

# LINEA ROSSA WINDOWS AND DOORS

## LRWAD-210 SINGLE HUNG WINDOW

### (HVHZ)(IMPACT)

LINEA ROSSA®  
WINDOWS & DOORS

1850 NW. 84TH AVE., STE. 114  
DORAL, FL 33126  
PH: (305)815-8797

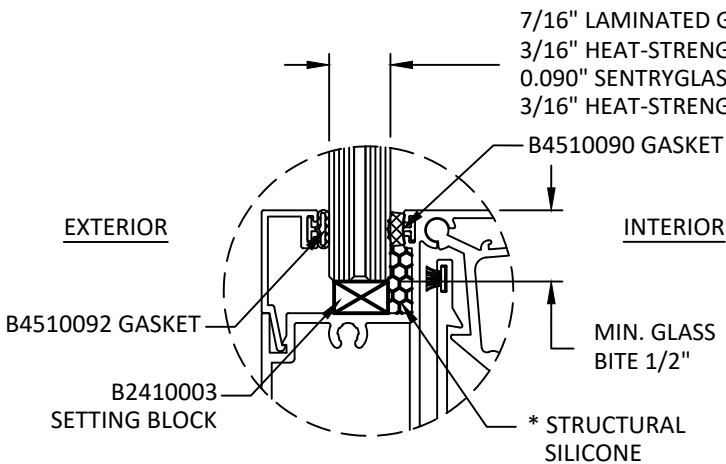
#### GENERAL NOTES:

- THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT EDITION FLORIDA BUILDING CODE (FBC), **INCLUDING** HVHZ AND HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING:
  - TAS 201-94
  - TAS 202-94
  - TAS 203-94
- ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY, 2X FRAMING, AND METAL 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 IN NON-HVHZ AREAS.
- APPROVED IMPACT PROTECTIVE SYSTEM **IS NOT REQUIRED** ON THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE.
- WINDOW FRAME MATERIAL: ALUMINUM 6063-T6
- GLASS MEETS THE REQUIREMENTS OF ASTM E 1300 GLASS CHARTS. SEE SHEET 1 FOR GLAZING DETAILS.

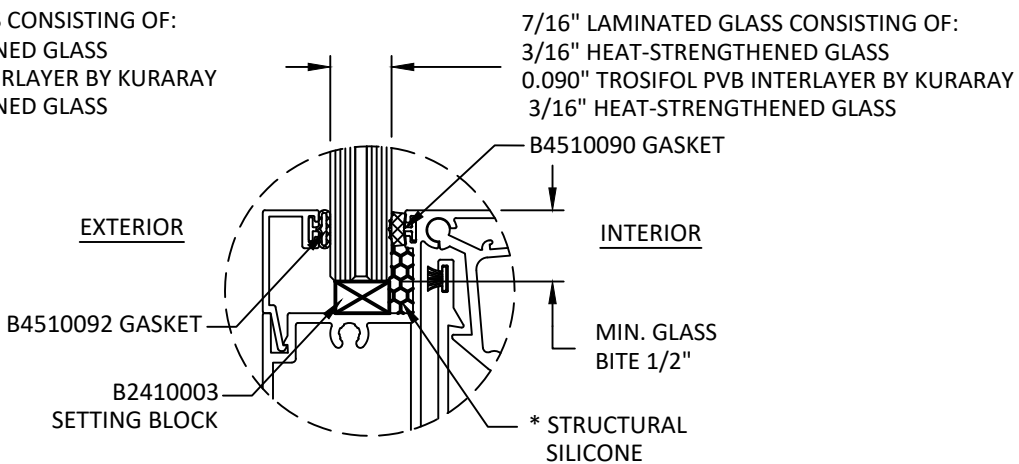
| MAX. WINDOW FRAME SIZE |        | CONFIG. | DESIGN PRESSURE | INTEGRAL MULLION | MISSILE IMPACT RATING        |
|------------------------|--------|---------|-----------------|------------------|------------------------------|
| WIDTH                  | HEIGHT |         |                 |                  |                              |
| 42"                    | 90"    | O/X     | +90/-90 PSF     | N/A              | LARGE & SMALL MISSILE IMPACT |
| 42"                    | 90"    | OX / OX | +65/-65 PSF     | LIGHT            |                              |
| 42"                    | 90"    | OX / OX | +90/-90 PSF     | HEAVY            |                              |

NOTE: FOR "OX / OX" CONFIGURATIONS THE MINIMUM DESIGN PRESSURE BETWEEN THE TABLES ON SHEETS 2 & 3 SHALL BE APPLIED TO THE ENTIRE SYSTEM.

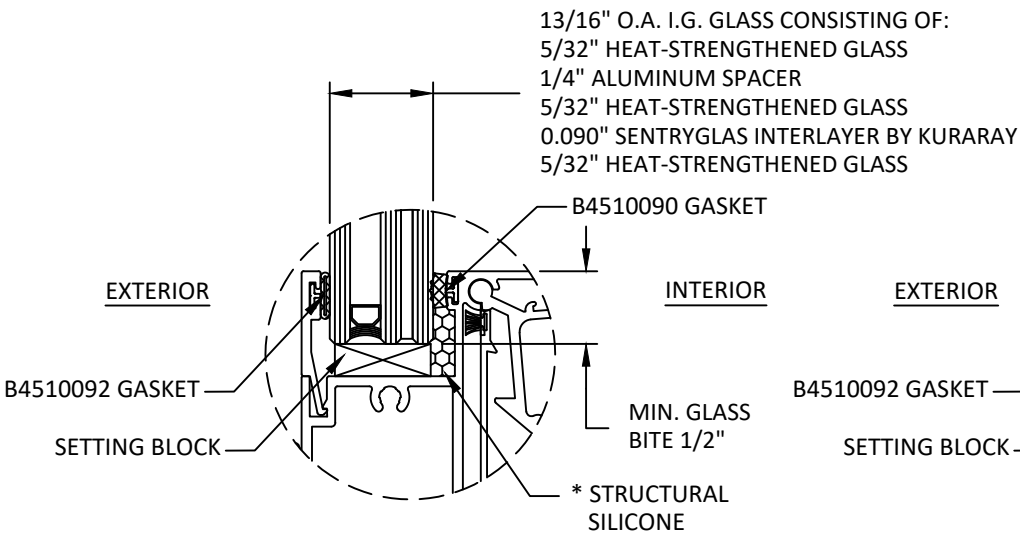
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|-------------------|----------------------------------------------------|
| SHEET             | SHEET DESCRIPTION                                  |
| 1                 | GENERAL NOTES & GLAZING DETAILS                    |
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| 5                 | HORIZONTAL SECTIONS                                |
| 6                 | HORIZONTAL SECTIONS                                |
| 7                 | INSTALLATION NOTES & ANCHOR DETAILS                |



