NUCOR
BUILDING SYSTEMS
A DIVISION OF NUCOR CORPORATION

PROJECT NUMBER:	U1R-21181
PROJECT NAME:	Project Zebra
PROJECT LOCATION:	Lynden, WA COUNTY: Whatcom
CUSTOMER:	H&H Steel Erectors Lake Stevens, WA

MBMA MEMBER
IAS ACCREDITED AC472

PROJECT LOADS

DESIGN CODE: IBC 2018 BUILDING END USE: 3B
ROOF LIVE LOAD: 20 PSF MBMA OCC. CLASS:
NOT REDUCIBLE PER CODE II - Standard Buildings
GROUND SNOW LOAD: 25 PSF SNOW EXP. FACTOR, Ce: 1
SNOW IMPORTANCE FACTOR, Is: 1
WIND: 110 WIND IMPORTANCE FACTOR, Iw: 1
EXPOSURE: C WITHIN HURRICANE COASTLINE ☐ YES ☒ NO
UL 90 ☐ YES ☒ NO RAIN INTENSITY (in/hr) 4

SEISMIC INFORMATION Ss:0.943, S1:0.331
Design Sds/Sd1: Site Class: D
Seismic Imp. Factor Ie: 1 Seismic Design Category:
Analysis Procedure: Equivalent Lateral Force Method
Basic SFRS:

NOTES:
1) COLLATERAL DEAD LOADS, UNLESS OTHERWISE NOTED, ARE ASSUMED TO BE UNIFORMLY DISTRIBUTED. WHEN SUSPENDED SPRINKLER SYSTEMS, LIGHTING, HVAC EQUIPMENT, CEILINGS, ETC., ARE SUSPENDED FROM ROOF MEMBERS, CONSULT THE M.B.S. IF THESE CONCENTRATED LOADS EXCEED 200 POUNDS, OR IF INDIVIDUAL MEMBERS ARE LOADED SIGNIFICANTLY MORE THAN OTHERS.

2) THE DESIGN OF STRUCTURAL MEMBERS SUPPORTING GRAVITY LOADS IS CONTROLLED BY THE MORE CRITICAL EFFECT OF ROOF LIVE LOAD OR ROOF SNOW LOAD, AS DETERMINED BY THE APPLICABLE CODE.

	BUILDING Main	BUILDING Loading Dock	BUILDING High Bay
ROOF DEAD (PSF):	5	5	5.9
PRI. COL. (PSF):	5	5	5
SEC. COL. (PSF):	5	5	5
SNOW Ct:	1.2	1.2	1.2
SNOW Cs:			
ROOF SNOW (PSF):	25	25	25
WIND ENCLOSURE:	Enclosed	Enclosed	Enclosed
GCpi:			
SEISMIC R:			
SEISMIC Cs:			
BASE SHEAR (KIPS):			

GENERAL NOTES

1. MATERIALS

MATERIALS	ASTM DESCRPTION	MATERIALS	ASTM DESCRPTION
STRUCTURAL STEEL PLATE	A529 / A572 / A1011	ROOF AND WALL SHEETING	A653 / A792
HOT ROLLED MILL SHAPES	A36 / A529 / A572 / A500	BOLTS	A307 / A325 / A490
HSS ROUND	A500	CABLE	A475
HSS RECTANGULAR	A500	RODS	A529 / A572
COLD FORM SHAPES	A653 / A1011		

2. STRUCTURAL PRIMER NOTES:
SHOP COAT PRIMER IS INTENDED TO PROTECT THE STEEL FRAMING FOR A SHORT PERIOD OF TIME. STORAGE IN EXTREME COLD TEMPERATURES OR WINTER SNOW CONDITIONS, INCLUDING TRANSPORTATION ON SALTED OR CHEMICALLY TREATED ROADS WILL ADVERSELY AFFECT THE DURABILITY AND LONGEVITY OF THE PRIMER. THE COAT OF SHOP PRIMER DOES NOT PROVIDE THE UNIFORMITY OF APPEARANCE, OR THE DURABILITY AND CORROSION RESISTANCE OF A FIELD APPLIED FINISH COAT OF PAINT OVER A SHOP PRIMER. MINOR ABRASIONS TO THE SHOP COAT PRIMER CAUSED BY HANDLING, LOADING, SHIPPING, UNLOADING AND ERECTION ARE UNAVOIDABLE AND ARE NOT THE RESPONSIBILITY OF THE METAL BUILDING MANUFACTURER. METAL BUILDING MANUFACTURER IS NOT RESPONSIBLE FOR THE DETERIORATION OF THE PRIMER OR CORROSION THAT MAY RESULT FROM ATMOSPHERIC AND ENVIRONMENTAL CONDITIONS NOR THE COMPATIBILITY OF THE PRIMER TO ANY FIELD APPLIED COATING.

