MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/economy

DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

Air Balance Incorporated
450 Riverside Drive
Wyalusing, PA 18853

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER-Product Control Section 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 Section (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. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section 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 A-320 6" Aluminum Louver System

APPROVAL DOCUMENT: Drawing No. **1258**, titled "Model A320 6" Louver System", sheets 1 through 7 of 7, dated 10/14/2003, with revision B1 dated 11/08/2011, prepared by W. W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaefer, P.E., bearing the Miami-Dade County Product Control revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

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, model/series, 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 **revises NOA # 13-0422.13** 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.**

MIAMI-DADE COUNTY APPROVED

06/17/2014

NOA No. 14-0423.28
Expiration Date: July 27, 2018
Approval Date: June 26, 2014

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS ***"Submitted under NOA # 11-1117-18"***

1. Drawing No. **1258**, titled "Model A320 6" Louver System", sheets 1 through 7 of 7, dated 10/14/2003, with revision B1 dated 11/08/2011, prepared by W. W. Schaefer Engineering & Consulting, P.A. signed and sealed by Warren W. Schaefer, P.E.

B. TESTS ***"Submitted under NOA # 08-1030.02"***

1. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
   2) Large Missile Impact Test per FBC, TAS 201-94
   3) Cyclic Wind Pressure Loading per FBC, TAS 203-94

   along with marked-up drawings and installation diagram, of "A.U.I. EA-22 Architectural & Non-Architectural Fixed Louver", prepared by Hurricane Test Laboratory, Inc., Report No. **0198-0811-08**, dated 09/17/2008, signed and sealed by Vinu J. Abraham, P.E.

"Submitted under NOA No. 03-0514.13"

2. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
   2) Large Missile Impact Test per FBC, TAS 201-94
   3) Cyclic Wind Pressure Loading per FBC, TAS 203-94

   along with marked-up drawings and installation diagram, of "A.U.I. EA-22 Architectural & Non-Architectural Fixed Louver", prepared by Hurricane Test Laboratory, Inc., Report No. **0199-0518-99** and **0199-0615-99**, dated 12/06/1999, signed and sealed by Vinu J. Abraham, P.E.

C. CALCULATIONS ***"Submitted under NOA # 13-0422-13"***

1. Wood anchors calculations prepared by W.W. Schaefer Engineering & Consulting, P.A., dated 04/10/2013, signed and sealed by Warren W. Schaefer, P.E.

"Submitted under NOA # 08-1030.02"

2. Revision calculations prepared by W.W. Schaefer Engineering & Consulting, P.A., dated 04/17/2008, signed and sealed by Warren W. Schaefer, P.E.

D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER)

E. MATERIAL CERTIFICATIONS

1. None.

F. STATEMENTS

1. Statement letter of code conformance to 2010 and 5th edition (2014) FBC issued by W. W. Schaefer Engineering & Consulting, P.A., dated 04/10/2014, signed and sealed by Warren W. Schaefer, P.E.

"Submitted under NOA # 13-0422-13"

2. No financial interest letter issued by W. W. Schaefer Engineering & Consulting, P.A, dated 04/10/2013, signed and sealed by Warren W. Schaefer, P.E.

06/17/2014

Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 14-0423.28
Expiration Date: July 27, 2018
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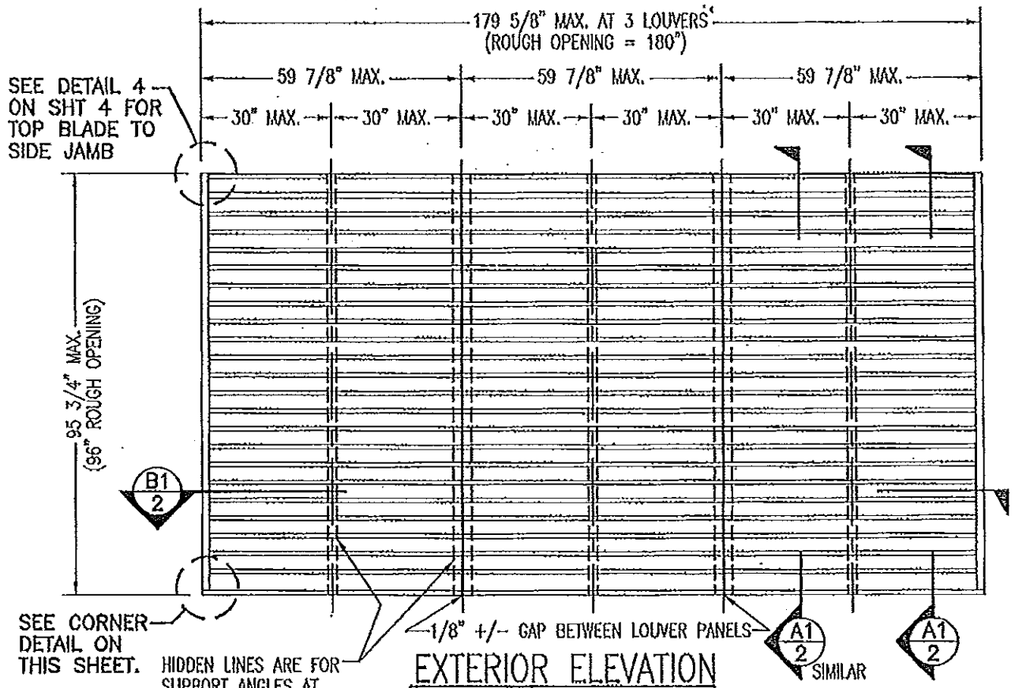
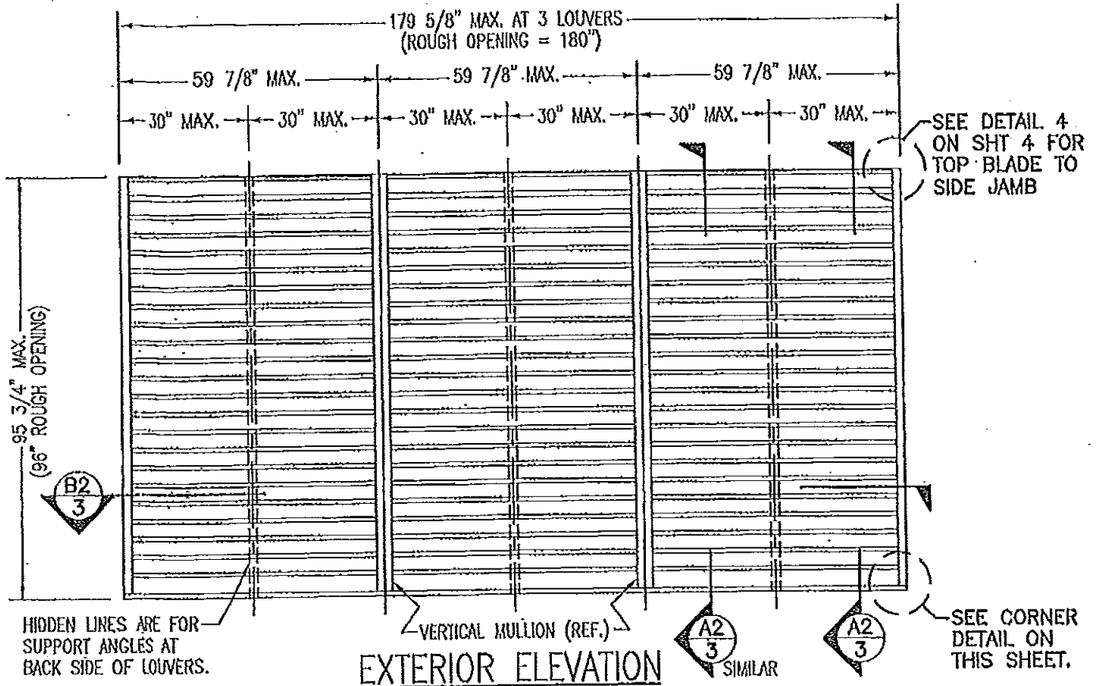


EXTERIOR ELEVATION
ARCHITECTURAL 6" LOUVER

SCALE: 3/8"=1'-0"



EXTERIOR ELEVATION
NON-ARCHITECTURAL 6" LOUVER

SCALE: 3/8"=1'-0"

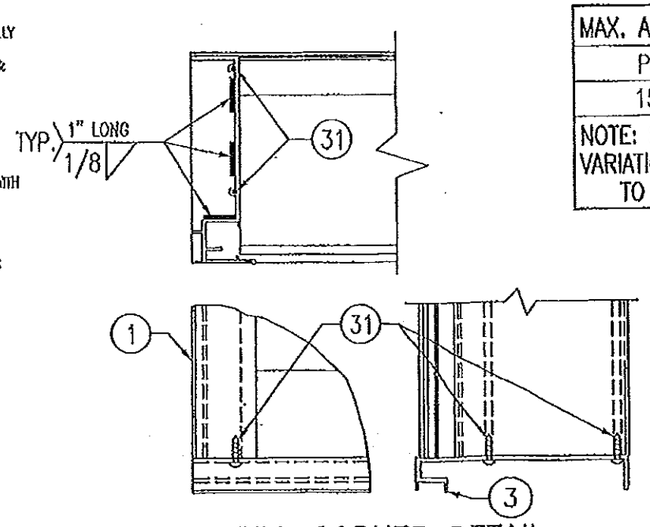
NOTE: THIS LOUVER SYSTEM MAY CONSIST OF AN UNLIMITED NUMBER OF SECTIONS PROVIDING EACH SECTION DOES NOT EXCEED 59 7/8" X 95 3/4" IN SIZE.

