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APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	TOT CLAIMS	IND CLAIMS
61/718,372	10/25/2012		125	5408.2546		

CONFIRMATION NO. 6491

31230

TED M. ANTHONY

BABINEAUX, POCHE, ANTHONY & SLAVICH, L.L.C

P.O. DRAWER 52169

LAFAYETTE, LA 70505-2169

FILING RECEIPT



OC000000057589013

Date Mailed: 11/14/2012

Receipt is acknowledged of this provisional patent application. It will not be examined for patentability and will become abandoned not later than twelve months after its filing date. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. **If an error is noted on this Filing Receipt, please submit a written request for a Filing Receipt Correction. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections**

Inventor(s)

Harry Paul Benoit, Lafayette, LA;

David E. Walker, Lafayette, LA;

Applicant(s)

Harry Paul Benoit, Lafayette, LA;

David E. Walker, Lafayette, LA;

Power of Attorney:

Ted Anthony--38816

If Required, Foreign Filing License Granted: 11/13/2012

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 61/718,372**

Projected Publication Date: None, application is not eligible for pre-grant publication

Non-Publication Request: No

Early Publication Request: No

**** SMALL ENTITY ****

Title

Welding Enclosure

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international

application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process **simplifies** the filing of patent applications on the same invention in member countries, but **does not result** in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

Almost every country has its own patent law, and a person desiring a patent in a particular country must make an application for patent in that country in accordance with its particular laws. Since the laws of many countries differ in various respects from the patent law of the United States, applicants are advised to seek guidance from specific foreign countries to ensure that patent rights are not lost prematurely.

Applicants also are advised that in the case of inventions made in the United States, the Director of the USPTO must issue a license before applicants can apply for a patent in a foreign country. The filing of a U.S. patent application serves as a request for a foreign filing license. The application's filing receipt contains further information and guidance as to the status of applicant's license for foreign filing.

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For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, <http://www.stopfakes.gov>. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4158).

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Title 35, United States Code, Section 184

Title 37, Code of Federal Regulations, 5.11 & 5.15

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SCORE Placeholder Sheet for IFW Content

Application Number: 61718372

Document Date: 10/25/2012

The presence of this form in the IFW record indicates that the following document type was received in electronic format on the date identified above. This content is stored in the SCORE database.

- Drawing

Since this was an electronic submission, there is no physical artifact folder, no artifact folder is recorded in PALM, and no paper documents or physical media exist. The TIFF images in the IFW record were created from the original documents that are stored in SCORE.

To access the documents in the SCORE database, refer to instructions developed by SIRA.

At the time of document entry (noted above):

- Examiners may access SCORE content via the eDAN interface.
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- External customers may access SCORE content via the Public and Private PAIR interfaces.

Form Revision Date: February 8, 2006

United States Provisional Patent Application

Title: Welding Enclosure

Inventor: Harry Paul Benoit
Lafayette, Louisiana

David E Walker
Lafayette, Louisiana

Assignee: Safe Arc Technologies, LLC
6873 Johnston Street
Lafayette, LA 70503

BACKGROUND OF THE INVENTION

[0001] The present invention comprises a pressurized enclosure system for use during welding and/or other hot work, particularly in environments where there is a risk of fire or explosion. The enclosure system of the present invention, known as a personal welding enclosure ("PWE"), can be used in any number of different applications or environments. By way of illustration, but not limitation, it is to be observed that the enclosure system of the present invention can be used on offshore oil and gas platforms or drilling rigs, and in refineries and industrial plants.

[0002] In the preferred embodiment, the PWE of the present invention comprises a rigid frame; although the precise configuration of said rigid frame can vary, it is to be observed that said frame can comprise a plurality of connectable tubular members. Said rigid frame can be constructed in many different configurations, and can be customized to conform to space limitations or other characteristics of particular work environments. A tent-like enclosure is supported from said rigid metal frame to form said PWE. Said tent-like enclosure is beneficially formed from impermeable, flame-proof or flame-resistant fabric having desired strength, durability and thermal insulation characteristics. By way of illustration, but not limitation, said tent-like enclosure can be constructed from double plain weave silica fabric, such as AVSil Double Plain Weave Silica marketed by AVS Industries, LLC.

[0003] The present invention monitors a work environment within a PWE using an automatic shut off control system (ASO). In the event that an unsafe condition is

detected, the ASO automatically terminates hot-work within the PWE and alerts personnel to the existence of potentially unsafe conditions within the PWE. Such unsafe conditions can include, without limitation, the following: loss of positive pressure within the PWE; detection of gas concentrations within the PWE falling outside of certain predetermined ranges; detection of explosive gases at or near the intake of the PWE; activation of the ESD system; and/or loss of power to the ASO.

[0004] Upon detecting unsafe condition or other predetermined measured value, the ASO automatically terminates hot-work by opening a control valve, thereby releasing static air pressure and actuating pneumatic valves that control the operation of hot-work equipment. Additionally, at least one alarm system within the PWE provides a visual and audible alarm to personnel situated inside the PWE.

[0005] In the preferred embodiment, the present invention monitors for unsafe conditions using at least one gas monitor unit situated inside the PWE to sense oxygen levels and detect the presence of explosive gases within the PWE. A second gas monitor is situated at the intake air duct of the PWE to detect explosive gases before such gas(es) can enter the PWE. A differential pressure switch can detect loss of positive pressure inside the PWE. Importantly, the present invention can shut down the blowers supplying positive air pressure to the PWE, but only when the gas monitor located at the intake air duct detects the presence of explosive gases, or when an ESD is activated.

[0006] The ASO of the present invention beneficially comprises a “fail-safe” system. Unless positive pneumatic pressure is maintained within the system, all control valves will open triggering an automatic shut down event. All components of the present

invention must be connected and functioning without the detection of any potentially unsafe condition in order for such control valves to remain in the closed position, thereby preventing automatic shut down of operations by the present invention ASO.

[0007] Importantly, the present invention also includes a pressure differential switch that senses the pressure differential between the inside of the PWE and the environment outside of the PWE. The sensor, which is connected to a switch mechanism, is located physically outside of the PWE. The sensor/switch employs a thin diaphragm that is made to resist a certain predetermined pressure differential; in most cases, the diaphragm is set to deflect at a pressure differential greater than or equal to a predetermined value (such as, for example, 0.1 inches of water).

[0008] The sensor/switch has high and low pressure ports, with a conduit connected to each port. The open end of the conduit connected to the low pressure port is exposed to the environment outside of the PWE, while the open end of the conduit connected to the high pressure port is exposed to the environment inside the PWE. In the event that the pressure inside the PWE is a predetermined amount greater than the pressure outside of the PWE, the diaphragm will deflect so that the switch mechanism is in the “open” position. In this position, the electricity generated from the controller is allowed to return to the controller, thereby completing the circuit and confirming that the pressure inside the enclosure is sufficient for hot work to be conducted safely. In the event that the pressure inside of the PWE is less than a predetermined value greater than the pressure outside of said enclosure, the switch mechanism will shift to the “closed” position, breaking the circuit and triggering an automatic cessation of hot work

operations. Many operational parameters of the present invention, generally, and the ASO, in particular, can be adjusted to fit specific circumstances and job requirements.

[0009] The above-described invention has a number of particular features that should preferably be employed in combination, although each is useful separately without departure from the scope of the invention. While the preferred embodiment of the present invention is shown and described herein, it will be understood that the invention may be embodied otherwise than herein specifically illustrated or described, and that certain changes in form and arrangement of parts and the specific manner of practicing the invention may be made within the underlying idea or principles of the invention.

BRIEF DESCRIPTION OF DRAWINGS/FIGURES

[0010] The foregoing summary, as well as any detailed description of the preferred embodiments, is better understood when read in conjunction with the drawings and figures contained herein. For the purpose of illustrating the invention, the drawings and figures show certain preferred embodiments. It is understood, however, that the invention is not limited to the specific methods and devices disclosed in such drawings or figures.

[0011] FIGS. 1 through 16 are drawings depicting various components and schematics of the present invention.

[0012] FIGS. 17 through 21 are photographs depicting the present invention in use.

