

# ***INSTALLATION MANUAL***

*For*

## ***ARCTIC SAFE MARINE COLD STORAGE SPACE***

*Cospolich Refrigerator Co., Inc.  
Destrehan, LA 70079 USA  
800-423-7761*



Revised 5/16/03

# **INSTALLATION MANUAL**

**Equipment:** Arctic Safe Marine Cold Storage Space

**Foreword:** The Cospolich Arctic Safe Cold Storage Room is engineered and built for the specific requirements of the marine environment. In its design special consideration has been given to compensate for and accommodate the vibrations, movements and rough duty which is normal in this application.

It was also important in the design that the Arctic Safe has the capability of being disassembled in the future with the ability of being reassembled.

## **Materials Furnished:**

1. Silicone Caulking (Aluminum and clear)
2. Fastener Cap Screws
3. Cam Wrench (5/16")
4. Vinyl Caps (Gray)
5. Caulking Gun

**Note:** Caulking should be kept at between 75 to 90 degrees so that they can be more easily applied.

## **Panels Furnished:**

1. Wall
2. Corner
3. Tee (in cooler/freezer applications)
4. Door Section
5. Floor
6. Ceiling

**A. *Preparing the Deck***

1. Prior to installation, the deck must be inspected and determined free of obstructions. Even though the Arctic Safe can accommodate moderately untrue decks, those with excessive irregularities should be adjusted by either floating true or shimming.

**Note:** When installing the floor, it is necessary to begin at the highest point on the floor. This allows you to shim as required during installation.

**B. *Fastening System***

**Note:** One important aspect of the design of the Arctic Safe System is the panel fasteners. These fasteners have individual locking capacities of 2,000 pounds.

1. A 5/16" hex wrench, which is provided with the installation tools, operates the panel fastener locks. Inserting the tool and turning the wrench in a clockwise direction will draw in and lock panel fastener. Should the lock not engage the pin, reset by first rotating in the counterclockwise direction until the cam tongue is fully extended. Then, repeat the clockwise rotation.
2. With the panels in place, you may now remove the protective plastic coating. Simply peel from the stainless.

**C. *Installation of the Floor Panels***

1. All floor panels are identified by letters (Example F1) which relate to those on the installation drawing.
2. The first floor end panel should be placed into position. Apply the clear silicone sealer as described under "*Panel Sealing*".
3. Place the second panel into place and secure together with the panel fasteners. Follow the same process with the remaining panels.

## **D. Installation of Wall Sections and Ceiling**

**Reminder:** It is necessary on each section to place a continuous bead of the clear silicone sealer.

1. Place the first panel in the appropriate position and then place the adjacent wall panel next to it. Fully lock only the center vertical panel fastener and only one of each panel fastener to the floor.

Make certain that the panels are aligned and even at the top and bottom. As little as 1/16" difference in height can create difficulty with follow up panels.

2. Proceed by placing wall sections in the assembly order marked on the panel, locking the middle panel fastener only and hooking only the top and bottom panel fasteners. Lay the first ceiling into place but do not lock it. Depending on how tight the working quarters are, sections of the ceiling may need to be assembled prior to completely installing the vertical wall sections.

**Note:** Special attention should be given to the door section to make certain that it is in proper alignment.

3. Once all panels have been installed and the unit is deemed to be in proper alignment, it is then necessary to proceed with locking all the panel fasteners.

## **E. Sealing the Panels**

1. A seven step procedure has been developed in order to insure that the wall and ceiling panels are airtight and do not leak.

**1<sup>st</sup> Step:** **Panel Rail** – Place a continuous bead of the silicone in the groove of the female portion of the panel rail. When you come upon a camlock strike, continue around then come back and place a bead on the other side. This extra step isolates the mechanism from moisture.

**Note:** It is not necessary to have a bead of silicone greater than 1/4".

- 2<sup>nd</sup> Step:** **Panel Flanges** – Place a similar bead of silicone on the one inch metal flange.
- 3<sup>rd</sup> Step:** **Protective Plastic** – With the panels in place, you should now remove the PVC plastic which protects the stainless steel surfaces. This is accomplished by simply peeling it from the stainless.
- Note:** Never use any type of scraper or tool to remove plastic coating as it may scratch the surface.
- 4<sup>th</sup> Step:** **Panels Seams (Optional)** – For reasons of cosmetics, you may wish to apply the aluminum colored silicone to the finished panel seam. This is left to the installer's discretion.
- 5<sup>th</sup> Step:** **Access Holes** – Into each panel fastener wrench access, fill with the silicone. This insures that the mechanism will remain dry.
- 6<sup>th</sup> Step:** **Fastener Cap Screws** – Neoprene gasketed cap screws are provided to seal the floor fastener access openings. Using a large blade standard screwdriver, install a fastener in each floor camlock hole.
- 7<sup>th</sup> Step:** **Vinyl Caps** – Vinyl caps are provided for the walls and ceiling. In most instances you can apply by only pressing into place with your thumb. If required, a hammer may be used to tap the cap into place.

