



**BUILDING CODE COMPLIANCE OFFICE (BCCO)
PRODUCT CONTROL DIVISION**

**MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1563
(305) 375-2901 FAX (305) 372-6339**

NOTICE OF ACCEPTANCE (NOA)

www.maimidade.gov/buildingcode

**Greenheck Fan Corporation
P.O. Box 410
Schofield, WI 54476**

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Division (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Model SDLE Aluminum Louvered Enclosure.

APPROVAL DOCUMENT: Drawing No. **SDLE-1**, titled "Model SDLE Severe Duty Louvered Enclosure", dated 01/28/03, with last revision on 07/08/03, prepared by Greenheck Fan Corporation, signed and sealed by L. D. Rice, P.E., bearing the Miami-Dade County Product Control Renewal stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Division.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA **renews NOA # 03-0422.05** and consists of this page 1 and evidence page E-1, as well as approval document mentioned above.

The submitted documentation was reviewed by **Carlos M. Utrera, P.E.**



Handwritten signature and date: 6/3/08

**NOA No. 08-0429.05
Expiration Date: August 21, 2013
Approval Date: June 26, 2008
Page 1**

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. **SDLE-1**, titled "Model SDLE Severe Duty Louvered Enclosure", dated 01/28/03, with last revision on 07/08/03, prepared by Greenheck Fan Corporation, signed and sealed by L. D. Rice, P.E.
"Submitted under NOA # 03-0422.05"

B. TESTS

1. Test report on Large Missile Impact Test per PA 201, Cyclic Wind Pressure Test per PA 203 and Uniform Static Air Pressure Test per PA 202 of "Severe Duty Louvered Enclosure", prepared by Hurricane Test Laboratory, Inc., Report No. **HTL-03020**, signed and sealed by Vinu J. Abraham, P.E. on 04/12/03.
"Submitted under NOA # 03-0422.05"

C. CALCULATIONS

1. Louver Anchorage Calculations of Severe Duty Louver Enclosure prepared by Rice Engineering, Sheets P1 through R3, dated 01/28/03, signed and sealed by L. D. Rice, P.E.
"Submitted under NOA # 03-0422.05"

D. QUALITY ASSURANCE

1. Miami Dade Building Code Compliance Office (BCCO).

E. MATERIAL CERTIFICATIONS

1. Tensile test of 1 sample #0325-0202-03 by Q. C. Metallurgical, Inc., on 03/13/03, signed and sealed by F. E. Grate Jr, P.E.
"Submitted under NOA # 03-0422.05"

F. STATEMENTS

1. Statement letter of no change issued by Greenheck Fan Corporation, dated 04/11/08, signed and sealed by Michael L. Watz, Jr., P.E.
2. Code compliance letter issued by Rice Engineering on 03/19/03, and signed by L. D. Rice, P.E.
3. No financial interest letter issued by Greenheck Fan Corporation on 07/08/03 and signed by B. L. Knieriem and notarized by E. Kettner.
"Submitted under NOA # 03-0422.05"

G. OTHER

1. Notice of Acceptance No. **03-0422.05**, issued to Greenheck Fan Corporation, approved on 08/21/03 and expiring on 08/21/08.



Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 08-0429.05

Expiration Date: August 21, 2013
Approval Date: June 26, 2008

ITEM	QUANTITY	DESCRIPTION	MATERIAL	DIMENSIONS
1	1 / SIDE	HEAD	6063-T5 ALUMINUM	0.125 WALL X 5.73D X 5.34H
2	1 / SIDE	SILL	6063-T5 ALUMINUM	0.125 WALL X 6.08D X 6.54H
3	2 / SIDE	JAMB	6063-T5 ALUMINUM	0.125 WALL X 5.94D X 1.25W
4	5.5" SPACING	BLADE	6063-T5 ALUMINUM	0.125 WALL X 5.73D X 6.53H
5	1 / BLADE	BLADE BRACKET (THROAT>32.5")	6063-T5 ALUMINUM	0.081 WALL X 4.68D X 4.00H
6	2 / SIDE	TOP / BOTTOM SUPPORT CHANNEL	A572 STL OR A240 SS	0.135 X 1.25 X 2 X 3 CHANNEL
7	2 / SIDE	SIDE SUPPORT CHANNEL	A572 STL OR A240 SS	0.135 X 1.25 X 2 X 3 CHANNEL
8	1 / SIDE	BLADE SUPPORT ANGLE	A572 STL OR A240 SS	0.135 X 1.25 X 2.5 ANGLE (THROAT>32.5")
9	1 / SIDE	CENTER SUPPORT ANGLE	A572 STL OR A240 SS	0.135 X 2 X 2.5 ANGLE (THROAT>32.5")
10	1 / SIDE	BIRDSCREEN	1100 ALUM./GALV	LOUVER OPENING
11	4	LONG STRUCTURAL ANGLE	A36 STL OR A276 SS	2 X 2 X 1/4 X 64 MAX. LENGTH
12	4	SHORT STRUCTURAL ANGLE	A36 STL OR A276 SS	2 X 2 X 1/4 X 60 MAX. LENGTH
13	4	CORNER STRUCTURAL ANGLE	A36 STL OR A276 SS	2 X 2 X 1/4 X 48 MAX. LENGTH
14	2	CURB CAP-LONG SIDE	A572 STL OR A 240 SS	0.105 X 2.75 X 2.75 ANGLE
15	2	CURB CAP-SHORT SIDE	A572 STL OR A 240 SS	0.105 X 2.75 X 2.75 ANGLE
16	1	BLANKOFF	A572 STL OR A 240 SS	0.063 STEEL ANGLE
17	4	CORNER COVER	1100 ALUMINUM	0.125 X 10.50 X 10.50 X 48.00 MAX HEIGHT
18	4	BOTTOM CORNER COVER	1100 ALUMINUM	0.080 X 9.20 X 9.20 FORMED
19	1	HOOD (SINGLE PIECE)	1100 ALUMINUM	0.100 X 56.20 X 79.20 MAX.
20	1	HOOD - TWO PIECE (THROAT>32.5")	1100 ALUMINUM	0.100 X 56.20 X 79.20 MAX.
21	1	RIDGE CAP (THROAT>32.5")	1100 ALUMINUM	0.063 X 2.0 X 2.0 X 72.0 MAX. LENGTH
22	1	HOOD SUPPORT (THROAT>32.5")	A653 GALV. OR A240 SS	12 GA. X 3.25 X 1.25 ANGLE
23	8" MAX. CENTERS	HOOD SUPPORT CHANNEL	1100 ALUMINUM	0.063 X 1-1/2 X 8.0 WIDE CHANNEL
24	1 / HOOD	HOOD BOTTOM COVER	1100 ALUMINUM	0.063 MIN. THICK SHEET
25	4 / EXTRUSION	LOUVER FASTENER	18-8 SS	NO.10-16 X 3/4 TYPE AB
26	6" MAX. SPACING	LOUVER MTG. SCREW	18-8 SS	NO.10-16 X 3/4 TYPE AB
27	6" MAX. SPACING	LOUVER MTG. BOLT	SAE J429 OR ASTM F593	3/8-16 X 1 HEX HEAD
28	6" MAX. SPACING	LOUVER MTG. NUT	SAE J995 OR ASTM F954	3/8-16 HEX
29	2 / BRACKET	BLADE BRACKET SCREW	18-8 SS	NO.10-16 X 3/4 TYPE AB
30	12" MAX. CENTER	CORNER COVER SCREW	18-8 SS	NO.10-16 X 3/4 TYPE AB
31	4 / CORNER	BOTTOM COVER SCREW	18-8 SS	NO.10-16 X 3/4 TYPE AB
32	2 / CORNER	HOOD FASTENER-FEMALE	ZP STEEL	1/4-20 RIVNUT
33	2 / CORNER	HOOD FASTENER-MALE	18-8 SS	1/4-20 X 1.0 MIN.
34	2 / HOOD	HINGE ASSEMBLY	1100 ALUMINUM	3/16 THICK WITH 1/4 RIVET
35	8 / HOOD	HINGE SCREW	18-8 SS	1/4-20 X 5/8 PTH
36	8 / HOOD	HINGE NUT	18-8 SS	1/4-20 SERRATED FLANGE NUT
37	12" MAX. CENTERS	TWO PIECE HOOD FASTENER	SAE J429 OR ASTM F593	5/16-18 X 3/4 HEX HEAD-MIN.
38	12" MAX. CENTERS	TWO PIECE HOOD FASTENER	SAE J995 OR ASTM F954	5/16-18 HEX-MIN.
39	4	RIDGE CAP FASTENER	18-8 SS	NO.10 X 1/2 PTH
40	4	CURB PANEL	A572 STL OR A240 SS	0.105 X 24.00 MAX. HIGH
41	4 (CURB HEIGHT>18")	CURB STIFFENER	A572 STL OR A240 SS	0.105 X 2.0 X 2.0 FORMED ANGLE
42	12" MAX. CENTERS	CURB WELDNUT	SAE J995 OR ASTM F954	3/8-16 WELDNUT
43	12" MAX. CENTERS	CURB FASTENER	SAE J429 OR ASTM F593	3/8-16 X 1 HEX HEAD
44	12" MAX. CENTERS	ANCHOR FASTENER-CONCRETE	PLATED STEEL	3/8-16 X 3 HILTI KBII, 2-1/4 MIN. IMBED
45	4.5" MAX CENTERS	ANCHOR FASTENER-STEEL	PLATED STEEL	NO.12-14, NO.3 POINT HILTI KWIK-FLEX SCREW
46	1 / BRACKET	BRACKET REINFORCEMENT	6063-T5 ALUMINUM	0.063 WALL X 1.5W X 0.50H
47	2 / BRACKET	RIVET	PLATED STEEL	3/16 X 7/32