3. BUILDING ERECTION NOTES:
THE GENERAL CONTRACTOR AND/OR ERECTOR IS RESPONSIBLE TO SAFELY AND PROPERLY ERECT THE METAL BUILDING SYSTEM IN CONFORMANCE WITH THESE DRAWINGS, OSHA REQUIREMENTS AND EITHER MBMA OR CSA S16 STANDARDS PERTAINING TO PROPER ERECTION. TEMPORARY SUPPORTS SUCH AS GUYS, BRACES, FALSEWORK, CRIBBING OR OTHER ELEMENTS FOR ERECTION ARE TO BE DETERMINED, FURNISHED AND INSTALLED BY THE ERECTOR.THESE SUPPORTS MUST SECURE THE STEEL FRAMING, OR PARTLY ASSEMBLED STEEL FRAMING, AGAINST LOADS COMPARABLE IN INTENSITY TO THOSE FOR WHICH THE STRUCTURE WAS DESIGNED IN ADDITION TO LOADS RESULTING FROM THE ERECTION OPERATION. SECONDARY WALL AND ROOF-FRAMING (PURLINS, GIRTS AND/OR JOIST) ARE NOT DESIGNED TO FUNCTION AS A WORKING PLATFORM OR TO PROVIDE AS AN ANCHORAGE POINT FOR A FALL ARREST /SAFETY TIE OFF.\P

4. A325 & A490 BOLT TIGHTENING REQUIREMENTS:
IT IS THE RESPONSIBILITY OF THE ERECTOR TO ENSURE PROPER BOLT TIGHTNESS IN ACCORDANCE WITH APPLICABLE REGULATIONS. FOR PROJECTS IN THE UNITED STATES SEE THE RCSC SPECIFICATION FOR STRUCTURAL JOINTS USING A325 OR A490 BOLTS OR FOR PROJECTS IN CANADA, SEE THE CAN/CSA S16 LIMIT STATES DESIGN OF STEEL STRUCTURES FOR MORE INFORMATION.
THE FOLLOWING CRITERIA MAY BE USED TO DETERMINE THE BOLT TIGHTNESS (I.E., "SNUG-TIGHT" OR "FULLY-PRETENSIONED"), UNLESS REQUIRED OTHERWISE BY LOCAL JURISDICTION OR CONTRACT REQUIREMENTS:
A) ALL A490 BOLTS SHALL BE "FULLY-PRETENSIONED".
B) ALL A325 BOLTS IN PRIMARY FRAMING (RIGID FRAMES AND BRACING) MAY BE "SNUG-TIGHT",EXCEPT AS FOLLOWS: "FULLY-PRETENSION" A325 BOLTS IF:
a) BUILDING SUPPORTS A CRANE SYSTEM WITH A CAPACITY GREATER THAN 5 TONS.
b) BUILDING SUPPORTS MACHINERY THAT CREATES VIBRATION, IMPACT OR STRESS-REVERSALS ON THE CONNECTIONS. THE ENGINEER-OF- RECORD FOR THE PROJECT SHOULD BE CONSULTED TO EVALUATE FOR THIS CONDITION.
c) THE PROJECT SITE IS LOCATED IN A HIGH SEISMIC AREA. FOR IBC-BASED CODES,"HIGH SEISMIC AREA" IS DEFINED AS "SEISMIC DESIGN CATEGORY" OF "D", "E", OR "F". SEE THE "BUILDING LOADS" SECTION OF THIS PAGE FOR THE DEFINED SEISMIC DESIGN CATEGORY FOR THIS PROJECT.
d) ANY CONNECTION DESIGNATED IN THESE DRAWINGS AS "A325-SC". "SLIP-CRITICAL (SC)" CONNECTIONS MUST BE FREE OF PAINT, OIL, OR OTHER MATERIALS THAT REDUCE FRICTION AT CONTACT SURFACES. GALVANIZED OR LIGHTLY RUSTED SURFACES ARE ACCEPTABLE.
C) IN CANADA, ALL A325 AND A490 BOLTS SHALL BE "FULLY PRE-TENSIONED", EXCEPT FOR SECONDARY MEMBERS (PURLINS, GIRTS, OPENING FRAMING, ETC.) AND FLANGE BRACES.
SECONDARY MEMBERS (PURLINS, GIRTS, OPENING FRAMING, ETC.) AND FLANGE BRACE CONNECTIONS MAY ALWAYS BE "SNUG-TIGHT", UNLESS INDICATED OTHERWISE IN THESE DRAWINGS.

