NOME PLANNING COMMISSION
REGULAR MEETING AGENDA

TUESDAY, MAY 10, 2022 at 7:00 PM
COUNCIL CHAMBERS IN CITY HALL

102 Division St. ▪ P.O. Box 281 . Nome, Alaska 99762 . Phone (907) 443-6663 . Fax (907) 443-5345

ROLL CALL

APPROVAL OF AGENDA

APPROVAL OF MINUTES

HISTORIC PRESERVATION COMMISSION ACTIVITIES

COMMUNICATIONS

A. FW: Maria Lewis (DNR) to CLG's: Free Webinar for All - Preservation Justice: Making Your Local Government Preservation Program More Equitable - May 20, 2022 1 PM

PAGE 2

B. Jacobie Schwenke (DNR) to CLG's: Invitation to 2022 Education Series Session 2: CLG Basics: Practicalities and Possibilities - June 30, 2022, 1-3 PM

PAGE 5

CITIZENS' COMMENTS

NEW BUSINESS

A. Variance Application for Lot 11B Block 21A - Lomen Ave. (21A 11B), **PUBLIC HEARING**

PAGE 7

B. Cultural Street Signage Discussion

VERBAL

UNFINISHED BUSINESS

STAFF REPORTS

A. City Manager's Report

VERBAL

B. Building Inspector's Report

VERBAL

C. Active Building & Remodel Permits Summary

PAGE 36

COMMISSIONERS' COMMENTS

SCHEDULE OF NEXT MEETING

ADJOURNMENT

From: Lewis, Maria A (DNR)
To: bunnellKR@ci.anchorage.ak.us; nbird5800@gmail.com; zane; rfoster@kenai.city; Wilma Anderson; anitam@ktn-ak.us; Adam Bradway; Bryant Hammond; Anne Jensen; Colleen Akpik-Lemen; Amy Ainslie; Bil Homka; Cynthia Rogers; bballou@cityofseward.net; Glenn Steckman; Jeremy Jacobson; crhs59@gmail.com; beth.mckibben@juneau.org; Alexis Fackeldey
Cc: Ringsmuth, Katie J (DNR); Bittner, Judith E (DNR)
Subject: Free Webinar for All - Preservation Justice: Making Your Local Government Preservation Program More Equitable - May 20, 2022
Date: Wednesday, May 04, 2022 2:02:44 PM

Dear CLGs,

Below is registration information for a free webinar being hosted by the NAPC on the topic of Preservation Justice.

Preservation Justice:

Making Your Local Government Preservation Program More Equitable

May 20, 2022 | 1 PM Eastern Time | 1.5 AIA/AICP

https://www.bigmarker.com/national-alliance-of-preserv/Preservation-Justice-Making-Your-Local-Government-Preservation-Program-More-Equitable

Best,
Maria

Maria Lewis
Architectural Historian
Alaska State Historic Preservation Office
Office of History & Archaeology
550 West 7th Avenue, Suite 1310
Anchorage, AK 99501-3561
Direct: 907-269-8717
maria.lewis@alaska.gov
http://dnr.alaska.gov/parks/oha

Logo%20Copy.png

In honor of National Preservation Month in May, NAPC will host an exciting and timely webinar that is completely FREE to all.

Preservation Justice:

Making Your Local Government Preservation Program More Equitable

May 20, 2022 | 1 PM Eastern Time | 1.5 AIA/AICP

Speakers: Adrienne Burke, Adrian Scott Fine, Lauren Hoogkamer, and Alex Westhoff

NAPC%20Event.png

There has been much discussion in the preservation world over the last several years about the need for a more equitable preservation practice. Local government programs have the ability to be leaders in creating a more

inclusive historic preservation program. How can you begin to incorporate diversity, equity, inclusion and accessibility into your preservation work? Join presenters in discussing actionable measures and case studies that can serve as models for your community.

Unable to attend live? The webinar will be recorded and available for on-demand viewing for all registrants.

REGISTER NOW

This webinar is completely FREE. Please share with your colleagues!

P.O. Box 1011 Virginia Beach, VA 23451 | (757) 802-4141

director@napcommissions.org | www.napcommissions.org

From: Schwenke, Jacobie Lynn (DNR)
To: Ringsmuth, Katie J (DNR)
Cc: Lewis, Maria A (DNR)
Subject: Invitation to 2022 Education Series Session 2: CLG Basics: Practicalities and Possibilities
Date: Friday, April 29, 2022 9:30:29 AM
Attachments: image001.png
2022clgflyer.pdf

2022 Education Series Session 2: CLG Basics: Practicalities and Possibilities

Agenda:

What is a Certified Local Government (CLG)? What are the benefits of being a CLG? How do you make the most of opportunities afforded a CLG? Maria Lewis, M.A. will moderate a presentation about the benefits of being a CLG and discuss tools that will help your CLG strengthen historic preservation in your community.

This webinar will cover the role of Historic Preservation Commissions; discuss effective preservation planning and outreach programs; share available incentives and funding sources; and conclude with a panel of current participating communities sharing their experiences and lessons learned about being a CLG.

The CLG program is a partnership between the National Park Service, the Alaska State Historic Preservation Office, and local governments to support and strengthen local historic preservation initiatives.

Microsoft Teams meeting

Time and Date
June 30th, 1:00p-3:00p Alaska (UTC-8)

Join on your computer or mobile app
Click here to join the meeting

Join with a video conferencing device
260748889@t.plcm.vc
Video Conference ID: 115 627 403 6
Alternate VTC instructions

Or call in (audio only)
+1 907-202-7104,,391730666# United States, Anchorage
Phone Conference ID: 391 730 666#
Find a local number | Reset PIN
Learn More | Meeting options

If you have any questions or need assistance please don't hesitate to reach out!

Jacobie Schwenke M.S. | Natural Resource Specialist II
Office of History and Archaeology
Division of Parks and Outdoor Recreation
550 W 7th Ave Ste 1310 | Anchorage AK 99501
(907) 269-8749

RECEIVED

DATE RECEIVED: MAY 02 2022
CITY OF NOME
CLERKS DEPARTMENT

CITY OF NOME
Variance Application

PERMIT NO. 2022-005V

Item A.

NCO 5.10.090 (Building Code) – Variances – It is recognized there are special cases where unusual physical features (including small lot size), location within a commercial or historic district, special design features which can be incorporated into the structure, and the limited building season which make strict application of the foregoing regulations unreasonable. Variances are intended to allow a relaxation of the terms of these regulations in such cases. A variance shall not be granted merely for reason of financial hardship or inconvenience. An applicant may request a variance from the Planning Commission. The Planning Commission must meet within fourteen days from the time a completed application is received in the Clerk's Office. Upon receipt of a completed application, the City Clerk shall provide notice of the application and the date of the Planning Commission meeting at which the application will be heard by regular mail to all adjacent property owners.

Denials may be appealed to the Board of Adjustment.
The Planning Commission may impose restrictions and conditions as necessary to assure complete compliance with the foregoing regulations is reasonable.
The Planning Commission may grant a variance only if the Planning Commission believes, based upon the facts placed before the Commission by the applicant, the City, and members of the public, that **all** of the following are true:

1) The variance is needed in order to provide the applicant or property owner rights to commonly enjoyed by other similarly situated properties in the same district or neighborhood;
2.) The applicant or property owner did not cause the condition that requires the variance;
3.) The variance is not requested simply to save the applicant or property owner money;
4.) The variance is not requested merely because complying with the regulations is inconvenient;
5.) Unusual physical features make strict application of the applicable regulations unreasonable;
6.) The variance requested is the minimal variance needed in order to alleviate the hardship to the applicant or property owner resulting from strict application of the applicable provisions of ordinance or regulation;
7.) Granting of the variance will not result in increased flood heights, additional threats to public safety, extraordinary public expense, create nuisances, cause fraud on or victimization of the public or conflict with existing local laws, ordinances or regulations;
8.) The variance will not permit a land use in a district in which that use is prohibited.

Subdivisions - General Provisions 70.012 - The following process shall apply to variances.

The City Clerk shall give notice of the public hearing in the following manner:

a. By publication of a notice in a newspaper of general circulation within the City not less than five (5) days nor more than twenty (20) days prior to the date of hearing
b. By sending notices by mail at least five (5) days but not more than twenty (20) days prior to the date of hearing to the property owners and residents of property who are not owners of property adjacent to the exterior boundaries of the property involved. The names and addresses of owners as shown in the records of the tax assessor and land use maps of the City will be used for this purpose. Where mailing addresses are not available, the notice will be delivered directly.
c. **Failure to send notices to persons specified in this section or failure of a person to receive a notice shall not invalidate the proceedings.**

Applicant: James Ventress
Nome Covenant Church

Phone #: 907-841-4333

Item A.

VARIANCE

I am requesting the Planning Commission consider a variance in reference to a:
(Please check one)

Preliminary Plat/Subdivision Application_____

Building Permit Application_____

Block #: 21A Lot #: 11B Tax Lot #: 001 271 02

For the following reason(s):

- ☐ Set Back from Lot Line
- ☒ Lot Size
- ☐ Off Street Parking
- ☐ Permitted Work Suspended

Other reason(s):
Also submitting an Elevation Certificate and an Application for Permit to Develop in a Flood Plain

Signature of Applicant

May 2nd, 2022
Date

Proof of notice will be provided to the Planning Commission with this application. A copy of this variance request shall be posted in the Office of the City Clerk for public information purposes and shall remain posted until the variance is acted upon by the Planning Commission.

This request will be heard before the Nome Planning Commission on 5/10/22. Applicant or representative attendance is required.

Planning Commission Additional Variance Restriction or Conditions:

A variance hearing on this permit was held by the Planning Commission at a meeting held _____ and this permit ____was____ / ____was not____ approved.

BUILDING PERMIT REFERENCE NO: _____

Chairman, Planning Commission Date

City Clerk's Office Date

FEES: REGULAR MEETING : $200.00
SPECIAL MEETING: $300.00

Receipt #: 3009261

Date Paid: 5/2/22

Fee $: 200.00

6-23-2010

City of Nome
102 Division St
PO Box 281
Nome AK 99762 (907) 443-6663

Receipt No: 3.009261 May 2, 2022

Nome Covenant Church (James Ventress)

FINES & FEES
VARIANCE Permit 200.00
application fee - 22-01V
11.3341.0002
Variance, Plats, Zoning,Vacant

Total: 200.00

CASH-GEN FUND 200.00
Payor:
Nome Covenant Church (James Ventress)
Total Applied: 200.00

Change Tendered: .00

05/02/2022 3:24 PM

CITY OF NOME

APPLICATION FOR PERMIT TO DEVELOP IN A FLOOD PLAIN AREA

The undersigned hereby makes application for a permit to develop in a designated floodplain area. The work to be performed is described below and in attachments hereto. The undersigned agrees that all such work shall be done in accordance with the requirements of the City of Nome Code of Ordinances - Chapter 11.50 Protection Against Flood Damage and with all other applicable local, state and federal regulations. The granting of a building, remodeling or moving permit or approval of a subdivision plan in the flood hazard area shall not constitute a representation guarantee or warranty of any kind by the City of Nome or by any official or employee thereof of the practicability or safety of the proposed use, and shall create no liability upon the City, its officials or employees.

Applicant/Owner: Nome Covenant Church Builder: James Ventress

Address: PO Box 657 Nome, AK 99762 Address: PO Box 2056 Nome, AK. 99762

Telephone: 907-443-2565 Telephone: 907-841-4333

Tax Lot No.: 001 271 02 Block: 21A Lot: 11B

Property Address: 102 Bering St. Nome, AK. 99762

A) **DESCRIPTION OF WORK – COMPLETE FOR ALL WORK:**

1. Proposed development description:

   ☒ New Building ☐ Improvement to Existing Building
   ☐ Manufactured Home ☐ Filling
   ☐ Other: _____

2. Size and location of proposed development (attach site plan):

   320 Sq. foot shop space with small deck space (total area 400 sq. foot)

3. Is the proposed development in a Special Flood Hazard Area (Zone A, AE, A1- A30, AH, or AO)?

   Yes ☐ No ☒

4. Per the floodplain map, what is the zone and panel number of the area of the proposed development?

   Zone: X, Panel Number: 106 C

5. Are other Federal, State or local permits obtained?

   Yes ☒ No ☐ Type: A variance for lot size is submitted and a building permit is being sought after this application

6. Is the proposed development in an identified floodway?

Yes ☐ No ☒

7. If yes to # 6, is a "no Rise Certification" with supporting data attached?

Yes ☐ No ☐

B) COMPLETE FOR NEW STRUCTURES AND BUILDING SITES:

1. Base Flood Elevation at the site: 15 feet NGVD.
2. Required lowest floor elevation (including basement): _____ feet NGVD.
3. Elevation to which all attendant utilities, including all heating and electrical equipment will be protected from flood damage: +19 feet feet NGVD.

