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May 12, 2024

STEVENS CONSTRUCTION CO INC
 2181 INNOVATION DRIVE, SUITE 101
 MARION, OH 43302
 Attn.: BEN STEVENS
 Project Location: Marion, OH 43302
 NBG Project #: K24G0187A

Project Name: MARION COUNTY WWTP GARAGE
 Buildings: A->80'-0"x100'-0"x20'-0"(RCG,1.0:12)

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: Ohio (OBC 2017)
 MBMA Occupancy Importance Classification: II - Standard Buildings

PROJECT-WIDE LOADING INFORMATION:

Ground Snow Load:	20.0 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:	115 mph	Nominal Design Wind Velocity:	89 mph		
***Components & Cladding Pressures:	28 psf / -37 psf	Wind Importance Factor, Iw:	1.00	Wind Exposure:	C
Is Roof to meet UL 90 Requirements?:	No	• No ground snow included in seismic calculations.			
Seismic Criteria:	Ss: 0.132 S1: 0.060	Analysis Procedure: Equiv. Lat. Force Procedure			
Design Sds / Sd1:	0.141/0.096	Basic SFRS: Not Detailed for Seismic			
Seis. Imp. Factor, Ie:	1.00				
Seis. Design Category:	B	Site Class:	D		

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	3.5	6.0	6.0	1.0	1.00	14.00	20.00	Enclosed	± 0.18	3.00	0.047	5.1

*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.

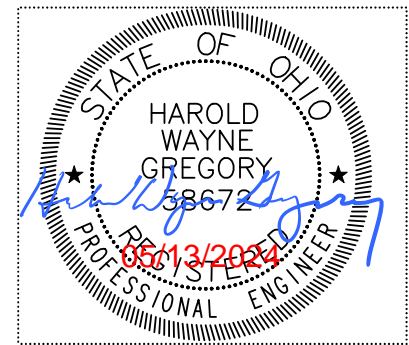
Main Building Information

Construction (by others) is independent with no structural attachment to KBS structure.

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 Specification for the Design of Cold-Formed Steel Structures, © 2012 Edition.
- 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

