

BRAND	MODEL
CLOPAY	904, 904U, AX, AXU
IDEAL	C4AL, C4ALU

SHEET:

1 OF 3

REVISIONS						DESCRIPTION
REV. NO.	ZONE:	DATE:	ECN NO.	APPVD:		
00	-	9/22/20	-	SH		INITIAL RELEASE.

MODEL 904:
 TOP RAIL PER 105008 MIN THK 0.075"
 DOUBLE END STILE PER 105010 MIN THK 0.075"
 STD BTM RAIL PER 105008 MIN THK 0.075"
 CENTER STILE PER 105011 MIN THK 0.062"
 INTER. TOP RAIL PER 105012 (WITH FIN) MIN THK 0.062"
 INTER. BOTTOM RAIL PER 105014 MIN THK 0.075"

MODEL 904 MADE FROM 6063-T5 ALUMINUM.

SEE PAGE 2 FOR
 DIFFERENT JAMB
 CONFIGURATIONS.

SECTION 3-3

END STILES FASTENED TO RAILS
 WITH FULL LENGTH 5/16" STEEL
 RODS AND FLANGE NUTS.

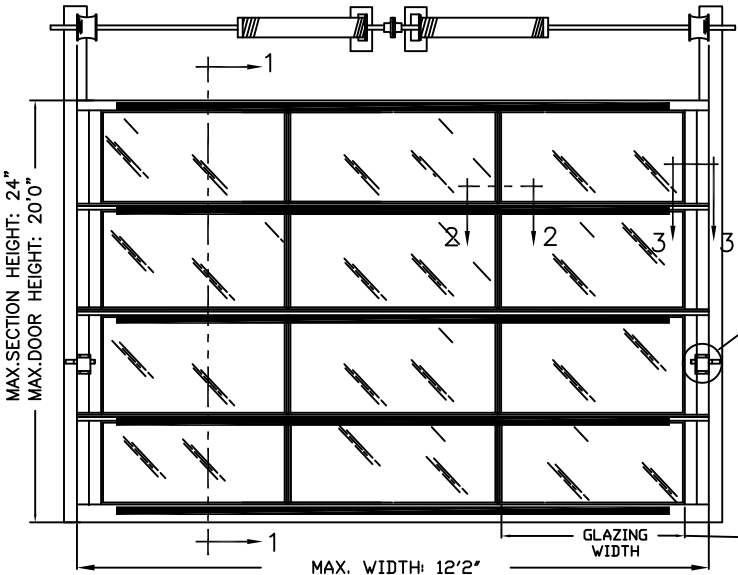
REINFORCING FIN
 ON INTER. TOP
 RAILS ANGLE CUT
 AT END STILES.

7/16" PUSH-NUT,
 ONE PER ROLLER.

1" OVERLAP
 BOTH SIDES.

12 GA. GALV. STEEL TRACK
 BRACKET FASTENED TO WOOD JAMB
 WITH ONE 5/16"x1-5/8" WOOD LAG
 SCREW PER BRACKET.

1/4"x3/4" SELF
 TAPPING SCREWS.
 (4) SCREWS PER
 HINGE.
 1/4"x3/4" SELF
 TAPPING SCREWS.
 (2) SCREWS PER
 HINGE.
 14 GA. END HINGES



SECTION 2 - 2

CENTER STILES FASTENED TO RAILS
 WITH FULL LENGTH 5/16" STEEL
 RODS AND FLANGE NUTS.

14 GAUGE CENTER HINGES
 ATTACHED TO INTERM. BOTTOM RAIL
 WITH (2) #14x5/8" SMS AND TO
 FIN WITH (2) 1/4-20x1" HEX
 HEAD MACHINE SCREWS AND NUTS.

SECTION 1 - 1

3" x 2" x 1/4" ALUMINUM
 ANGLE ON TOP SECTION AND
 BOTTOM OF BOTTOM SECTION
 ATTACHED WITH (1) 1/4"x1"
 SELF-TAPPING SCREW PER
 STILE LOCATION.

ADJUSTABLE TOP ROLLER BRACKET
 OF 12 GA. GALV. STEEL
 FASTENED WITH (4) #14 x 5/8"
 SHT MTL SCREWS.