C) COMPLETE FOR ALTERATIONS, ADDITIONS, OR IMPROVEMENTS TO EXISTING STRUCTURES:

1. What is the estimated market value of the existing structure? $ ———
2. What is the cost of the proposed construction? $ ~20,000
3. If the cost of the proposed construction equals or exceeds 50 percent of the market value of the structure, then the substantial improvement provisions shall apply.

D) COMPLETE FOR NON-RESIDENTIAL FLOODPROOFED CONSTRUCTION:

1. Type of floodproofing method: Each connex and the foundation will be individually anchored to the ground. Both containers will keep their original doors and seals.
2. The required floodproofing elevation is: _____ feet NGVD.
3. Floodproofing certification by a registered engineer is attached: Yes ☒ No ☐

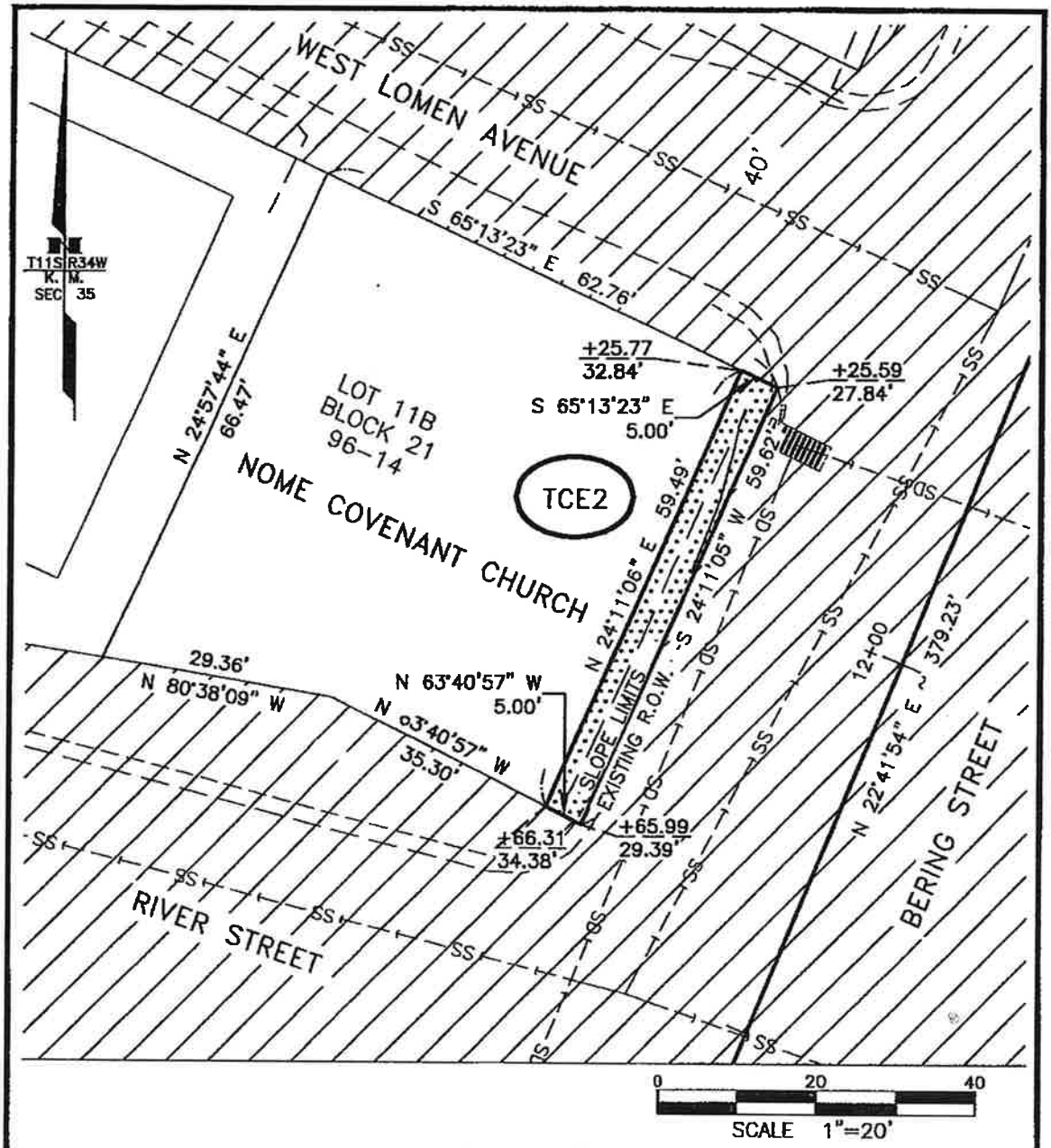
E) COMPLETE FOR SUBDIVISIONS AND PLANNED UNIT DEVELOPMENTS:

1. Will the subdivision or other development contain 50 lots or 5 acres? Yes ☐ No ☐
2. If yes, does the plat or proposal clearly identify base flood elevations? Yes ☐ No ☐
3. Are the 100 Year Floodplain and Floodway delineated on the site plan? Yes ☐ No ☐

ADMINISTRATIVE

1. PERMIT APPROVED ☐ PERMIT DENIED ☐ (Statement attached)
2. Elevation Certificate attached: Yes ☐ No ☐
3. As-Built lowest floor elevation: _____ feet NGVD
4. Work inspected by: _____
5. Local Administrator Signature: _____ Date: _____
6. Applicant's Signature: [signature] Date: 05/02/2022

CONDITIONS: _____



NOTE: DESIGN CONTRACTOR CALCULATED BERING STREET, SIDE STREETS AND ALLEYS FROM NOME CITY STREETS ROS, PLAT 2009-1 N.R.D. THIS RECORD DATA WAS TRANSLATED AND ROTATED INTO THE PROJECT SYSTEM ABOUT USLM1-C. PLAT 2009-1 N.R.D. WAS THE SOURCE OF ADDITIONAL INFORMATION AS NEEDED.

STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES		TEMPORARY CONSTRUCTION EASEMENT REQUIRED FOR NOME BERING STREET REHABILITATION
EXHIBIT A	DRAWING	PROJECT NO. 0131025/Z607390000
		AREA 298 S.F. PARCEL NO. TCE2
INITIAL DATE	2 OF 2	SCALE 1" = 20' DATE 3-4-2019

R:\ROWE\Engt\Hwys\60739_Nome Bering St\ROW\CAD\60739_TCE_KK_20190604.dwg Jul 10, 2019 - 3:46pm

6 of 6

U.S. DEPARTMENT OF HOMELAND SECURITY
Federal Emergency Management Agency
National Flood Insurance Program

OMB No. 1660-0008
Expiration Date: November 30,

Item A.

ELEVATION CERTIFICATE

Important: Follow the instructions on pages 1–9.

Copy all pages of this Elevation Certificate and all attachments for (1) community official, (2) insurance agent/company, and (3) building owner.

SECTION A – PROPERTY INFORMATION		FOR INSURANCE COMPANY USE
A1. Building Owner's Name Nome Covenant Church		Policy Number:
A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 102 Bering Street		Company NAIC Number:
City Nome	State Alaska	ZIP Code 99762

A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.)
Lot 11B, Block 21A of the Nome Townsite, U.S. Survey No. 451, per plat 96-14 of the Cape Nome Recording District

A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) Non-Residential

A5. Latitude/Longitude: Lat. 64.498347 N Long. 165.411154 W Horizontal Datum: ☐ NAD 1927 ☒ NAD 1983

A6. Attach at least 2 photographs of the building if the Certificate is being used to obtain flood insurance.

A7. Building Diagram Number _____

A8. For a building with a crawlspace or enclosure(s):

a) Square footage of crawlspace or enclosure(s) _____ sq ft

b) Number of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot above adjacent grade _____

c) Total net area of flood openings in A8.b _____ sq in

d) Engineered flood openings? ☐ Yes ☐ No

A9. For a building with an attached garage:

a) Square footage of attached garage _____ sq ft

b) Number of permanent flood openings in the attached garage within 1.0 foot above adjacent grade _____

c) Total net area of flood openings in A9.b _____ sq in

d) Engineered flood openings? ☐ Yes ☐ No

SECTION B – FLOOD INSURANCE RATE MAP (FIRM) INFORMATION

B1. NFIP Community Name & Community Number	B2. County Name	B3. State
City of Nome 020069	Nome Census Area	Alaska

B4. Map/Panel Number	B5. Suffix	B6. FIRM Index Date	B7. FIRM Panel Effective/ Revised Date	B8. Flood Zone(s)	B9. Base Flood Elevation(s) (Zone AO, use Base Flood Depth)
106	C	09-01-1983	05-03-2010	X and AE	15 Feet

B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9:
☐ FIS Profile ☒ FIRM ☐ Community Determined ☐ Other/Source: _____

B11. Indicate elevation datum used for BFE in Item B9: ☐ NGVD 1929 ☐ NAVD 1988 ☒ Other/Source: MLLW

B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)? ☐ Yes ☒ No
Designation Date: _____ ☐ CBRS ☐ OPA

ELEVATION CERTIFICATE

OMB No. 1660-0008
Expiration Date: November 30, 2022

IMPORTANT: In these spaces, copy the corresponding information from Section A.			FOR INSURANCE COMPANY USE
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 102 Bering Street			Policy Number:
City Nome	State Alaska	ZIP Code 99762	Company NAIC Number

SECTION C – BUILDING ELEVATION INFORMATION (SURVEY REQUIRED)

C1. Building elevations are based on: ☒ Construction Drawings* ☐ Building Under Construction* ☐ Finished Construction

*A new Elevation Certificate will be required when construction of the building is complete.

C2. Elevations – Zones A1–A30, AE, AH, A (with BFE), VE, V1–V30, V (with BFE), AR, AR/A, AR/AE, AR/A1–A30, AR/AH, AR/AO. Complete Items C2.a–h below according to the building diagram specified in Item A7. In Puerto Rico only, enter meters.

Benchmark Utilized: BM 7 Vertical Datum: 17.18 feet MLLW

Indicate elevation datum used for the elevations in items a) through h) below.

☐ NGVD 1929 ☐ NAVD 1988 ☒ Other/Source: MLLW

Datum used for building elevations must be the same as that used for the BFE.

		Check the measurement used.	
a) Top of bottom floor (including basement, crawlspace, or enclosure floor)	N/A	☐ feet	☐ meters
b) Top of the next higher floor	N/A	☐ feet	☐ meters
c) Bottom of the lowest horizontal structural member (V Zones only)	N/A	☐ feet	☐ meters
d) Attached garage (top of slab)	N/A	☐ feet	☐ meters
e) Lowest elevation of machinery or equipment servicing the building (Describe type of equipment and location in Comments)	N/A	☐ feet	☐ meters
f) Lowest adjacent (finished) grade next to building (LAG)	18.8	☒ feet	☐ meters
g) Highest adjacent (finished) grade next to building (HAG)	19.6	☒ feet	☐ meters
h) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support	N/A	☐ feet	☐ meters

SECTION D – SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION

This certification is to be signed and sealed by a land surveyor, engineer, or architect authorized by law to certify elevation information. *I certify that the information on this Certificate represents my best efforts to interpret the data available. I understand that any false statement may be punishable by fine or imprisonment under 18 U.S. Code, Section 1001.*

Were latitude and longitude in Section A provided by a licensed land surveyor? ☒ Yes ☐ No ☐ Check here if attachments.

Certifier's Name	License Number	
George Krier	7323S	
Title Professional Land Surveyor		
Company Name George Krier, Professional Land Surveyor		
Address 27127 Briggs Hill Road		
City Eugene	State Oregon	ZIP Code 97405
Signature George Krier	Date 05-01-2022	Telephone (360) 722-1987 Ext.

Copy all pages of this Elevation Certificate and all attachments for (1) community official, (2) insurance agent/company, and (3) building owner.

Comments (including type of equipment and location, per C2(e), if applicable)

Lot 11B, Block 21A of the Nome Townsite is vacant with several temporarily located shipping containers sitting on it. The elevations noted in C2f & g are for the proposed bike shop to be built on the site.

ELEVATION CERTIFICATE

OMB No. 1660-0008
Expiration Date: November 30, 2

Item A.