## Cabinet Parts List

DESCRIPTION	PART #	COSPOLICH PART #	QTY.	SOURCE
Hinge	1251	HXHE03	6	Kason
Latch	K55	HXLH03	2	Kason
Hold Back Hook	5104	HXHE09	2	Kason
Mullion Heater		L1HA174	2	Cospolich

## Refrigeration Parts List - Thaw

DESCRIPTION	PART #	COSPOLICH PART #	QTY.	SOURCE
Condensing Unit 115V R134A	FTAH-B074-IAA-212		1	Copeland
Hi/Lo Control	1549	RWPL03	1	Ranco
Dryer	C083S	RWFD03	1	Sporlan
Sight Glass	SA13S	RWSG02	1	Sporlan
Evaporator Coil 115V	ADT052AK		1	Heatcraft
Evaporator Motor	25300101		1	
Evaporator Fan	DD21194A2		1	
Expansion Valve	FJE-1/2C		1	Sporlan
Thermostat	A319	RWTT08	1	Johnson Cont
Back Plane 16 ga. Stainless			2	Cosp
Gauge, Suction	SGE3M4Y		2	Moeller
Gauge, Discharge	SGF3M4Y-G		2	Moeller
Tag Suction pressure			2	Creative G
Tag Discharge Press.	214-4		2	Creative G

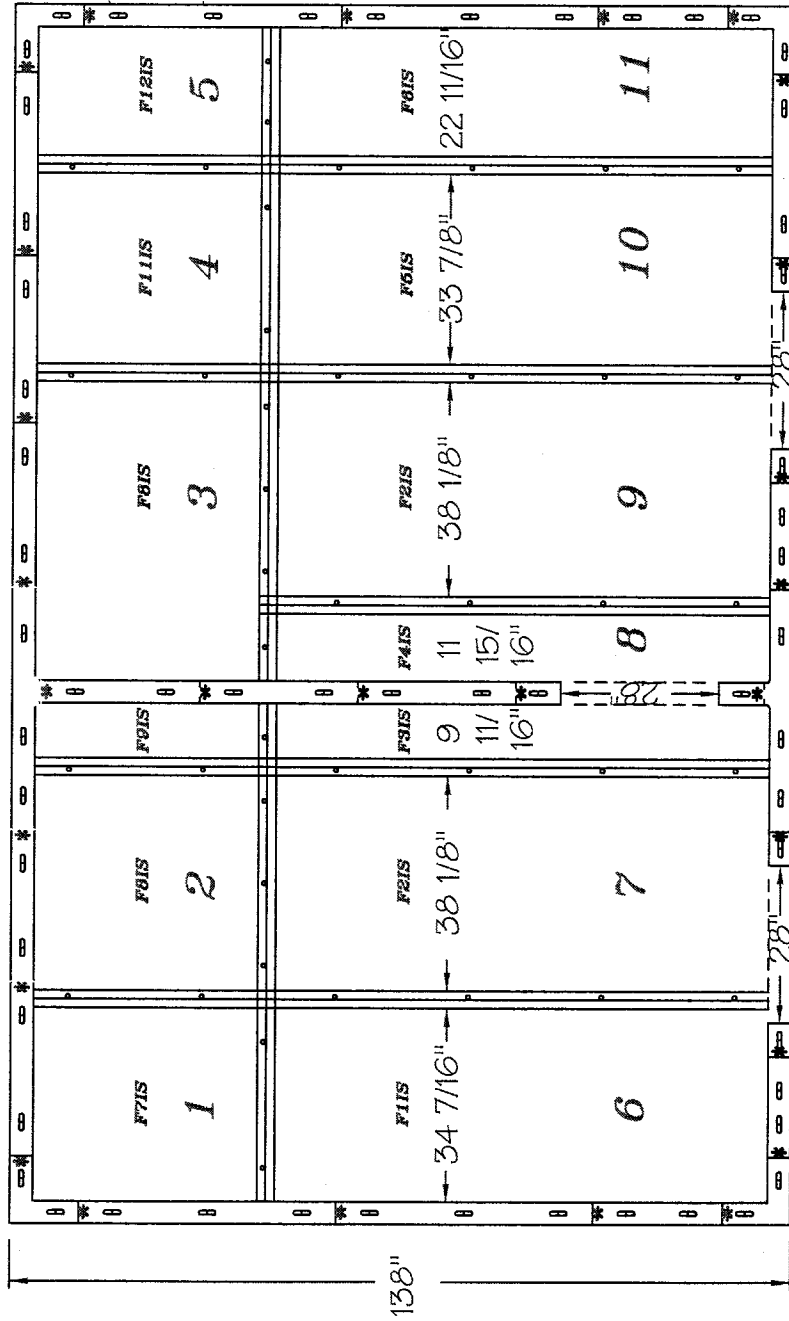
Valve, on/off	M1156-1196		2	Derbyshire
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## Refrigeration Parts List - Freezer

