



**Fountain.Rev2 AB Reactions**

Date: 6/24/2011  
Time: 03:04 PM  
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**Letter of Certification**

Contact: Name: Lofner Building System  
Address: 3973 E 56th Ave # A9  
City, State: Commerce City, Colorado 80022  
Country: United States

Project: Fountain Equip - Main Bldg rev 2  
Builder: F.O.A.  
City, State: Fountain, Colorado 80817  
Country: United States

This is to certify that the above referenced project has been designed in accordance with the applicable portions of the Building Code specified below. All loading and building design criteria shown below have been specified by contract and applied in accordance with the building code.

Overall Building Description	Overall Slope	Overall Width	Floor Area	Wall Area	Roof Area	Max. Rise	Min. Rise	Min. Roof	Max. Roof	Peak
Structure	Height	Length	(sq. ft.)	(sq. ft.)	(sq. ft.)	(ft.)	(ft.)	Finish	Finish	Height
Single Story Bldg	7.500'	88.00'	4841	5575	19500	19.50'	19.50'	3.000'	3.000'	24.50'

**Loads and Codes - Single Family - Main Bldg**

City: Fountain, State: Colorado, Country: United States  
Building Code: 2009 International Building Code, Edition: 2009  
Building Use: Hazardous / Special Occupancy, Code Form: 07A05 - ASD

**Dead and Collateral Loads**

Collateral Occupancy: 0.00 psf  
Collateral Use: 0.00 psf

**Roof**

Roof Covering: 1 - Sealed, Dead Load: 3.41 psf  
Frame Weight (assumed for system): 2.50 psf

**Live Load**

Live Load: 30.00 psf / Not Redeemable

**Wind Load**

Wind Speed: 100.00 mph  
The Saffir-Simpson Method is Used  
Wind Exposure Category: C (0.022)  
Peak Wind Exposure Factor: 0.922  
Wind Enclosure: Enclosed

**Snow Load**

Ground Snow Load: 27.00 psf  
Flat Roof Snow: 18.71 psf  
Design Snow (Slope): 15.11 psf  
Specified Minimum Roof Snow: 30.00 psf  
Snow Exposure Category (Factor): 1 Fully Exposed Seismic Performance / Design Category: C (0.99)

**Seismic Load**

Seismic Design Category: D (0.0)  
Mapped Spectral Response: \$0.330.00/g  
Mapped Spectral Response: \$1.11.00/g  
Seismic Performance / Design Category: C  
Seismic Importance: 1.25

**Other**

Wind Importance Factor: 1.150  
Topographic Factor: 1.000  
% Snow Load in Seismic: 0.00  
NOT Windborne Debris Region  
Hose Elevation: 40.00  
Primary Zone Step Width: 10.25  
Para / Posture Zone Step Width: 51.5  
Basic Wind Pressure: 23.07 psf

**Other**

Seismic Importance Factor: 1.000  
Seismic Design Category: D (0.0)  
Seismic Performance / Design Category: C  
Seismic Importance: 1.25  
Frame Redundancy Factor: 1.000  
Frame Seismic Factor (C): 0.1478 < W  
Frame Seismic Factor (C): 0.1478 < W  
Design Spectral Response: \$41.6.71  
Design Spectral Response: \$41.6.71

Building design loads and governing building code is provided by the builder and is not validated by Vaco Prodes Buildings, a division of BlueScope Buildings North America, Inc. The Builder is responsible for contacting the local Building Official or project Design Professional to obtain all code and loading information for this specific building use.

The design of this building is in accordance with Vaco Prodes Buildings, a division of BlueScope Buildings North America, Inc. design practices which have been established and used in previous projects and recommendations of the standards listed in the Building Code or here defined.

This certification (DOCS) DOES NOT apply to the design of the foundation or other on site structures or components not supplied by Vaco Prodes Buildings, a division of BlueScope Buildings North America, Inc. nor does it apply to unannotated modifications to building components. Furthermore, it is understood that the Foundation is based upon the general site conditions and is not intended to be used in conjunction with any other drawings for this project. Vaco Prodes Buildings, a division of BlueScope Buildings North America, Inc. DOES NOT provide general review of erection during or after building construction unless specifically agreed to in the contract documents.

The undersigned engineer in responsible charge certifies that this building has been designed in accordance with the contract documents as indicated in this plan.

File: Fountain Equip - Main Bldg rev 2  
Vaco Prodes Buildings is a division of BlueScope Buildings North America, Inc. Version: 10.2

- NOTES:**
- DRILLED PIER NOTATION:  
MIN. PENETRATION INTO BEDROCK  
PIER DIAMETER  
ESTIMATED BOTTOM OF PIER ELEVATION  
TOP OF PIER ELEVATION  
REFER TO TYPICAL DRILLED PIER DETAIL
  - WALL STEP NOTATION:  
5384.97' = TOP OF SLAB ELEVATION  
T.O.W. = TOP OF WALL  
B.O.W. = BOTTOM OF WALL  
< INDICATES ELEVATION APPLIES TO LEFT SIDE OF STEP IN PLAN VIEW  
> INDICATES ELEVATION APPLIES TO RIGHT SIDE OF STEP IN PLAN VIEW  
POSITION INDICATES THE SIDE THAT THE ELEVATION APPLIES. THE TOP ELEVATION APPLIES TO THE TOP SIDE OF THE STEP IN PLAN VIEW AND THE BOTTOM ELEVATION APPLIES TO THE BOTTOM SIDE OF THE STEP IN PLAN VIEW.
  - ALL LONGITUDINAL WALL STEPS SHOWN SHALL HAVE ADDITIONAL REINFORCING AS SHOWN IN DETAIL 4/DL-2.
  - SEE EQUIPMENT AND PIPING DRAWINGS FOR BELOW SLAB PIPING AND ENCASUREMENT CONSTRUCTION REQUIREMENTS.

**1 EQUIPMENT, MAINTENANCE AND STORAGE BUILDING FOUNDATION AND DRILLED PIER PLAN**  
SCALE: 3/8" = 1'-0"

REVISIONS		
NO.	DATE	DESCRIPTION
1	07/28/2011	ISSUED FOR FOUNDATION PERMIT SUBMITTAL TO PRRD (EQUIP., MAINT. AND STO. BLDG)
2	08/24/2011	ISSUED FOR CONSTRUCTION PER PRRD FDTN PERMIT #H3002 (EQUIP., MAINT. AND STO. BLDG)
3	11/23/2011	ISSUED FOR BUILDING PERMIT SUBMITTAL TO PRRD (EQUIP., MAINT. & STOR. BLDG)
4	01/09/2012	ISSUED FOR CONSTRUCTION PER PRRD BUILDING PERMIT #H3002 (EQUIP., MAINT. & STO. BLDG)

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**FOUNDATION AND DRILLED PIER PLAN**  
**HAROLD D. THOMPSON REGIONAL WATER RECLAMATION FACILITY**  
**LOWER FOUNTAIN METROPOLITAN SEWAGE DISPOSAL DISTRICT**

DRAWN	SJK
CHECKED	JP/MG
DATE	2011
PROJECT NO.	20166.415
GMS FILE NO.	2599

**GMS, INC.**  
CONSULTING ENGINEERS  
611 N. WEBER, SUITE 300  
COLORADO SPRINGS, COLORADO 80903

SHEET  
**EM-4**  
OF  
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XREF FILENAME: G:\LMS\201166\415\EM4\EM4.dwg  
BASE DWG: G:\LMS\201166\415\EM4\EM4.dwg  
PLOT STYLE FILE: 10255.ctb  
FILENAME: G:\LMS\201166\415\EM4\EM4.dwg