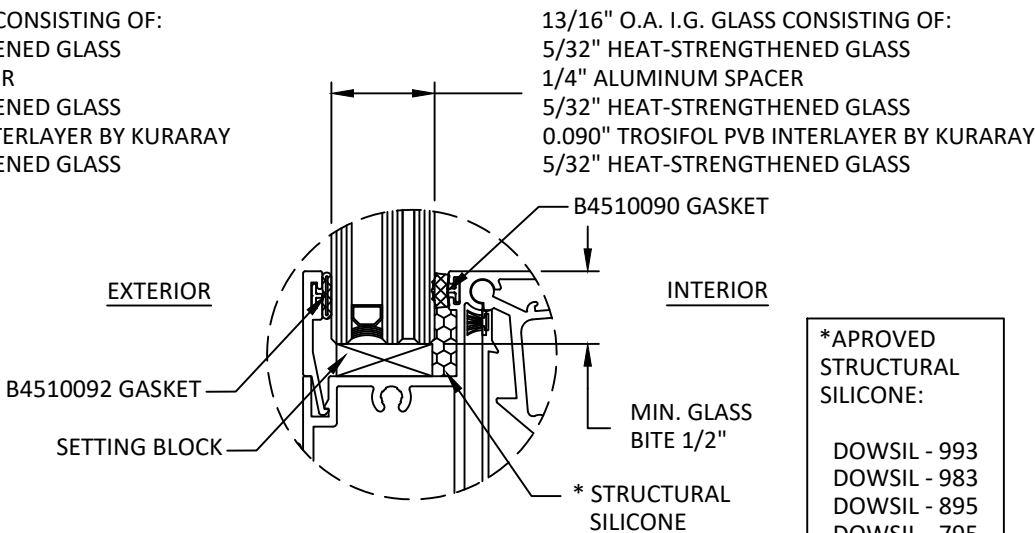
GLAZING DETAIL 1



GLAZING DETAIL 2



GLAZING DETAIL 3



GLAZING DETAIL 4

#### GLAZING NOTES:

- GLASS TYPE COMPLIES WITH ASTM E1300 REQUIREMENTS. TEMPER AND SAFETY GLAZING REQUIREMENTS SHALL BE REVIEWED ON A SITE SPECIFIC BASIS.
- SACRIFICIAL LITE SHALL BE TEMPERED WHEN INSTALLED 30' OR HIGHER ABOVE GRADE IN HVHZ.
- SETTING BLOCK DUROMETER HARDNESS OF 70-90 (SHORE A) AS REFERENCED IN FBC CHAPTER 24.
- TWO APPROVED SETTING BLOCKS SHALL BE USED FOR GLASS WIDER THAN 36" AS PER FBC CHAPTER 24.
- D.L.O. AND DESIGN PRESSURES MAY NOT EXCEED MAX VALUES IN DP TABLE ON SHEET 1 AND ELEVATIONS ON SHEETS 2 & 3.

\*APROVED  
STRUCTURAL  
SILICONE:

DOWSIL - 993  
DOWSIL - 983  
DOWSIL - 895  
DOWSIL - 795

TITLE: LRWAD-210 SINGLE HUNG WINDOW  
(HVHZ) (IMPACT)

GENERAL NOTES & GLAZING DETAILS

PREPARED BY: BUILDING DROPS, INC.

398 E. DANIA BEACH BLVD., STE. 338

DANIA BEACH, FL 33004

PH: (954)399-8478

FAX: (954)744-4738

WEB: www.buildingdrops.com



| REMARKS | BY | DATE |
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Digitally signed by Hermes E. Norero, P.E.  
Reason: I am approving this document  
Date: 2023.08.15 13:39:00 -04'00'



FL42284

DATE: 06.20.2023

DWG. BY:  
SH

CHK. BY:  
HFN

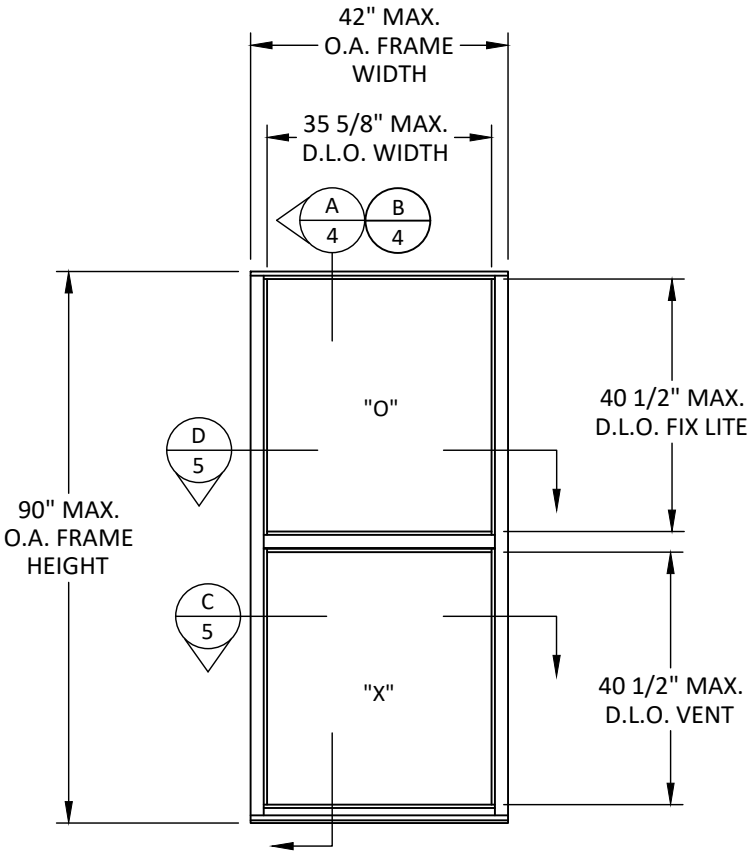
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DWG. #: LRA005

SHEET:

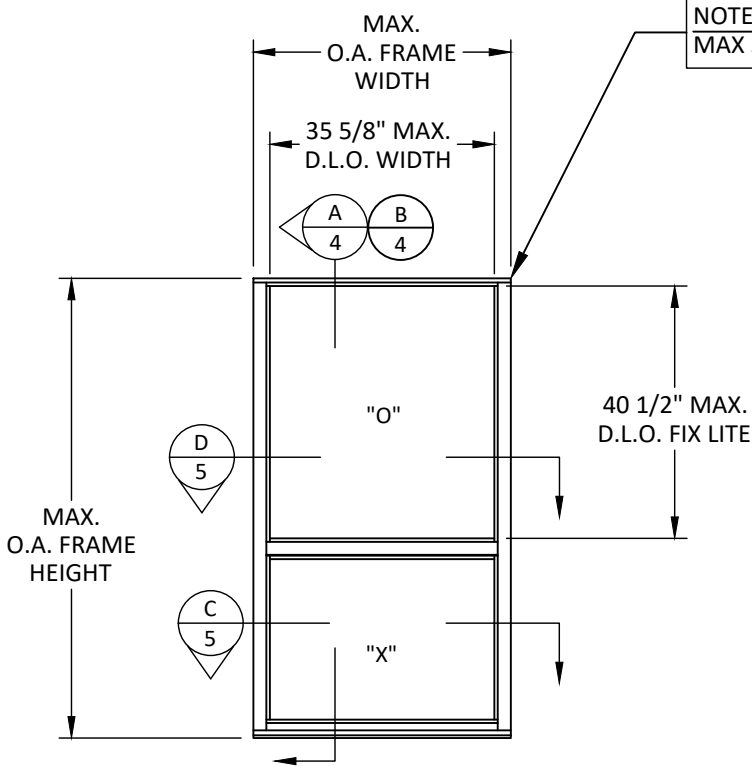
OF 7

1



ELEVATION

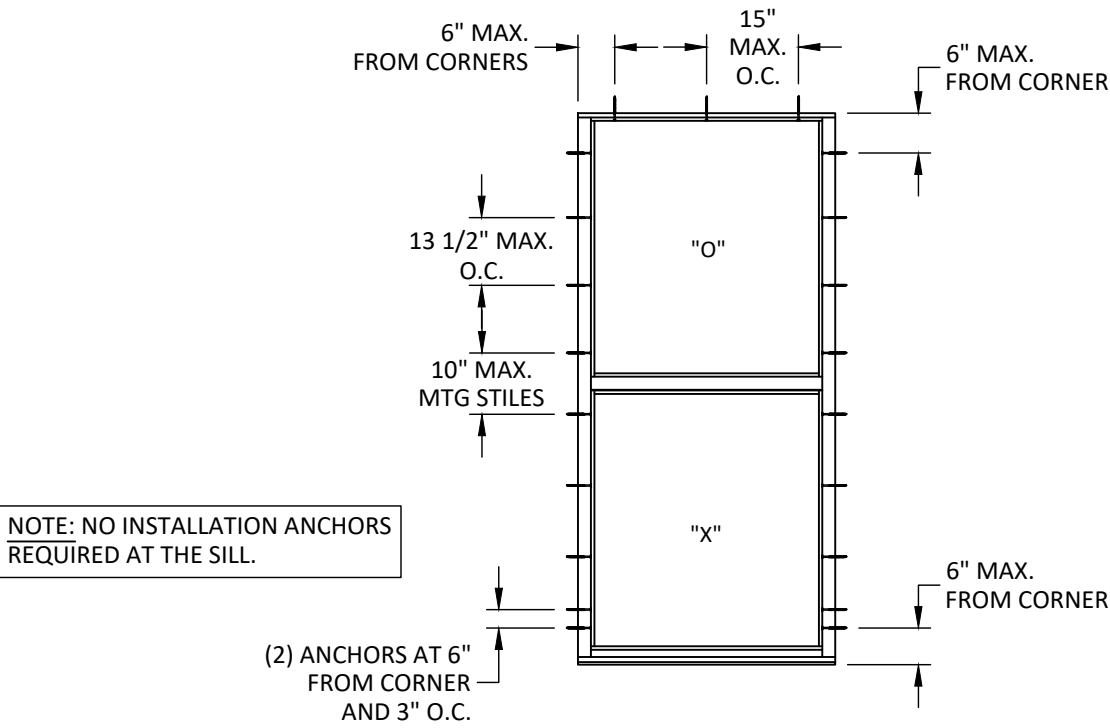
SINGLE HUNG WINDOW - EQUAL SASHES



ELEVATION

SINGLE HUNG WINDOW - NON-EQUAL SASHES

NOTE: UNEQUAL SASHES ARE LIMITED TO A MAX SASH SIZE OF 13 SQUARE FEET.



NOTE: NO INSTALLATION ANCHORS REQUIRED AT THE SILL.

ANCHOR LAYOUT

SINGLE-THROUGH FRAME - SINGLE HUNG WINDOW

| DESIGN PRESSURE TABLE (+/- PSF) |                    |                |
|---------------------------------|--------------------|----------------|
| WINDOW DIMENSIONS               |                    | GLAZING DETAIL |
| FRAME WIDTH (IN.)               | FRAME HEIGHT (IN.) | 1/2/3/4        |
| 24                              | 54                 | 90.0           |
| 30                              |                    | 90.0           |
| 36                              |                    | 90.0           |
| 42                              |                    | 90.0           |
| 48                              |                    | 78.8           |
| 54                              |                    | 70.0           |
| 60                              | 60                 | 70.0           |
| 66                              |                    | 70.0           |
| 24                              |                    | 90.0           |
| 30                              |                    | 90.0           |
| 36                              |                    | 90.0           |
| 42                              |                    | 90.0           |
| 48                              |                    | 78.8           |
| 54                              |                    | 70.0           |
| 60                              | 66                 | 63.0           |
| 24                              |                    | 90.0           |
| 30                              |                    | 90.0           |
| 36                              |                    | 90.0           |
| 42                              |                    | 90.0           |
| 48                              |                    | 78.8           |
| 54                              |                    | 70.0           |
| 24                              | 72                 | 90.0           |
| 30                              |                    | 90.0           |
| 36                              |                    | 90.0           |
| 42                              |                    | 90.0           |
| 48                              |                    | 78.8           |
| 54                              |                    | 70.0           |
| 24                              | 78                 | 90.0           |
| 30                              |                    | 90.0           |
| 36                              |                    | 90.0           |
| 42                              |                    | 90.0           |
| 48                              |                    | 78.8           |
| 54                              |                    | 70.0           |
| 24                              | 84                 | 90.0           |
| 30                              |                    | 90.0           |
| 36                              |                    | 90.0           |
| 42                              |                    | 90.0           |
| 48                              |                    | 78.8           |
| 54                              |                    | 70.0           |
| 24                              | 90                 | 90.0           |
| 30                              |                    | 90.0           |
| 36                              |                    | 90.0           |
| 42                              |                    | 90.0           |
| 48                              |                    | 78.8           |
| 54                              |                    | 70.0           |

LINEA ROSSA®  
WINDOWS & DOORS

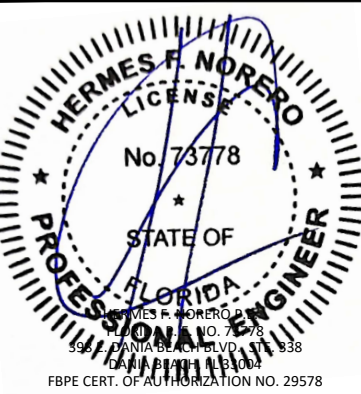
1850 NW. 84TH AVE., STE. 114  
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PH: (305)815-8797

TITLE: LRWAD-210 SINGLE HUNG WINDOW (HVHZ) (IMPACT)  
ELEVATIONS, ANCHOR LAYOUT, & DESIGN PRESSURE TABLE

PREPARED BY: BUILDING DROPS, INC.  
398 E. DANIA BEACH BLVD., STE. 338  
DANIA BEACH, FL 33004  
PH: (954)399-8478  
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| REMARKS | BY | DATE |
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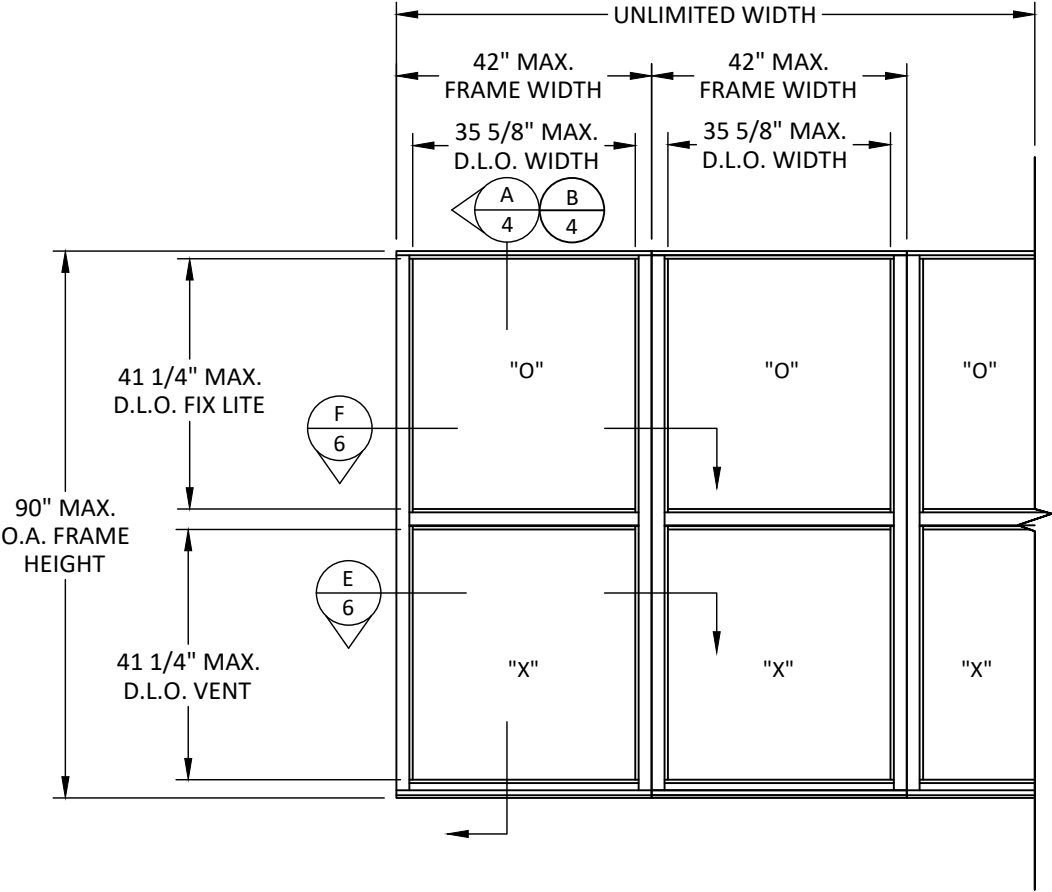
DATE: 06.20.2023