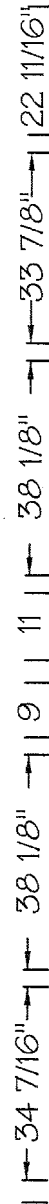
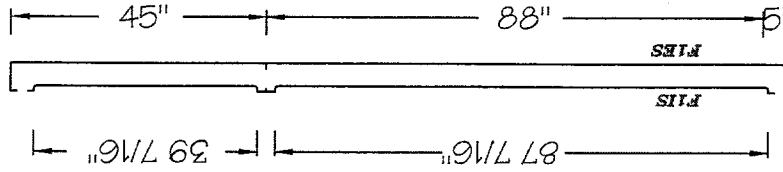
DESCRIPTION	PART #	COSPOLICH PART #	QTY.	SOURCE
Condensing Unit 460V 404A	FJAL-A225-TFD-020		1	Copeland
Thermostat	A319	RWTT08	1	Johnson Cont
Hi/Lo Control	1549	RWPL03	1	Ranco
Dryer	C163	RWFS04	1	Sporlan
Sight Glass	SA13S	RWSG02	1	Sporlan
Evaporator Coil we change to 115V	LET065BK	RWE640	1	Heatcraft
Motor	25300101(5008-SS)		2	Heatcraft
Heater, Defrost dwg. # 00132	54-286M	RWE103	3	RHS
Heater, Drain pan dwg. # 00132	54-286M	RWE103	1	RHS
Expansion valve	FSE-1Z		1	Sporlan
Fan Control	5709L		1	Heatcraft
Defrost Terminator	5708L		1	Heatcraft
Valve, Solenoid	ME6S130		1	Sporlan
Coil, Solenoid	MKC-1-120	RWSC01	1	Sporlan
Defrost timer	8145-00	RWDT01	1	Paragon

# INTERIOR FLOOR LAYOUT !!

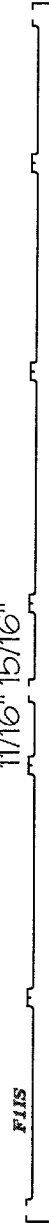
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## SIDE VIEW



11/16" 15/16"