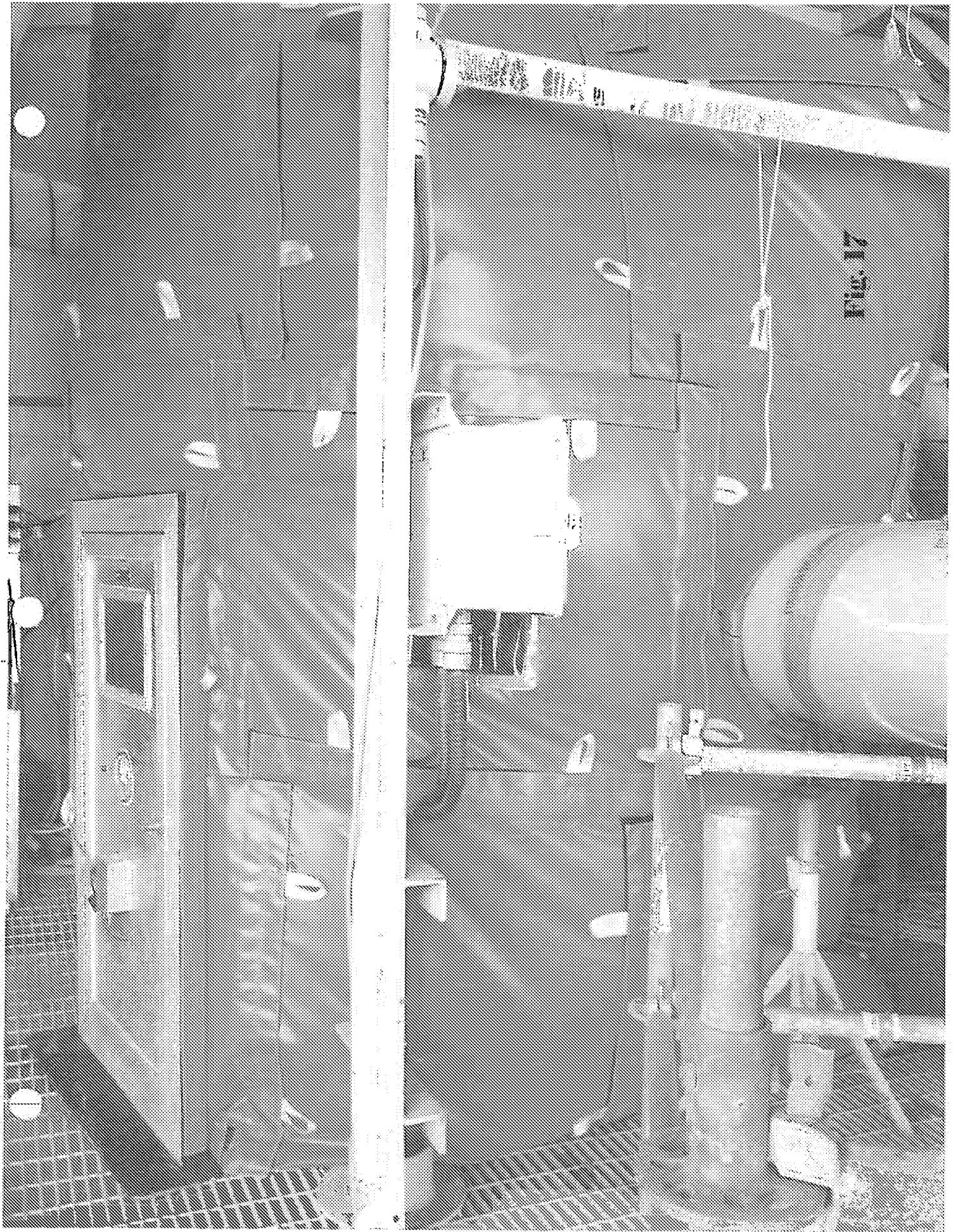


Fig. 17

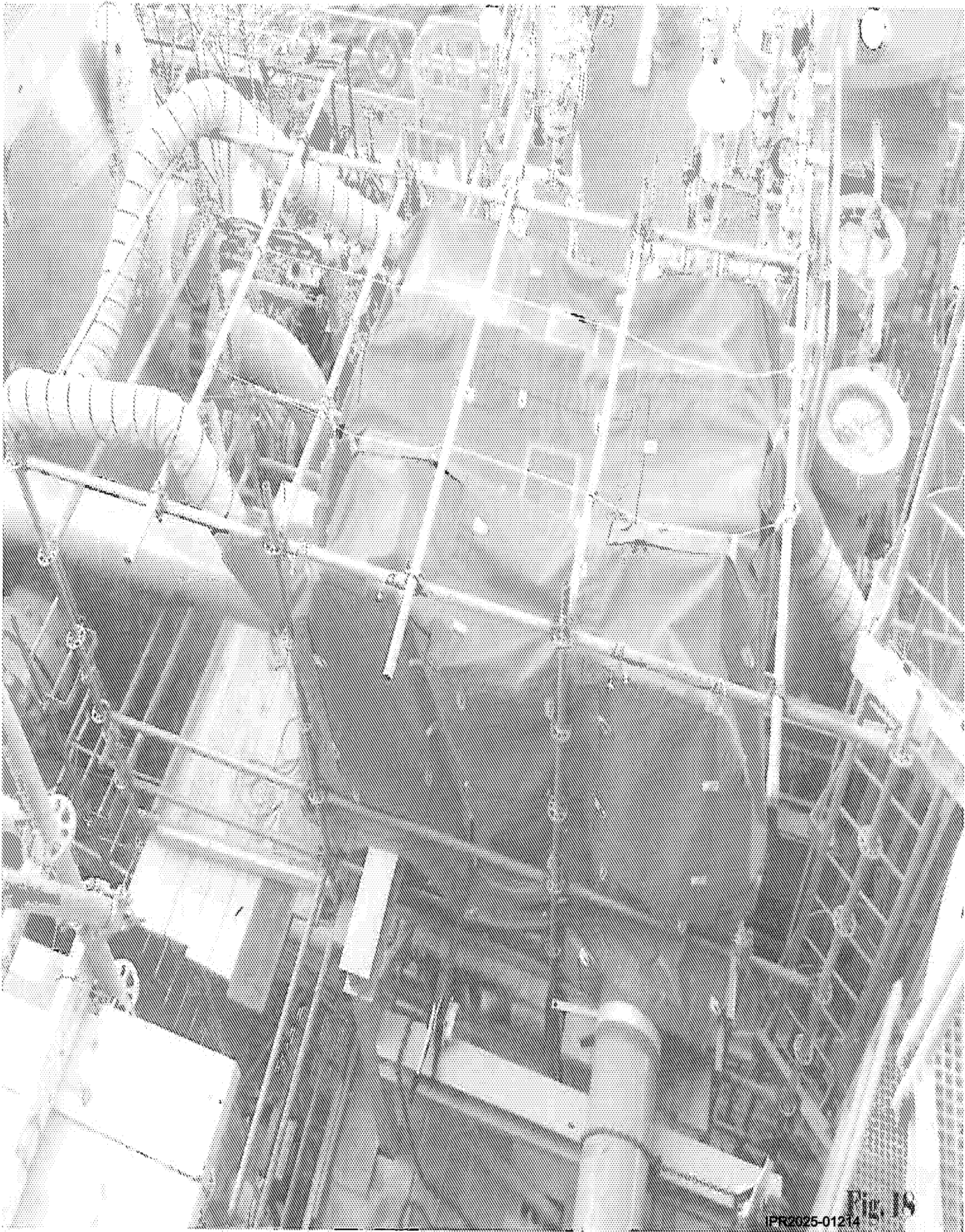


Fig. 18





Fig. 20



Fig. 21

IPR2025-01214

Exhibit 2023

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Provisional Application for Patent Cover Sheet

This is a request for filing a PROVISIONAL APPLICATION FOR PATENT under 37 CFR 1.53(c)

Inventor(s)

Inventor 1

Remove

Given Name

Middle Name

Family Name

City

State

Country

Harry

Paul

Benoit

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LA

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Inventor 2

Remove

Given Name

Middle Name

Family Name

City

State

Country

David

E.

Walker

Lafayette

LA

US

All Inventors Must Be Listed – Additional Inventor Information blocks may be generated within this form by selecting the **Add** button.

Add

Title of Invention

Welding Enclosure

Attorney Docket Number (if applicable)

5408.2546

Correspondence Address

Direct all correspondence to (select one):

☒ The address corresponding to Customer Number

☐ Firm or Individual Name

Customer Number

31230

The invention was made by an agency of the United States Government or under a contract with an agency of the United States Government.

☒ No.

☐ Yes, the name of the U.S. Government agency and the Government contract number are:

Entity Status

Applicant claims small entity status under 37 CFR 1.27

☒ Yes, applicant qualifies for small entity status under 37 CFR 1.27

☐ No

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Signature

Please see 37 CFR 1.4(d) for the form of the signature.