NOTE: THIS LOUVER SYSTEM MAY CONSIST OF AN UNLIMITED NUMBER OF SECTIONS PROVIDING EACH SECTION DOES NOT EXCEED 59 7/8" X 95 3/4" IN SIZE.

GENERAL NOTES:

1. THESE LOUVER SYSTEMS HAVE BEEN TESTED, ANALYZED & APPROVED FOR DESIGN PRESSURES NOT TO EXCEED THOSE SHOWN IN THE "ALLOWABLE DESIGN PRESSURE TABLE(S).
2. OPENINGS MUST BE PROPERLY DESIGNED & CONSTRUCTED TO TRANSFER WIND LOADS TO THE STRUCTURE.
3. ALL HARDWARE & FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS & SHALL NOT VARY UNLESS SPECIFICALLY MENTIONED ON THE DRAWINGS. SPECIFIED ANCHOR EMBED TO BASE MATERIAL SHALL BE BEYOND WALL FINISH OR STUCCO.
4. THE DETAILS & SPECIFICATIONS SHOWN HEREIN REPRESENT THE PRODUCTS TESTED & PROPOSED FOR IMPACT, CYCLIC & UNIFORM STATIC AIR PRESSURE TESTING IN CONFORMANCE WITH THE FLORIDA BUILDING CODE PROTOCALS TAS-201, 202 & 203 FOR LARGE MISSILE IMPACT LOUVERS.
5. THESE LOUVER SYSTEMS HAVE BEEN DESIGNED IN ACCORDANCE WITH AND MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE (FBC) INCLUDING HIGH VELOCITY HURRICANE ZONES (HVHZ).
6. ALL ANCHORS SECURING LOUVER FRAME TO PRESSURE TREATED DUCKS OR WOOD FRAMING SHALL BE CAPABLE OF RESISTING CORROSION CAUSED BY THE PRESSURE TREATING CHEMICALS IN THE WOOD.
7. DETERMINE THE POSITIVE & NEGATIVE DESIGN LOADS TO USE WHEN REFERENCING THESE DOCUMENTS IN ACCORDANCE WITH THE GOVERNING CODE AND GOVERNING WIND VELOCITY. FOR WIND LOAD CALCULATIONS IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, A DIRECTIONALITY FACTOR OF Kd = 0.85 MAY BE APPLIED PER THE ASCE 7 STANDARD.
8. NO INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE CERTIFICATION OF THIS PRODUCT. WIND LOAD DURATION FACTOR Cd = 1.6 WAS USED FOR WOOD SCREW ANALYSIS ONLY.
9. MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF FLORIDA BUILDING CODE CHAPTER 20.
10. MAXIMUM ALLOWABLE INDIVIDUAL PANEL SIZE = 59 7/8" X 95 3/4".
11. MAXIMUM ASSEMBLY SIZE = UNLIMITED WIDTH; UP TO 95 3/4" HEIGHT.
12. ASSEMBLIES/SECTIONS MAY BE STACKED VERTICALLY PROVIDING A STRUCTURAL SUPPORT IS DESIGNED & INSTALLED BY OTHERS TO SUPPORT ALL LOADS TRANSFERED FROM THE LOUVER ASSEMBLY.
13. MAXIMUM UNSUPPORTED BLADE LENGTH SHALL NOT EXCEED 30"
14. ALL FASTENERS SHALL BE PLATED STEEL OR 304 STAINLESS STEEL.
15. SPECIFIED SUBSTRATES REQUIREMENTS:
    - CONCRETE: MIN. 3000 PSI
    - MASONRY: MIN. C90 CMU
    - WOOD: MIN. GRADE 2; G = 0.55
    - STEEL: MIN. 1/8" THICK A36 (36 KSI)
16. THIS SYSTEM HAS NOT BEEN TESTED FOR WATER INFILTRATION RESISTANCE & IS NOT A WATER RESISTANT SYSTEM.
17. EACH LOUVER ASSEMBLY SHALL BE PERMANENTLY LABELED AS FOLLOWS:
    AIR BALANCE INC.
    WYALUSING, PA
    MIAMI-DADE COUNTY PRODUCT CONTROL APPROVED

MAX. ALLOWABLE DESIGN WIND PRESSURE	
POSITIVE	NEGATIVE
150 PSF	150 PSF
NOTE: SEE LOAD TABLE ON SHEET 7 FOR VARIATIONS OF PRESSURES WITH RESPECT TO PANEL WIDTH & CLIP SPACING.	



SILL CORNER DETAIL

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 14-0423.28
Expiration Date 07/27/2018
By
Miami Dade Product Control

PRODUCT RENEWED
as complying with the Florida Building Code
Acceptance No 13-0422.13
Expiration Date 07/27/2018
By
Miami Dade Product Control

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 11-1117.18
Expiration Date 07/27/2013
By
Miami Dade Product Control

WARREN W. SCHAEFER LICENSE No. 44135 STATE OF FLORIDA PROFESSIONAL ENGINEER

NOV 08 2011

WARREN W. SCHAEFER P.E. NO. 44135

NO.	REVISION DESCRIPTION	BY	DATE
A2	UPDATE FOR CODE COMPLIANCE	W.R.M.	04/17/08
B1	UPDATE TO CURRENT STANDARDS	W.R.M.	11/09/11

DRAWN BY: K.P.S. | CHECKED BY: W.W.S.
PLOT: 1=1 | DATE: 10/14/03

DRAWING TITLE: MODEL A320 6" LOUVER SYSTEM
MANUFACTURER

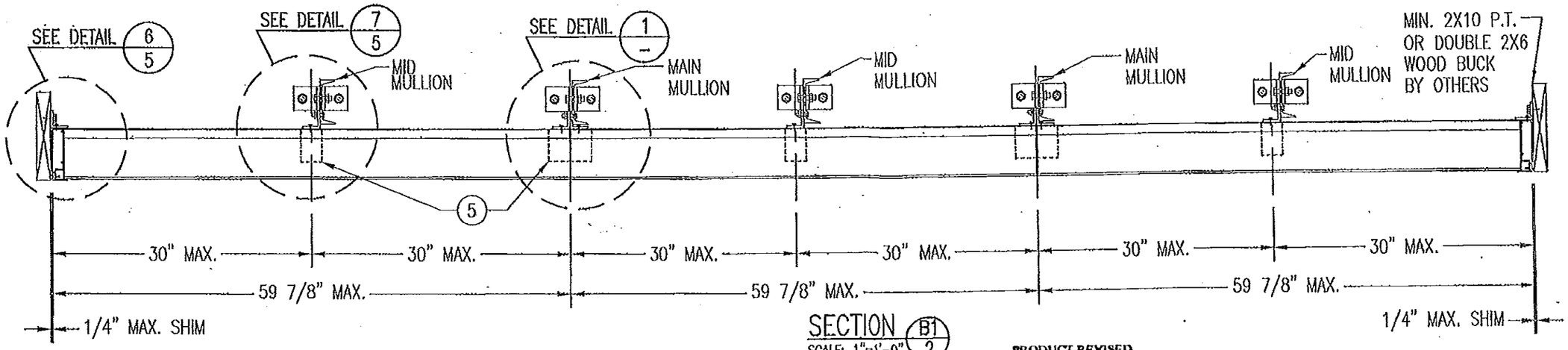
CONSULTANTS
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)
7480 150TH COURT NORTH
PALM BEACH GARDENS, FL 33418
PHONE 561-744-3424