DESIGN LIMITS

Max. Wind Velocity:	150 mph (67 m/s)
Max. Design Load:	140 psf (6.8 kPa)
Max. Curb Throat Width:	56.5 in. (1435 mm)
Max. Curb Throat Length:	56.5 in. (1435 mm)
Max. Inside Structural Angle W:	60.0 in. (1524 mm)
Max. Inside Structural Angle L:	60.0 in. (1524 mm)
Max. Inside Structural Angle H:	48.0 in. (1219 mm)
Max. Overall Enclosure Width:	79.2 in. (2012 mm)
Max. Overall Enclosure Length:	79.2 in. (2012 mm)
Max. Overall Height (W/Curb):	76.0 in. (1930 mm)
Max. Overall Height (W/O Curb):	52.0 in. (1321 mm)
Max. Curb Height:	24.0 in. (610 mm)
Max. Outside Curb:	60.0 in. (1524 mm)
Qualified Substrates:	3000 psi Concrete, 1/8" Steel

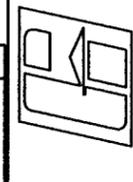
- Enclosure size based on throat opening (THROAT) through top of curb. Throat opening width and length do not have to be the same.
Outside curb dimension = THROAT + 3.5"
Inside structural angle dimension = THROAT + 3.5"
Overall enclosure outside dimension = THROAT + 22.7"
- Enclosure sizing is based on height from louver base to hood surface without ridge cap. Ridge cap height is 2".
Minimum louver enclosure height = 16" (wo ridge cap)
Maximum louver enclosure height = 50" (wo ridge cap)
Structural angle height inside = 48" maximum

- Maximum curb height = 24". Interior 12 ga. (0.105) x 2 x 2 curb support angle.
- A louver center blade support is provided behind each louver side having a throat opening dimension > 32.5".
- Two-piece hood is provided for any enclosure having both width and length throat dimension > 32.5".
- Roof structure must be designed to withstand the weight and loading transferred from the severe duty louvered enclosure. All anchoring fasteners must be as specified and must be installed as shown.

- The SDLE has been successfully tested in accordance with the Florida Building Code protocols TAS 201 (missile impact), TAS 202 (structural integrity) and TAS 203 (cyclic fatigue).
- Louvered enclosure is to be installed in a location where the room below the enclosure is designed to drain water penetrating into the room, and the room will house water resistant/water proof equipment, components and/or supplies.
- Design, testing and installation conforms to Florida Building Code.

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No 08-0429.05
Expiration Date 08/21/13
By [Signature]
Miami Dade Product Control
Division