Signature	/Ted M. Anthony/			Date (YYYY-MM-DD)	2012-10-25
First Name	Ted M.	Last Name	Anthony	Registration Number (If appropriate)	38816

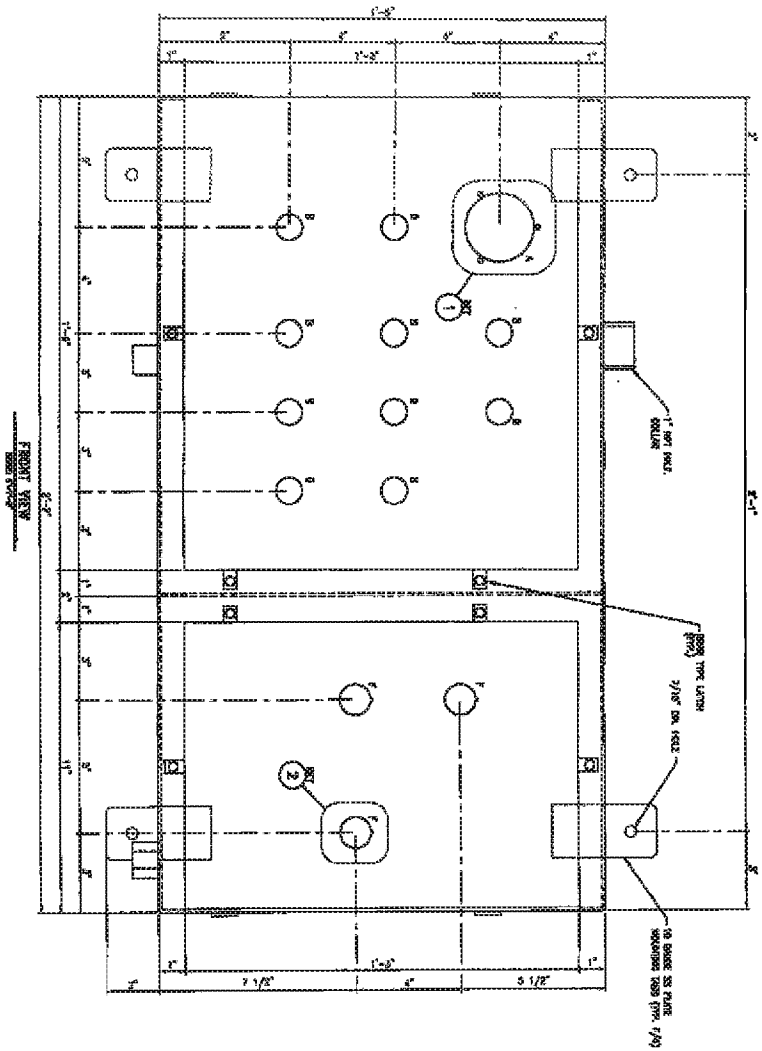
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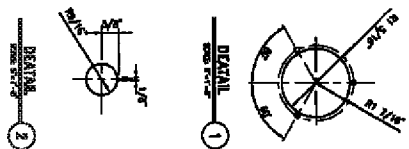
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3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
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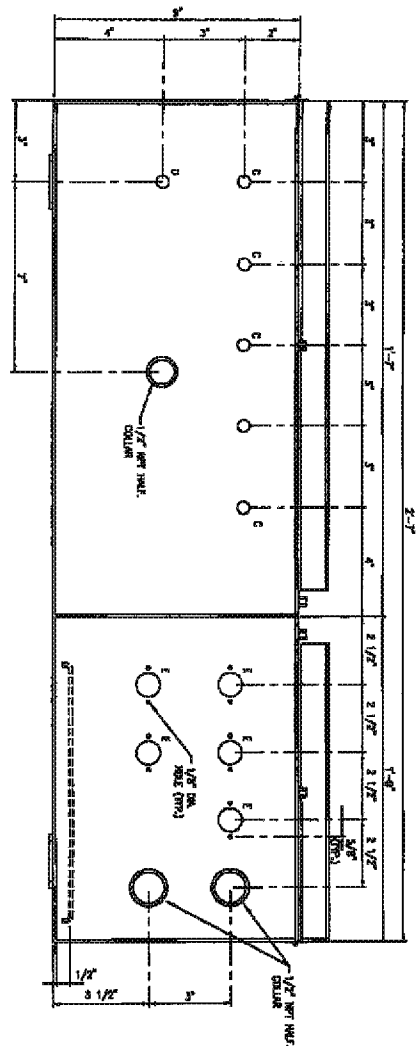


HOLE SCHEDULE	
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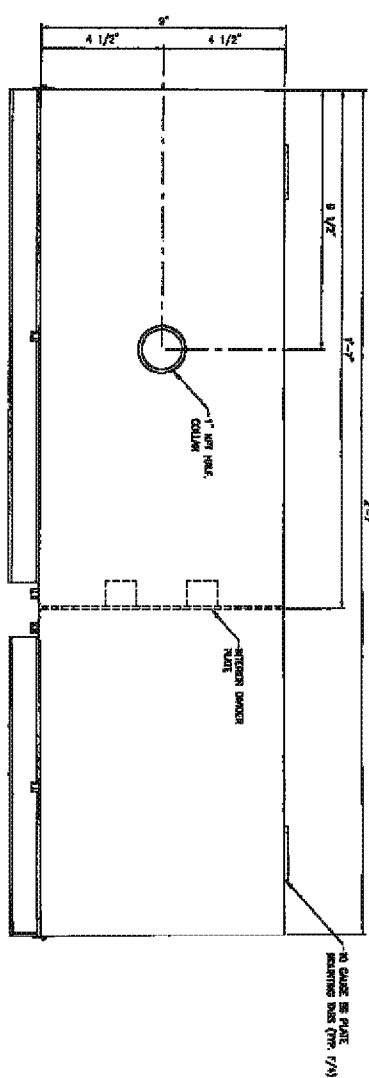


NOTES:
 1. HOLE TO BE DRILL TO 1.1 DIA. DIA. TOLERANCE .0015.
 2. HOLE TO BE DRILL TO 1.1 DIA. DIA. TOLERANCE .0015.

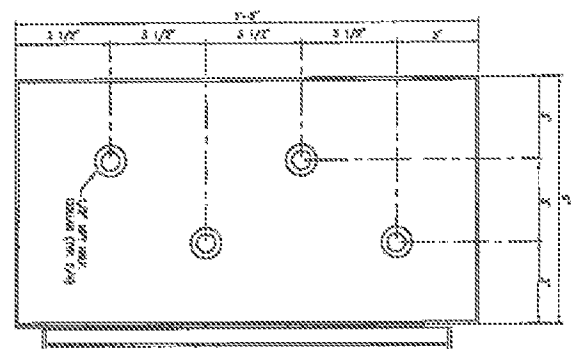
Fig. 28



BOTTOM PLATE VIEW
SEE FIG. 2



TOP VIEW
SEE FIG. 2



INTERIOR DRAWER PLATE SIDE VIEW
SEE FIG. 2

HOLE SCHEDULE	
NO.	SIZE
1	1/2" DIA. HOLE
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97	1/8" DIA. HOLE
98	1/4" DIA. HOLE
99	1/8" DIA. HOLE
100	1/4" DIA. HOLE

- NOTES:**
1. PLATE TO BE APPROX. 1/2" THICK, 316 STAINLESS STEEL.
 2. PLATE TO HAVE 1/4" RADIUS CORNERS, 316 STAINLESS STEEL.
 3. LUBRICANTS TO BE 30000 GRADE OIL.
 4. SIZE OF PLATE TO BE APPROX. 1/2" THICK, 316 STAINLESS STEEL.
 5. DRAWING SHOWS TO BE 1/2" DIA. HOLE.

