



TOWN OF MILFORD, NH
OFFICE OF COMMUNITY DEVELOPMENT

1 UNION SQUARE, MILFORD, NH 03055

TEL: (603)249-0620

WEB: WWW.MILFORD.NH.GOV

Date: January 12, 2021
To: Planning Board
From: Lincoln Daley, Community Development Director
Subject: Zachary Clark (applicant/owner), Tax Map 47, Lot 39, 557 Route 13 South. Site Plan and Conditional Use Permit to construct a 1,300 square foot building to be used as a home industry based business within the Residential 'R' Zoning District.

BACKGROUND/PROPOSAL:

The applicant is before the Board seeking approval of a Conditional Use Permit pursuant to Section 7.12 Home Based Business to permit a Home Industry based business use, heating and cooling installation business (Northeast Climate Heating & Cooling) and Site Plan Application to construct a 1,300 square foot building to provide cold storage of equipment, vehicles, and materials for said business on Tax Map 47, Lot 39, 557 Route 13 South within the Residential 'R' Zoning District.

APPLICATION STATUS:

The application is complete and ready to be accepted.

NOTICES:

Notices were sent to all property abutters on January 8, 2021.

REGIONAL IMPACT:

The Board will need to determine if the application would result in Regional Impact.

WAIVERS:

No waivers are being requested.

EXISTING USE/CONDITIONS:

The proposed parcel, Tax Map 47, Lot 39 consists of 1 acre (43,560 sq.ft.) with approximately 216 linear feet of frontage on the Route 13 South. The property is laterally bisected by delineated wetland resource areas along the northern half of the property. The property consists of a single-family residence with two accessory structures. The topography for the property slopes slightly downward from north to south with a grade differential of 4-6 feet. The subject property is located adjacent to the County Auto Realty Company to the west, undeveloped land to the north, and residential homes to the south.

LOT AREA:

Tax Map 47, Lot 39 = ± 1 acre (43,506 sq.ft.)

ZONING DISTRICTS/INFORMATION:

The parcel lies within the Residential 'R' zoning district. The intent of the Residence "R" District is to provide for low-density residential and agricultural land uses, and other compatible land uses, that are sensitive to the rural character and environmental constraints existing in the district.

A heating and cooling service business falls under the category of a Home Industry home based business pursuant to Section 7.12.7 of the Zoning Ordinance and is permitted in the Residential 'R' zoning district through the issuance of a Conditional Use Permit and approval of a Minor Site Plan application by the Planning Board.

PLANNING BOARD REVIEW:

The Board shall review this application based on Sections 7.12.7 and 7.14.3 of the Milford Zoning Ordinance and the Milford Development Regulations for a Minor Site Plan. For your convenience, the pertinent standards and conditions from both sections are listed below.

HOME BASED BUSINESSES, SECTION 7.12.7 HOME INDUSTRY CONDITIONAL USE PERMIT

Conditional Use Permit: In addition to the standards and conditions stated in Section 7.14.0 of the Milford Zoning Ordinance, the following criteria must be met for a Conditional Use Permit to be issued by the Planning Board.

1. No more than six (6) people, including the resident(s), may be employed on the premises.

The applicant states that there will be a total of 4 employees associated with the business (two owners and two employees).

2. The Home Industry may be conducted in part outdoors, but all such activities, equipment, and storage shall be permanently screened from the view of abutters and from public ways by buffers such as year round vegetation, fences, and/or topography.

The application did not provide sufficient detail to determine what (if any) activities associated with the home industry will be conducted outside. The applicant should be prepared to explain. If planned activities, storage of materials/equipment, and/or other operational elements occur outdoor, then the site plan will need to be amended to include appropriate permanent, year round screening.

3. No more than one quarter (25%) of the lot area, exclusive of areas covered by buildings, shall be used for the Home Industry, including outdoor storage or parking.

The property totals approximately 1 acre. As depicted on the site plan, the proposed dry storage building and parking areas fall well below the maximum 25% permitted under the ordinance. However, the applicant will need to explain if the business operations include outdoor storage of equipment and materials.

4. The Planning Board must determine that access to the premises by all vehicles that are anticipated to commonly serve the use will do so without adversely affecting safety in the vicinity, whether those vehicles are based on the premises or elsewhere.

The private roadway services three properties (including the subject parcel), one residential property directly across the street to south, a commercial operation to the west, and the subject property containing a single family residence. The applicant states that there will be a maximum of 3 company vehicles on the site associated with the business. Given the type of business and hours of operation, the three additional vehicles will not adversely affect safety in the vicinity of the property and access/egress to Route 13.

5. Commercial vehicles may be permitted provided that the vehicles do not adversely affect the character of the neighborhood, as determined by the Planning Board.

The applicant states that there will be a maximum of 3 company vehicles on the site associated with the business. Given the type of business and hours of operation, the three additional vehicles will have minimal affect the character of area. However, given proximity of the proposed home industry to the abutting residential property across the roadway, the Board should discuss if year round visual mitigation is needed to manage vehicle head lights.

6. Hours of Operation- A Home Industry shall be conducted in a way to minimize the external effects (such as but not limited to noise, odors, traffic) on abutting properties. The hours of operation shall be determined through the site plan review process.

The proposed hours of operations will be 7am – 5pm, Monday through Friday.

7. Hazardous Substances - The use shall not involve the storage or use of hazardous, flammable or explosive substances, other than types and amounts commonly found in a dwelling. The use shall not involve the use or storage of toxic substances.

The applicant will need to explain what (if any) hazardous, flammable or explosive substances will be stored or

used in association with the proposed business. In addition, the property is subject to the Groundwater Level 1 Protection Area which restricts the use of regulated substances such as petroleum, petroleum products, and substances listed under 40 CFR 302 (as amended).

CONDITIONAL USE PERMITS, SECTION 7.14.3 STANDARDS APPLICABLE TO ALL CONDITIONAL USE PERMITS

- A. That the property in question is in conformance with the dimensional requirements of the zone or is determined to be legally non-conforming and that the proposed use is consistent with the Milford Master Plan.
- B. That the proposal meets the purposes of the Ordinance under which the application is proposed.
- C. That there will be no significant adverse impacts resulting from the proposed use upon the public health, safety and general welfare of the neighborhood and the Town of Milford.
- D. That the proposed use will not be more objectionable to nearby properties by reason of noise, fumes, vibration, or inappropriate lighting than any use of the property permitted under the existing Zoning District Ordinances.
- E. That the proposed use will not adversely affect the ground water resource of Milford, in particular the Groundwater Protection District areas as defined in Section 6.01.0 of this Ordinance.

TRAFFIC AND ACCESS MANAGEMENT:

Access and egress to proposed business will be from the existing private driveway and curb cut on Route 13 South. The private roadway services three properties (including the subject parcel), one residential property directly across the street to south, a commercial operation to the west, and the subject property containing a single family residence. The applicant should provide additional information pertaining to the anticipated number of company vehicle trips from the site associated with the business and deliveries.

PARKING:

Per the Milford Development Regulations, parking for a wholesale, storage, warehouse uses requires 1 space per 1,000 sf. totaling 2 spaces. The parking areas associated with the heating and cooling business operations will be located in front of the proposed building (unmarked). The application states that the business will have a total of 3 company vehicles on the site and 4 employees (2 owners and 2 employees). To avoid parking “creep” and to minimize the visual impact to abutting properties, the site plan will need to be revised to show a minimum of three spaces to accommodate company vehicles.

DRAINAGE/STORMWATER MANAGEMENT:

No proposed drainage or stormwater management was proposed by the applicant. Staff recommends the installation of a raingarden or equivalent to manage the roof runoff.

UTILITIES:

The property is currently serviced by private well and septic. The current plan does not show any utilities connected to the cold storage structure.

INTERDEPARTMENTAL REVIEWS:

Ambulance: No comments.

Assessing: No comments.

Building Department: No comments.

Code Enforcement/ Health: No comments.

Conservation Commission: See attached memo dated 5/21/09.

Environmental Programs/Stormwater: Staff recommends that the applicant revise the plan set to include a raingarden or equivalent to manage the stormwater from roof runoff of the proposed building.

Fire Department: No comments

Heritage Commission: No comments.

Police Department: No comments.

Public Works: No comments.

Water/Sewer Utilities: No comments.

Community Development / Planning:

Site Plan Comments & Questions:

1. Proposed Note #1 – Please revise the note as follows, “The purpose of this plan is to depict a home based business (home industry) pursuant to Milford Zoning Ordinance, Article VII, Section 7.12 Home Based Business and the construction of a 1,260 SF proposed cold storage building and associated site improvements on the existing Tax Map Lot 47-39.
2. Insert Proposed Note #2 and renumber accordingly to read as follows, “The Home Industry use is subject the issuance of a Conditional Use Permit pursuant to Milford Zoning Ordinance, Article VII, Section 7.12 Home Based Business which was approved by the Planning Board on _____, 2021.”
3. The landscape plan indicates two additional plantings (inkberry holy bushes). Per Section 6.08.6 of the Milford Development Regulations, a minimum of one (1) shrub for every five (5’) feet of building frontage shall be provided. As such, the site plan requires a minimum of 6 shrubs. Given the location of the proposed building and proximity to the residential home directly across the private roadway, staff recommends additional plantings (year round) or fence to mitigate the visual impact of the building/use and spillage of lights from the company/employee vehicles leaving the subject property. The visual mitigation measures may be located on said abutting property with the permission of the owner. The plan should be revised accordingly.
4. Site Plan Legend – Please amend the label shown for the cold storage building to read “Proposed Cold Storage Building”. Similarly, please amend the label shown for the residence to read “Residence Building”.
5. Site Plan / Legend – Wall lights are shown in the Legend only. Please revise the plan showing all proposed lighting located on the proposed and existing structures.
6. Site Plan – Per Section 6.08.5 landscape buffers, the dumpster shown on the plan is require a buffers is required to provide a visual screen. Please revise the plan accordingly.
7. Site Plan – An existing shed is located in the wetland buffer. Either relocate the subject shed out of the wetland buffer or submit a Special Exception seeking relief from the Ordinance, Section 6.02.6.B to locate the structure within the wetland buffer.
8. Site Plan – Please amend the Planning Board Signature block by replacing “Subdivision” with “Site Plan”.

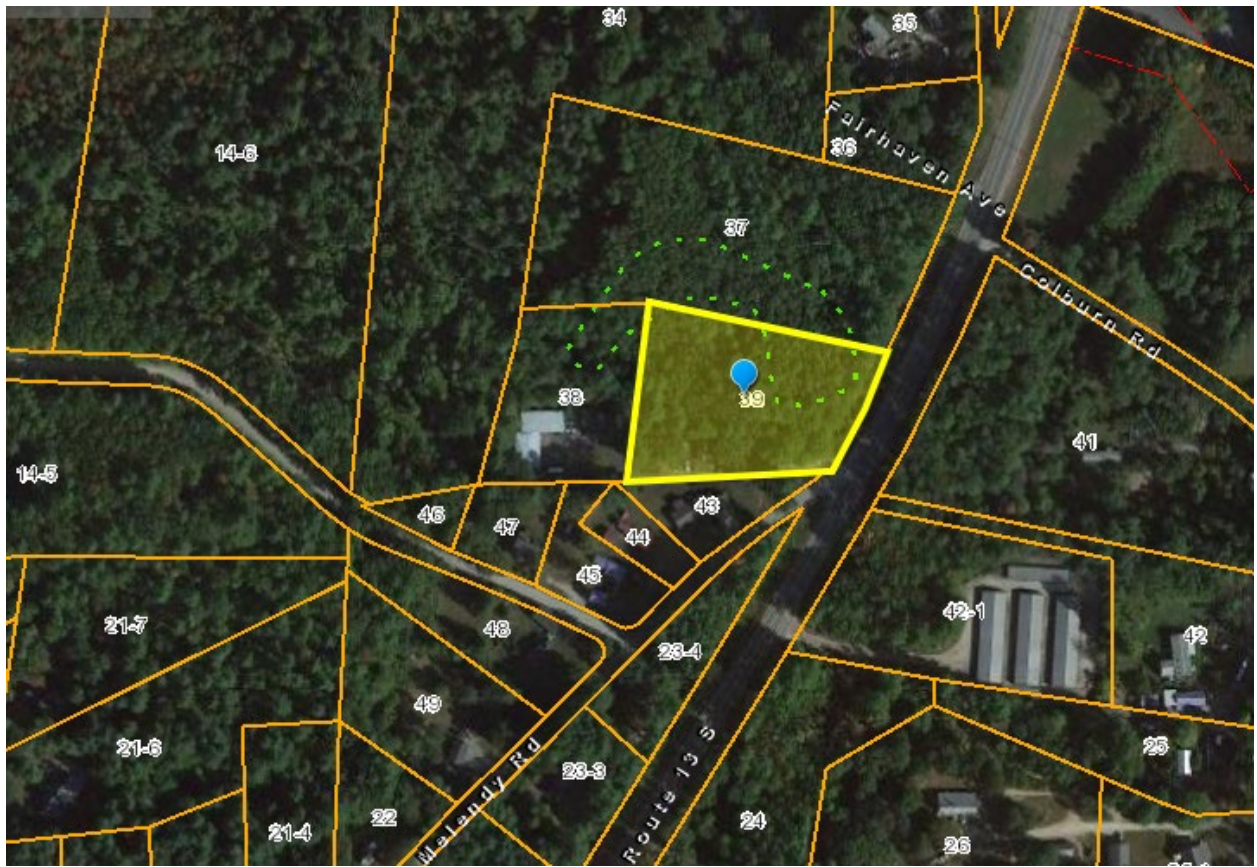
Conditional Use Permit Questions/Comments

1. Please explain if the proposed Home Industry will include outdoor areas storage of materials and equipment. If yes, all activities, equipment, and storage shall be permanently screened from the view of abutters and from public ways by buffers such as year round vegetation, fences, and/or topography. The site plan may need to be amended to reflect/incorporate the required screening.
2. The applicant will need to explain what (if any) hazardous, flammable or explosive substances will be stored or used in association with the proposed business. In addition, the property is subject to the Groundwater Level 1 Protection Area which restricts the use of regulated substances such as petroleum, petroleum products, and substances listed under 40 CFR 302 (as amended).
3. The applicant states that there will be a maximum of 3 company vehicles on the site associated with the business. Given the type of business and hours of operation, the three additional vehicles will have minimal affect the character of area. However, given proximity of the proposed home industry to the abutting residential property across the roadway, the Board should discuss if year round visual mitigation is needed to manage vehicle head lights.

STAFF RECOMMENDATIONS:

The applicant should be prepared to address the comments raised by the Planning Board, Conservation Commission, Heritage Commission, Town Consultants, Staff, and public pertaining to the Conditional Use Permit. If the Board finds that there is sufficient evidence/information and that the application satisfies both Sections 7.12 and 7.14.3 of the Milford Zoning Ordinance, the Board should approve the Conditional Use Permit. If additional information is needed, the Board should continue the application to the next schedule meeting.