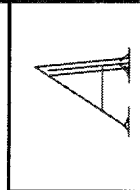


F11S

F11S



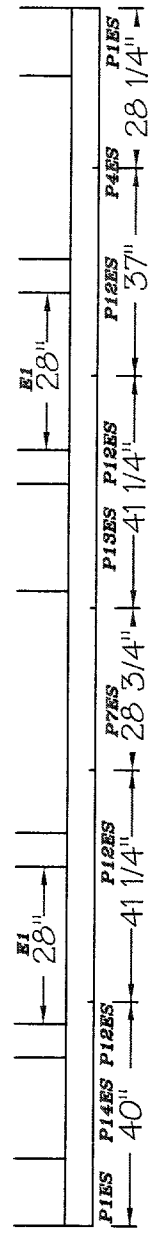
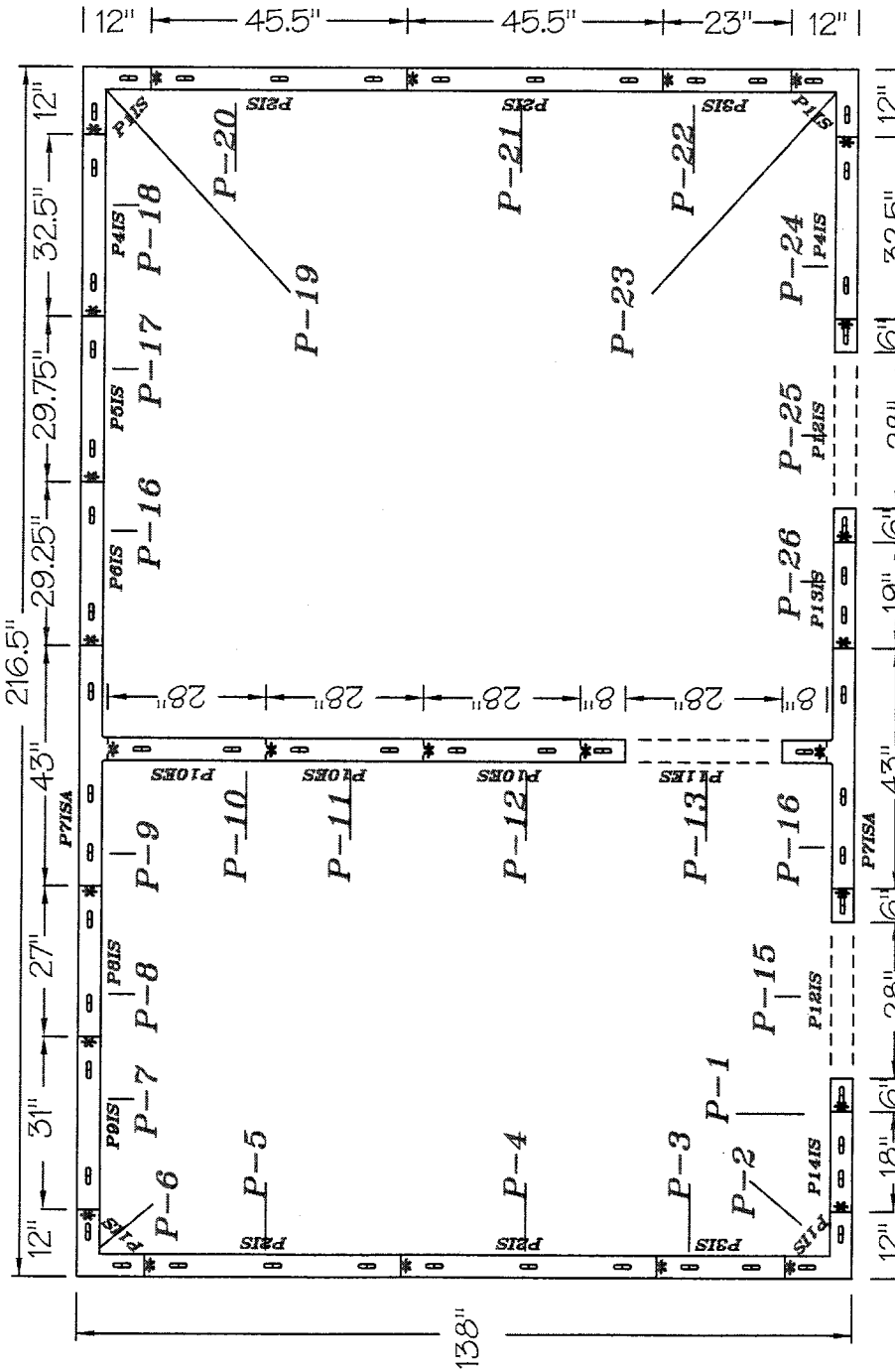
## FRONT VIEW



ITEM WALK-IN 2- SECTION THAW CABINET	
PROJECT USS DWIGHT D. EISENHOWER	JOB #01-4972-3
DATE 8/19/02	SCALE YES
DWN. BY TG	
COSPOLICH INC.	
NORCO, LOUISIANA	



