



PROJECT NUMBER: 1

PROJECT NAME: Redfern

PROJECT LOCATION: Madbury, NH COUNTY: Strafford

CUSTOMER: Seacoast Crane & Building Co., Inc Kittery, ME



PROJECT LOADS

DESIGN CODE: IBC 2015 BUILDING END USE: 3A

ROOF LIVE LOAD: 20_PSF MBMA OCC. CLASS: II - Standard Buildings

GROUND SNOW LOAD: 60_PSF SNOW EXP. FACTOR, Ce: 1

SNOW IMPORTANCE FACTOR, Is: 1

WIND: 120 WIND IMPORTANCE FACTOR, Iw: 1

EXPOSURE: B WITHIN HURRICANE COASTLINE YES NO

UL 90 YES NO RAIN INTENSITY (in/hr) N/A

SEISMIC INFORMATION S90.276, S10.082

Design Sds/Sdt: _____ Site Class: D

Seismic Imp. Factor Ie: 1 Seismic Design Category: _____

Analysis Procedure: Equivalent Lateral Force Method

Basic SEFRS: _____

NOTES:

1) COLLATERAL DEAD LOADS, UNLESS OTHERWISE NOTED, ARE ASSUMED TO BE UNIFORMLY DISTRIBUTED. WIND SUSPENDED SPRINKLER SYSTEMS, LIGHTING, HVAC EQUIPMENT, CEILING, ETC., ARE SUSPENDED FROM ROOF MEMBERS. CONSULT THE M.S.B. 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	
ROOF DEAD (PSF):	2.9
PRI. COI. (PSF):	5
SEC. COI. (PSF):	5
SNOW COI.	1
SNOW COI.	1
ROOF SNOW (PSF):	42
WIND ENVELOPE:	Exposed
CSM:	
SEISMIC R:	
SEISMIC COI:	
BASIS SHEAR (KIPS):	

GENERAL NOTES

1. MATERIALS	ASTM DESCRIPTION	MATERIALS	ASTM DESCRIPTION
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	A479
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, WHICH MEMBERS 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 516 STANDARDS PERTAINING TO PROPER ERECTION. TEMPORARY SUPPORTS SUCH AS CHAINS, BRACKETS, FASCINATING 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 COMPENSATE INSTABILITY TO NODES FOR WHICH THE STRUCTURE WAS DESIGNED. IN ADDITION TO LOADS RESULTING FROM THE ERECTION OPERATION, SECONDARY WALL AND ROOF FRAMING (PURLINS, GIRTS AND/OR JOBS) ARE NOT DESIGNED TO FUNCTION AS A WORKING PLATFORM OR TO PROVIDE AN ANCHORAGE POINT FOR A FALL ARREST / SAFETY TIE OFF.

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 AISC 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-PRE-TENSIONED"), UNLESS REQUIRED OTHERWISE BY LOCAL JURISDICTION OR CONTRACT REQUIREMENTS:
 A) ALL A490 BOLTS SHALL BE "FULLY-PRE-TENSIONED".
 B) ALL A325 BOLTS IN PRIMARY FRAMING (RIGID FRAMES AND BRACING) MAY BE "SNUG-TIGHT" EXCEPT AS FOLLOWS: "FULLY-PRE-TENSIONED" A325 BOLTS IN:
 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 (BC-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 DESIGN SEISMIC DESIGN CATEGORY FOR THIS PROJECT.
 d) ANY CONNECTION DESIGNATED IN THESE DRAWINGS AS "A325-SNUG-TIGHT" OR "SLIP-CRITICAL (SC)" CONNECTIONS MUST BE FREE OF PAINT, OIL, OR OTHER MATERIALS THAT REDUCE FRICTION AT CONTACT SURFACES. SAWNWOOD 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/AISC 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 INT.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 1826.758 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. = BUILD-UP	M.S. = METAL BUILDING SUPPLIER	SH = SHOWER
Dia = DIAMETER	Min = MINIMUM	SL = STEEL LINE
Fs = FLANGE	N/A = NOT APPLICABLE	SLV = SHORT LED VERTICAL
F.S. = FAR SIDE	NC = 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.A.C. = UNLESS NOTED OTHERWISE
HL = HEAD	O.C. = ON CENTER	
L.V. = LOW LED VERTICAL	BS = BOTH SIDES	