Aerial Photographs of Map 47, Lot 39





TOWN OF MILFORD RECEIVED
DEC 15 2020
ZBA _____ Office _____

FOR CONDITIONAL USE PERMIT APPLICATIONS ONLY

Before the Planning Board considers the approval of an application for a Conditional Use Permit, the applicant shall prove to the satisfaction of the Planning Board that all the following conditions have been met:

A. Is the property in conformance with the dimensional requirements of the zone or has it been determined to be legally non-conforming? No, Has not been determined

B. Is the proposed use consistent with the Milford Master Plan? NA Yes No

C. Does the proposal meet the requirements of the ordinance under which the application is proposed? Yes, as a Home Industry

D. Does the applicant agree there will be no significant adverse impacts resulting from the proposed use upon the public health, safety and general welfare of the neighborhood and the Town of Milford? If no, please explain. Yes No

E. Does the applicant agree the proposed use will not be more objectionable to nearby properties by reason of noise, fumes, vibration or inappropriate lighting than any use of the property permitted under the existing zoning district ordinances? If no, please explain. Yes No

F. Does the applicant agree the proposed use will not adversely affect the areas of the Groundwater Protection District as defined in Section 6.010 of the Zoning Ordinance? If no, please explain. Yes No

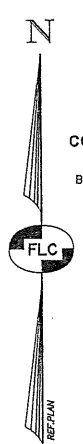
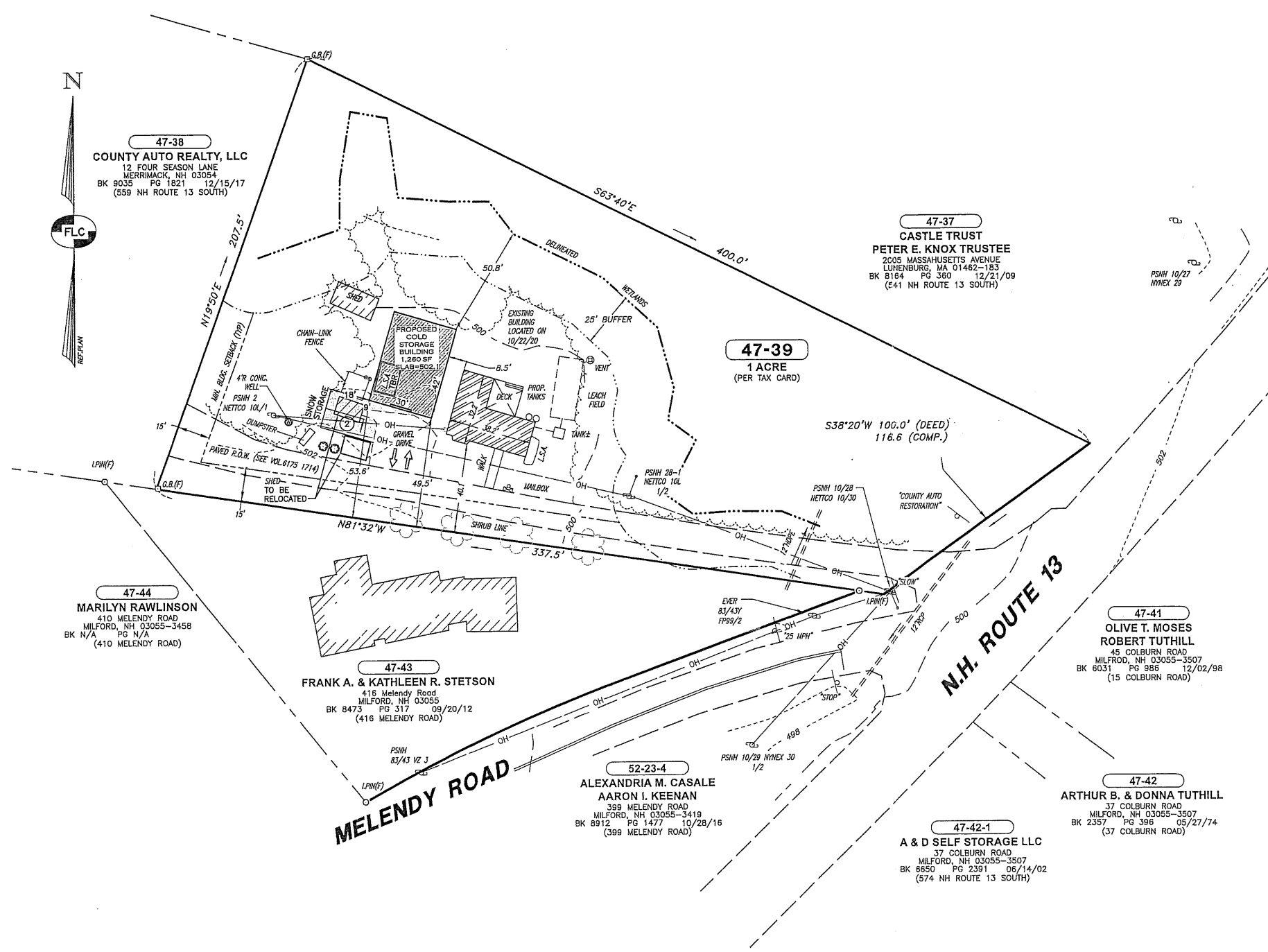


Conditional Use Permit

We are applying for a Home Industry based business. The use of the building proposed will be primarily used for the storage of heating and cooling equipment, including work vehicle. We are a residential installation and service company that conducts remotely. Business consists of 2 employees and 2 owners, none of which work on location. We plan to have up to 3 company vehicles on location at one time. Business hours are 7am-5pm Mon-Fri. Delivery's would be up to 3 per week during business hours. We do not plan on doing signage, however would like to be permitted up to 4sqft of signage for possible future.

Best Regards,

Zachary Clark, Owner



47-38
COUNTY AUTO REALTY, LLC
 12 FOUR SEASON LANE
 MERRIMACK, NH 03054
 BK 9035 PG 1821 12/15/17
 (559 NH ROUTE 13 SOUTH)

47-37
CASTLE TRUST
PETER E. KNOX TRUSTEE
 2005 MASSACHUSETTS AVENUE
 LUNENBURG, MA 01462-1833
 BK 8184 PG 380 12/21/09
 (E41 NH ROUTE 13 SOUTH)

47-39
1 ACRE
 (PER TAX CARD)

47-44
MARILYN RAWLINSON
 410 MELENDY ROAD
 MILFORD, NH 03055-3458
 BK N/A PG N/A
 (410 MELENDY ROAD)

47-43
FRANK A. & KATHLEEN R. STETSON
 416 Melendy Road
 MILFORD, NH 03055
 BK 8473 PG 317 09/20/12
 (416 MELENDY ROAD)

52-23-4
ALEXANDRIA M. CASALE
AARON I. KEENAN
 399 MELENDY ROAD
 MILFORD, NH 03055-3419
 BK 8912 PG 1477 10/28/16
 (399 MELENDY ROAD)

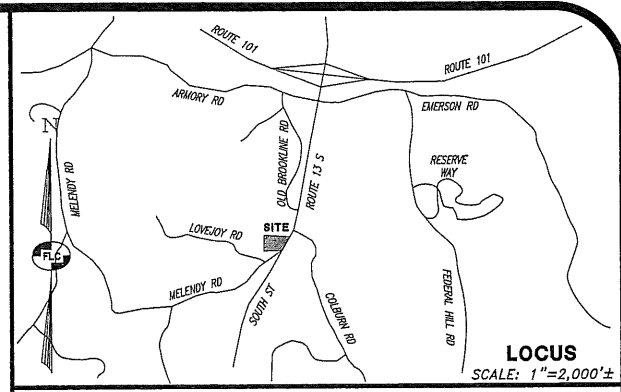
47-42-1
A & D SELF STORAGE LLC
 37 COLBURN ROAD
 MILFORD, NH 03055-3507
 BK 8850 PG 2391 05/14/02
 (574 NH ROUTE 13 SOUTH)

47-41
OLIVE T. MOSES
ROBERT TUTHILL
 45 COLBURN ROAD
 MILFORD, NH 03055-3507
 BK 6031 PG 986 12/02/98
 (15 COLBURN ROAD)

47-42
ARTHUR B. & DONNA TUTHILL
 37 COLBURN ROAD
 MILFORD, NH 03055-3507
 BK 2357 PG 396 05/27/74
 (37 COLBURN ROAD)

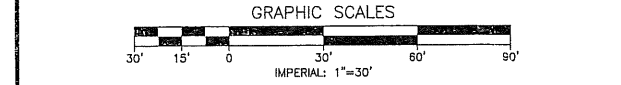
- LEGEND:**
- EXISTING FEATURES**
- RIGHT-OF-WAY LINE
 - BOUNDARY LINE
 - - - ABUTTING LOT LINE
 - - - BUILDING SETBACK LINE
 - - - EDGE OF PAVED ROAD
 - - - STONE WALL
 - - - EDGE OF TREE LINE
 - - - 500' 10' CONTOUR INTERVAL
 - - - 502' 2' CONTOUR INTERVAL
 - - - CHAINLINK FENCE
 - - - OH OVERHEAD UTILITY LINE
 - - - W WATER LINE
 - - - S SEWER LINE
 - D.H.(F) DRILL HOLE FOUND
 - LPN(F) IRON PIN FOUND
 - LPPE(F) IRON PIPE FOUND
 - P.K.(F) P.K. NAIL FOUND
 - UTILITY POLE & GUY WIRE
 - CATCH BASIN (SQUARE)
 - SEWER MAN-HOLE
 - WATER HYDRANT
 - WATER VALVE
 - WATER SHUT-OFF
 - WELL
 - SINGLE SIGN POST
 - TAX MAP & LOT NUMBER
 - ▨ BUILDING

- PROPOSED FEATURES**
- EDGE OF GRAVEL/PAVEMENT
 - LIMITS OF CLEARING
 - ▨ GRAVEL/PAVED AREA
 - ▨ BUILDING
 - ▨ PROPOSED EASEMENT
 - WALL LIGHT
 - TRAFFIC FLOW (NOT PAINTED ARROWS) TO BE REMOVED
 - TBR
- LANDSCAPING LEGEND:**
- ILEX GLABRA
 - "INKBERRY HOLLY" OR EQUAL
 - (2) 2.5'-3'



- NOTES:**
- THE OWNER OF RECORD FOR TAX MAP LOT 47-39 IS ZACHARY J. CLARK - 557 ROUTE 13 SOUTH, MILFORD, NH 03055. DEED REFERENCE TO LOT IS BK.8970 PG.100, DATED 5/10/17 IN THE H.C.R.D.
 - ZONING FOR THE PARCEL IS THE RESIDENCE "R". MINIMUM REQUIREMENTS ARE:
 MIN. LOT AREA 2 ACRES OR 87,120 SQ.FT FOR A SINGLE FAMILY DWELLING
 MIN. LOT FRONTAGE 200 FT FOR A SINGLE FAMILY DWELLING
 MIN. FRONT SETBACK 30 FT
 MIN. SIDE SETBACK 15 FT
 MIN. REAR SETBACK 15 FT
 ACCESSORY STRUCTURES SETBACK 6 FT (>120 SQ.FT. STRUCTURES)
 MAX. BUILDING HEIGHT 35 FT
 OPENSOURCE FOR EACH LOT 30 %
 - THE SUBJECT PARCEL IS NOT LOCATED IN A FLOOD HAZARD AREA AS DETERMINED FROM THE FLOOD INSURANCE STUDY (FIRM), HILLSBOROUGH COUNTY, TOWN OF MILFORD, NEW HAMPSHIRE, COMMUNITY NO. J30096, PREPARED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY, MAP NUMBER: J3011004700, DATED: SEPTEMBER 25, 2009.
 - THE SITE LIES WITHIN THE GROUNDWATER PROTECTION DISTRICT ON A LEVEL I PROTECTION AREA PER THE "GROUNDWATER PROTECTION AREA: MILFORD, NH" MAP PREPARED BY NASHUA REGIONAL PLANNING COMMISSION TO THE TOWN OF MILFORD, NH, DATED 10/24/02.
 - THE SITE IS SUBJECT TO A RIGHT-OF-WAY DESCRIBED AT BOOK 6175 PAGE 1714 IN THE HILLSBOROUGH COUNTY REGISTRY OF DEEDS.

- PROPOSED NOTES:**
- THE PURPOSE OF THIS PLAN IS TO DEPICT A 1,260 SF PROPOSED COLD STORAGE BUILDING AND ASSOCIATED SITE IMPROVEMENTS ON EXISTING TAX MAP LOT 47-39.
 - ALL EXTERIOR LIGHTING SHALL BE DOWNCAST PER THE MILFORD DEVELOPMENT REGULATIONS.
 - MINIMUM "OPEN SPACE" AREA REQUIRES 30% OF TOTAL LOT AREA (13,068 S.F. OR 0.30 ACRES). THIS SITE PLAN PROVIDES 34,851 S.F. (0.800 ACRES) OR 80% OF THE TOTAL PARCEL AS OPEN SPACE.
 - THERE IS NO PROPOSED PROJECT SIGNAGE AT THIS TIME. FUTURE SIGNAGE WILL REQUIRE PERMITTING PRIOR TO INSTALLATION.
 - PARKING CALCULATION**
 WHOLESALE, STORAGE AND WAREHOUSE = 1 PARKING SPACE PER 1,000 SF
 REQUIRED = 1,260 SF / 1,000 SF = 1.26 SPACES = 2 SPACES
 PROVIDED = 2 SPACES
 - THE PROPOSED BUILDING IS SUBJECT TO POLICE IMPACT FEES WHICH ARE TO BE DETERMINED AT THE TIME OF BUILDING PERMIT APPLICATION.
 - HOURS OF OPERATION FOR THE PROPOSED FACILITY SHALL BE 7:00 AM TO 5:00 PM MONDAY THROUGH FRIDAY.
 - THE TOTAL AREA OF DISTURBANCE IS 1,740± SF.
 - EXISTING FOLIAGE SHALL PROVIDE LANDSCAPING BUFFERS TO ADJACENT PROPERTIES ALONG WITH ADDITIONAL SHRUBS AS SHOWN.
 - TRASH DISPOSAL FOR THE STORAGE BUILDING SHALL BE PROVIDED BY EXISTING DUMPSTERS.



REV.	DATE	DESCRIPTION	C/O	DR	CK

SITE PLAN
TAX MAP 47 LOT 39
(557 ROUTE 13 SOUTH)
MILFORD, NEW HAMPSHIRE
 PREPARED FOR AND LAND OF:
ZACHARY CLARK
 577 ROUTE 13 SOUTH, MILFORD, NH 03055

SCALE: 1" = 30' DECEMBER 18, 2020

Surveying ♦ Engineering ♦ Land Planning ♦ Permitting ♦ Septic Designs

FIELDSTONE
 LAND CONSULTANTS, PLLC

206 Elm Street, Milford, NH 03055
 Phone: (603) 672-5456 Fax: (603) 413-5456
 www.FieldstoneLandConsultants.com

CONTACT DIG SAFE
 72 HOURS PRIOR
 TO CONSTRUCTION
DIGSAFE.COM
 OR DIAL 8 1 1
 CALL 811 - KNOW WHAT'S BELOW

REFERENCE PLAN:
 "BOUNDARY LINE AGREEMENT PLAN - LANDS OF: - FRANK A. & KATHLEEN R. STETSON, - MARILYN RAWLINSON AND - GERALDINE SALISBURY - TAX MAP 47 LOTS 43, 44, & 45 - MILFORD, NEW HAMPSHIRE", SCALE: 1"=40', DATED JANUARY 14, 2003, PREPARED BY: MERIDIAN LAND SERVICES, INC. & RECORDED AS PLAN #37624 IN THE H.C.R.D.

OWNER'S SIGNATURE: *[Signature]* DATE: 12/21/2020

TOWN OF MILFORD
 RECEIVED
 DEC 24 2020
 PB ZBA Office

APPROVED
 MILFORD, NH PLANNING BOARD
 SUBDIVISION #: _____
 DATE APPROVED: _____
 SIGNED: _____



October 12, 2020

Zachary Clark
557 Rt.13 South
Milford, NH 03055

Project Name: 20206736 Zachary Clark
Buildings: A->30'-0"x42'-0"x14'-0"(RCG,4.0:12)

Attn.: Zachary Clark
Project Location: Milford, NH 03055
NBG Project #: W2008155A

This Letter of Design Certification ensures that the materials furnished by the metal building supplier are designed in accordance with the information specified to the metal building supplier on the order documents and summarized by the loading information listed below. The Project Engineer of Record (not the metal building supplier) is responsible for verifying that the building code and design loads meet any and all applicable local requirements.

The Professional Engineer whose seal appears on this Letter of Certification is employed by the metal building manufacturer and does not serve as or represent the Engineer of Record for this project and shall not be construed as such.