IMPORTANT: In these spaces, copy the corresponding information from Section A.			FOR INSURANCE COMPANY USE
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 102 Bering Street			Policy Number:
City Nome	State Alaska	ZIP Code 99762	Company NAIC Number

SECTION E – BUILDING ELEVATION INFORMATION (SURVEY NOT REQUIRED) FOR ZONE AO AND ZONE A (WITHOUT BFE)

For Zones AO and A (without BFE), complete Items E1–E5. If the Certificate is intended to support a LOMA or LOMR-F request, complete Sections A, B,and C. For Items E1–E4, use natural grade, if available. Check the measurement used. In Puerto Rico only, enter meters.

E1. Provide elevation information for the following and check the appropriate boxes to show whether the elevation is above or below the highest adjacent grade (HAG) and the lowest adjacent grade (LAG).

a) Top of bottom floor (including basement, crawlspace, or enclosure) is _____ ☐ feet ☐ meters ☐ above or ☐ below the HAG.

b) Top of bottom floor (including basement, crawlspace, or enclosure) is _____ ☐ feet ☐ meters ☐ above or ☐ below the LAG.

E2. For Building Diagrams 6–9 with permanent flood openings provided in Section A Items 8 and/or 9 (see pages 1–2 of Instructions), the next higher floor (elevation C2.b in the diagrams) of the building is _____ ☐ feet ☐ meters ☐ above or ☐ below the HAG.

E3. Attached garage (top of slab) is _____ ☐ feet ☐ meters ☐ above or ☐ below the HAG.

E4. Top of platform of machinery and/or equipment servicing the building is _____ ☐ feet ☐ meters ☐ above or ☐ below the HAG.

E5. Zone AO only: If no flood depth number is available, is the top of the bottom floor elevated in accordance with the community's floodplain management ordinance? ☐ Yes ☐ No ☐ Unknown. The local official must certify this information in Section G.

SECTION F – PROPERTY OWNER (OR OWNER'S REPRESENTATIVE) CERTIFICATION

The property owner or owner's authorized representative who completes Sections A, B, and E for Zone A (without a FEMA-issued or community-issued BFE) or Zone AO must sign here. The statements in Sections A, B, and E are correct to the best of my knowledge.

Property Owner or Owner's Authorized Representative's Name			
James Ventress			
Address PO Box 2056	City Nome	State AK	ZIP Code 99762
Signature James Ventress	Date 05/02/2022	Telephone 907-841-4333	

Comments

☐ Check here if attachments.

ELEVATION CERTIFICATE

OMB No. 1660-0008
Expiration Date: November 30, 2022

IMPORTANT: In these spaces, copy the corresponding information from Section A.			FOR INSURANCE COMPANY USE
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 102 Bering Street			Policy Number:
City Nome	State Alaska	ZIP Code 99762	Company NAIC Number

SECTION G – COMMUNITY INFORMATION (OPTIONAL)

The local official who is authorized by law or ordinance to administer the community's floodplain management ordinance can complete Sections A, B, C (or E), and G of this Elevation Certificate. Complete the applicable item(s) and sign below. Check the measurement used in Items G8–G10. In Puerto Rico only, enter meters.

G1. ☐ The information in Section C was taken from other documentation that has been signed and sealed by a licensed surveyor, engineer, or architect who is authorized by law to certify elevation information. (Indicate the source and date of the elevation data in the Comments area below.)

G2. ☐ A community official completed Section E for a building located in Zone A (without a FEMA-issued or community-issued BFE) or Zone AO.

G3. ☐ The following information (Items G4–G10) is provided for community floodplain management purposes.

G4. Permit Number	G5. Date Permit Issued	G6. Date Certificate of Compliance/Occupancy Issued

G7. This permit has been issued for: ☐ New Construction ☐ Substantial Improvement

G8. Elevation of as-built lowest floor (including basement) of the building: _____ ☐ feet ☐ meters Datum _____

G9. BFE or (in Zone AO) depth of flooding at the building site: _____ ☐ feet ☐ meters Datum _____

G10. Community's design flood elevation: _____ ☐ feet ☐ meters Datum _____

Local Official's Name	Title
Community Name	**Telephone**
Signature	**Date**

Comments (including type of equipment and location, per C2(e), if applicable)

☐ Check here if attachments.

ELEVATION CERTIFICATE

BUILDING PHOTOGRAPHS

See Instructions for Item A6.

OMB No. 1660-0008
Expiration Date: November 30,

IMPORTANT: In these spaces, copy the corresponding information from Section A.			FOR INSURANCE COMPANY USE
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 102 Bering Street			Policy Number:
City Nome	State Alaska	ZIP Code 99762	Company NAIC Number

If using the Elevation Certificate to obtain NFIP flood insurance, affix at least 2 building photographs below according to the instructions for Item A6. Identify all photographs with date taken; "Front View" and "Rear View"; and, if required, "Right Side View" and "Left Side View." When applicable, photographs must show the foundation with representative examples of the flood openings or vents, as indicated in Section A8. If submitting more photographs than will fit on this page, use the Continuation Page.

Photo One

Photo One Caption View from the north side of the empty lot

Clear Photo One

Photo Two

Photo Two

Photo Two Caption

Clear Photo Two

ELEVATION CERTIFICATE

BUILDING PHOTOGRAPHS

Continuation Page

OMB No. 1660-0008
Expiration Date: November 30, 2022

IMPORTANT: In these spaces, copy the corresponding information from Section A.			FOR INSURANCE COMPANY USE
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 102 Bering Street			Policy Number:
City Nome	State Alaska	ZIP Code 99762	Company NAIC Number

If submitting more photographs than will fit on the preceding page, affix the additional photographs below. Identify all photographs with: date taken; "Front View" and "Rear View"; and, if required, "Right Side View" and "Left Side View." When applicable, photographs must show the foundation with representative examples of the flood openings or vents, as indicated in Section A8.