Fig. 3

TAG LIST

TAG NUMBER	SIZE	QTY	TEXT COLOR	BACKGROUND COLOR	TEXT
1	1"x3"	1	WHITE	BLACK	50 PSI REGULATED PRESSURE
2	1"x3"	1	YELLOW	RED	PUSH TO CHARGE E-STOP LOOP
3	1"x3"	1	YELLOW	RED	PULL TO E-STOP
4	1"x3"	1	YELLOW	RED	PULL TO ALLOW BLOWERS
5	1"x3"	1	YELLOW	RED	INTAKE ASH
6	1"x3"	1	YELLOW	RED	PANEL E-STOP
7	1"x3"	1	YELLOW	RED	PWE E-STOP
8	1"x3"	1	RED	YELLOW	PULL TO ALLOW HOT WORK
9	1"x3"	1	RED	YELLOW	PWE ASH
10	1"x3"	1	RED	YELLOW	DP HI/LOW
11	1"x3"	1	RED	YELLOW	PUSH AND HOLD TO BYPASS DP HI/LOW
12	1"x3"	1	BLACK	WHITE	POWER ON WHEN ILLUMINATED
13	1"x3"	1	BLACK	WHITE	120V AC POWER
14	1"x3"	1	RED	WHITE	PUSH TO ACKNOWLEDGE ALARM
15	3/4"x2"	1	BLACK	WHITE	OFF
16	3/4"x2"	1	BLACK	WHITE	ON
17	2"x2"	2	WHITE	BLACK	<BLANK>
18	3/4"x2"	2	YELLOW	RED	PWE E-STOP
19	3/4"x2"	2	YELLOW	RED	S/D TO BLOWERS
20	3/4"x2"	2	RED	YELLOW	S/D TO HOT WORK
21	3/4"x2"	2	WHITE	BLACK	AIR SUPPLY
22	3/4"x2"	2	WHITE	BLACK	REGULATOR DRAIN
23	3/4"x2"	2	BLACK	WHITE	120/220VAC POWER
24	3/4"x2"	2	RED	YELLOW	DP HI/LOW
25	3/4"x2"	2	YELLOW	RED	INTAKE ASH ALARMS
26	3/4"x2"	2	YELLOW	RED	INTAKE ASH LOGIC
27	3/4"x2"	2	RED	YELLOW	PWE ASH ALARMS

TAG LIST

TAG NUMBER	SIZE	QTY	TEXT COLOR	BACKGROUND COLOR	TEXT
28	1"x2 1/2"	2	RED	YELLOW	PWE ASH LOGIC
29	1"x3"	2	YELLOW	RED	SV-1 INTAKE ASH
30	1"x3"	2	RED	YELLOW	SV-2 PWE ASH
31	1"x3"	2	RED	YELLOW	SV-3 DP HI/LOW
32	1"x3"	2	RED	YELLOW	PS-1 ALARM XFER
33	3/4"x2"	1	RED	YELLOW	SET AT 30 PSI FALLING
34	1 1/2"x4"	1	WHITE	BLACK	PWE CONTROL PANEL
35	2"x5"	1	BLACK	AQUA BLUE	SAFE ARC TECHNOLOGY 6875 Johnston St. Suite B Lafayette, LA 70503 (337)889-5275

NOTES:

1. ALL TAGS TO BE REVERSE ENGRAVED WITH SATIN FINISH.
2. TAGS WILL ALL HAVE BEVELLED EDGES.
3. TAGS WILL HAVE BACK COVERED IN 3M BLACK DOUBLE SIDED TAPE.
4. TEXT SIZE WILL BE UNIFORM AND APPROPRIATE FOR SIZE OF THE TAG.

Fig. 4

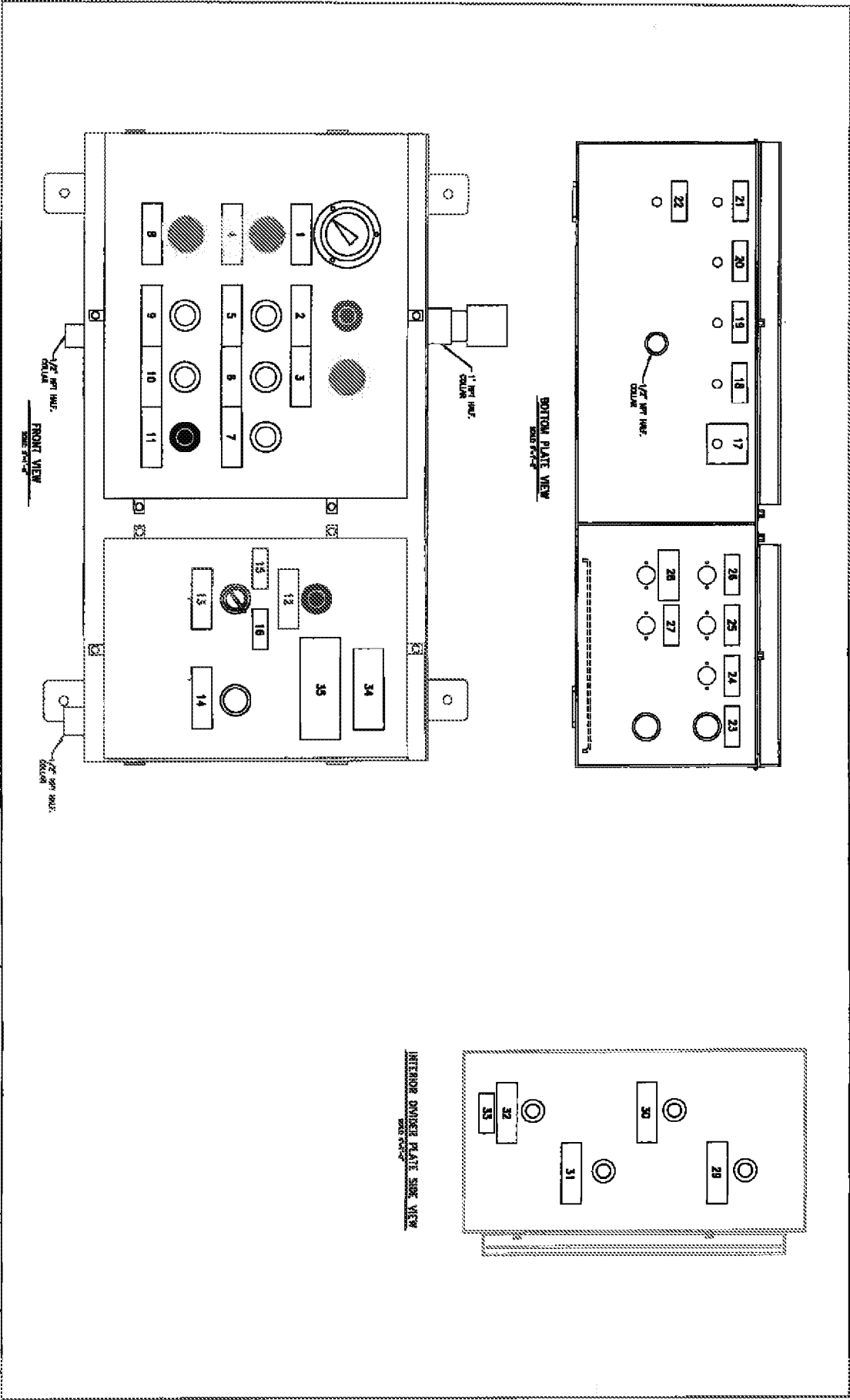
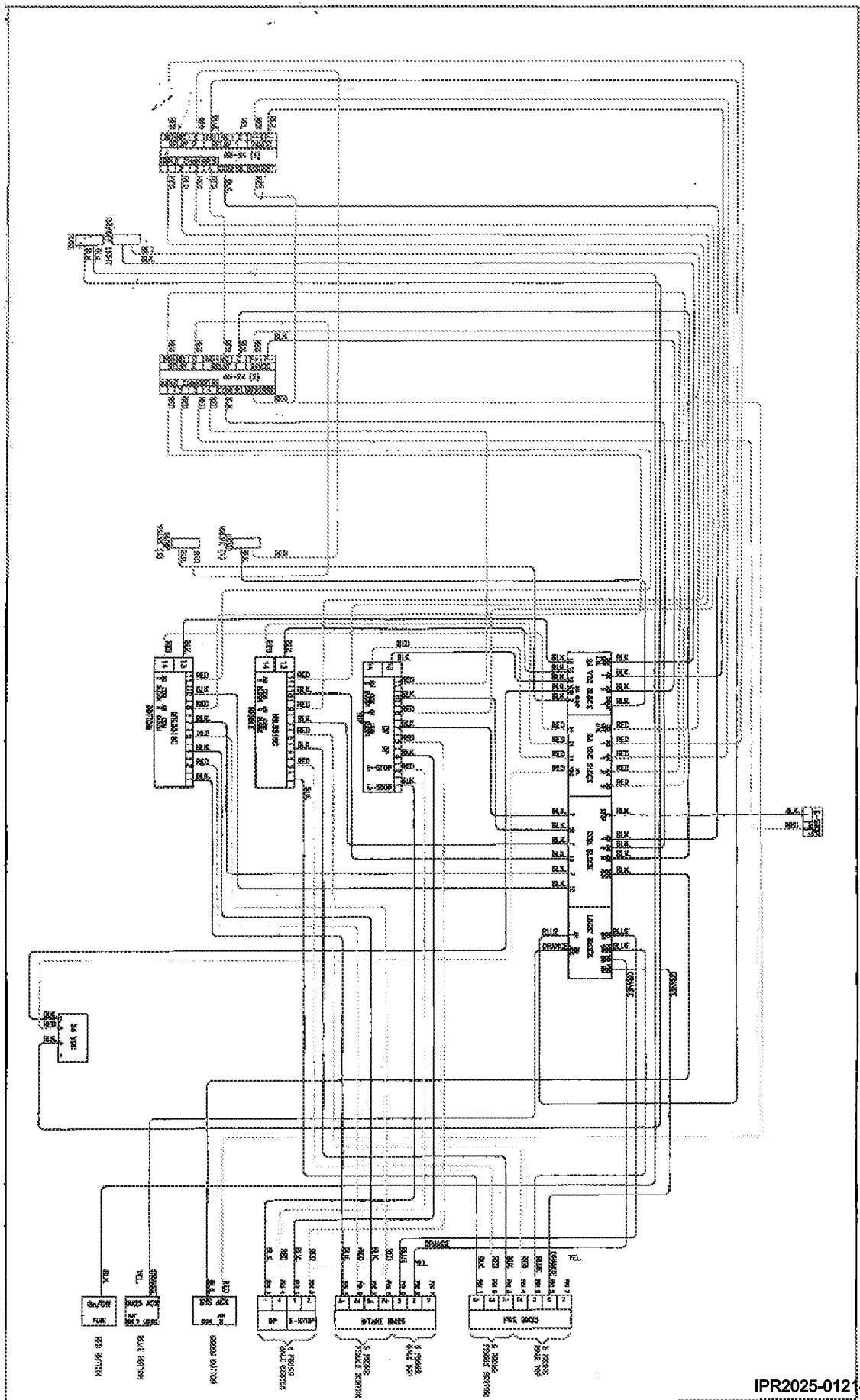