DESIGN LOAD CRITERIA:

Structural Loads Applied in General Accordance with: IBC 2015
Risk Category: II - Standard Buildings

PROJECT-WIDE LOADING INFORMATION:

Ground Snow Load:	70.0 psf	Snow Exposure Factor, Ce:	1.00	Snow Imp. Factor, Is:	1.00
Roof Live Load:	20.0 psf	Not Reducible Per Code.			
Ultimate Design Wind Velocity:	118 mph	Nominal Design Wind Velocity:	91 mph		
***Components & Cladding Pressures:	31 psf/ -41 psf				
Is Roof to meet UL 90 Requirements?:	No	Wind Exposure:	C		
Seismic Criteria:	Ss: 0.235 S1: 0.076	• 20% of flat roof snow included in seismic calc's.			
Design Sds / Sd1:	0.251/0.122	Analysis Procedure: Equiv. Lat. Force Procedure			
Seis. Imp. Factor, Ie:	1.00	Basic SFRS: Not Detailed For Seismic (Trans)			
Seis. Design Category:	B	Site Class:	D		
			Ord. Steel Cantilevered Col (Long)		

BUILDING-SPECIFIC LOADING INFORMATION:

Bldg	Roof Dead	Collateral Dead		Snow Coefficient		Snow Load (psf)		Wind		Seismic		
	(psf)*	Pri (psf)	Sec (psf)	Ct	Cs	Ps (psf)	**Pm (psf)	Enclosure	GCpi	R	Cs	V (kips)
A	3.0	1.0	1.0	1.0	1.00	49.00	---	Enclosed	± 0.18	1.25	0.201	3.47

*Primary Structural Not Included

** P_m is based on the minimum roof snow load calculated per building code or the contract-specified roof snow load, whichever is greater. This value, P_m , is only applied in combination with Dead and Collateral Loads. Roof Snow in other loading conditions is determined per the specified Building Code.

***Ultimate Design wind pressures to be used for wall exterior component and cladding materials not provided by Metal Building Supplier

Mezzanine Information:

Floor Dead Load: N/A Floor Collateral Load: N/A Floor Live Load: N/A

Crane Information:

No cranes on building.

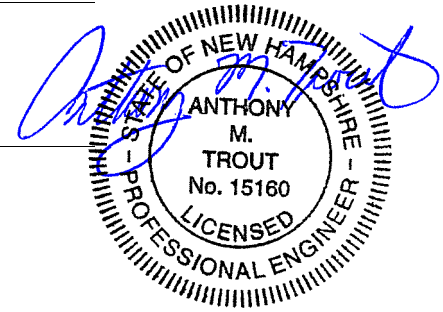
Roof-Top Unit Information

No roof-top units on building.

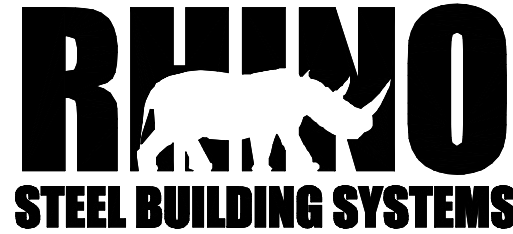
The design of structural members supporting roof gravity loads is controlled by the more critical effect of roof live load or roof snow applied in accordance with the governing building code.

DESIGN STANDARDS REFERENCED:

- AISC Specification for Structural Steel Buildings - Steel Construction Manual, 14th Edition, © 2010.
- AISI North-American Specification for the Design of Cold-Formed Steel Structures, © 2012 Edition.
- IBC codes are designed in accordance with ASCE7-10 Edition.
- MBMA Low Rise Building Systems Manual, Latest Edition.
- AWS Latest Edition of Structural Welding Code.
- No buyout structural components provided on this project.



10/14/2020



PROJECT NUMBER: W2008155A
 PROJECT NAME: 20206736 Zachary Clark
 PROJECT LOCATION: Milford, NH 03055
 CUSTOMER: Zachary Clark

Notes and Specifications

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 metal building system in conformance with these drawings, OSHA requirements and either MBMA or CSA S16 standards pertaining to proper erection. This includes, but is not limited to, the correct use of temporary guys and bracing where needed for squaring, plumbing, and securing the structural and secondary framing. Secondary wall framing members (girts or bar joists) are not designed to function as a work platform or provide safety tie-off attachment in accordance with OSHA requirements. Secondary roof framing members (purlins or bar joists) are not designed to provide safety tie-off attachment in accordance with OSHA requirements.
- A325 & A490 Bolt Tightening requirements:**
It is the responsibility of the erector to ensure proper bolt tightness in accordance with applicable regulations. See the **RCSA Specification for Structural Joints Using A325 or A490 Bolts** 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.
D) Secondary members (purlins, girts, opening framing, etc.) and flange brace connections may always be "snug-tight", unless indicated otherwise in these drawings.
- The metal building supplier shall be notified prior to any field modifications. Modifications shall be approved by the metal building supplier before work is undertaken.
- Common Abbreviations:
a) TYP UNO - Typical Unless Noted Otherwise
b) SLV - Short Leg Vertical
c) LLV - Long Leg Vertical
d) NS & FS - Near Side and Far Side
e) O.A.L. - Overall Length
f) SIM - Similar
g) NIC - Not in Contract
h) SL - Steel Line
i) N/A - Not Applicable
j) MBS - Metal Building Supplier
- Construction loads shall not be placed on any structural steel framework unless such framework is safely bolted, welded, or otherwise adequately secured.
- Purlins and girts shall not be used as an anchorage point for a fall arrest system unless written approval is obtained from the metal building supplier.
- Purlins may only be used as a walking/working surface when installing safety systems, after all permanent bridging has been installed and fall protection is provided.
- Construction loads may be placed only within a zone that is within 8 feet of the center line of the primary support member. CFR bundles should be placed directly over the rigid frames.
- All lifting devices must meet OSHA or MSHA standards and in no case is it acceptable to use structural members supplied by the MBS as a spreader bar or lifting device.

General Design Notes

- 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.
- 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.
- All cold formed members are designed in accordance with ANSI/AISI S100 or CAN/CSA S136 "Specifications for the Design of Cold Formed Steel Structural Members", as required by the specified building code.
- 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.
- The Metal Building Manufacturer is IAS AC-472 Accredited and if applicable, CAN/CSA A660 and W47.1 Certified for the design and manufacturing of Metal Building Systems.
- If joints 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 the OSHA safety standards for steel erection, dated January 18, 2001.

Material Specifications

Plate and Flange Material:
 5" - 12" Wide, to 1 1/4" Th. _____ A529 Grade 55
 Others _____ A572 Grade 50

Built-Up Structural Web _____ A1011 SS (or HSLAS Class 1) Grade 55
 Hot-Rolled Structural _____ A36 or A572 Grade 50 or A992 Grade 50
 Structural Tube _____ A500 Grade B (46 KSI)
 Structural Pipe _____ A500 Grade B (42 KSI)
 Cold-Formed Structural _____ A1011 or A1039 SS (or HSLAS Class 1) or A653 Grade 55
 Thru-Fastened Roof Panel _____ A792 Grade 80
 Standing Seam Roof Panel _____ A792 Grade 50, Class 1
 All Wall Panel Profiles _____ A653 Grade 80, Class 1 or A792 Grade 80, Class 1
 Rod Bracing _____ A529 Grade 50
 Welds _____ AWS D1.1/D1.3 or CSA W59 per Building Code
 High-Strength Bolts _____ A325 Type 1 or A490 Type 1 Heavy Hex
 Machine Bolts _____ A307 Grade A Hex

PRIMARY AND SECONDARY STEEL PRIMER COLOR: RED

ROOF SHEETING, TYPE: CR 26 GAUGE, FINISH: Fox Gray SP

ROOF PANEL CLIP TYPE: N/A

THERMAL BLOCKS: No EPS FOAM SPACER: No

COMPOSITE CFR DECK, TYPE: N/A GAUGE, FINISH: _____

ROOF LINE TRIM, PAINTED: Polar White SP

EXTERIOR WALL SHEETING, TYPE: CW 26 GAUGE, FINISH: Aztec Blue SP

EXTERIOR WALL CORNER TRIM FINISH: Polar White SP

EXTERIOR BASE TRIM, PAINTED: Aztec Blue SP

FRAMED OPENING TRIM, PAINTED: Polar White SP

WALL FRAMED OPENING, SIZES: FSW (1) 3'-0" x 3'-0"
 BSW (1) 8'-0" x 8'-0", (1) 3'-0" x 3'-0"
 LEW (1) 10'-0" x 12'-0"
 REW none

INTERIOR WALL SHEETING, TYPE: _____ GAUGE, FINISH: _____

INTERIOR CEILING LINER, TYPE: _____ GAUGE, FINISH: _____

INTERIOR WALL TRIM, PAINTED: _____

YES NO

DOWNSPOUTS PAINTED: _____ GUTTERS PAINTED: _____

WALKDOORS, QUANTITY: (2) 3070KD PAINTED: Polar White SP

WINDOWS: _____ PAINTED: _____

INSULATION (NOT BY MBS), ROOF: 6 INCH WALLS: 4 INCH

CRANES (SEE CRANE PLAN FOR ADDITIONAL CRANE INFORMATION)

MEZZANINE (SEE MEZZANINE PLAN FOR ADDITIONAL MEZZANINE INFO)

WALL TRANSLUCENT PANELS: _____

ROOF TRANSLUCENT PANELS: _____

INSULATED PANELS YES NO

PIPE JACKS, SIZE: _____ QUANTITY: _____

ROOF FRAMED OPENINGS, SEE ROOF FRAMING PLAN FOR SIZES

RIDGE VENTS, 10'-0" LONG X 9" THROAT. QUANTITY: _____

FOR OCCUPANCY (RISK) CATEGORY I OR II, IBC PROVISIONS INDICATE THAT SINGLE-STORY BUILDINGS SHALL HAVE "NO DRIFT LIMIT" PROVIDED THAT INTERIOR WALLS, PARTITIONS, CEILINGS, AND EXTERIOR WALL SYSTEMS HAVE BEEN DESIGNED TO ACCOMMODATE THE SEISMIC STORY DRIFTS. INTERIOR WALLS, PARTITIONS, CEILINGS, OR EXTERIOR WALL SYSTEMS NOT PROVIDED BY THE METAL BUILDING MANUFACTURER SHALL BE DESIGNED AND DETAILED BY OTHERS TO ACCOMMODATE THE SEISMIC STORY DRIFTS. SEISMIC DRIFT VALUES MAY BE OBTAINED FROM THE METAL BUILDING MANUFACTURER.

THIS BUILDING SYSTEM DESIGN IS BASED ON UNIFORMLY APPLYING THE CONTRACT-SPECIFIED LIVE LOAD AND ROOF SNOW LOAD. IN ADDITION, THE DESIGN IS BASED ON APPLYING A CODE-DEFINED LIVE LOAD AND A CODE-DEFINED SNOW LOAD (BASED ON CONTRACT-SPECIFIED GROUND SNOW) FOR ALL PARTIAL LOADING AND UNBALANCED SNOW LOAD CONDITIONS.

THE BUILDING CODE REQUIRES CONSIDERATION OF SNOW SURCHARGES FOR ANY LOWER ROOF OF A STRUCTURE LOCATED WITHIN 20 FT. OF A HIGHER STRUCTURE. INFORMATION PROVIDED TO THE METAL BUILDING MANUFACTURER DOES NOT INDICATE THE PRESENCE OF A SHADOWING STRUCTURE WITHIN THIS 20 FT. ENVELOPE, THEREFORE SNOW SURCHARGES HAVE NOT BEEN CONSIDERED IN THE DESIGN.

ACCESSORIES (DOORS, WINDOWS, ETC.) NOT PROVIDED BY THE METAL BUILDING MANUFACTURER MUST BE DESIGNED AS "COMPONENTS AND CLADDING" IN ACCORDANCE WITH THE SPECIFIC WIND PROVISIONS OF THE REFERENCED BUILDING CODE DISPLAYED ON THE COVER PAGE OF THIS DRAWING PACKET.

YES NO

FASCIA, PROJECTION: _____ TOP OF FASCIA HEIGHT: _____

FACE PANEL, TYPE: _____ GAUGE, FINISH: _____

BACK PANEL, TYPE: _____ GAUGE, FINISH: _____

CAP TRIM PAINTED: _____ BASE TRIM PAINTED: _____

CLOSED SYSTEM, CLEAR UNDER SOFFIT TRIM:
 SOFFIT PANEL, TYPE: _____ GAUGE, FINISH: _____
 SOFFIT TRIM AT BUILDING LINE PAINTED: _____

OPEN SYSTEM, (NO SOFFIT PANEL PROVIDED)
 CLEAR UNDER FASCIA: _____

PARAPET SYSTEM
 STRUCTURAL PARAPET NON-STRUCTURAL PARAPET
 TOP OF PARAPET HEIGHT: _____
 BACKER PANEL, TYPE: _____ GAUGE, FINISH: _____

CANOPY, PROJECTION: _____
 AT EAVE LINE BELOW EAVE
 ROOF PANEL, TYPE: _____ GAUGE, FINISH: _____
 SOFFIT PANEL, TYPE: _____ GAUGE, FINISH: _____
 SOFFIT TRIM AT BUILDING LINE PAINTED: _____
 CLEAR UNDER CANOPY BEAM: _____

EAVE EXTENSION, PROJECTION: _____
 SOFFIT PANEL, TYPE: _____ GAUGE, FINISH: _____
 SOFFIT TRIM AT BUILDING LINE PAINTED: _____

RAKE EXTENSION, PROJECTION: _____
 SOFFIT PANEL, TYPE: _____ GAUGE, FINISH: _____
 SOFFIT TRIM AT BUILDING LINE PAINTED: _____

PARTITION WALL SHEETING
 PANEL TYPE: _____ GAUGE, FINISH: _____
 PARTITION WALL TRIM COLOR: _____

WAINSCOT
 WALL PANEL, TYPE: _____ GAUGE, FINISH: _____
 BASE TRIM PAINTED: _____ JAMB TRIM PAINTED: _____
 TRANSITION TRIM PAINTED: _____

ERECTOR NOTE:

ALTERNATE FASTENERS HAVE BEEN SUBSTITUTED ON THIS BUILDING. WHERE THE DRAWINGS INDICATE AN H1040 STRUCTURAL FASTENER, H1041 FASTENERS WITH WASHERS HAVE BEEN SUPPLIED. WHERE THE DRAWINGS INDICATE AN H1060 TRIM FASTENER, H1061 FASTENERS WITH WASHERS HAVE BEEN SUPPLIED.

FRAMED OPENINGS HAVE BEEN DESIGNED TO SUPPORT WIND LOAD NORMAL TO THE WALL BASED ON THE STANDARD BUILDING CODE CRITERIA. FRAMED OPENINGS HAVE NOT BEEN DESIGNED FOR ANY ADDITIONAL MOMENT OR CATENARY FORCES FROM THE DOOR. ANY CHANGE TO THE INFORMATION SHOWN HERE WILL REQUIRE AN ENGINEERING INVESTIGATION AND POSSIBLE BUILDING REINFORCEMENT.

IF SNOW GUARDS OR OTHER DEVICES INTENDED TO HOLD SNOW AND/OR ICE ACCUMULATION ON THE ROOF SYSTEM ARE TO BE USED ON THIS PROJECT, THEY MUST BE INSTALLED UNDER THE GUIDANCE OF THE PROJECT "ENGINEER OF RECORD" (EOR), NOT THE METAL BUILDING MANUFACTURER, SO AS NOT TO EXCEED THE DESIGN ROOF SNOW LOAD ON THIS PROJECT.

BUILDING LOADS

DESIGN CODE: IBC 2015

ROOF LIVE LOAD: 20.00 PSF MBMA OCC. CLASS: II
 LIVE LOAD REDUCIBLE No

GROUND SNOW LOAD: 70.0 PSF SNOW EXP. FACTOR, Ce: 1.00
 SNOW IMPORTANCE FACTOR, Is: 1.00

WIND: 118 / 91 MPH
 (Vult) / (Vasd)

C & C PRESSURES (PSF): 31 / -41
 EXPOSURE: C
 UL 90 NO

Classic Roof-Const. No.161 ; Classic Roof w/ Translucent Panel-Const. No.167
 CFR Roof-Const. No.552 ; CFR Roof w/ Translucent Panel-Const. No.590 ;
 Composite CFR Roof-Const. No.552A ; VR16 II Roof-Const. No.332 .