Photo Three

Photo Three

Photo Three Caption

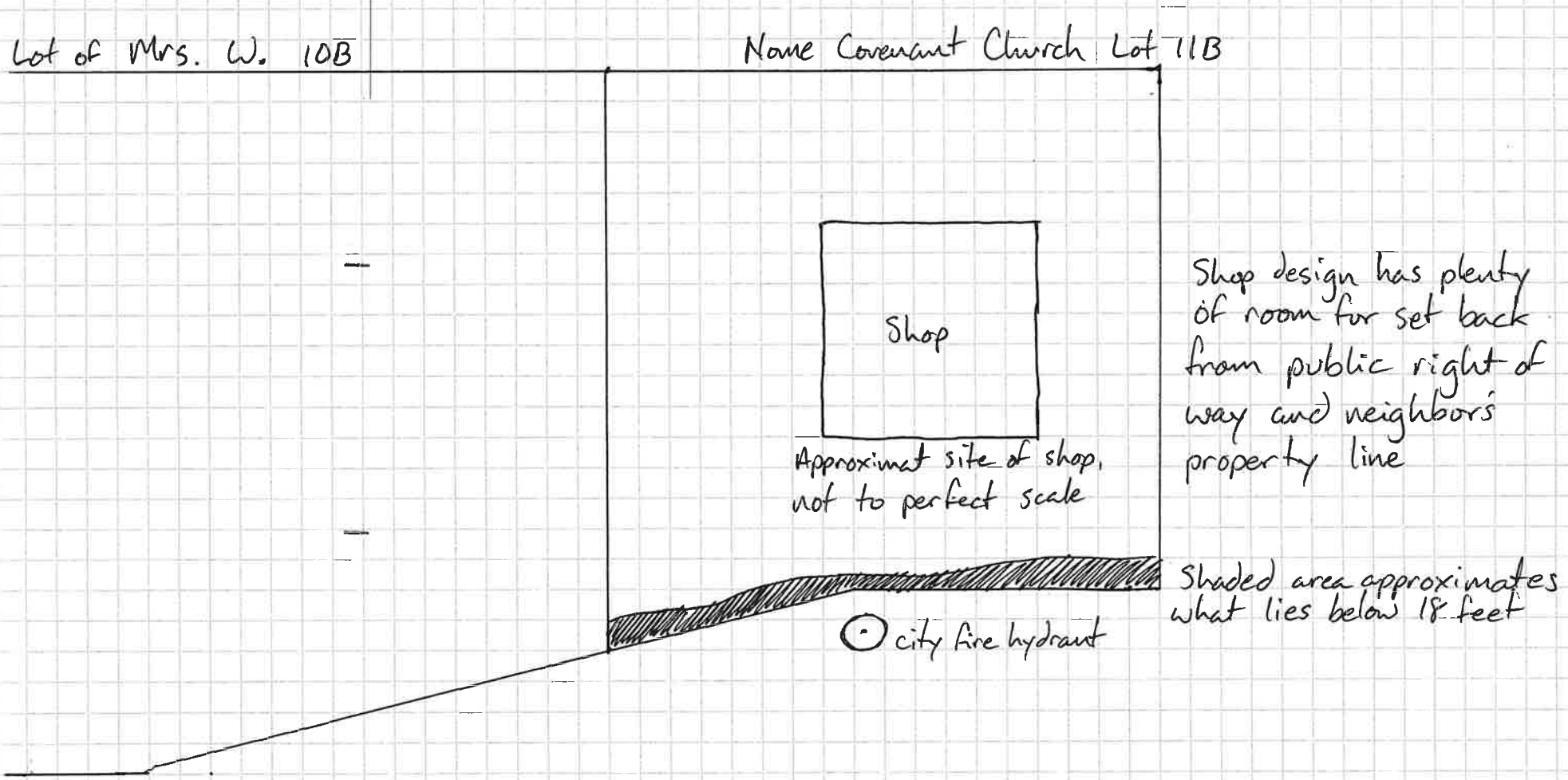
Clear Photo Three

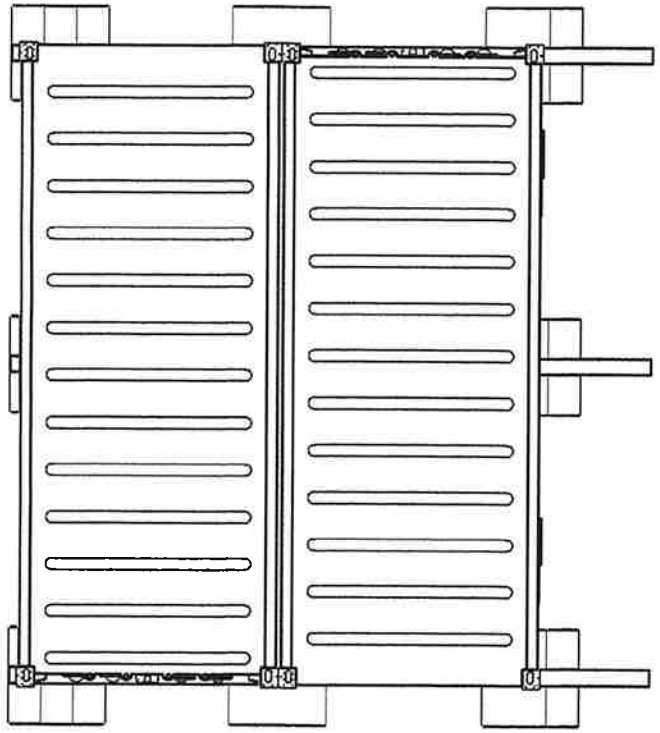
Photo Four

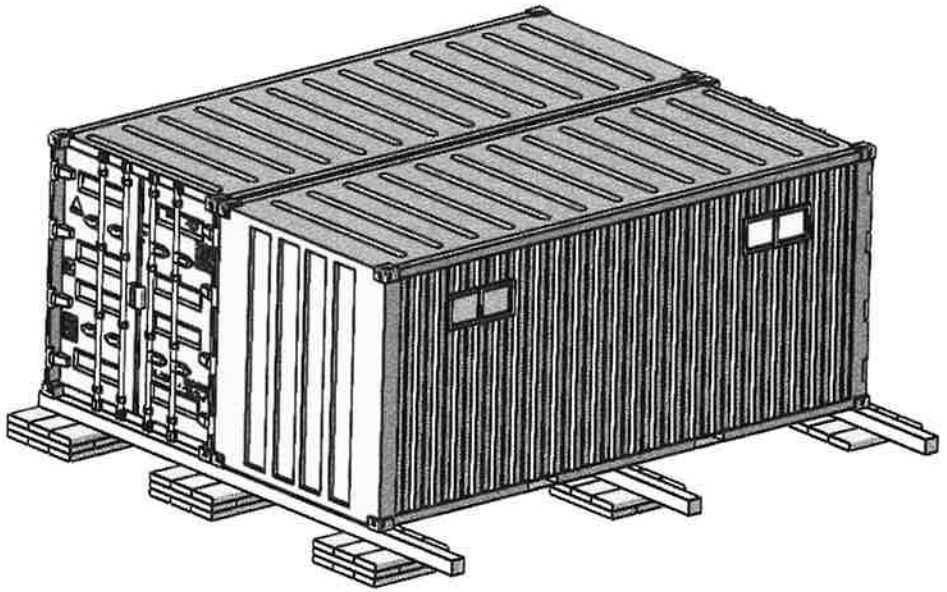
Photo Four

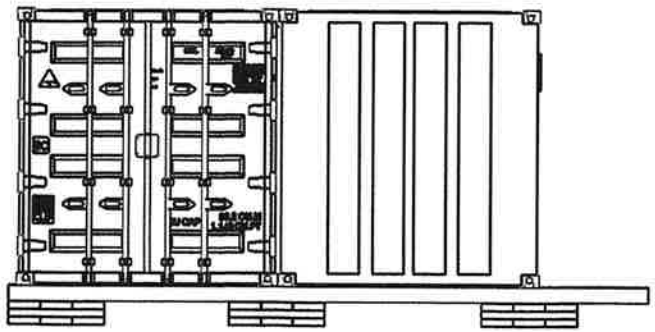
Photo Four Caption

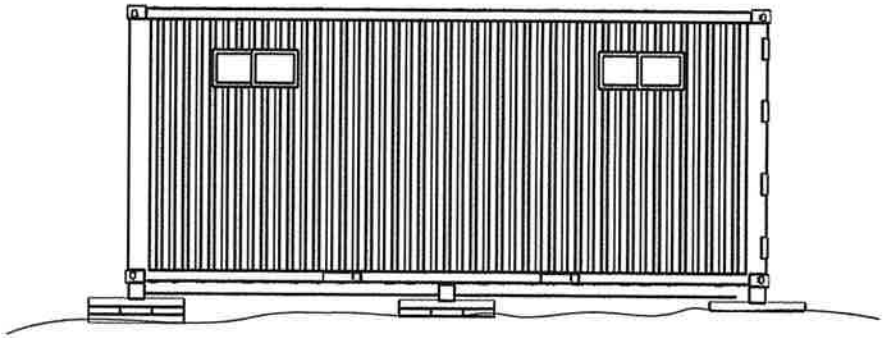
Clear Photo Four


Lot of Mrs. W. 10B
Nome Covenant Church Lot 11B
Shop
Approximat site of shop, not to perfect scale
Shop design has plenty of room for set back from public right of way and neighbors property line
Shaded area approximates what lies below 18 feet
city fire hydrant









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NEXT ASSY

USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES
TOLERANCES:
FRACTIONAL±
ANGULAR: MACH± BEND ±
TWO PLACE DECIMAL ±
THREE PLACE DECIMAL ±

INTERPRET GEOMETRIC TOLERANCING PER:

MATERIAL

FINISH

DO NOT SCALE DRAWING

NAME DATE

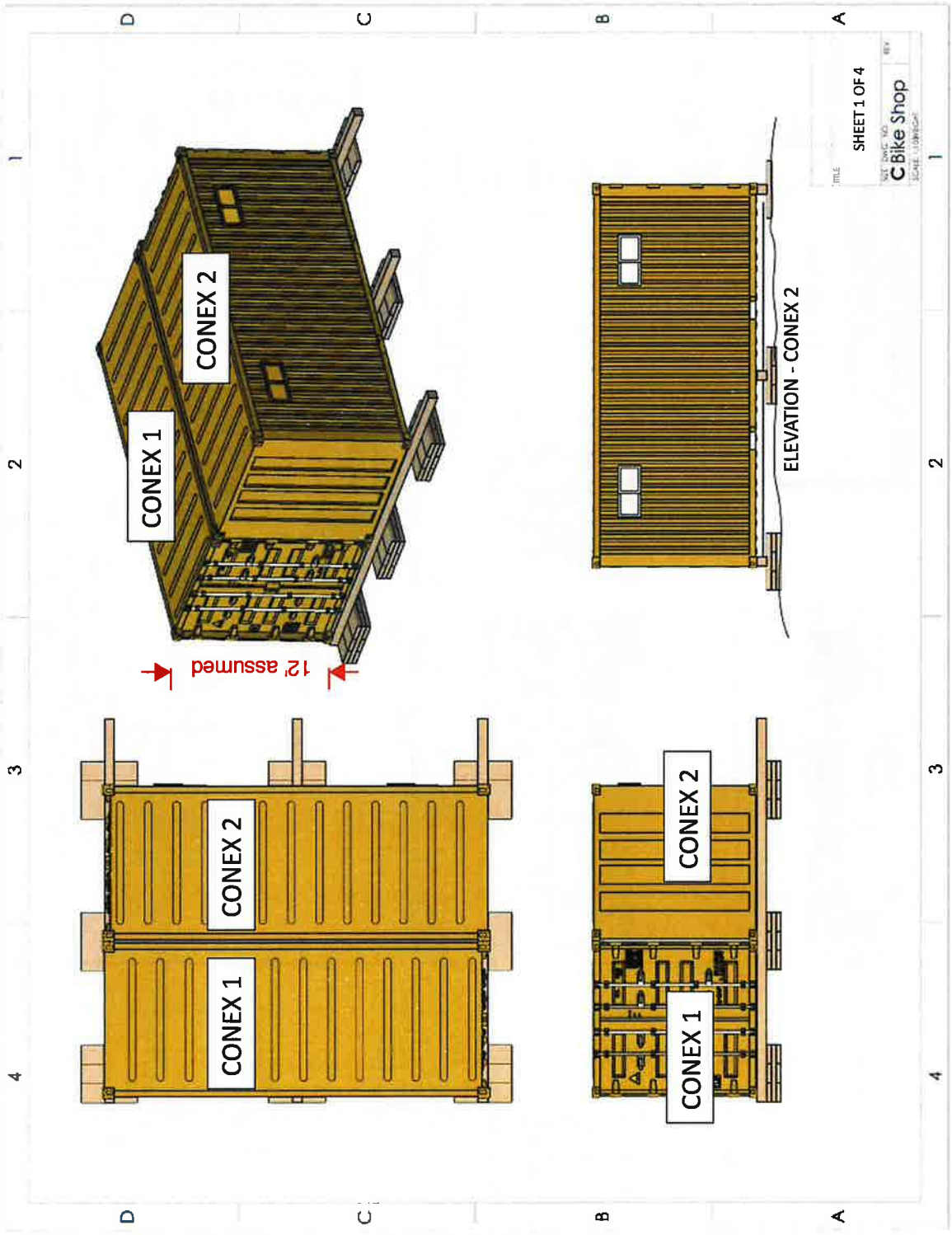
DRAWN
CHECKED
ENG APPR.
MFG APPR.
Q.A.
COMMENTS:

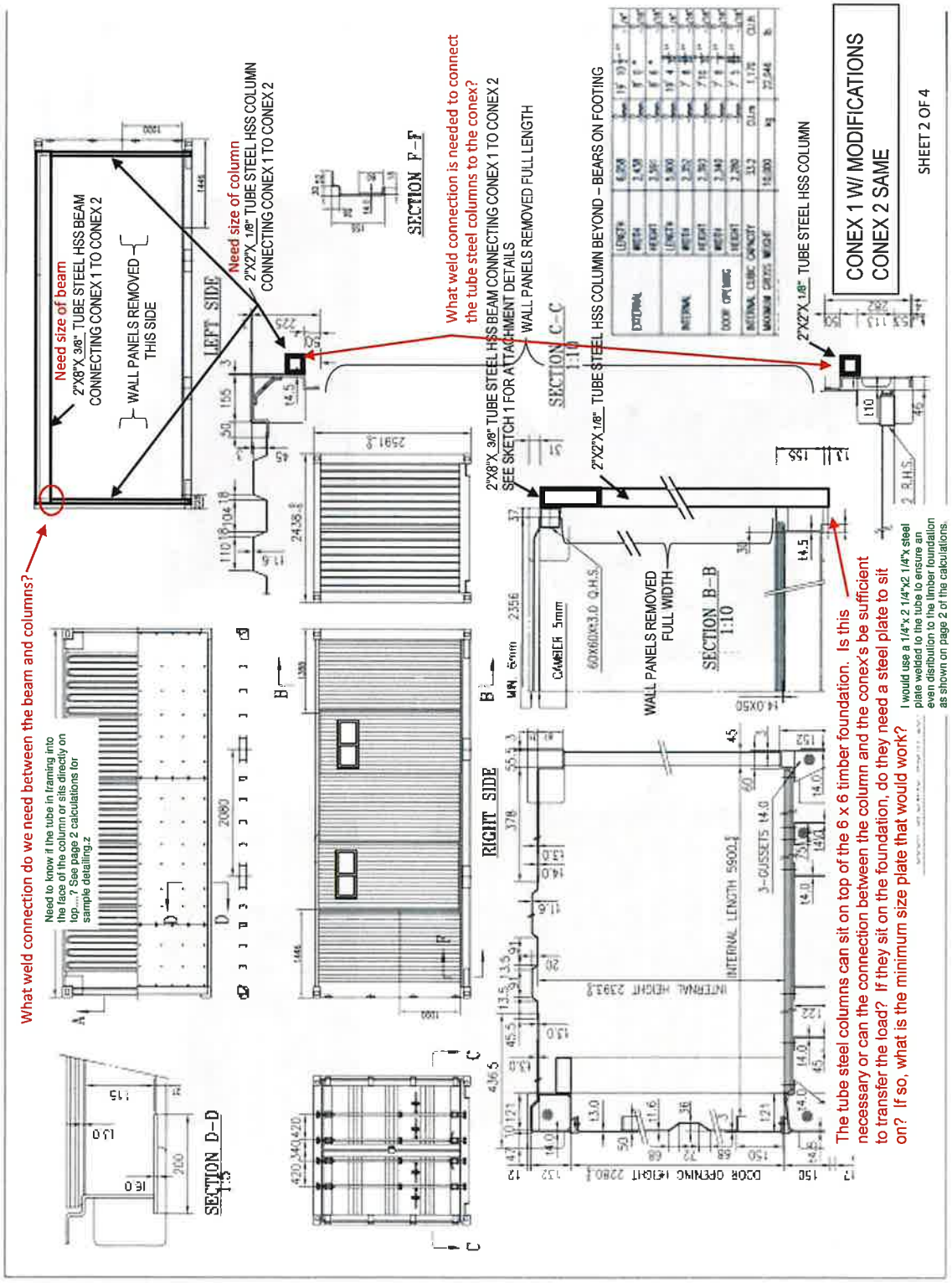
TITLE:

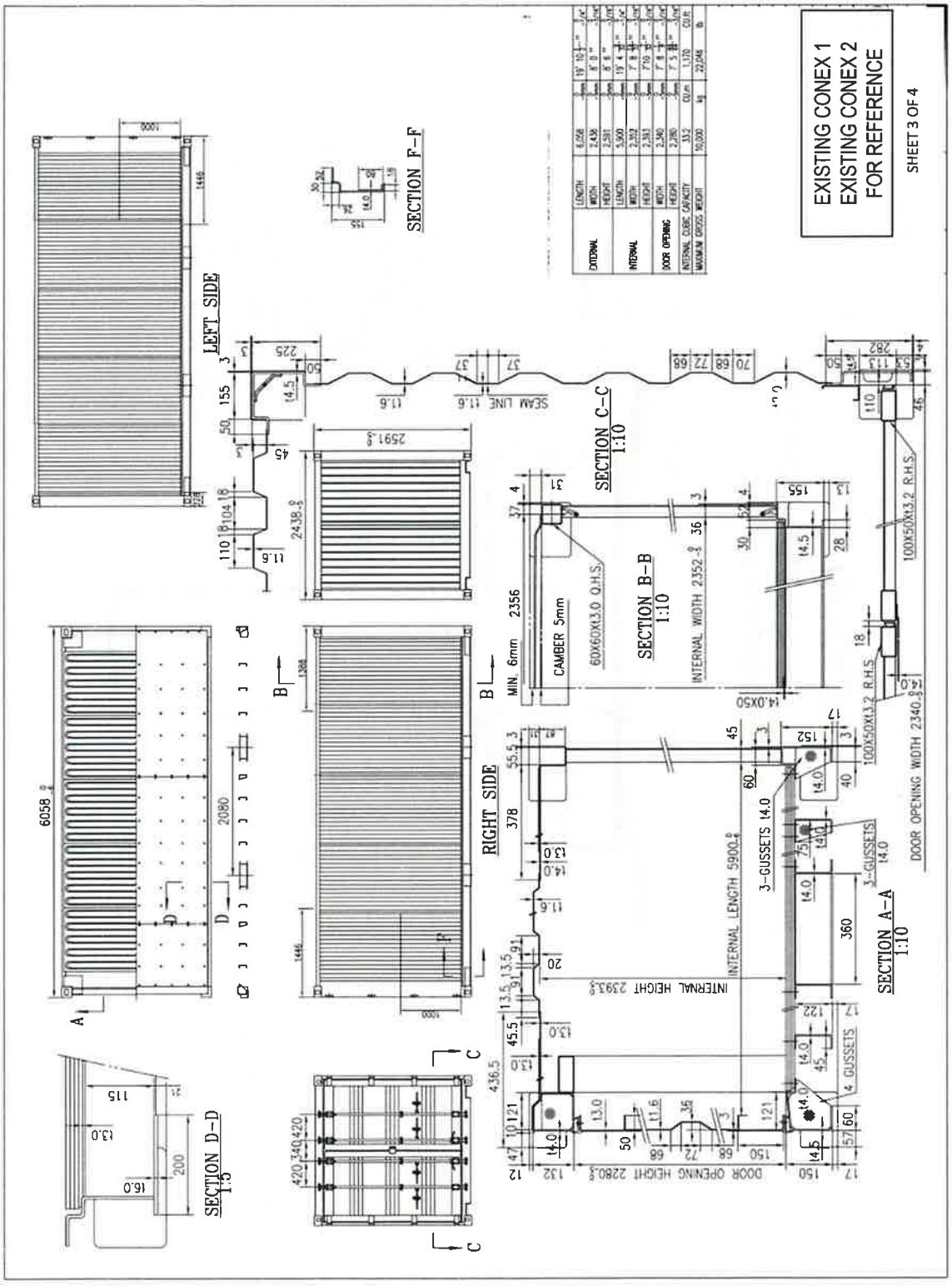
SIZE DWG. NO.
C Bike Shop-2

SCALE: 1:10 WEIGHT: SHEET

Item A.

