

VP BUILDINGS

VARCO PRUDEN

A BlueScope Steel Company

DRAWING INDEX

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DRAWING RELEASE HISTORY

TYPE	DATE	DESCRIPTION
Approval Drawings	2/12/2009	FOR APPROVAL- NOT FOR CONSTRUCTION
ANCHOR ROD PLAN REV.# 1	2/13/2009	FOR CONSTRUCTION

GENERAL NOTES

MATERIALS

3 PLATE WELDED SECTIONS  
 COLD FORMED LIGHT GAGE SHAPES  
 BRACE RODS  
 HOT ROLLED MILL SHAPES  
 HOT ROLLED ANGLES  
 HOLLOW STRUCTURAL SECTION (HSS)  
 CLADDING

ASTM DESIGNATION

A629, A672, A1011, A1018  
 A863, A1011  
 A672  
 A36, A629, A672, A688, A709, A992  
 A629, A672, A688, A709, A992  
 A500  
 A863, A792

GRADE 55  
 GRADE 60  
 GRADE 60  
 GRADE 36 KSI UNLESS NOTED  
 GRADE 50  
 GRADE B  
 GRADE 50 OR GRADE 60

A325 & A490 BOLT TIGHTENING REQUIREMENTS

IT IS THE RESPONSIBILITY OF THE ERECTOR TO INSURE PROPER BOLT TIGHTNESS IN ACCORDANCE WITH APPROPRIATE REGULATIONS. THE FOLLOWING CRITERIA IS IN COMPLIANCE WITH THE LATEST SPECIFICATIONS, HOWEVER THE ERECTOR IS RESPONSIBLE TO VERIFY LOCAL AUTHORITY REQUIREMENTS.  
 ALL CONNECTIONS MADE WITH A325 BOLTS MAY BE TIGHTENED TO THE "SNUG TIGHT" CONDITION AS PERMITTED BY THE SPECIFICATION FOR STRUCTURAL JOINTS USING A325 OR A490 BOLTS (2004 ED), UNLESS INDICATED AS "PRE-TENSIONED" ELSEWHERE IN THESE DRAWINGS, OR AS INDICATED BELOW.

PRE-TENSION BOLTS ON PRIMARY FRAMING, BOLTED BRACING, AND STRUT CONNECTIONS IF LOCATED IN IBC SEISMIC PERFORMANCE / DESIGN CATEGORY D, E OR F, UBC ZONE 3 OR 4. SEE CODES AND LOADS NOTES BELOW FOR SEISMIC DESIGN CATEGORY. PRE-TENSION ALL PRIMARY FRAMING CONNECTIONS IN CANADA.

PRE-TENSION BOLTS ON PRIMARY FRAMING, BOLTED BRACING, STRUTS AND CRANE RUNWAY CONNECTIONS IF BUILDING SUPPORTS A CRANE WITH A CAPACITY GREATER THAN 5 TONS.

CONNECTIONS THAT SUPPORT RUNNING MACHINERY AND OTHER SOURCES OF IMPACT OR STRESS REVERSAL MUST BE PRE-TENSIONED.

ALL SLIP CRITICAL CONNECTIONS AS INDICATED IN THESE DRAWINGS WITH -SC DESIGNATION MUST BE PRE-TENSIONED. SC TYPE CONNECTIONS MUST BE FREE OF PAINT, OIL OR OTHER MATERIALS THAT REDUCE THE FRICTION AT CONTACT SURFACES.

CONNECTIONS DESIGNATED AS A325-X OR A490-X SHALL BE INSTALLED WITH BOLT HEAD ON SIDE OF THE THINNEST PLATE BEING CONNECTED.

SECONDARY MEMBERS AND FLANGE BRACE CONNECTIONS ARE ALWAYS "SNUG TIGHTENED", EVEN IF ABOVE CONDITIONS EXIST, UNLESS SPECIFICALLY NOTED OTHERWISE ON DETAILS.  
 WASHERS ARE NOT REQUIRED FOR "SNUG-TIGHT" CONNECTIONS. PRE-TENSIONED A325 OR A490 CONNECTIONS TIGHTENED USING THE TURN-OF-THE-NUT METHOD DO NOT REQUIRE WASHERS. A490 BOLTS MUST ALWAYS BE PRE-TENSIONED.

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.