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



PROJECT NAME: REDFERN

PROJECT ADDRESS: MADBURY, NH

CUSTOMER NAME: SEACOAST CRANE & BUILDING CO., INC

CUSTOMER ADDRESS: KITTERY, ME

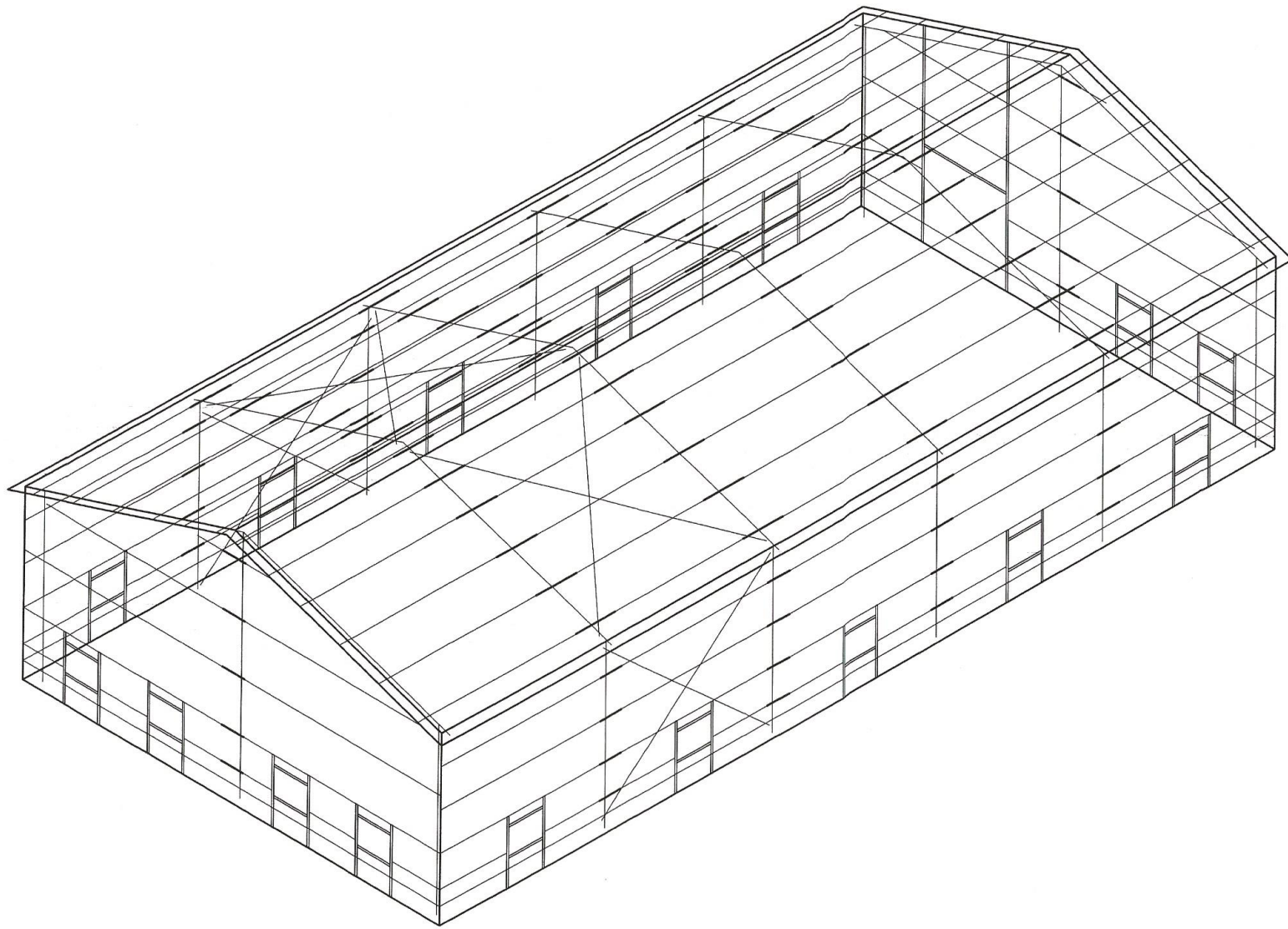
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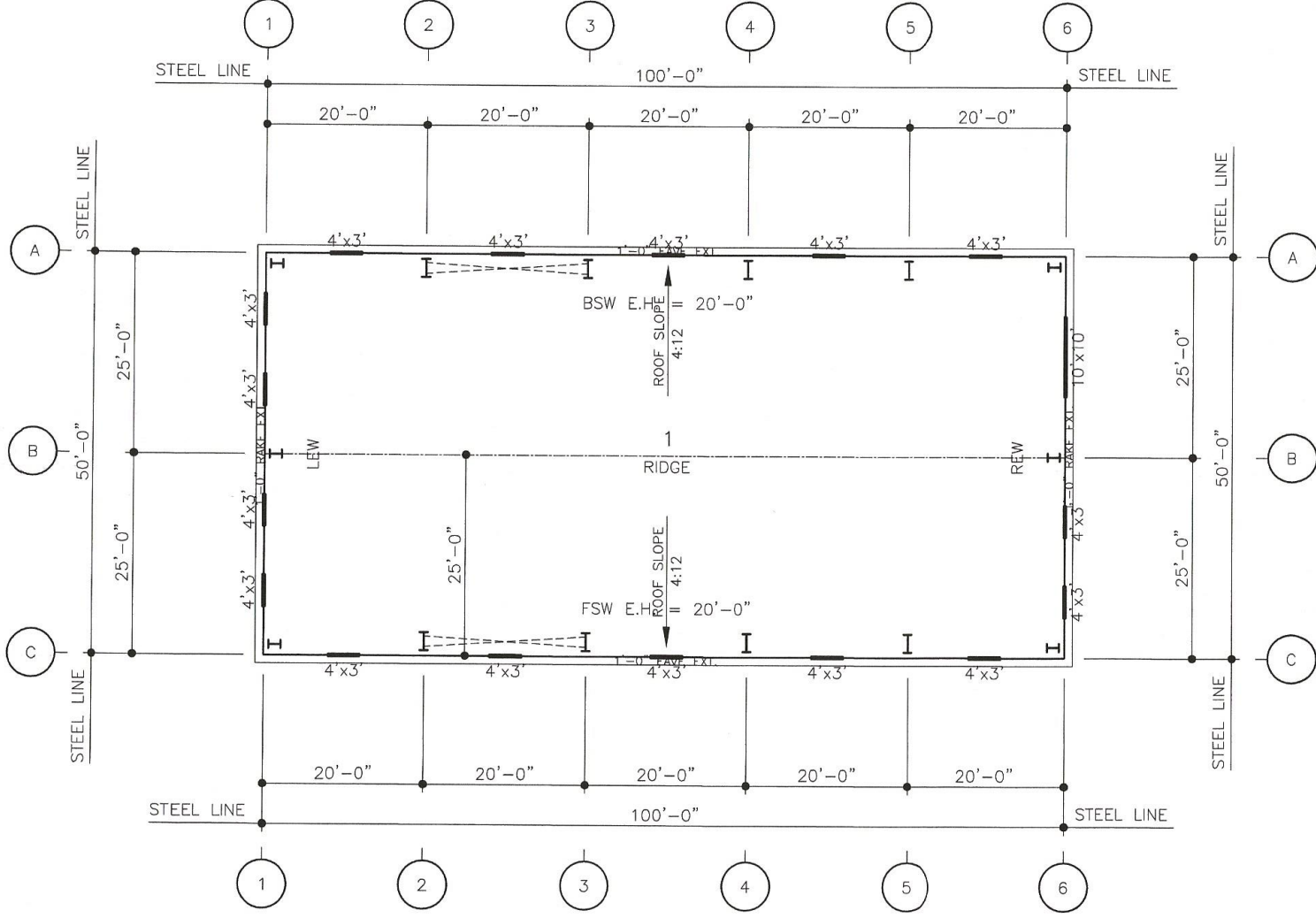
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DATE: 7/16/2023 10:59 AM