GREENHECK
P.O. BOX 410 SCHOFIELD,
WISCONSIN 54476-0410

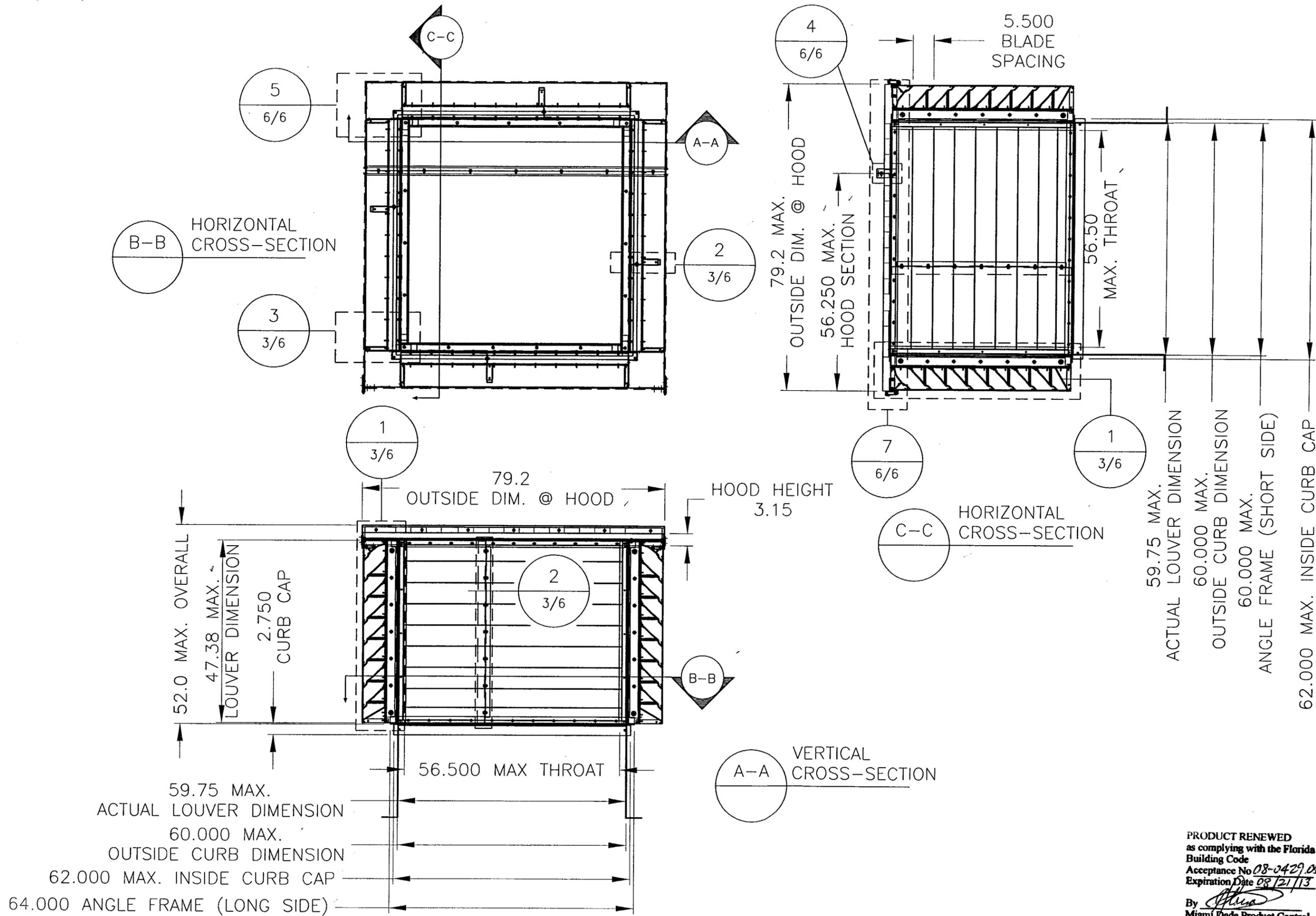


Approved as complying with the
Florida Building Code
Date 8/21/03
NOA# 03-0422.05
Miami Dade Product Control
Division
By [Signature]

[Signature]
JUL 09 2003

DAVID RICE

DRAWN BY MEYDAM	DATE 01/28/2003	SHEET NO. 1 of 6	CAD DRAWING NO. SDLE-1
	SCALE		
TITLE MODEL SDLE SEVERE DUTY LOUVERED ENCLOSURE			
REV 4			