Building Code: 2006 International Building Code  
 Operations Building: Building Use: Standard Occupancy Structure, Collateral Gravity: 5.00 psf (Not Including bldg wt)  
 Operations Building Lean-to: Building Use: Standard Occupancy Structure, Collateral Gravity: 5.00 psf (Not Including bldg wt)  
 Main: Building Use: Standard Occupancy Structure, Collateral Gravity: 5.00 psf (Not Including bldg wt)  
 LIVE LOADS AND RAINFALL  
 Live Load 20.00 psf (Not Reducible)  
 Rainfall: 10.00 inches per hour  
 Operations Building : Mezzanine 1 @ 12/5/0: FD=60.00 psf, FL=100.00 psf (Not Reducible, Coll. Load:= 5.00 psf, Partition Load:= 10.00 psf)

SNOW LOAD  
 Ground Snow: 5.00 psf, Flat Roof Snow: 3.15 psf  
 Snow Exposure Category (Factor): 1 Fully Exposed (0.90)  
 Snow Importance: 1.000 Thermal Category (Factor): Heated (1.00)

WIND LOAD  
 Wind Speed: 130.00 mph, Wind Exposure: B  
 Basic Wind Pressure: 25.92 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:11.80 %g, S1:5.10 %g  
 Seismic Hazard / Use Group: Group 1  
 Seismic Performance / Design Category: B (See Bolt Tightening Note Above)  
 Seismic Snow Load: 0.00 psf  
 Seismic Importance: 1.000  
 Soil Profile Type: Stiff soil (D, 4)  
 Design Spectral Response - Sds: 0.1259, Sd1: 0.0816

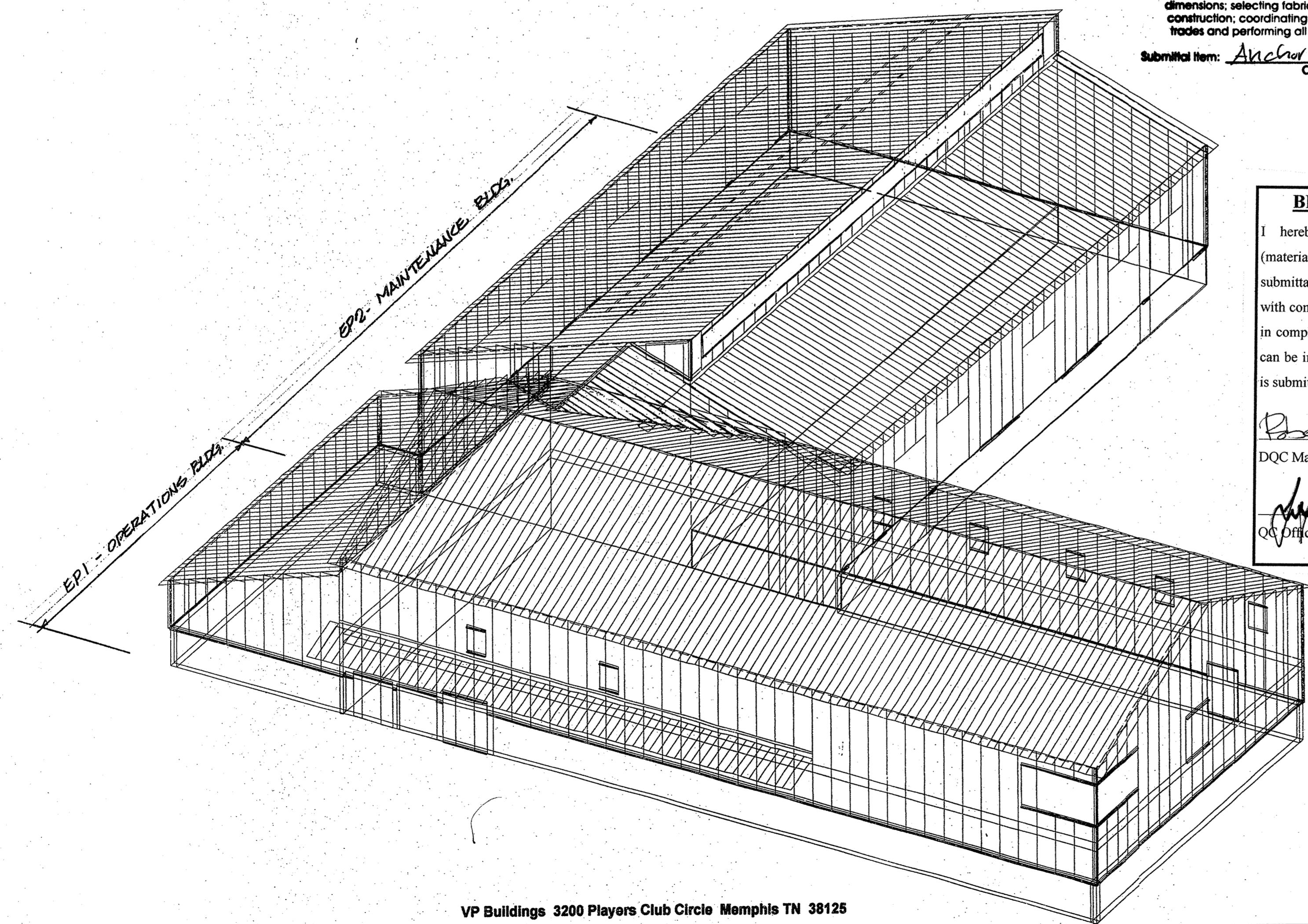
Ordinary Steel Moment Frames  
 Frame Redundancy Factor: 1.0000  
 Framing R-Factor: 3.0000, Frame Seismic Factor (%): 0.0420, Design Base Shear = 0.0420 W  
 Ordinary Steel Concentric Braced Frames  
 Brace Redundancy Factor: 1.0000  
 Bracing R-Factor: 3.0000, Brace Seismic Factor (%): 0.0420, Design Base Shear = 0.0420 W

