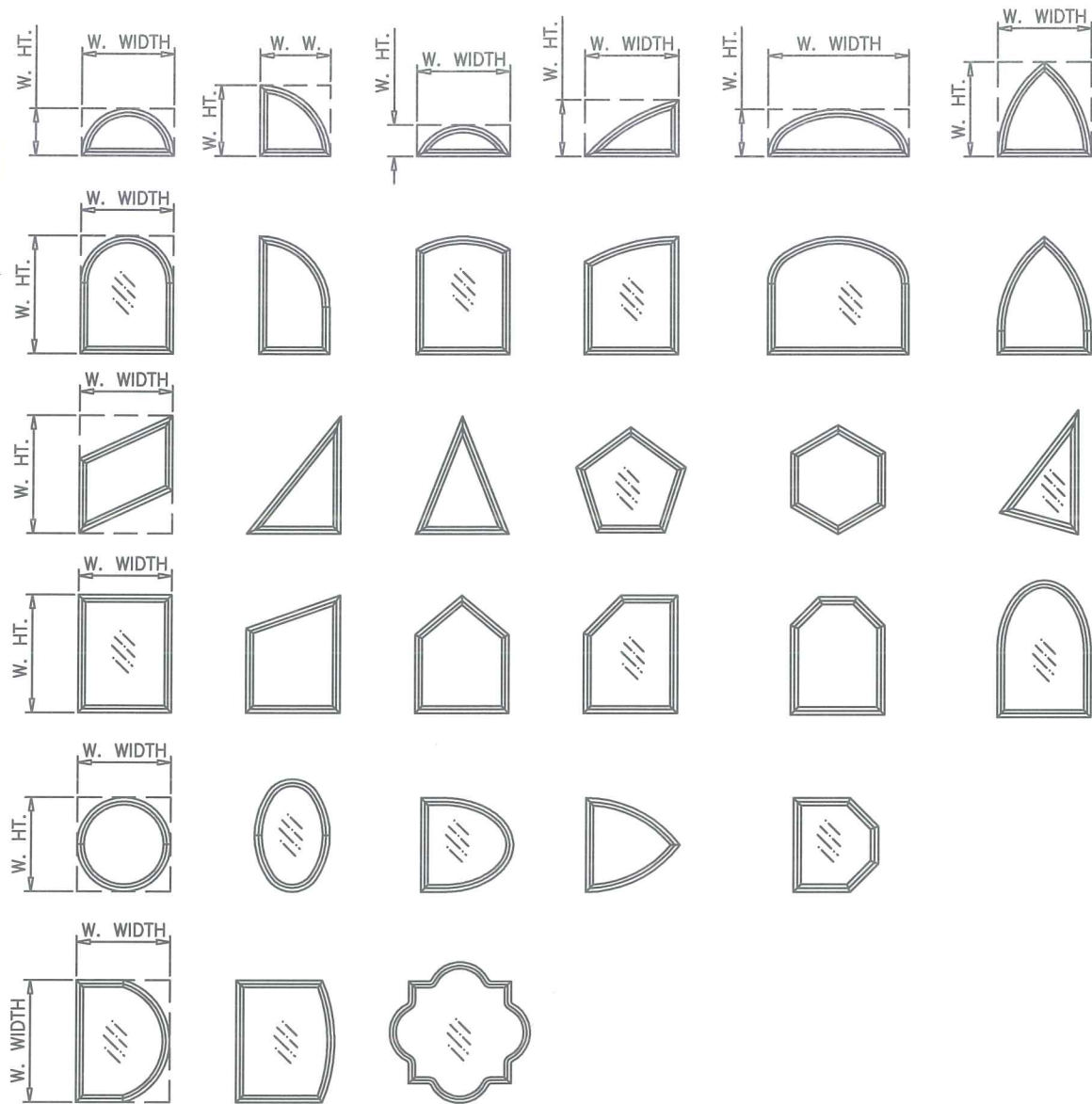
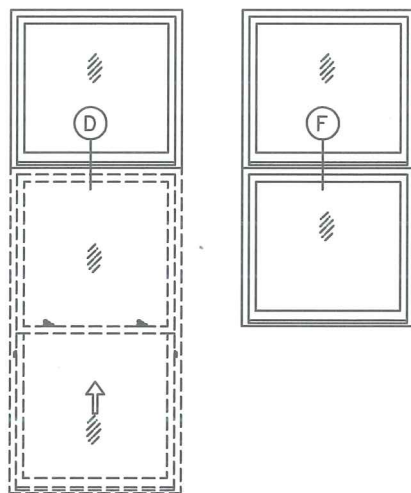
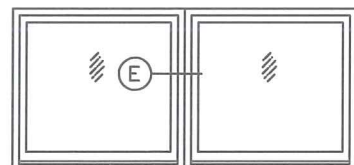




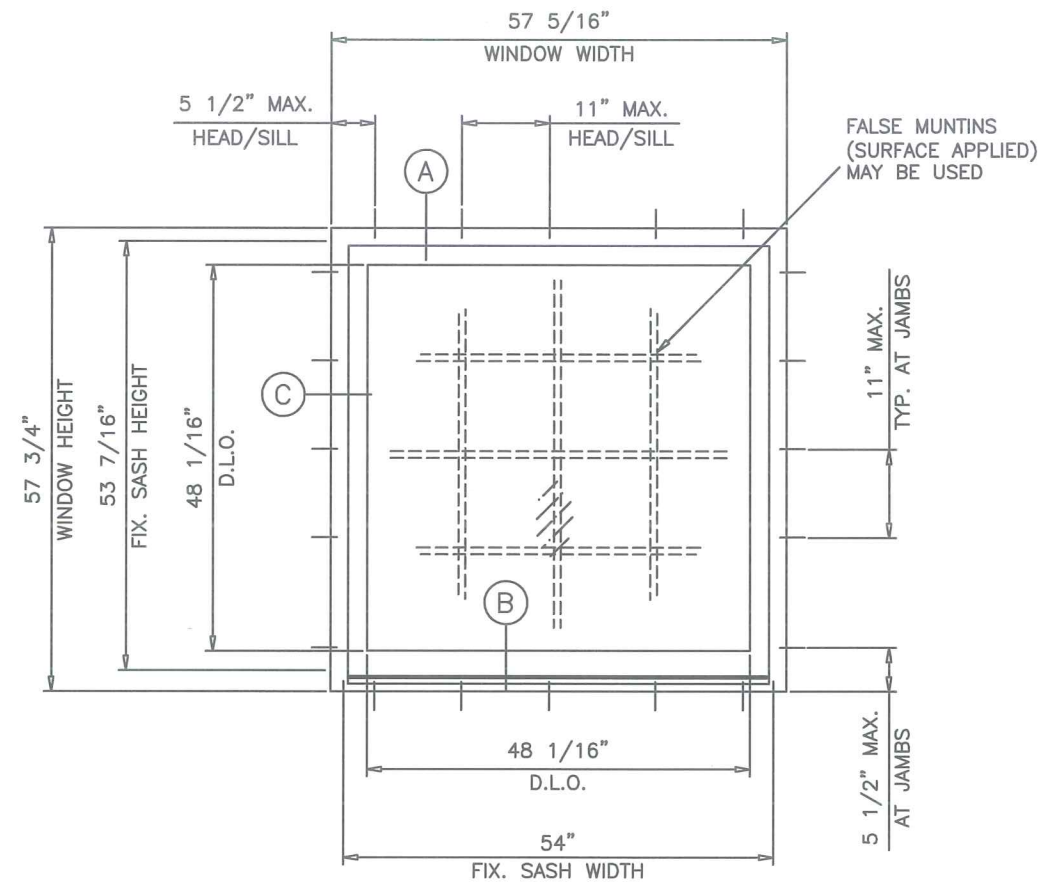
ALLOWABLE LOADS FOR ALTERNATE SHAPES AS SHOWN ABOVE OR SIMILAR CAN BE VERIFIED BY INSCRIBING WINDOW SHAPE WITHIN SQUARE OR RECTANGLE AS SHOWN IN DOTTED LINES AND OBTAINING ALLOWABLE LOADS FROM THOSE SHAPES.

THESE WINDOWS ARE RATED FOR LARGE MISSILE IMPACT. SHUTTERS ARE NOT REQUIRED.



#### APPROVED CONFIGURATIONS

APPROVAL APPLIES TO INDIVIDUAL UNITS OF FIXED WINDOWS, FIXED OVER FIXED WINDOWS OR FIXED OVER SINGLE HUNG WINDOWS.  
ALSO SIDE BY SIDE COMBINATIONS OF FIX. TO FIX. IN MODULES OF TWO OR MORE UNITS.



TYPICAL ELEVATION

#### SERIES S200 WOOD FIXED WINDOW

DESIGN LOAD RATING FOR THESE WINDOWS TO BE AS PER CHARTS SHOWN ON SHEET 2.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 5TH EDITION (2014) FLORIDA BUILDING CODE, INCLUDING HIGH VELOCITY HURRICANE ZONE PROVISIONS.

WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.

ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS, ANCHORS EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

ANCHORING OR LOADING CONDITIONS NOT SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROVAL.

A LOAD DURATION INCREASE IN ALLOWABLE STRESS IS USED IN DESIGN OF WOOD ANCHORS ONLY.

ALL WOOD NOT SEPARATED FROM AND/OR IN DIRECT CONTACT WITH CONCRETE AND MASONRY SHALL BE TREATED IN AN APPROVED PRESERVATIVE OR SHALL BE AN APPROVED DURABLE SPECIES PER FBC CHAPTER 23.