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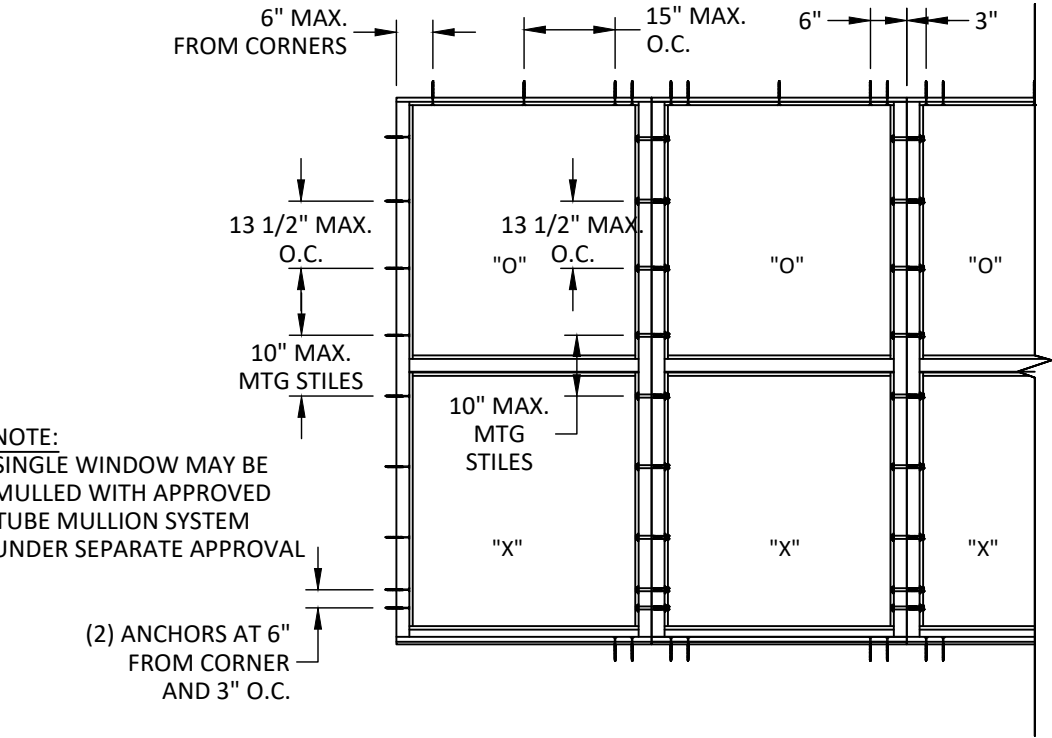
SCALE: NTS

DWG. #: LRA005

SHEET: 2 OF 7



ELEVATION  
MULLED - SINGLE HUNG WINDOW



NOTE:  
SINGLE WINDOW MAY BE  
MULLED WITH APPROVED  
TUBE MULLION SYSTEM  
UNDER SEPARATE APPROVAL

(2) ANCHORS AT 6"  
FROM CORNER  
AND 3" O.C.

NOTE: NO INSTALLATION ANCHORS  
REQUIRED AT THE SILL EXCEPT AT  
MULLION CLUSTER.

ANCHOR LAYOUT  
MULLED -THROUGH FRAME - SINGLE HUNG WINDOW

| DESIGN PRESSURE TABLE (+/- PSF) |                    |                     |                     |
|---------------------------------|--------------------|---------------------|---------------------|
| WINDOW DIMENSIONS               |                    | MULLION             |                     |
| TRIBUTARY WIDTH (IN.)           | FRAME HEIGHT (IN.) | LIGHT REINFORCEMENT | HEAVY REINFORCEMENT |
| 24                              | 54                 | 65.0                | 90.0                |
| 30                              |                    | 65.0                | 90.0                |
| 36                              |                    | 65.0                | 90.0                |
| 42                              |                    | 65.0                | 90.0                |
| 48                              |                    | 65.0                | 90.0                |
| 54                              |                    | 65.0                | 90.0                |
| 60                              |                    | 65.0                | 90.0                |
| 66                              |                    | 65.0                | 90.0                |
| 24                              | 60                 | 65.0                | 90.0                |
| 30                              |                    | 65.0                | 90.0                |
| 36                              |                    | 65.0                | 90.0                |
| 42                              |                    | 65.0                | 90.0                |
| 48                              |                    | 65.0                | 90.0                |
| 54                              |                    | 65.0                | 90.0                |
| 60                              |                    | 65.0                | 90.0                |
| 66                              |                    | 65.0                | 90.0                |
| 24                              | 66                 | 65.0                | 90.0                |
| 30                              |                    | 65.0                | 90.0                |
| 36                              |                    | 65.0                | 90.0                |
| 42                              |                    | 65.0                | 90.0                |
| 48                              |                    | 65.0                | 90.0                |
| 54                              |                    | 65.0                | 90.0                |
| 60                              |                    | 65.0                | 90.0                |
| 66                              |                    | 65.0                | 90.0                |
| 24                              | 72                 | 65.0                | 90.0                |
| 30                              |                    | 65.0                | 90.0                |
| 36                              |                    | 65.0                | 90.0                |
| 42                              |                    | 65.0                | 90.0                |
| 48                              |                    | 65.0                | 90.0                |
| 54                              |                    | 65.0                | 90.0                |
| 60                              |                    | 65.0                | 90.0                |
| 66                              |                    | 65.0                | 90.0                |
| 24                              | 78                 | 65.0                | 90.0                |
| 30                              |                    | 65.0                | 90.0                |
| 36                              |                    | 65.0                | 90.0                |
| 42                              |                    | 65.0                | 90.0                |
| 48                              |                    | 65.0                | 90.0                |
| 54                              |                    | 65.0                | 90.0                |
| 60                              |                    | 65.0                | 90.0                |
| 66                              |                    | 65.0                | 90.0                |
| 24                              | 84                 | 65.0                | 90.0                |
| 30                              |                    | 65.0                | 90.0                |
| 36                              |                    | 65.0                | 90.0                |
| 42                              |                    | 65.0                | 90.0                |
| 48                              |                    | 65.0                | 90.0                |
| 54                              |                    | 65.0                | 90.0                |
| 60                              |                    | 65.0                | 90.0                |
| 66                              |                    | 65.0                | 90.0                |
| 24                              | 90                 | 65.0                | 90.0                |
| 30                              |                    | 65.0                | 90.0                |
| 36                              |                    | 65.0                | 90.0                |
| 42                              |                    | 65.0                | 90.0                |
| 48                              |                    | 65.0                | 90.0                |
| 54                              |                    | 65.0                | 90.0                |
| 60                              |                    | 65.0                | 90.0                |
| 66                              |                    | 65.0                | 90.0                |

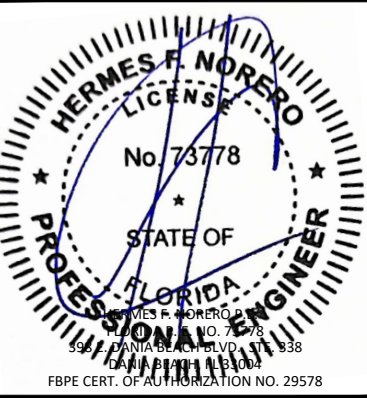
TITLE:  
LRWAD-210 SINGLE HUNG WINDOW  
(HVHZ) (IMPACT)  
ELEVATION, ANCHOR LAYOUT,  
& DESIGN PRESSURE TABLE

