NOTES FOR REACTIONS

BUILDING REACTIONS ARE BASED ON
THE FOLLOWING BUILDING DATA:

WIDTH (FT)	= 28.67
LENGTH (FT)	= 28.17
EAVE HEIGHT (FT)	= 11.17 / 12.36
ROOF SLOPE (rise/12)	= 0.4992:12 /
DEAD LOAD (psf)	= 2.800
COLLATERAL LOAD (psf)	= 1
ROOF LIVE LOAD (psf)	= 20.00
FRAME LIVE LOAD (psf)	= 15.93
ROOF SNOW LOAD (psf)	= 7
GROUND SNOW LOAD (psf)	= 10.00
WIND SPEED (MPH)	= 115
WIND CODE	= IBC 18
EXPOSURE	= C
CLOSED/OPEN	= Closed
IMPORTANCE - WIND	= 1.00
IMPORTANCE - SEISMIC	= 1.00
SEISMIC ZONE	= C

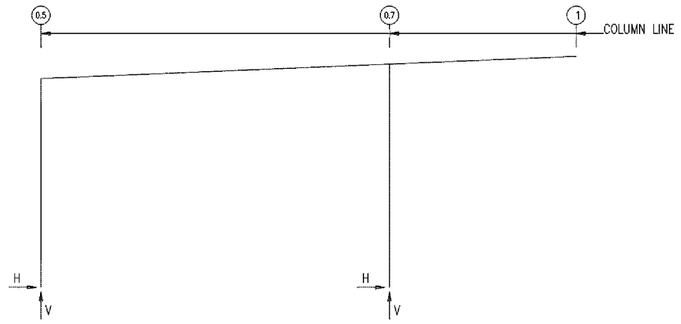
REACTION KEY:

WIND Left/Right 1 = (with +GCpi Internal Pressure)
WIND Left/Right 2 = (with -GCpi Internal Pressure)
Wind_Long 1 = Wind Load Case B at Left EW
Wind_Long 2 = Wind Load Case B at Right EW
MIN_SNOW = Minimum Snow (Pm) per code
E#UNB_SL_L = Endwall Unbalanced Snow Left
E#UNB_SL_R = Endwall Unbalanced Snow Right
F#UNB_SL_L = Rigid Frame Unbalanced Snow Left
F#UNB_SL_R = Rigid Frame Unbalanced Snow Right

GENERAL NOTES

1. THE REACTIONS PROVIDED ARE BASED ON THE ORDER DOCUMENTS AT THE TIME OF MAILING. ANY CHANGES TO BUILDING LOADS OR DIMENSIONS MAY CHANGE THE REACTIONS. THE REACTIONS WILL BE SUPERSEDED AND VOIDED BY ANY FUTURE MAILING.
2. REACTIONS ARE PROVIDED AS UN-FACTORED FOR EACH LOAD GROUP APPLIED TO THE COLUMN. THE FOUNDATION ENGINEER WILL APPLY THE APPROPRIATE LOAD FACTORS AND COMBINE THE REACTIONS IN ACCORDANCE WITH THE BUILDING CODE AND DESIGN SPECIFICATIONS TO DETERMINE BEARING PRESSURES AND CONCRETE DESIGN. THE FACTORS APPLIED TO LOAD GROUPS FOR THE STEEL COLUMN DESIGN MAY BE DIFFERENT THAN THE FACTORS USED IN THE FOUNDATION DESIGN.
3. THE MANUFACTURER DOES NOT PROVIDE "MAXIMUM" LOAD COMBINATION REACTIONS. HOWEVER, THE INDIVIDUAL LOAD REACTIONS PROVIDED MAY BE USED BY THE FOUNDATION ENGINEER TO DETERMINE THE APPLICABLE LOAD COMBINATIONS FOR HIS/HER DESIGN PROCEDURES AND ALLOW FOR AN ECONOMICAL FOUNDATION DESIGN
4. THE METAL BUILDING MANUFACTURER IS RESPONSIBLE FOR THE DESIGN OF THE ANCHOR BOLT DIAMETER ONLY TO PERMIT THE TRANSFER OF FORCES BETWEEN THE BASE PLATE AND THE ANCHOR BOLT IN SHEAR, BEARING AND TENSION, BUT IS NOT RESPONSIBLE FOR THE ANCHOR BOLT EMBEDMENT FOR TRANSFER OF FORCES TO THE FOUNDATION. THE METAL BUILDING MANUFACTURER DOES NOT DESIGN AND IS NOT RESPONSIBLE FOR THE DESIGN, MATERIAL AND CONSTRUCTION OF THE FOUNDATION EMBEDMENTS. THE END USE CUSTOMER SHOULD ASSURE HIMSELF THAT ADEQUATE PROVISIONS ARE MADE IN THE FOUNDATION DESIGN FOR LOADS IMPOSED BY COLUMN REACTIONS OF THE BUILDING, OTHER IMPOSED LOADS, AND BEARING CAPACITY OF THE SOIL AND OTHER CONDITIONS OF THE BUILDING SITE. IT IS RECOMMENDED THAT THE ANCHORAGE AND FOUNDATION OF THE BUILDING BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER EXPERIENCED IN THE DESIGN OF SUCH STRUCTURES, (SECTION A3 MBMA 2006 METAL BUILDING SYSTEMS MANUAL)
5. BOTTOM OF ALL BASE PLATES ARE AT THE SAME ELEVATION. (UNLESS NOTED)
6. ANCHOR RODS ARE ASTM F1554 GRADE 36 MATERIAL UNLESS NOTED OTHERWISE.