SCOTT WOLTERS  
FL PE# 62354  
WOLTERS ENGINEERING, INC.  
(COA# 27194)  
15211 97TH ROAD N  
WEST PALM BEACH, FL 33412

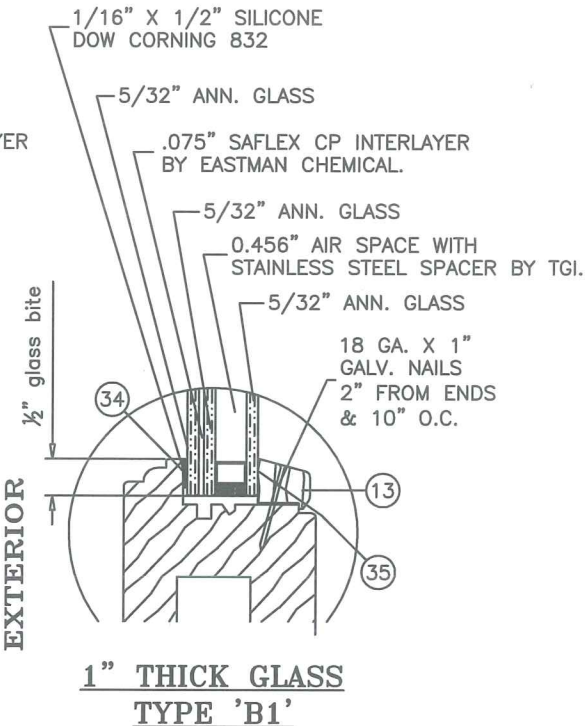
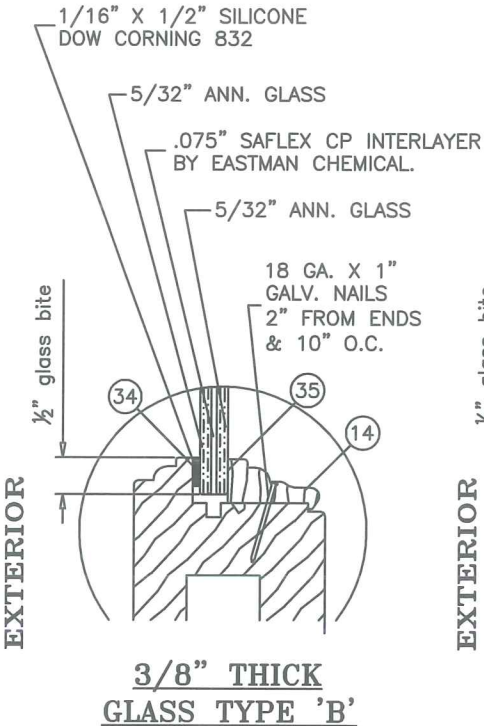
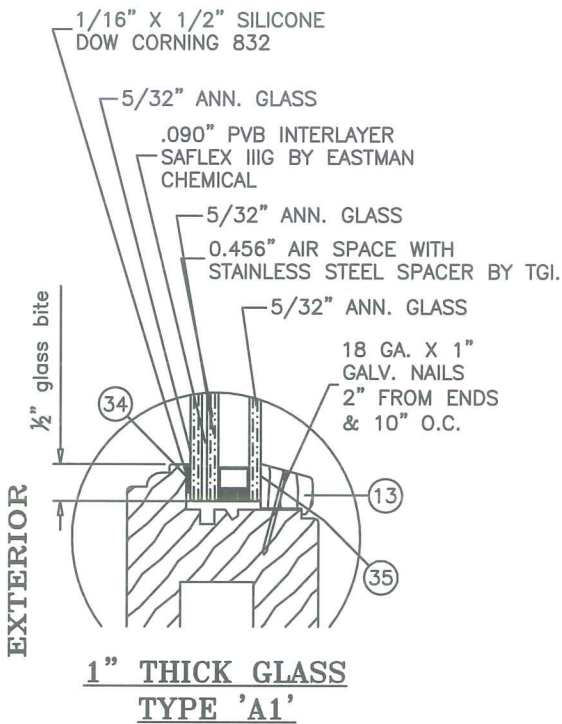
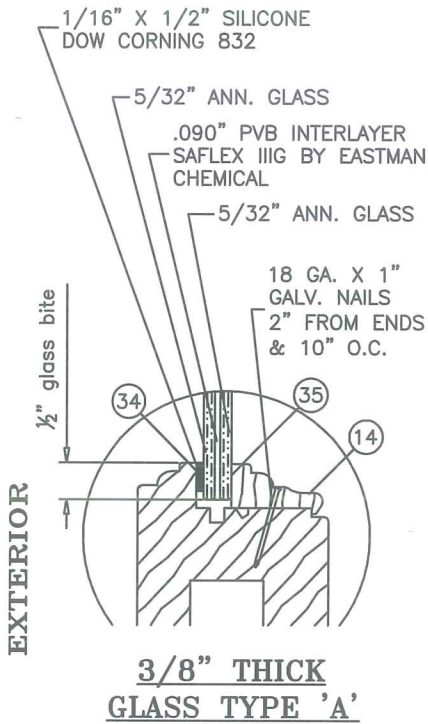
SCOTT WOLTERS  
No 62354  
OCT 20 2016  
STATE OF FLORIDA  
PROFESSIONAL ENGINEER

date: 02-14-06  
scale: 3/8" = 1"  
dr. by: S.M.  
chk. by:

drawing no.  
W06-12  
sheet 1 of 9

| DESIGN LOAD CAPACITY - PSF |         |                          |         |                            |         |
|----------------------------|---------|--------------------------|---------|----------------------------|---------|
| WINDOW DIMS.               |         | GLASS TYPES<br>'A' & 'B' |         | GLASS TYPES<br>'A1' & 'B1' |         |
| WIDTH                      | HEIGHT  | EXT.(+)                  | INT.(-) | EXT.(+)                    | INT.(-) |
| 26-1/2"                    | 34-1/4" | 60.0                     | 70.0    | 60.0                       | 70.0    |
| 32"                        |         | 60.0                     | 70.0    | 60.0                       | 70.0    |
| 37"                        |         | 60.0                     | 70.0    | 60.0                       | 70.0    |
| 42"                        |         | 60.0                     | 70.0    | 60.0                       | 70.0    |
| 48"                        |         | 60.0                     | 70.0    | 60.0                       | 70.0    |
| 53-1/8"                    |         | 60.0                     | 70.0    | 60.0                       | 70.0    |
| 57-5/16"                   |         | 60.0                     | 70.0    | 60.0                       | 70.0    |
| 26-1/2"                    | 46-1/4" | 60.0                     | 70.0    | 60.0                       | 70.0    |
| 32"                        |         | 60.0                     | 70.0    | 60.0                       | 70.0    |
| 37"                        |         | 60.0                     | 70.0    | 60.0                       | 70.0    |
| 42"                        |         | 60.0                     | 70.0    | 60.0                       | 70.0    |
| 48"                        |         | 60.0                     | 70.0    | 60.0                       | 70.0    |
| 53-1/8"                    |         | 60.0                     | 70.0    | 60.0                       | 70.0    |
| 57-5/16"                   |         | 60.0                     | 70.0    | 60.0                       | 70.0    |
| 26-1/2"                    | 57-3/4" | 60.0                     | 70.0    | 60.0                       | 70.0    |
| 32"                        |         | 60.0                     | 70.0    | 60.0                       | 70.0    |
| 37"                        |         | 60.0                     | 70.0    | 60.0                       | 70.0    |
| 42"                        |         | 60.0                     | 70.0    | 60.0                       | 70.0    |
| 48"                        |         | 60.0                     | 70.0    | 60.0                       | 70.0    |
| 53-1/8"                    |         | 60.0                     | 70.0    | 60.0                       | 70.0    |
| 57-5/16"                   |         | 60.0                     | 70.0    | 60.0                       | 70.0    |

GLASS CAPACITIES ON THIS CHART ARE BASED ON TESTING AND ASTM E1300-04.



GLAZING OPTIONS

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15211 97TH ROAD N  
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SCOTT WOLTERS  
No 62354  
STATE OF  
FLORIDA  
PROFESSIONAL ENGINEER

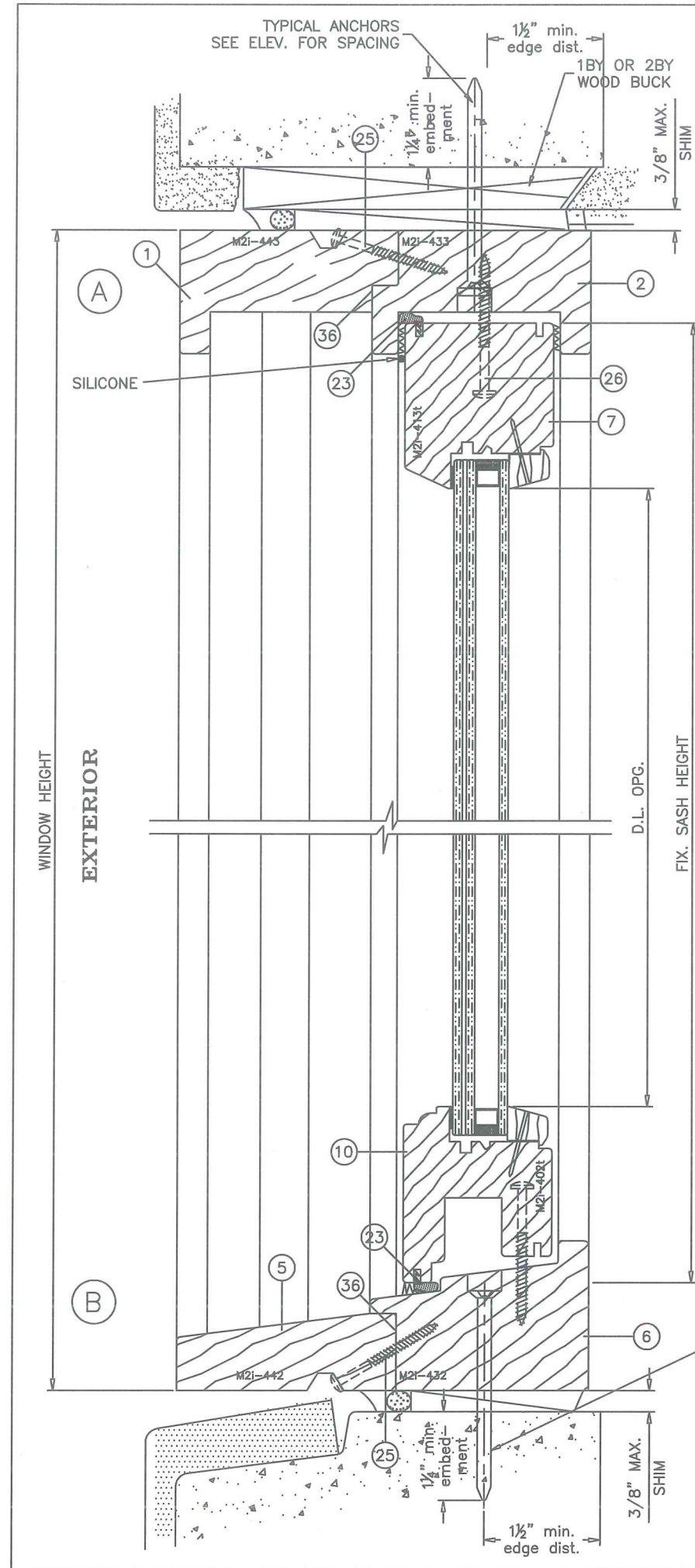
MQ windows  
1855 GRIFFIN Rd  
Suite A-271, DANIA  
FL 33004

revisions:

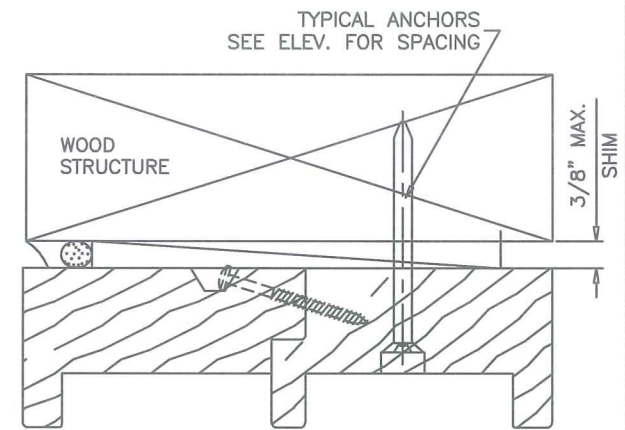
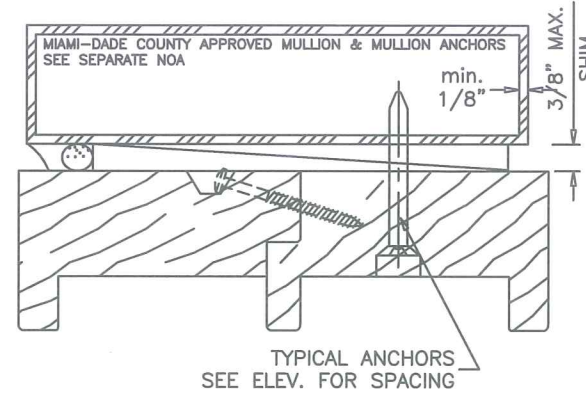
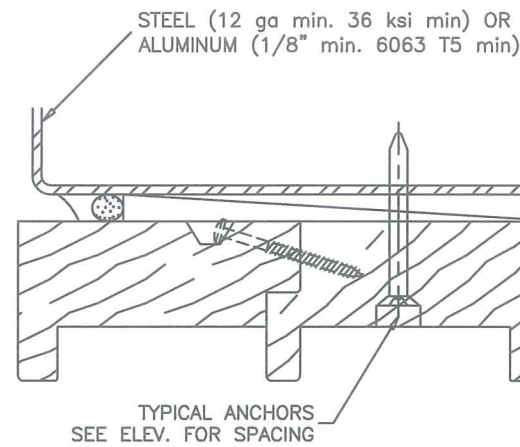
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|    |          |    |                           |
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|    |          |    |                           |

date: 02-14-06  
scale: 3/8" = 1"  
dr. by: S.M.  
chk. by:

drawing no.  
W06-12  
sheet 2 of 9



TYPICAL ANCHORS  
SEE ELEV. FOR SPACING



## TYPICAL ANCHORS

### ANCHORS THRU WINDOW FRAME

1/4" DIA. ELCO OR ITW TAPCONS

INTO 2BY WOOD BUCKS OR WOOD STRUCTURE  
1-3/8" MIN. PENETRATION INTO WOOD

THRU WOOD BUCKS INTO CONC. OR MASONRY  
1-1/4" MIN. EMBED INTO CONC. OR MASONRY

DIRECTLY INTO CONC. OR MASONRY  
1-1/4" MIN. EMBED INTO CONC. OR MASONRY

#14 SMS OR SELF DRILLING SCREWS  
INTO METAL

STEEL : 12 GA. MIN. (Fy = 36 KSI MIN.)

ALUMINUM : 1/8" THK. MIN. (6063-T5 MIN.)

(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

### ANCHORS THRU INSTALLATION ANGLE

#12 SMS

INTO 2BY WOOD BUCKS OR WOOD STRUCTURE  
1-3/8" MIN. PENETRATION INTO WOOD

1/4" DIA. ELCO OR ITW TAPCONS

THRU WOOD BUCKS INTO CONC. OR MASONRY  
1-1/4" MIN. EMBED INTO CONC. OR MASONRY

DIRECTLY INTO CONC. OR MASONRY  
1-1/4" MIN. EMBED INTO CONC. OR MASONRY

### TYPICAL EDGE DISTANCE

INTO CONCRETE AND MASONRY = 1-1/2" MIN.

INTO WOOD STRUCTURE = 5/8" MIN.

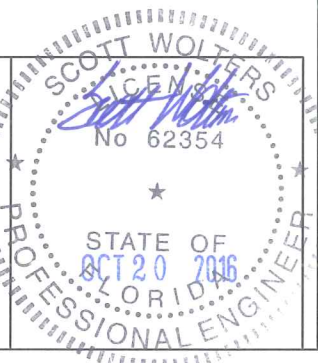
INTO METAL STRUCTURE = 5/8" MIN.

## NOTES:

- CLEAR SILICONE SEALANT AT SHOWN INTERFACES.
- BACKING ROD AND SEALANT AS REQUIRED.

WOOD BUCKS AND METAL STRUCTURE NOT BY MQ WDW.  
MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM  
AND TRANSFER THEM TO THE BUILDING STRUCTURE.

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SERIES S200 WOOD FIXED WDW.(L.M.I.)

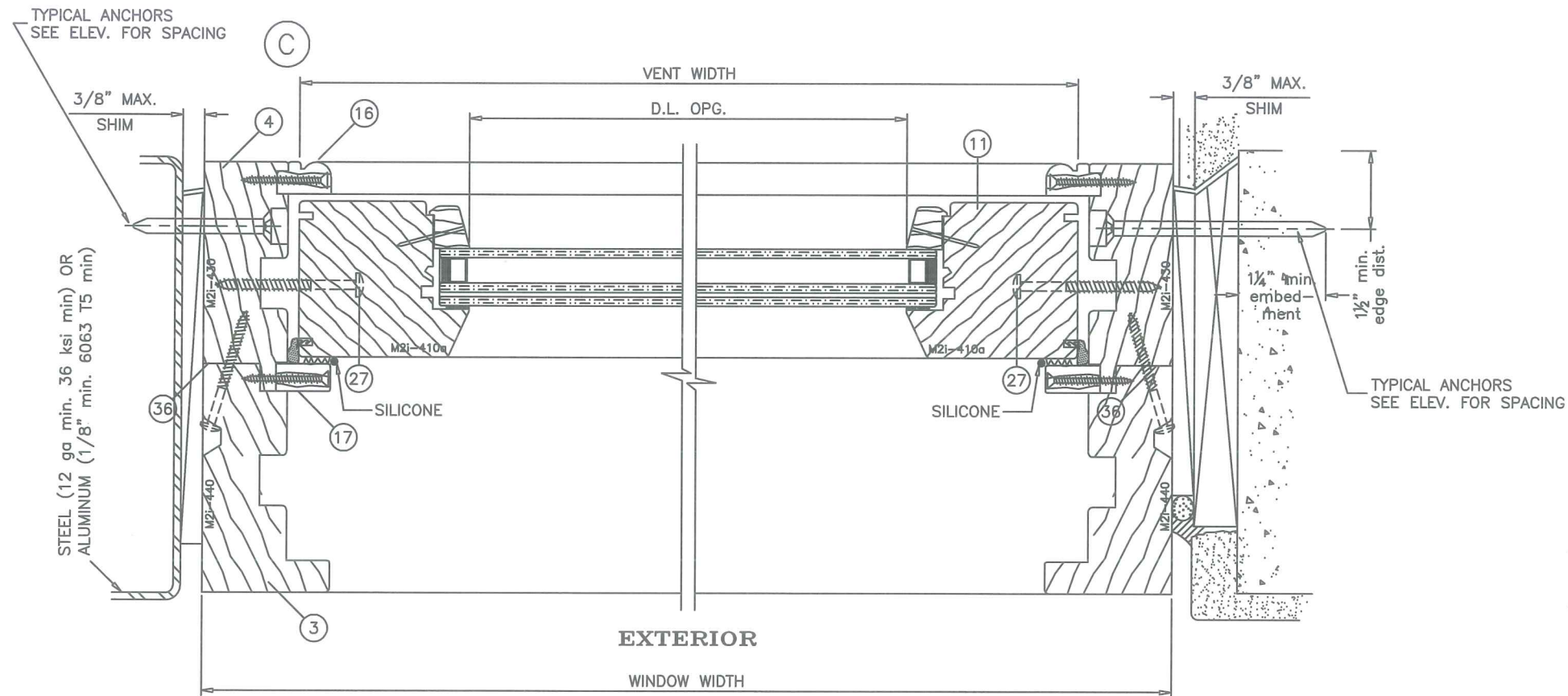
MQ windows  
1855 GRIFFIN Rd  
Suite A-271, DANIA  
FL 33004