SEISMIC INFORMATION Ss: 0.235 S1: 0.076
 Design Sds/Sd1: 0.251 / 0.122 Site Class: D
 Seismic Imp. Factor: 1.00 Seismic Design Category: B
 Analysis Procedure: Equivalent Lateral Force Method
 Basic SFRS: Not Detailed for Seismic (Trans)
Ord. Steel Centilevered Col (Long)

NOTES:

- 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 500 POUNDS (USING THE WEB MOUNT DETAIL) OR 200 POUNDS (USING THE FLANGE MOUNT DETAIL), OR IF INDIVIDUAL MEMBERS ARE LOADED SIGNIFICANTLY MORE THAN OTHERS.
- 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.
- Pm IS BASED ON THE MINIMUM ROOF SNOW LOAD CALCULATED PER BUILDING CODE OR THE CONTRACT SPECIFIED SNOW LOAD, WHICHEVER IS GREATER. THIS VALUE, Pm, IS ONLY APPLIED IN COMBINATION WITH THE DEAD AND COLLATERAL LOADS. ROOF SNOW IN OTHER LOADING CONDITIONS IS DETERMINED PER THE SPECIFIED BUILDING CODE.

BUILDING	
ROOF DEAD (PSF):	<u>3.00</u>
PRJ. COL (PSF):	<u>1.00</u>
SEC. COL (PSF):	<u>1.00</u>
SNOW Ct:	<u>1.00</u>
SNOW Cs:	<u>1.00</u>
ROOF SNOW Ps (PSF):	<u>49.00</u>
ROOF SNOW Pm (PSF):	----
WIND ENCLOSURE:	<u>Closed</u>
Gcpi:	<u>0.18</u>
SEISMIC R:	<u>1.25</u>
SEISMIC Cs:	<u>0.201</u>
BASE SHEAR (KIPS):	<u>3.47</u>

ERECTION MANUALS REQUIRED
 (ERECTION MANUALS ARE SHIPPED WITH THE BUILDING IN A WAREHOUSE PACKING CRATE)

CFR ROOF H9700 OR H8260 SINGLE CURB (H9850)
 CLASSIC ROOF H9420 OR H8201 DOUBLE CURB (H9800)
 VR16 II (H9925)

DRAWING INDEX

COVERSHEET	<u>C1</u>
ANCHOR BOLT DRAWINGS	<u>F1, F2</u>
COLUMN BASE REACTIONS	<u>R1</u>
STRUCTURAL/SHEETING DRAWINGS	<u>E1 - E6</u>
DETAILS	_____

PROJECT NAME: 20206736 ZACHARY CLARK
 557 RT. 13 SOUTH, MILFORD, NH 03055
 CUSTOMER NAME: ZACHARY CLARK
 MILFORD, NH 03055
 JOB NUMBER: W2008155A
 SHEET TITLE: _____

DATE: 10/12/2020

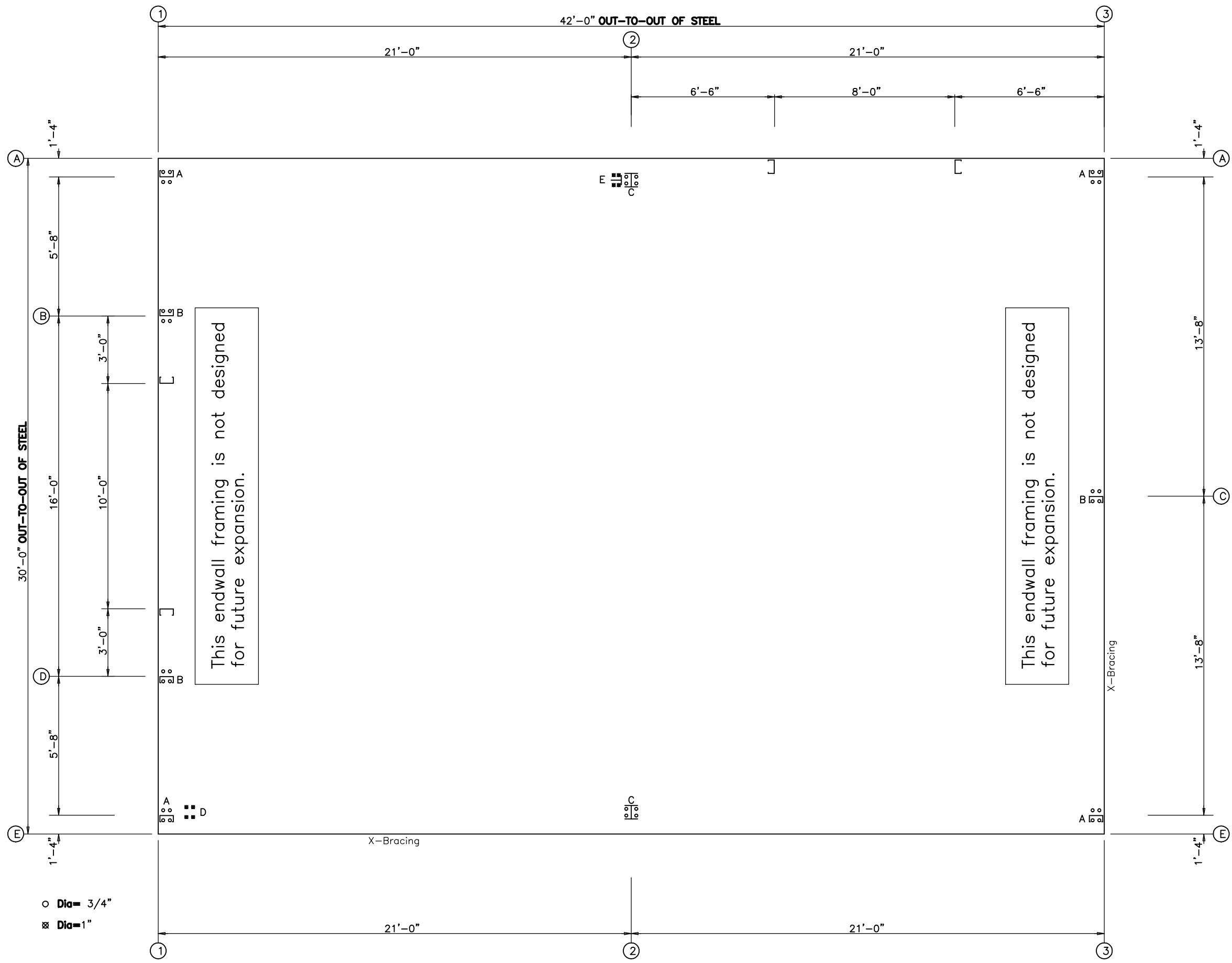
PERMITS: _____

RHINO STEEL BUILDING SYSTEMS
 4305 I-35 NORTH DENTON, TX 76207
 PHONE: (940) 383-9566
 (888) 320-7466
 FAX: (940) 484-6746

PROFESSIONAL ENGINEER
 ANTHONY M. TROUT
 No. 15160
 10/14/2020

THIS DRAWING IS THE PROPERTY OF RHINO STEEL BUILDING SYSTEMS. IT IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREON. IT IS NOT TO BE REPRODUCED, COPIED, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF RHINO STEEL BUILDING SYSTEMS.

C1 of 1



ANCHOR BOLT SUMMARY				
Qty	Locate	Dia (in)	Type	Proj (in)
○ 28	Endwall	3/4"	F1554	3.00
○ 8	Frame	3/4"	F1554	3.00
⊗ 4	WindCol	1"	F1554	3.00
⊗ 4	WindBent	1"	F1554	3.00

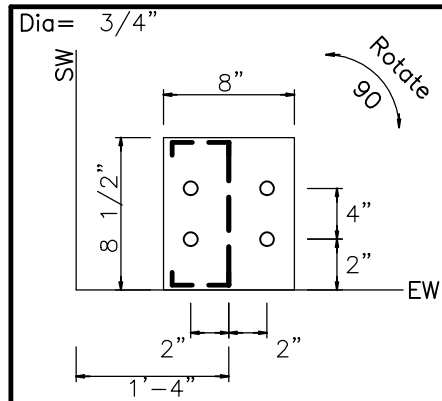
ANCHOR BOLT PLAN

GENERAL NOTES

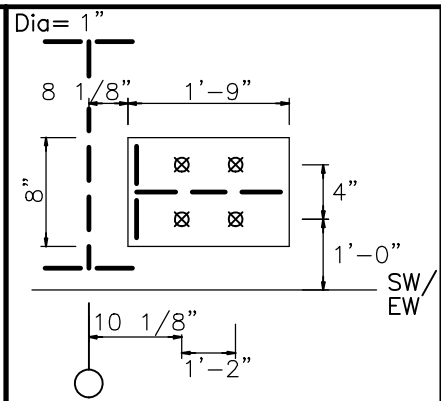
1. THE SPECIFIED ANCHOR ROD DIAMETER ASSUMES F1554 GRADE 36 UNLESS NOTED OTHERWISE. ANCHOR ROD MATERIAL OF EQUAL DIAMETER MEETING OR EXCEEDING THE STRENGTH REQUIREMENTS SET FORTH ON THESE DRAWINGS MAY BE UTILIZED AT THE DISCRETION OF THE FOUNDATION DESIGN ENGINEER. ANCHOR ROD EMBEDMENT LENGTH SHALL BE DETERMINED BY THE FOUNDATION DESIGN ENGINEER.
2. METAL BUILDING MANUFACTURER 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 EMBEDMENT PLATES ARE NOT BY METAL BUILDING MANUFACTURER.
4. THIS DRAWING IS NOT TO SCALE.
5. FINISHED FLOOR ELEVATION = 100'-0" UNLESS NOTED OTHERWISE.
6. "SINGLE" CEE COLUMNS SHALL BE ORIENTED WITH THE "TOES" TOWARD THE LOW EAVE UNLESS NOTED OTHERWISE.
7. ANCHOR RODS ARE REQUIRED ONLY IN THE QUANTITIES SPECIFIED. BASEPLATES MAY BE FABRICATED WITH MORE HOLES THAN NEEDED FOR THIS PROJECT.
8. THE ANCHOR BOLT LOCATIONS PROVIDED BY METAL BUILDING MANUFACTURER SATISFY PERTINENT REQUIREMENTS FOR THE DESIGN OF THE MATERIALS SUPPLIED BY THE METAL BUILDING MANUFACTURER. PLEASE NOTE THAT THESE REQUIREMENTS MAY NOT SATISFY ALL ANCHOR BOLT CONCRETE EDGE DISTANCE REQUIREMENTS DEPENDING ON THE DETAILS OF THE FOUNDATION DESIGN. BECAUSE FOUNDATION DESIGN IS NOT WITHIN THE METAL BUILDING MANUFACTURER'S SCOPE OF WORK, IT IS THE RESPONSIBILITY OF THE QUALIFIED PROFESSIONAL DESIGNING THE FOUNDATION TO MAKE CERTAIN THAT SUFFICIENT CONCRETE EDGE DISTANCE IS PROVIDED FOR THE ANCHOR BOLTS IN THE DETAILS OF THE FOUNDATION DESIGN.

ANCHOR BOLT PLAN
NOTE: All Base Plates @ 100'-0" (U.N.)

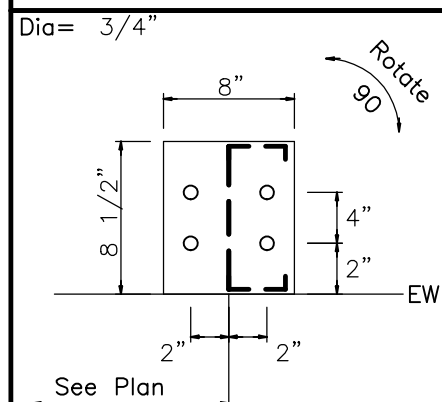
DATE	10/12/2020	ISSUE		PERMITS		MBS		MRS		AMT	
PROJECT NAME	20206736 ZACHARY CLARK			JOB NUMBER	W2008155A						
CUSTOMER NAME	557 RT. 13 SOUTH, MILFORD, NH 03055			SHEET TITLE	ANCHOR BOLT PLAN						
CUSTOMER NAME	ZACHARY CLARK			SHEET NUMBER	F1 of 2						
This drawing is the property of the Metal Building Manufacturer. The drawings and the metal buildings which they represent are the product of the Metal Building Manufacturer. The registered professional engineer whose seal appears on these drawings is employed by the Metal Building Manufacturer and does not serve as or represent the project engineer of record and shall not be construed as such.											



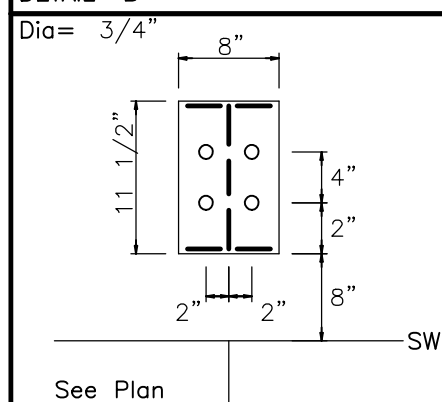
DETAIL A



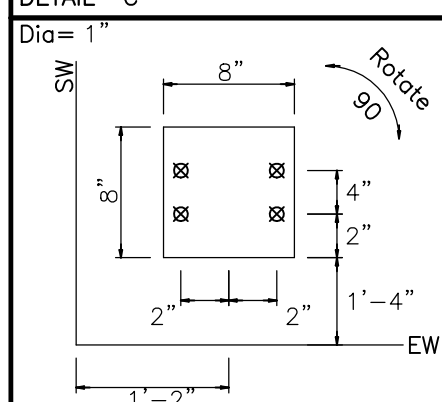
DETAIL E



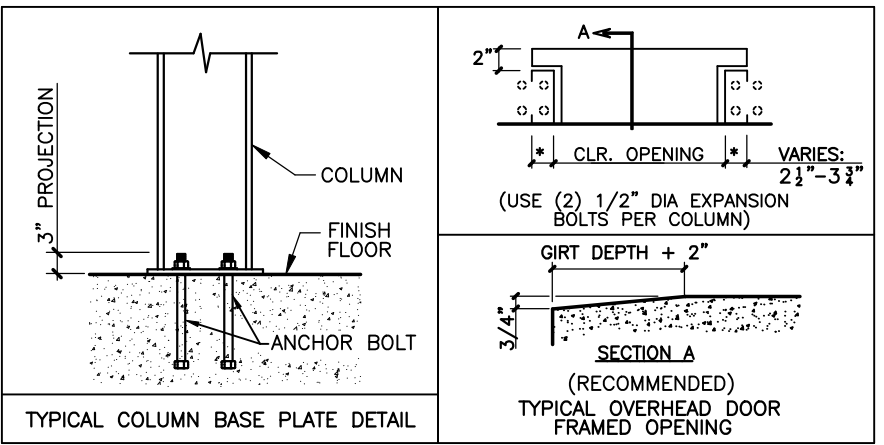
DETAIL B



DETAIL C



DETAIL D



FOUNDATION DESIGN NOTES:

1. THE ORIENTATION OF THE ANCHOR BOLT DETAILS SHOWN ON THIS PAGE MAY NOT COINCIDE WITH THE ACTUAL COLUMN ORIENTATION SHOWN ON THE ANCHOR BOLT DRAWING. PLEASE REFERENCE THE SIDEWALL (SW) AND ENDWALL (EW) STEEL LINES SHOWN ON THE ANCHOR BOLT DETAILS WITH THE ANCHOR BOLT PLAN DURING LAYOUT OF COLUMN AND ANCHOR BOLT LOCATIONS.
2. COLUMN BASE PLATES MAY HAVE MORE HOLES THAN ARE REQUIRED DUE TO PRODUCTION LIMITATIONS. PLEASE FOLLOW ANCHOR BOLT DETAILS FOR QUANTITY OF ANCHOR BOLTS REQUIRED. EXTRA BASE PLATE HOLES DO NOT NEED INFILLED PER THE MBS DESIGN SPECIFICATIONS.

