALLATION NOTES 5, 6 &  
7 FOR ANCHOR REQUIREMENTS. ANCHORS INSTALLED 6"  
FROM CORNERS AND 12-3/4" ON CENTER.

## **SERIES 2050 GARDEN WINDOW RETROFIT & NEW CONSTRUCTION INSTALLATION**

|                          |  |  |  |  |             |
|--------------------------|--|--|--|--|-------------|
| PROJECT NO. ACE-2020-126 |  |  |  |  | BY          |
|                          |  |  |  |  | DATE        |
|                          |  |  |  |  | DESCRIPTION |
|                          |  |  |  |  | REV         |

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|--------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------------------------------|-------------------|------------------------|------------------|
| <b>VENTANA USA</b><br>6001 ENTERPRISE DRIVE<br>EXPORT, PA 15632                                                                            |  | TITLE:<br>SERIES 2050/2051 GARDEN WINDOW (IMPACT)<br>SERIES 2050 RETROFIT/NEW CONST. INSTALLATION DETAILS | DATE:<br>10/19/20 | DRAWING NO:<br>ACE0003 | SHEET:<br>3 OF 5 |
| <b>VENTANA</b><br> PH: 724-325-3400 FAX: 724-327-4540 |  | DRAWN BY:<br>RJA                                                                                          | SCALE:<br>N.T.S.  | REV:<br>---            |                  |

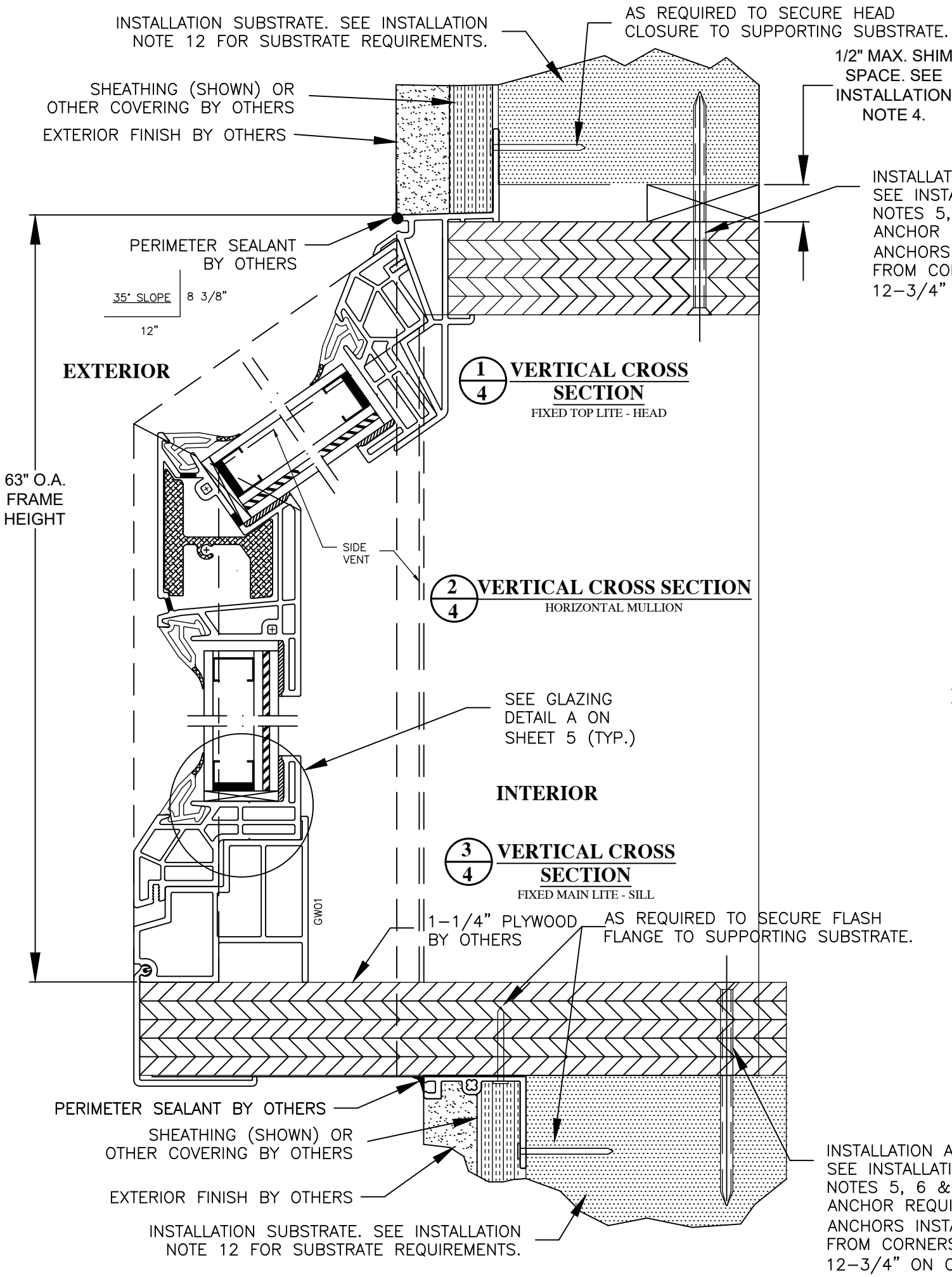
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Florida P.E. No. 49752