DRAWN BY MEYDAM	DATE 01/28/2003
SCALE	REVISION DATE 07/08/2003
SHEET NO. 2 OF 6	
CAD DRAWING NO. SDLE-1	
REV 4	

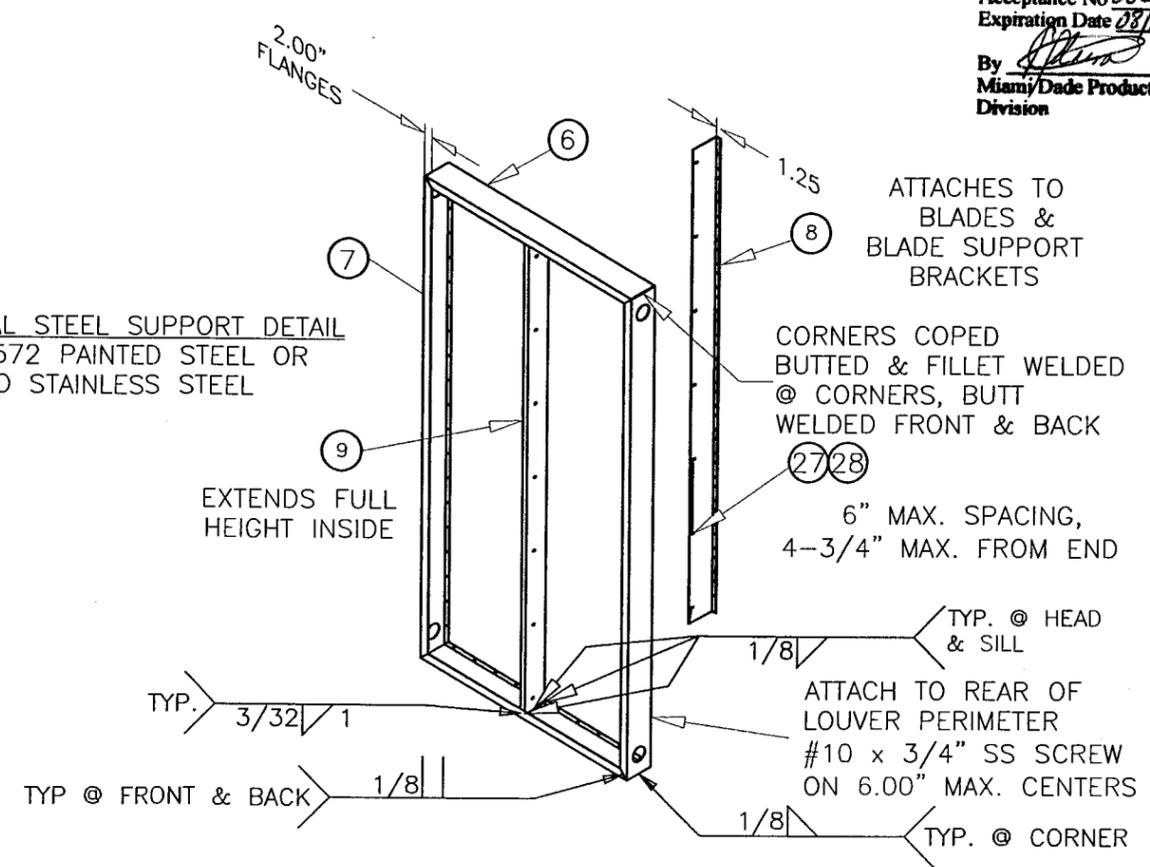
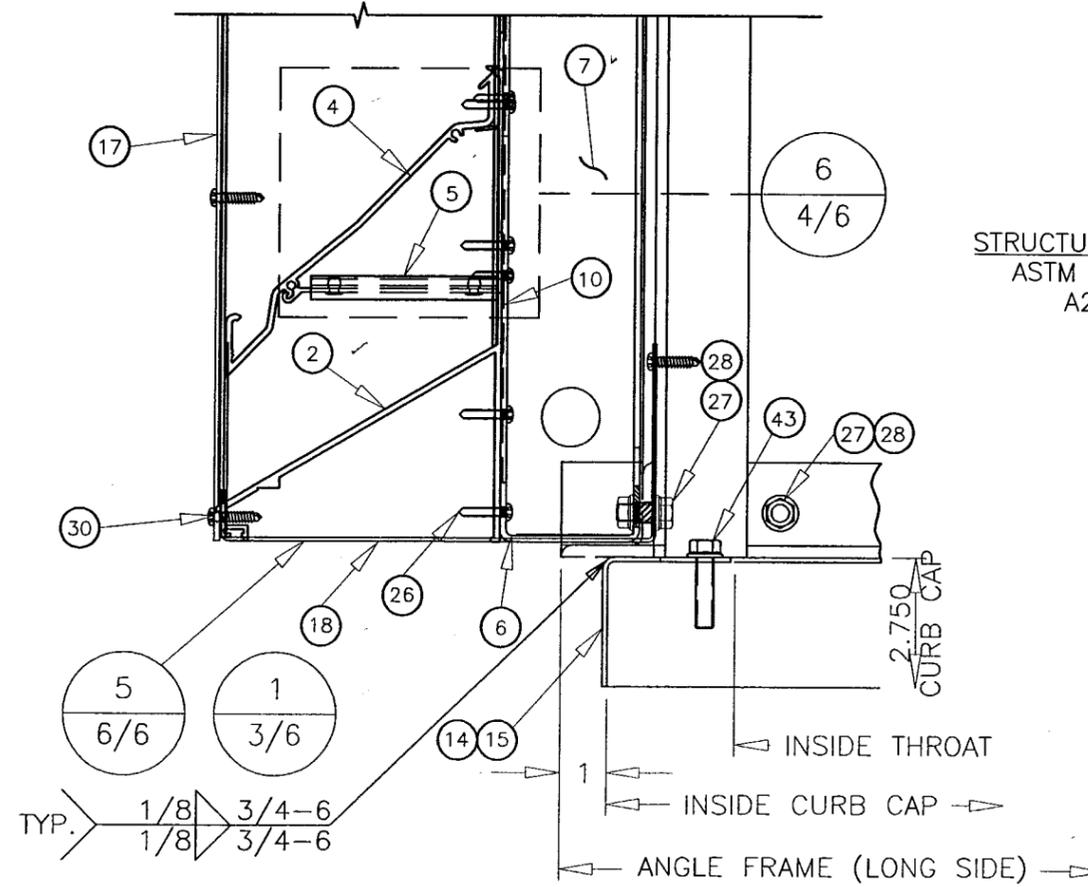
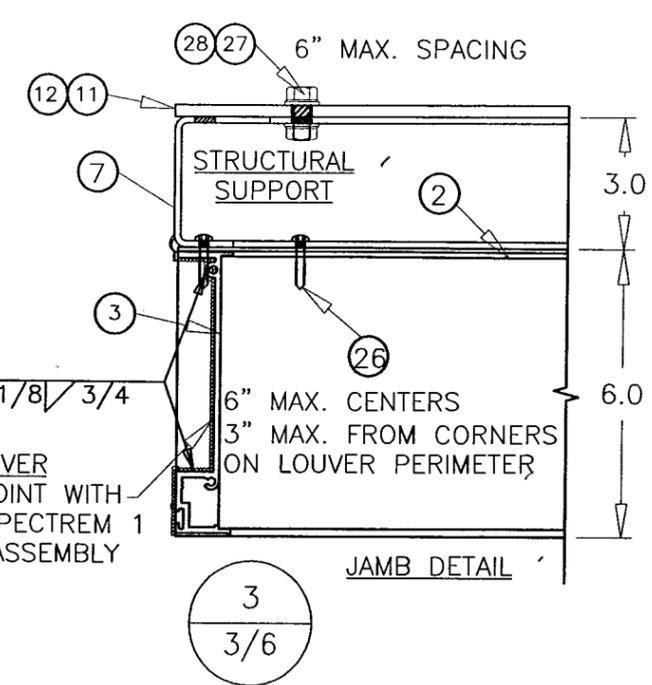
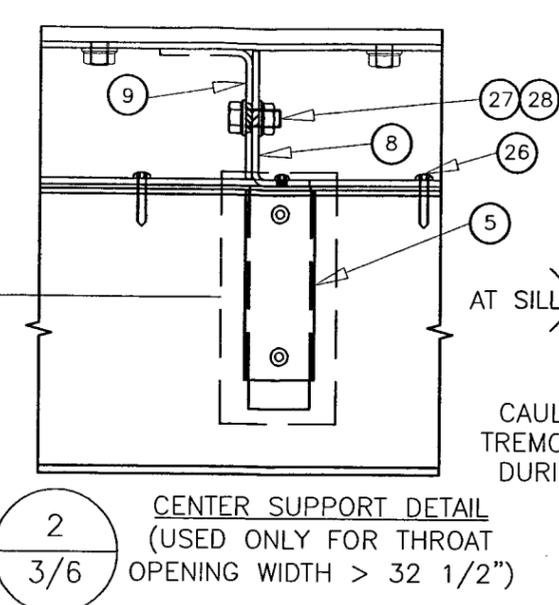
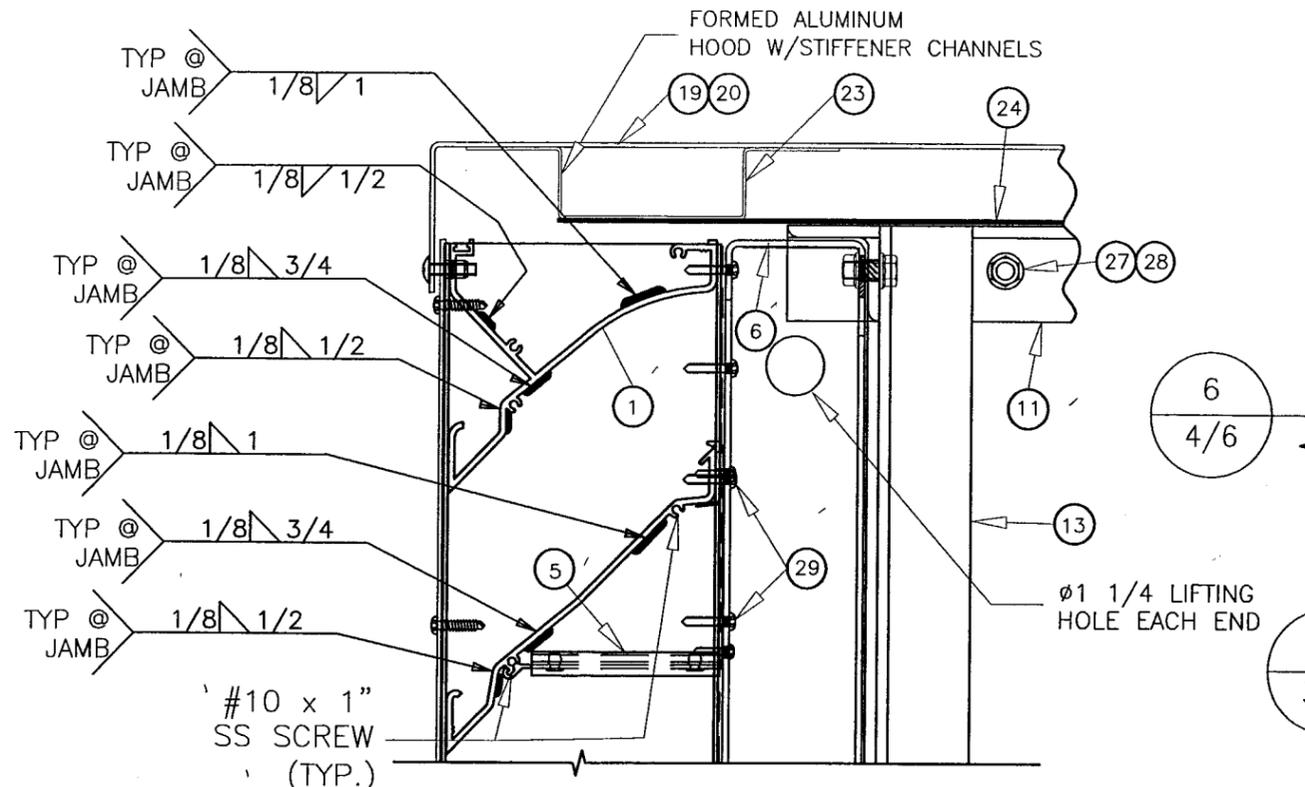
GREENHECK
P.O. BOX 410 SCHOFIELD,
WISCONSIN 54476-0410