ISSUE	DATE
PERMITS	10/12/2020
MBS	
BRA	
NRS	
AMT	

RHINO STEEL BUILDING SYSTEMS

RHINO
STEEL BUILDING SYSTEMS

4305 I-35 NORTH
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PHONE: (940) 383-9566
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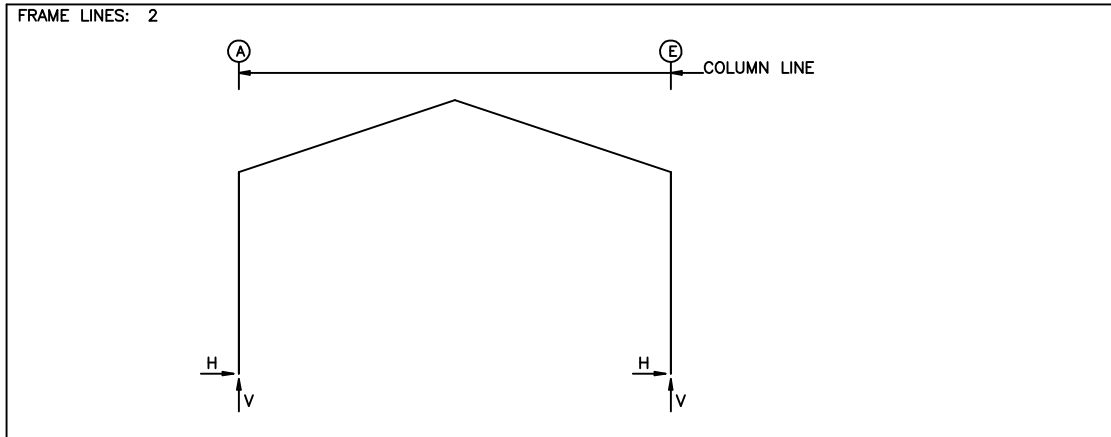
STATE OF NEW HAMPSHIRE

ANTHONY M. TROUT
No. 15160
LICENSED PROFESSIONAL ENGINEER

10/14/2020

This seal certifies only that the registrant has been duly licensed by the State of New Hampshire. It does not constitute a warranty, endorsement, or approval of the quality of the work or the design of the project. The registrant shall not be held responsible for any errors or omissions in the drawings or specifications prepared by the registrant or any other person. The registrant shall not be held responsible for any changes or modifications made to the drawings or specifications after the date of the seal.

SHEET
F2 of 2



RIGID FRAME: ANCHOR BOLTS & BASE PLATES

Frm Line	Col Line	Anc. Bolt Qty	Bolt Dia	Base Plate (in)			Elev. (in)
				Width	Length	Thick	
2	A	4	0.750	8.000	11.50	0.375	0.0
2	E	4	0.750	8.000	11.50	0.375	0.0

ENDWALL COLUMN: ANCHOR BOLTS & BASE PLATES

Frm Line	Col Line	Anc. Bolt Qty	Bolt Dia	Base Plate (in)			Elev. (in)
				Width	Length	Thick	
1	A	4	0.750	8.000	8.500	0.375	0.0
1	B	4	0.750	8.000	8.500	0.375	0.0
1	D	4	0.750	8.000	8.500	0.375	0.0
1	E	4	0.750	8.000	8.500	0.375	0.0
3	E	4	0.750	8.000	8.500	0.375	0.0
3	C	4	0.750	8.000	8.500	0.375	0.0
3	A	4	0.750	8.000	8.500	0.375	0.0

GENERAL NOTES

- ALL LOADING CONDITIONS ARE EXAMINED. THE MAXIMUM AND MINIMUM HORIZONTAL (H) AND VERTICAL (V) REACTIONS AND THE CORRESPONDING VERTICAL (V) OR HORIZONTAL (H) REACTIONS ARE REPORTED.
- REACTIONS ARE PROVIDED BY LOAD CASE IN ORDER TO AID THE FOUNDATION ENGINEER IN DETERMINING THE APPROPRIATE LOAD FACTORS AND COMBINATIONS TO BE USED WITH EITHER WORKING STRESS OR ULTIMATE STRENGTH DESIGN METHODS. WIND LOAD CASES ARE GIVEN FOR EACH PRIMARY WIND DIRECTION.
- FOR ASCE7-10 AND LATER BASED BUILDING CODES, THE UNFACTORED LOAD CASE REACTIONS DUE TO WIND ARE GENERATED USING THE ULTIMATE DESIGN WIND SPEED (V_{ult}).
- POSITIVE (+) REACTIONS ARE AS SHOWN ABOVE. FOUNDATION LOADS ARE IN OPPOSITE DIRECTIONS.
- BRACING REACTIONS ARE IN THE PLANE OF THE BRACE WITH THE HORIZONTAL REACTION (H) ACTING AWAY FROM THE BRACED BAY AND THE VERTICAL REACTION (V) ACTING DOWNWARD.

***** RIGID FRAME LOAD CASE ABBREVIATIONS: *****

Wind_L1/Wind_R1: LATERAL WIND FROM THE LEFT/RIGHT, CASE 1
 Wind_L2/Wind_R2: LATERAL WIND FROM THE LEFT/RIGHT, CASE 2
 Wind_Ln1/Wind_Ln2: LONGITUDINAL WIND, CASE 1/2
 Seismic_L/Seismic_R: LATERAL SEISMIC LOAD FROM LEFT/RIGHT
 LWIND#_L/E/LWIND#_R/E: LONGITUDINAL WIND EDGE ZONES
 F#UNB_SL_L/F#UNB_SL_R: UNBALANCED ROOF SNOW WITH WIND FROM LEFT/RIGHT
 F#PAT_LL #/F#PAT_SL #: PARTIAL LIVE/SNOW LOADING FOR CONTINUOUS BEAM SYSTEMS

***** ENDWALL COLUMN LOAD CASE ABBREVIATIONS: *****

Collat: COLLATERAL LOAD
 Rafter Wind_L/Rafter Wind_R: LATERAL WIND FROM THE LEFT/RIGHT
 Brace Wind_L/Brace Wind_R: LATERAL WIND FROM THE LEFT/RIGHT
 Wind_P/Wind_S: LONGITUDINAL WIND PRESSURE/SUCTION ON COLUMNS
 Wind_Ln: LONGITUDINAL WIND SUCTION ON ROOF
 Seis_L/Seis_R: LATERAL SEISMIC LOAD FROM LEFT/RIGHT
 E#UNB_SL_L/E#UNB_SL_R: UNBALANCED ROOF SNOW WITH WIND FROM LEFT/RIGHT
 E#PAT_LL #/E#PAT_SL #: PARTIAL LIVE/SNOW LOADING FOR CONTINUOUS BEAM SYSTEMS

RIGID FRAME: BASIC COLUMN REACTIONS (k)

Frame Line	Column Line	Dead		Collateral		Live		Snow		Wind_Left1		Wind_Right1	
		Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert
2	A	0.4	1.8	0.1	0.4	2.1	8.3	5.2	20.3	-6.6	-11.7	4.0	-4.7
2	E	-0.4	1.8	-0.1	0.4	-2.1	8.3	-5.2	20.3	-4.0	-4.7	6.6	-11.7

Frame Line	Column Line	Wind_Left2		Wind_Right2		Wind_Long1		Wind_Long2		Seismic_Left		Seismic_Right	
		Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert
2	A	-7.5	-7.8	3.1	-0.8	2.0	-7.9	0.9	-7.4	-0.9	-0.9	0.9	0.9
2	E	-3.1	-0.8	7.5	-7.8	-0.9	-7.4	-2.0	-7.9	-0.9	0.9	0.9	-0.9

Frame Line	Column Line	F1UNB_SL_L		F1UNB_SL_R	
		Horiz	Vert	Horiz	Vert
2	A	4.5	20.9	4.5	11.8
2	E	-4.5	11.8	-4.5	20.9

ENDWALL COLUMN: BASIC COLUMN REACTIONS (k)

Frm Line	Col Line	Dead Vert	Collat Vert	Live Vert	Snow Vert	Wind Left1 Vert	Wind Right1 Vert	Wind Left2 Vert	Wind Right2 Vert	Wind Press Horiz	Wind Suct Horiz	Wind Long1 Vert	Wind Long2 Vert
1	A	0.1	0.1	0.2	0.4	-0.6	-1.4	0.0	-0.8	-0.6	0.8	-1.5	-0.6
1	B	0.7	0.2	3.2	7.8	-3.9	-2.0	-2.8	-1.0	-2.2	2.4	-3.0	-2.5
1	D	0.7	0.2	3.2	7.8	-2.0	-3.9	-1.0	-2.8	-2.2	2.4	-2.5	-3.0
1	E	0.1	0.1	0.2	0.4	-1.4	-0.6	-0.8	0.0	-0.6	0.8	-0.6	-1.5

Frm Line	Col Line	Seis Left Vert	Seis Right Vert	E1UNB_SL_L Horiz	E1UNB_SL_L Vert	E1UNB_SL_R Horiz	E1UNB_SL_R Vert
1	A	0.0	0.1	0.0	1.2	0.0	2.4
1	B	0.0	-0.1	0.0	8.4	0.0	1.2
1	D	-0.1	0.0	0.0	1.2	0.0	8.4
1	E	0.1	0.0	0.0	2.4	0.0	1.2

Frm Line	Col Line	Dead Vert	Collat Vert	Live Vert	Snow Vert	Wind Left1 Vert	Wind Right1 Vert	Wind Left2 Vert	Wind Right2 Vert	Wind Press Horiz	Wind Suct Horiz	Wind Long1 Vert	Wind Long2 Vert
3	E	0.4	0.1	1.7	4.2	-2.3	-1.7	-1.2	-0.6	-1.3	1.5	-2.4	-1.6
3	C	0.8	0.2	3.3	8.1	-3.2	-3.9	-2.4	-3.0	-3.2	3.5	-3.4	-3.2
3	A	0.4	0.1	1.7	4.2	-2.3	-2.3	-1.2	-1.2	-1.3	1.5	-1.6	-2.6

Frm Line	Col Line	Seis Left Vert	Seis Right Vert	E2UNB_SL_L Horiz	E2UNB_SL_L Vert	E2UNB_SL_R Horiz	E2UNB_SL_R Vert
3	E	0.0	0.1	0.0	4.9	0.0	1.3
3	C	0.0	-0.2	0.0	7.1	0.0	7.1
3	A	0.0	0.0	0.0	1.3	0.0	4.9

BUILDING BRACING REACTIONS

Wall Loc	Col Line	± Reactions(k)				Panel Shear (lb/ft)		Note
		Wind Horiz	Wind Vert	Seismic Horiz	Seismic Vert	Wind	Seis	
L_EW	1							(i)
F_SW	E	1.2	2.6	1.5	1.1	0.6		
R_EW	3	E,C	1.9	2.3	0.6	0.7		(g)
B_SW	A	2						

(g) Wind column at column line
 (i) Bracing in roof to rigid frame

WIND COLUMN REACTIONS

Wall Loc	Col Line	R/L	Load_ID	± Reactions (k)		Anc. Bolt Qty	Bolt Dia	Base Plate (in)			
				Horz	Moment (f-k)			Width	Length	Thick	
B_SW	A	2	R	Wind	2.6	34.0	4	1.000	8.000	21.000	0.625
				Seismic	2.6	34.2					



DATE	ISSUE	PERMITS
10/12/2020		

RHINO STEEL BUILDING SYSTEMS

4305 I-35 NORTH
 DENTON, TX 76207
 PHONE: (940) 383-9566
 (888) 320-7466
 FAX: (940) 484-6746

PROJECT NAME
20206736 ZACHARY CLARK
 557 RT.13 SOUTH, MILFORD, NH 03055

CUSTOMER NAME
ZACHARY CLARK
 MILFORD, NH 03055

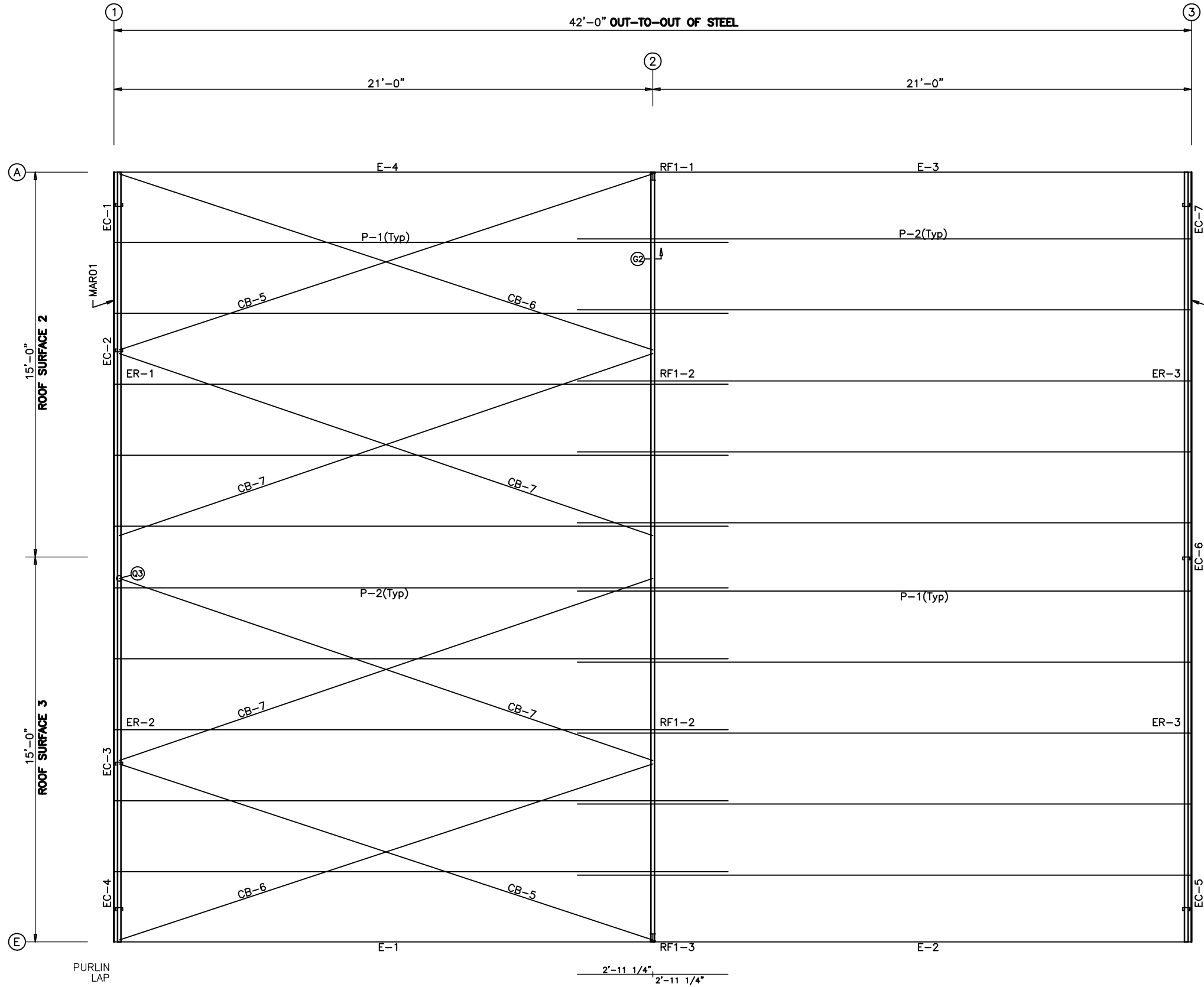
JOB NUMBER
W2008155A

SHEET TITLE

ANTHONY M. TROUT
 No. 15160
 LICENSED PROFESSIONAL ENGINEER

10/14/2020

SHEET
R1 of 1



ROOF FRAMING PLAN

TRIM TABLE			
ROOF PLAN			
ID	PART	LENGTH	DETAIL
1	RGA35	36.000	TRIM_3

MEMBER TABLE		
ROOF PLAN		
MARK	PART	LENGTH
P-1	08Z075	287.000
P-2	08Z075	287.000
E-1	08E3060	251.625
E-2	08E3060	251.625
E-3	08E3060	251.625
E-4	08E3060	251.625
CB-5	RDB-	263.000
CB-6	RDB-	262.000
CB-7	RDB-	269.000

ROOF FRAMING PLAN

GENERAL NOTES

- PLACE TAGGED END OF RAFTERS TOWARDS THE LOW EAVE.
- STD. ROD/CABLE SIZES PER PART PREFIX ARE:

ROD	CABLE
RDB- = 5/8" ROD	CAA- = 1/4" CABLE
RDC- = 3/4" ROD	CAB- = 3/8" CABLE
RDD- = 7/8" ROD	CAC- = 1/2" CABLE
RDE- = 1" ROD	
RDF- = 1 1/8" ROD	
RDG- = 1 1/4" ROD	
- PURLIN AND EAVE STRUT CONNECTIONS UTILIZE BOTH A307 AND A325 BOLTS. REFER TO THE DETAILS FOR SPECIFIC USAGE REQUIREMENTS.
- THIS DRAWING IS NOT TO SCALE.