SEALBOND 105 STRUCTURAL SEALANT
 AROUND PERIMETER OF GLAZING.

CARDINAL SEASTORM 9.4 WITH 0.90"
 KURAUAY TROSIFOL PVB INTERLAYER.
 3/4x3/4x1/8 ALUMINUM RETAINER
 ATTACHED WITH #8x1" TEK SCREWS
 NTE 10" OC SPACING.

LONG-STEM NYLON 10B
 ROLLERS.

14 GA. ROLLER HINGES ATTACHED
 WITH (6) 1/4"x3/4" STS.
 2" x 3" x 1/4" ALUMINUM
 ANGLE, (1) ATTACHED TO
 EACH REINFORCING RIB WITH
 (2) 1/4" HEX BOLTS AND
 FLANGE NUTS AT EACH HINGE
 LOCATION AND (2) 3/8"
 BOLTS AND NUTS, (1) AT
 EACH END.

BOTTOM ROLLER BRACKET
 OF 12 GA. GALV. STEEL,
 FASTENED WITH (4) #14 x
 5/8" SHEET METAL
 SCREWS.

2" x 3" x 0.25"
 ALUMINUM ANGLE,
 6061-T6.

BOTTOM SECTION REINFORCED
 WITH A TEMPERED ALUMINUM
 EXTRUSION WITH INTEGRAL
 RETAINER FOR FLEXIBLE
 VINYL ASTRAGAL.

FLEXIBLE VINYL ASTRAGAL.

SECTIONS PER DOOR HEIGHT	
UP TO 6'0"	3
FROM 6'1" TO 8'0"	4
FROM 8'1" TO 10'0"	5
FROM 10'1" TO 12'0"	6
FROM 12'1" TO 14'0"	7
FROM 14'1" TO 16'0"	8
FROM 16'1" TO 18'0"	9
FROM 18'1" TO 20'0"	10

DOORS 9'3" TO 12'2" SHALL HAVE
 AT LEAST (3) PANELS PER SECTION.

DESIGN LOADS: +52.0 P.S.F. & -58.0 P.S.F.
 TEST LOADS: +78.0 P.S.F. & -87.0 P.S.F.

PART NO.: -

CLOPAY WINDLOAD RATING
 W8

Clopay
 CORPORATION

8585 Duke Boulevard
 Mason, OH 45040 USA
 Tel. No. 513-770-4800
 Fax No. 513-770-4853

DESCRIPTION: M/N 904 12'2" WIDE DES +52/-58 PSF

DRAWN BY: SH DATE: 9/22/20 SCALE: NTS DWG. B

CHECKED BY: SH DATE: 9/22/20 SHEET 1 OF 3 SIZE

DWG. NO.: 105608

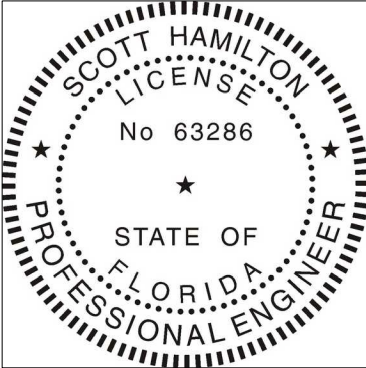
VERSION: IBC/IRC

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Unless Stated Otherwise
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 .0 = ±.031
 .00 = ±.015
 .000 = ±.005
 .0000 = ±.001
 Degrees = ±1/2"

Third Angle
 Projection

Unless Stated Otherwise
 DIMENSIONS ARE IN INCHES.



DESIGN ENGINEER:
 SCOTT HAMILTON, P.E.
 FLORIDA P.E. #463286

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MANUFACTURING PRODUCT CODE

C-AL2-1F499

Scott Hamilton

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4

3

2

1

BRAND	MODEL
CLOPAY	904, 904U, AX, AXU
IDEAL	C4AL, C4ALU

SHEET:
2 OF 3

REVISIONS					
REV. NO.	ZONE:	DATE:	ECN NO.	APPVD:	DESCRIPTION
00	-	-	-	-	SEE REVISION HISTORY ON SHEET ONE.