PREPARED BY: BUILDING DROPS, INC.  
398 E. DANIA BEACH BLVD., STE. 338  
DANIA BEACH, FL 33004  
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BUILDING DROPS

| REMARKS | BY | DATE |
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SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE  
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DATE: 06.20.2023

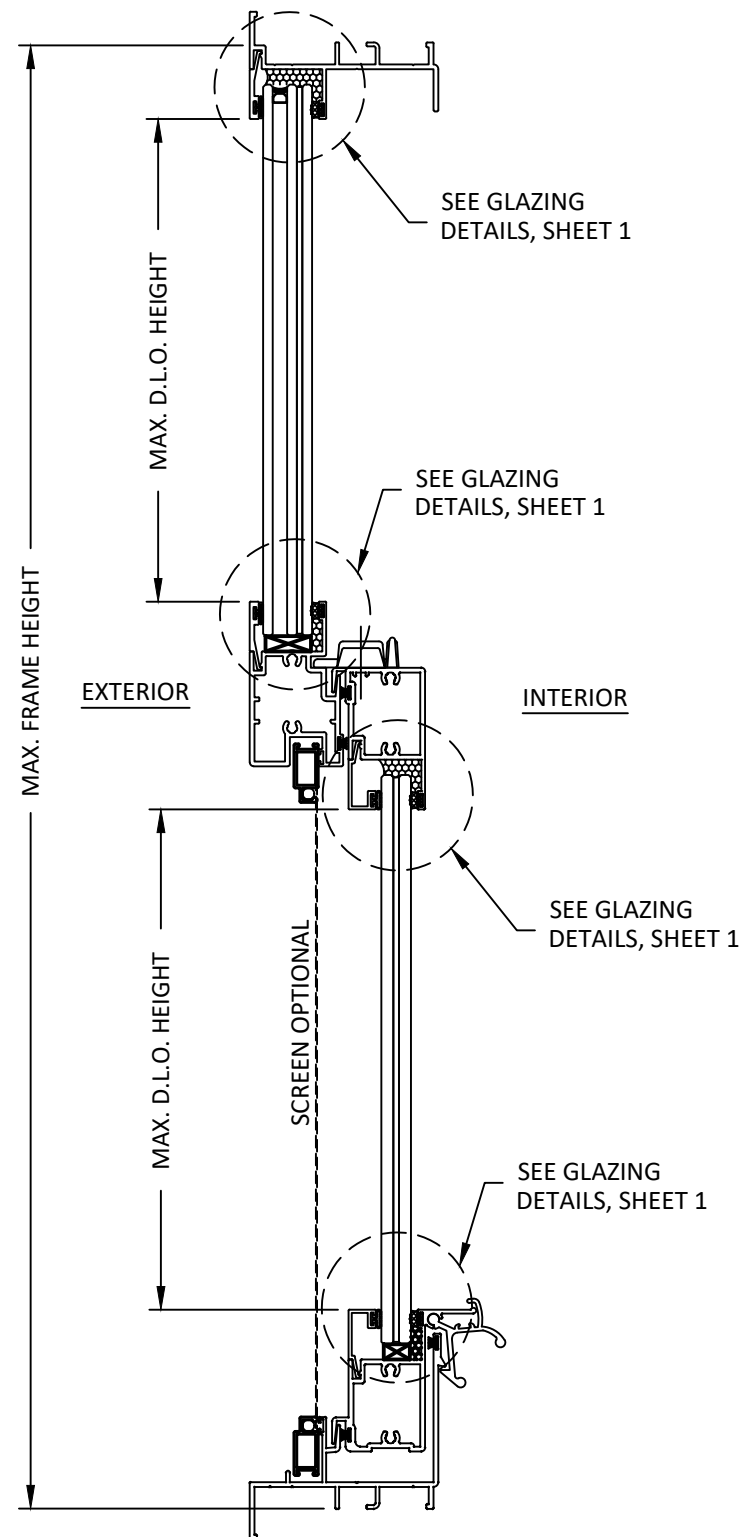
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SH