CERTIFICATION

AIR BALANCE INC.
450 RIVERSIDE DRIVE
WYALUSING, PA 18853
570-746-1888

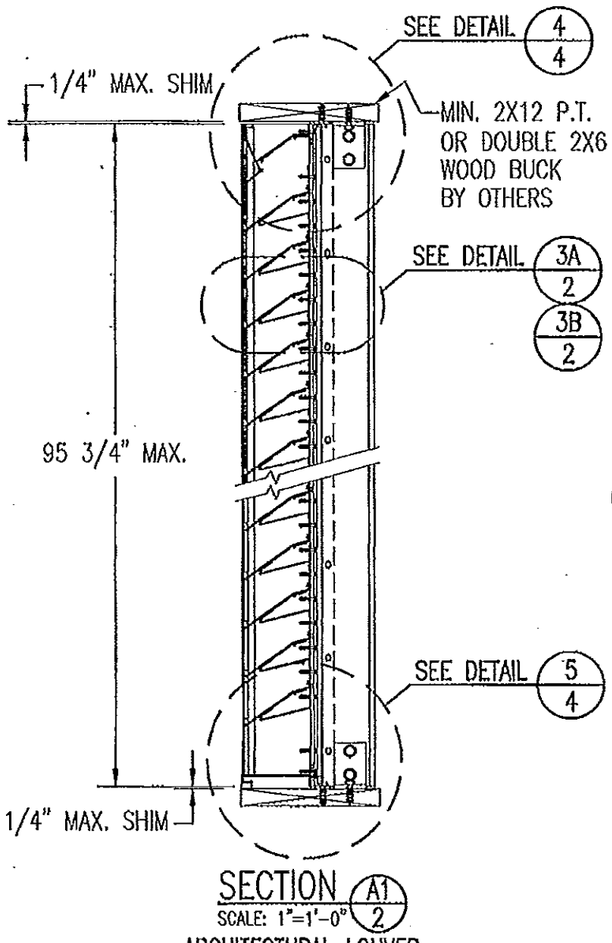
THESE DRAWINGS ARE APPLICABLE ONLY TO THE PRODUCT SPECIFIED. THEY MAY NOT BE USED FOR THE ASSEMBLY AND/OR INSTALLATION OF ANY OTHER PRODUCT NOR MAY THEY BE USED FOR RATIONAL AND/OR LOCAL APPROVAL OF ANY PRODUCT NOT PRODUCED BY THE MANUFACTURER STATED ON THESE DRAWINGS.

DRAWING NO. 1258 | REV. B
SHEET NO. 1 OF 7

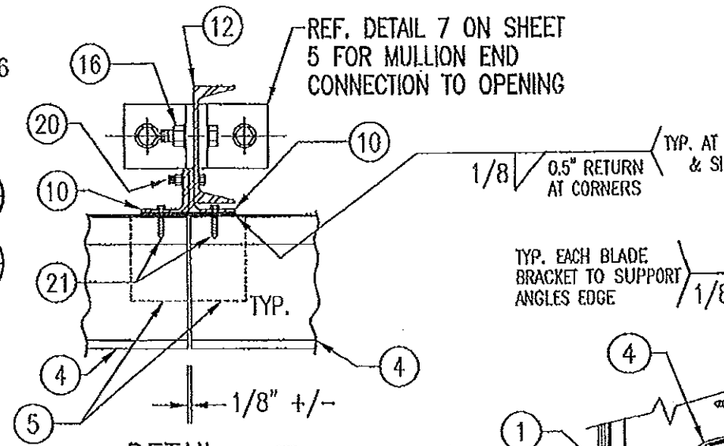


SECTION B1/2
SCALE: 1"=1'-0"
ARCHITECTURAL LOUVER

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 14-0423.28
Expiration Date 07/27/2018
By
Miami Dade Product Control

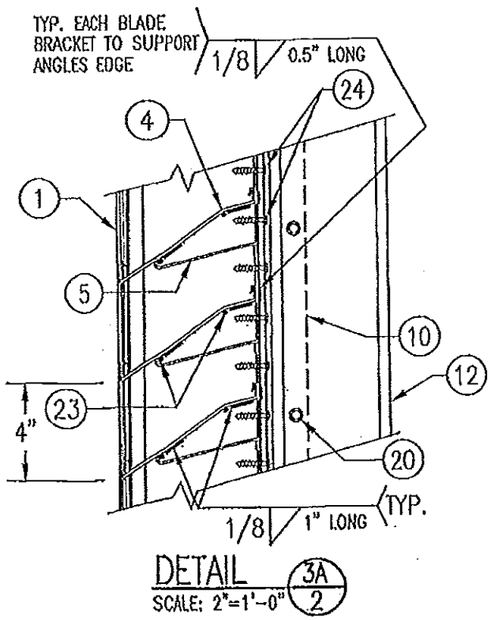


SECTION A1/2
SCALE: 1"=1'-0"
ARCHITECTURAL LOUVER

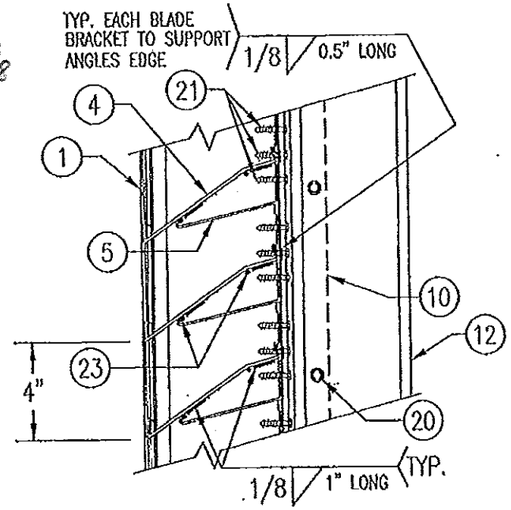


DETAIL 1/–
SCALE: 2"=1'-0"
ARCHITECTURAL LOUVER

PRODUCT RENEWED
as complying with the Florida Building Code
Acceptance No 13-0422.13
Expiration Date 07/27/2018
By
Miami Dade Product Control



DETAIL 3A/2
SCALE: 2"=1'-0"
TYP. AT ALL MID SPAN MULLIONS



DETAIL 3B/2
SCALE: 2"=1'-0"
TYP. AT ALL MAIN ARCHITECTURAL MULLIONS

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 11-1117.18
Expiration Date 07/27/2013
By
Miami Dade Product Control

WARREN W. SCHAEFER LICENSE No. 44135 STATE OF FLORIDA PROFESSIONAL ENGINEER

NO.	REVISION DESCRIPTION	BY	DATE

DRAWN BY: K.P.S.
CHECKED BY: W.W.S.
PLOT: 1=12
DATE: 10/14/03

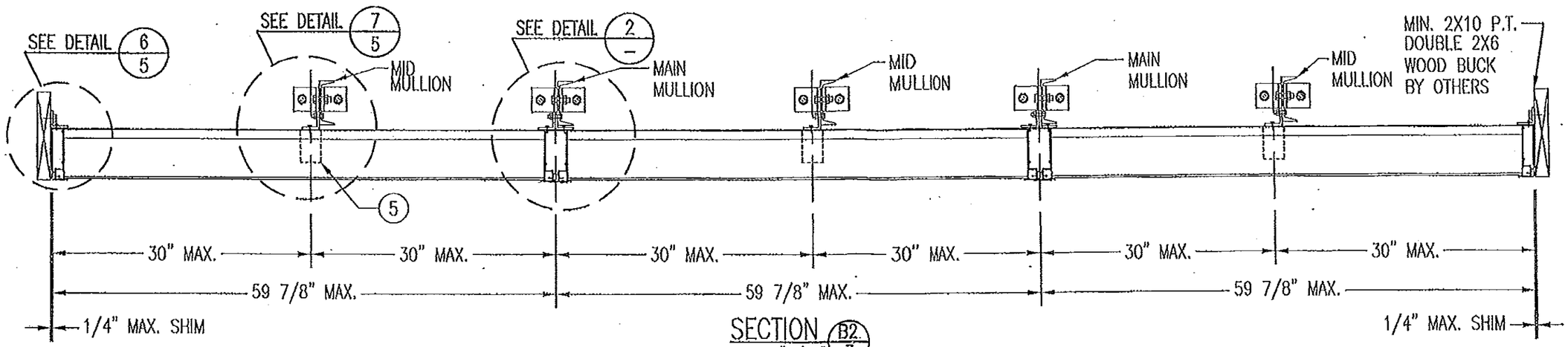
MANUFACTURER
AIR BALANCE INC.
450 RIVERSIDE DRIVE
WYALUSING, PA 18853
570-746-1888