HORIZONTAL (TOP) JAMB
(NO LOAD FROM DOOR)

FASTENER
TYPE

2x6 VERTICAL JAMB

MAX. O.C.

JAMB TO SUPPORTING STRUCTURE ATTACHMENT

NOTES:
1. ALL THE LOAD FROM THE DOOR IS TRANSFERRED TO THE TRACK AND THEN FROM THE TRACK TO THE 2x6 VERTICAL SYP (GRADE #2 OR BETTER) JAMBS. NO LOAD FROM THE DOOR IS TRANSFERRED TO THE HORIZONTAL (TOP) JAMB.
2. EACH VERTICAL JAMB SEES A MAXIMUM DESIGN LOAD OF +312 LB. PER LINEAR FOOT OF JAMB.
3. ALL JAMB FASTENERS MAY BE (BUT ARE NOT REQUIRED TO BE) COUNTERSUNK TO PROVIDE A FLUSH MOUNTING SURFACE.
4. A 1/3 STRESS INCREASE FOR WIND LOAD WAS NOT USED IN THE CALCULATION OF ALLOWABLE LOADS FOR ANCHORS AND FASTENERS FOR STEEL, CONCRETE AND MASONRY.

PREPARATION OF JAMBS BY OTHERS

NOTE: THE DESIGN OF THE SUPPORTING STRUCTURAL ELEMENTS SHALL BE THE RESPONSIBILITY OF THE PROFESSIONAL OF RECORD FOR THE BUILDING OR STRUCTURE AND IN ACCORDANCE WITH CURRENT BUILDING CODES FOR THE LOADS LISTED ON THIS DRAWING.

2x6 JAMB TO SUPPORTING STRUCTURE ATTACHMENT

(NOT TO BE USED FOR ATTACHMENT OF TRACK ANGLE TO 2x6 VERTICAL JAMBS OR SUPPORTING STRUCTURE)

BUILDING TYPE	FASTENER TYPE	MAXIMUM ON-CENTER DISTANCE BETWEEN FASTENERS*	STEEL WASHERS REQUIRED?
BLOCK WALL	1/4" x 1-1/4" EMBED ULTRACON CONCRETE ANCHOR	5-1/4"	NO
GROUT-FILLED BLOCK WALL	1/4" x 1-3/4" EMBED ULTRACON CONCRETE ANCHOR	8-3/4"	NO
2,846 PSI MIN. CONCRETE	1/4" x 1-3/4" EMBED ULTRACON CONCRETE ANCHOR	18-1/4"	NO
2,000 PSI MIN. CONCRETE	1/4" x 1-3/4" EMBED ULTRACON CONCRETE ANCHOR	17"	NO
2,500 PSI MIN. CONCRETE	3/8" x 1-3/4" EMBED ITW TRUBOLT WEDGE CONCRETE ANCHOR WITH SYP 0.55 SG	16-1/2"	1" O.D.
WOOD FRAME (SYP 0.55 SG)	1/2" x 1-1/2" EMBED LAG SCREW WITH 1-3/8" O.D. WASHER	20"	YES
14 GA MIN. STEEL JAMB	1/4" -14 ITW BUILDEX TEKS SELF-DRILLING FASTENER	9"	NO
12 GA MIN. STEEL JAMB	1/4" -14 ITW BUILDEX TEKS SELF-DRILLING FASTENER	12-3/4"	NO
1/8" MIN. STEEL JAMB	1/4" -14 ITW BUILDEX TEKS SELF-DRILLING FASTENER	15-1/4"	NO

NOTE: FOR DOORS WITH CONTINUOUS OR REVERSE ANGLE TRACK, THESE VALUES CAN BE USED TO DIRECTLY ATTACH THE TRACK TO THE WALL.

* FIRST (BOTTOM) ANCHOR STARTING AT NO MORE THAN HALF OF THE MAXIMUM ON-CENTER DISTANCE. HIGHEST ANCHOR INSTALLED AT LEAST AS HIGH AS THE DOOR OPENING.
CLOPAY DOES NOT SUPPLY JAMB ATTACHMENT FASTENERS.
MINIMUM DISTANCE BETWEEN CENTER OF ANCHOR AND EDGE OF CONCRETE BLOCK: 2-1/2", EXCLUDING STUCCO THICKNESS.