DAMMON ENGINEERING INC  
 Date: 5.12.09 Project: Senior ROP  
 Reviewed as Noted:  
 Review and Resubmit:  
 Rejected:  
 Other:  
 Corrections or comments made on the shop drawings during this review do not relieve the contractor from compliance with requirements of the drawings and specifications. This check is only for review of the general conformance with the design concept of the project and general compliance with the information given in the contract documents. This contractor is responsible for: confirming and correlating all quantities and dimensions; selecting fabrication processes and techniques of construction; coordinating his or her work with that of all other trades and performing all in a safe and satisfactory manner.  
 Submittal Item: Anchor Rod Plan 2440  
 Comments

BROADMOOR, L.L.C.

I hereby agree that the (equipment) (material) (article) shown and marked in this submittal is that proposed to be incorporated with contract number N69450-05-D-0096, is in compliance with the contract documents, can be installed in the allocated spaces, and is submitted for Government approval.

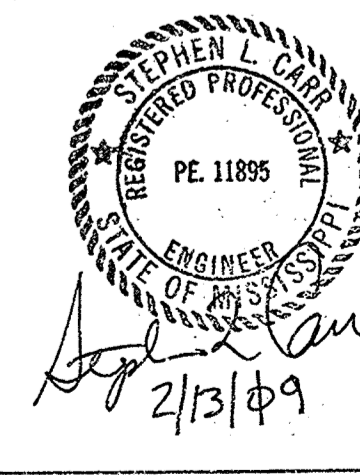
Date: 5.12.09  
 DQC Manager  
 Date: 5/12/09  
 QC Officer



VP Buildings 3200 Players Club Circle Memphis TN 38125

ARMENI HEE  
 SCANNED  
 Date: 5/17/09 Initials: PAC  
 Approval EPI  
 SCANNED  
 Date: 5/13/09 Initials: PAC

FOR CONSTRUCTION



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 CONFORMANCE WITH THIS DRAWING, DETAILS REFERENCED IN THIS DRAWING, ALL APPLICABLE VP BUILDINGS ERECTION GUIDES, AND ALL APPLICABLE INDUSTRY STANDARDS PERTAINING TO PROPER CONSTRUCTION, INCLUDING THE CORRECT USE OF TEMPORARY



COVER SHEET

BUILDER Broadmoor, L.L.C  
 CUSTOMER John F. Stannis Space Center  
 LOCATION Stennis Space Center, Mississippi  
 PROJECT Riverine and Combatant Craft Operations Facility  
 BUILDERS PCF



VP VERSION: 7.1c

JOBNO 08-28914 EP1  
 DATE 2/12/2009  
 DRAWN / CHECK MWM  
 PAGE 1

SLC 3/16/09