DRAWING TITLE
MODEL A320 6" LOUVER SYSTEM

CONSULTANTS
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)
7480 150TH COURT NORTH
PALM BEACH GARDENS, FL 33418
PHONE: 561-744-3424

CERTIFICATION
NOV 08 2011
WARREN W. SCHAEFER P.E.
P.E. NO. 44135

DRAWING NO. 1258
REV. B
SHEET NO. 2 OF 7



SECTION B2/3
SCALE: 1"=1'-0"

NON-ARCHITECTURAL LOUVER

PRODUCT REVISED
as complying with the Florida Building Code
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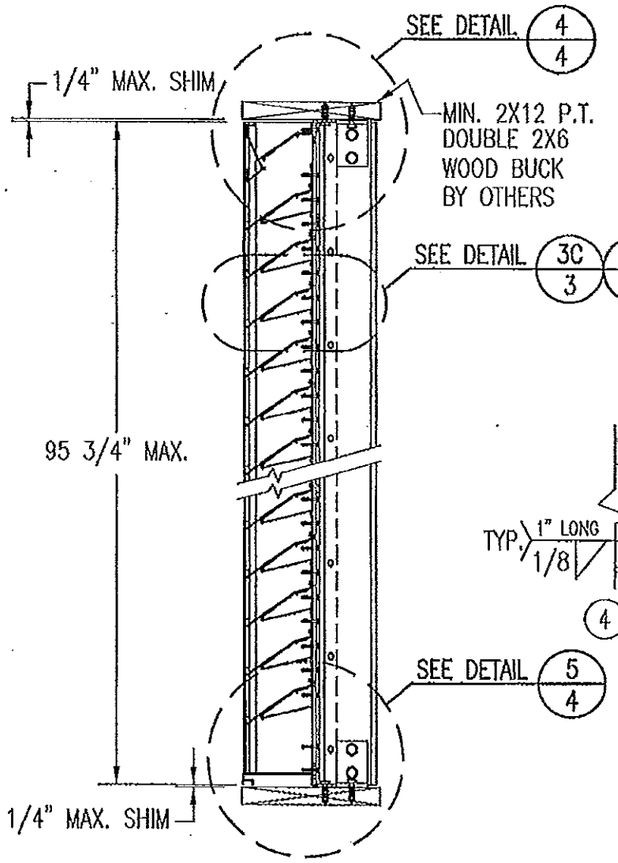
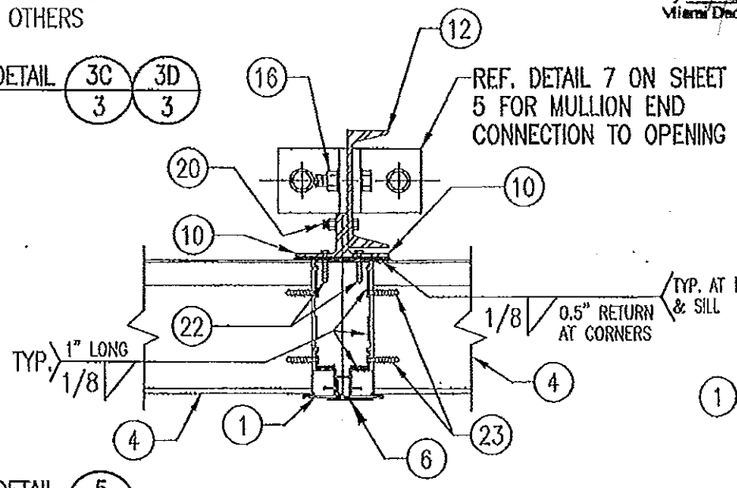
Expiration Date 07/27/2018
By
Miami Dade Product Control

PRODUCT RENEWED
as complying with the Florida Building Code
Acceptance No 13-0422.13
Expiration Date 07/27/2018
By
Miami Dade Product Control



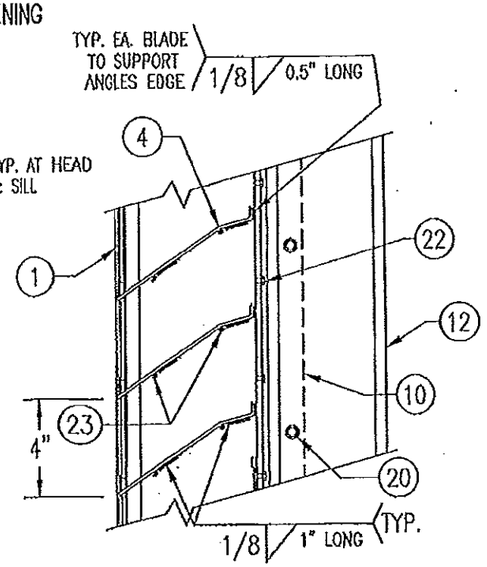
SECTION A2/3
SCALE: 1"=1'-0"

NON-ARCHITECTURAL LOUVER



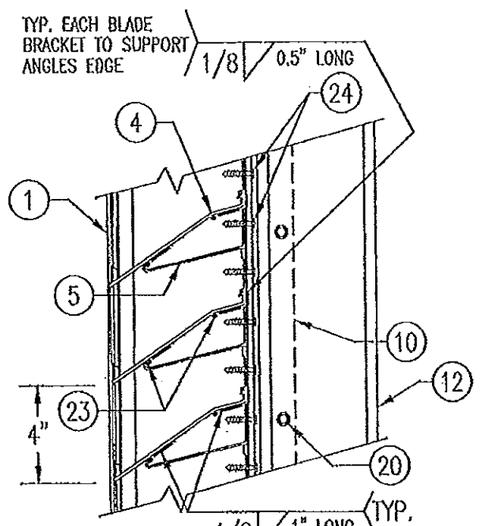
DETAIL 2/—
SCALE: 2"=1'-0"

NON-ARCHITECTURAL LOUVER
NOTE: SIDE JAMBS ARE ADDITIONALLY FASTENED TO THE SILL WITH 2 NO. 8 X 3/4" SMS THROUGH SILL & INTO JAMB SPLINES.



DETAIL 3C/3
SCALE: 2"=1'-0"

TYP. AT ALL MAIN NON-ARCHITECTURAL MULLIONS



DETAIL 3D/3
SCALE: 2"=1'-0"

TYP. AT ALL MID SPAN MULLIONS

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 11-1117.18
Expiration Date 07/27/2018
By
Miami Dade Product Control

WARREN W. SCHAEFER LICENSE NO. 44135 STATE OF FLORIDA PROFESSIONAL ENGINEER

NOV 08 2017

NO.	REVISION DESCRIPTION	BY	DATE

DRAWN BY: K.P.S.
CHECKED BY: W.W.S.
PLOT: 1=12
DATE: 10/14/03

MANUFACTURER
AIR BALANCE INC.
450 RIVERSIDE DRIVE
WYALUSING, PA 18853
570-746-1888

DRAWING TITLE
MODEL A320 6" LOUVER SYSTEM

CONSULTANTS
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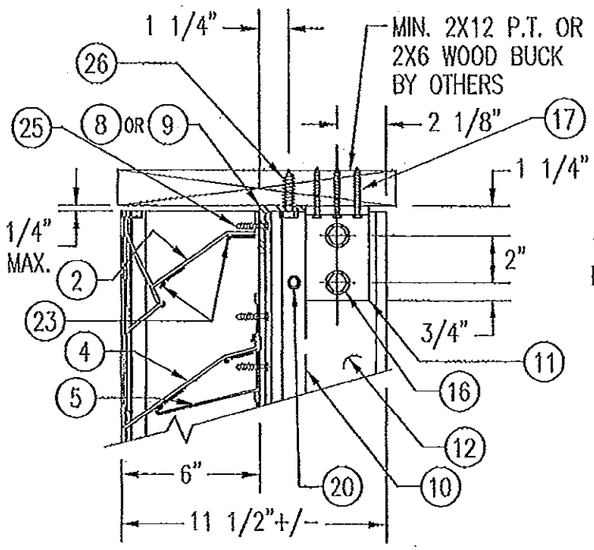
7480 150TH COURT NORTH
PALM BEACH GARDENS, FL 33418
PHONE 561-744-3424

