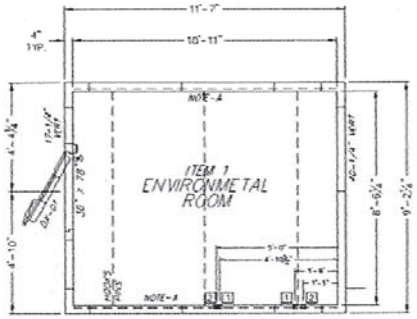
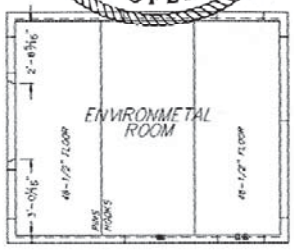


– VERTICAL & CEILING PANEL LAYOUT –



– FLOOR PANEL LAYOUT –

– PLAN VIEW A –

SCALE: 3/8" = 1' – 0"

SPECIFICATIONS

11'-7" X 9'-2 1/4" X 9'-4 1/8" W/ 2" FLOORS

INSTALLATION
- INDOOR
- LOADING HEIGHT – AT LEAST 24" OF OPEN SPACE MUST BE MAINTAINED BETWEEN TOP OF PRODUCT AND CEILING PANELS

INSULATION
- POURED IN-PLACE POLYURETHANE FOAM
- BALLY PANELS AND DOORS ARE CERTIFIED COMPLIANT WITH CURRENT FEDERAL DOE REGULATIONS FOR WALK IN COOLERS & FREEZERS
- BALLY PANELS AND DOORS EXCEED MINIMUM R-VALUES* FOR COOLERS (MINIMUM R-25, EXCLUDING FLOORS), AND FREEZERS (MIN. R-32, EXCEPT FLOORS, WHICH ARE MIN. R-28)
*WHEN TESTED PER ASTM C518 TO FEDERAL REG. 431.304

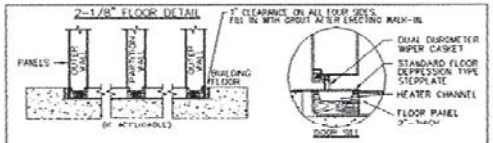
EXTERIOR FINISH
- WHITE POLYESTER

INTERIOR FINISH
- WHITE POLYESTER

FLOOR FINISH
- (INTERIOR) RIDGED STAINLESS STEEL
- (EXTERIOR) WHITE POLYESTER

DOORS/ACCESSORIES
- (1) 36" X 84" LEFT SWING HINGED WALK-IN DOOR
  - THIRD HINGE
  - K70C DEADBOLT LATCH
  - CONDUIT TO TOP OF FRAME
  - 14" x 24" OBSERVATION WINDOW
  - INTERIOR CROSSOVER CORD
  - LIGHT BASE MOUNTED TO SIDE
  - ADA LIGHT SWITCH AT 35" C/L

REFRIGERATION
- REFRIGERATION DESIGN, INSTALLATION/MOUNTING & SUPPORT ALL BY OTHERS.

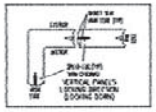


NOTE: BEARING SURFACE UNDER FLOOR PANELS MUST BE LEVEL AND DRY. BOTTOM OF PANELS MUST HAVE AT LEAST 80% CONTACT WITH FLOORS.

NOTE: IF MOISTURE IS PRESENT UNDER BUILDING FLOOR, A VAPOR BARRIER MUST BE APPLIED BETWEEN BUILDING FLOOR AND PREFAB PANELS.

NOTE: BALLY TO FURNISH THE PREFAB SECTIONAL WALK-IN COOLER OR FREEZER ONLY (UNLESS OTHERWISE SPECIFIED). THIS INCLUDES WALLS AND CEILING PANELS.

NOTE: THESE DRAWINGS ARE INTENDED TO SERVE AS GUIDE LINE DRAWINGS ONLY. THEY ARE NOT INTENDED TO BE CONSTRUCTION DRAWINGS AS CONDITIONS MAY VARY WIDELY. DIMENSIONAL AND MATERIAL DESIGN TO BE DETERMINED BY PROJECT CONSTRUCTION ENGINEER.



THIS DRAWING IS TO BE USED FOR "APPROVAL ONLY".