# INTERIOR & EXTERIOR WALL LAYOUT !!

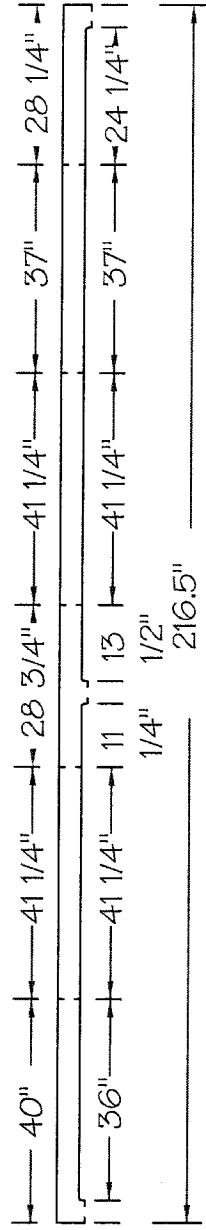
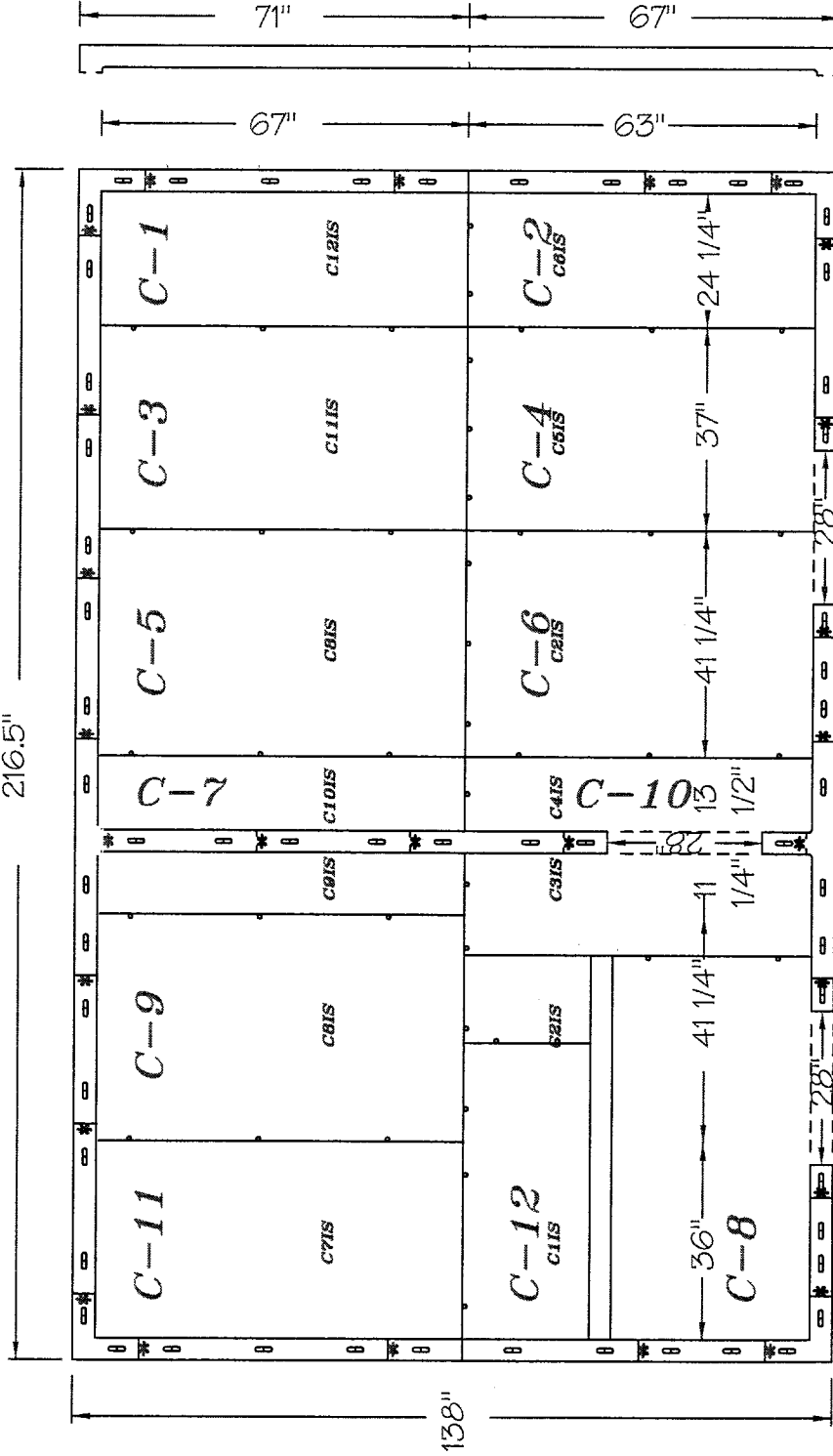


FRONT VIEW

Walls #

ITEM WALK-IN 2- SECTION THAW CABINET	
PROJECTUSS DWIGHT D. EISENHOWER	JOB #01-4972-3
DATE 8/19/02	SCALE YES
DWN. BY TG	
COSPOLICH INC.	
NORCO, LOUISIANA	