Fig. 3



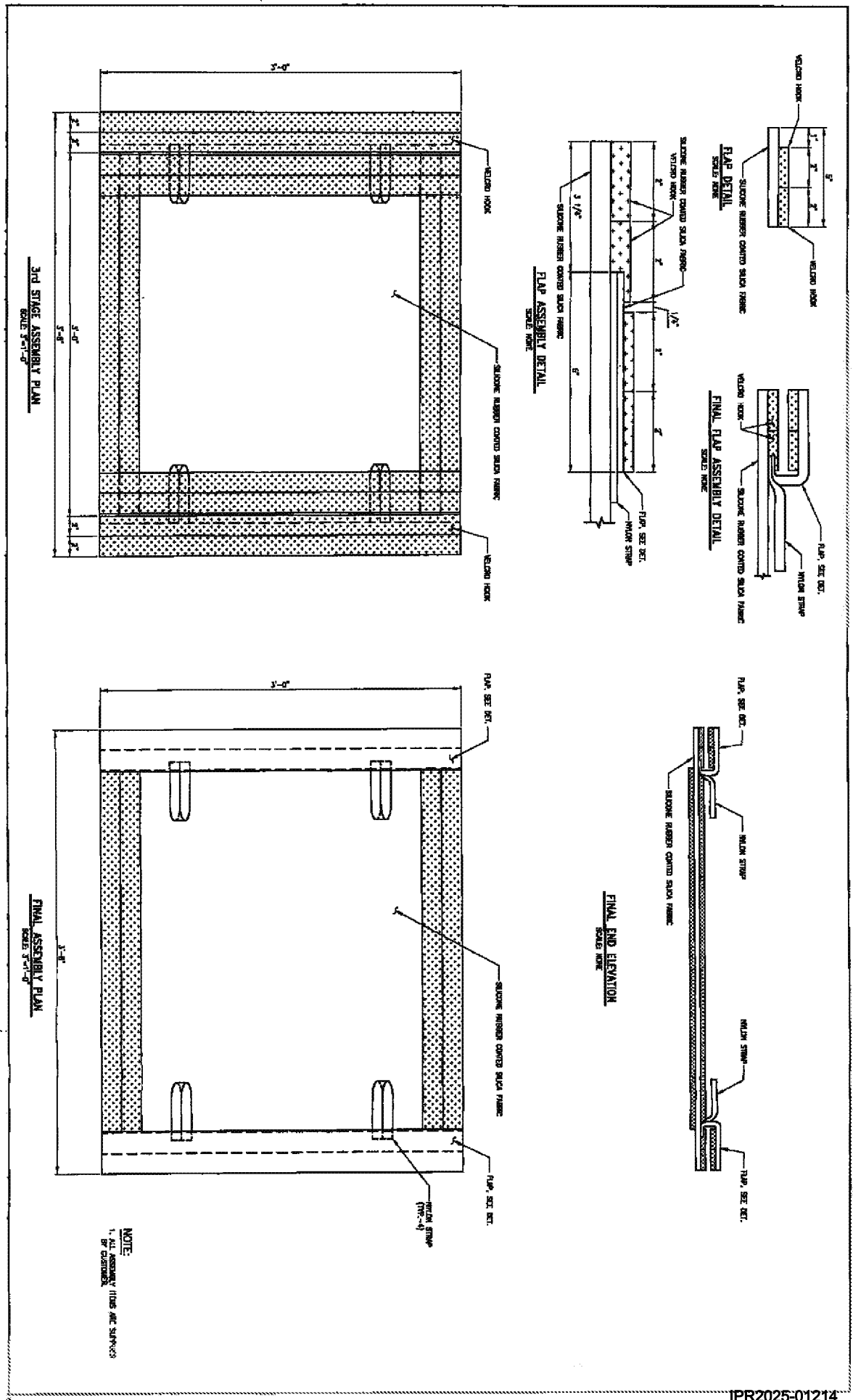


Fig. 7

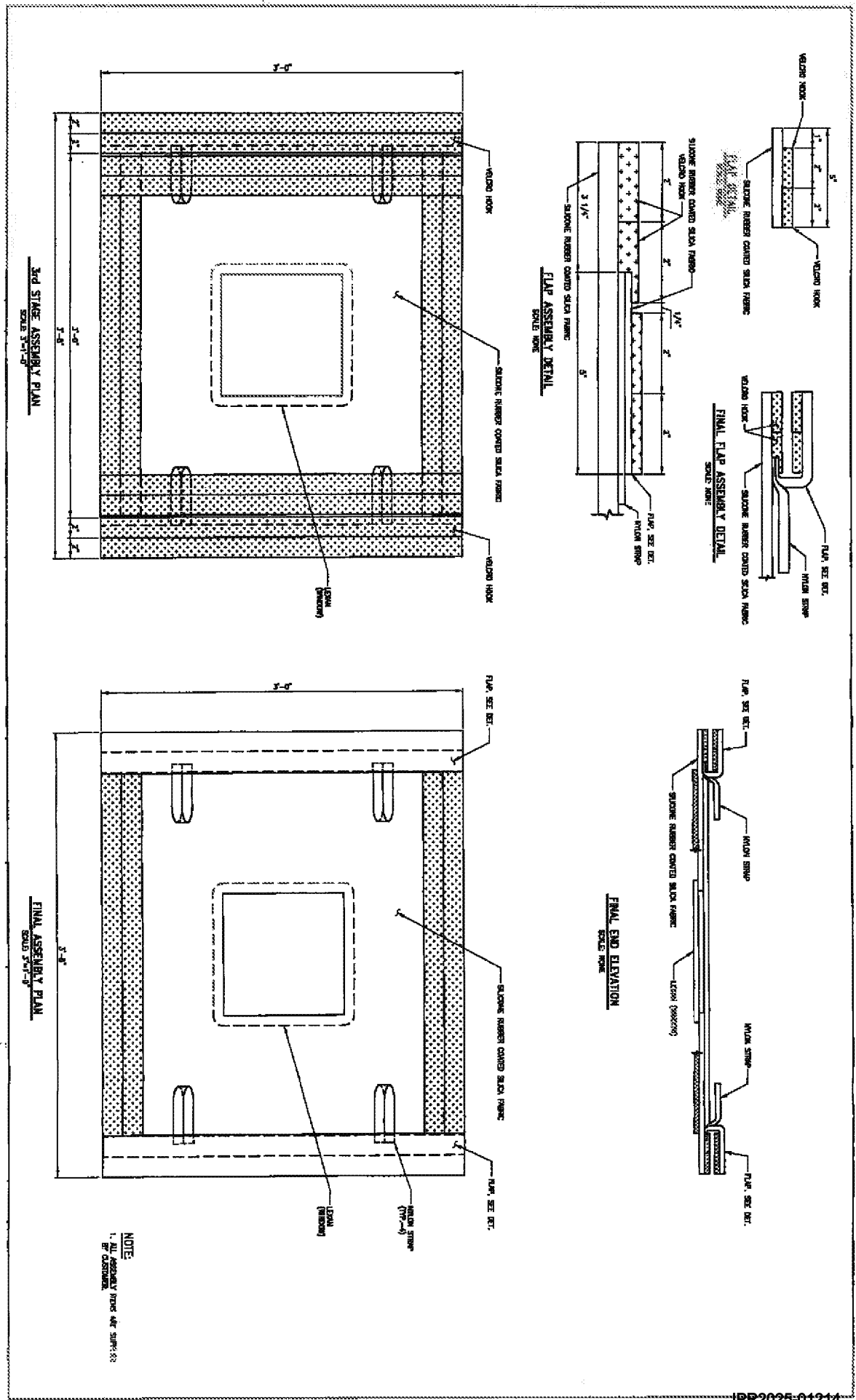


Fig. 8

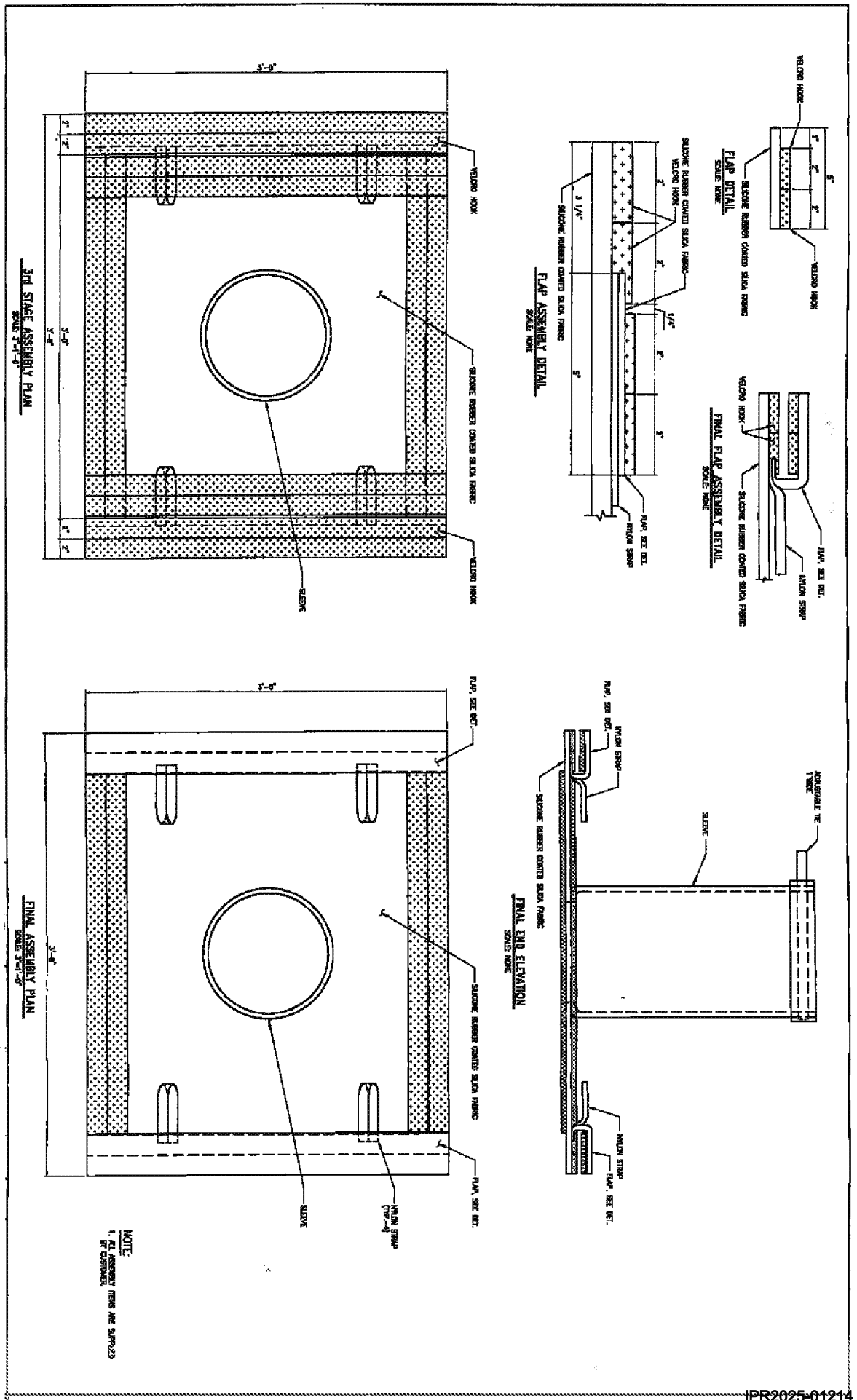


Fig. 10

NOTE
1. ALL DIMENSIONS ARE SUPPLIED BY CUSTOMER.