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Amoruso  
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12472 LAKE UNDERHILL RD.  
SUITE NO. 148  
ORLANDO, FL 32828  
robert.amoruso@comcast.net

SERIES 2051 GARDEN WINDOW  
STUCCO EXTERIOR FINISH  
INSTALLATION



**2**  
**4** VERTICAL CROSS SECTION  
HORIZONTAL MULLION

SEE GLAZING  
DETAIL A ON  
SHEET 5 (TYP.)

INTERIOR

**3**  
**4** VERTICAL CROSS SECTION  
FIXED MAIN LITE - SILL

1-1/4" PLYWOOD BY OTHERS

AS REQUIRED TO SECURE FLASH FLANGE TO SUPPORTING SUBSTRATE.

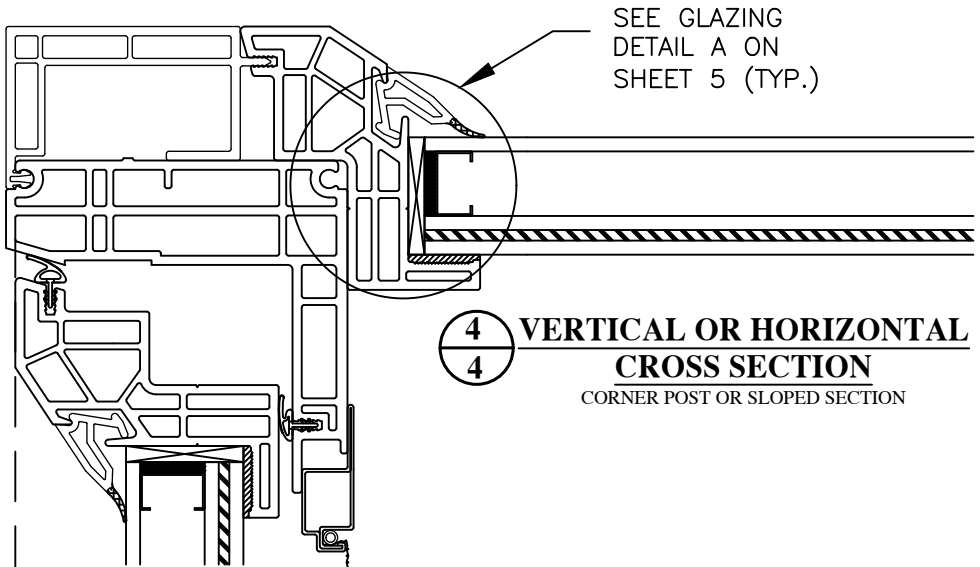
PERIMETER SEALANT BY OTHERS

SHEATHING (SHOWN) OR OTHER COVERING BY OTHERS

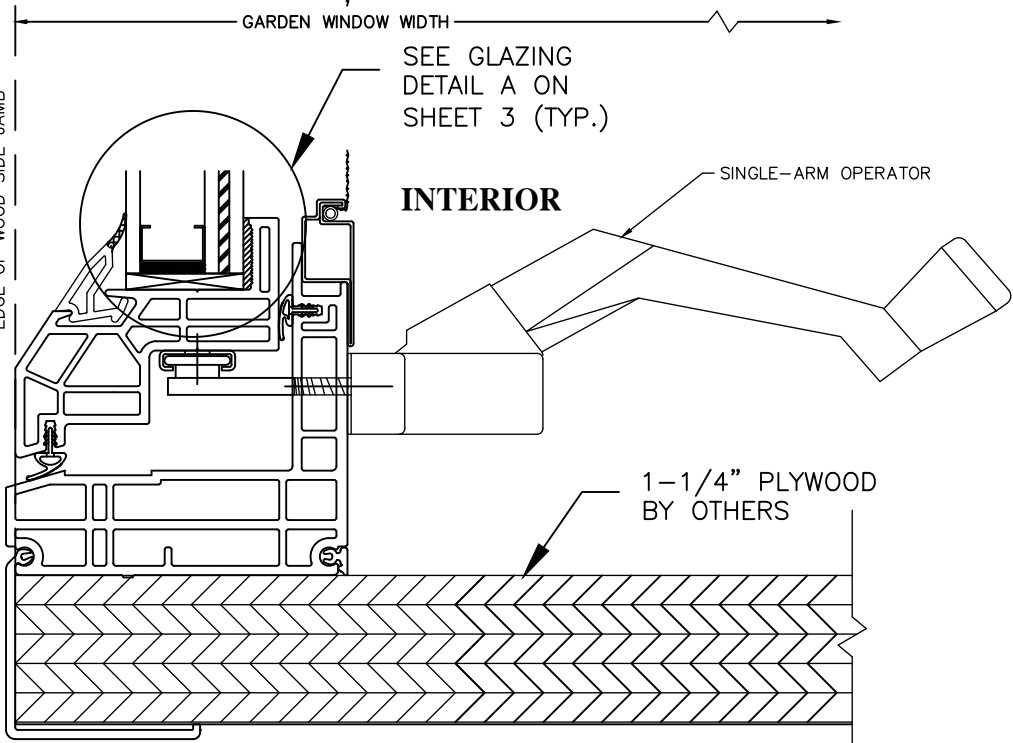
EXTERIOR FINISH BY OTHERS

INSTALLATION SUBSTRATE. SEE INSTALLATION NOTE 12 FOR SUBSTRATE REQUIREMENTS.