**MODEL SDLE
SEVERE DUTY
LOUVERED ENCLOSURE**

Approved as complying with the Florida Building Code
Date 8/21/03
NOA# 03-6922-05
Miami Dade Product Control
Division

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No 08-0429.05
Expiration Date 08/21/13
By *[Signature]*
Miami Dade Product Control
Division

[Signature]
JUL 09 2003
L. DAVID RICE



PRODUCT RENEWED
 as complying with the Florida
 Building Code
 Acceptance No 08-0479.05
 Expiration Date 08/21/13
 By [Signature]
 Miami/Dade Product Control
 Division

DRAWN BY	MEYDAM	DATE	01/28/2003
SCALE		REVISION DATE	07/08/2003
SHEET NO.	3 of 6		
CAD DRAWING NO.	SDLE-1		
REV	4		

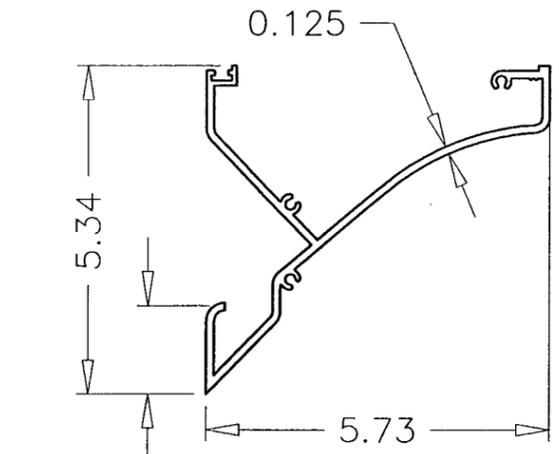
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 P.O. BOX 410 SCHOFIELD,
 WISCONSIN 54476-0410

CA

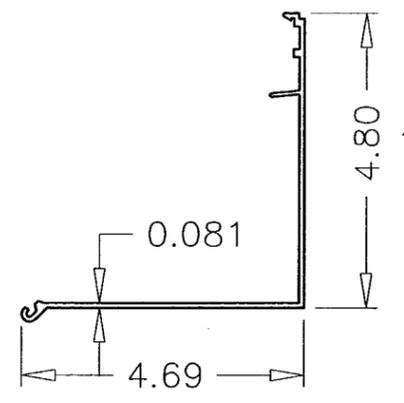
TITLE
 MODEL SDLE
 SEVERE DUTY
 LOUVERED ENCLOSURE

Approved as complying with the
 Florida Building Code
 Date 8/21/03
 NOA# 03-6422.05
 Miami/Dade Product Control
 Division
 By [Signature]

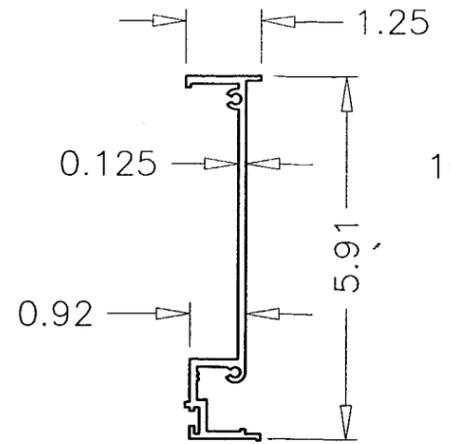
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 JUL 09 2003
 L. DAVID RICE



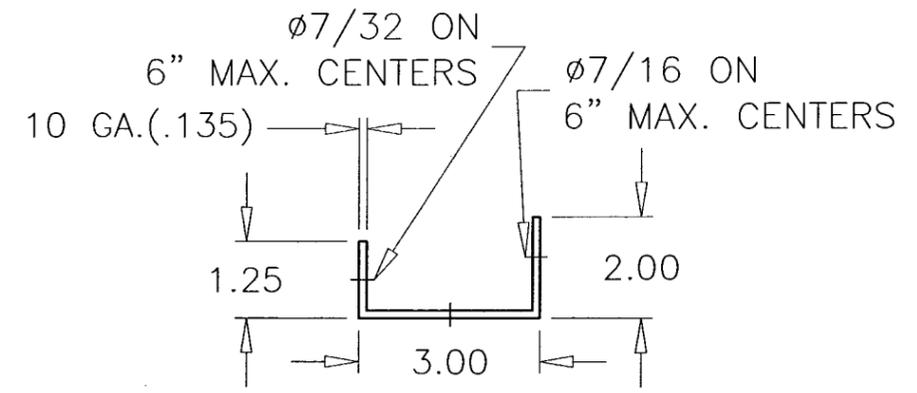
1 HEAD
6063-T5 ALUMINUM



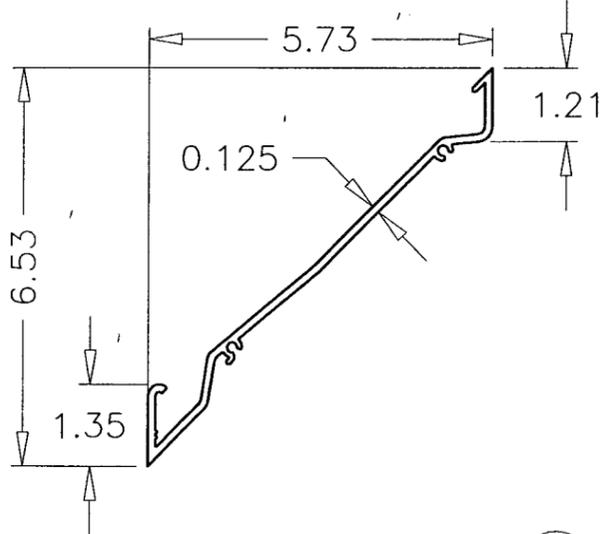
5 BLADE BRACKET
6063-T5 ALUMINUM
(USED ONLY FOR THROAT
OPENING >32 1/2")



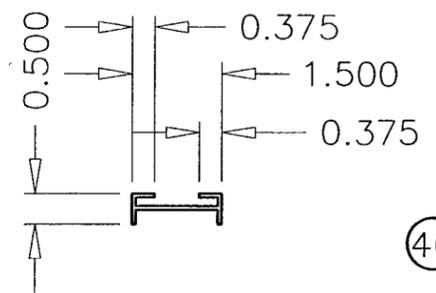
3 JAMB
6063-T5 ALUMINUM



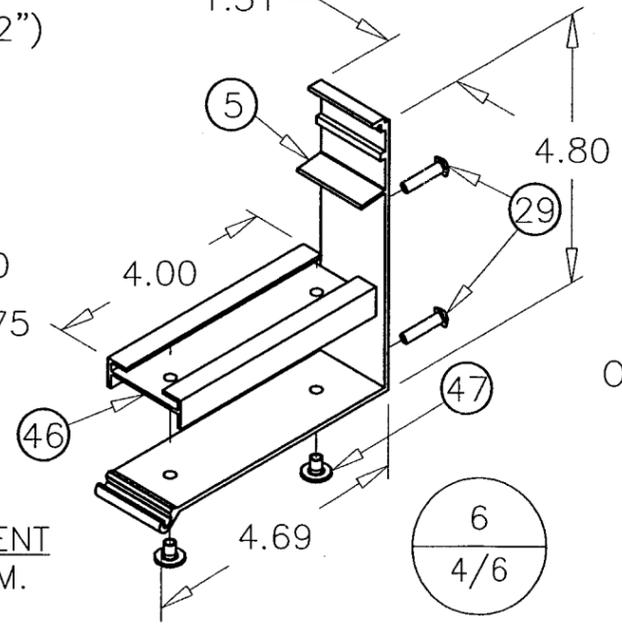
6 7 TOP/BOTTOM/SIDE
STRUCTURAL SUPPORT
ASTM A572 PAINTED STEEL
OR A240 STAINLESS STEEL