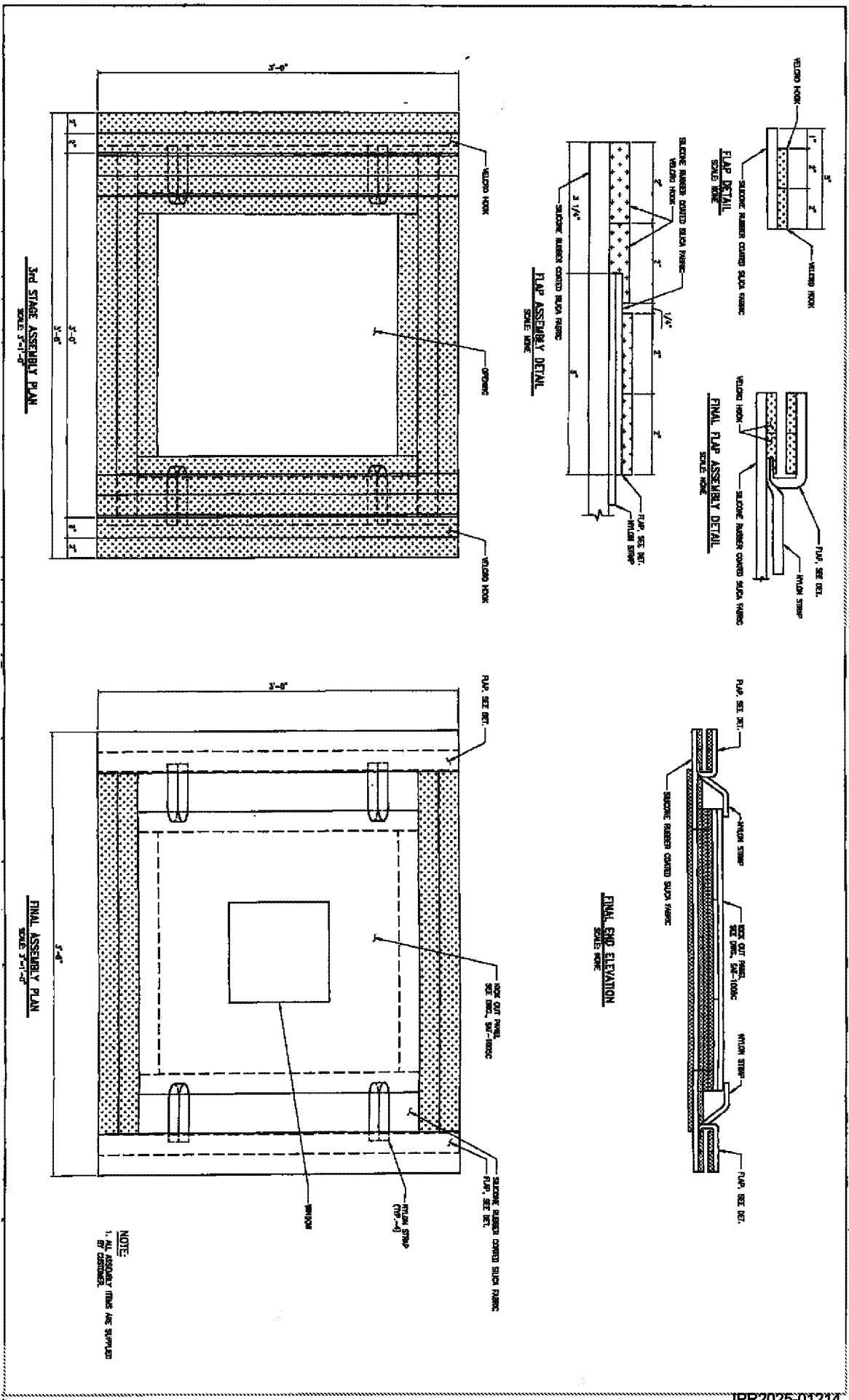


Fig. 11

Fig. 12

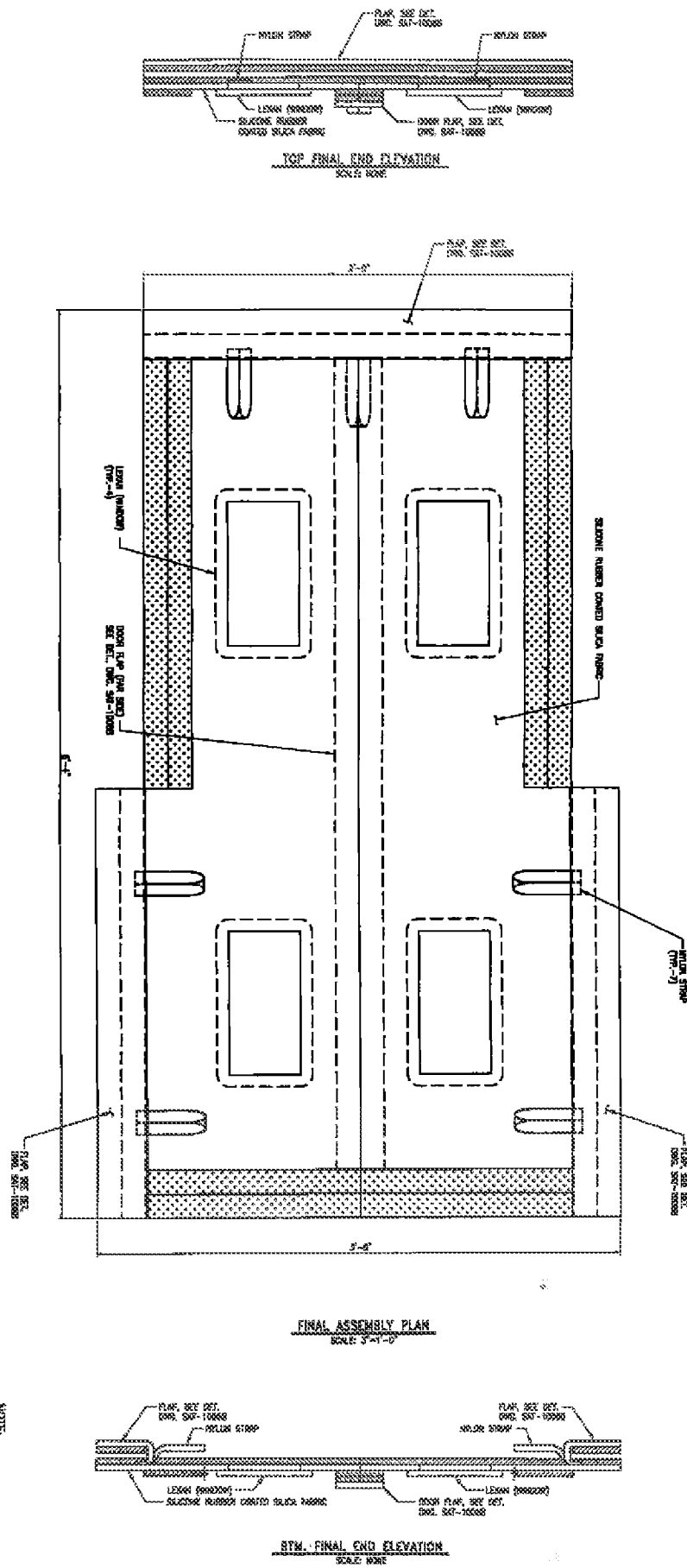
