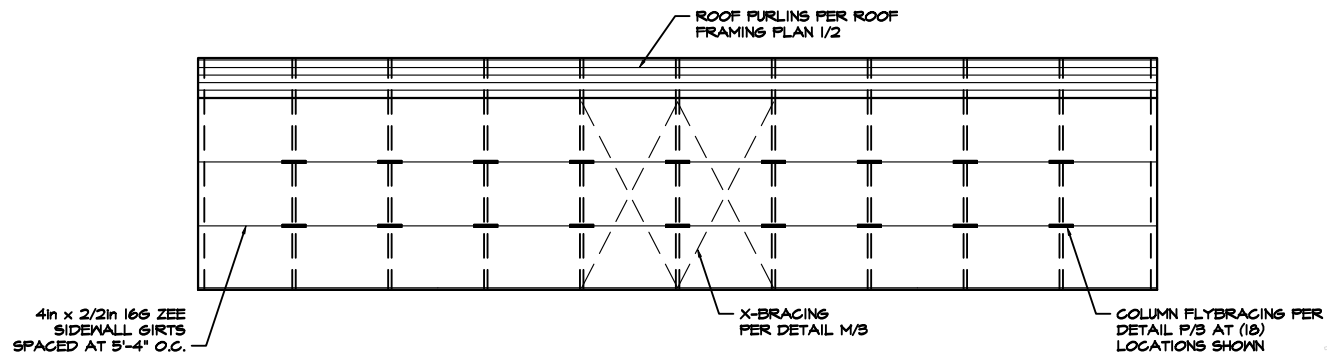
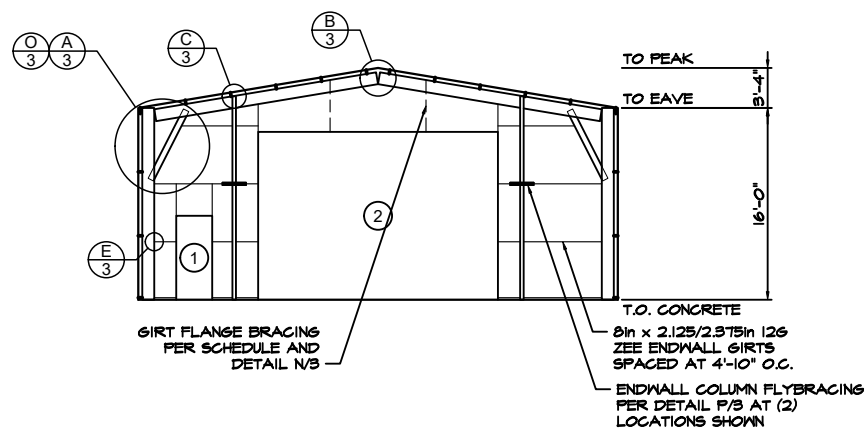


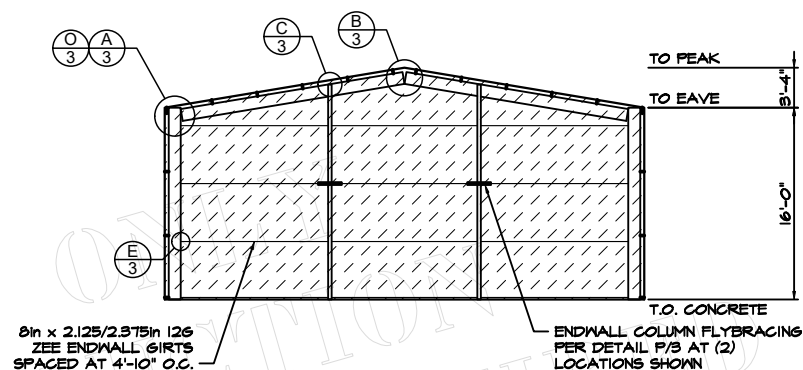
2 SIDEWALL 'A' EXTERIOR ELEVATION
1 SCALE: 1/8" = 1'-0"