revisions:  
no. date by description  
1 07/04/11 SM Minor Upgrade for renewal

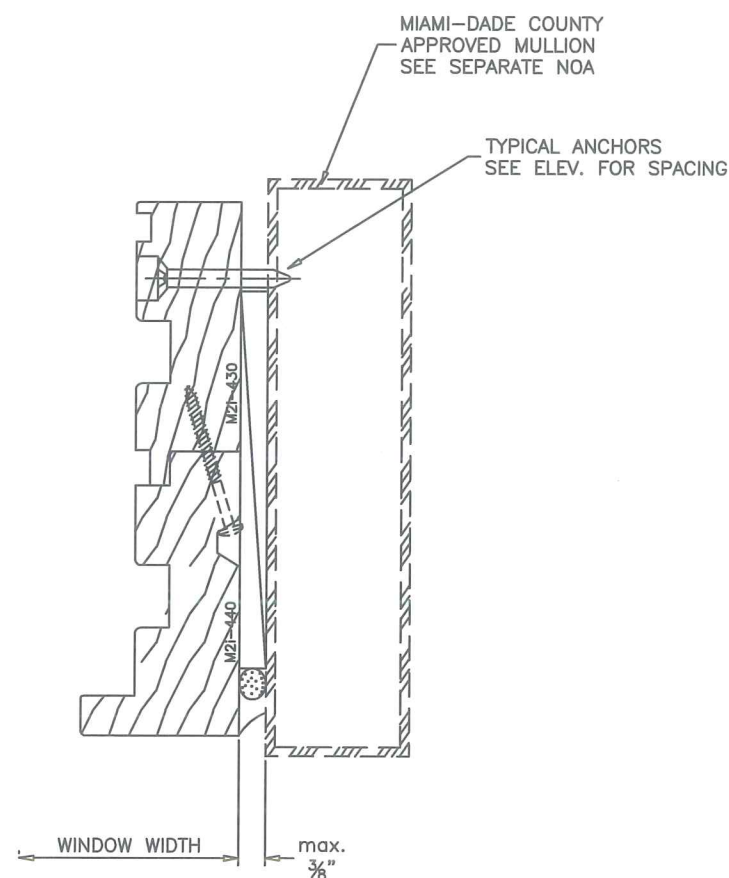
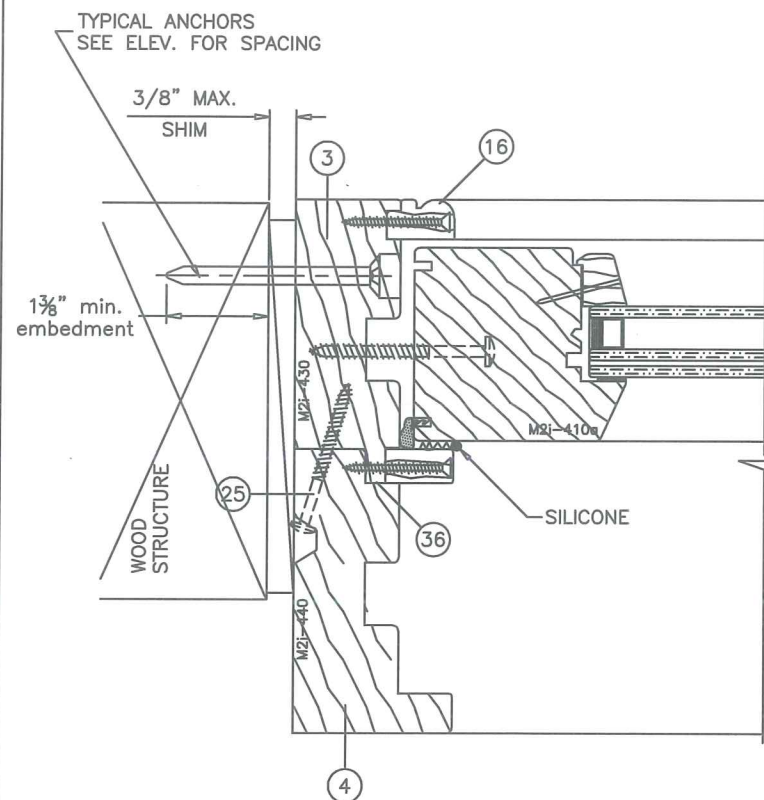
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scale: 3/8" = 1"  
dr. by: S.M.  
chk. by:

drawing no.  
W06-12  
sheet 3 of 9

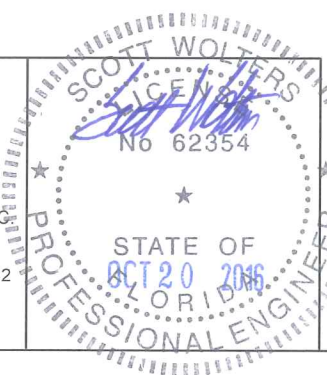


**NOTES:**

- CLEAR SILICONE SEALANT AT SHOWN INTERFACES.
- ⊘ BACKING ROD AND SEALANT AS REQUIRED.



SCOTT WOLTERS  
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(COA# 27194)  
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SERIES S200 WOOD FIXED WDW.(L.M.I.)

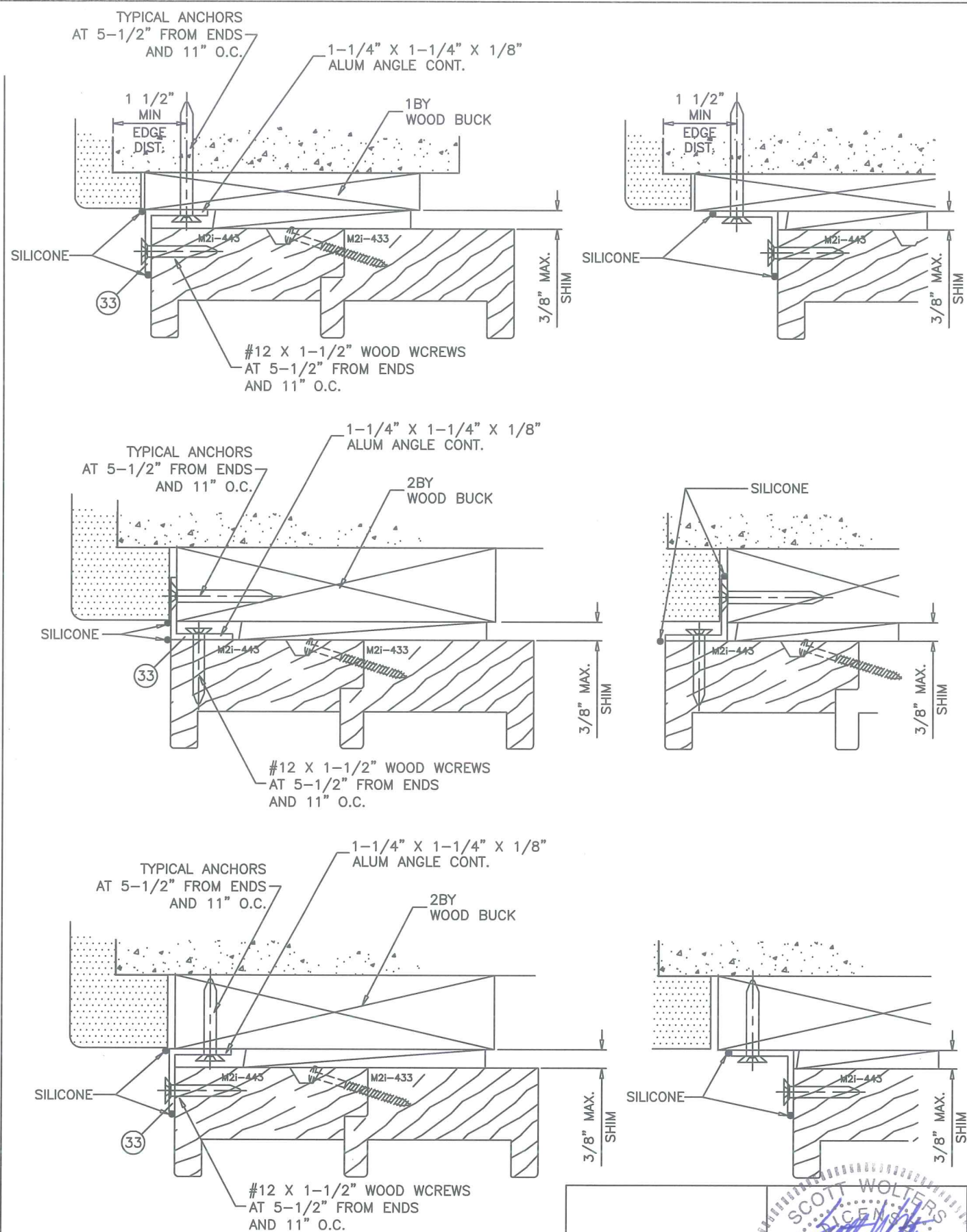
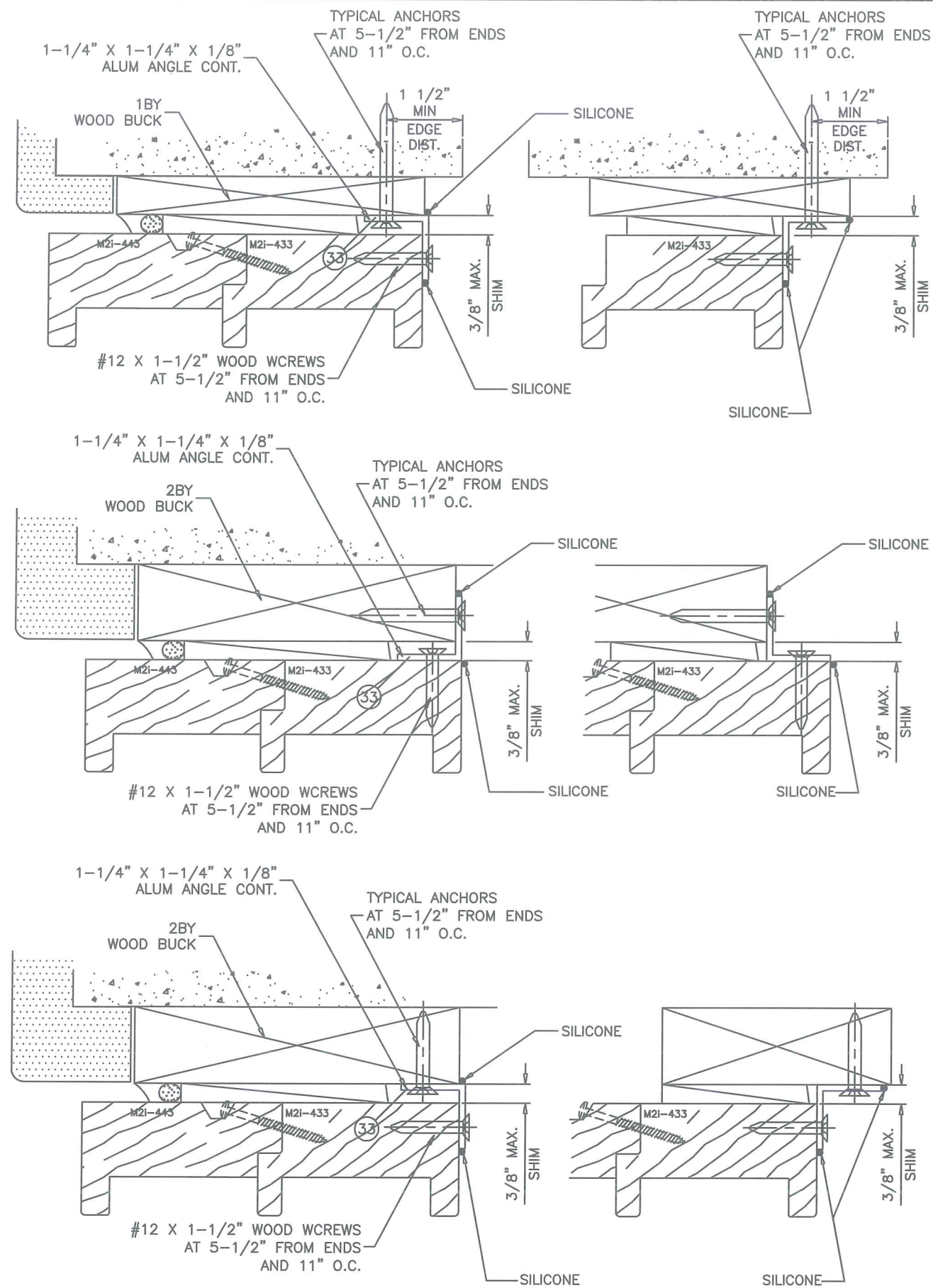
MQ windows  
1855 GRIFFIN Rd  
Suite A-271, DANIA  
FL 33004



| revisions: |          | no | date                      | by | description |
|------------|----------|----|---------------------------|----|-------------|
| 1          | 07/04/11 | SM | Minor Upgrade for renewal |    |             |
|            |          |    |                           |    |             |
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|            |          |    |                           |    |             |