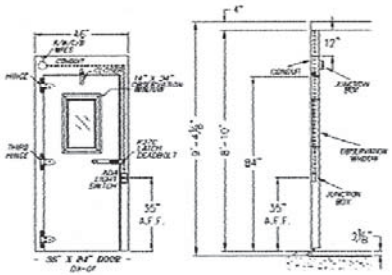
-> DO NOT USE THIS DRAWING FOR INSTALLATION

EVERY SHIPPED ORDER WILL HAVE A FINALIZED "AS-BUILT" DRAWING.

GENERAL NOTES

- NOTE A: BALLY TO FURNISH 14 GA. GALVANIZED STEEL FORMED IN PLACE AGAINST INTERIOR SKIN AS SHOWN. (FULL HEIGHT)
- NOTE: FOR ALL JUNCTION BOXES FORMED IN PLACE, BALLY TO FURNISH CONDUIT WITHIN VERTICAL PANEL EXTENDING FROM JUNCTION BOXTO THE TOP EDGE OF THE VERTICAL PANEL. BALLY WILL ALSO FURNISH A CONDUIT EXTENSION WITH NIPPLE AND J-BOX LOOSE. ALL ADDITIONAL HOLES, SLEEVES, J-BOXES, AND CONDUIT TO BE FURNISHED BY OTHERS; INSTALLATION BY OTHERS.

ITEM	QTY	MOUNT	USE	SIZE	CONDUIT	WIRE C/S	ITEM
[1]	2	ON VERTICAL	DATA	4" X 2"	3/4"	4/0	EB
[2]	2	ON VERTICAL	ALARM	2" X 4"	3/4"	10/	EB



– SECTION VIEW –
THRU ENTRANCE DOOR

SCALE: 3/8" = 1' – 0" SHEET 1 OF 1

RESTRICTED, CONFIDENTIAL DOCUMENT.

THIS DRAWING AND ALL INFORMATION SHOWN HEREON ARE THE EXCLUSIVE PROPERTY OF BALLY REFRIGERATED BOXES, INC. ARE SUBMITTED JOINTLY ON A CONFIDENTIAL BASIS. THE RECIPIENT AGREES NOT TO REPRODUCE THE DRAWING, TO RETURN IT UPON REQUEST, AND THAT NO DISCLOSURE OF THE DRAWING OR THE INFORMATION SHOWN HEREON WILL BE MADE TO A THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT FROM BALLY REFRIGERATED BOXES INC.

SIGNED APPROVAL

SIGNED _____

DATE _____

PLEASE READ

THIS DRAWING HAS BEEN CAREFULLY CHECKED BY OUR DRAFTING DEPARTMENT. HOWEVER, ERRORS OF INTERPRETATION CAN OCCUR. THEREFORE, BEFORE YOU RETURN DRAWING MARKED APPROVED, BE CERTAIN THAT YOU CHECK THEM CAREFULLY.

NOTE – THIS ORDER WILL NOT BE SCHEDULED FOR PRODUCTION UNTIL RECEIPT OF APPROVED DRAWING BY BALLY.

IMPORTANT – PLEASE READ

THESE DRAWINGS ARE NOT TO BE CONSIDERED AS APPROVED BY LOCAL OR STATE BUILDING AUTHORITIES.

THIS HAVE BEEN PREPARED SOLELY FOR THE GUIDANCE OF REGISTERED ARCHITECTS AND ENGINEERS AND FOR THE ASSISTANCE OF LOCAL INSTALLERS. IT IS THE RESPONSIBILITY OF THE PURCHASER AND/OR OF ENGINEER TO ASSURE THE BUILDING DESIGN, SITE PREPARATION AND INSTALLATION CONFORM TO ALL APPLICABLE CODES AND ORDINANCES. THE INFORMATION CONTAINED IN THE GENERAL CONSTRUCTION NOTES AND SPECIFICATIONS HEREIN ARE SUGGESTIONS ONLY. BALLY'S PARTICIPATION DOES NOT ASSUME, NOR IT BE RESPONSIBILITY FOR THE SUCCESSFUL COMPLETION OF PROJECT OR THE STRUCTURE REFERENCED.

THE DRAWINGS AND SPECIFICATIONS REFLECT A BUILDING ASSEMBLED FROM BALLY PANELS FABRICATED WITH EXPOSED, FOAMED-IN-PLACE, THE EDGE AND SHAPE IS THAT OF STANDARD BALLY PANELS. CLEARLY NOTE DIMENSIONS SUBMITTED BY THE USER.