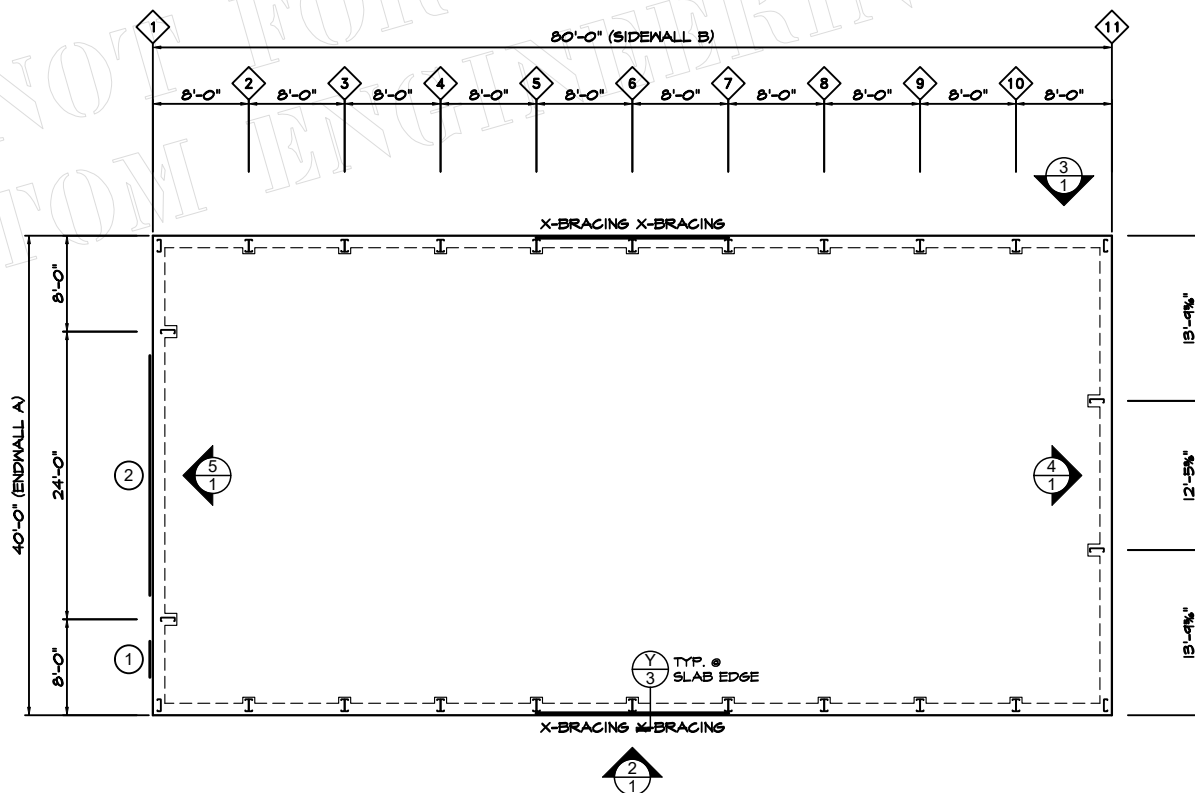
3 SIDEWALL 'B' EXTERIOR ELEVATION
1 SCALE: 1/8" = 1'-0"



5 ENDWALL 'A' INTERIOR ELEVATION
1 SCALE: 1/8" = 1'-0" FRAME #I



4 ENDWALL 'B' INTERIOR ELEVATION
1 SCALE: 1/8" = 1'-0" FRAME #II



1 FOUNDATION PLAN
1 SCALE: 1/8" = 1'-0"

NOTE: USE 1/2" X 3" DEWALT 'SCREW-BOLT+' ANCHOR IN 3 1/2" DEEP HOLES AT ANCHOR LOCATIONS PER BASE DETAIL F/3, INSTALLED PER ICC REPORT ESR-3889, SECTION 4.3.

NOTE: SEE "TYP. FRAME CROSS-SECTION" DETAIL ON SHEET 3 FOR SPECIFIC FRAME DETAIL INFORMATION.

NOTE: EXCEPT AT DOOR OPENINGS, INSTALL L4x2x1/8 ANGLE TO FOUNDATION (FOR ATTACHMENT OF BOTTOM OF WALL SIDING) WITH 1/4in X 1 1/4in NAIL DRIVE MASONRY ANCHOR ANCHORS AT 48" O.C. (6" MAX. FROM ANY END).

IMPORTANT: IN ADDITION TO THESE PLANS (WHICH ALWAYS TAKE PRECEDENCE), YOU SHOULD HAVE THE FOLLOWING FROM ACT BUILDING SYSTEMS:

- CONSTRUCTION PACKAGE
- INSTALLATION MANUALS
- CONSTRUCTION VIDEOS

PLEASE CONTACT YOUR SALES REP IF YOU HAVE NOT RECEIVED THESE PRIOR TO STARTING CONSTRUCTION.