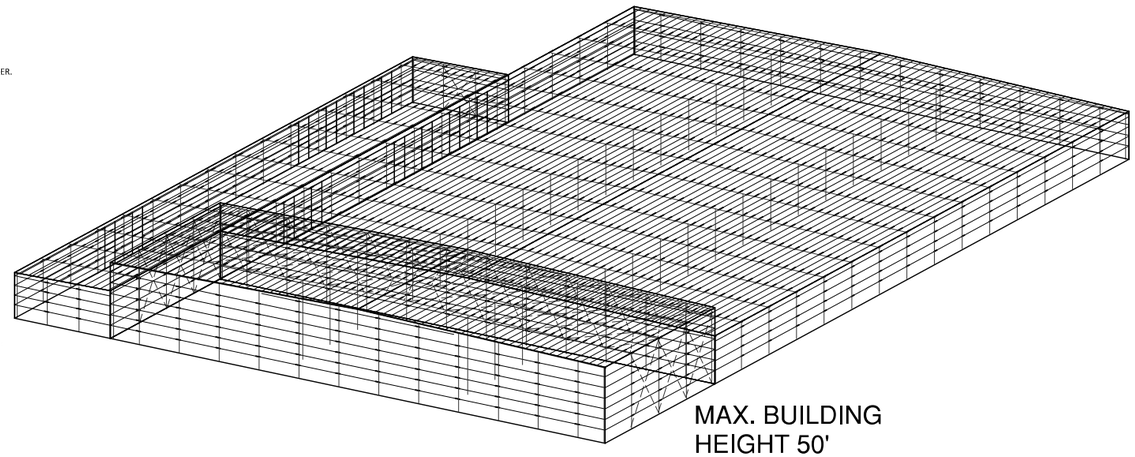
5. GENERAL DESIGN NOTES:
1) ALL STRUCTURAL STEEL SECTIONS AND WELDED PLATE MEMBERS ARE DESIGNED IN ACCORDANCE WITH ANSI/AISC 360 "SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS" OR THE CAN/CSA S16 "LIMIT STATES DESIGN OF STEEL STRUCTURES", AS REQUIRED BY THE SPECIFIED BUILDING CODE.
2) ALL WELDING OF STRUCTURAL STEEL IS BASED ON EITHER AWS D1.1 "STRUCTURAL WELDING CODE – STEEL" OR CAN/CSA W59 "WELDED STEEL CONSTRUCTION (METAL ARC WELDING)" , AS REQUIRED BY THE SPECIFIED BUILDING CODE.
3) ALL COLD FORMED MEMBERS ARE DESIGNED IN ACCORDANCE WITH ANSI/AISI 100 OR THE CAN/CSA S136 "SPECIFICATIONS FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS" , AS REQUIRED BY THE SPECIFIED BUILDING CODE.
4) ALL WELDING OF COLD FORMED STEEL IS BASED ON AWS D1.3 "STRUCTURAL WELDING CODE - SHEET STEEL" OR CAN/CSA W59 "WELDED STEEL CONSTRUCTION (METAL ARC WELDING)", AS REQUIRED BY THE SPECIFIED BUILDING CODE.
5) THIS MANUFACTURING FACILITY IS IAS AC-472 ACCREDITED AND CAN/CSA A660 AND W47.1 CERTIFIED (IF APPLICABLE) FOR THE DESIGN AND MANUFACTURING OF METAL BUILDING SYSTEMS.
6) IF JOISTS ARE INCLUDED WITH THIS PROJECT, THEY ARE SUPPLIED AS A PART OF THE SYSTEMS ENGINEERED METAL BUILDING AND ARE FABRICATED IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 1926.758 OF OSHA SAFETY STANDARDS FOR STEEL ERECTION, DATED JANUARY 18, 2001.

6. GLOSSARY OF ABBREVIATIONS:

A.B. = ANCHOR BOLTS	Max = MAXIMUM	Req'd = REQUIRED
BS = BOTH SIDES	M.B. = MACHINE BOLTS	Rev. = REVISION
B.U. = BUILT-UP	MBS = METAL BUILDING SUPPLIER	SIM = SIMILAR
Dia = DIAMETER	Min = MINIMUM	SL = STEEL LINE
Flg = FLANGE	N/A = NOT APPLICABLE	SLV = SHORT LEG VERTICAL
F.S =FAR SIDE	NIC = NOT IN CONTRACT	TBD = TO BE DETERMINED
Ga. = GAUGE	N.S. = NEAR SIDE	Typ = TYPICAL
H.S.B. = HIGH STRENGTH BOLTS	O.A.L. = OVERALL LENGTH	U.N.O. = UNLESS NOTED OTHERWISE
Ht. = HEIGHT	O.C. = ON CENTER	
LLV = LONG LEG VERTICAL	BS = BOTH SIDES	