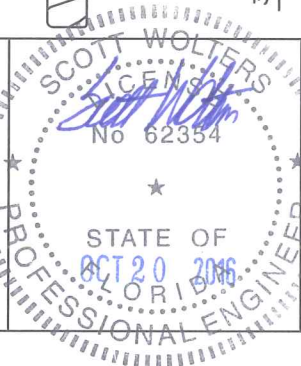
  

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| date: 02-14-06     | scale: 3/8" = 1" | dr. by: S.M. | chk. by: |
| drawing no. W06-12 |                  | sheet 4 of 9 |          |



### #33 ANGLE INSTALLATION DETAILS

SCOTT WOLTERS  
FL PE# 62354  
WOLTERS ENGINEERING, INC.  
(COA# 27194)  
15211 97TH ROAD N  
WEST PALM BEACH, FL 33412



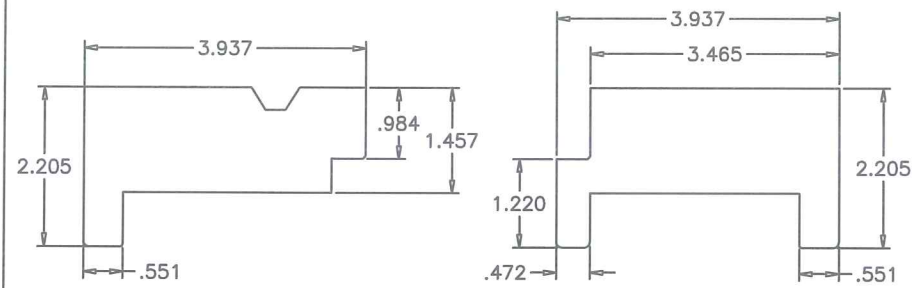
SERIES S200 WOOD FIXED WDW.(L.M.I.)

MQ windows  
1855 GRIFFIN Rd  
Suite A-271, DANIA  
FL 33004

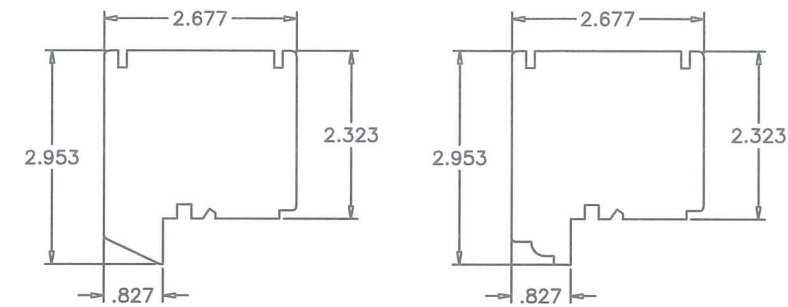


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| dr. by:    | S.M.      |          |    |                           |
| chk. by:   |           |          |    |                           |

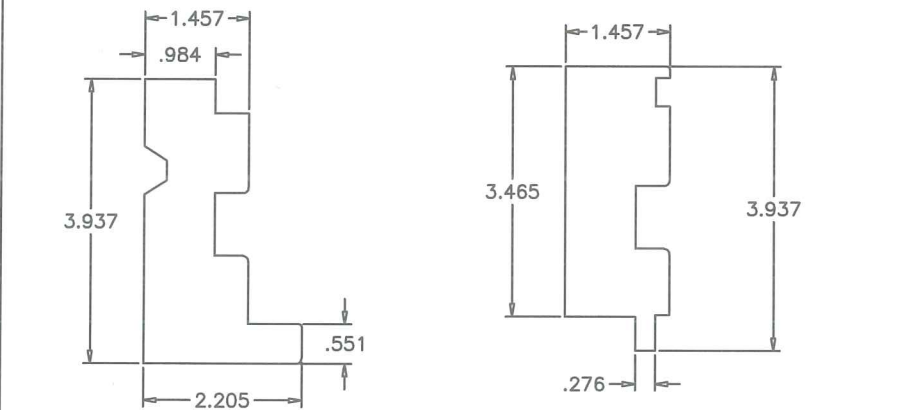
drawing no.  
W06-12  
sheet 5 of 9



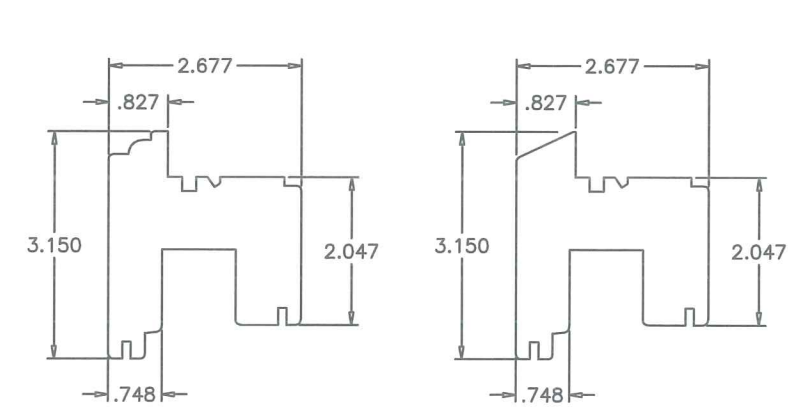
① EXTERIOR FRAME HEAD      ② INTERIOR FRAME HEAD



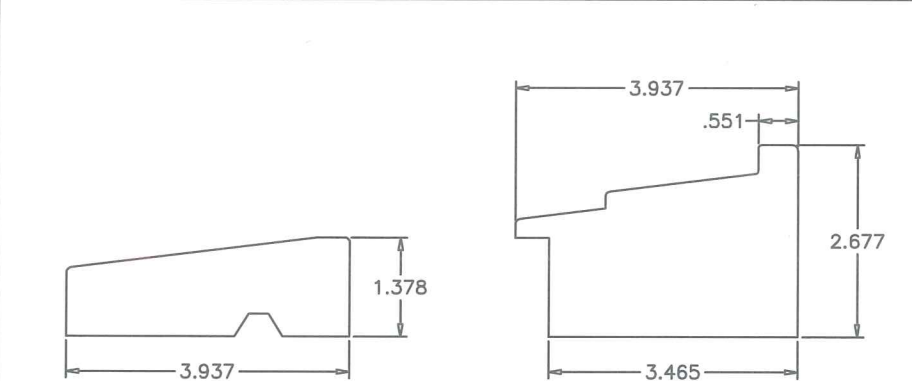
⑦ FIXED UPPER SASH      OPTIONAL



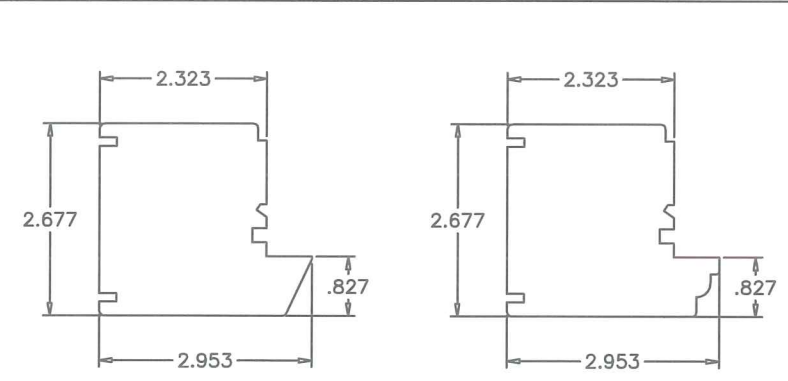
③ EXTERIOR FRAME JAMB      ④ INTERIOR FRAME JAMB



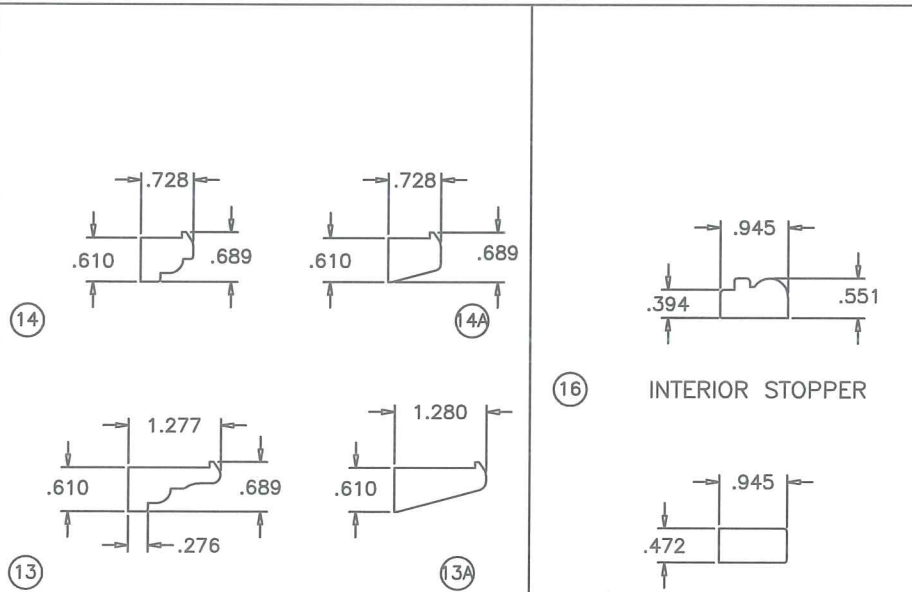
⑩ BOTTOM RAIL      OPTIONAL



⑤ EXTERIOR FRAME SILL      ⑥ INTERIOR FRAME SILL



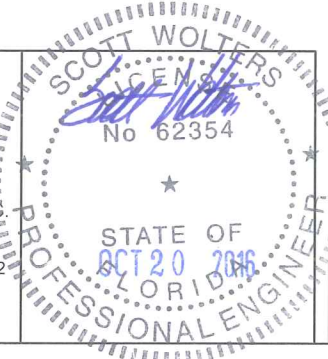
⑪ JAMB FIXED STILE      OPTIONAL



GLAZING BEADS      ⑬      ⑭      ⑮      ⑯      ⑰ MIDDLE STOPPER

WOOD = Mahogany or with specific gravity of 0.59 or higher

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15211 97TH ROAD N  
WEST PALM BEACH, FL 33412