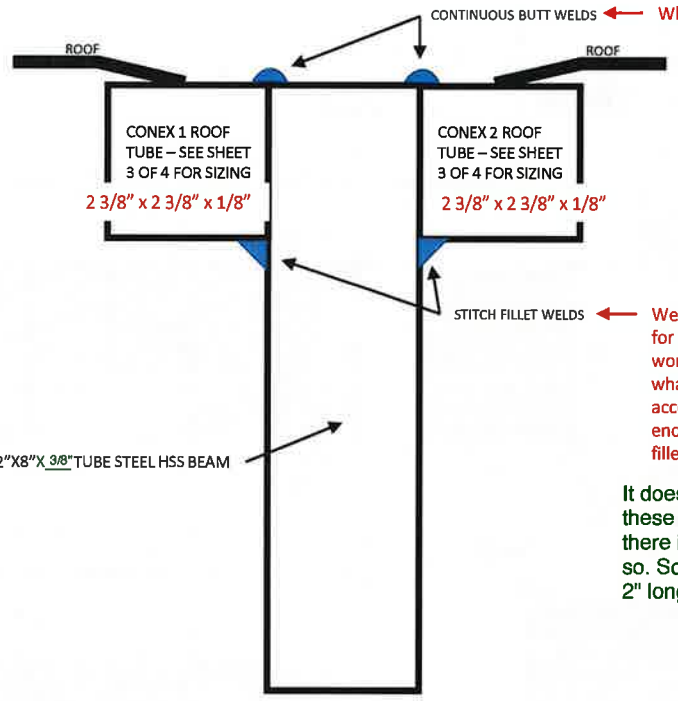

CONEX 2
CONEX 1
12' assumed
ELEVATION - CONEX 2
CONEX 2
CONEX 1
CONEX 2
CONEX 1
SHEET 1 OF 4
CBike Shop


What weld connection do we need between the beam and columns?
Need size of beam
2"X8"X 3/8" TUBE STEEL HSS BEAM
CONNECTING CONEX 1 TO CONEX 2
WALL PANELS REMOVED
THIS SIDE
LEFT SIDE
Need size of column
2"X2"X 1/8" TUBE STEEL HSS COLUMN
CONNECTING CONEX 1 TO CONEX 2
What weld connection is needed to connect
the tube steel columns to the conex?
2"X8"X 3/8" TUBE STEEL HSS BEAM CONNECTING CONEX 1 TO CONEX 2
SEE SKETCH 1 FOR ATTACHMENT DETAILS
WALL PANELS REMOVED FULL LENGTH
2"X2"X 1/8" TUBE STEEL HSS COLUMN BEYOND – BEARS ON FOOTING
2"X2"X 1/8" TUBE STEEL HSS COLUMN
CONEX 1 W/ MODIFICATIONS
CONEX 2 SAME
SHEET 2 OF 4
SECTION F–F
SECTION C–C
1:10
SECTION B–B
1:10
SECTION D–D
1:5
RIGHT SIDE
WALL PANELS REMOVED
FULL WIDTH
CAMBER 5mm
60X60X3.0 Q.H.S.
3–GUSSETS 14.0
INTERNAL LENGTH 5900
INTERNAL HEIGHT 2393.8
DOOR OPENING HEIGHT 2280
2 R.H.S.
Need to know if the tube in framing into
the face of the column or sits directly on
top...? See page 2 calculations for
sample detailing.z
The tube steel columns can sit on top of the 6 x 6 timber foundation. Is this
necessary or can the connection between the column and the conex's be sufficient
to transfer the load? If they sit on the foundation, do they need a steel plate to sit
on? If so, what is the minimum size plate that would work?
I would use a 1/4"x 2 1/4"x2 1/4"x steel
plate welded to the tube to ensure an
even distribution to the timber foundation
as shown on page 2 of the calculations.


EXISTING CONEX 1
EXISTING CONEX 2
FOR REFERENCE
SHEET 3 OF 4
LEFT SIDE
RIGHT SIDE
SECTION F-F
SECTION C-C
1:10
SECTION B-B
1:10
SECTION A-A
1:10
SECTION D-D
1:5
CAMBER 5mm
MIN. 6mm
60X60X3.0 Q.H.S.
100X50X3.2 R.H.S.
INTERNAL WIDTH 2352.8
INTERNAL LENGTH 5900.8
INTERNAL HEIGHT 2393.8
DOOR OPENING HEIGHT 2280.8
DOOR OPENING WIDTH 2340.8
3-GUSSETS
4 GUSSETS
SEAM LINE

SKETCH #1

SECTION - STRUCTURAL TUBE ATTACHED TO CONEX TUBES (no scale)



What size weld do these need to be?

1/8", and that will be more of a groove weld given the radius of the tubes....

We would like to do fillet stitch welds for the bottom connections. If this works, what size weld, what length and what spacing between welds will be acceptable? If this doesn't provide enough stiffness, we can do continuous fillet welds. Please specify.

It doesn't make sense to make these tubes composite because there is very little benefit to doing so. So you would simply provide a 2" long fillet weld every 6 inches.

With this additional welding, please verify the minimum size HSS that will work for this beam? As discussed, we'd like to stay with a 2" width for all members.

SHEET 4 OF 4

Steel Properties:

$fy_{tube} := 46 \cdot ksi$ Tube Yield Strength

$E_s := 29300 \cdot ksi$ Steel Modulus of Elasticity

Design Info:

$Span := 20\,ft + 0\,in$ Member Span $Shape_{factor} := 1.19$

$trib\_width := 8\,ft + 0\,in$ Member tributary width

$Snow := 50\,psf$ Snow load

$DL := 10\,psf$ Dead load

$I_x := 38.2\,in^4$ Moment of inertia

Strength Reduction Factors:

$\phi_1 := .9$ $\phi_3 := .85$

$\phi_2 := .75$ $\phi_4 := 1.0$

Load Factors:

$D_{LF} := 1.2$

$S_{LF} := 1.6$

Beam Loading:

Service line load $w_s := (Snow + DL) \cdot (trib\_width)$ $w_s = 0.48\ \frac{kip}{ft}$ $\Delta\_req := \frac{Span}{240}$

Ultimate line load $w_u := (S_{LF} \cdot Snow + D_{LF} \cdot DL) \cdot (trib\_width)$ $w_u = 0.74\ \frac{kip}{ft}$

Service moment $M_s := \frac{w_s \cdot Span^2}{8}$ $M_s = 288\ kip \cdot in$

Ultimate moment $M_u := \frac{w_u \cdot Span^2}{8}$ $M_u = 441.6\ kip \cdot in$

$Ru := \frac{w_u \cdot Span}{2}$ $Ru = 7.36\ kip$

Capacities:

$Z\_req := \frac{M_u}{\phi_1 \cdot fy_{tube}}$ $Z\_req = 10.67\ in^3$ < $z_1 = 13.09\ in^3$ **OK**

$\Delta := \frac{5\,(w_s \cdot (Span)^4)}{384\,(E_s \cdot I_x)}$ $\Delta = 1.54\ in$ < $\Delta\_req = 1\ in$

Check deflection assuming composite section with continuous weld

Table 1-11 (continued)
Rectangular HSS
Dimensions and Properties

Shape	Design Wall Thick-ness, t	Nominal Wt.	Area, A	b/t	h/t	Axis X-X			
						I	S	r	Z
	in.	lb/ft	in.^{2}			in.^{4}	in.^{3}	in.	in.^{3}
HSS8×2×¼	0.349	22.37	6.18	2.73	19.9	38.2	9.56	2.49	13.4
×5/16	0.291	19.08	5.26	3.87	24.5	33.7	8.43	2.53	11.6
×¼	0.233	15.62	4.30	5.58	31.3	28.5	7.12	2.57	9.88
×3/16	0.174	11.97	3.28	8.49	43.0	22.4	5.61	2.61	7.51
×⅛	0.116	8.16	2.23	14.2	66.0	15.7	3.93	2.65	5.19

8	x	2	.500	28.40		
			.180	11.50		
			.250	15.60		
			.313	19.10		
			.375	22.40		12

$h_{st} := 2.375\ in \quad w_{st} := 2.375 \cdot in \quad t_{st} := \frac{1}{8} \cdot in \quad n_{st} := 2 \quad h_{lt} := 8\ in \quad w_{lt} := 2\ in \quad t_{lt} := \frac{3}{8} \cdot in$

$h_{position} := h_{lt} - h_{st}$

$I_{lt} := \frac{\left(w_{lt} \cdot h_{lt}^{3}\right) - \left(\left(w_{lt} - 2 \cdot t_{lt}\right) \cdot \left(h_{lt} - 2 \cdot t_{lt}\right)^{3}\right)}{12 \cdot Shape_{factor}} \quad I_{lt} = 38.35\ in^4 \quad y_{lt} := \frac{h_{lt}}{2} \quad A_{lt} := t_{lt} \cdot \left(2 \cdot h_{lt} + 2 \cdot w_{lt}\right)$

$I_{st} := \frac{\left(w_{st} \cdot h_{st}^{3}\right) - \left(\left(w_{st} - 2 \cdot t_{st}\right) \cdot \left(h_{st} - 2 \cdot t_{st}\right)^{3}\right)}{12 \cdot Shape_{factor}} \quad I_{st} = 0.8\ in^4 \quad y_{st} := \frac{h_{st}}{2} + h_{position} \quad A_{st} := t_{st} \cdot \left(2 \cdot h_{st} + 2 \cdot w_{st}\right)$

$centroid := \frac{\left(A_{lt} \cdot y_{lt}\right) + \left(A_{st} \cdot y_{st}\right)}{A_{lt} + A_{st}} \quad centroid = 4.38\ in$

$I`_{lt} := I_{lt} + A_{lt} \cdot \left(centroid - y_{lt}\right)^{2} \quad I`_{st} := I_{st} + A_{st} \cdot \left(\left|centroid - y_{lt}\right|\right)^{2}$

$I\_total := I`_{lt} + \left(n_{st} \cdot I`_{st}\right) \quad I\_total = 41.41\ in^4$

$\Delta_{composite} := \frac{5 \left(w_s \cdot \left(Span\right)^4\right)}{384 \left(E_s \cdot I\_total\right)} \quad \Delta_{composite} = 1.42\ in \quad < \quad \Delta\_req = 1\ in$

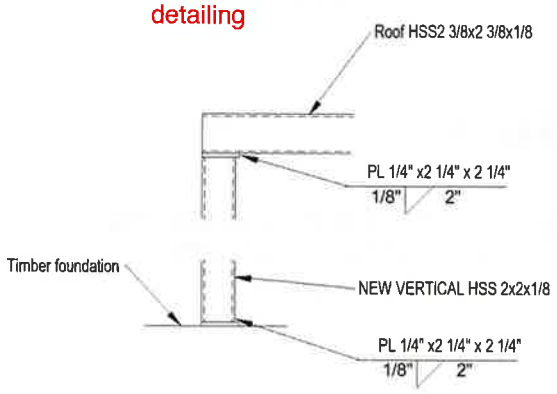
Overall deflection is marginally less....