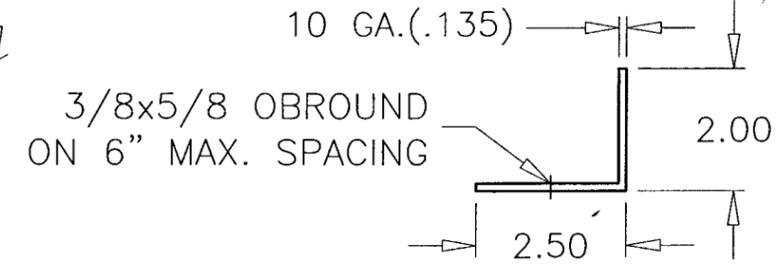
4 BLADE
6063-T5 ALUMINUM



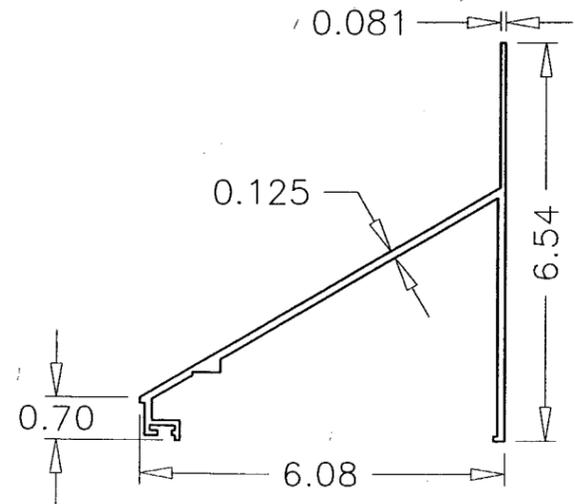
46 BRACKET REINFORCEMENT
0.063 6063-T5 ALUM.



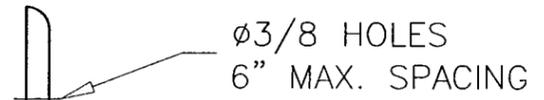
6 BLADE SUPPORT BRACKET ASSEMBLY
(USED ONLY FOR THROAT OPENING >32.5")



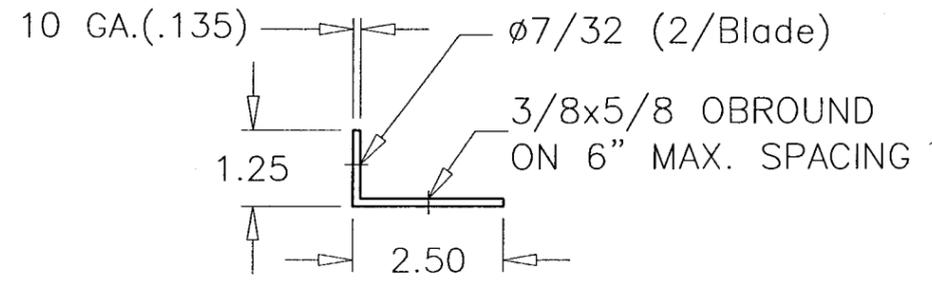
9 CENTER STRUCTURAL
SUPPORT ANGLE
ASTM A572 PAINTED STEEL
OR A240 STAINLESS STEEL



2 SILL
6063-T5 ALUMINUM



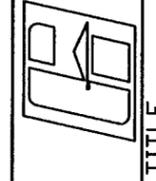
11 12 13 2x2x1/4 ANCHORING ANGLE
ASTM A36 PAINTED STEEL



8 BLADE SUPPORT ANGLE
ASTM A572 PAINTED STEEL
OR A240 STAINLESS STEEL

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By *[Signature]*
Miami Dade Product Control
Division

GREENHECK
P.O. BOX 410 SCHOFIELD,
WISCONSIN 54476-0410



TITLE

MODEL SDLE
SEVER DUTY
LOUVER ENCLOSURE

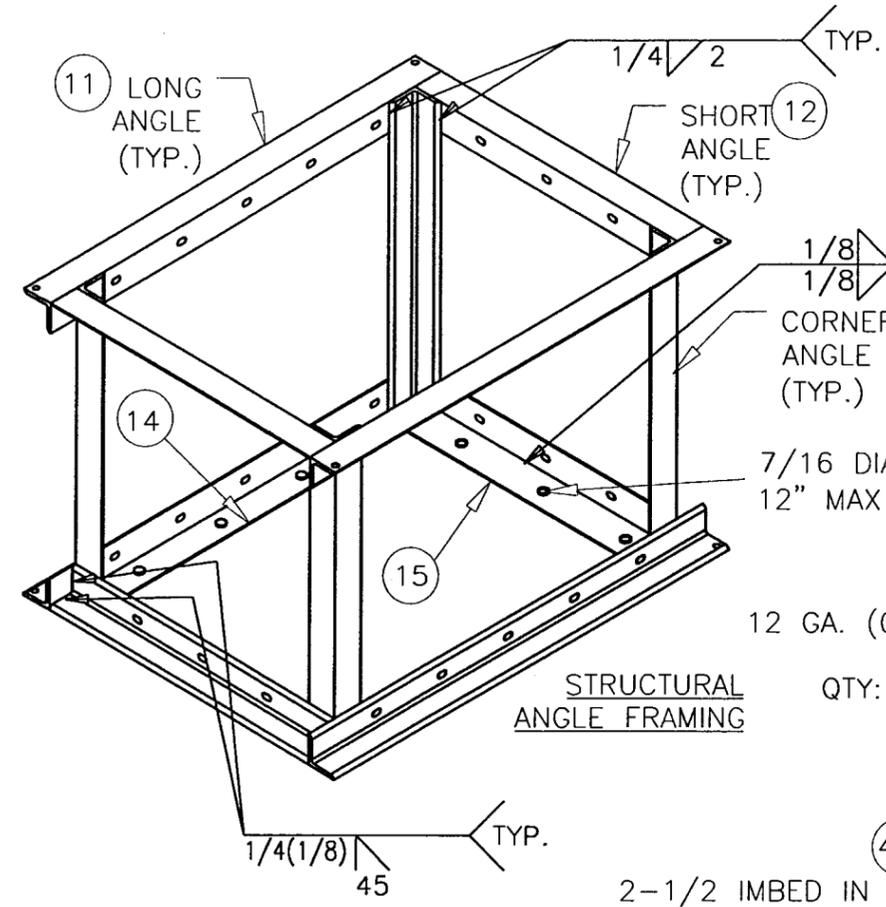
Approved as per Florida Building Code
Date 8/21/03
NDAA 03-0422.05
Miami Dade Product Control
Division *[Signature]*