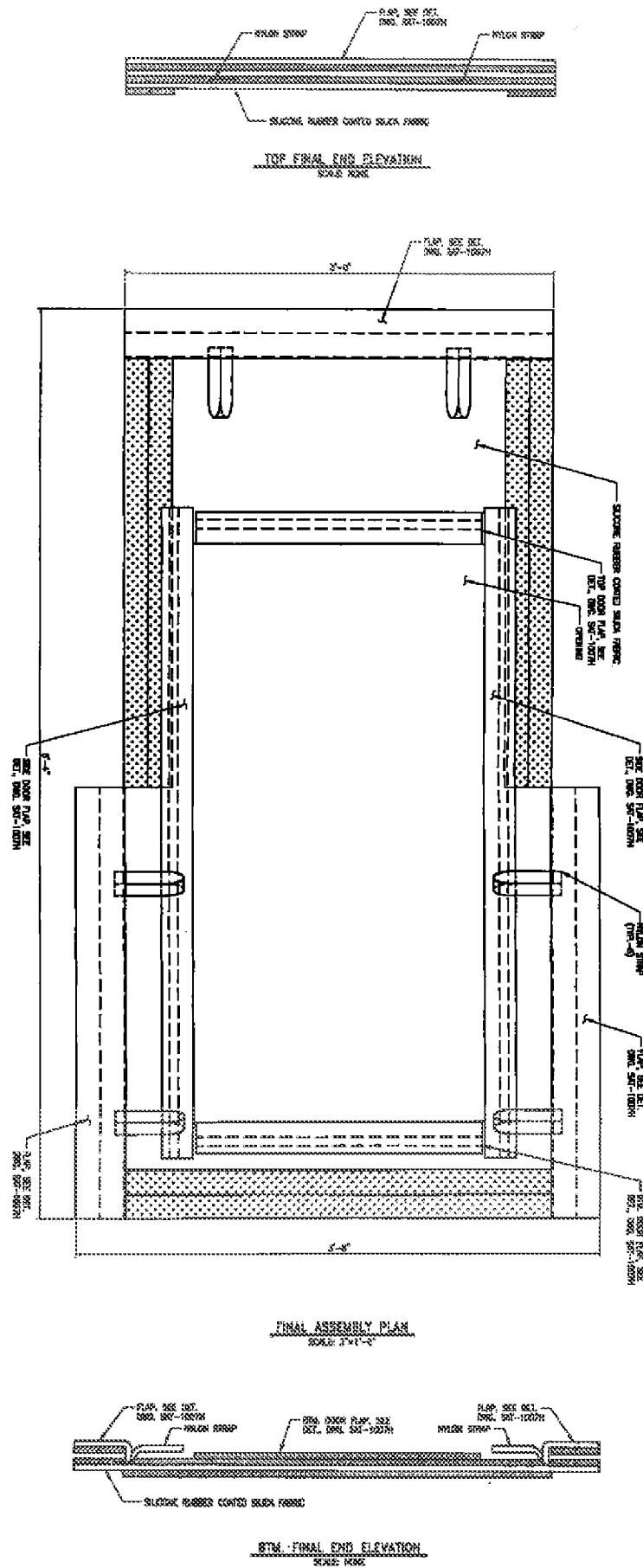
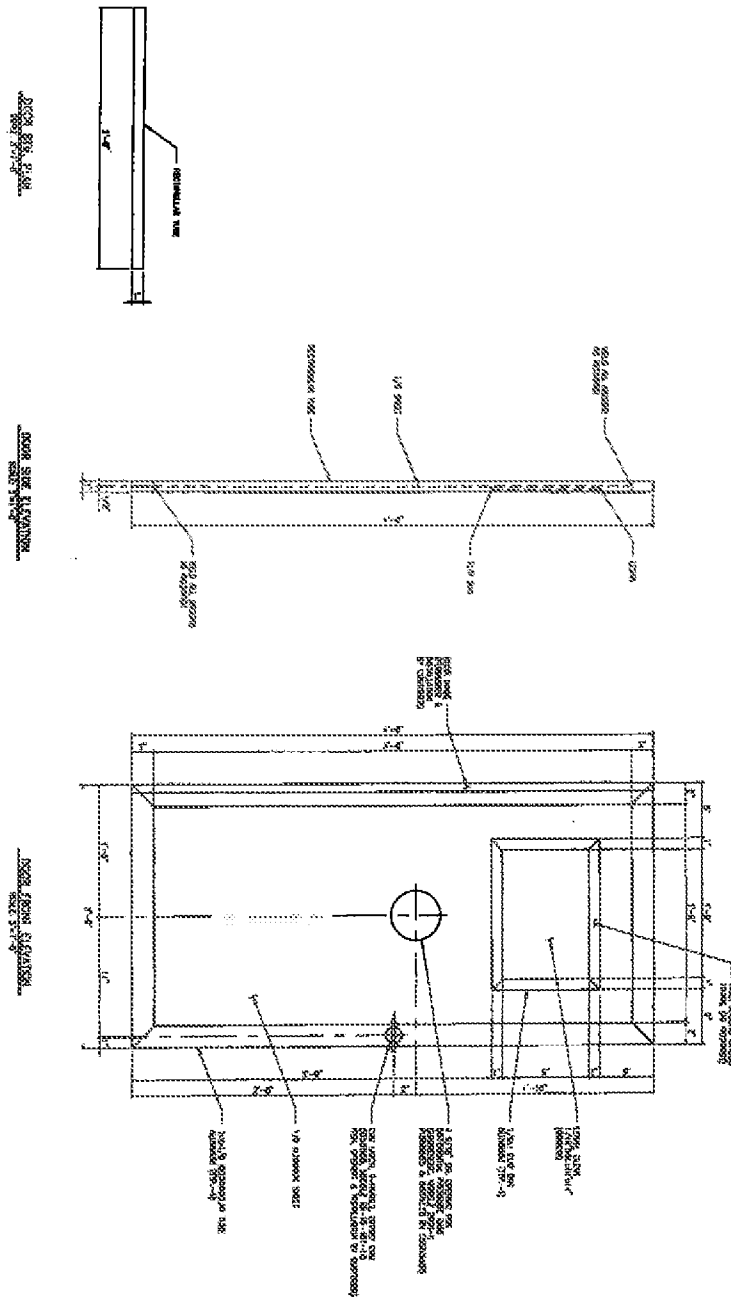