189.500" (14)

189.500" (14)

ROOF SHEETING
 PANELS: 26 Ga. CR
 Fox Gray SP

DATE	ISSUE	PERMITS
10/12/2020		

RHINO STEEL BUILDING SYSTEMS

4305 I-35 NORTH
 DENTON, TX 76207
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 (888) 320-7466
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PROJECT NAME
 20206736 ZACHARY CLARK
 557 RT.13 SOUTH, MILFORD, NH 03055

CUSTOMER NAME
 ZACHARY CLARK
 MILFORD, NH 03055

JOB NUMBER
 W2008155A

SHEET TITLE

ANTHONY M. TROUT
 No. 15160
 LICENSED PROFESSIONAL ENGINEER - STATE OF NEW HAMPSHIRE

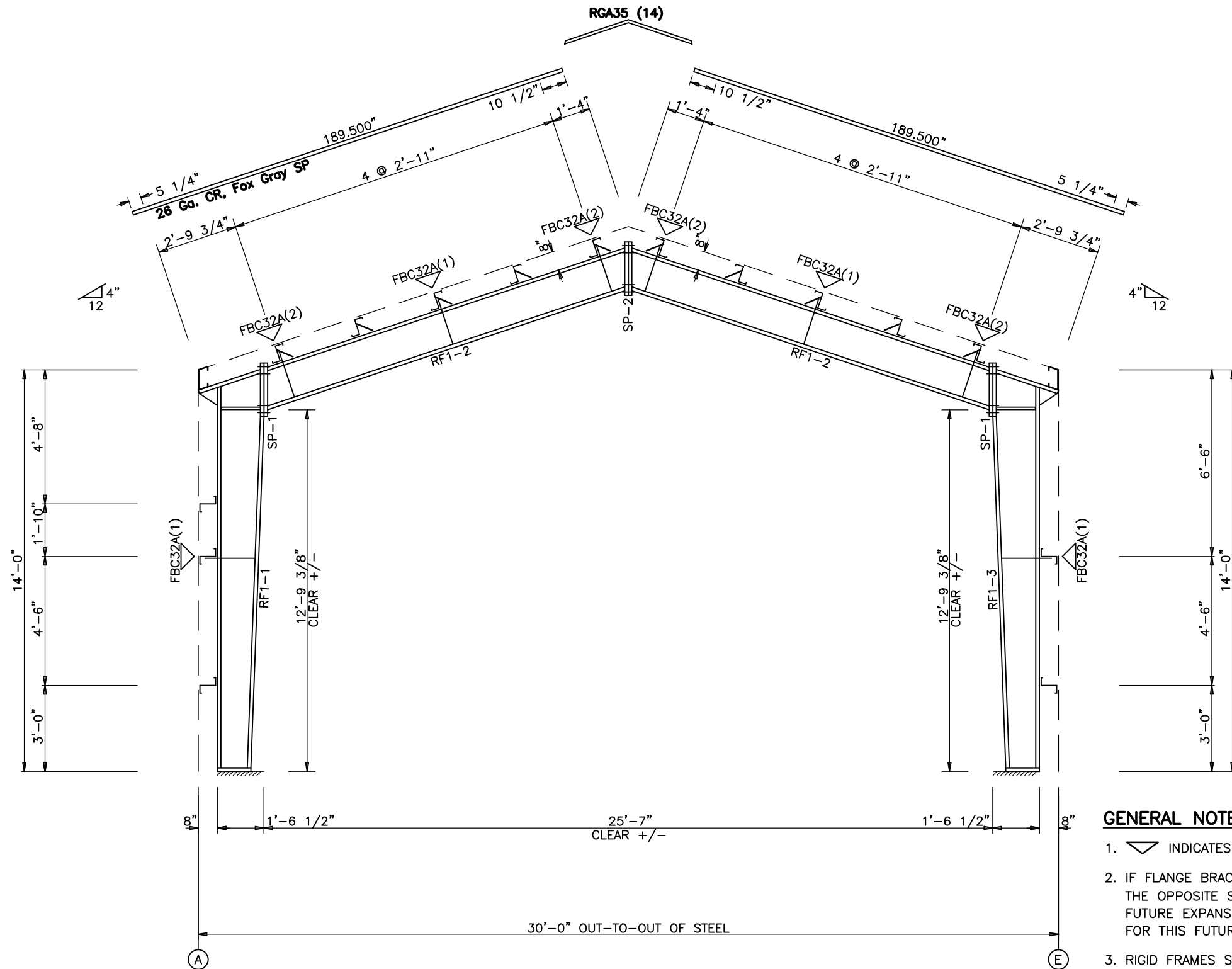
10/14/2020

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SHEET
 E1 of 6

SPLICE PLATE & BOLT TABLE										
Mark	Qty		Int	Type	Dia	Length	Width	Thick	Length	
	Top	Bot								
SP-1	4	4	0	A325	0.625	2.25	6"	5/8"	1'-9 3/8"	
SP-2	4	4	0	A325	0.625	2.25	6"	1/2"	1'-9 3/8"	

MEMBER TABLE										
Mark	Web Depth		Web Plate		Outside Flange			Inside Flange		
	Start	End	Thick	Length	W	Thk	Length	W	Thk	Length
RF1-1	11.0	18.0	0.135	149.8	5	3/16"	x 161.5	5	5/16"	x 149.9
	18.0	18.0	0.164	17.8	5	5/16"	x 27.2			
RF1-2	14.0	14.0	0.164	165.0	5	1/4"	x 160.2	5	1/4"	x 160.2
RF1-3	18.0	18.0	0.164	17.8	5	5/16"	x 27.2	5	5/16"	x 149.9
	18.0	11.0	0.135	149.8	5	3/16"	x 161.5			



RIGID FRAME ELEVATION: FRAME LINE 2

GENERAL NOTES

- ▽ INDICATES FLANGE BRACING LOCATIONS. (1) = ONE SIDE; (2) = TWO SIDES.
- IF FLANGE BRACING IS REQUIRED ON BOTH SIDES OF AN EXPANDABLE RIGID FRAME, THE OPPOSITE SIDE FLANGE BRACES WILL HAVE TO BE INSTALLED AT THE TIME OF FUTURE EXPANSION. THESE FLANGE BRACES HAVE BEEN PROVIDED, AS REQUIRED, FOR THIS FUTURE CONDITION.
- RIGID FRAMES SHALL HAVE 50% OF THEIR BOLTS INSTALLED AND TIGHTENED ON BOTH SIDES OF THE WEB ADJACENT TO EACH FLANGE BEFORE THE HOISTING EQUIPMENT IS RELEASED.
- INTERIOR COLUMN METAL TAG IS ORIENTED TOWARD THE LOW EAVE OF THE BUILDING.

DATE	ISSUE	PERMITS
10/12/2020		

RHINO STEEL BUILDING SYSTEMS

RHINO
STEEL BUILDING SYSTEMS

4305 I-35 NORTH
DENTON, TX 76207
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(888) 320-7466
FAX: (940) 484-6746

PROJECT NAME
20206736 ZACHARY CLARK
557 RT.13 SOUTH, MILFORD, NH 03055

CUSTOMER NAME
ZACHARY CLARK
MILFORD, NH 03055

JOB NUMBER
W2008155A

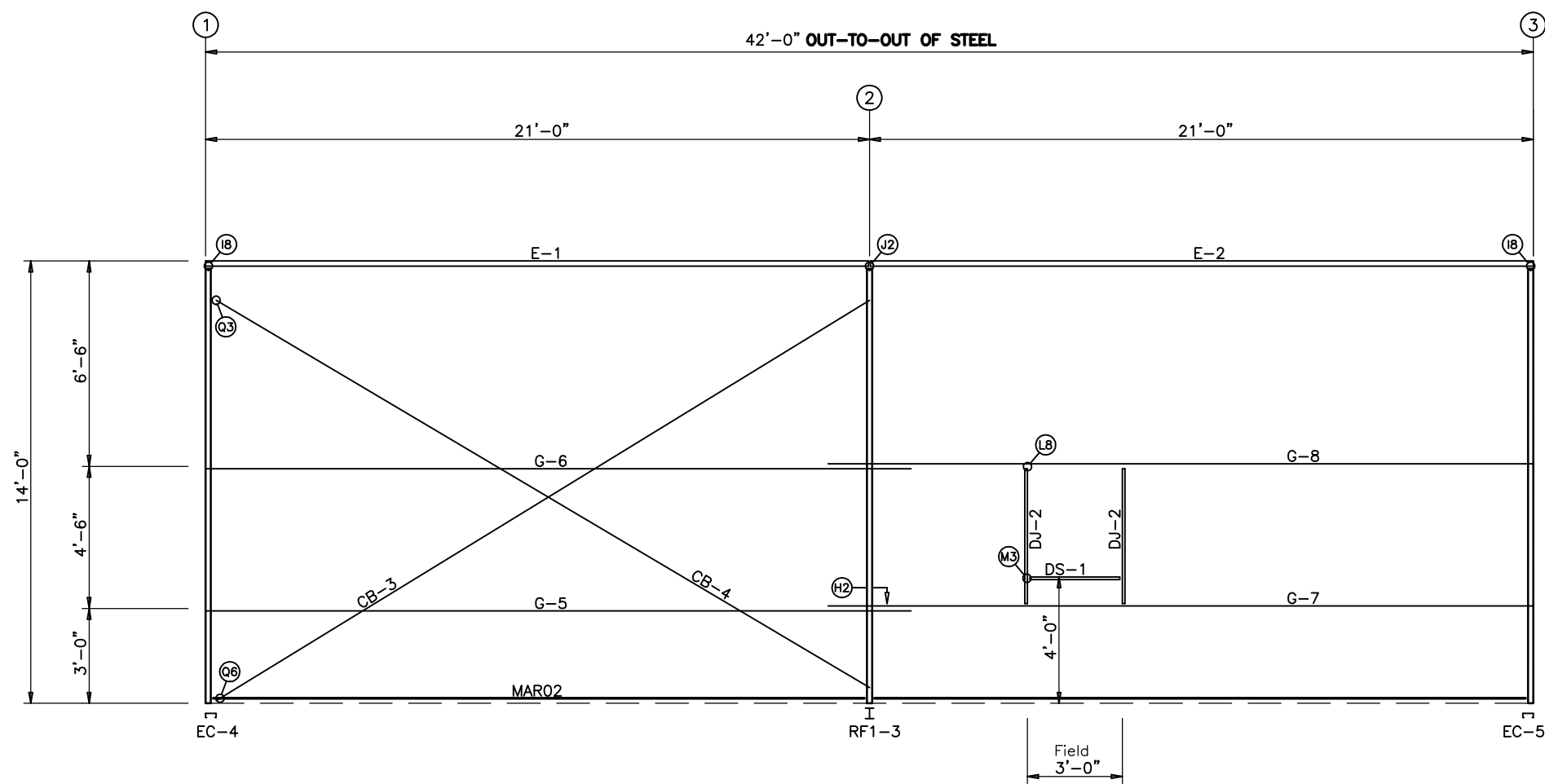
SHEET TITLE

STATE OF NEW HAMPSHIRE
ANTHONY M. TROUT
No. 15160
LICENSED PROFESSIONAL ENGINEER

10/14/2020

E2 of 6

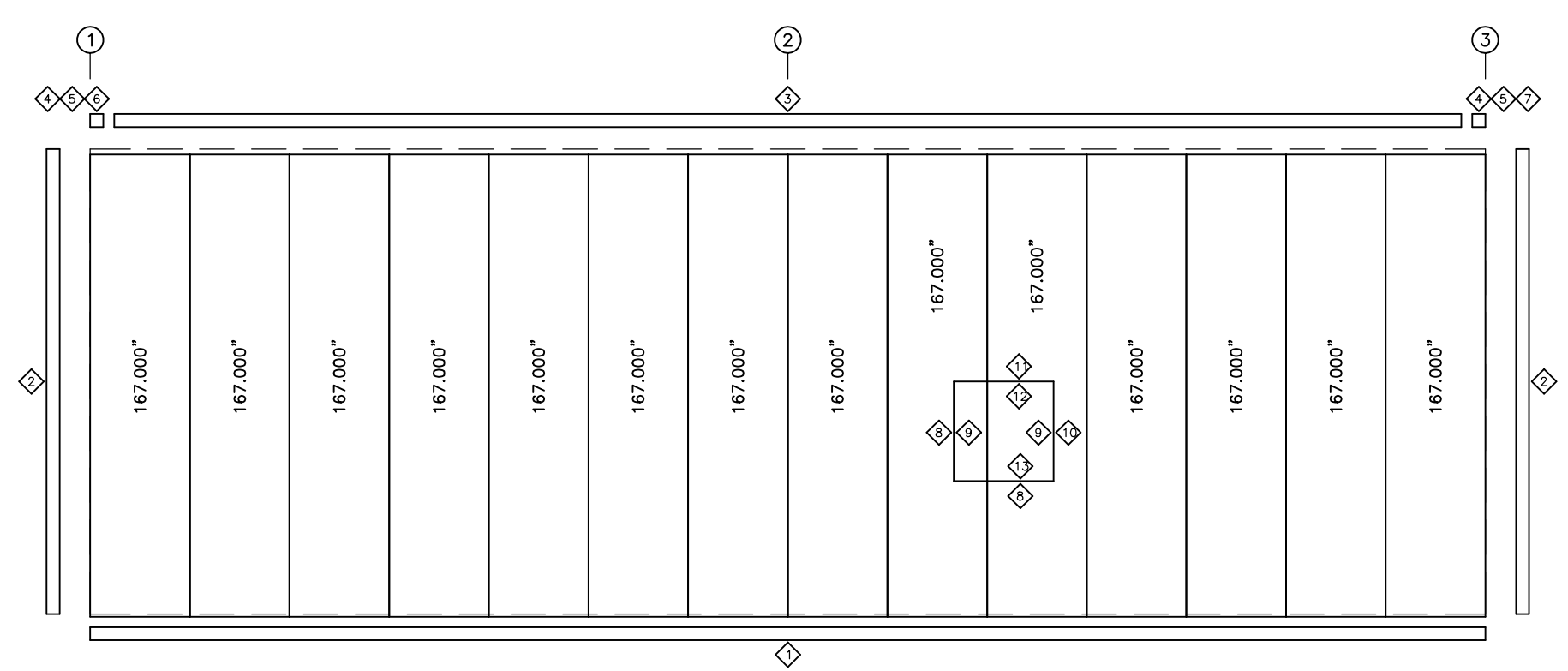
SHEET



TRIM TABLE FRAME LINE E			
ID	PART	LENGTH	DETAIL
1	BSD01	122.000	TRIM_200
2	OCA01	242.000	TRIM_79
3	LEA01	122.000	TRIM_5
4	H4000	5.000	
5	ERA01	8.060	
6	RCA01	9.250	
7	RCA02	9.250	
8	CCA121	121.000	TRIM_19
9	JTA087	87.000	TRIM_99
10	CCA121	Use Drop	TRIM_19
11	CCE040	40.000	TRIM_19
12	HTA044	44.000	TRIM_99
13	STA040	40.000	TRIM_99

