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DRAWING RELEASE HISTORY		
TYPE	DATE	DESCRIPTION
ANCHOR ROD PLAN AND DETAILS 1 THRU 4	3-14-13	FOR CONSTRUCTION
PERMIT DRAWINGS 1 THRU 25	3-14-13	FOR PERMIT ONLY

VP BUILDINGS
VARCO PRUDEN
a division of BlueScope Buildings North America, Inc.

VP Buildings 3200 Players Club Circle Memphis TN 38125

GENERAL NOTES

MATERIALS

	ASTM DESIGNATION	
3 PLATE WELDED SECTIONS	A529, A572, A1011, A1018	GRADE 55
COLD FORMED LIGHT GAGE SHAPES	A653, A1011	GRADE 60
BRACE RODS	A572, A510	GRADE 50
HOT ROLLED MILL SHAPES	A36, A529, A572, A588, A709, A992	GRADE 36 OR 50
HOT ROLLED ANGLES	A529, A572, A588, A709, A992	GRADE 50
HOLLOW STRUCTURAL SECTION (HSS)	A500	GRADE B
CLADDING	A653, A792	GRADE 50 OR GRADE 80

CITY OF PORTLAND, MAINE — RESURGAM
Reviewed for Code Compliance
Inspections Division
Approved with Conditions
Date: 06/10/13

A325 & A490 BOLT TIGHTENING REQUIREMENTS

IT IS THE RESPONSIBILITY OF THE ERECTOR TO ENSURE PROPER BOLT TIGHTNESS IN ACCORDANCE WITH APPLICABLE REGULATIONS. SEE RCSC SPECIFICATION FOR STRUCTURAL JOINTS USING A325 OR A490 BOLTS FOR MORE INFORMATION. SEE ERECTION GUIDE FOR BOLT TIGHTENING INSTRUCTIONS. THE FOLLOWING CRITERIA MAY BE USED TO DETERMINE THE BOLT TIGHTNESS (I.E.-SNUG TIGHT OR PRE-TENSION) UNLESS REQUIRED OTHERWISE BY LOCAL JURISDICTION OR CONTACT.

ALL A490 BOLTS SHALL BE "PRE-TENSIONED". A325 BOLTS IN PRIMARY FRAMING AND BRACING CONNECTIONS MAY BE " SNUG-TIGHT" EXCEPT AS FOLLOWS;

PRE-TENSION A325 BOLTS IF BUILDING SUPPORTS A CRANE GREATER THAN 5 TON CAPACITY.

PRE-TENSION A325 BOLTS IF BUILDING SUPPORTS MACHINERY THAT CREATES VIBRATION, IMPACT, OR STRESS REVERSALS ON CONNECTIONS.

PRE-TENSION A325 BOLTS IF LOCATED IN HIGH SEISMIC AREAS. FOR IBC BASED CODES; HIGH SEISMIC IS DESIGN CATEGORY D, E OR F. SEE CODES AND LOADS SECTION BELOW FOR DETAILS.

PRE-TENSION ANY CONNECTION WITH DESIGNATION A325-SC. SLIP CRITICAL (SC) CONNECTIONS MUST BE FREE OF PAINT, OIL, OR OTHER MATERIALS THAT REDUCE FRICTION AT CONTACT SURFACES. GALVANIZED OR LIGHTLY RUSTED SURFACES ARE ACCEPTABLE.

IN CANADA ALL A325 AND A490 BOLTS SHALL BE "PRE-TENSIONED", EXCEPT FOR SECONDARY MEMBERS AND FLANGE BRACES.

SECONDARY MEMBERS AND FLANGE BRACE CONNECTIONS ARE ALWAYS "SNUG TIGHTENED" UNLESS INDICATED OTHERWISE IN ERECTION DRAWING DETAILS.

CODES AND LOADS

WHEN MULTIPLE BUILDINGS ARE INVOLVED, SPECIFIC LOAD FACTORS FOR DIFFERING OCCUPANCIES, BUILDING DIMENSIONS, HEIGHTS, FRAMING SYSTEMS, ROOF SLOPES, ETC., MAY RESULT IN DIFFERENT LOAD APPLICATION FACTORS THAN INDICATED BELOW. SEE CALCULATIONS FOR FURTHER DETAILS. WIND LOADS ARE APPLIED TO OVERALL BUILDING ENVELOPE. COMMON WALLS BETWEEN CONNECTED SHAPES ARE NOT SUBJECT TO EXTERNAL WIND LOADS.

