

ALL MATERIAL AND WORKSMANSHIP SHALL CONFORM WITH THE REQUIREMENTS OF THE LATEST REVISION OF THE INTERNATIONAL BUILDING CODE 2018 AND THE 2020 NEW YORK STATE BUILDING CODE. DESIGN ACCORDING TO AISI 500-S80/S116, NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS, AND WITH ANSIS/ AISE 7-16.

DATA* NO LOADS OTHER THAN THOSE GIVEN UNDER "DESIGN DATA" NOTES SHALL BE IMPOSED ON THE "STRUCTURE".

3. SPECIFIC NOTES AND DETAILS SHOWN ON THE DRAWINGS SHALL TAKE PRECEDENCE OVER THE BUILDING MANUAL SUPPLIED.

4. THE BUILDING, INCLUDING THE FOUNDATION, MUST BE CONSTRUCTED IN STRICT ACCORDANCE WITH THE DRAWING AND ERECTION INSTRUCTIONS. ANY DEVIATION, UNLESS APPROVED BY US IN WRITING, SHALL NULLIFY OUR CERTIFICATE AND SEAL AND SHALL BE THE SOLE RESPONSIBILITY OF THE ERECTOR.

5. A PROFESSIONAL ENGINEER SHOULD BE RETAINED WHERE SITE INSPECTIONS ARE WARRANTED.

6. NO ARCH PANEL MAY BE CUT OR MODIFIED UNLESS IT IS TO ACCOMMODATE AN ACCESSORY PROVIDED BY THE MANUFACTURER IN ACCORDANCE WITH ITS INSTRUCTIONS AND/OR THE DRAWING.

7. MINIMUM SEPARATION FROM THIS BUILDING TO ANY TALLER BUILDING MUST BE THE SMALLER OF 20 FEET AND 6 TIMES THE HEIGHT DIFFERENCE.

AND NOT FOR CONSTRUCTION.

FOUNDATION NOTES

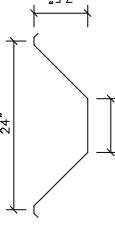
NOTE: THE FOUNDATION ON THE DRAWING SPECIFIES THE MINIMUM REQUIREMENTS. LOCAL BUILDING CODE AND SITE CONDITIONS MAY REQUIRE A STRONGER FOUNDATION, WHICH MUST BE DESIGNED BY A LOCAL ENGINEER.

1. THE FOUNDATION SHALL BE FOUNDED ON NATURAL UNDISTURBED SOIL CAPABLE OF SAFELY SUSTAINING 1500 psf. THIS SHALL BE DESIGNED TO FULLY RESIST ALL ROTATION AT THE BASE OF THE ARCH.
2. SLAB ON GRADE SHALL BE PLACED ON WELL COMPACTED SOIL CAPABLE OF SUSTAINING 1500 psf WITHOUT

DESIGN DATA (MATERIALS)

1. CONCRETE $f'_c = 2500$ PSI @ 28 DAYS, ACI
2. REINFORCING STEEL GRADE 40, $F_y = 40$ KSI, ASTM A615
3. W.W.R. $F_y = 65$ KSI, ASTM A1064.
4. W.W.R. $6 \times 6 - W14 \times W14$

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BOLTS: SAE GRADE 2 OR A570 A307
Arch A: 10 Arches
ROOF STEEL THICKNESS = 0.03 in.
Arch B: 10 Arches
ROOF STEEL THICKNESS = 0.04 in.

55% ALUMINUM-ZINC ALLOY (HOT DIP COATING)
ASTM A792 GRADE 50A
50 KSI MINIMUM YIELD
65 KSI MINIMUM TENSILE
HSS SECTIONS SHALL CONFORM TO:

ASTM A500 GRADE B ($F_y = 46 \text{ ksi}$)
W SECTIONS SHALL CONFORM TO:
ASTM A992 GRADE 50 ($F_y = 50 \text{ ksi}$)
OTHER SECTIONS SHALL CONFORM TO:
ASTM A36 ($F_y = 36 \text{ ksi}$)
ARCH DESIGN DATA IN ACCORDANCE WITH AISI/ASCE 7-16;