SEE DIGITAL SIGNATURE
DETAILS ON SHEET ONE.

SCOTT HAMILTON
LICENSE
No 63286
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

DESIGN ENGINEER:
SCOTT HAMILTON, P.E.
FLORIDA P.E. #463286

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Third Angle Projection

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Clopay CORPORATION

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MANUFACTURING PRODUCT CODE
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DRAWN BY: SH

DATE: 9/22/20

SCALE: NTS

DWG. B

CHECKED BY: SH

DATE: 9/22/20

SHEET 2 OF 3

SIZE

DWG. NO.: 105608

VERSION: IBC/IRC

FLORIDA PRODUCT APPROVAL 34540

BRAND	MODEL
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IDEAL	C4AL, C4ALU

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3 OF 3		REV. NO.	ZONE:	DATE:	ECN NO.	APPVD:
		00	-	-	-	-
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		SEE REVISION HISTORY ON SHEET ONE.				

D

C

B

A

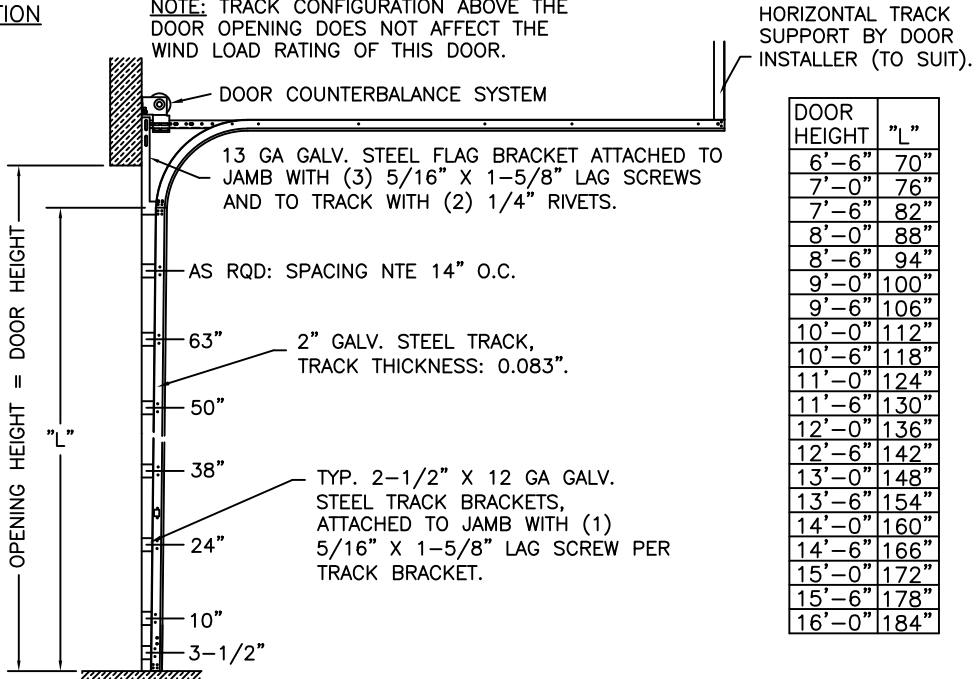
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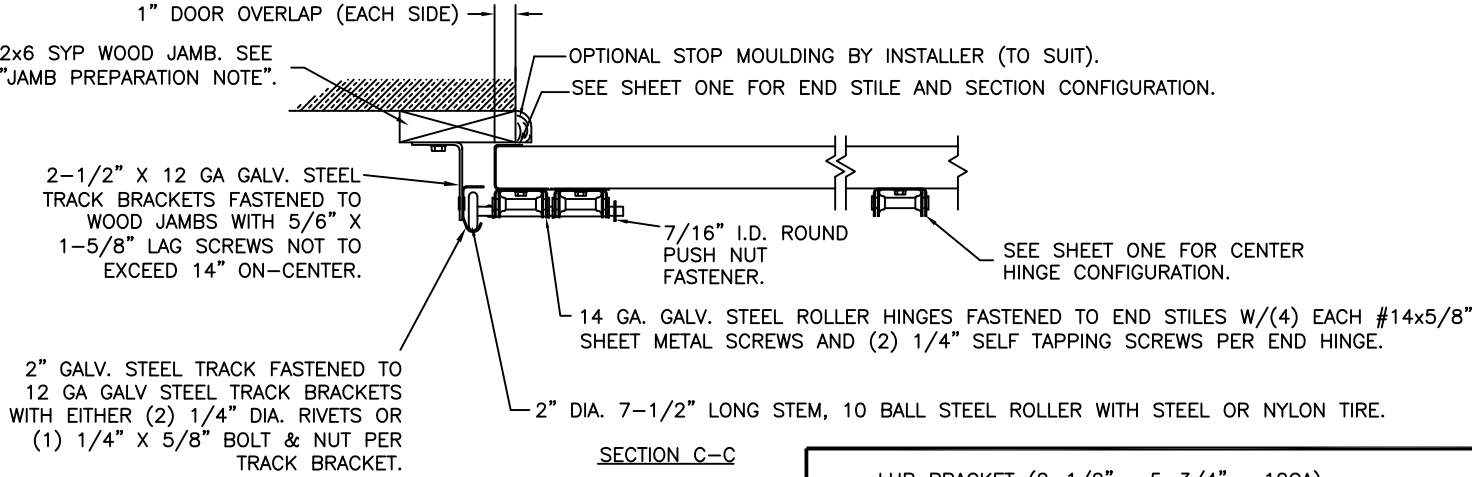
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2" TRACK CONFIGURATION