CHK. BY:  
HFN

SCALE: NTS

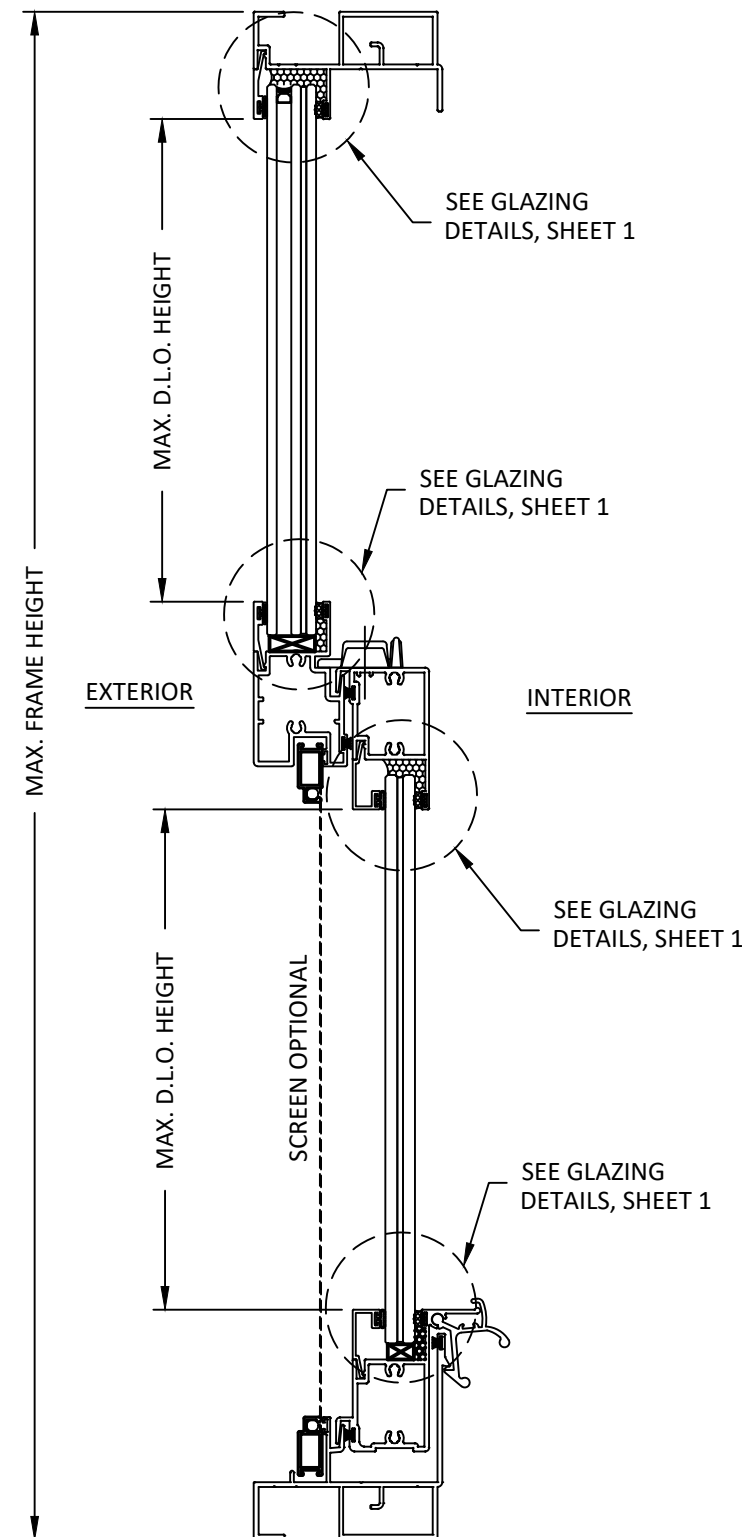
DWG. #: LRA005

SHEET: 3 OF 7



A  
4

**VERTICAL SECTION**  
SINGLE & MULLED SINGLE HUNG WINDOW



B  
4

**VERTICAL SECTION**  
SINGLE & MULLED SINGLE HUNG WINDOW  
ALTERNATE WINDOW FRAME

**LINEA ROSSA®**  
WINDOWS & DOORS

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PH: (305)815-8797

TITLE: **LRWAD-210 SINGLE HUNG WINDOW  
(HVHZ) (IMPACT)**

VERTICAL SECTIONS

PREPARED BY: **BUILDING DROPS, INC.**

398 E. DANIA BEACH BLVD., STE. 338

DANIA BEACH, FL 33004

PH: (954)399-8478

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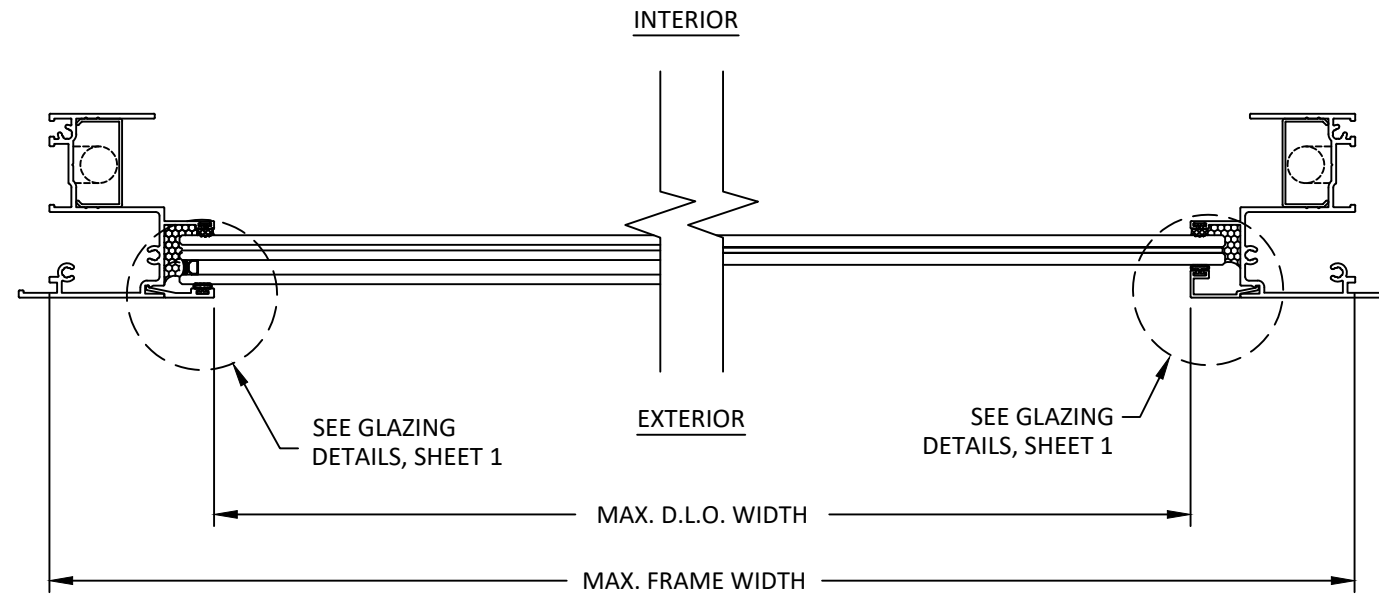
DWG. BY:  
**SH**

CHK. BY:  
**HFN**

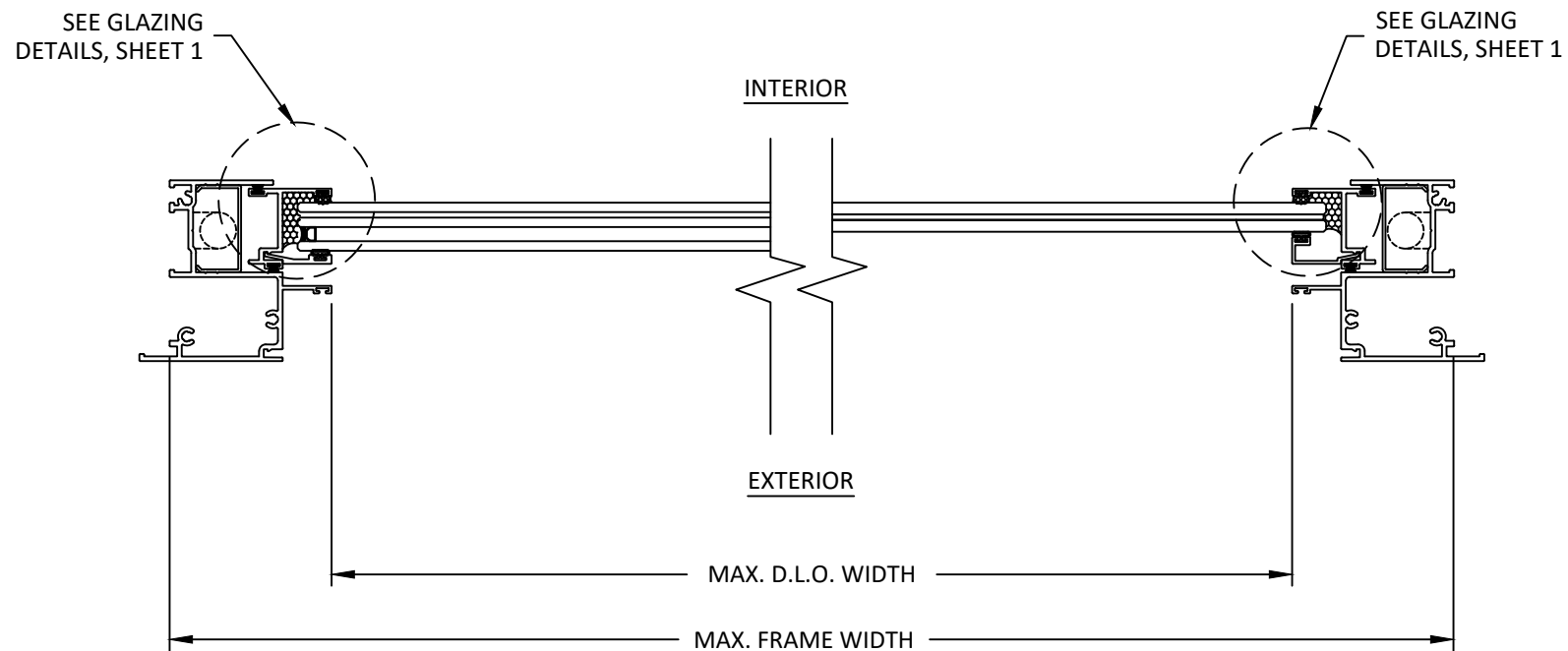
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DWG. #: **LRA005**

SHEET: **4** OF 7



**D**  
**5** **HORIZONTAL SECTION**  
SINGLE - SINGLE HUNG WINDOW FIX LITE



**C**  
**5** **HORIZONTAL SECTION**  
SINGLE - SINGLE HUNG WINDOW VENT

TITLE: **LRWAD-210 SINGLE HUNG WINDOW (HVHZ) (IMPACT)**

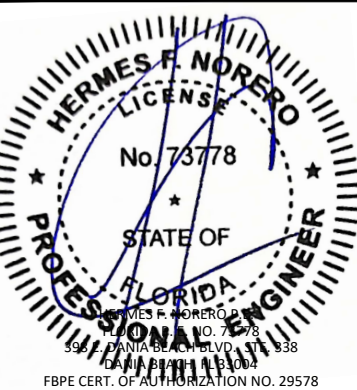
HORIZONTAL SECTIONS

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DATE: **06.20.2023**

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| DWG. BY:<br><b>SH</b> | CHK. BY:<br><b>HFN</b> |
|-----------------------|------------------------|