# INTERIOR CEILING LAYOUT !!



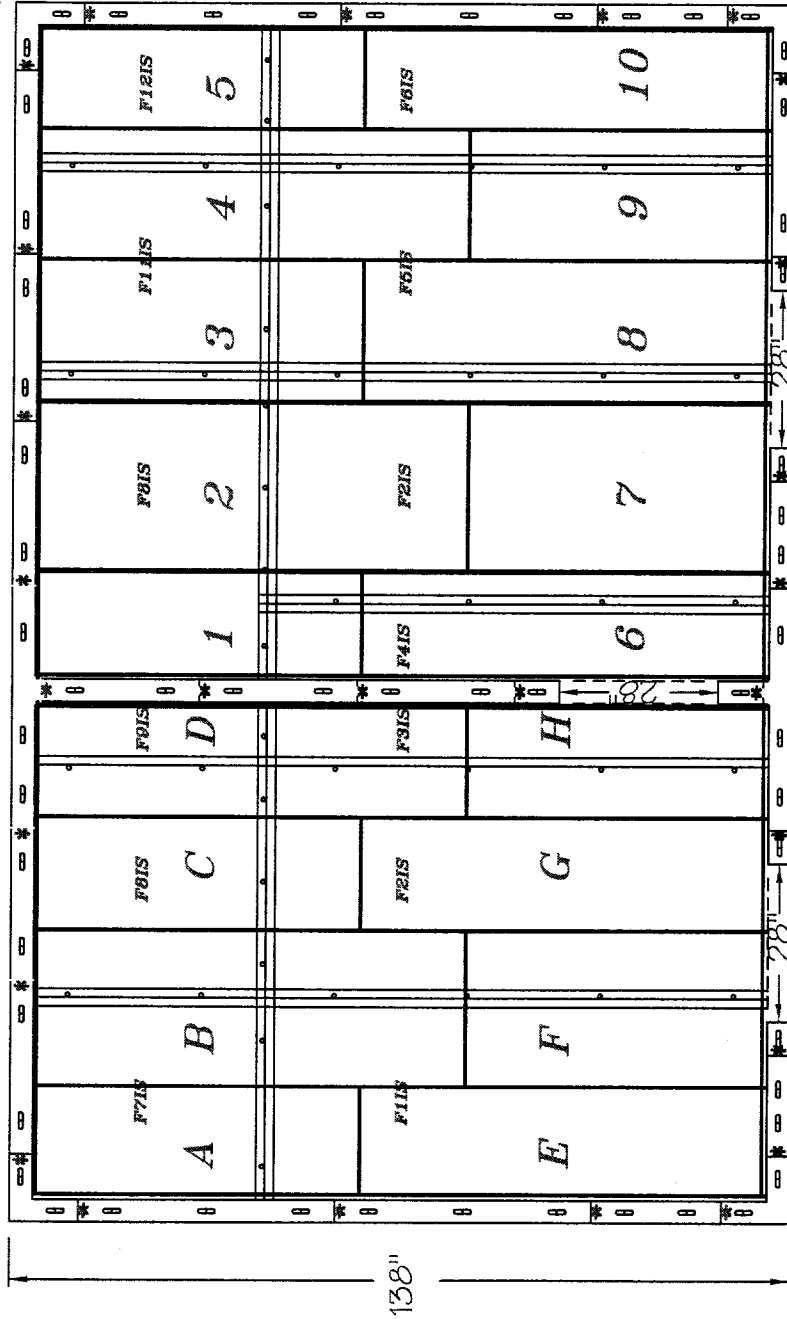
Ceiling #

ITEM WALK-IN 2- SECTION THAW CABINET
PROJECT/ISS DWIGHT D. EISENHOWER
DATE 8/19/02
SCALE YES
JOB #01-4972-3
DWN. BY TG
NORCO, LOUISIANA

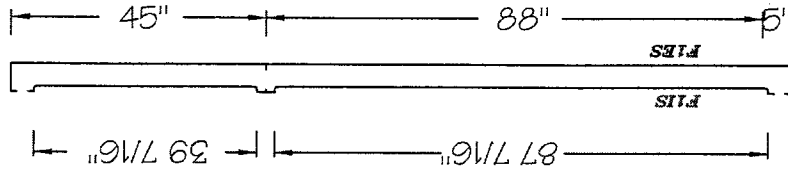
COSPOLICH INC.