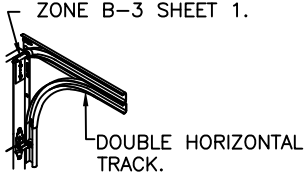
JAMB CONFIGURATION DOORS WITH 2" TRACK.



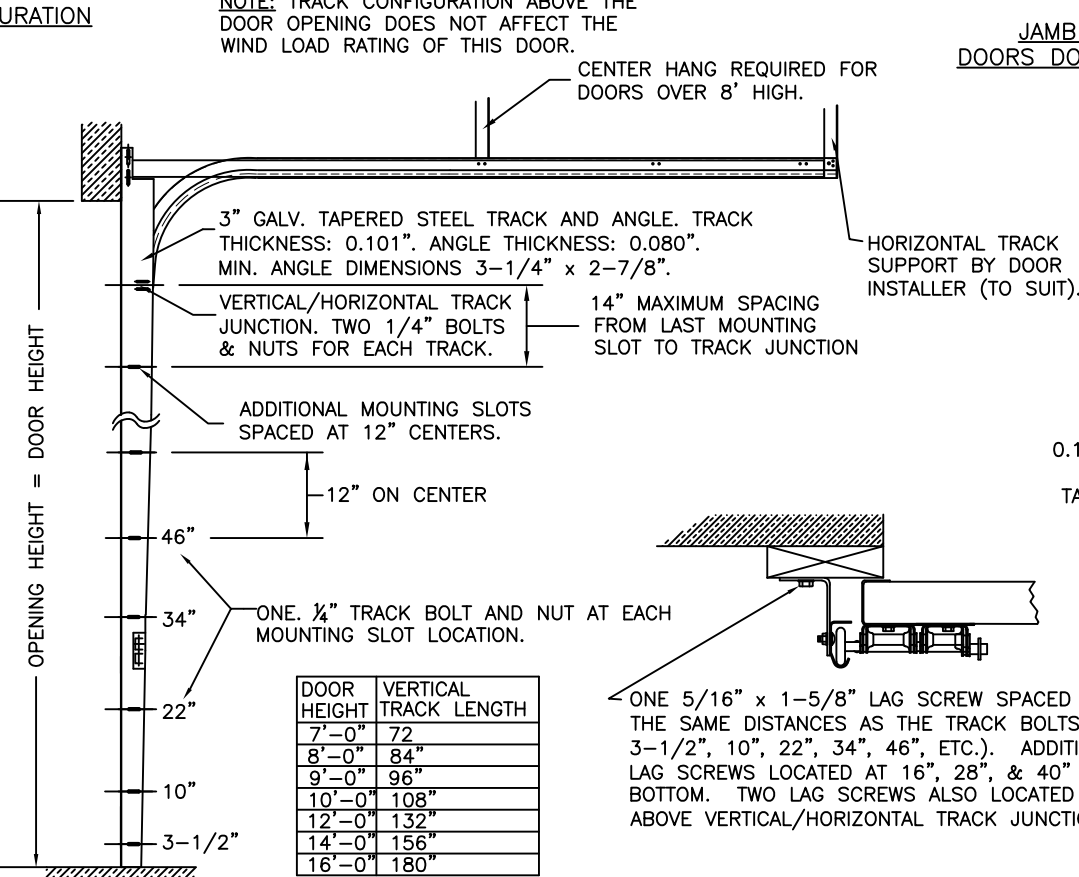
PREPARATION OF JAMBS BY OTHERS.