SCALE: **NTS**

DWG. #: **LRA005**

SHEET: **5** OF 7

TITLE: **LRWAD-210 SINGLE HUNG WINDOW (HVHZ) (IMPACT)**

HORIZONTAL SECTIONS

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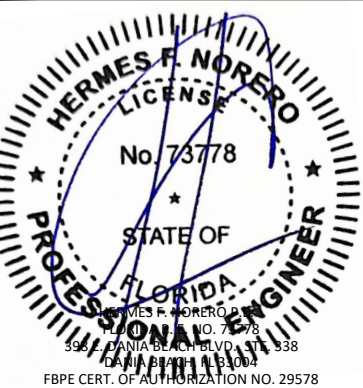
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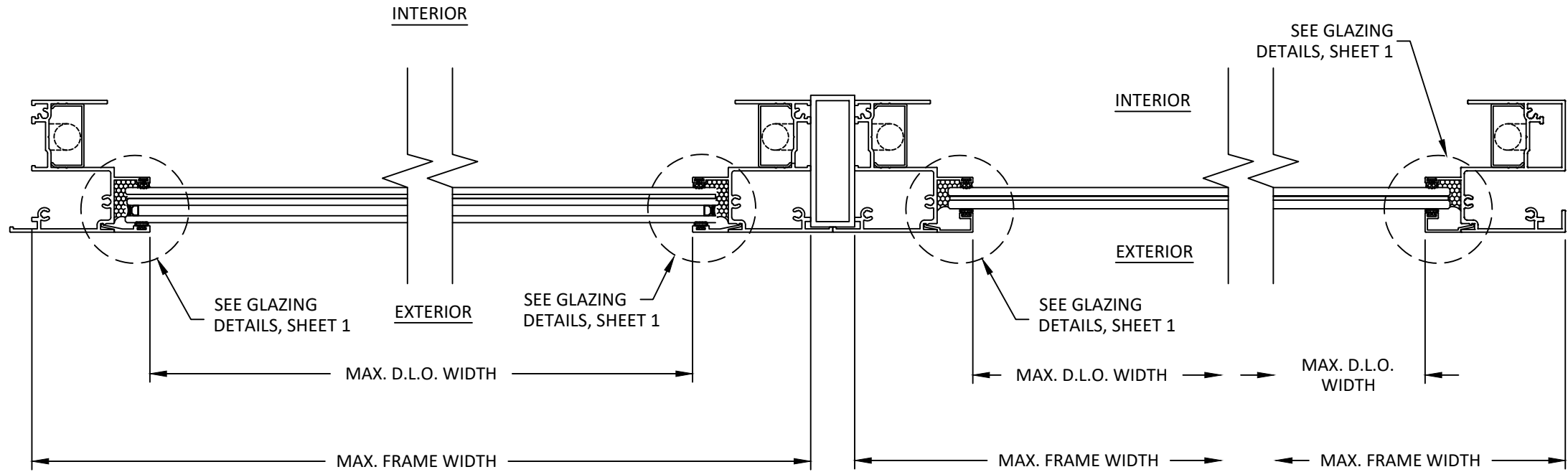
DATE: **06.20.2023**

DWG. BY: **SH** CHK. BY: **HFN**

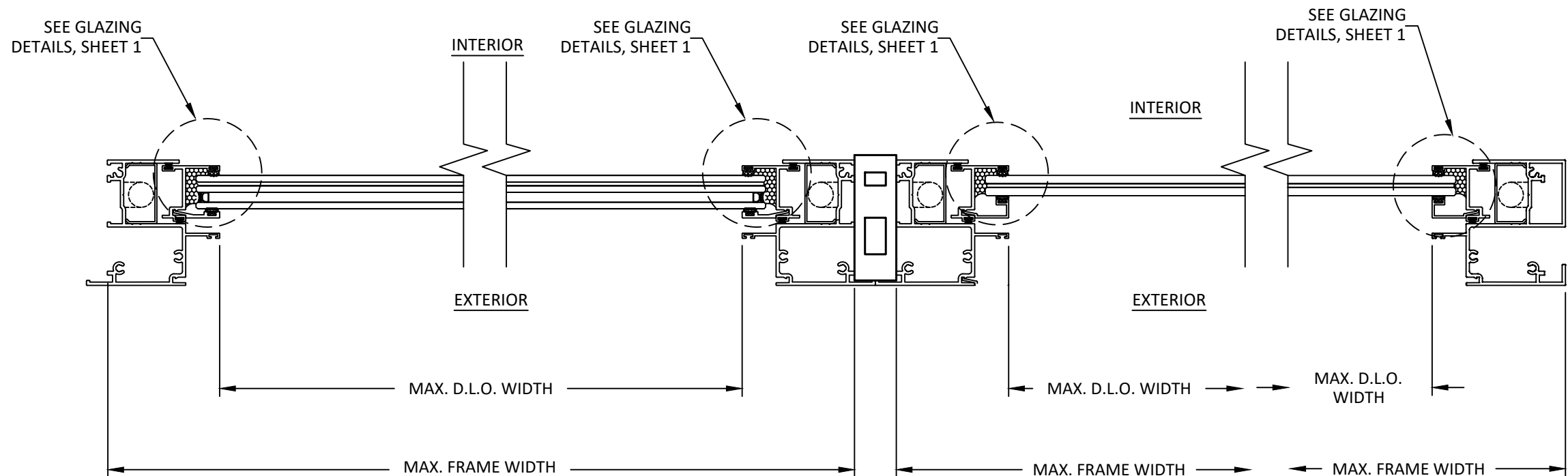
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DWG. #: **LRA005**

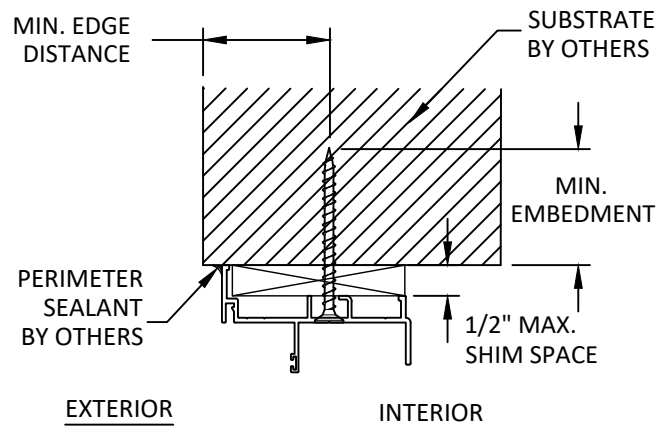
SHEET: **6** OF 7



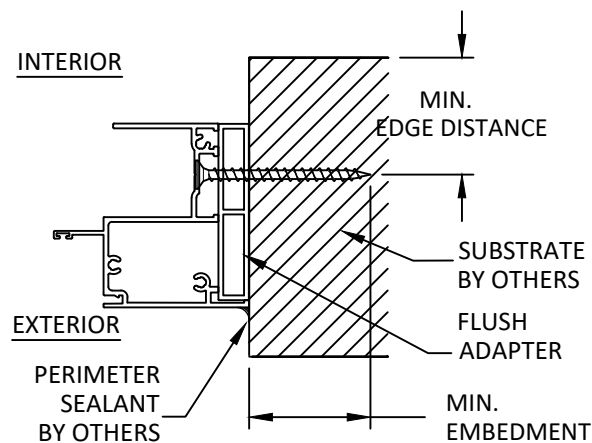
**F**  
**6** **HORIZONTAL SECTION**  
LIGHT MULL - SINGLE HUNG WINDOW FIXED LITE  
ALTERNATE WINDOW FRAME SHOWN ON RIGHT