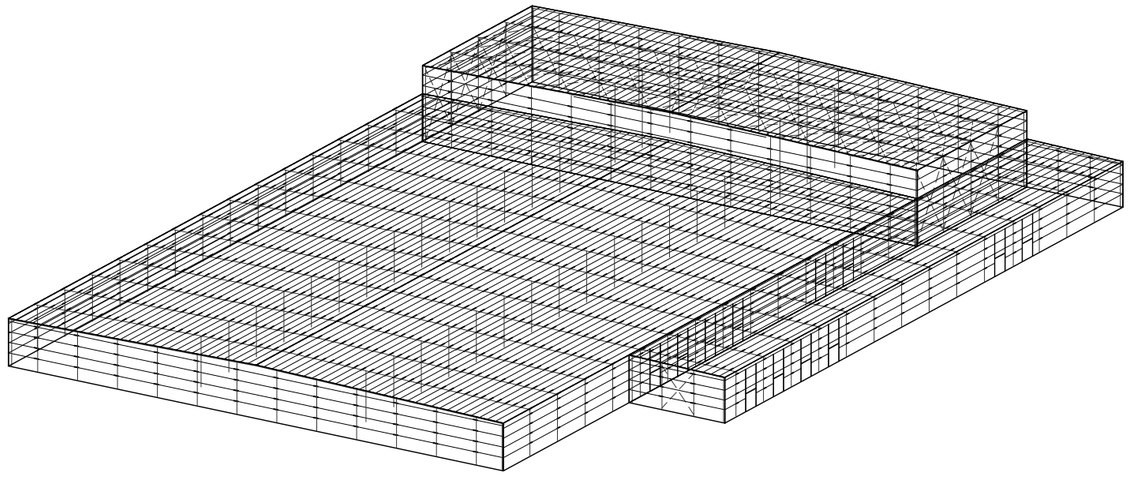
?? = PART MARK TO BE DETERMINED AND WILL BE UPDATED ON FOR CONSTRUCTION DRAWINGS

REW/ BSW



MAX. BUILDING HEIGHT 50'

LEW/ FSW



Preliminary for Review
Information found herein, such as clearances, depths, connections, details, etc., have not been finalized and are subject to change based on final design.

PRELIMINARY COVERSHEET DRAWING
DO NOT USE FOR FINAL CONSTRUCTION
11/4/2021 4:44 PM

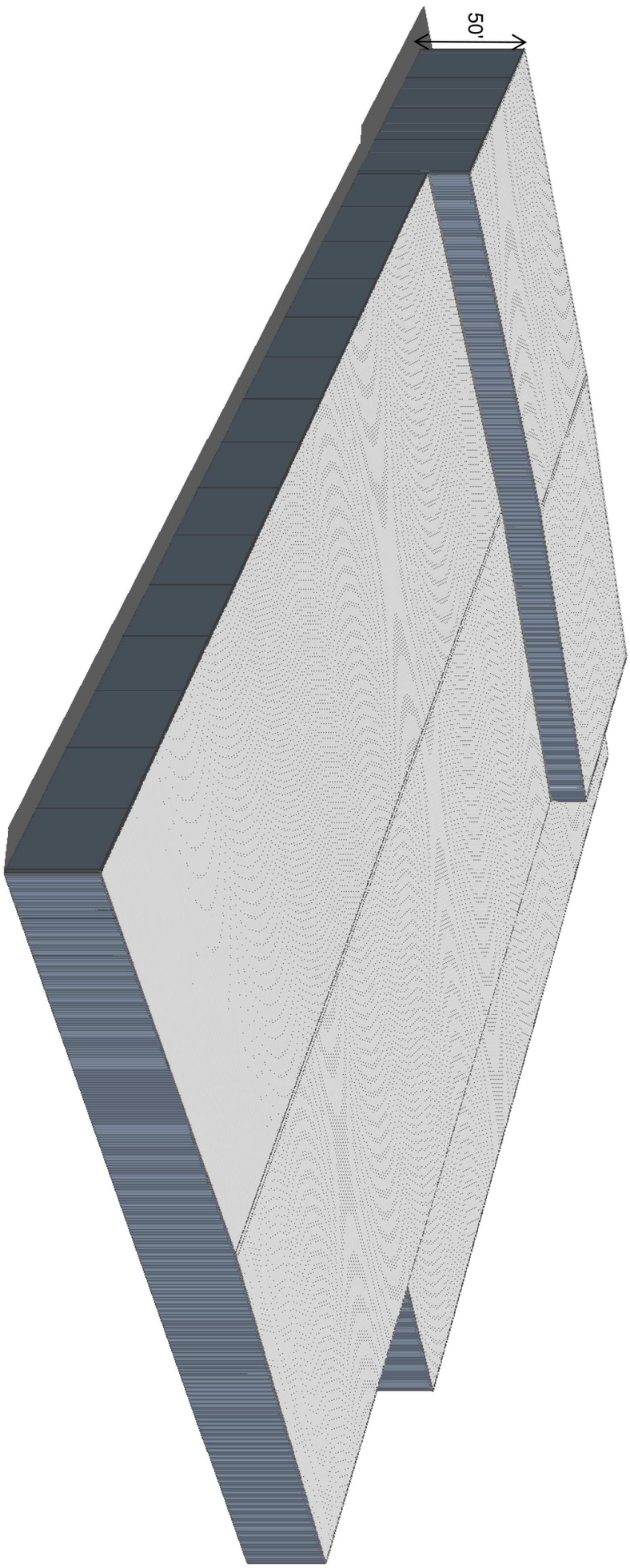
NUCOR BUILDING SYSTEMS GROUP
1050 North Watery Lane
Brigham City, UT 84302
Phone: (435) 919-3100
Fax: (435) 919-3101
www.nucorbuildingsystems.com