[Signature]
JUL 09 2003
L. DAVID RICE

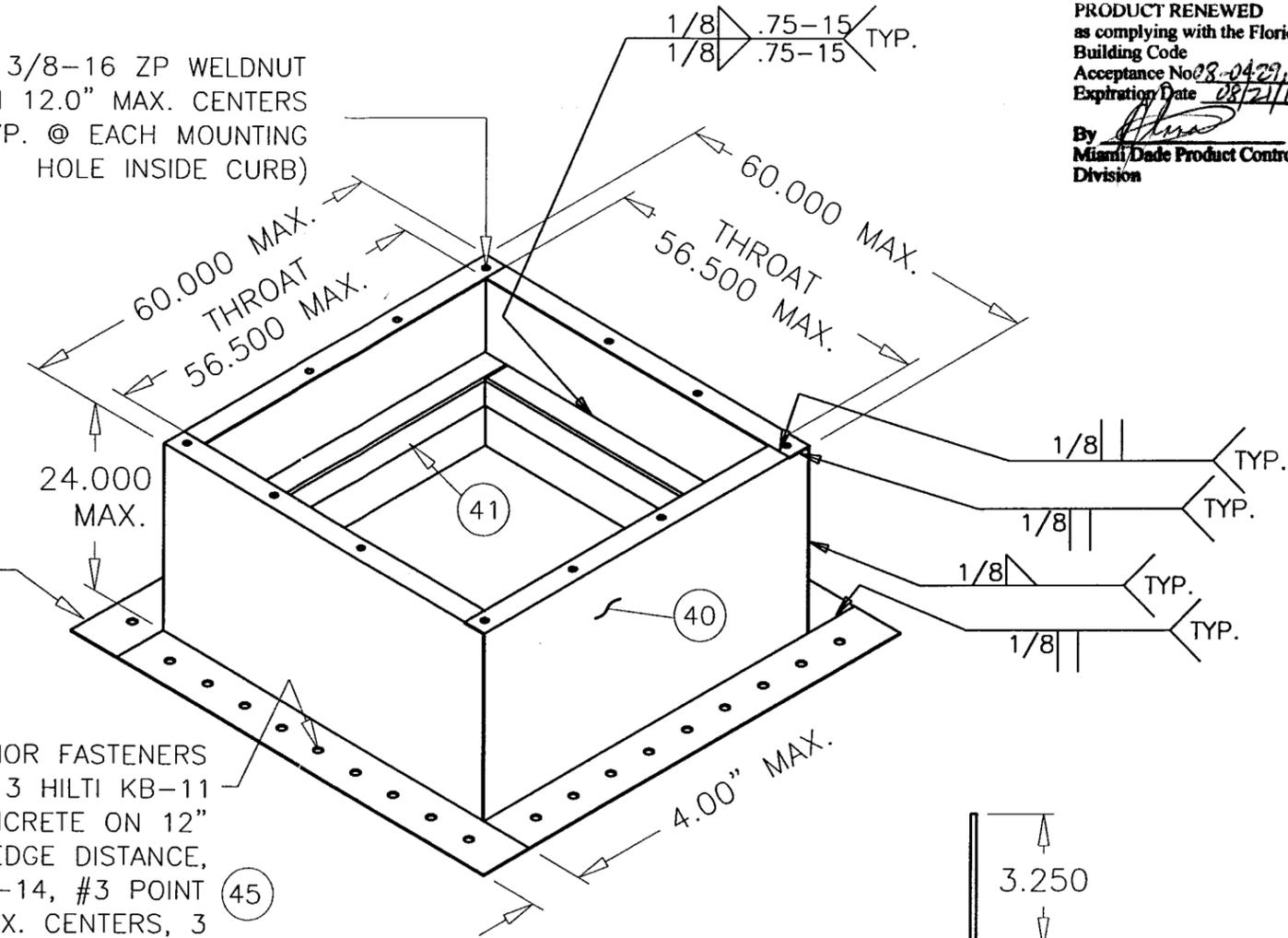
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SCALE	REVISION DATE 07/08/2003
SHEET NO. 4 OF 6	
CAD DRAWING NO. SDLE-1	
REV 4	

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DATE	01/28/2003
REVISION DATE	07/08/2003
DRAWN BY	MEYDAM
SCALE	
SHEET NO.	5 OF 6
CAD DRAWING NO.	SDLE-1
REV	4

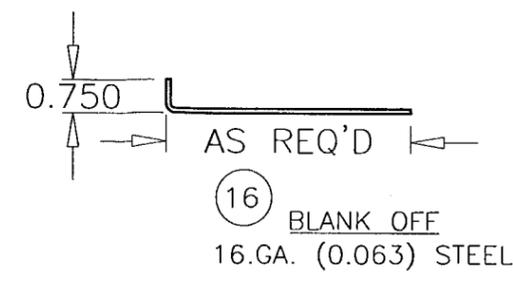
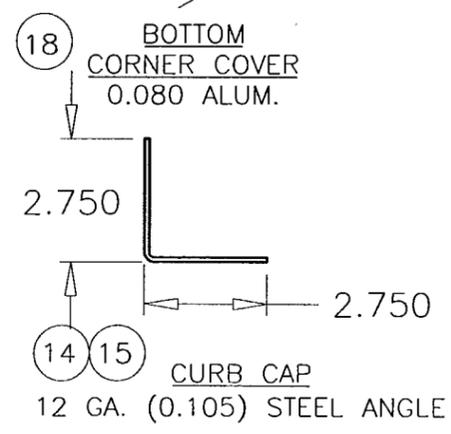
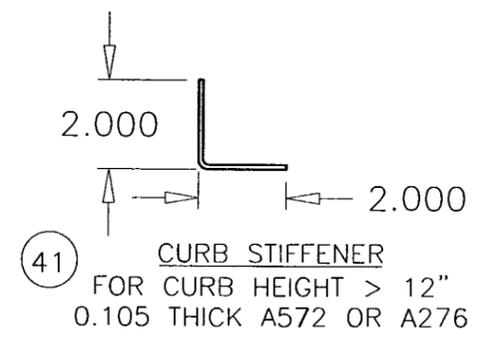
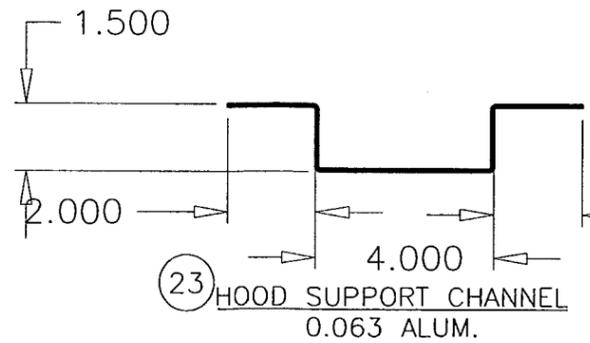
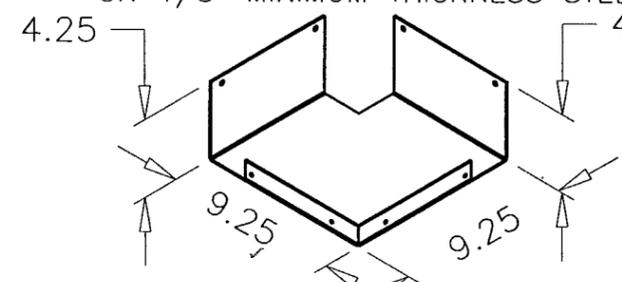
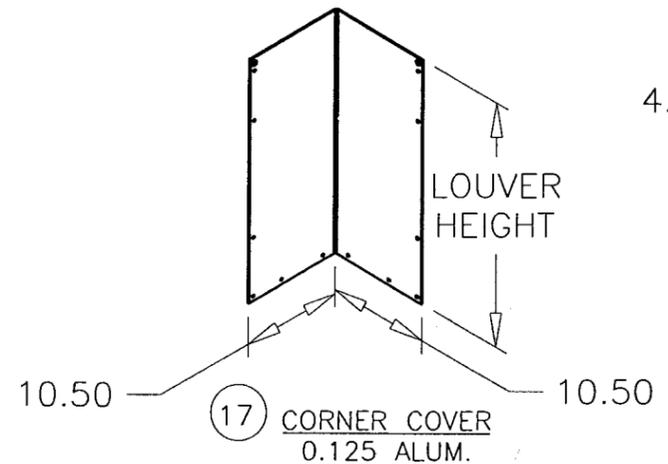