PROJECT DESIGN CRITERIA

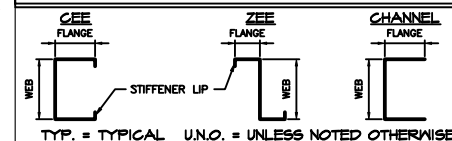
GOVERNING CODE: IBC 2021
RISK CATEGORY: II
ROOF DEAD LOAD: 3 psf
ROOF COLLATERAL LOAD: 4 psf
GROUND SNOW LOAD: 55 psf
ROOF SNOW LOAD: 46.2 psf
ROOF LIVE LOAD: 20 psf (REDUCIBLE)
WIND ENCLOSURE: PARTIALLY ENCLOSED
WIND SPEED: 106 mph
WIND EXPOSURE: C
Ss: 0.083 Sds: 0.084
Sl: 0.046 Sdl: 0.074
SEISMIC DESIGN CATEGORY: B
R transverse: 3 R longitudinal: 3
SOIL BEARING PRESSURE: 1500 psf

WIND DESIGN OF LATERAL FORCE-RESISTING SYSTEMS IS BASED ON THE DIRECTIONAL DESIGN PROCEDURE OF ASCE 7-16, CHAPTER 27

SEISMIC DESIGN OF LATERAL FORCE-RESISTING SYSTEMS ARE AS FOLLOWS:

- TRANSVERSE: ORDINARY STEEL MOMENT FRAME (SEISMIC DESIGN IS BASED ON ASCE 07-16, SECTIONS 12.1 - 12.13)
- LONGITUDINAL: ORDINARY STEEL BRACED FRAME (SEISMIC DESIGN IS PERFORMED USING THE SIMPLIFIED DESIGN PROCEDURE (ASCE 07-16, SECTION 12.14).

COMPONENT DIAGRAM



WALL OPENING SCHEDULE

DOOR	WIDTH	HEIGHT	TYPE	HEADER GIRT	JAMBS
1	8'-0"	7'-0"	PERSONNEL DOOR	SINGLE	CHN8X 2X12
2	20'-0"	14'-0"	PERMANENT FRAMED OPENING	SEE NOTE #4	C8X9.5 X12

NOTES:

- JAMB MEMBERS SHOWN AS "CHN" ARE CHANNEL MEMBERS (WITHOUT STIFFENER LIPS) AND THOSE SHOWN AS "C" ARE CEE MEMBERS. FIRST NUMBER IS WEB DEPTH IN INCHES, SECOND NUMBER IS FLANGE WIDTH IN INCHES, AND THIRD NUMBER IS MATERIAL THICKNESS (GAUGE).
- SEE DETAILS J/3 AND K/3 FOR OPENING FRAMING INFORMATION.
- SIZE OF HEADER GIRT MEMBER TO BE SAME AS SIDEWALL OR ENDWALL GIRT, AS APPROPRIATE, PER ELEVATIONS. AT WINDOWS, INSTALL HEADER GIRT SPECIFIED ABOVE AND BELOW WINDOWS, U.N.O.
- AT OPENINGS NOTED, INSTEAD OF ATTACHING DOOR JAMBS TO HEADER GIRT PER DETAIL L/3 ATTACH DOOR JAMBS TO UNDERSIDE OF ENDWALL RAFTER PER DETAIL L2/3.
- ALL OPENINGS AND ACCESSORIES SHALL BE CAPABLE OF SUPPORTING ALL WIND PRESSURES PERPENDICULAR TO THE SURFACE (GENERATED BY WINDS AT THE SPEED AND EXPOSURE INDICATED ABOVE) BY SPANNING BETWEEN THE JAMBS.

DEFLECTION LIMITS

FURLINS:	L/150 (STD)
GIRTS:	L/90 (STD)
EW WIND COLUMNS:	L/120 (STD)
WALL PANEL:	L/60 (STD)