PROJECT NAME: PROJECT ZEBRA LYNDEN, WA
CUSTOMER: H&H STEEL ERECTORS LAKE STEVENS, WA

QUOTE NUMBER: U1R-21181

SHEET NUMBER: CV-1

Nucor eQuote



Preliminary
Not for
Construction
11/04/2021

NUCOR
eQuote

SHEET NUMBER: CV-2

QUOTE NUMBER: U1R-21181

PROJECT NAME:
PROJECT ZEBRA
LYNDEN, WA

CUSTOMER:
H&H STEEL ERECTORS
LAKE STEVENS, WA

NUCOR
BUILDING SYSTEMS GROUP
1050 North Watery Lane
Brigham City, UT 84302
Phone: (435) 919-3100
Fax: (435) 919-3101
www.nucorbuildingsystems.com
MBMA
ACCREDITED
AC472

PRELIMINARY PERSPECTIVE RENDERING

DO NOT USE FOR
FINAL CONSTRUCTION

11/4/2021 4:44 PM

WALL LINER PANEL SCHEDULE					
ID	LINER TYPE	DIST. FROM LEFT	BOTTOM OF PANEL AFF	TOP OF PANEL AFF	LENGTH
1	FULL WALL	0'-0"	0'-0"	FULL HEIGHT	FULL WIDTH
2	FULL WALL	0'-0"	0'-0"	FULL HEIGHT	FULL WIDTH
3	FULL WALL	0'-0"	0'-0"	FULL HEIGHT	FULL WIDTH
4	FULL WALL	0'-0"	0'-0"	FULL HEIGHT	FULL WIDTH

MAIN
RIDGE
HIGH BAY
RIDGE
LOADING DOCK
BSW E.H. = 27'-0"
BSW E.H. = 43'-0"
FSW E.H. = 27'-0"
FSW E.H. = 43'-0"
FSW E.H. = 25'-9"
ROOF SLOPE 0.25:12
LEW
REW
AUX SUPPORT
STEEL LINE
525'-0"
415'-0"
110'-0"
399'-0"
126'-0"
370'-0"
310'-0"
155'-0"
103'-4"
60'-0"

Column locations marked with "*" are designated as Most Economical (Pipe, Tube, or I-Shape) and will be determined at final design.

Preliminary
Not for
Construction
21/04/2021

PRELIMINARY FLOOR PLAN
DO NOT USE FOR
FINAL CONSTRUCTION
11/3/2021 10:48 AM

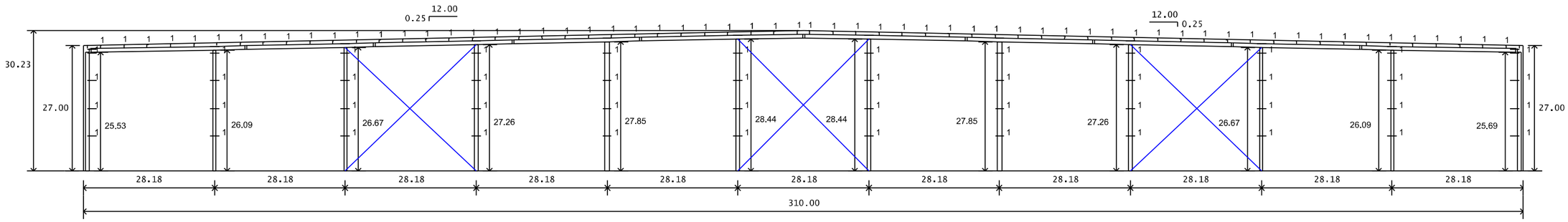
NUCOR BUILDING SYSTEMS GROUP
1050 North Watery Lane
Brigham City, UT 84302
Phone: (435) 919-3100
Fax: (435) 919-3101
www.nucorbuildingsystems.com