MEMBER TABLE FRAME LINE E		
MARK	PART	LENGTH
DJ-2	J08C060	54.000
DS-1	J08C060	36.000
E-1	08E3060	251.625
E-2	08E3060	251.625
G-5	08Z054	267.500
G-6	08Z060	267.500
G-7	08Z054	267.500
G-8	08Z060	267.500
CB-3	RDB-	257.000
CB-4	RDB-	300.000

GIRT LAPS
1'-3 3/4" / 1'-3 3/4"
SIDEWALL FRAMING: FRAME LINE E




SIDEWALL SHEETING & TRIM: FRAME LINE E
PANELS: 26 Ga. CW - Aztec Blue SP

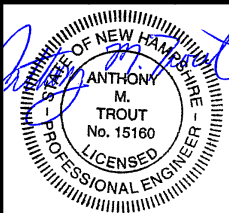
SIDEWALL FRAMING PLAN

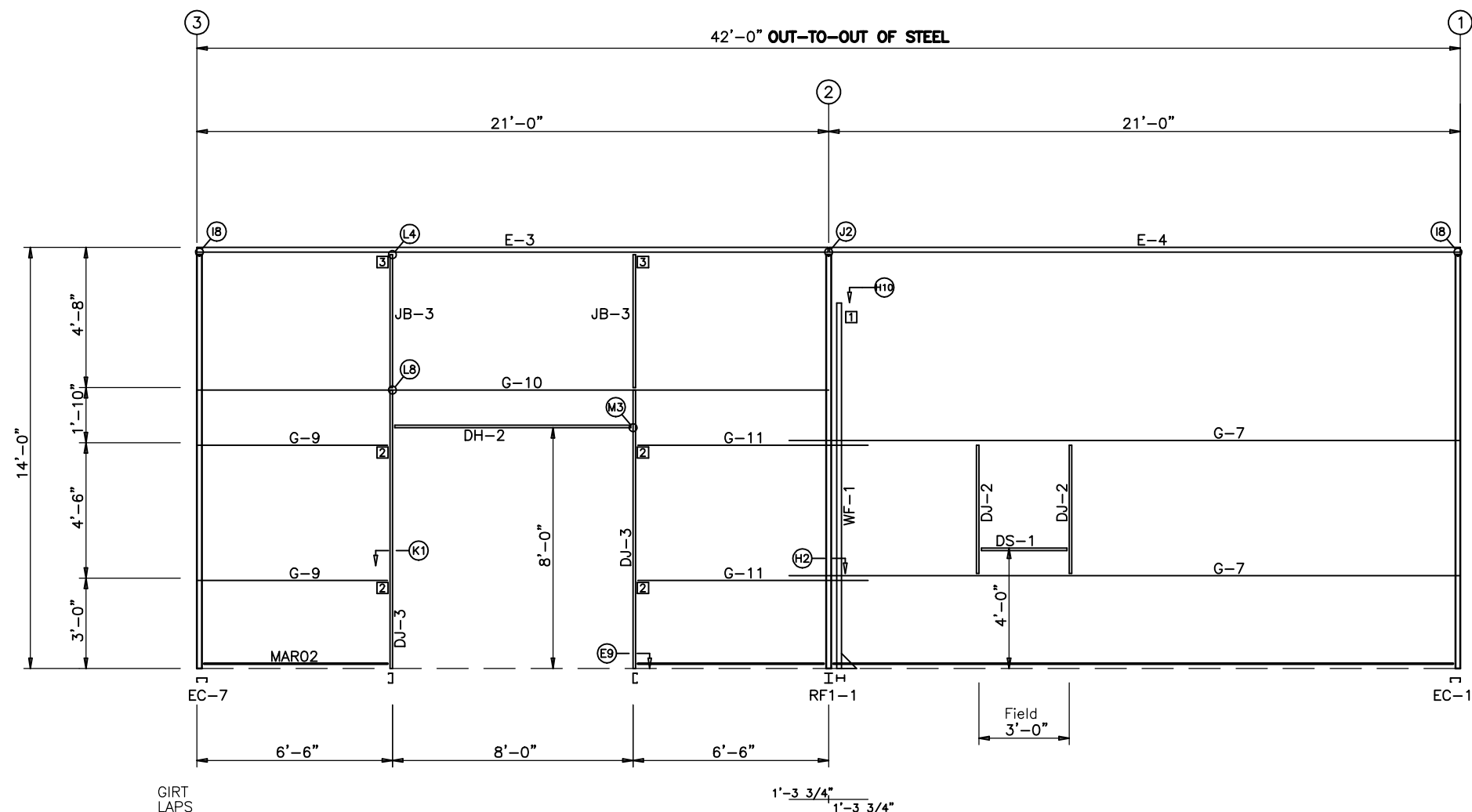
GENERAL NOTES

- STD. ROD/CABLE SIZES PER PART PREFIX ARE:

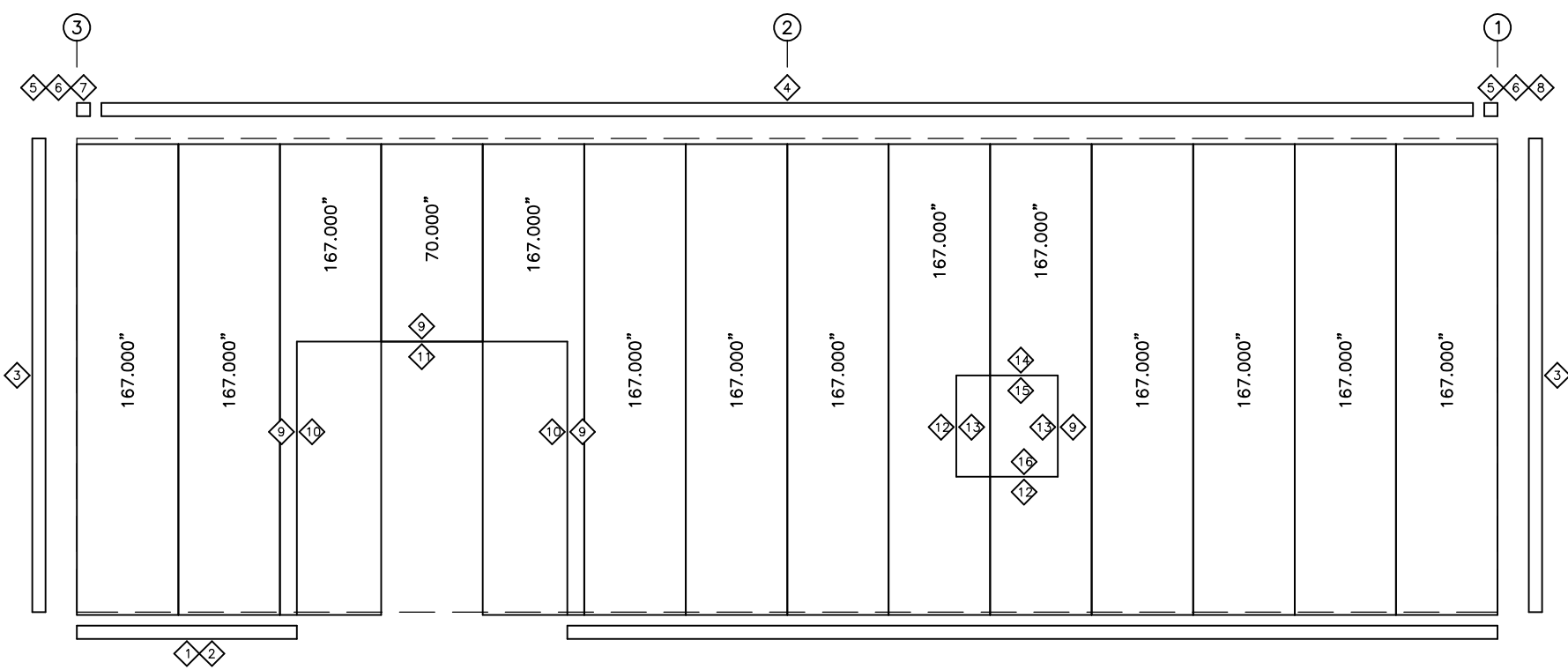
ROD	CABLE
RDB- = 5/8" ROD	CAA- = 1/4" CABLE
RDC- = 3/4" ROD	CAB- = 3/8" CABLE
RDD- = 7/8" ROD	CAC- = 1/2" CABLE
RDE- = 1" ROD	
RDF- = 1 1/8" ROD	
RDG- = 1 1/4" ROD	
- ROD/CABLE BRACING THAT OCCURS IN FLUSH OR INSET GIRT CONDITIONS WILL REQUIRE FIELD SLOTTING OF GIRT WEBS TO ALLOW FOR BRACING.
- FRAMED OPENINGS WHICH ARE FIELD LOCATED WILL REQUIRE FIELD CUTTING OF GIRTS AND SHEETING.
- THIS DRAWING IS NOT TO SCALE.

PROJECT NAME 20206736 ZACHARY CLARK 557 RT.13 SOUTH, MILFORD, NH 03055	CUSTOMER NAME ZACHARY CLARK MILFORD, NH 03055	JOB NUMBER W2008155A	SHEET TITLE E3 of 6	<div style="text-align: center;">  RHINO STEEL BUILDING SYSTEMS 4305 I-35 NORTH DENTON, TX 76207 PHONE: (940) 383-9566 (888) 320-7466 FAX: (940) 484-6746 </div>
PERMITS ISSUE DATE 10/12/2020				


ANTHONY M. TROUT
 No. 15160
 LICENSED PROFESSIONAL ENGINEER - STATE OF NEW HAMPSHIRE
 10/14/2020



SIDEWALL FRAMING: FRAME LINE A



SIDEWALL SHEETING & TRIM: FRAME LINE A
PANELS: 26 Ga. CW - Aztec Blue SP

BOLT TABLE				
FRAME LINE A				
LOCATION	QUAN	TYPE	DIA	LENGTH
WF-1 - RF1-1	8	A325	3/4"	3"

TRIM TABLE			
FRAME LINE A			
ID	PART	LENGTH	DETAIL
1	BSD01	122.000	TRIM_200
2	BSD01	Use Drop	TRIM_200
3	OCA01	242.000	TRIM_79
4	LEA01	122.000	TRIM_5
5	H4000	5.000	
6	ERA01	8.060	
7	RCA01	9.250	
8	RCA02	9.250	
9	CCA121	121.000	TRIM_19
10	JTA097	97.000	TRIM_98
11	HTA100	100.000	TRIM_98
12	CCA121	Use Drop	TRIM_19
13	JTA087	87.000	TRIM_99
14	CCE040	40.000	TRIM_19
15	HTA044	44.000	TRIM_99
16	STA040	40.000	TRIM_99

MEMBER TABLE		
FRAME LINE A		
MARK	PART	LENGTH
WF-1	W1216525	148.000
DJ-2	J08C060	54.000
DJ-3	J08C060	112.000
DH-2	J08C060	96.000
DS-1	J08C060	36.000
E-3	08E3060	251.625
E-4	08E3060	251.625
G-7	08Z054	267.500
G-9	08Z054	74.500
G-10	08Z060	254.000
G-11	08Z054	90.500
JB-3	J08C060	42.000

CONNECTION PLATES	
FRAME LINE A	
ID	MARK/PART
1	PFC06
2	JCA&P02
3	JCE04

SIDEWALL FRAMING PLAN

GENERAL NOTES

- STD. ROD/CABLE SIZES PER PART PREFIX ARE:
 ROD _____ CABLE _____
 RDB- = 5/8" ROD CAA- = 1/4" CABLE
 RDC- = 3/4" ROD CAB- = 3/8" CABLE
 RDD- = 7/8" ROD CAC- = 1/2" CABLE
 RDE- = 1" ROD
 RDF- = 1 1/8" ROD
 RDG- = 1 1/4" ROD
- ROD/CABLE BRACING THAT OCCURS IN FLUSH OR INSET GIRTS WILL REQUIRE FIELD SLOTTING OF GIRT WEBS TO ALLOW FOR BRACING.
- FRAMED OPENINGS WHICH ARE FIELD LOCATED WILL REQUIRE FIELD CUTTING OF GIRTS AND SHEETING.
- THIS DRAWING IS NOT TO SCALE.

PROJECT NAME: 20206736 ZACHARY CLARK
 557 RT.13 SOUTH, MILFORD, NH 03055
 CUSTOMER NAME: ZACHARY CLARK
 MILFORD, NH 03055
 JOB NUMBER: W2008155A
 SHEET TITLE: E4 of 6

DATE: 10/12/2020

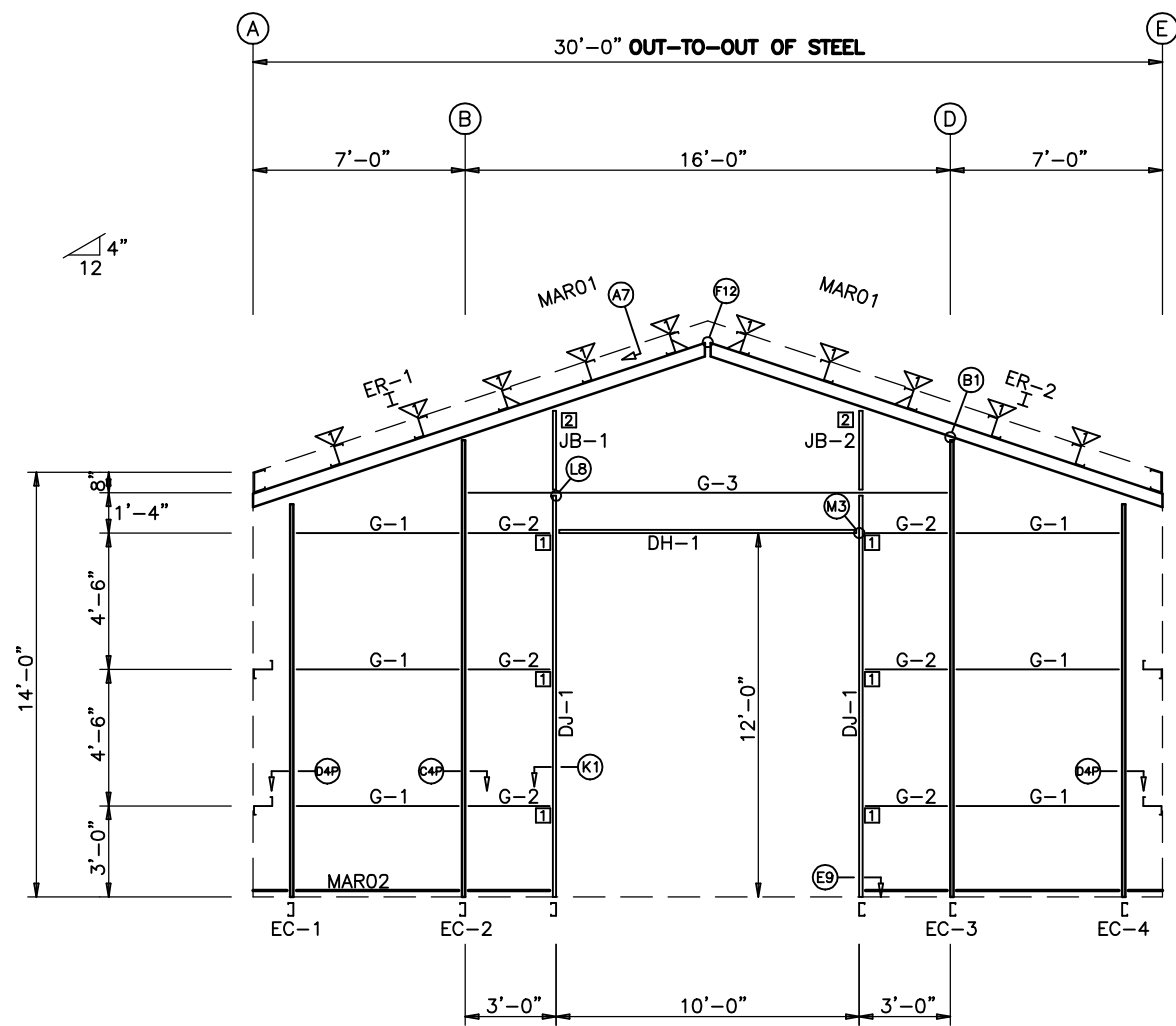
ISSUE: PERMITS

RHINO STEEL BUILDING SYSTEMS
 4305 I-35 NORTH DENTON, TX 76207
 PHONE: (940) 383-9566
 (888) 320-7466
 FAX: (940) 484-6746