Check support column design:

$P_u := \frac{Ru}{2} \quad P_u = 3.68\ kip \quad < \quad \phi Pn := 5.3\ kip$

Assume 2x2x1/8" with 12' unbraced length

Proposed Column detailing



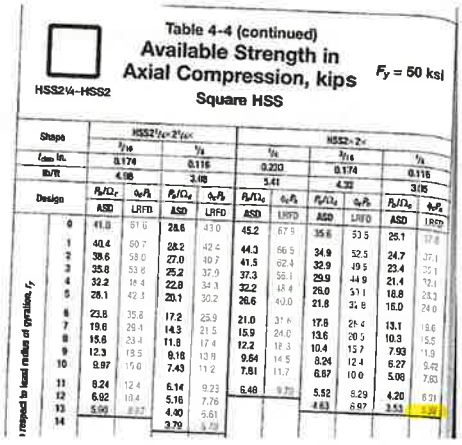


Table 4-4 (continued)
Available Strength in Axial Compression, kips
Square HSS
F_y = 50 ksi
HSS2¼–HSS2

Shape	HSS2¼×2¼×				HSS2×2×				
	5/16		1/4		1/4	5/16		1/4	
t_{des}, in.	0.174		0.116		0.220	0.174		0.116	
lb/ft	4.08		3.08		5.41	4.32		3.05	
Design	P_n/Ω_c ASD	$\phi_c P_n$ LRFD	P_n/Ω_c ASD	$\phi_c P_n$ LRFD	P_n/Ω_c ASD	$\phi_c P_n$ LRFD	P_n/Ω_c ASD	$\phi_c P_n$ LRFD	P_n/Ω_c ASD	$\phi_c P_n$ LRFD
0	41.8	61.6	28.6	43.0	45.2	67.9	35.6	53.5	25.1	37.8
1	40.4	60.7	28.2	42.4	44.3	66.5	34.9	52.5	24.7	37.1
2	38.6	58.0	27.0	40.7	41.5	62.4	32.9	49.5	23.4	35.1
3	35.8	53.8	25.2	37.9	37.3	56.1	29.9	44.9	21.4	32.1
4	32.2	48.4	22.8	34.3	32.2	48.4	26.0	39.1	18.8	28.3
5	28.1	42.3	20.1	30.2	26.6	40.0	21.8	32.8	16.0	24.0
6	23.8	35.8	17.2	25.9	21.0	31.6	17.8	26.4	13.1	19.6
7	19.6	29.4	14.3	21.5	15.9	24.0	13.6	20.5	10.3	15.5
8	15.6	23.4	11.8	17.4	12.2	18.3	10.4	15.7	7.93	11.9
9	12.3	18.5	9.18	13.8	9.64	14.5	8.24	12.4	6.27	9.42
10	9.97	15.0	7.43	11.2	7.81	11.7	6.67	10.0	5.08	7.63
11	8.24	12.4	6.14	9.23	6.46	9.70				
12	6.92	10.4	5.16	7.76			5.52	8.29	4.20	6.31
13	5.90	8.87	4.40	6.61			4.63	6.97	3.53	5.30
14			3.79	5.70						

r_y = radius of gyration, in., respect to least

Property: | Property | 1166 of 2428

Property: 001.271.02 (LOMEN AVE. (21A 11B)) | Balance: .00 | Status: Active

Property | Owners | Land Records | Property Value History | Property Sales | Transactions | Period Summary | Payoff | Documents | Property History

Property | Legal Description | Taxing District | Alert Message | Attachments | Notes

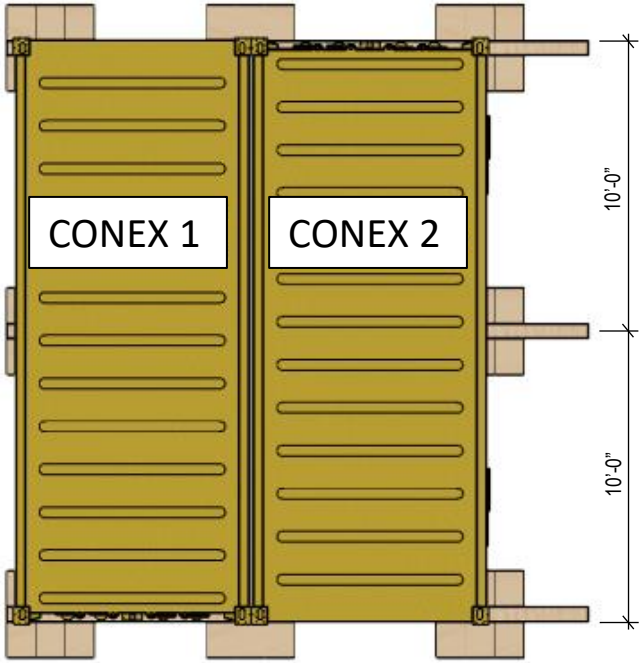
Parcel ID:	001.271.02	Creation date:	12/31/2010
Property address:	LOMEN AVE. (21A 11B)	Inactive date:	
City:	NOME	Zoning:	
State/Province:	AK	Subdivision:	
Zip/Postal code:		Township:	
Delivery point:		Range:	
Country/Region:		Section:	
Mail route:		Tract:	
County:		Serial number:	
Block:	21A	Taxing district:	City of Nome-Real
Lot:	11B	Last reviewed date:	
Unit number:		Subject to interest:	Yes
PIN:		Subject to penalty:	Yes
Latitude:			
Longitude:			
Number of units:	0		
Acreage:	0.0000		
Linear footage:	0.0000		
Square footage:	3860.0000		

Property summary

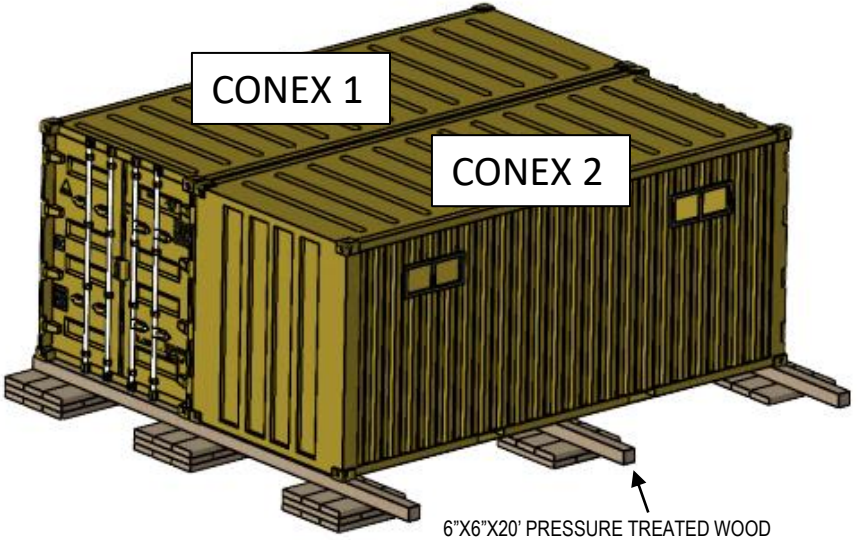
Total market value:	21,200.00
Total greenbelt value:	.00
Total exemption amount:	.00
Total taxable value:	21,200.00
Number of land records:	1
Number of building records:	1

Additional fields:

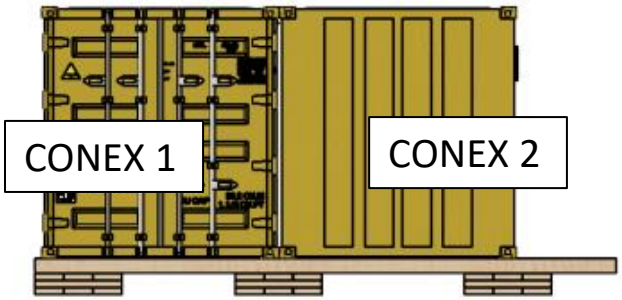
Field	Data
User-defined : Assessor Code	VACANT
User-defined : Exemption	
User-defined : Percent Exempt	
User-defined : Platt Number	96-14
User-defined : Water/Sewer	yes



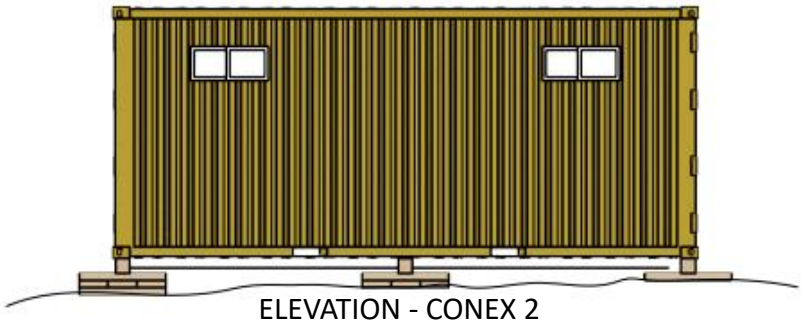
TOP



PERSPECTIVE



FRONT



ELEVATION - CONEX 2

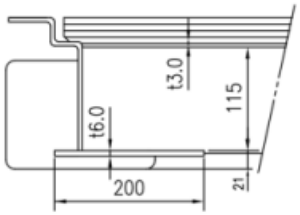
RIGHT

TITLE: SHEET 1 OF 8
NO SCALE

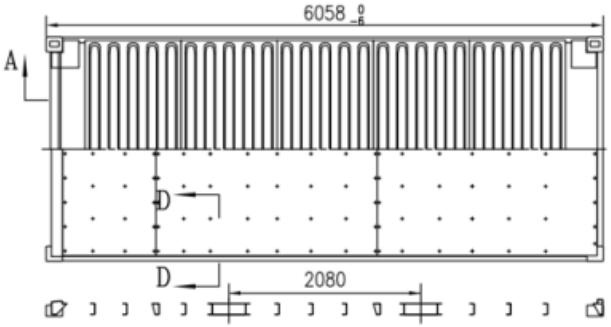
SIZE DWG. NO. C Bike Shop 28

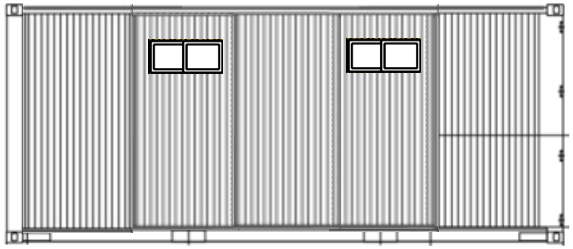
SCALE: 1:100 WEIGHT:

Item A.