PROJECT NAME: PROJECT ZEBRA
LYNDEN, WA
CUSTOMER: H&H STEEL ERECTORS
LAKE STEVENS, WA

QUOTE NUMBER: U1R-21181

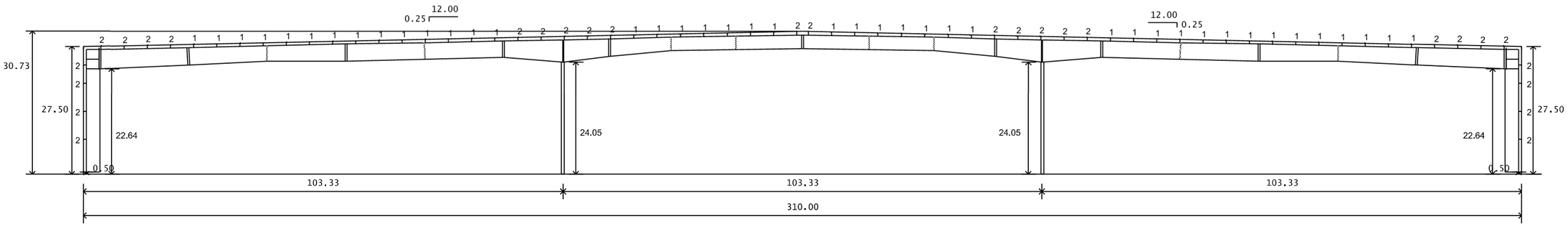
SHEET NUMBER: FP-1

eQuote



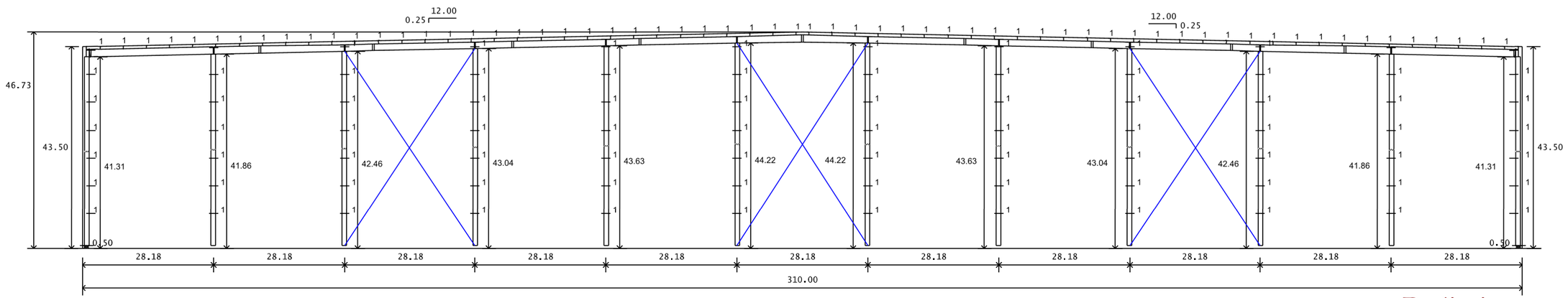
FRAME @ LINE 1

*ALL CLEAR DIMENSIONS ARE SUBJECT TO CHANGE AT TIME OF FINAL DESIGN, UNLESS NOTED OTHERWISE IN THE SPECIAL USER NOTES SECTION.



FRAME @ LINES 2-16

*ALL CLEAR DIMENSIONS ARE SUBJECT TO CHANGE AT TIME OF FINAL DESIGN, UNLESS NOTED OTHERWISE IN THE SPECIAL USER NOTES SECTION.



FRAME @ LINES 18,22

*ALL CLEAR DIMENSIONS ARE SUBJECT TO CHANGE AT TIME OF FINAL DESIGN, UNLESS NOTED OTHERWISE IN THE SPECIAL USER NOTES SECTION.

Preliminary Not for Construction
11/04/2021

PRELIMINARY FRAME SECTIONS
DO NOT USE FOR FINAL CONSTRUCTION
11/4/2021 4:44 PM

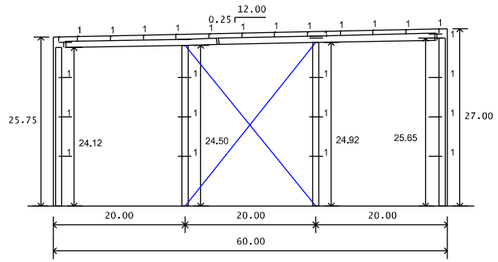
NUCOR BUILDING SYSTEMS GROUP
1050 North Watery Lane
Brigham City, UT 84302
Phone: (435) 919-3100
Fax: (435) 919-3101
www.nucorbuildingsystems.com