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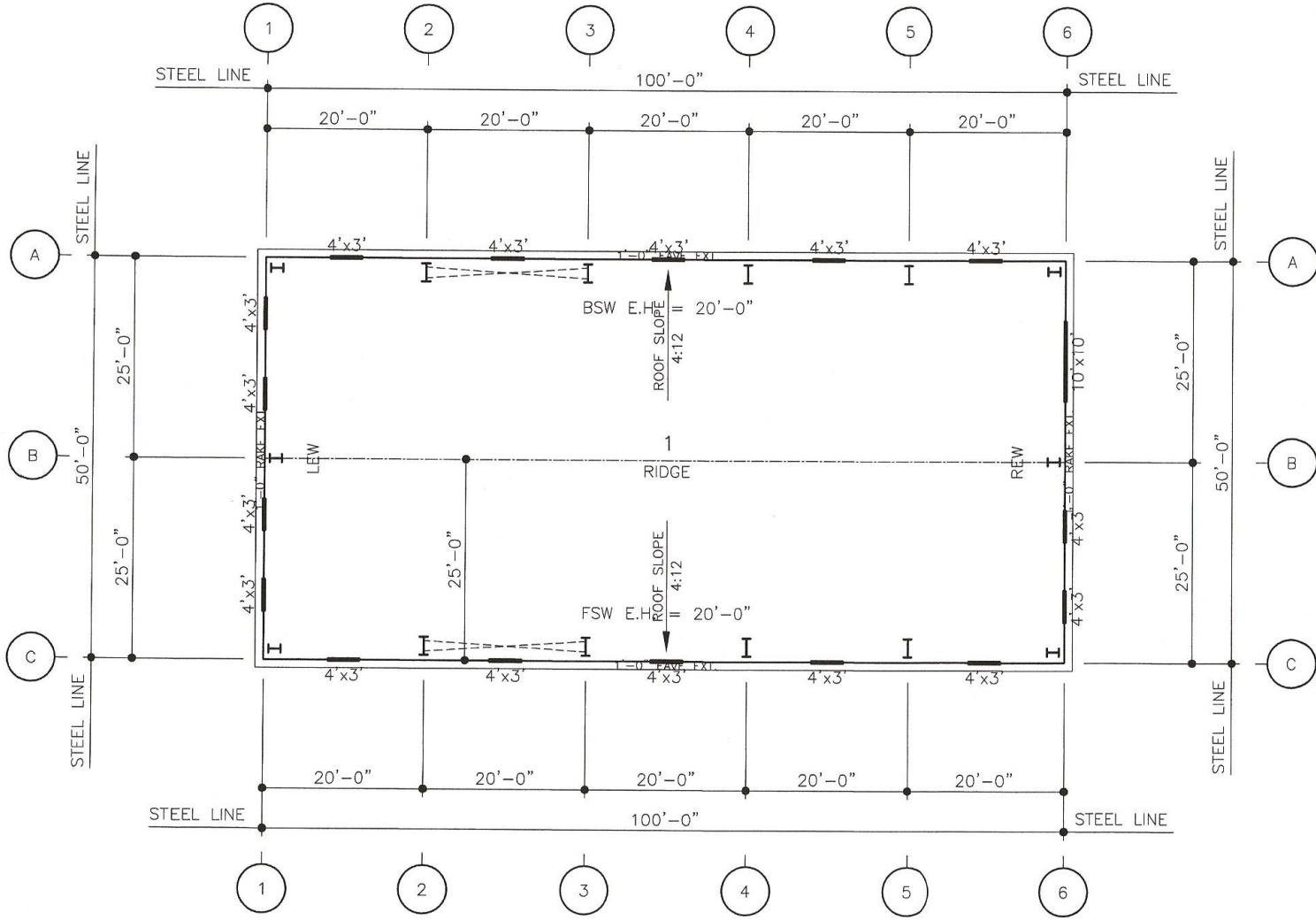