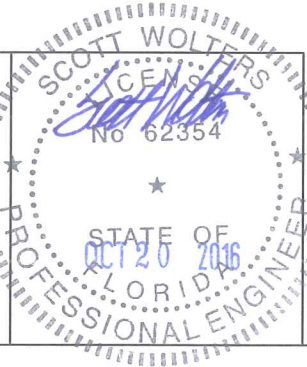


|                                                                 |                           |
|-----------------------------------------------------------------|---------------------------|
| SERIES S200 WOOD FIXED WDW.(L.M.I.)                             |                           |
| MQ windows<br>1855 GRIFFIN Rd<br>Suite A-271, DANIA<br>FL 33004 |                           |
| revisions:                                                      |                           |
| no                                                              | date                      |
| 1                                                               | 07/04/11                  |
| SM                                                              | Minor Upgrade for renewal |
| date:                                                           | 02-14-06                  |
| scale:                                                          | 3/8" = 1"                 |
| dr. by:                                                         | S.M.                      |
| chk. by:                                                        |                           |
| drawing no.                                                     | W06-12                    |
| sheet 6 of 9                                                    |                           |

WOOD = Mahogany or with specific gravity of 0.59 or higher

| ITEM # | PART #     | REQD.                        | DESCRIPTION                                                           | MATERIAL          | MANF./SUPPLIER/REMARKS                                                                              |
|--------|------------|------------------------------|-----------------------------------------------------------------------|-------------------|-----------------------------------------------------------------------------------------------------|
| 1      | M2i-443    | 1/ WDW.                      | EXTERIOR FRAME HEAD                                                   | WOOD              | MQ WDW.                                                                                             |
| 2      | M2i-433    | 1/ WDW.                      | INTERIOR FRAME HEAD                                                   | WOOD              | MQ WDW.                                                                                             |
| 3      | M2i-440    | 2/ WDW.                      | EXTERIOR FRAME JAMB                                                   | WOOD              | MQ WDW.                                                                                             |
| 4      | M2i-430    | 2/ WDW.                      | INTERIOR FRAME JAMB                                                   | WOOD              | MQ WDW.                                                                                             |
| 5      | M2i-442    | 1/ WDW.                      | EXTERIOR FRAME SILL                                                   | WOOD              | MQ WDW.                                                                                             |
| 6      | M2i-432    | 1/ WDW.                      | INTERIOR FRAME SILL                                                   | WOOD              | MQ WDW.                                                                                             |
| 7      | M2i-413A   | 1/ WDW.                      | FIXED UPPER SASH                                                      | WOOD              | MQ WDW.                                                                                             |
| 10     | M2i-402T   | 1/ WDW.                      | BOTTOM RAIL                                                           | WOOD              | MQ WDW.                                                                                             |
| 11     | M2i-410A   | 2/ WDW.                      | JAMB FIXED STILE                                                      | WOOD              | MQ WDW.                                                                                             |
| 13     | G1-075     | 4/ SASH                      | GLAZING BEAD (LAMINATED GLASS)                                        | WOOD              | MQ WDW.                                                                                             |
| 13A    | G1-074     | 4/ SASH                      | ALT. GLAZING BEAD (LAM. GLASS)                                        | WOOD              | MQ WDW.                                                                                             |
| 14     | G1-045     | 4/ SASH                      | GLAZING BEAD (LAM. INSUL. GLASS)                                      | WOOD              | MQ WDW.                                                                                             |
| 14A    | G1-044     | 4/ SASH                      | ALT. GLAZING BEAD (LAM. INSUL. GLASS)                                 | WOOD              | MQ WDW.                                                                                             |
| 16     | G2-080     | 2/ WDW.                      | INTERIOR STOPPER                                                      | WOOD              | MQ WDW.                                                                                             |
| 17     | G2-081     | 2/ WDW.                      | MIDDLE STOPPER                                                        | WOOD              | MQ WDW.                                                                                             |
| 23     | 12057      | AS REQD.                     | W'STRIPPING GASKET                                                    | EPDM              | AMESBURY                                                                                            |
| 25     | #10X2"     | AS REQD.                     | FRAME RH ASSY SCREWS                                                  | STEEL             | AT 24" O.C. MAX. & 6" max. o.c.                                                                     |
| 26     | #12X2-1/2" | AS REQD.                     | SASH RH ASSY SCREWS                                                   | STEEL             | AT 5-1/2" FROM ENDS & 12" O.C. MAX.                                                                 |
| 33     | -          | inst. option                 | Continuous Angle<br>(1/8" x 1 1/4" x 1 1/4")                          | Aluminum 6005A-T5 | with #12 x 1/1/2" long wood screws<br>@1" from the edge and @ 11" o.c.;<br>minimum 1 3/8" embedment |
| 34     | DC832      | along glass<br>perimeter     | 1/16" X 1/2" BEAD                                                     | BLACK SILICONE    | DOW CORNING 832                                                                                     |
| 35     | Spectrem2  | along glass<br>perimeter     | 1/32" X 1/2" bead, between glazing<br>bead and int. face of the glass | CLEAR SILICONE    | TREMCO                                                                                              |
| 36     | 3W-4B      | along shown<br>wood surfaces | Type 1 ext. grade Wood glue                                           | white PVA glue    | RHENOCOLL GMBH                                                                                      |

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| revisions: |          | by description |                           |
|------------|----------|----------------|---------------------------|
| no         | date     | SM             | Minor Upgrade for renewal |
| 1          | 07/04/11 |                |                           |
|            |          |                |                           |
|            |          |                |                           |
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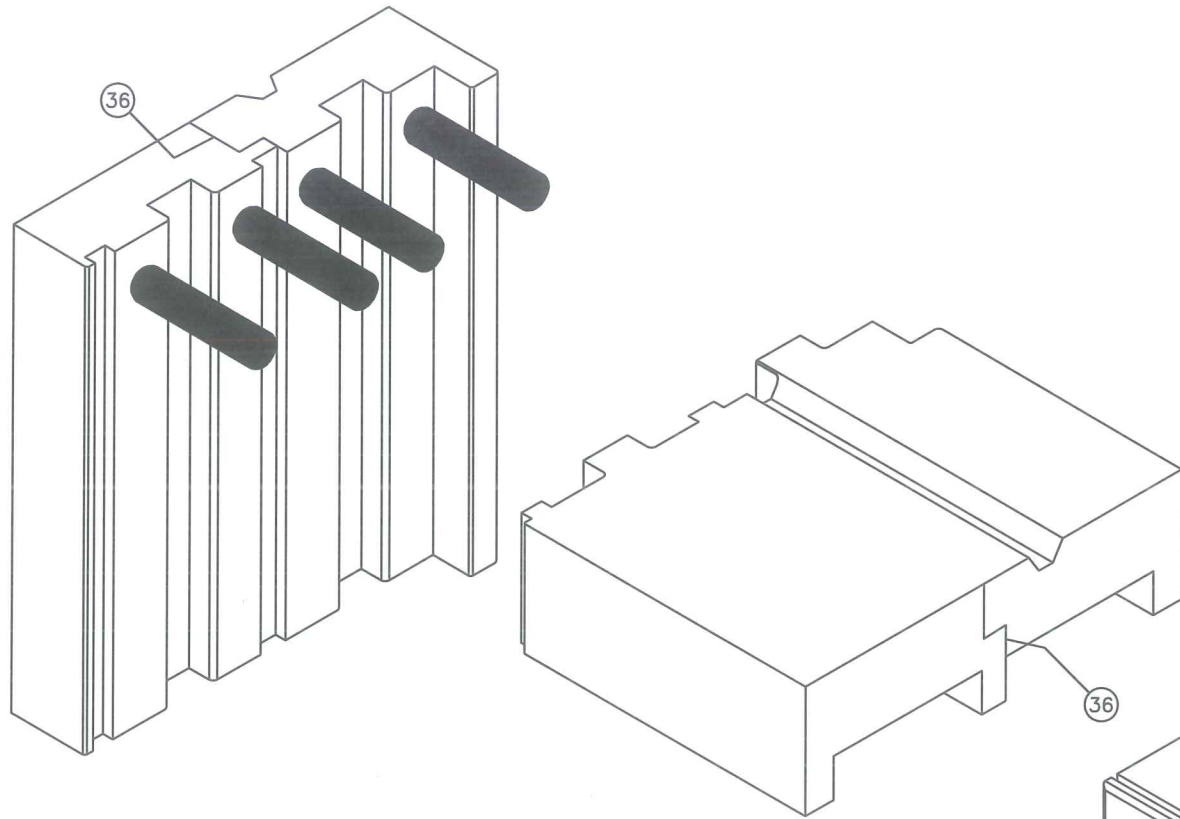
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| date: 02-14-06 | scale: 3/8" = 1" | dr. by: S.M. | chk. by: |
|----------------|------------------|--------------|----------|

drawing no.  
W06-12  
sheet 7 of 9

SERIES S200 WOOD FIXED WDW.(L.M.I.)

