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October 28, 2020

2KG Contractors Inc
PO Box 1871
Clackamas, OR 97015

Project Name: Delta Park Urban Forestry Maintenance
Buildings: A->51'-4"x265'-8"x17'-0"(RCG,1.51:12)

Attn.: Rick Brockway

Project Location: Portland, OR 97217

NBG Project #: U20H0913A

This Letter of Design Certification ensures that the materials furnished by the metal building supplier are designed in accordance with the information specified to the metal building supplier on the order documents and summarized by the loading information listed below. The Project Engineer of Record (not the metal building supplier) is responsible for verifying that the building code and design loads meet any and all applicable local requirements.

The Professional Engineer whose seal appears on this Letter of Certification is employed by the metal building manufacturer. and does not serve as or represent the Engineer of Record for this project and shall not be construed as such.

DESIGN LOAD CRITERIA:

Structural Loads Applied in General Accordance with: Oregon (OSSC 2014)
MBMA Occupancy Importance Classification: II - Standard Buildings

PROJECT-WIDE LOADING INFORMATION:

Ground Snow Load:	10.0 psf	Snow Exposure Factor, Ce:	1.00	Snow Imp. Factor, Is:	1.00
Roof Live Load:	20.0 psf	Reducible As Per Code.			
Ultimate Design Wind Velocity:	135 mph	Nominal Design Wind Velocity:	105 mph		
***Components & Cladding Pressures:	50 psf/ -62 psf				
Is Roof to meet UL 90 Requirements?:	No	Wind Importance Factor, Iw:	1.00	Wind Exposure:	C
Seismic Criteria:	Ss: 0.963 S1: 0.339	• No ground snow included in seismic calculations.			
Design Sds / Sd1:	0.606/0.598	Analysis Procedure: Equiv. Lat. Force Procedure			
Seis. Imp. Factor, Ie:	1.00	Basic SFRS: Ord. Steel Mom. Frames &			
Seis. Design Category:	D	Ord. Steel Conc.-Br. Frames			
		Site Class:	E		

BUILDING-SPECIFIC LOADING INFORMATION:

Bldg	Roof Dead (psf)*	Collateral Dead		Snow Coefficient		Snow Load (psf)		Wind		Seismic		
		Pri (psf)	Sec (psf)	Ct	Cs	Ps (psf)	**Pm (psf)	Enclosure	GCpi	R	Cs	V (kips)
A	4.0	5.0	5.0	1.2	1.00	8.40	25.00	Part-Encl.	± 0.55	3.25	0.187	42.23

*Primary Structural Not Included

**P_m is based on the minimum roof snow load calculated per building code or the contract-specified roof snow load, whichever is greater. This value, P_m, is only applied in combination with Dead and Collateral Loads. Roof Snow in other loading conditions is determined per the specified Building Code.

***Ultimate Design wind pressures to be used for wall exterior component and cladding materials not provided by Metal Building Supplier

Mezzanine Information:

Floor Dead Load: N/A

Floor Collateral Load: N/A

Floor Live Load: N/A

Crane Information:

No cranes on building.

Roof-Top Unit Information

No roof-top units on building.

The design of structural members supporting roof gravity loads is controlled by the more critical effect of roof live load or roof snow applied in accordance with the governing building code.

DESIGN STANDARDS REFERENCED:

- AISC Specification for Structural Steel Buildings - Steel Construction Manual, 14th Edition, © 2010.
- AISI North-American Spec. for the Design of Cold-Formed Steel Structures, © 2007 w/2010 Supplement.
- IBC codes are designed in accordance with ASCE7-10 Edition.
- MBMA Low Rise Building Systems Manual, Latest Edition.
- AWS Latest Edition of Structural Welding Code.
- No buyout structural components provided on this project.



Professional Seal



Please see review stamp on the attached page

18-236727-DFS-01-CO





MADDEN & BAUGHMAN
ENGINEERING, INC.

- ☒ NO EXCEPTIONS NOTED
☐ IMPLEMENT EXCEPTIONS NOTED
☐ REVISE AND RESUBMIT
☐ REJECTED

THIS CONDITIONAL REVIEW IS LIMITED IN SCOPE AND NOT DETAILED AND IS ONLY FOR CONFORMANCE WITH DESIGN CONCEPT AND GENERAL COMPLIANCE WITH THE INFORMATION GIVEN IN THE CONTRACT DOCUMENTS. THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING QUANTITIES, VERIFYING DIMENSIONS, SELECTING FABRICATION PROCEDURES, CONSTRUCTION TECHNIQUES, COORDINATING AND SAFELY PERFORMING THE WORK. THE ENGINEER OF RECORD HAS NOT REVIEWED AND IS NOT RESPONSIBLE FOR SUBSTITUTIONS TO OR DEVIATIONS FROM THE CONTRACT DOCUMENTS NOT CLEARLY NOTED BY THE CONTRACTOR AND SPECIFICALLY ACCEPTED BY THE ARCHITECT IN WRITING OR BY THE ARCHITECT'S ISSUANCE OF A FIELD ORDER.

BY TB DATE 11/5/2020