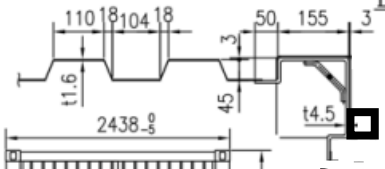


SECTION D–D
1:5

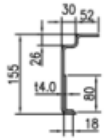




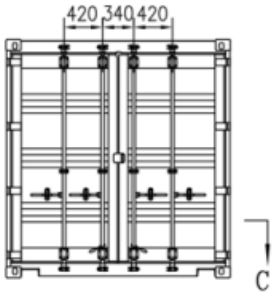
LEFT SIDE

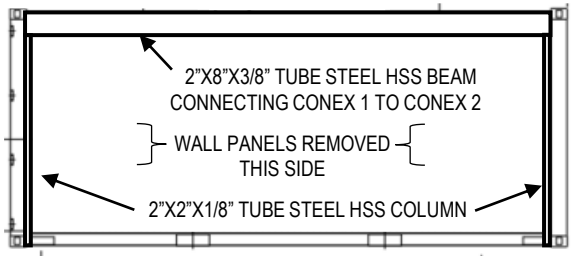


2"X2"X1/8" TUBE STEEL HSS COLUMN SUPPORTING 2"X8" TUBE STEEL BEAM

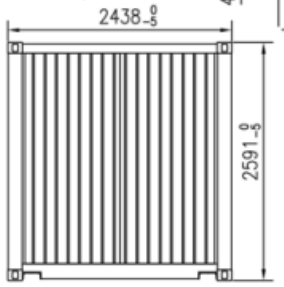


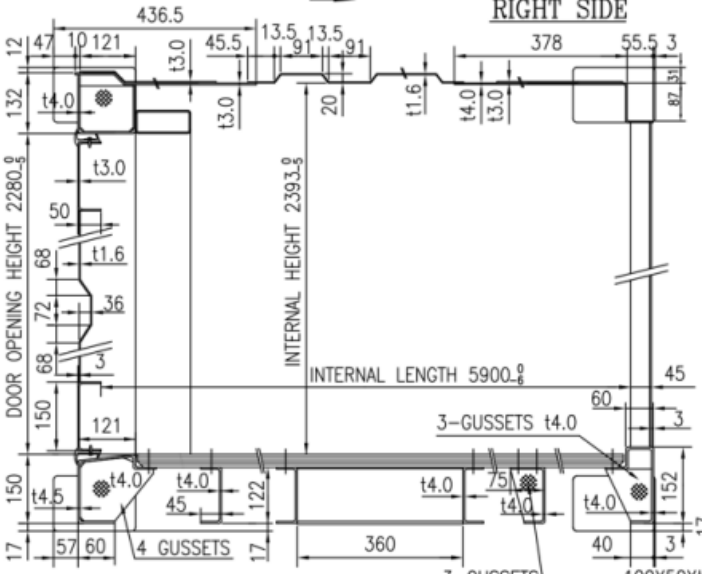
SECTION F–F



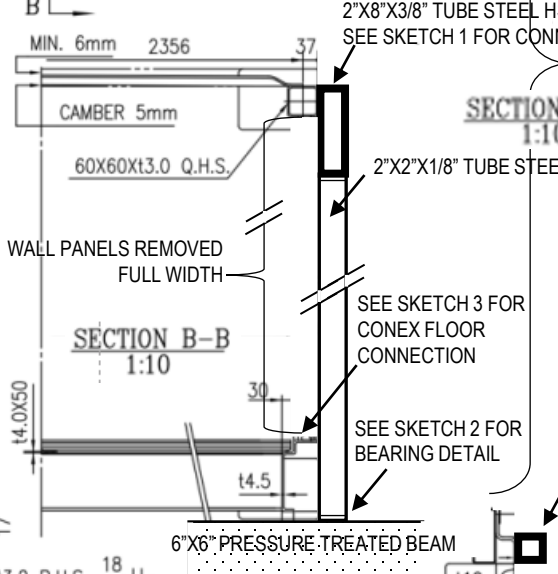


RIGHT SIDE





SECTION A–A
1:10



SECTION B–B
1:10

2"X8"X3/8" TUBE STEEL HSS BEAM CONNECTING CONEX 1 TO CONEX 2
SEE SKETCH 1 FOR CONNECTION DETAILS

WALL PANELS REMOVED FULL LENGTH

SECTION C–C
1:10

2"X2"X1/8" TUBE STEEL HSS COLUMN BEYOND

SEE SKETCH 3 FOR CONEX FLOOR CONNECTION

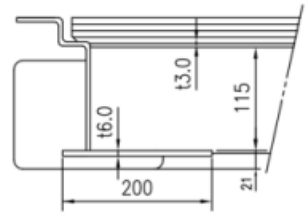
SEE SKETCH 2 FOR BEARING DETAIL

2"X2"X1/8" TUBE STEEL HSS COLUMN SUPPORTING 2"X8" TUBE STEEL BEAM

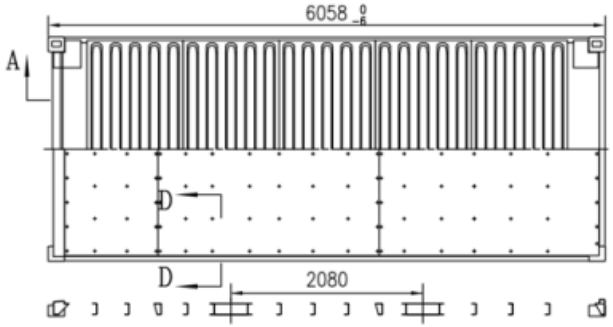
EXTERNAL	LENGTH	6,058	mm	19' 10"	ft
	WIDTH	2,438	mm	8' 0"	ft
	HEIGHT	2,591	mm	8' 6"	ft
INTERNAL	LENGTH	5,900	mm	19' 4"	ft
	WIDTH	2,352	mm	7' 8"	ft
	HEIGHT	2,393	mm	7'10"	ft
DOOR OPENING	WIDTH	2,340	mm	7' 8"	ft
	HEIGHT	2,280	mm	7' 5"	ft
INTERNAL CUBIC CAPACITY		33.2	CU.m	1,170	CU.ft
MAXIMUM GROSS WEIGHT		10,000	kg	22,046	lb

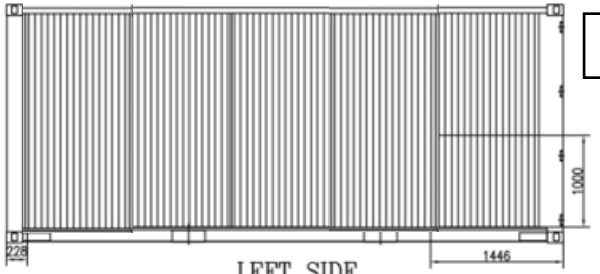
CONEX 1 W/ MODIFICATIONS
CONEX 2 SAME

Item A.

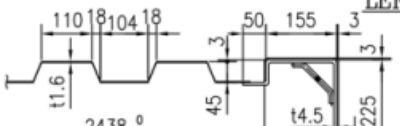


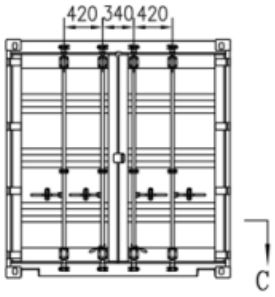
SECTION D–D
1:5

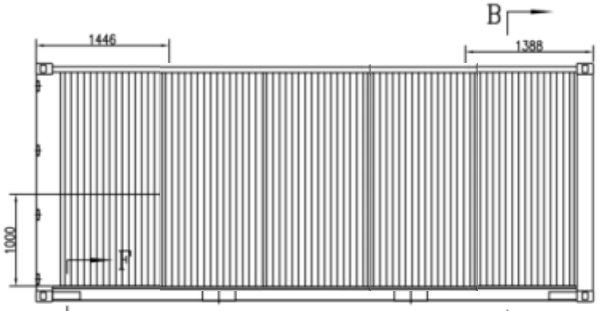




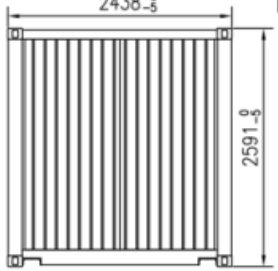
LEFT SIDE

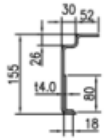




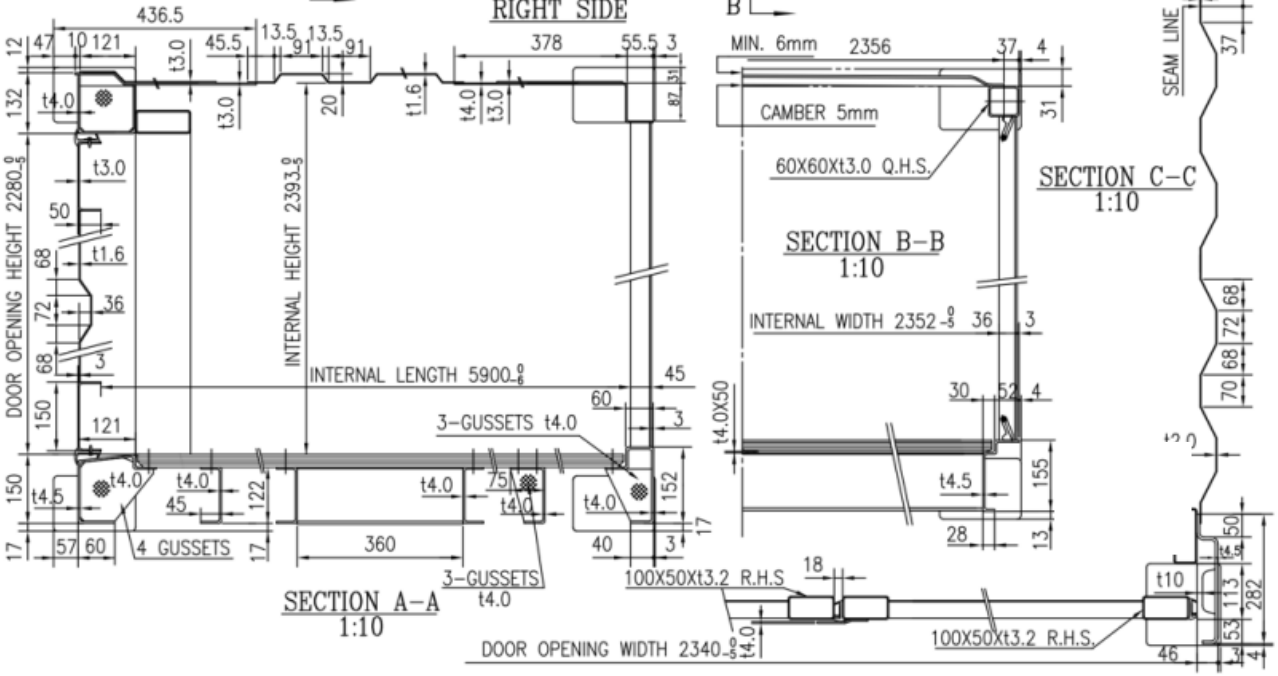


RIGHT SIDE





SECTION F–F



SECTION A–A
1:10

SECTION B–B
1:10

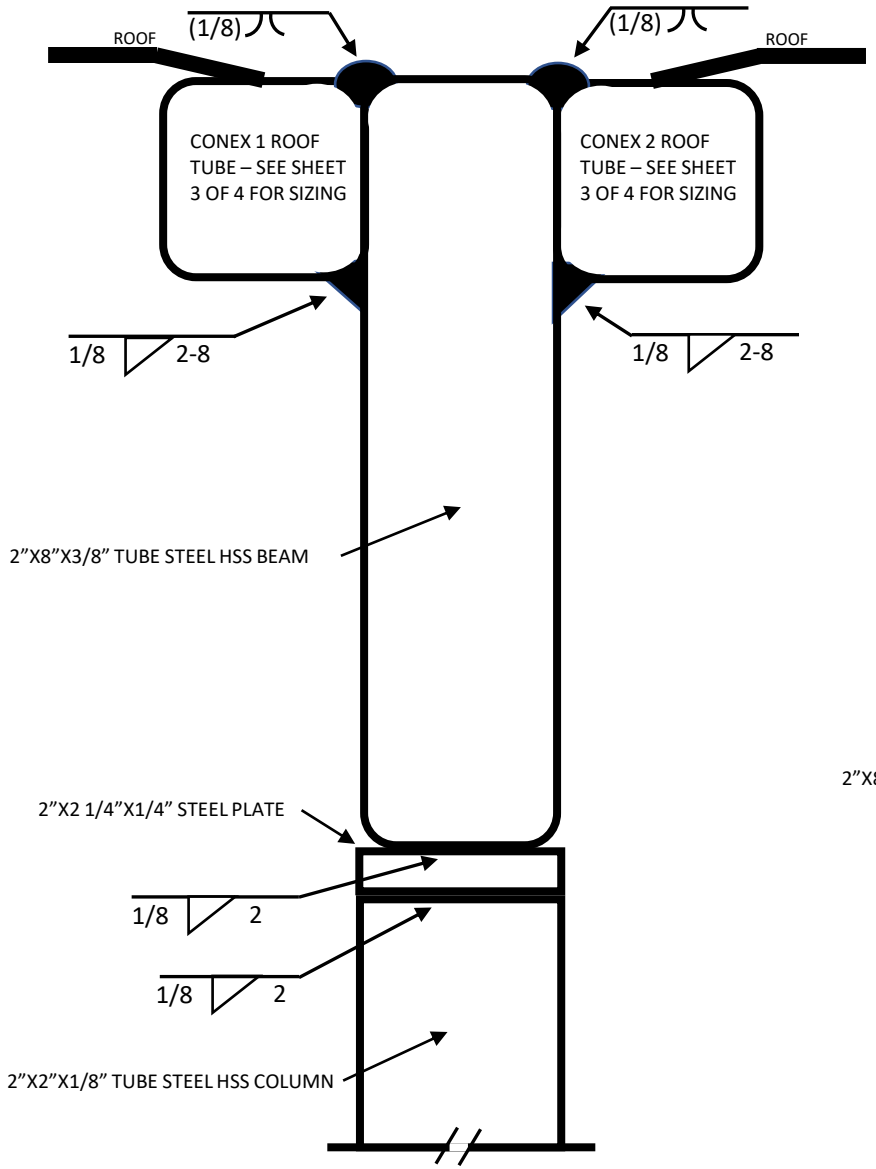
SECTION C–C
1:10

EXTERNAL	LENGTH	6,058	0 -6mm	19' 10 1/4"	0 -1/4"
	WIDTH	2,438	0 -5mm	8' 0"	0 -3/16"
	HEIGHT	2,591	0 -5mm	8' 6"	0 -3/16"
INTERNAL	LENGTH	5,900	0 -6mm	19' 4 3/4"	0 -1/4"
	WIDTH	2,352	0 -5mm	7' 8 1/2"	0 -3/16"
	HEIGHT	2,393	0 -5mm	7'10 1/4"	0 -3/16"
DOOR OPENING	WIDTH	2,340	0 -5mm	7' 8 1/8"	0 -3/16"
	HEIGHT	2,280	0 -5mm	7' 5 3/4"	0 -3/16"
INTERNAL CUBIC CAPACITY		33.2	CU.m	1,170	CU.ft
MAXIMUM GROSS WEIGHT		10,000	kg	22,046	lb