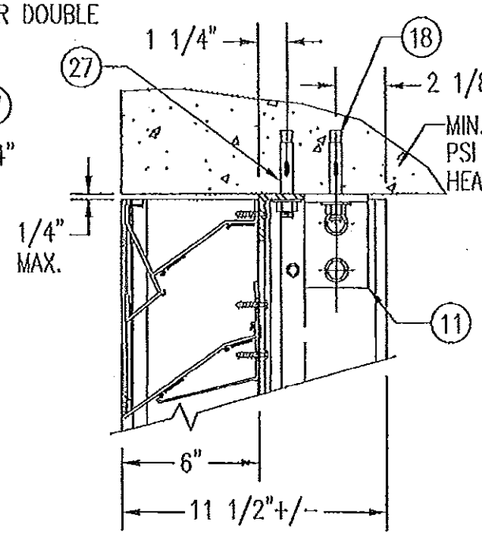
WARREN W. SCHAEFER P.E.
P.E. NO. 44135

DRAWING NO. 1258
REV. B
SHEET NO. 3 OF 7



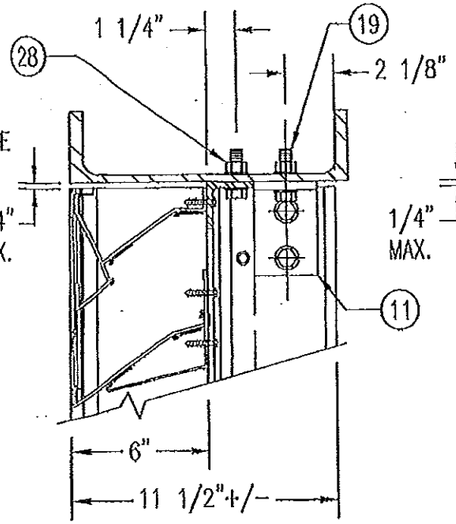
WOOD FRAMED OPENING

SEE "DETAIL 3A & 3B" FOR LOUVER BLADE DETAILS



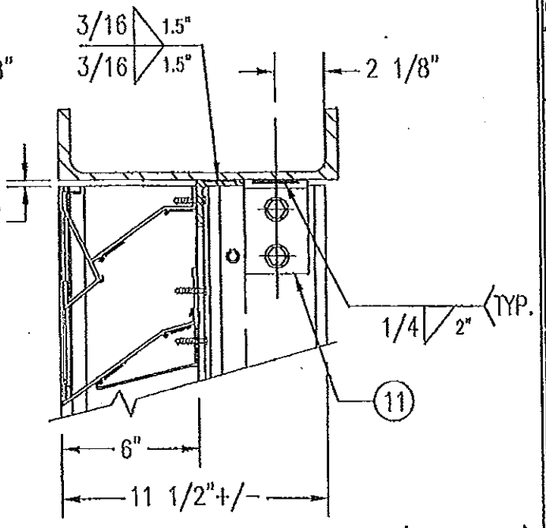
CONCRETE HEAD

SEE "WOOD OPENING" FOR DETAIL NOT SHOWN
(MASONRY ACCEPTABLE AT SIDES ONLY AND MAY NOT BE USED AT HEAD OR SILL)



STEEL FRAME OPENING (BOLTED)

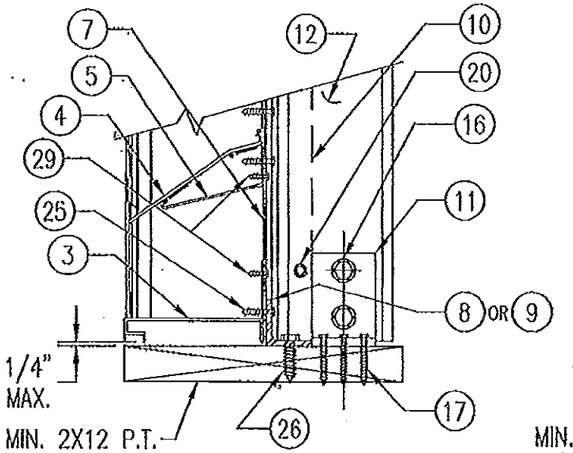
SEE "WOOD OPENING" FOR DETAIL NOT SHOWN



STEEL FRAME OPENING (WELDED)

SEE "WOOD OPENING" FOR DETAIL NOT SHOWN

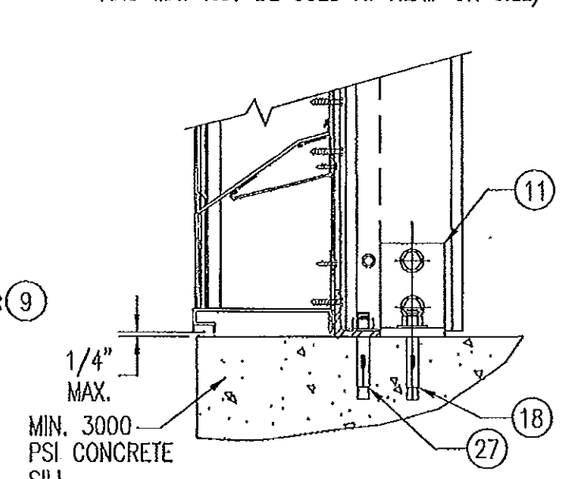
DETAIL 4/4
SCALE: 2"=1'-0"



WOOD FRAMED OPENING

SEE "DETAIL 3A & 3B" FOR LOUVER BLADE DETAILS

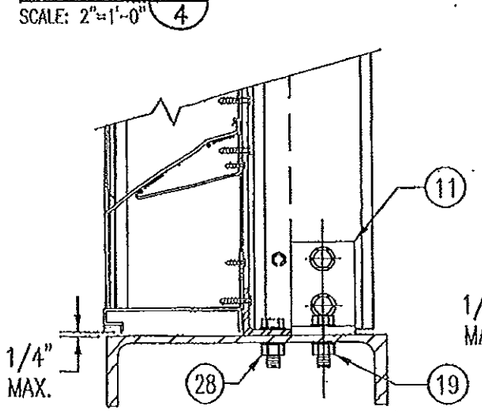
MASONRY MAY ONLY BE USED AT SIDES OF LOUVER PANELS & MAY NOT BE USED AT THE HEAD OR SILL.



CONCRETE SILL

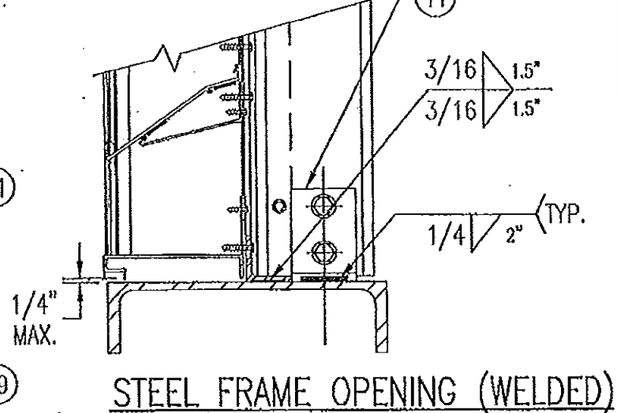
SEE "WOOD OPENING" FOR DETAIL NOT SHOWN
(MASONRY ACCEPTABLE AT SIDES ONLY AND MAY NOT BE USED AT HEAD OR SILL)

DETAIL 5/4
SCALE: 2"=1'-0"



STEEL FRAME OPENING (BOLTED)

SEE "WOOD OPENING" FOR DETAIL NOT SHOWN



STEEL FRAME OPENING (WELDED)

SEE "WOOD OPENING" FOR DETAIL NOT SHOWN

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 14-0423.29
Expiration Date 07/27/2018
By
Miami Dade Product Control

PRODUCT RENEWED
as complying with the Florida Building Code
Acceptance No 13-0423.13
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Miami Dade Product Control

PRODUCT REVISED
as complying with the Florida Building Code
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Expiration Date 07/27/2013
By
Miami Dade Product Control