PROJECT NAME:
 REDFERN
 MADBURY, NH
 CUSTOMER NAME:
 SEACOAST CRANE & BUILDING CO., INC
 KITTFERY, MF

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 SHEET NUMBER:
 FP1

7/16/2021 10:51 AM
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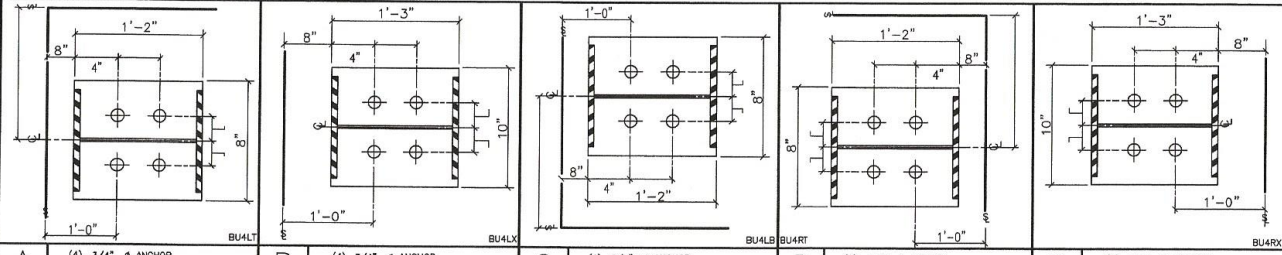


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 MADBURY, NH
 CUSTOMER NAME: SEACOAST CRANE & BUILDING CO., INC
 KITTFERY, MF

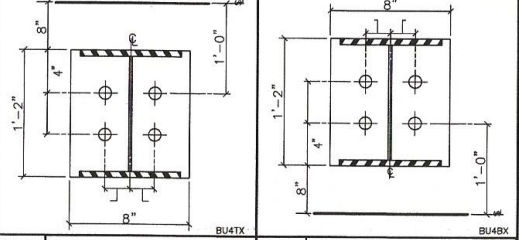
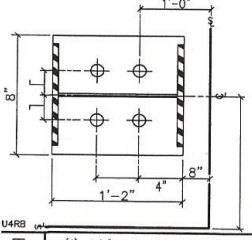
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 SHEET NUMBER: QUOTE NUMBER: 1
 FP1

ANCHOR BOLT PLAN

GENERAL NOTES
 1. THE SPECIFIED ANCHOR ROD DIAMETER ASSUMES F1554 GRADE 36 UNLESS NOTED OTHERWISE. ANCHOR ROD MATERIAL OF EQUAL DIAMETER MEETING OR EXCEEDING THE STRENGTH REQUIREMENTS SET FORTH ON THESE DRAWINGS MAY BE UTILIZED AT THE DISCRETION OF THE FOUNDATION DESIGN ENGINEER. ANCHOR ROD EMBEDMENT LENGTH SHALL BE DETERMINED BY THE FOUNDATION DESIGN ENGINEER.
 2. HUCOR BUILDING SYSTEMS IS NOT RESPONSIBLE FOR PROJECT FOUNDATION DESIGN. THE FOUNDATION DESIGN IS THE RESPONSIBILITY OF A REGISTERED PROFESSIONAL ENGINEER, FAMILIAR WITH LOCAL SITE CONDITIONS.
 3. ALL ANCHOR RODS, FLAT WASHERS FOR ANCHOR RODS, EXPANSION BOLTS, AS WELL AS ALL CONCRETE/MASONRY EMBED PLATES ARE NOT BY HUCOR BUILDING SYSTEMS. THIS DRAWING IS NOT TO SCALE.
 4. FINISHED FLOOR ELEVATION = 100'-0" UNLESS NOTED OTHERWISE.
 5. "SINGLE" CEE COLUMNS SHALL BE ORIENTED WITH THE "TOES" TOWARD THE LOW EAVE UNLESS NOTED OTHERWISE.



BERTNOTE
 A (4) 3/4" # ANCHOR BOLTS WITH A 3" PROJECTION
 B (4) 3/4" # ANCHOR BOLTS WITH A 3" PROJECTION
 C (4) 3/4" # ANCHOR BOLTS WITH A 3" PROJECTION
 D (4) 3/4" # ANCHOR BOLTS WITH A 3" PROJECTION
 E (4) 3/4" # ANCHOR BOLTS WITH A 3" PROJECTION