BALLY REFRIGERATED BOXES, INC., PROVIDES PANELS FABRICATED TO SPECIFICATIONS PROVIDED BY OWNERS, AND IS NOT RESPONSIBLE FOR THE SELECTION OR RECOMMENDATION BY OTHERS OF THE PANEL FINISH FOR ANY BUILDING OR HEALTH APPLICATION.

REV	DESCRIPTION	BY	DATE

Bally REFRIGERATED BOXES INC.

FOR
WEBSTER UNIVERSITY
WEBSTER GROVES, MO

DRAWING NUMBER: 169945AC DATE: 12/07/16
DRAWN BY: RCB ORDER NUMBER: 169945

Bally Building Analysis

Quote ID: 169945-1--CCW

Quote ID:	169945-1--CCW				
Job:					
Date:	12/6/2016				
Building Size:	Width: 9'-8" Lenth: 11'-7" Height: 9'-2"				
Location:	, MO			**Code:**	UBC
Load:	6 psf (Dead) + 10 psf (Live) = 16 psf (Total)			**Wind Speed:**	44 mph
Wall Type:	4 inch Panel with 24 Gauge Skin	**Thickness:**	4 "	**Skin:**	0.026
Ceiling Type:	4 inch Panel with 24 Gauge Skin	**Thickness:**	4 "	**Skin:**	0.026

Structural Calculations

Wind Loads:

Wind Pressure Q = 4.53 psf, UBC specs @ ce = 0.9

Side Wall Windward 3.62419 psf, Leeward 2.26512 psf

Roof Uplift 3.17117 psf, Endwall 5.43629 psf

Ceiling Reaction p1 = 156.3326 lbs p2 = 130.4646 lbs, Wavg = 26.9927 lb/ft

Wall Span:

Q wall allow > WSWE = 3.62 or LSWE = 2.27 or Endwall = 5.44 or 15 psf

Q wall allow = 1.33 * k3 = 49.06 psf @ span = 9.17 ft > WSWI or LSWI or EW

Ceiling Span:

Q ceiling allow > DL + LL = 610 psf or RUWI - 0.8 * DL = -1.62883

Q ceiling allow = k3 = 34.21 psf @ span = 9.67 ft

Ceiling Diaphragm: 0 -1 16. 0

Wceiling allow > Wactual = 26.9927 plf

Wall = k * k1 / k2 = 387 * 92.0 / 201.26 = 176.91 plf > Wactual @ L1 = 11.58

Ceiling Diaphragm - Short Direction: 0 -1 16 0

Wceiling allow > Wactual = 26.9927 plf

Wall = k * k1 / k2 = 387 * 161.0 / 140.17 = 444.52 plf > Wactual @ L1 = 9.67

Short Wall Diaphragm: 6.67 ft

Vact < Vallow = 333 or 750 w/reinf Bolt act < Bolt allow = 625 for WA1

Vact = p1 * h * 12 / k4 / nos = 156.33 * 9.17 * 12 / 61.56 / 3 = 93 < Vallow = 333

Bolt act = p1 * h * 12 / k5 = 156.33 * 9.17 * 12 / 133.02 = 129.28 Width = 6.67

Long Wall Diaphragm: 11.58 ft

Wact < Vallow = 333 or 750 with Reinf Bolt act < Bolt allow = 625 for WA1

Vact = p2 * h * 12 / k4 / nos = 130.46 * 9.17 * 12 / 105.05 / 3 = 46 < Vallow = 333

Bolt act = p2 * h * 12 / k5 = 130.46 * 9.17 * 12 / 355.33 = 40.39 Width = 11.58

Bally Building Analysis

Quote ID: 169945-1--CCW

Structural Steel Requirement

No Structural Steel is Required.

***** Details Required *****

Shear Plates NOT Required on Ceilings Parallel to Short Side or the Short Wall

Shear Plates NOT Required on Ceiling Joints Parallel to Long Side

Shear Plates NOT Required on the Long Wall Diaphragm

Note: The Above Design Includes Consideration for a Door in the Short Wall Diaphragm

***** Steel Weight *****

Steel Weight = (Column + Beam) * Markup 0 Shear Plates

Weight = (0.0 + 0.0) * 1.08 = 0 lbs

CANNONDESIGN

SUBMITTAL IDENTIFICATION SHEET

To be completed by Contractor/CM

WEBSTER UNIVERSITY ISB
PROJECT NAME

8274 BIG BEND BLVD
ADDRESS

NUMBER

WEBSTER UNIVERSITY
OWNER

CANNON DESIGN
ARCHITECT / ENGINEER

Joe Voypick
SUBMITTED BY

130383-007
CONTRACTOR / CM SUBMITTAL NO.