LICENSE WARREN W. SCHAEFER No. 44135 STATE OF FLORIDA PROFESSIONAL ENGINEER

NO.	REVISION DESCRIPTION	BY	DATE

DRAWN BY: K.P.S. | CHECKED BY: W.W.S.
PLOT: 1=1 | DATE: 10/14/03

MODEL A320 6" LOUVER SYSTEM

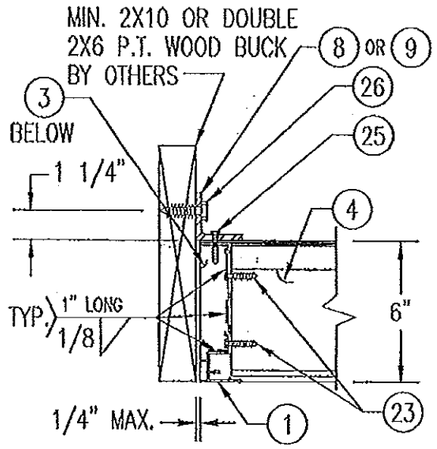
MANUFACTURER
AIR BALANCE INC.
450 RIVERSIDE DRIVE
WYALUSING, PA 18853
570-746-1888

CONSULTANTS
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)
7480 150TH COURT NORTH
PALM BEACH GARDENS, FL 33418
PHONE: 561-744-3424

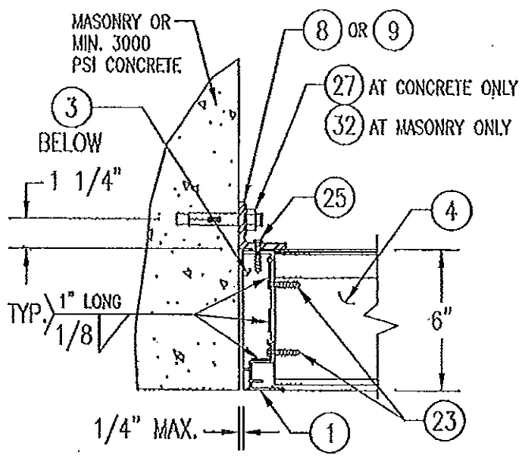
DRAWING TITLE

CERTIFICATION
NOV 08 2011
WARREN W. SCHAEFER P.E.
P.E. NO. 44135

DRAWING NO. 1258 | REV. B
SHEET NO. 4 OF 7

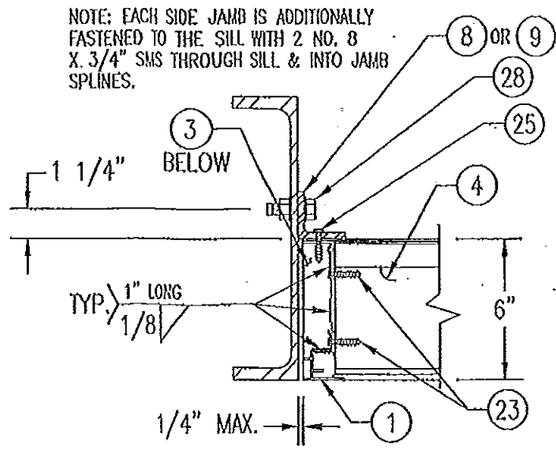


WOOD FRAMED OPENING

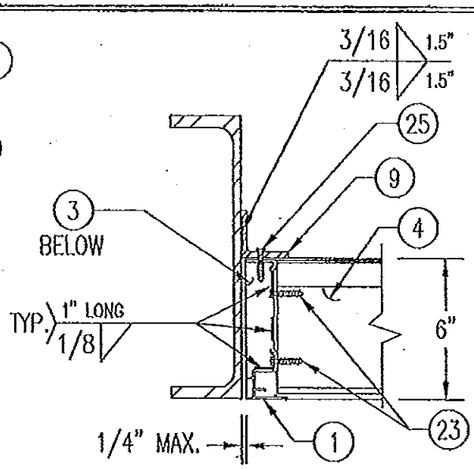


CONCRETE/MASONRY OPENING

(MASONRY ACCEPTABLE AT SIDES ONLY AND MAY NOT BE USED AT HEAD OR SILL)

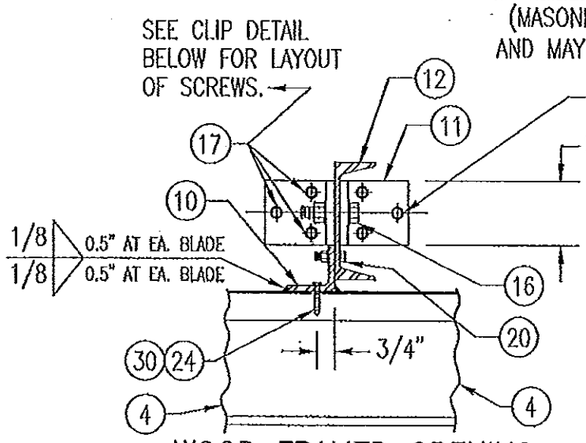


STEEL FRAME OPENING (BOLTED)

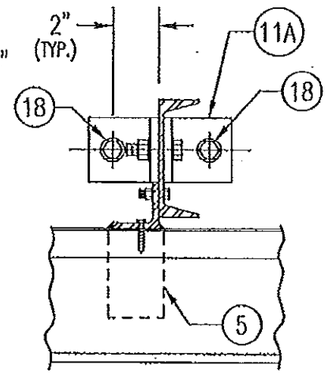


STEEL FRAME OPENING (WELDED)

DETAIL 6/5
SCALE: 2"=1'-0"



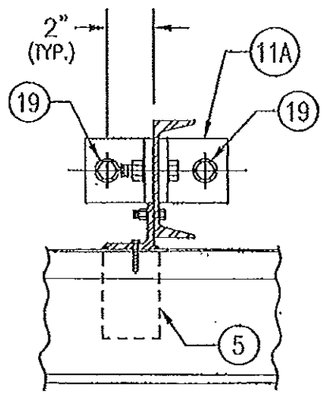
WOOD FRAMED OPENING



CONCRETE HEAD & SILL

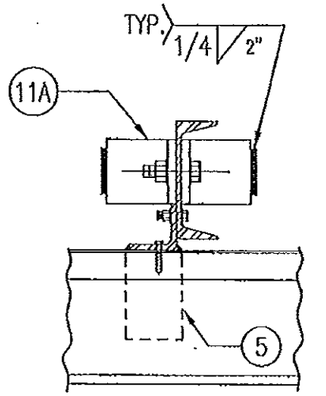
SEE "WOOD OPENING" FOR DETAIL NOT SHOWN
(MASONRY ACCEPTABLE AT SIDES ONLY AND MAY NOT BE USED AT HEAD OR SILL)

DETAIL 7/5
SCALE: 2"=1'-0"



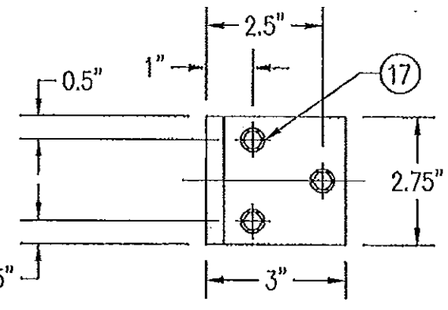
STEEL FRAME OPENING (BOLTED)

SEE "WOOD OPENING" FOR DETAIL NOT SHOWN



STEEL FRAME OPENING (WELDED)

SEE "WOOD OPENING" FOR DETAIL NOT SHOWN



MULLION CLIP DETAIL @ WOOD INSTALLATION

MASONRY MAY ONLY BE USED AT SIDES OF LOUVER PANELS & MAY NOT BE USED AT THE HEAD OR SILL.