$\rho_{\text{r}} = \text{ROOF LIVE LOAD (PSF)} = 20$
 $\rho_{\text{g}} = \text{GROUND SNOW LOAD (PSF)} = 40$
 $C_{\text{e}} = \text{EXPOSURE FACTOR} = 1.0$
 $C_{\text{t}} = \text{THERMAL FACTOR} = 1.0$
 $\text{IMPORTANCE FACTOR (SNOW)} = 0.8$
 $\text{CATEGORY 1/AGRICULTURAL BUILDINGS}$
 $\rho_{\text{w}} = \text{COMPONENT WIND PRESSURE (PSF)} = +/- 19$

V : BASIC WIND SPEED (MPH) = 100
 KX: VELOCITY PRESSURE EXPOSURE = 0.85
 QCP: PRODUCT OF INTERNAL PRESSURE COEFFICIENT
 AND GUST-EFFECT FACTOR = +/− 0.18
 KZ: WIND DIRECTIONALITY FACTOR = 0.85
 ZT: TOPOGRAPHIC FACTOR = 1.0

Ke: Ground Elevation Factor = 1.00
WIND EXPOSURE CATEGORY = C
SEISMIC DESIGN CATEGORY = B

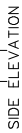
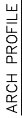
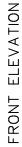
LEGAL NOTE

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WARNING: DO NOT REMOVE OR REDUCE THE CONCRETE FLOOR OR THE REINFORCING STEEL, AND/OR RAISE THE TOPS OF THE FOOTERS ABOVE THE FLOOR OR BUILDING FAILURE MAY RESULT

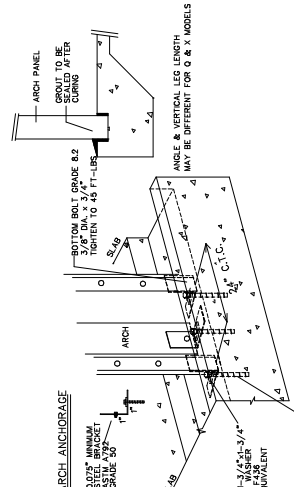
Minimum Concrete Cover:

(a) Concrete Cast against earth:

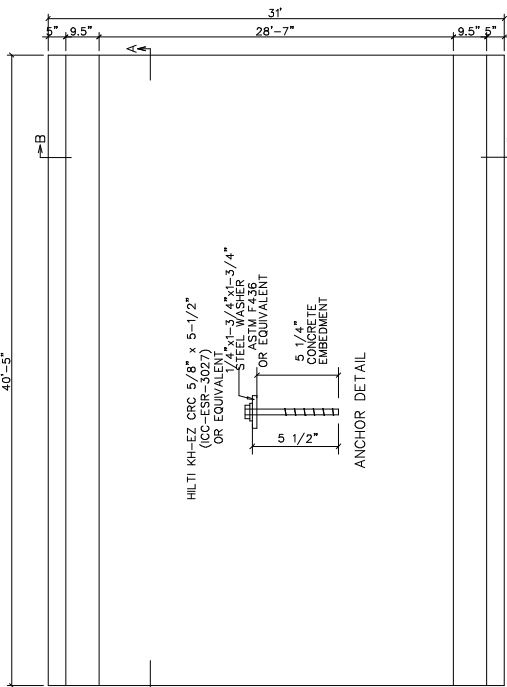
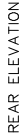
(b) Concrete exposed to earth or No. 6 through No. 10 bars:

(c) Concrete not exposed to earth

(c) Complete not exposed



1. FIRST ANCHOR BOLT LOCATION FROM END OF FOUNDATION;
2.2' WITH NO WALL OR MANUFACTURER'S CLADED ENDWALL
2.1' WITH MANUFACTURER'S CORRUGATED ENDWALL
3. ARCHES AND MANUFACTURER'S ENDWALLS MUST BE
ROUTED INTO FOUNDATION ON BOTH SIDES OF PANELS.



HILTI KH-EZ CRC 5/8" x 5-1/2"
(ICC-ESR-3027)

OR EQUIVALENT
1/4" x 1-3/4" x 1-3/4"
STEEL WASHER

ASTM F 436
OR EQUIVALENT

5 1/4"

CONCRETE EMBEDMENT

ANCHOR DETAIL

FOUNDATION PLAN