CANNON DESIGN SUBMITTAL NO.

DRAWING / DETAIL REFERENCE

130383
SPECIFICATION SECTION / PARAGRAPH

MANUFACTURER / SUPPLIER

ITEM / PRODUCT ID

REQUIRED DATE

PRIORITY

○ CRITICAL

ITEM BEING SUBMITTED (check only one)

- ○ Shop Drawings
- ○ Samples (_____ copies)
- ○ LEED Submittal
- ○ Certification / Qualifications
- ○ Record Documents
- ◉ Product Data
- ○ Coordination Drawing
- ○ Calculations
- ○ Schedules
- ○ O&M Manuals
- ○ Other _____

ITEM BEING SUBMITTED FOR (check only one)

◉ Action ○ Information Only ○ Record

REMARKS OR DEVIATIONS

CONTRACTOR / CM CERTIFICATION
(SUBMITTALS NOT CERTIFIED WILL BE RETURNED WITHOUT REVIEW)

PARIC

PARIC CORPORATION
SUBMITTAL STAMP

THIS SHOP DRAWING HAS BEEN REVIEWED BY PARIC CORPORATION

Subcontractor remains responsible for dimensions, quantities, coordination with other trades and compliance with contract documents.

By:
Devin D. Gates

Joe Voypick
REVIEWED BY

2/9/17
DATE

To be completed by Reviewer

13 0383-007 REV002
CANNON DESIGN SUBMITTAL NUMBER

2/9/17
RECEIVED DATE

- ○ A. No Exceptions Taken
  No further review of submittal is required.
- ○ B. Make Corrections Noted
  Incorporate corrections in work; resubmission is not required.
- ○ C. Revise and Resubmit
  Revise as noted, and resubmit for review.
- ○ D. Rejected
  Submittal is not in compliance with Contract Documents; provide new submittal.
- ◉ E. For Record / Information Only
  Submittal was reviewed for Record / Information purposes only.
- ○ F. Not Required for Review
  Submittal is not required by Contract Documents and has not been reviewed.

Review is for conformance with the design concept of this project and for general compliance with contract documents. Contractor is responsible for quantities, dimensions and compliance with contract documents and for information that pertains to fabrication processes, construction techniques and coordination of this work with all trades which will be affected thereby. This review is null and void if submittal deviates from contract documents and does not indicate or note deviations.

A/E COMMENTS ○ See attached sheet(s) for additional comments

Kelvin Patel
Digitally signed by Kelvin Patel
DN: C=US, E=kpatel@cannondesign.com, O=Cannon Design, OU=Architect, CN=Kelvin Patel
Date: 2017.02.23 12:32:12-06'00'
REVIEWED BY

2/23//17
DATE

PARIC
EXPERIENCE. EXCELLENCE.
77 Westport Plaza
Suite 250
St. Louis, MO 63146

TRANSMITTAL

No. 15051-0491

Paric Corporation

PROJECT: 15051-Webster University Interdisciplinary Science Building

DATE: 02/09/2017

TO: Cannon Design
1100 Clark Ave
St Louis MO 63102

Fax;
314-241-2203

RE: Cold Room Equipment Anchorage REV1

ATTN: Kelvin Patel

JOB: 15051

WE ARE SENDING:	SUBMITTED FOR:	ACTION TAKEN:
☐ Shop Drawings	☑ Approval	☐ Approved as Submitted
☐ Letter	☐ Your Use	☐ Approved as Noted
☐ Prints	☐ As Requested	☐ Returned After Loan
☐ Change Order	☐ Review and Comment	☐ Resubmit
☐ Plans		☐ Submit
☐ Samples	**SENT VIA:**	☐ Returned
☐ Specifications	☐ Attached	☐ Returned for Corrections
☑ Other: Product Data	☐ Separate Cover Via:	☐ Due Date:

Item	*Package*	*Code*	*Rev.*	*Copies*	*Date*	*Description*	*Status*
Submittal		130383-007	2		02/09/2017	Cold Room Equipment Anchorage REV1	Submitted

NOTES:

CC:

Signed: _____
Devin Gates