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 4-0423.18
Expiration Date 07/27/2018
By
Miami Dade Product Control

PRODUCT RENEWED
as complying with the Florida Building Code
Acceptance No 13-0422.13
Expiration Date 07/27/2018
By
Miami Dade Product Control

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 11-1117.18
Expiration Date 07/27/2018
By
Miami Dade Product Control

WARREN W. SCHAEFER * ENGINEER * LICENSE No. 44135 * STATE OF FLORIDA * PROFESSIONAL

CERTIFICATE OF AUTHORIZATION
NOV 08 2011
WARREN W. SCHAEFER P.E.
P.E. NO. 44135

NO.	REVISION DESCRIPTION	BY	DATE

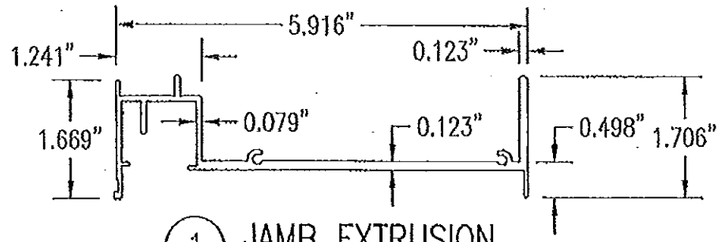
DRAWN BY: K.P.S.
CHECKED BY: W.W.S.
FLOR: 1=8
DATE: 10/14/03

DRAWING TITLE: MODEL A320 6" LOUVER SYSTEM

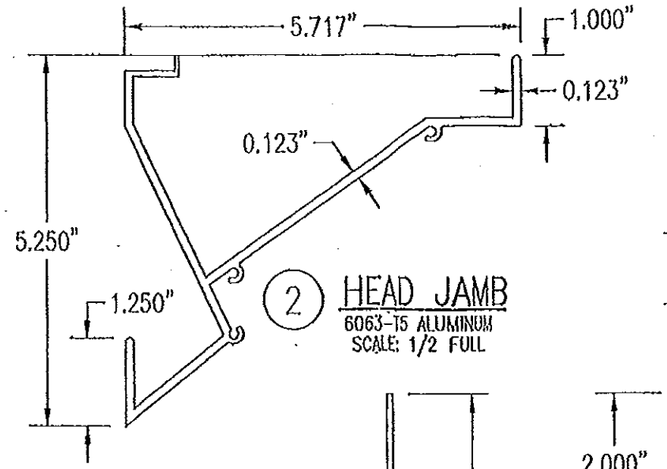
MANUFACTURER
AIR BALANCE INC.
450 RIVERSIDE DRIVE
WYALUSING, PA 18853
570-746-1888

CONSULTANTS
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)
7480 150TH COURT NORTH
PALM BEACH GARDENS, FL 33418
PHONE: 561-744-3424

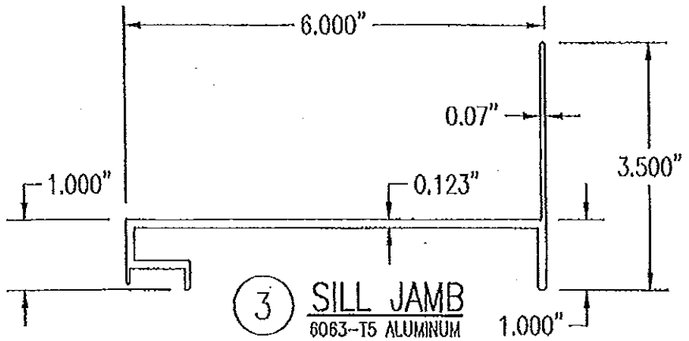
DRAWING NO. 1258
REV. B
SHEET NO. 5 OF 7



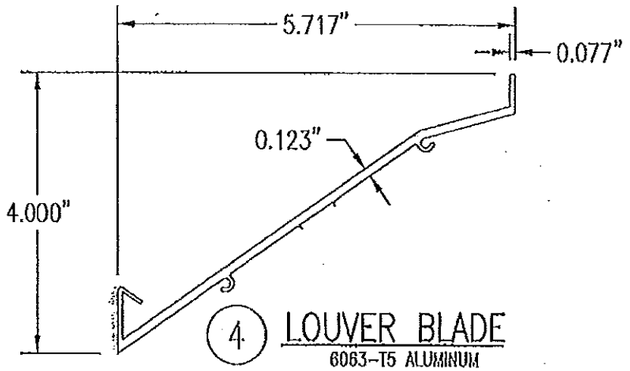
1 JAMB EXTRUSION
6063-T5 ALUMINUM
SCALE: 1/2 FULL



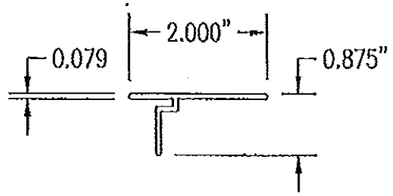
2 HEAD JAMB
6063-T5 ALUMINUM
SCALE: 1/2 FULL



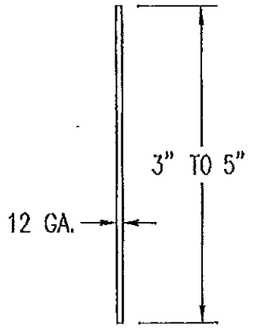
3 SILL JAMB
6063-T5 ALUMINUM
SCALE: 1/2 FULL



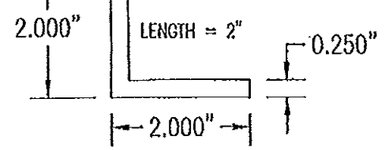
4 LOUVER BLADE
6063-T5 ALUMINUM
SCALE: 1/2 FULL



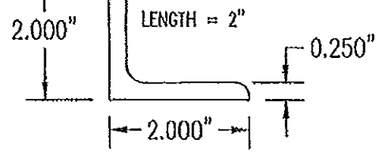
6 MULLION CAP
6063-T5 ALUMINUM
SCALE: 1/2 FULL



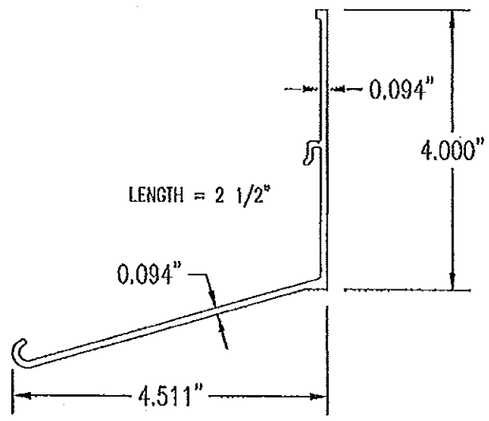
7 SILL PLATE
3003/5005 ALUMINUM
SCALE: 1/2 FULL



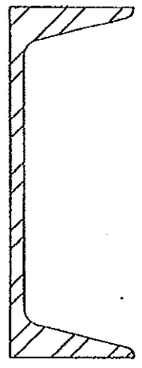
8 CONNECTION ANGLE
6063-T5 ALUMINUM
SCALE: 1/2 FULL



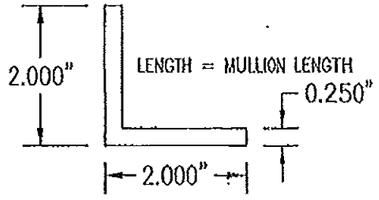
9 CONNECTION ANGLE
A36 STEEL
SCALE: 1/2 FULL



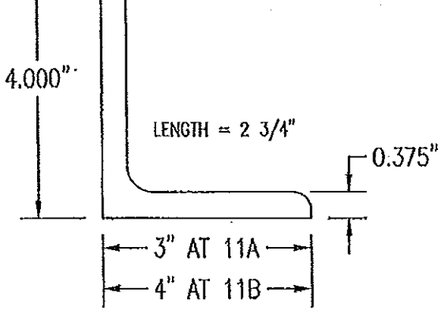
5 BLADE SUPPORT BRACKET
6063-T5 ALUMINUM
SCALE: 1/2 FULL



12 C5X6.7 MULLION
A36 STEEL
SCALE: 1/2 FULL



10 MULLION ANGLE
6063-T5 ALUMINUM
SCALE: 1/2 FULL



11A 11B MULLION END CONNECTION ANGLE
A36 STEEL
SCALE: 1/2 FULL

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 14-0423.28
Expiration Date 07/27/2018
By
Miami Dade Product Control

PRODUCT RENEWED
as complying with the Florida Building Code
Acceptance No 13-0422.13
Expiration Date 07/27/2018
By
Miami Dade Product Control

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 11-1117.18
Expiration Date 07/27/2013
By
Miami Dade Product Control