LHR BRACKET (2-1/2" x 5-3/4" x 12GA) ATTACHED WITH (2) 1/4" x 3/4" SELF TAPPING SCREWS. NOTE THAT LHR BRACKETS ARE ALSO USED WITH "DOUBLE END STILE" AS SHOWN IN ZONE B-3 SHEET 1.

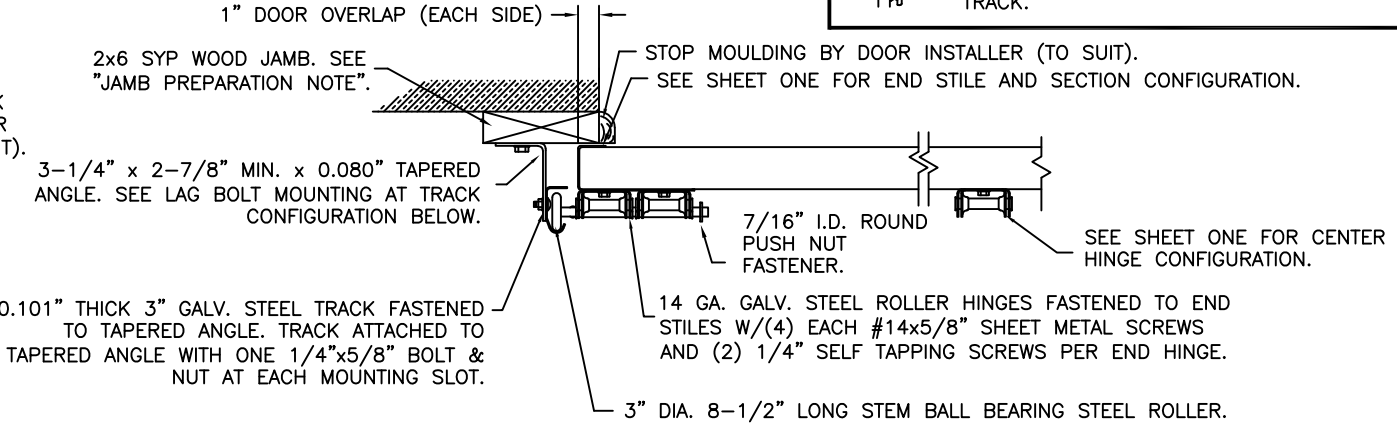
DOUBLE TRACK LOW HEADROOM OPTION (AVAIL. FOR BOTH 2" AND 3" TRACK)



3" TRACK CONFIGURATION



JAMB CONFIGURATION DOORS WITH 3" TRACK.



PREPARATION OF JAMBS BY OTHERS.

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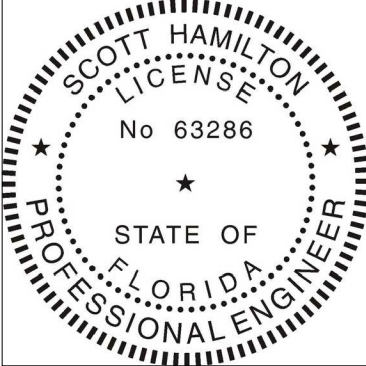
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