**E**  
**6** **HORIZONTAL SECTION**  
HEAVY MULL - SINGLE HUNG WINDOW VENT  
ALTERNATE WINDOW FRAME SHOWN ON RIGHT



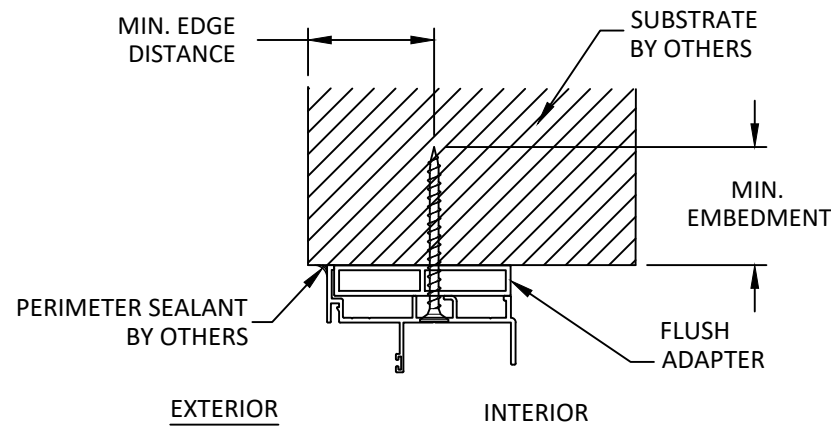
**A**  
**7** **ANCHOR DETAIL**  
THROUGH FRAME (HEAD)



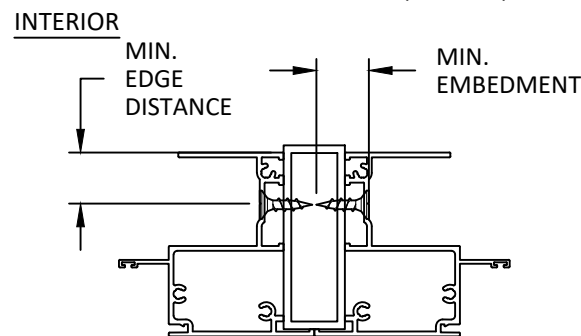
**D**  
**7** **ANCHOR DETAIL**  
THROUGH FRAME (JAMB)  
W/ FLUSH ADAPTOR  
ALTERNATE WINDOW FRAME (SIMILAR)

INSTALLATION NOTES:

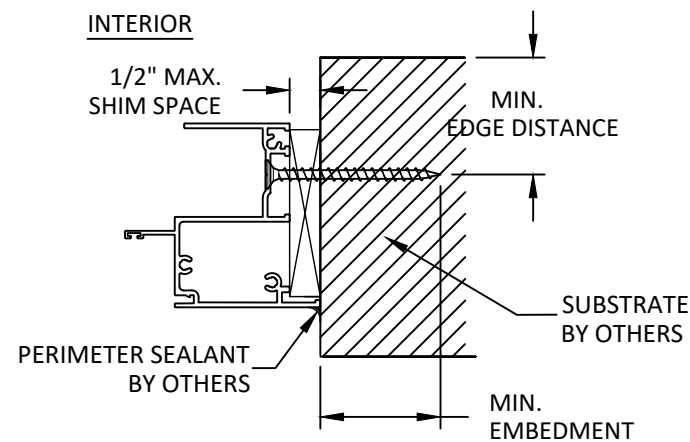
- ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN.
- THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION OF THE MAXIMUM SIZE LISTED.
- INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF  $\pm 1/2$  INCH THE DEPICTED LOCATION & SPACING IN THE ANCHOR LAYOUT DETAILS (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. SHIM WHERE SPACE OF 1/16 INCH OR GREATER OCCURS. SHIM(S) SHALL BE CONSTRUCTED OF HIGH DENSITY PLASTIC OR BETTER.
- FOR MASONRY OR CONCRETE OPENINGS, 1X WOOD BUCK MAY BE USED (OPTIONAL AS LONG AS THE MINIMUM EMBEDMENT AND EDGE DISTANCE REQUIREMENTS ARE STILL MET WITHIN THE CORRESPONDING HOST SUBSTRATE. SEE GENERAL NOTE #3 ON SHEET 1 FOR MORE INFORMATION.
- 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.
- FOR INSTALLATION ANCHORS ABOVE THE MEETING RAIL IN THE INTERIOR JAMB TRACK, USE FLAT HEAD ANCHORS.



**B**  
**7** **ANCHOR DETAIL**  
THROUGH FRAME (HEAD)  
W/ FLUSH ADAPTOR  
ALTERNATE WINDOW FRAME (SIMILAR)



**E**  
**7** **ANCHOR DETAIL**  
THROUGH FRAME (JAMB MULLION)  
LIGHT MULLION SHOWN, HEAVY MULLION SIMILAR



**C**  
**7** **ANCHOR DETAIL**  
THROUGH FRAME (JAMB)

| ANCHOR SCHEDULE |                |                                                                           |                                 |                                         |                    |
|-----------------|----------------|---------------------------------------------------------------------------|---------------------------------|-----------------------------------------|--------------------|
| METHOD          | SUBSTRATE TYPE | SUBSTRATE                                                                 | ANCHOR TYPE                     | MIN EMBEDMENT                           | MIN. EDGE DISTANCE |
| THROUGH FRAME   | A              | WOOD: MIN. SG = 0.55                                                      | 5/16" DEWALT ULTRACON           | 1.50"                                   | 1.25"              |
|                 | B              | METAL: 18 GAUGE STEEL, MIN. Fy = 33KSI<br>ALUMINUM .125" MIN, 6063-T5 MIN | 5/16" SELF-DRILLING SCREW GR. 5 | 3 THREADS MIN. PENETRATION BEYOND METAL | 0.75"              |
|                 | C              | CONCRETE: f'c=3000PSI                                                     | 5/16" DEWALT ULTRACON           | 1.75"                                   | 2.50"              |
|                 | D              | MASONRY: CMU per ASTM C90 MIN. 2000 PSI                                   |                                 | 1.75"                                   | 3.125"             |
| MULLIONS        | E              | ALUMINUM 6063-T6                                                          | 1 / 4" DEWALT DRILL-FLEX        | 3 THREADS MIN. PENETRATION BEYOND METAL | 0.75"              |

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TITLE: **LRAW-210 SINGLE HUNG WINDOW (HVHZ) (IMPACT)**

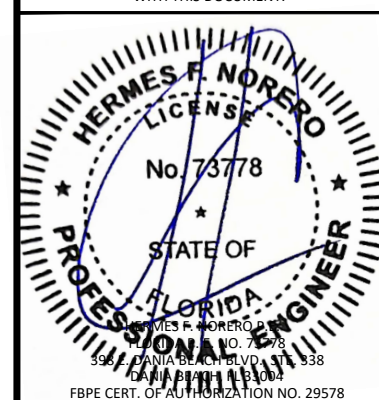
INSTALLATION NOTES & ANCHOR DETAILS

PREPARED BY: **BUILDING DROPS, INC.**  
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| REMARKS | BY | DATE |
|---------|----|------|
|         |    |      |
|         |    |      |
|         |    |      |
|         |    |      |

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.



**FL42284**

DATE: **06.20.2023**

DWG. BY:  
**SH**

CHK. BY:  
**HFN**

SCALE: **NTS**

DWG. #: **LRA005**

SHEET: **7** OF 7