PRELIMINARY
ONLY NOT FOR
CONSTRUCTION

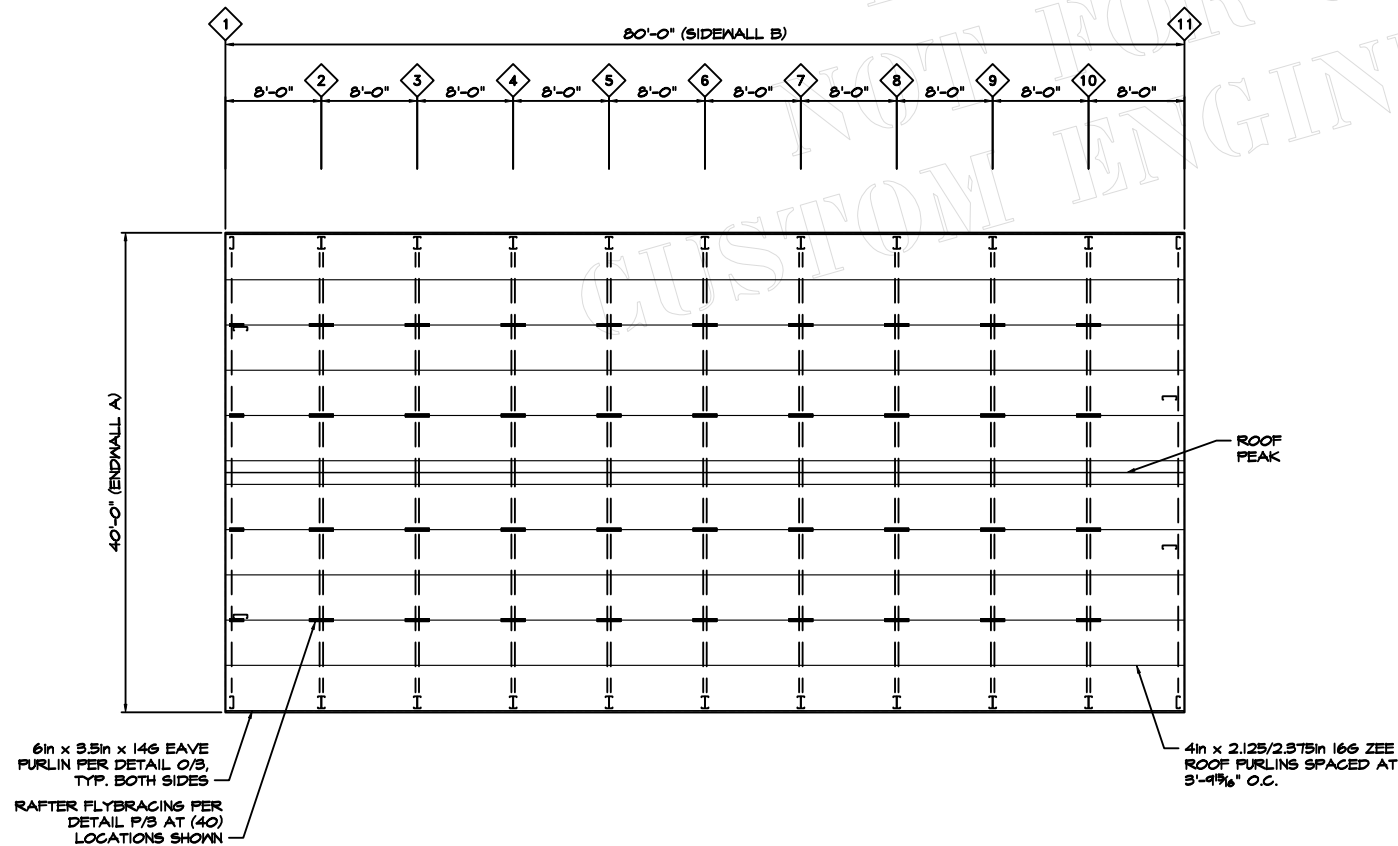


ACTBUILDING
SYSTEMS

DISTRIBUTOR: Toro Steel Buildings
JOB NAME: 40x80 Equipment Shed
JOB ADDRESS: 801 Broadway Avenue NW
Grand Rapids, MI 49504

DRAWN
CHECKED
DATE: 8/22/2025
JOB NO.: VNUJ1015060717
SHEET
1 OF 2

DISCLAIMER: THIS BUILDING AS DESIGNED DOES NOT PASS REQUIRED ENGINEERING CHECKS. BUILDING MAY NOT BE ABLE TO BE CONSTRUCTED AS PRESENTED ON THESE PRELIMINARY PLANS. CUSTOM ENGINEERING WILL BE REQUIRED.



1 ROOF FRAMING PLAN
2
SCALE: 1/8" = 1'-0"

PRELIMINARY
ONLY NOT FOR
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**ACTBUILDING**
SYSTEMS®

DISTRIBUTOR:
Toro Steel Buildings
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40x80 Equipment Shed
JOB ADDRESS:
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Grand Rapids, MI 49504

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DATE
8/22/2025

JOB NO.
VNUJ1015060717

SHEET
2
OF
2