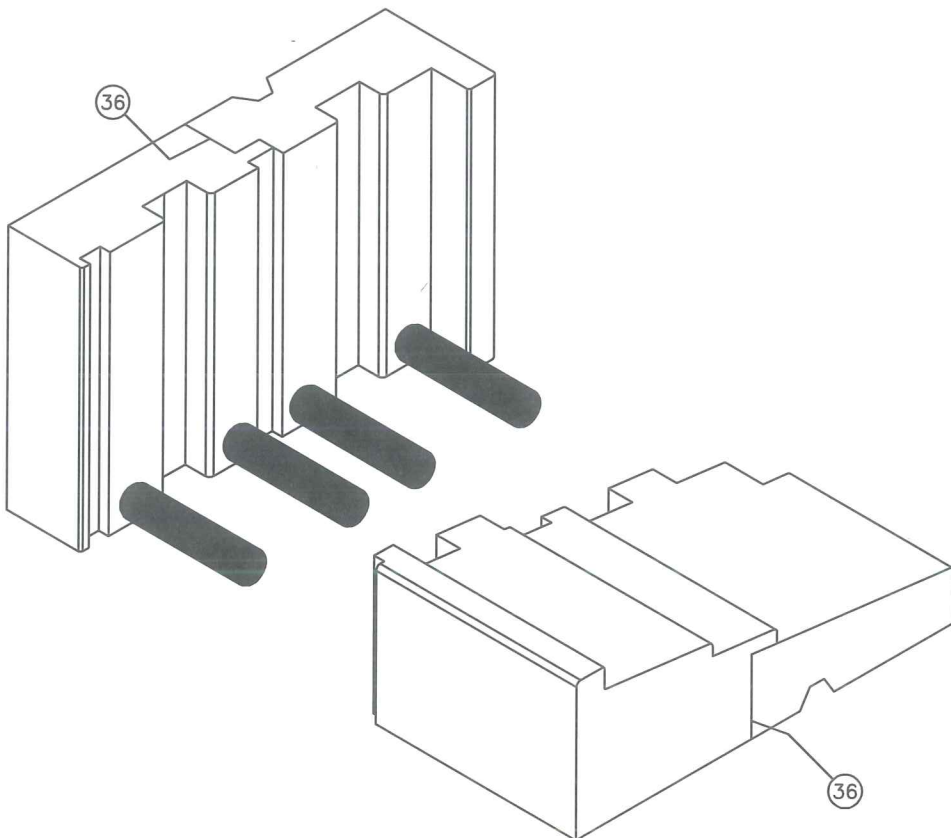
MQ windows  
1855 GRIFFIN Rd  
Suite A-271, DANIA  
FL 33004

MQ  
WINDOWS  
OF EUROPE AND  
THE AMERICAS

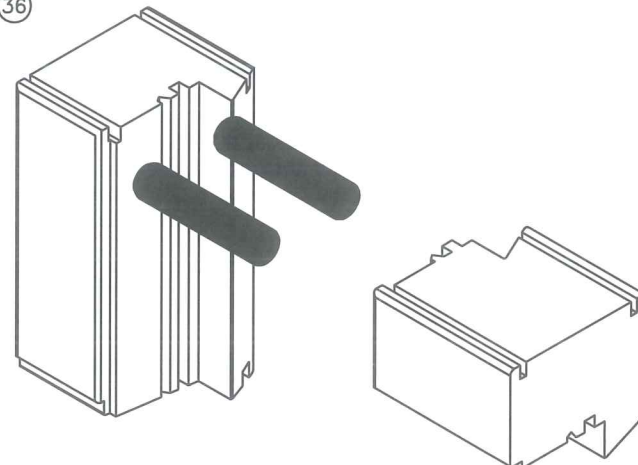


RECT. FRAME TOP CORNER

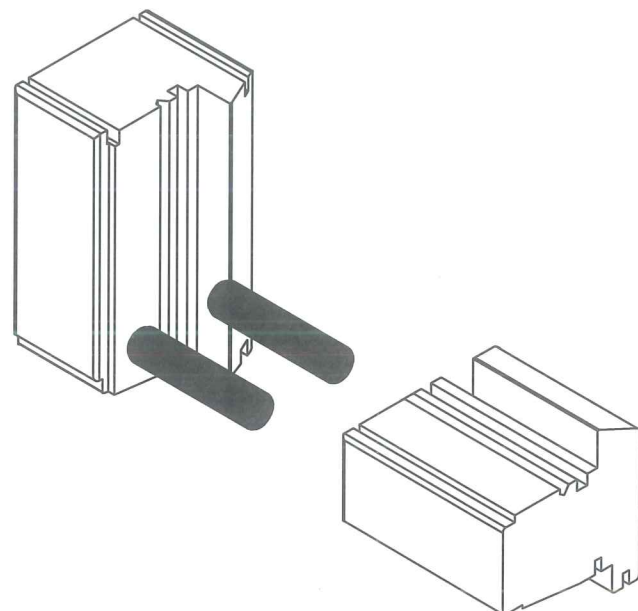
7/16" X 2-3/4" WOOD DOWELS  
GLUED WITH RHENOCOLL 3W-4B TYPE 1 EXTERIOR GRADE



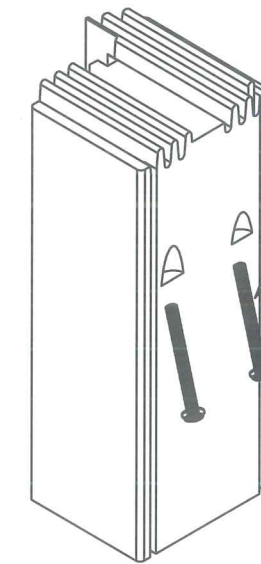
RECT. FRAME BOTTOM CORNER



RECT. SASH TOP CORNER



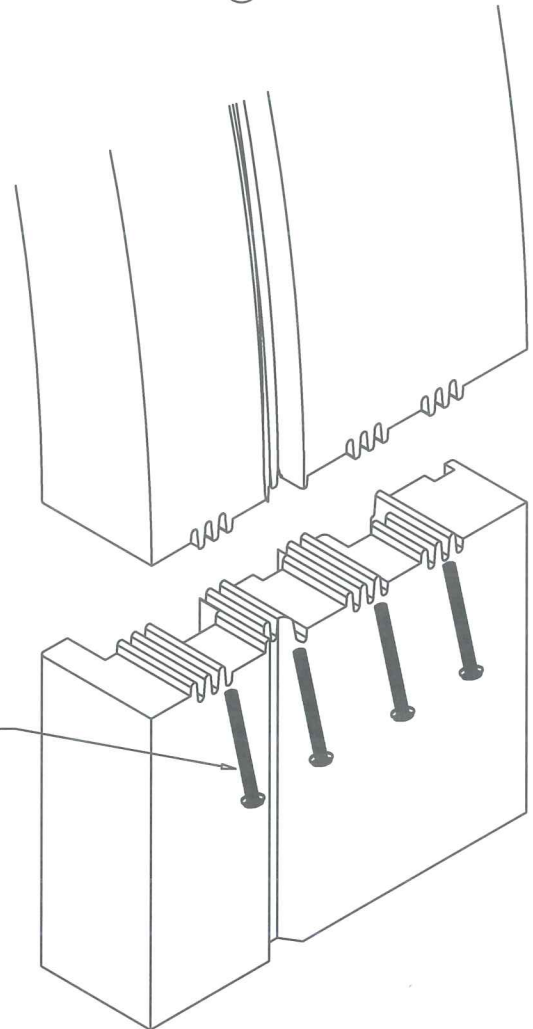
RECT. SASH BOTTOM CORNER



CIRCULAR SASH CORNER

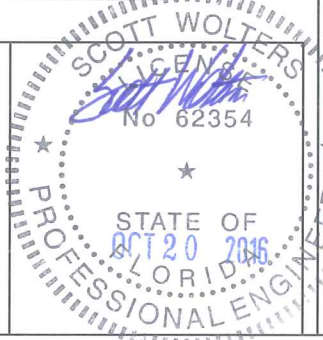
MULTIFORK ASSEMBLY  
W/ #12 X 3" WOOD SCREWS  
& RHENOCOL 3W-4B TYPE 1  
EXTERIOR GRADE GLUE (36)

MULTIFORK ASSEMBLY  
W/ #12 X 3" WOOD SCREWS  
& RHENOCOL 3W-4B TYPE 1  
EXTERIOR GRADE GLUE (36)



CIRCULAR FRAME CORNER

SCOTT WOLTERS  
FL PE# 62354  
WOLTERS ENGINEERING, INC.  
(COA# 27194)  
15211 97TH ROAD N  
WEST PALM BEACH, FL 33412



SERIES S200 WOOD FIXED WDW.(L.M.I.)