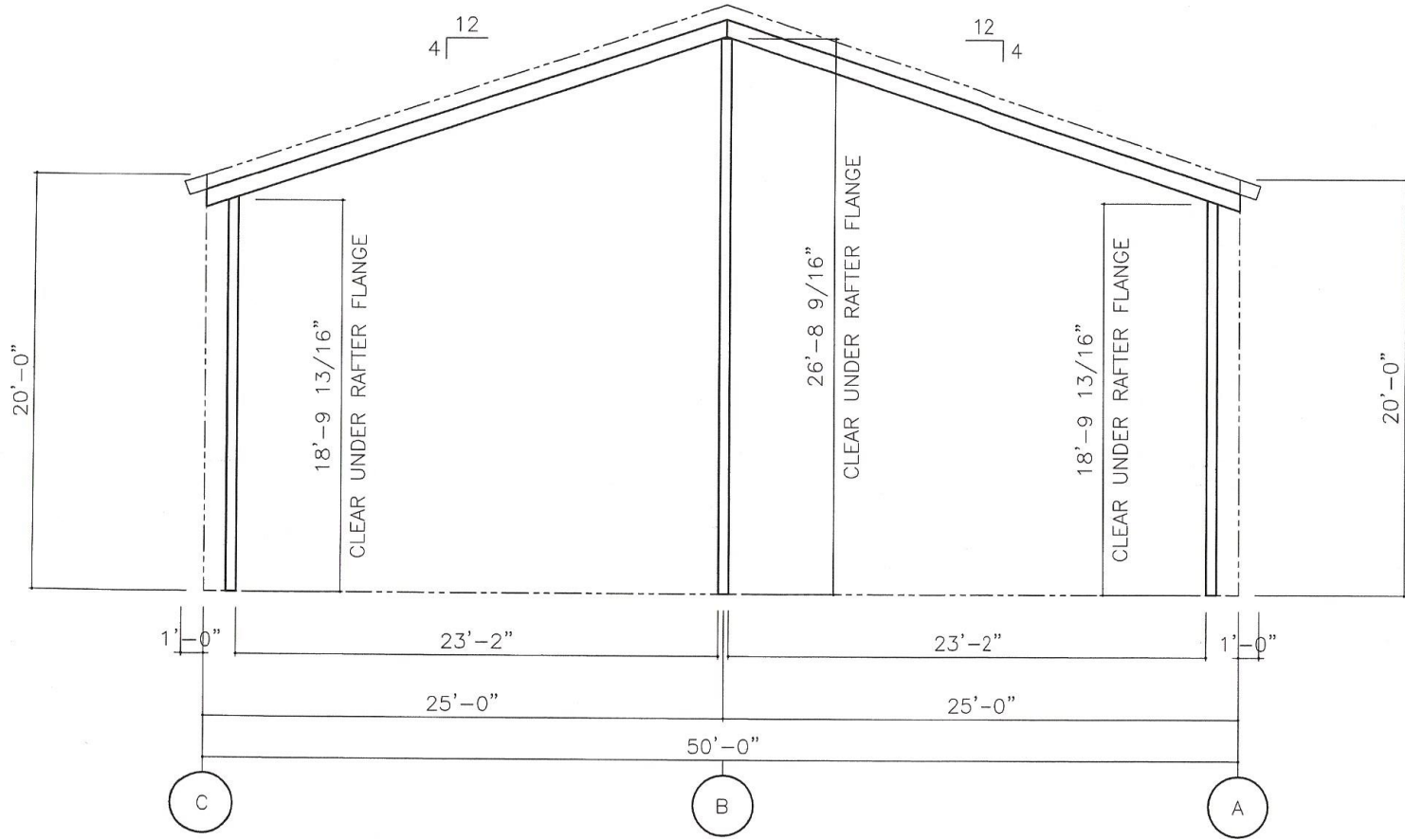


F (4) 3/4" # ANCHOR BOLTS WITH A 3" PROJECTION
 G (4) 3/4" # ANCHOR BOLTS WITH A 3" PROJECTION
 H (4) 3/4" # ANCHOR BOLTS WITH A 3" PROJECTION