# INTERIOR FLOOR GRATING LAYOUT !!

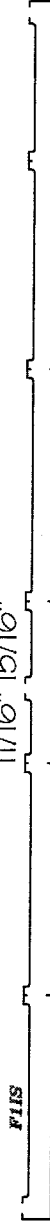
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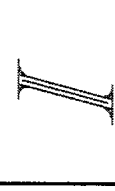
SIDE VIEW



11/16" 15/16"

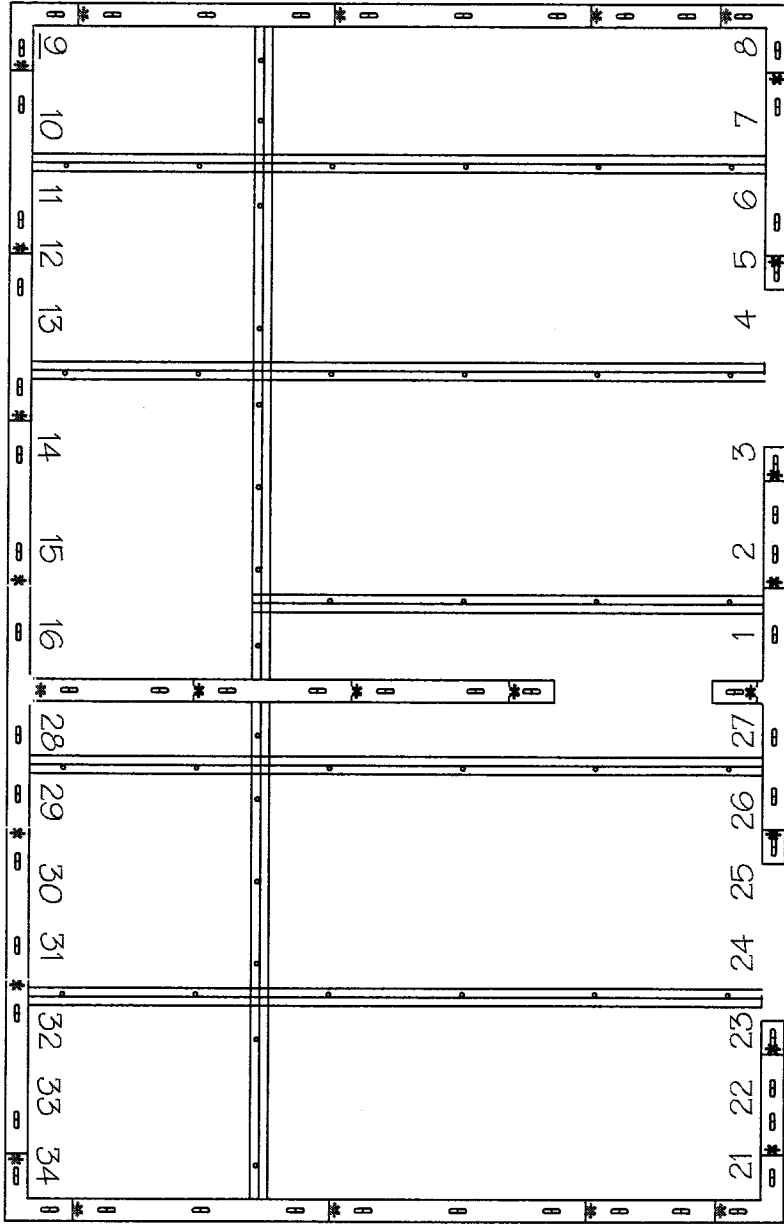


FRONT VIEW



ITEM WALK-IN 2 - SECTION THAW CABINET	
PROJECT USS DWIGHT D. EISENHOWER	JOB #01-4972-3
DATE 8/19/02	SCALE YES
DWN. BY TG	
COSPOLICH INC.	
NORCO, LOUISIANA	

# INTERIOR FLOOR GRATING LAYOUT !!



## INSTALLATION NOTES

- The floor grating pieces are numbered
- Match the numbers on the pieces with the numbers on the drawing
- The numbers on the pieces **MUST** face the same direction as the numbers on the drawing