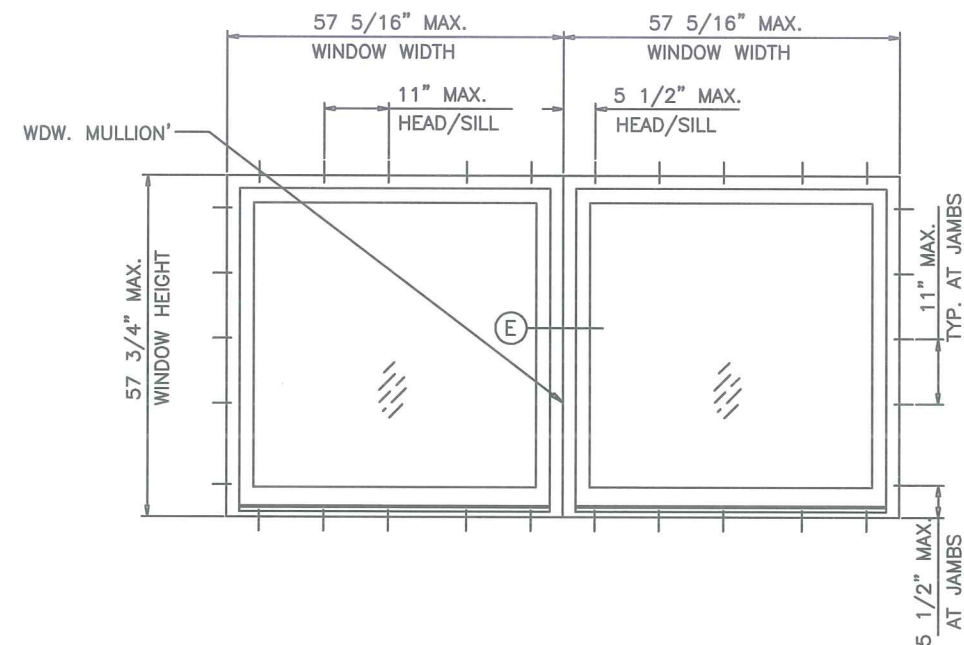
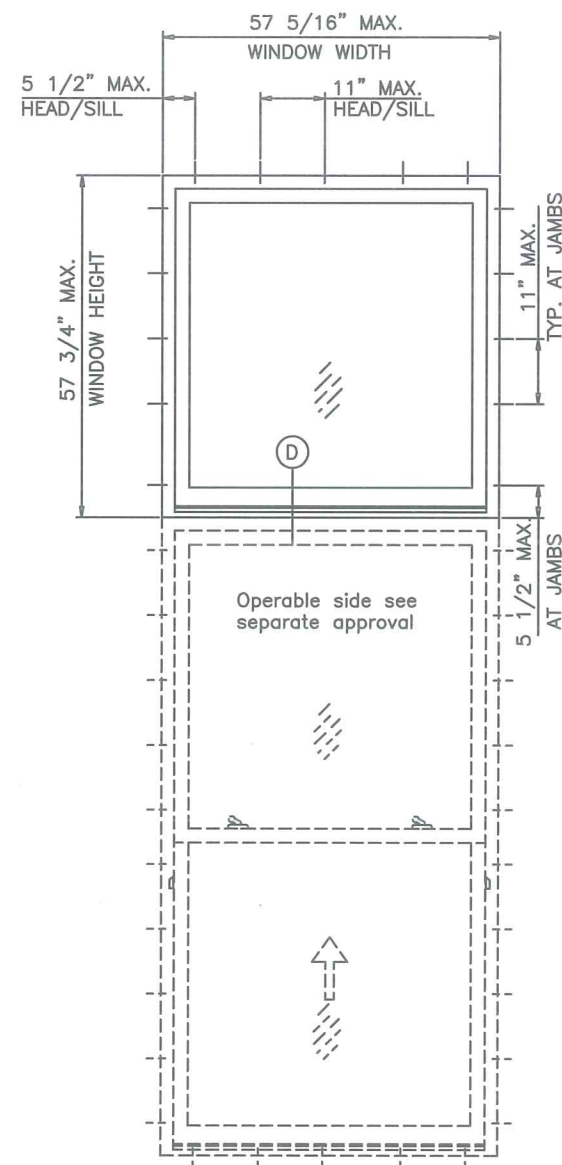
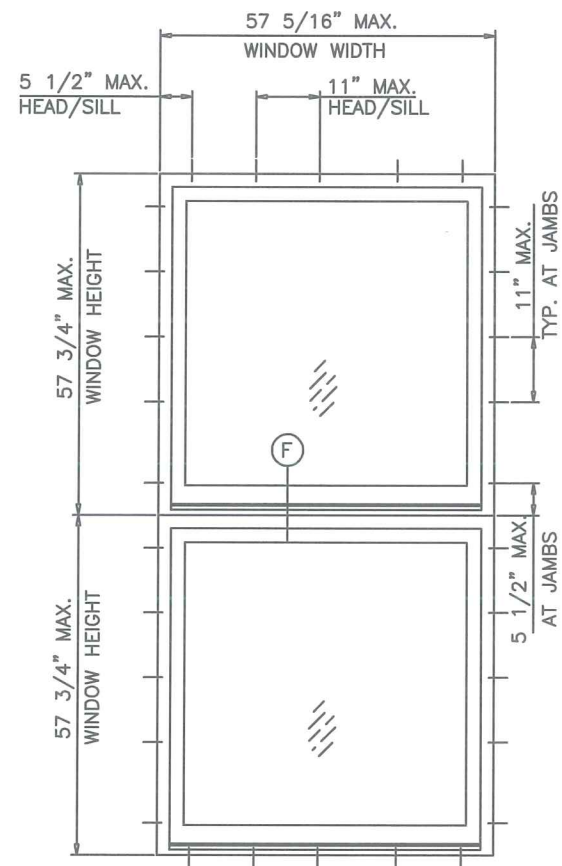
MQ windows  
1855 GRIFFIN Rd  
Suite A-271, DANIA  
FL 33004



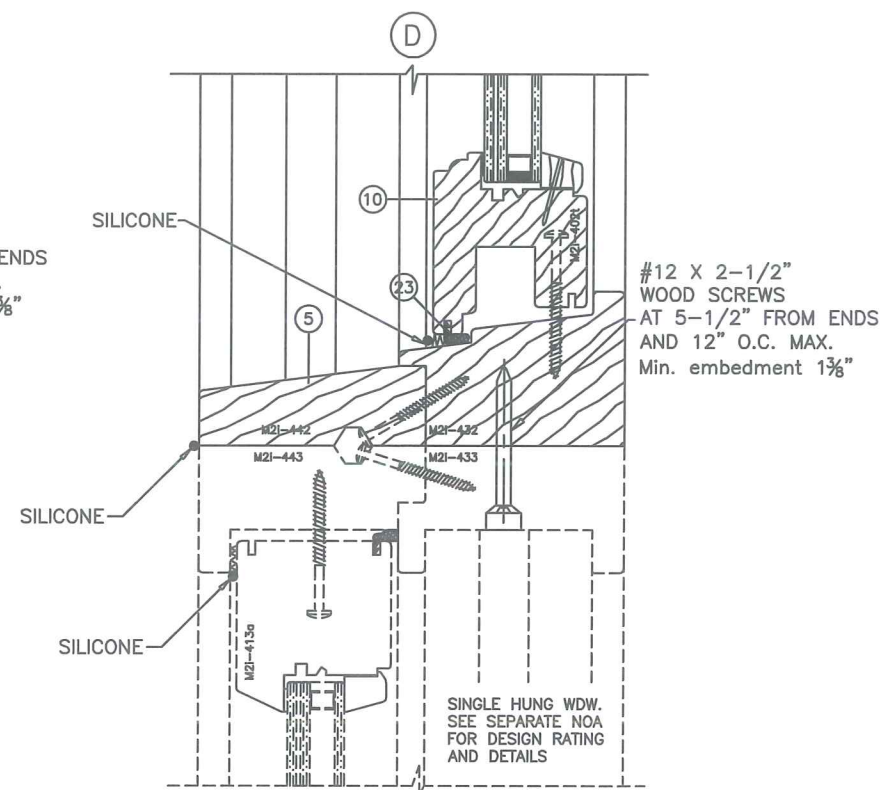
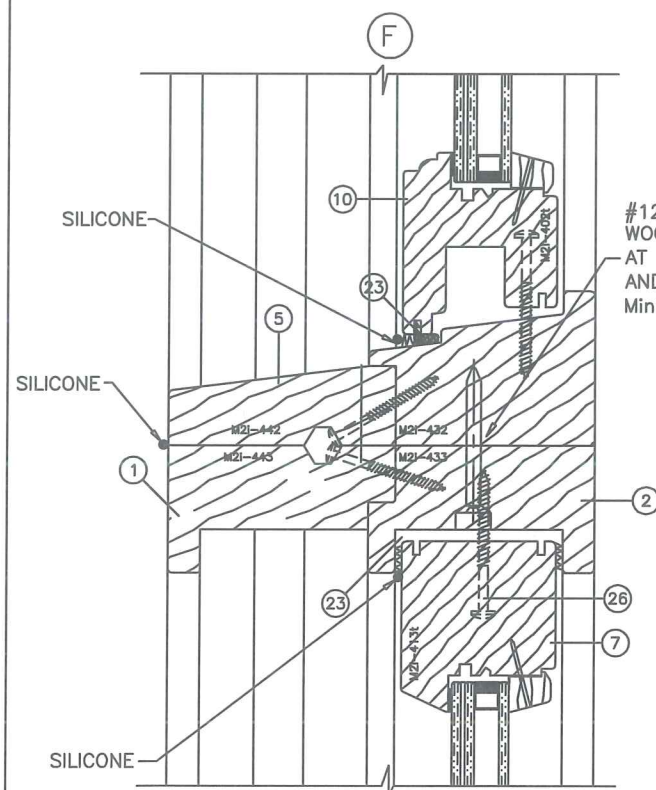
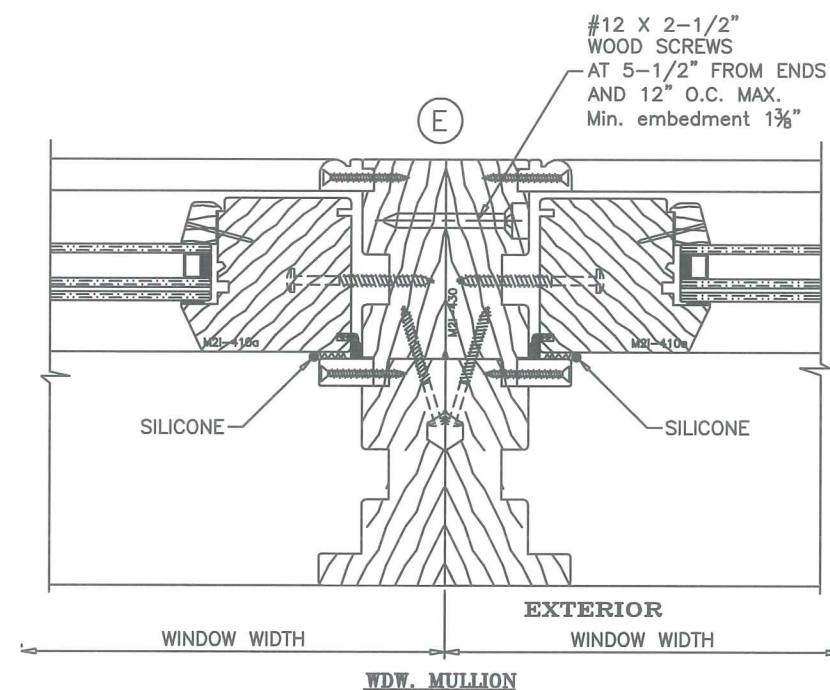
| revisions: | no | date     | by | description               |
|------------|----|----------|----|---------------------------|
|            | 1  | 07/04/11 | SM | Minor Upgrade for renewal |

|                |                  |              |          |
|----------------|------------------|--------------|----------|
| date: 02-14-06 | scale: 3/8" = 1" | dr. by: S.M. | chk. by: |
|----------------|------------------|--------------|----------|

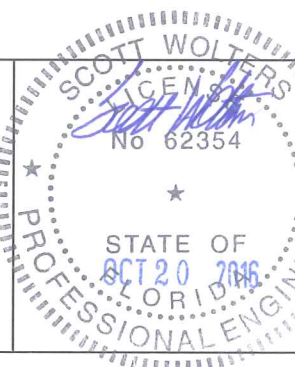
drawing no.  
W06-12  
sheet 8 of 9



**TYPICAL ELEVATIONS**  
SIDE BY SIDE WINDOWS  
SIDE BY SIDE APPLIES TO TWO OR MORE WINDOWS



SCOTT WOLTERS  
FL PE# 62354  
WOLTERS ENGINEERING, INC.  
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15211 97TH ROAD N  
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SERIES S200 WOOD FIXED WDW.(L.M.I.)

MQ windows  
1855 GRIFFIN Rd  
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FL 33004



| revisions: | no | date     | by | description               |
|------------|----|----------|----|---------------------------|
|            | 1  | 07/04/11 | SM | Minor Upgrade for renewal |

|          |           |
|----------|-----------|
| date:    | 02-14-06  |
| scale:   | 3/8" = 1" |
| dr. by:  | S.M.      |
| chk. by: |           |

drawing no.  
**W06-12**  
sheet 9 of 9