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 SHEET TITLE:
 PRELIMINARY ANCHOR BOLT DETAILS
 SHEET NUMBER:
 AB1 OF 1
 QUOTE NUMBER:
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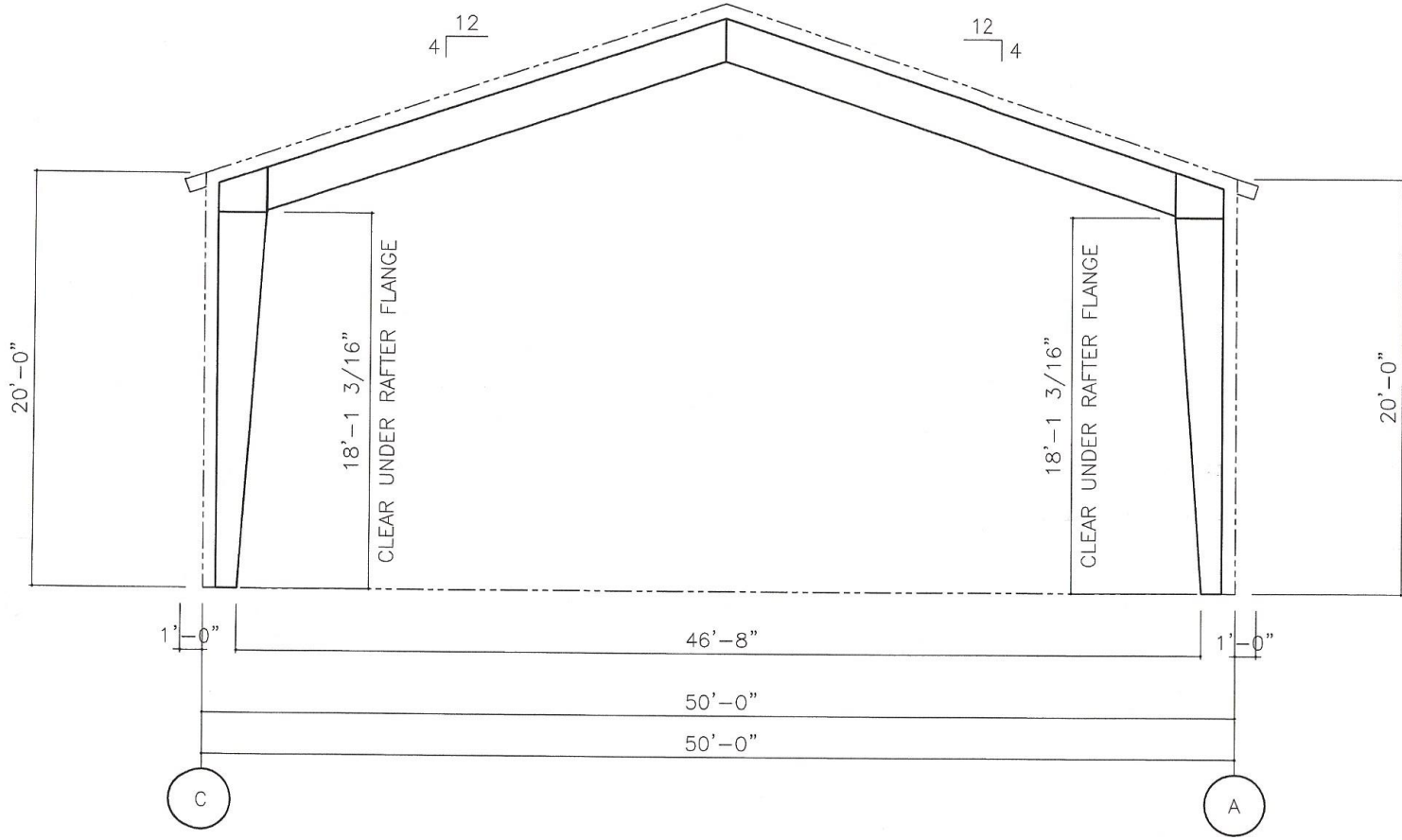
FRAME @ LINE(S) 1,6

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



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 CUSTOMER NAME: SEACOAST CRANE & BUILDING CO., INC
 KITTFRY, MF

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 PRELIMINARY FRAME CROSS SECTIONS
 SHEET NUMBER: 1
 QUOTE NUMBER: FX



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PROJECT NAME:	REDFERN MADBURY, NH
PRELIMINARY FRAME CROSS SECTIONS	CUSTOMER NAME: SEACOAST CRANE & BUILDING CO., INC
SHEET NUMBER:	QUOTE NUMBER: 1
FX	KITTFRY, MF