WARREN W. SCHAEFER LICENSE No. 44135 STATE OF FLORIDA PROFESSIONAL ENGINEER

DRAWN BY: K.P.S.	CHECKED BY: W.W.S.
PLOT: 1=2	DATE: 10/14/03

NO.	REVISION DESCRIPTION	BY	DATE

DRAWING TITLE: MODEL A320 6" LOUVER SYSTEM

MANUFACTURER: AIR BALANCE INC.
450 RIVERSIDE DRIVE
WYALUSING, PA 18853
570-746-1888

CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)
7480 150TH COURT NORTH
PALM BEACH GARDENS, FL 33418
PHONE: 561-744-3424

CERTIFICATION
NOV 08 2011
WARREN W. SCHAEFER P.E.
P.E. NO. 44135

DRAWING NO. 1258 REV. B
SHEET NO. 6 OF 7

ALLOWABLE WIND PRESSURE VS. JAMB CLIP SPACING AND PANEL WIDTH

PANEL WIDTH (INCHES)	CLIP SPACING (INCHES)	ALLOWABLE PRESSURE WITH MID SPAN MULLION (PSF)	ALLOWABLE PRESSURE WITHOUT MID SPAN MULLION (PSF)
16	8	150	150
	12	150	150
	16	150	140
	20	150	105
	24	150	70
20	8	150	150
	12	150	140
	16	150	112
	20	150	84
	24	150	56
24	8	150	140
	12	150	117
	16	150	93
	20	150	70
	24	125	47
28	8	150	82
	12	150	68
	16	150	54
	20	150	41
	24	107	27
30	8	150	62
	12	150	52
	16	150	41
	20	140	31
	24	93	--
36	8	150	--
	12	150	--
	16	150	--
	20	125	--
	24	83	--
42	8	150	--
	12	150	--
	16	142	--
	20	107	--
	24	71	--
48	8	150	--
	12	150	--
	16	125	--
	20	93	--
	24	62	--
54	8	150	--
	12	138	--
	16	111	--
	20	83	--
	24	55	--
60	8	150	--
	12	125	--
	16	100	--
	20	75	--
	24	50	--

MATERIAL LIST

NO.	DESCRIPTION	NOTES/SPECIFICATIONS
		PARTS/EXTRUSIONS
1	SIDE JAMB FRAME/MULLION	6063-T5 ALUMINUM
2	HEAD FRAME	6063-T5 ALUMINUM
3	SILL FRAME	6063-T5 ALUMINUM
4	LOUVER BLADE	6063-T5 ALUMINUM
5	BLADE SUPPORT BRACKET (2 1/2" LONG)	6063-T5 ALUMINUM
6	MULLION CAP	6063-T5 ALUMINUM; FULL LENGTH OF MULLION JAMBS
7	SILL PLATE	3003/5005 ALUMINUM; FULL LENGTH OF PANEL SILL
8	L2X2X1/4 JAMB CONNECTION ANGLE 2" LONG	6063-T5 ALUMINUM; WITHIN 4" OF JAMB ENDS & SPACED PER LOAD TABLE ON SHT. 2
9	L2X2X1/4 OPTIONAL JAMB CONNECTION ANGLE 2" LONG	A36 STEEL; WITHIN 4" OF JAMB ENDS & SPACED PER LOAD TABLE ON SHT. 2
10	L2X2X1/4 CONTINUOUS MULLION CONNECTION ANGLE	6063-T5 ALUMINUM; FULL LENGTH OF CHANNEL MULLION
11	L4X3X3/8 MULLION END CONNECTION ANGLE 2 3/4" LONG	A36 STEEL; 2 PER MULLION END
12	C5X6.7 MULLION	A36 STEEL; FULL HEIGHT OF PANELS
13	OPEN	
14	OPEN	
15	OPEN	
		FASTENERS
16	1/2" X 2" A307 HEX HEAD PLATED STEEL OR S/STL BOLT	WITH FLAT WASHERS, LOCK WASHER & NUT; 2 PER MULLION END
17	NO. 14 S.S. SMS SCREWS	3 PER MULLION END CLIP WITH MIN. 1 1/2" WOOD EMBED
18	5/8" X 2 1/4" SLEEVE ANCHOR WITH FLAT WASHER	USA KINGPIN ANCHOR; 1 PER CHANNEL END CONNECTION ANGLE INTO CONCRETE ONLY
19	1/2" X 2" A307 HEX HEAD PLATED STEEL OR S/STL BOLT	WITH FLAT WASHERS, LOCK WASHER & NUT; 1 PER CHANNEL END CONNECTION ANGLE INTO STEEL FRAME
20	5/16-18 UNC X 1 1/2" HEX HEAD STEEL OR S/STL BOLT	WITH FLAT WASHER, LOCK WASHER & NUT; WITHIN 4" OF MULLION ENDS & MAX. 8" O.C.
21	NO. 14 X 1 1/4" HILTI TEK SCREW	3 AT EACH LOUVER BLADE SUPPORT BRACKET AT ARCHITECTURAL MAIN MULLIONS
22	NO. 14 X 1 1/4" HILTI TEK SCREW	WITHIN 1 1/4" OF MULLION ENDS & MAX. 4" O.C. INTO FRAME
23	NO. 8 X 3/4" SMS	2 PER EACH LOUVER BLADE END THROUGH JAMB & INTO BLADE SPLINES
24	NO. 14 X 1 1/4" HILTI TEK SCREW	2 AT EACH LOUVER BLADE SUPPORT BRACKET AT ALL MIDSPAN MULLIONS
25	NO. 14 X 1 1/4" HILTI TEK SCREW	2 PER EACH HEAD, SILL & SIDE JAMB CONNECTION ANGLE
26	1/2" X 2" LAG SCREW WITH FLAT WASHER	1 PER EACH HEAD, SILL & SIDE JAMB CONNECTION ANGLE INTO WOOD FRAME
27	5/8" X 2 1/4" SLEEVE ANCHOR WITH FLAT WASHER	USA KINGPIN ANCHOR; 1 PER EACH HEAD, SILL & SIDE JAMB CONNECTION ANGLE INTO CONCRETE ONLY
28	1/2" X 2" HEX HEAD A307 PLATED STEEL OR S/STL BOLT	WITH FLAT WASHERS, LOCK WASHER & NUT; 1 PER EA. JAMB CONNECTION ANGLE INTO STEEL FRAME
29	NO. 8 X 3/4" SMS	2 SCREWS WITHIN 4" OF SILL PLATE ENDS & MAX. 12" O.C. (SILL PLATE TO SILL JAMB AND FIRST LOUVER BLADE)
30	NO. 14 X 1 1/4" HILTI TEK SCREW	1 AT EACH MULLION ANGLE INTO HEAD & SILL JAMB
31	NO. 8 X 3/4" SMS SCREWS	2 PER FRAME SILL CORNER THROUGH SILL & INTO JAMB SPLINES
32	3/8" X 1 7/8" SLEEVE ANCHOR WITH FLAT WASHER	RED HEAD DYNABOLT WITH MIN. 1 1/2" BLOCK/CONCRETE EMBED (1 PER FRAME SUPPORT CLIP)

PRESSURE TABLE NOTES:

1. WHEN THE PANEL WIDTH IS 30" OR LESS, NO MID SPAN MULLION IS REQUIRED PROVIDING COMPLIANCE WITH THE TABLE.
2. ALL PRESSURES IN THIS TABLE ARE FOR BOTH POSITIVE & NEGATIVE WIND PRESSURE.

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 11-0923.18
Expiration Date 07/27/2013
By
Miami Dade Product Control

PRODUCT RENEWED
as complying with the Florida Building Code
Acceptance No 13-0422.13
Expiration Date 07/27/2016
By
Miami Dade Product Control

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 11-1117.18
Expiration Date 07/27/2013
By
Miami Dade Product Control

WARREN W. SCHAEFER * LICENSE * No. 44135 * STATE OF FLORIDA * PROFESSIONAL ENGINEER *

DRAWN BY: K.P.S. | CHECKED BY: W.W.S.
PLOT: 1=1 | DATE: 10/14/03

NO.	REVISION DESCRIPTION	BY	DATE

DRAWING TITLE: MODEL A320 6" LOUVER SYSTEM
MANUFACTURER: AIR BALANCE INC.
450 RIVERSIDE DRIVE
WYALUSING, PA 18853
570-746-1888

CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)
7480 150TH COURT NORTH
PALM BEACH GARDENS, FL 33418
PHONE: 561-744-3424

CERTIFICATION
NOV 08 2011
WARREN W. SCHAEFER P.E.
P.E. NO. 44135

DRAWING NO. 1258 | REV. B
SHEET NO. 7 OF 7