Fig. 13



NOTE:
1. ALL DIMENSIONS
ARE APPROXIMATE

Fig. 14



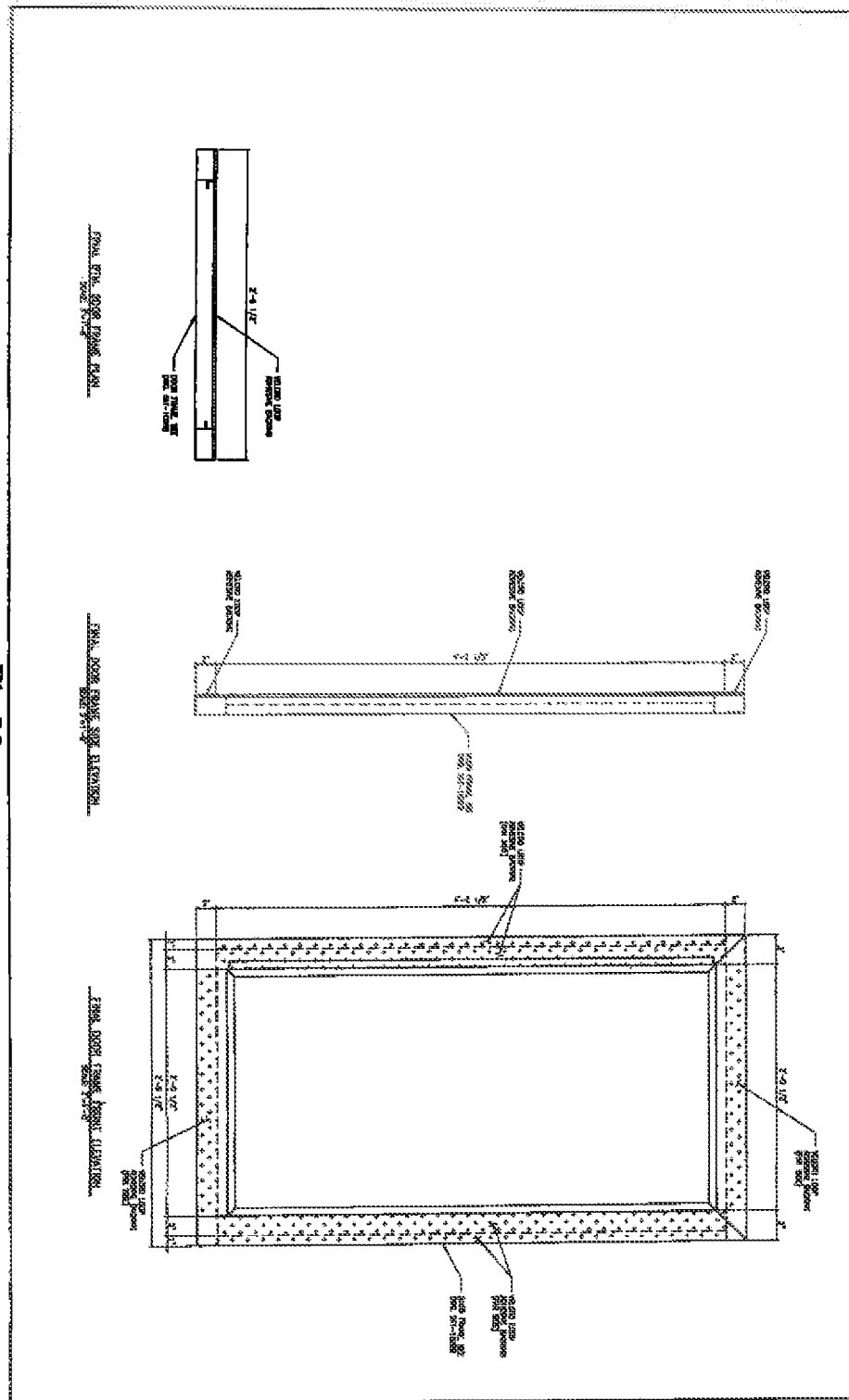


Fig. 16

Electronic Patent Application Fee Transmittal

Application Number:

Filing Date:

Title of Invention:

Welding Enclosure

First Named Inventor/Applicant Name:

Harry Paul Benoit

Filer:

Ted M. Anthony/Andria Thibodeaux

Attorney Docket Number:

5408.2546

Filed as Small Entity

Provisional Filing Fees

Description

Fee Code

Quantity

Amount

**Sub-Total in
USD(\$)**

Basic Filing:

Provisional Application filing fee

2005

1

125

125

Pages:

Claims:

Miscellaneous-Filing:

Petition:

Patent-Appeals-and-Interference:

Post-Allowance-and-Post-Issuance:

Extension-of-Time:

IPR2025-01214

Exhibit 2023

Page 34 of 37

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Miscellaneous:				
Total in USD (\$)				125

Electronic Acknowledgement Receipt

EFS ID:	14075428
Application Number:	61718372
International Application Number:	
Confirmation Number:	6491
Title of Invention:	Welding Enclosure
First Named Inventor/Applicant Name:	Harry Paul Benoit
Customer Number:	31230
Filer:	Ted M. Anthony/Andria Thibodeaux
Filer Authorized By:	Ted M. Anthony
Attorney Docket Number:	5408.2546
Receipt Date:	25-OCT-2012
Filing Date:	
Time Stamp:	14:44:37
Application Type:	Provisional

Payment information:

Submitted with Payment	yes
Payment Type	Credit Card
Payment was successfully received in RAM	\$ 125
RAM confirmation Number	1050
Deposit Account	
Authorized User	

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	IPR Mod 101214 Pat 101214 Pat 101214 Pat 101214	Pages (if appl.)
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1	Specification	5408_2546_provpap_APP.pdf	129048 91660703db3dfd3cd548da34d5e608cd88c90a72	no	5
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Information:					
2	Drawings-other than black and white line drawings	5408_2546_provpap_FIGS_17_21.pdf	391792 6cb47a89fc062d3c6cc976bf71514deb58ea7f92	no	5
Warnings:					
Information:					
3	Provisional Cover Sheet (SB16)	5408_2546_provpap_COV.pdf	2071680 63823af327ad1d419cc8da3cafb3dd700326debb	no	3
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Information:					
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5	Fee Worksheet (SB06)	fee-info.pdf	29342 74f479b79e96338a8cd81c6994d348dfba89623f	no	2
Warnings:					
Information:					
Total Files Size (in bytes):			3051713		
<p>This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.</p> <p><u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.</p> <p><u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.</p> <p><u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.</p>					