Building Code: 2009 Maine Uniform Bldg & Energy Code
Based on Building Code:: 2009 International Building Code
Existing: Building Use:Standard Occupancy Structure, Collateral Gravity: 3.00 psf (Not including bldg wt)
Pack Edge: Building Use:Standard Occupancy Structure, Collateral Gravity: 3.00 psf (Not including bldg wt)
LIVE LOADS AND RAINFALL
Roof Live Load 20.00 psf (Reducible)
Rainfall: 4.00 inches per hour
CONCRETE FOUNDATIONS Compressive Strength (Min.) - f'c: 3000 psi

SNOW LOAD
Ground Snow: 60.00 psf, Flat Roof Snow: 37.80 psf, Design Snow (Sloped): 37.80 psf
Snow Exposure Category (Factor): 1 Fully Exposed (0.90)
Snow Importance: 1.000 Thermal Category (Factor): Heated (1.00)

WIND LOAD
The 'Low Rise' Method is Used
Wind Speed: 100.00 mph, Wind Exposure: C
Basic Wind Pressure: 20.02 psf
Wind Importance Factor: 1.000, FT= Topographic Factor: 1.0000
Wind Enclosure: Enclosed, 0.180
Note: All windows, doors, skylights and other covered openings must be designed for the specified above wind loads

EARTHQUAKE DESIGN DATA
Lateral Force Resisting Systems using Equivalent Force Procedure
Mapped Spectral Response - Ss:31.50 %g, S1:7.70 %g
Seismic Design Category: B (See Bolt Tightening Note Above)
Seismic Snow Load: 7.56 psf
Seismic Importance: 1.000
Soil Profile Type: Stiff soil (D, 4)
Design Spectral Response - Sds: 0.3251, Sd1: 0.1232

Ordinary Steel Moment Frames
Frame Redundancy Factor:1.0000
Framing R-Factor: 3.0000, Frame Seismic Factor (Cs): 0.1084, Design Base Shear = 0.1084 W
Ordinary Steel Concentric Braced Frames
Brace Redundancy Factor:1.0000
Bracing R-Factor: 3.0000, Brace Seismic Factor (Cs): 0.1084, Design Base Shear = 0.1084 W

STATE OF MAINE — CARL W. WALKER No. 5969 — LICENSED PROFESSIONAL ENGINEER
03.14.13

5/14/13 DKR

THE VP ENGINEER'S SEAL APPLIES ONLY TO THE WORK PRODUCT OF VP AND DESIGN AND PERFORMANCE REQUIREMENTS SPECIFIED BY VP. THE VP ENGINEER'S SEAL DOES NOT APPLY TO THE PERFORMANCE OR DESIGN OF ANY OTHER PRODUCT OR COMPONENT FURNISHED BY VP EXCEPT TO ANY DESIGN OR PERFORMANCE REQUIREMENTS SPECIFIED BY VP.

THIS DRAWING, INCLUDING THE INFORMATION HEREON, REMAINS THE PROPERTY OF VP BUILDINGS. IT IS PROVIDED SOLELY FOR ERECTING THE BUILDING DESCRIBED IN THE APPLICABLE PURCHASE ORDER AND SHALL NOT BE MODIFIED, REPRODUCED OR USED FOR ANY OTHER PURPOSE WITHOUT PRIOR WRITTEN APPROVAL OF VP BUILDINGS.

THE GENERAL CONTRACTOR AND/OR ERECTOR IS SOLELY RESPONSIBLE FOR ACCURATE GOOD QUALITY WORKMANSHIP IN ERECTING THIS BUILDING IN ACCORDANCE WITH THIS DRAWING, DETAILS REFERENCED IN THIS DRAWING, ALL APPLICABLE VP BUILDINGS ERECTION GUIDES, AND INDUSTRY STANDARDS PERTAINING TO PROPER ERECTION, INCLUDING THE CORRECT USE OF TEMPORARY BRACING.

CAN/CSA A660 QUASAR Certified

IAS ACCREDITED AC472

COVER SHEET

BUILDER: Patco	VP BUILDINGS VARCO PRUDEN	JOB #: 12-4084
CUSTOMER:		DATE: 3/14/2013
LOCATION: Portland, Maine		DRAWN / CHECK: COOP DC
PROJECT: Pack Edge		PAGE: 1
BUILDERS PO#:	VPC VERSION: 2012.3d	

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FILENAME: Pack Edge addition BO