J

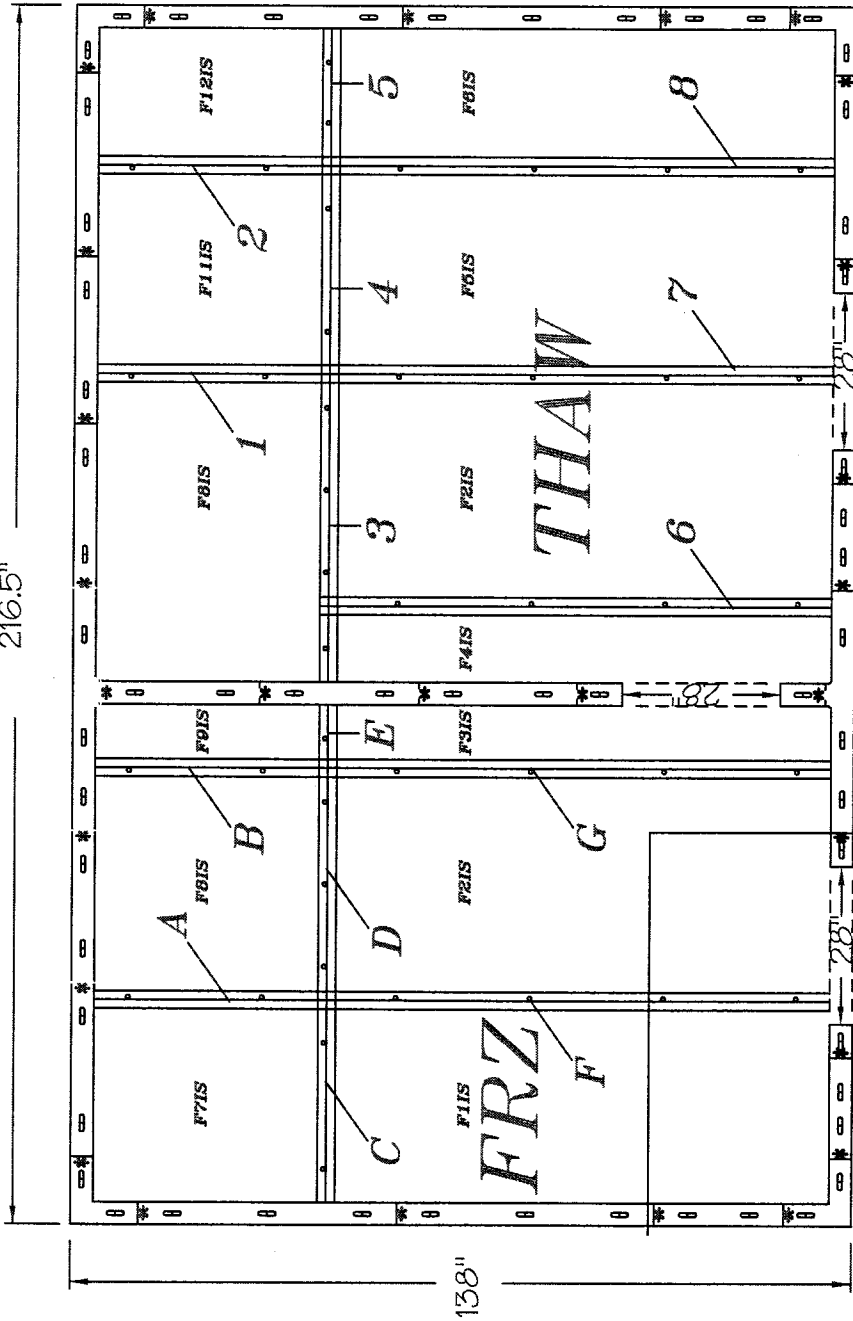
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 DATE 1/14/03 SCALE - DWN. BY TW

COSPOLICH INC.

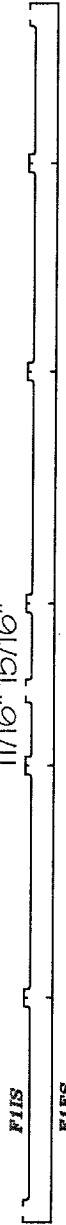
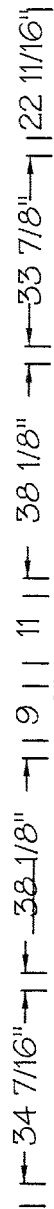
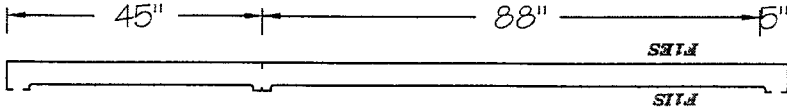
NORCO, LOUISIANA

# INTERIOR FLOOR CAP LAYOUT !!

216.5"



SIDE VIEW



FRONT VIEW

K

ITEM WALK-IN 2- SECTION THAW CABINET	
PROJECTUSS DWIGHT D. EISENHOWER	JOB #01-4972-3
DATE 8/19/02	SCALE YES
DWN. BY TG	
COSPOLICH INC.	
NORCO, LOUISIANA	