INSTALLATION ANCHOR. SEE INSTALLATION NOTES 5, 6 & 7 FOR ANCHOR REQUIREMENTS. ANCHORS INSTALLED 6" FROM CORNERS AND 12-3/4" ON CENTER.



EXTERIOR



INTERIOR

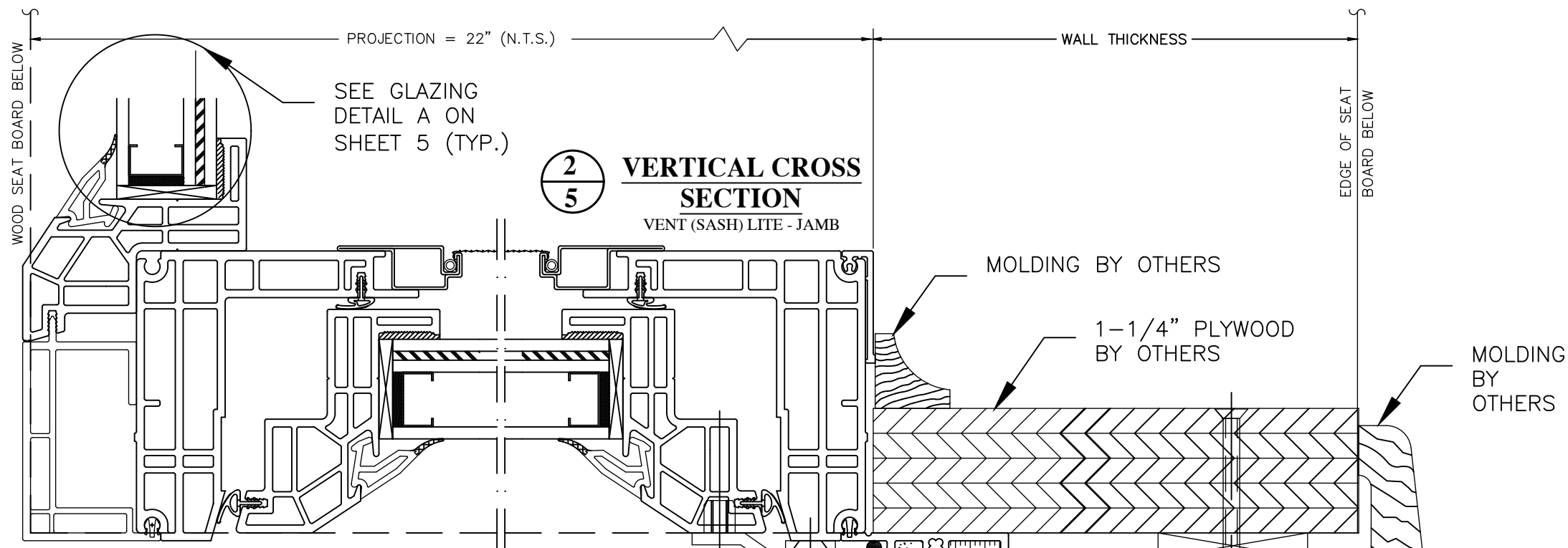
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| PROJECT NO. ACE-2020-126 |  |  |  |  | BY          |
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| VENTANA USA<br>6001 ENTERPRISE DRIVE<br>EXPORT, PA 15632 | TITLE: SERIES 2050/2051 GARDEN WINDOW (IMPACT)<br>SERIES 2051 STUCCO EXTERIOR FINISH INSTALLATION DETAILS | DRAWN BY: RJA<br>SCALE: N.T.S.<br>REV: --- | DATE: 10/19/20<br>DRAWING NO: ACE0003<br>SHEET: 4 OF 5 |
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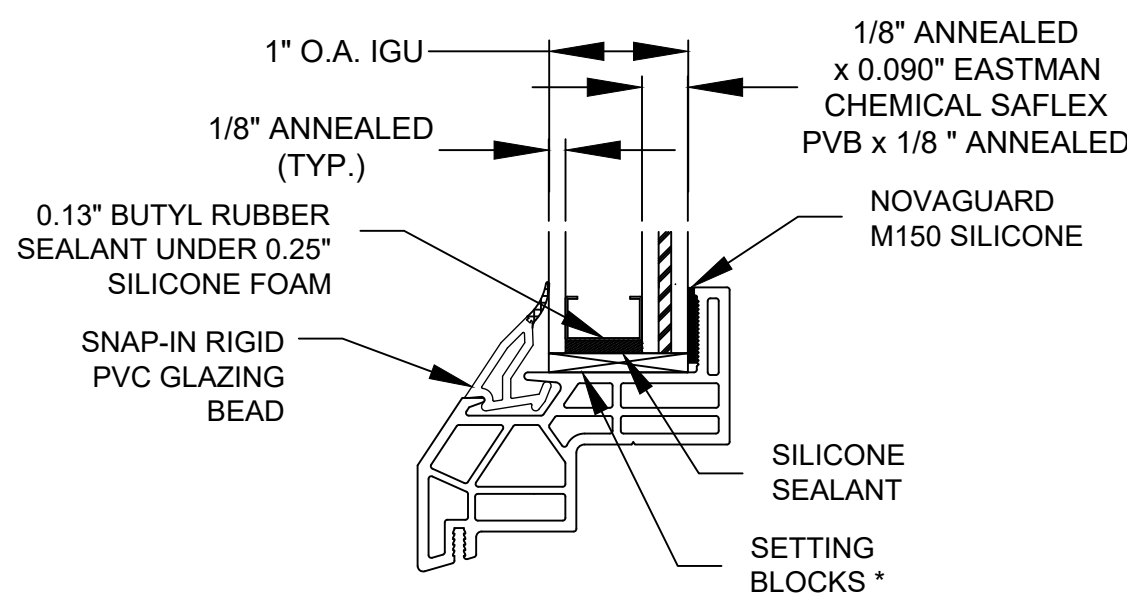
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**1  
5** **VERTICAL CROSS SECTION**  
VENT LITE - CORNER POST