PROJECT NAME: PROJECT ZEBRA
LYNDEN, WA
CUSTOMER: H&H STEEL ERECTORS
LAKE STEVENS, WA

QUOTE NUMBER: U1R-21181

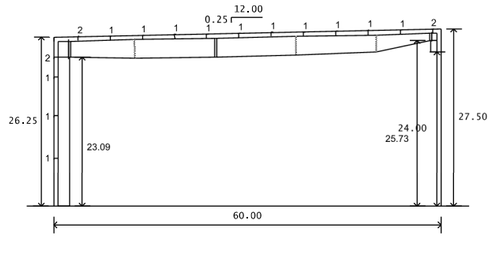
SHEET NUMBER: FX-1

NUCOR eQuote



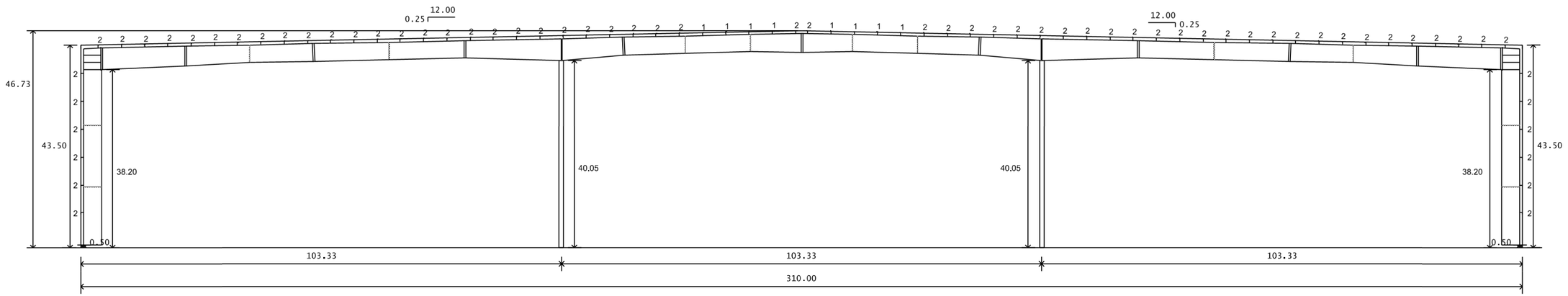
FRAME @ LINES 6,22

*ALL CLEAR DIMENSIONS ARE SUBJECT TO CHANGE AT TIME OF FINAL DESIGN, UNLESS NOTED OTHERWISE IN THE SPECIAL USER NOTES SECTION.



FRAME @ LINES 7-21

*ALL CLEAR DIMENSIONS ARE SUBJECT TO CHANGE AT TIME OF FINAL DESIGN, UNLESS NOTED OTHERWISE IN THE SPECIAL USER NOTES SECTION.



FRAME @ LINES 19-21

*ALL CLEAR DIMENSIONS ARE SUBJECT TO CHANGE AT TIME OF FINAL DESIGN, UNLESS NOTED OTHERWISE IN THE SPECIAL USER NOTES SECTION.

Preliminary Not for Construction
11/04/2021

PRELIMINARY FRAME SECTIONS

DO NOT USE FOR FINAL CONSTRUCTION

11/4/2021 4:44 PM

NUCOR BUILDING SYSTEMS GROUP
1050 North Watery Lane
Brigham City, UT 84302
Phone: (435) 919-3100
Fax: (435) 919-3101
www.nucorbuildingsystems.com

PROJECT NAME: PROJECT ZEBRA
LYNDEN, WA

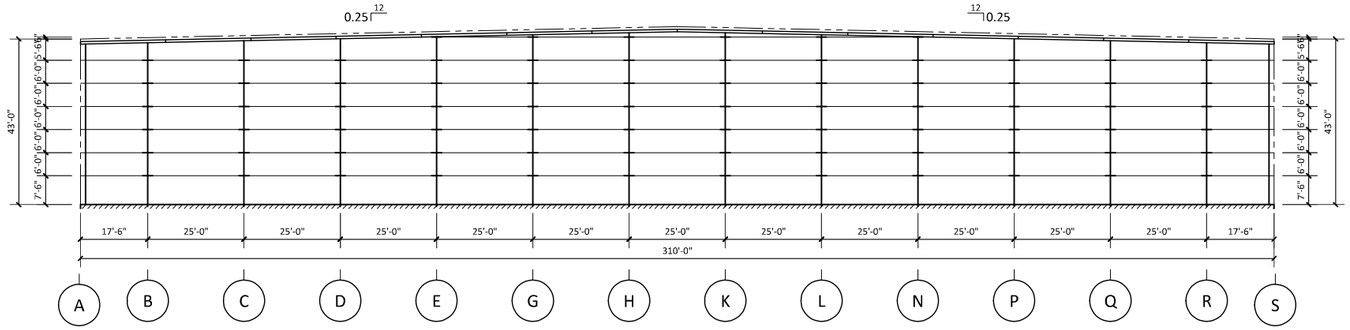
CUSTOMER: H&H STEEL ERECTORS
LAKE STEVENS, WA