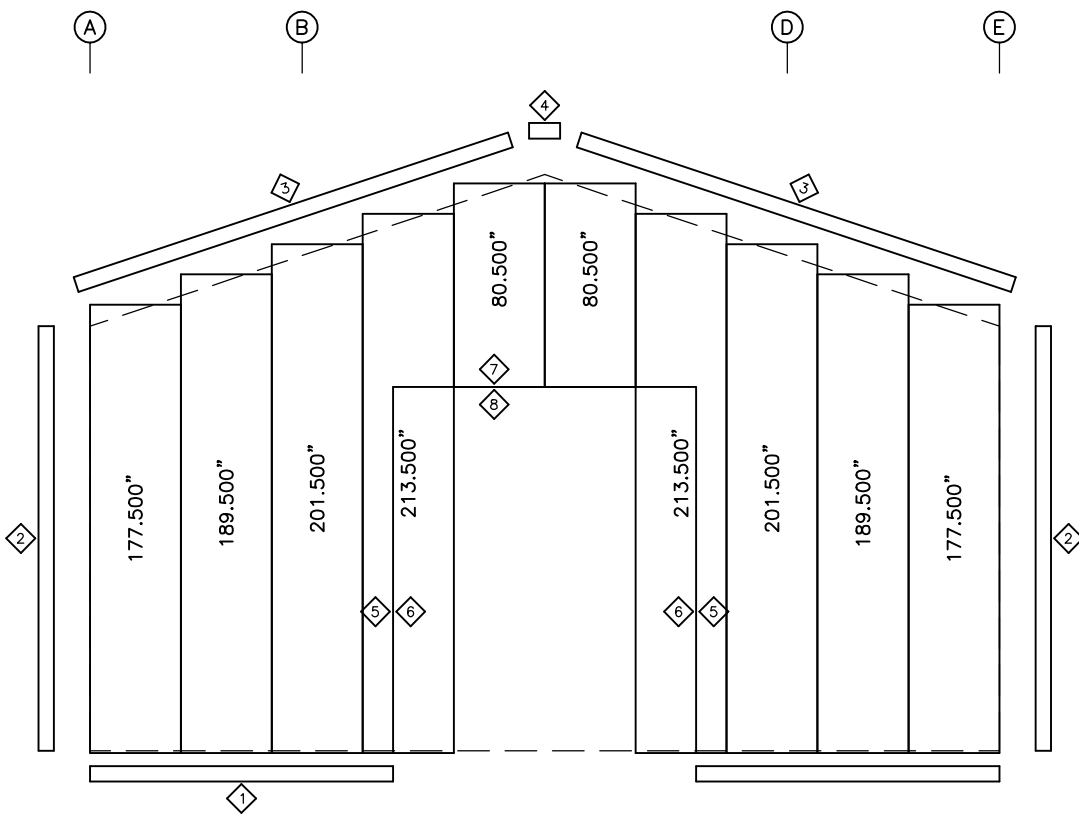
ANTHONY M. TROUT
 No. 15160
 LICENSED PROFESSIONAL ENGINEER

10/14/2020

10/14/2020



ENDWALL FRAMING: FRAME LINE 1



ENDWALL SHEETING & TRIM: FRAME LINE 1
PANELS: 26 Ga. CW - Aztec Blue SP

This endwall framing is not designed for future expansion.

BOLT TABLE FRAME LINE 1				
LOCATION	QUAN	TYPE	DIA	LENGTH
ER-1/ER-2	8	A325	1/2"	2"
Columns/Raf	6	A325	1/2"	2"

TRIM TABLE FRAME LINE 1			
ID	PART	LENGTH	DETAIL
1	BSD01	122.000	TRIM_200
2	OCA01	242.000	TRIM_79
3	RTA02	242.000	TRIM_2
4	MPB04	26.440	
5	CCA145	145.000	TRIM_19
6	JTA145	145.000	TRIM_98
7	CCA121	121.000	TRIM_19
8	HTA124	124.000	TRIM_98

MEMBER TABLE FRAME LINE 1		
MARK	PART	LENGTH
EC-1	W08S075	156.563
EC-2	W08S075	179.250
EC-3	W08S075	179.250
EC-4	W08S075	156.563
ER-1	W8x10	189.500
ER-2	W8x10	189.500
DJ-1	J08C060	160.000
DH-1	J08C060	120.000
G-1	08Z054	59.500
G-2	08Z054	28.500
G-3	08Z067	183.500
JB-1	J08C060	23.063
JB-2	J08C060	23.063


FLANGE BRACE TABLE FRAME LINE 1			
ID	#	MARK	CLIP
1	1	FBC30	

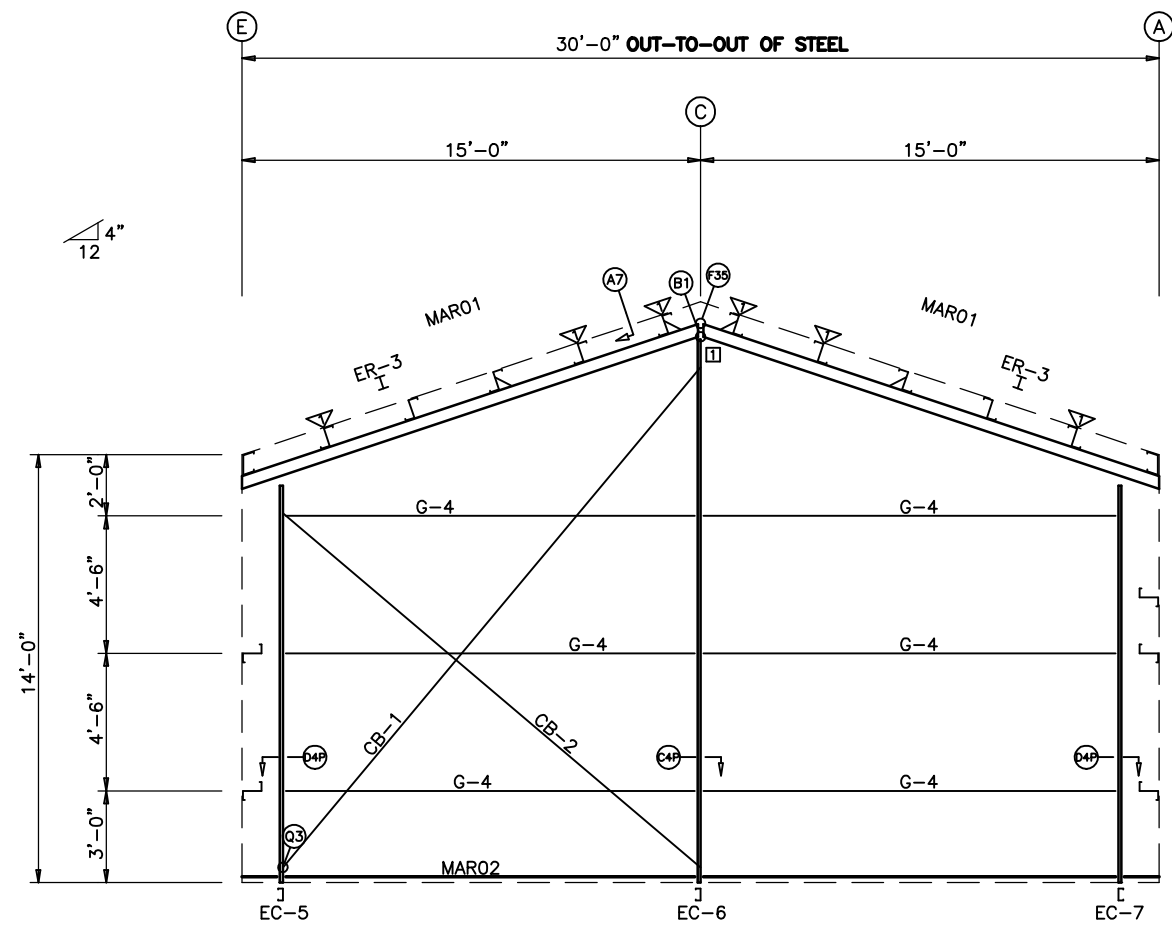
CONNECTION PLATES FRAME LINE 1	
ID	MARK/PART
1	JCA&P02
2	j1

ENDWALL FRAMING PLAN

GENERAL NOTES

- STD. ROD/CABLE SIZES PER PART PREFIX ARE:
 ROD = 5/8" ROD CAA- = 1/4" CABLE
 RDC- = 3/4" ROD CAB- = 3/8" CABLE
 RDD- = 7/8" ROD CAC- = 1/2" CABLE
 RDE- = 1" ROD
 RDF- = 1 1/8" ROD
 RDG- = 1 1/4" ROD
- ROD/CABLE BRACING THAT OCCURS IN FLUSH OR INSET GIRT CONDITIONS WILL REQUIRE FIELD SLOTTING OF GIRT WEBS TO ALLOW FOR BRACING.
- FRAMED OPENINGS WHICH ARE FIELD LOCATED WILL REQUIRE FIELD CUTTING OF GIRTS AND SHEETING.
- THIS DRAWING IS NOT TO SCALE.

PROJECT NAME 20206736 ZACHARY CLARK 557 RT.13 SOUTH, MILFORD, NH 03055 CUSTOMER NAME ZACHARY CLARK MILFORD, NH 03055 JOB NUMBER W2008155A	SHEET TITLE ENDWALL FRAMING PLAN	DATE 10/12/2020	PERMITS ISSUE CHECKED DESIGNED DRAWN MBS BRA NRS AMT	 RHINO STEEL BUILDING SYSTEMS 4305 I-35 NORTH DENTON, TX 76207 PHONE: (940) 383-9566 (888) 320-7466 FAX: (940) 484-6746
PROFESSIONAL ENGINEER ANTHONY M. TROUT No. 15180 LICENSED		10/14/2020		SHEET E5 of 6



ENDWALL FRAMING: FRAME LINE 3

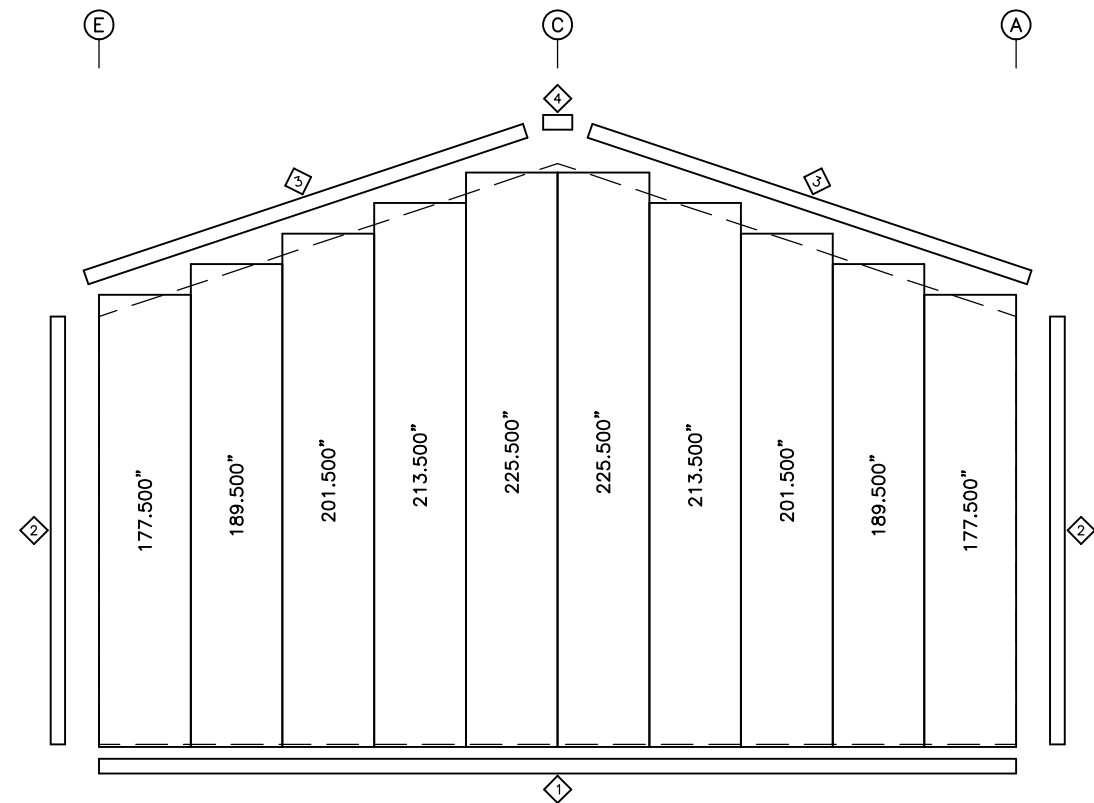
BOLT TABLE FRAME LINE 3				
LOCATION	QUAN	TYPE	DIA	LENGTH
ER-3/ER-3	4	A325	1/2"	2"
Columns/Raf	6	A325	1/2"	2"

TRIM TABLE FRAME LINE 3			
◇ ID	PART	LENGTH	DETAIL
1	BSD01	122.000	TRIM_200
2	OCA01	242.000	TRIM_79
3	RTA02	242.000	TRIM_2
4	MPB04	26.440	

MEMBER TABLE FRAME LINE 3		
MARK	PART	LENGTH
EC-5	W08S075	150.125
EC-6	W08S099	204.813
EC-7	W08S075	150.125
ER-3	W1413519	189.188
G-4	O8Z054	155.500
CB-1	RDB-	258.000
CB-2	RDB-	220.000

FLANGE BRACE TABLE FRAME LINE 3			
▽ ID	#	MARK	CLIP
1	1	FBC32	

CONNECTION PLATES FRAME LINE 3	
□ ID	MARK/PART
1	h1



ENDWALL SHEETING & TRIM: FRAME LINE 3
PANELS: 26 Ga. CW - Aztec Blue SP

ENDWALL FRAMING PLAN

GENERAL NOTES

- STD. ROD/CABLE SIZES PER PART PREFIX ARE:

ROD	CABLE
RDB- = 5/8" ROD	CAA- = 1/4" CABLE
RDC- = 3/4" ROD	CAB- = 3/8" CABLE
RDD- = 7/8" ROD	CAC- = 1/2" CABLE
RDE- = 1" ROD	
RDF- = 1 1/8" ROD	
RDG- = 1 1/4" ROD	
- ROD/CABLE BRACING THAT OCCURS IN FLUSH OR INSET GIRT CONDITIONS WILL REQUIRE FIELD SLOTTING OF GIRT WEBS TO ALLOW FOR BRACING.
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DATE	ISSUE	PERMITS
10/12/2020		

RHINO STEEL BUILDING SYSTEMS

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DENTON, TX 76207
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(888) 320-7466
FAX: (940) 484-6746

PROJECT NAME
20206736 ZACHARY CLARK
557 RT.13 SOUTH, MILFORD, NH 03055

CUSTOMER NAME
ZACHARY CLARK
MILFORD, NH 03055

JOB NUMBER
W2008155A

SHEET TITLE

STATE OF NEW HAMPSHIRE

ANTHONY M. TROUT
No. 15160
LICENSED PROFESSIONAL ENGINEER

10/14/2020

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E6 of 6