FRAME LINES: B B.3



RIGID FRAME: ANCHOR BOLTS & BASE PLATES

Frm Line	Col Line	Anc. Bolt Qty	Anc. Bolt Dia	Base Plate (in) Width	Base Plate (in) Length	Thick	Grout (in)
B*	0.5	4	0.750	6.000	8.500	0.375	0.0
B*	0.7	4	0.625	6.000	8.000	0.375	0.0

B* Frame lines: B B.3

RIGID FRAME: BASIC COLUMN REACTIONS (k)

Frame Line	Column Line	Dead Horiz	Dead Vert	Collateral Horiz	Collateral Vert	Live Horiz	Live Vert	Snow Horiz	Snow Vert	Snow_Drift Horiz	Snow_Drift Vert	Wind_Left1 Horiz	Wind_Left1 Vert
B*	0.5	0.0	0.5	0.0	0.1	0.1	1.8	0.0	0.8	0.0	-0.1	-0.6	-2.7
B*	0.7	0.0	1.1	0.0	0.3	0.0	4.2	0.0	1.8	0.0	2.8	0.0	-6.3

Frame Line	Column Line	Wind_Right1 Horiz	Wind_Right1 Vert	Wind_Left2 Horiz	Wind_Left2 Vert	Wind_Right2 Horiz	Wind_Right2 Vert	Wind_Long1 Horiz	Wind_Long1 Vert	Wind_Long2 Horiz	Wind_Long2 Vert	MIN_SNOW Horiz	MIN_SNOW Vert
B*	0.5	0.8	-1.7	-1.1	-1.7	0.2	-0.7	1.0	-2.7	1.0	-1.7	0.0	1.1
B*	0.7	0.0	-3.8	0.0	-4.0	0.0	-1.6	0.0	-6.3	0.0	-3.8	0.0	2.6

Frame Line	Column Line	F1PAT_SL_1 Horiz	F1PAT_SL_1 Vert	F1PAT_SL_2 Horiz	F1PAT_SL_2 Vert	F1PAT_LL_3 Horiz	F1PAT_LL_3 Vert	F1PAT_LL_4 Horiz	F1PAT_LL_4 Vert
B*	0.5	0.0	0.4	0.0	0.0	0.1	1.8	0.0	-0.1
B*	0.7	0.0	0.6	0.0	0.3	0.0	2.9	0.0	1.3

B* Frame lines: B B.3

ENDWALL COLUMN: BASIC COLUMN REACTIONS (k)

Frm Line	Col Line	Wind Press Horz	Wind Suct Horz	-MIN_SNOW- Horz	-MIN_SNOW- Vert	E1PAT_SL_1 Horz	E1PAT_SL_1 Vert	E1PAT_SL_2 Horz	E1PAT_SL_2 Vert
B	0.7	-1.5	1.7	0.0	2.8	0.0	0.7	0.0	0.3

Frm Line	Col Line	Wind Press Horz	Wind Suct Horz	-MIN_SNOW- Horz	-MIN_SNOW- Vert	E2PAT_SL_1 Horz	E2PAT_SL_1 Vert	E2PAT_SL_2 Horz	E2PAT_SL_2 Vert
B.3	0.7	-1.5	1.7	0.0	2.8	0.0	0.3	0.0	0.7

ENDWALL COLUMN: ANCHOR BOLTS & BASE PLATES

Frm Line	Col Line	Anc. Bolt Qty	Anc. Bolt Dia	Base Plate (in) Width	Base Plate (in) Length	Thick	Grout (in)
B	0.7	4	0.625	6.000	8.000	0.375	0.0
B.3	0.7	4	0.625	6.000	8.000	0.375	0.0

ANCHOR BOLT SUMMARY

	Qty	Locate	Dia (in)	Type	Proj (in)
○	8	Jamb	5/8"	F1554	2.00
○	8	Endwall	5/8"	F1554	2.00
⊠	8	Frame	3/4	F1554	2.50
○	4	Jamb	5/8	F1554	1.50

BUILDING BRACING REACTIONS

Wall Line	Col Line	Reactions in plane of wall ± Reactions(k) Wind Horz	Wind Vert	Seismic Horz	Seismic Vert	Panel_Shear (lb/ft) Wind	Panel_Shear (lb/ft) Seis	Note
L_EW	B							(h)
F_SW	1							(f)
R_EW	B.3							(h)
B_SW	0.5	Torsional Bracing Used						

(f)Bracing loads are applied to adjacent building
(h)Rigid frame at endwall

BUILDING-B

Revision	Date	Description	Ck'd
0	05/22/20	FOR ERECTOR INSTALLATION	BNS PNR

MESCO Building Solutions
5244 Bear Creek Court Irving, TX 75061
Voice 214-687-9999 Fax 214-687-9737

Project Name & Location:
CC FIVE FORKS SC
CROSS DEVELOPMENT
1215 E BUTLER RD
GREENVILLE,SC 29607-5911 US

Customer:
CROSS DEVELOPMENT LLC
4336 MARSH RIDGE RD
CARROLLTON,TX 75010-4447 US
MEAGAN VIEREN

Drawing Status:
☐ Preliminary (Not For Construction)
☐ For Approval (Not For Construction)
☐ For Construction Permit
☒ For Erector Installation

Scale: NOT TO SCALE
Drawn by: BNS 05/22/20
Checked by: PNR 05/22/20
Project Engineer: SH
Job Number: 17-B-60327
Sheet Number: F3

The engineer whose seal appears hereon is an employee for the manufacturer for the materials described herein. Said seal or certification is limited to the products designed and manufactured by manufacturer only. The undersigned engineer is not the overall engineer of record for this project.

Drawing has been digitally signed.

Jason Speegle
May 26, 2020

SOUTH CAROLINA PROFESSIONAL ENGINEER NO. 26802 JASON SPEEGLE