QUOTE NUMBER: U1R-21181

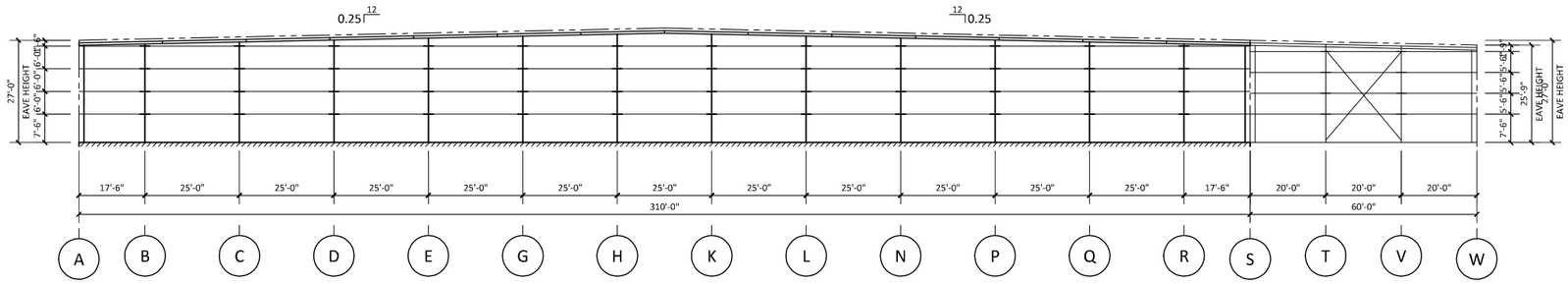
SHEET NUMBER: FX-1

eQuote

FRAMED OPENING SCHEDULE					
ID	QTY	WIDTH	HEIGHT	SILL HEIGHT	LOCATED
1	12	10'-0"	10'-0"	0'-0"	FACTORY

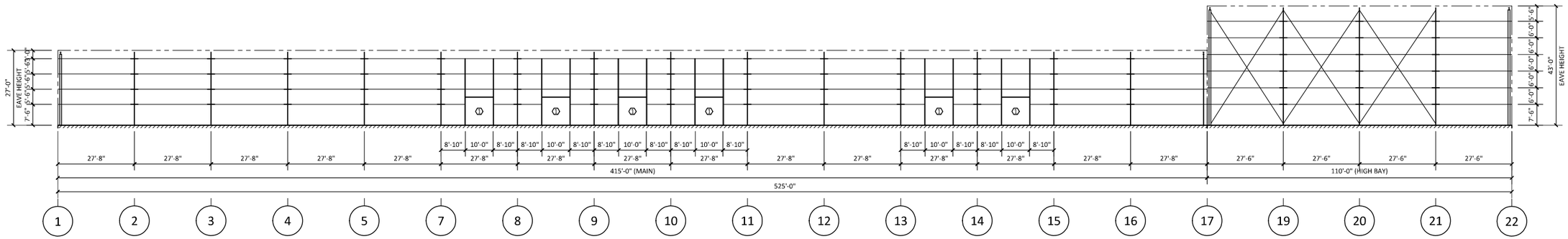


ELEVATION AT LINE 17

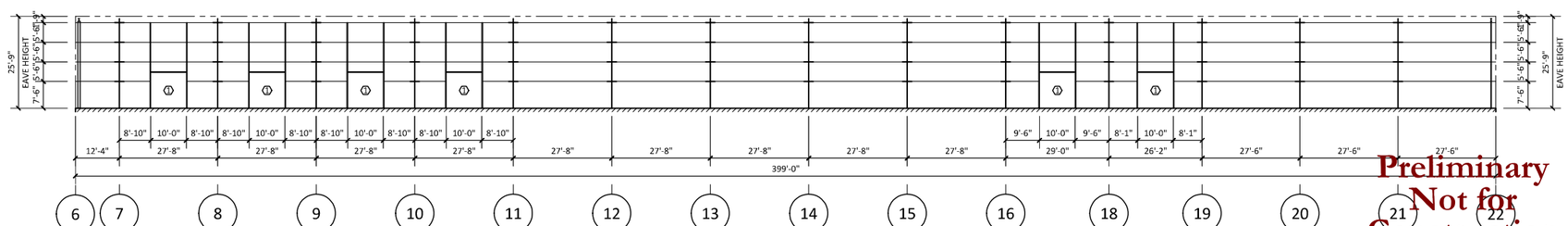


ELEVATION AT LINE 1

ELEVATION AT LINE 6



ELEVATION AT LINE S



ELEVATION AT LINE W

Preliminary
Not for
Construction
11/04/2021

PRELIMINARY STRUCTURAL ELEVATIONS

DO NOT USE FOR
FINAL CONSTRUCTION

11/4/2021 4:44 PM

NUCOR BUILDING SYSTEMS GROUP
1050 North Watery Lane
Brigham City, UT 84302
Phone: (435) 919-3100
Fax: (435) 919-3101
www.nucorbuildingsystems.com

PROJECT NAME:
PROJECT ZEBRA
LYNDEN, WA

CUSTOMER:
H&H STEEL ERECTORS
LAKE STEVENS, WA

QUOTE NUMBER:
U1R-21181

SHEET NUMBER:
ST-1

Nucor eQuote

ELEVATION AT LINE 22

ELEVATION AT LINE A

Preliminary
Not for
Construction
11/04/2021

PRELIMINARY STRUCTURAL ELEVATIONS

DO NOT USE FOR
FINAL CONSTRUCTION

11/4/2021 4:44 PM

NUCOR BUILDING SYSTEMS GROUP
1050 North Watery Lane
Brigham City, UT 84302
Phone: (435) 919-3100
Fax: (435) 919-3101
www.nucorbuildingsystems.com

PROJECT NAME:
PROJECT ZEBRA
LYNDEN, WA

CUSTOMER:
H&H STEEL ERECTORS
LAKE STEVENS, WA

QUOTE NUMBER:
U1R-21181

SHEET NUMBER:
ST-2

Nucor eQuote