3/8-16 ZP WELDNUT
 ON 12.0" MAX. CENTERS
 (TYP. @ EACH MOUNTING
 HOLE INSIDE CURB)



1/8 3/4-6 TYP.
 1/8 3/4-6 TYP.
 7/16 DIA. ON
 12" MAX CENTERS
 CURB
 12 GA. (0.105) STEEL
 SIDE PIECE
 QTY: 4 PER UNIT
 STRUCTURAL
 ANGLE FRAMING

ANCHOR FASTENERS
 44 3/8-16 X 3 HILTI KB-11
 2-1/2 IMBED IN 3000 PSI CONCRETE ON 12"
 MAX. CENTERS, 3 1/4" MINIMUM EDGE DISTANCE,
 OR HILTI #12-14, #3 POINT
 KWIK-FLEX ON 4 1/2" MAX. CENTERS, 3
 SCREWS EACH CORNER
 45
 ON 1/8" MINIMUM THICKNESS STEEL DECK.

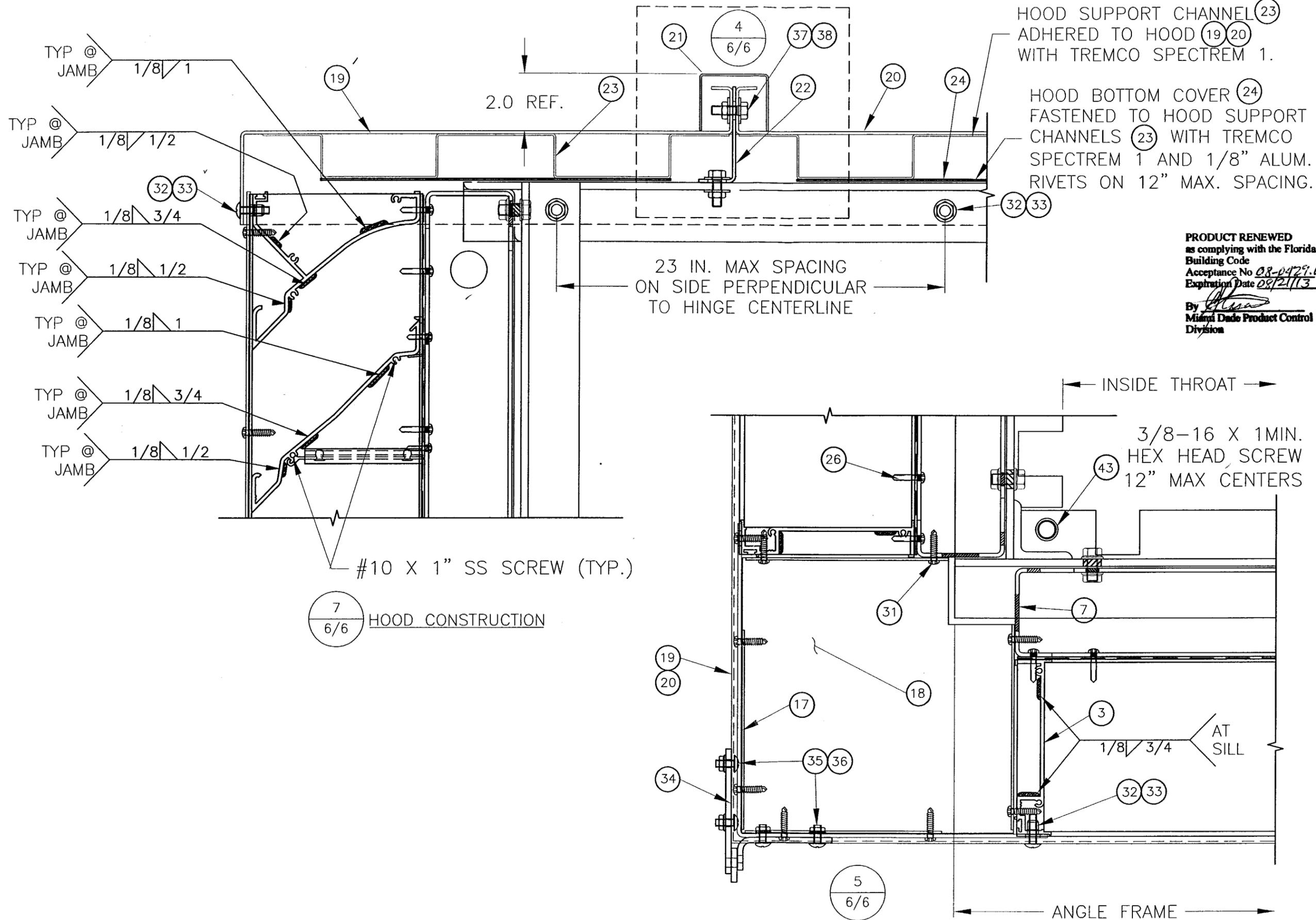


GREENHECK
 P.O. BOX 410 SCHOFIELD,
 WISCONSIN 54476-0410
 TITLE

MODEL SDLE
 SEVERE DUTY
 LOUVERED ENCLOSURE

Approved as complying with the
 Florida Building Code
 Date 8/21/03
 NOAF 03-0422.05
 Miami Dade Product Control
 Division
 By [Signature]

JUL 09 2003
 L. DAVID RICE



PRODUCT RENEWED
as complying with the Florida
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By *[Signature]*
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DRAWN BY MEYDAM	DATE 01/28/2003	REVISION DATE 07/08/2003	SHEET NO. 6 OF 6	REV. 4
SCALE				
CAD DRAWING NO. SDLE-1				

GREENHECK
P.O. BOX 410 SCHOFIELD,
WISCONSIN 54476-0410

**MODEL SDLE
SEVERE DUTY
LOUVERED ENCLOSURE**

TITLE

Approved as complying with the
Florida Building Code
Date 8/21/03
NOA# 03-042205
Miami Dade Product Control
Division
By *[Signature]*

[Signature]
JUL 09 2003
L. DAVID RICE