**GLAZING DETAIL A**

\* A MINIMUM OF TWO (2) NEOPRENE SETTING BLOCKS WITH 70 TO 90 SHORE A DUROMETER HARDNESS ARE REQUIRED AT BOTTOM (SILL) OF GLAZING LITES MORE THAN 3 FEET IN WIDTH.

PERIMETER SEALANT BY OTHERS  
SHEATHING (SHOWN) OR  
OTHER COVERING BY OTHERS  
EXTERIOR FINISH BY OTHERS

AS REQUIRED TO SECURE FLASH  
FLANGE TO SUPPORTING SUBSTRATE.

INSTALLATION SUBSTRATE. SEE  
INSTALLATION NOTE 12 FOR  
SUBSTRATE REQUIREMENTS.

INSTALLATION ANCHOR. SEE INSTALLATION NOTES 5, 6 &  
7 FOR ANCHOR REQUIREMENTS. ANCHORS INSTALLED 6"  
FROM CORNERS AND 12-3/4" ON CENTER.

# SERIES 2051 GARDEN WINDOW STUCCO EXTERIOR FINISH INSTALLATION

|                          |  |  |  |  |      |    |
|--------------------------|--|--|--|--|------|----|
| PROJECT NO. ACE-2020-126 |  |  |  |  | DATE | BY |
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|----------------------------------------------------------|--------|-------|----------------------------------------------------------------------------------------------------|--------------|---------|
| VENTANA USA<br>6001 ENTERPRISE DRIVE<br>EXPORT, PA 15632 |        |       | SERIES 2050/2051 GARDEN WINDOW (IMPACT)<br>SERIES 2051 STUCCO EXTERIOR FINISH INSTALLATION DETAILS |              |         |
| DRAWN BY:                                                | RJA    | DATE: | 10/19/20                                                                                           | DRAWING NO.: | ACE0003 |
| SCALE:                                                   | N.T.S. | REV:  | ---                                                                                                | SHEET:       | 5 OF 5  |
|                                                          |        |       | PH: 724-325-3400 FAX: 724-327-4540                                                                 |              |         |

Robert J. Amoruso, P.E.  
Florida P.E. No. 49752

Digitally signed  
by Robert J  
Amoruso  
Date: 2020.12.03  
11:37:51 -05'00'

12472 LAKE UNDERHILL RD.  
SUITE NO. 148  
ORLANDO, FL 32828  
robert.amoruso@comcast.net