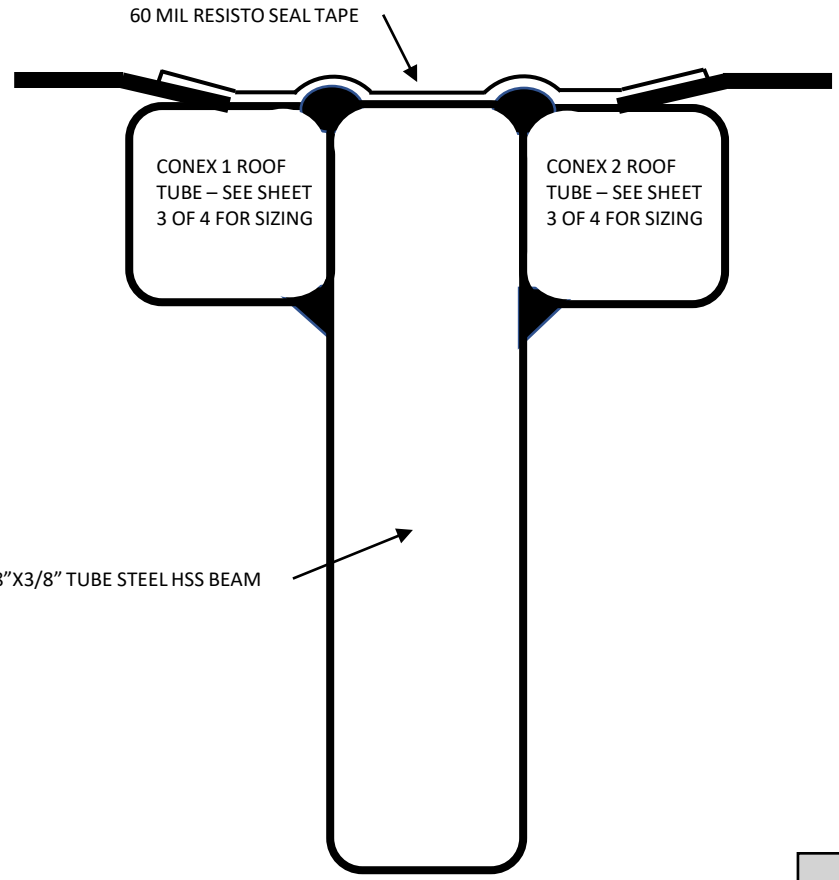
EXISTING CONEX 1
EXISTING CONEX 2
FOR REFERE

SKETCH 1

SKETCH 1A - STRUCTURAL TUBE ATTACHED TO CONEX TUBES & TUBE STEEL COLUMN (no scale)

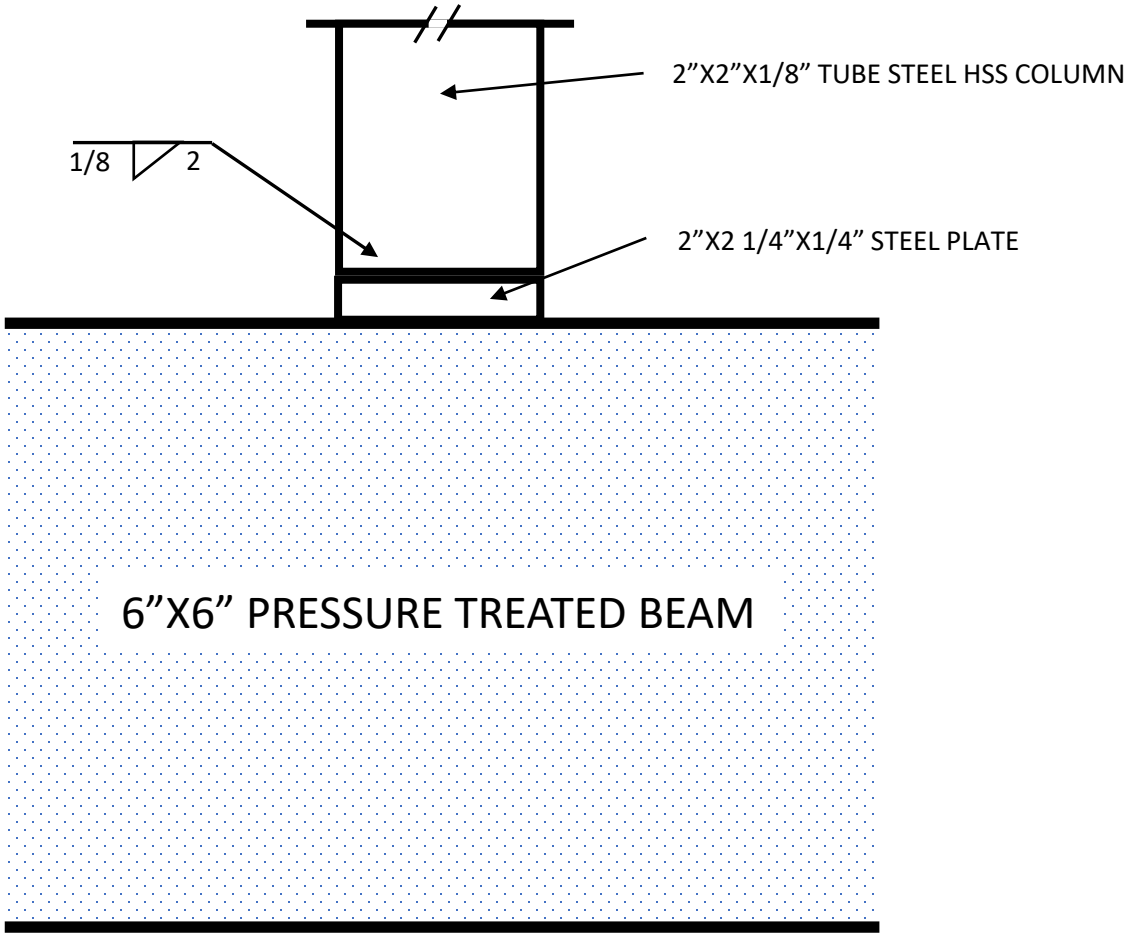


SKETCH 1B – APPLY 6” WIDE 60 MIL RESISTO SEAL TAPE OVER WELDED CONNECTION (no scale)



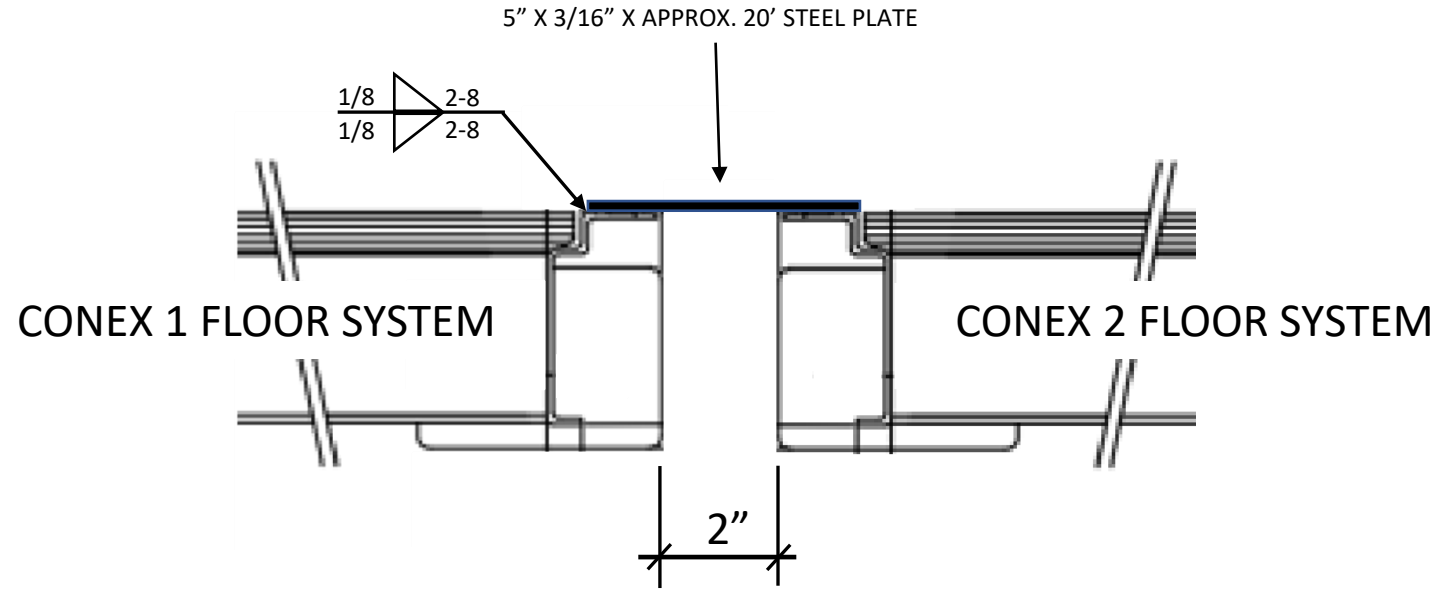
SKETCH 2

TUBE STEEL COLUMN BEARING ON 6X6 FOUNDATION BEAM (no scale)



SKETCH 3

STEEL PLATE BRIDGING CONEX 1 & CONEX 2 FLOOR SYSTEMS (no scale)



ENGINEERED CALCULATIONS FOR ADDED STEEL MEMBERS

Steel Properties:

$fy_{tube} := 46 \cdot ksi$ Tube Yield Strength

$E_s := 29300 \cdot ksi$ Steel Modulus of Elasticity

Design Info:

$Span := 20\ ft + 0\ in$ Member Span $Shape_{factor} := 1.19$

$trib\_width := 8\ ft + 0\ in$ Member tributary width

$Snow := 50\ psf$ Snow load

$DL := 10\ psf$ Dead load

$I_s := 38.2\ in^4$ Moment of inertia

Strength Reduction Factors:

$\phi_1 := .9$ $\phi_3 := .85$

$\phi_2 := .75$ $\phi_4 := 1.0$

Load Factors:

$D_{LF} := 1.2$

$S_{LF} := 1.6$

Beam Loading:

Service line load $w_s := (Snow + DL) \cdot (trib\_width)$ $w_s = 0.48\ \frac{kip}{ft}$

Ultimate line load $w_u := (S_{LF} \cdot Snow + D_{LF} \cdot DL) \cdot (trib\_width)$ $w_u = 0.74\ \frac{kip}{ft}$

Service moment $M_s := \frac{w_s \cdot Span^2}{8}$ $M_s = 288\ kip \cdot in$

Ultimate moment $M_u := \frac{w_u \cdot Span^2}{8}$ $M_u = 441.6\ kip \cdot in$

$Ru := \frac{w_u \cdot Span}{2}$ $Ru = 7.36\ kip$

Capacities:

$Z\_req := \frac{M_u}{\phi_1 \cdot fy_{tube}}$ $Z\_req = 10.67\ in^3$ < $z_1 = 13.09\ in^3$ **OK**

$\Delta := \frac{5 \left(w_s \cdot (Span)^4\right)}{384 \left(E_s \cdot I_s\right)}$ $\Delta = 1.54\ in$ < Δ Req = 1.6 in

OK Using Span/150

Check deflection assuming composite section with continuous weld

$\Delta\_req := \frac{Span}{240}$

Δ Req = Span/150
Req = 1.6 in

Per 2009 IBC, Table 1604.3, Note a – live load deflection shall not exceed l/150.

2009 IBC, Table 1604.3, Note a. For structural roofing and siding made of formed metal sheets, the total load deflection shall not exceed l/60. For secondary roof structural members supporting formed metal roofing, the live load deflection shall not exceed l/150. For secondary wall members supporting formed metal siding, the design wind load deflection shall not exceed l/90. For roofs, this exception only applies when the metal sheets have no roof covering.

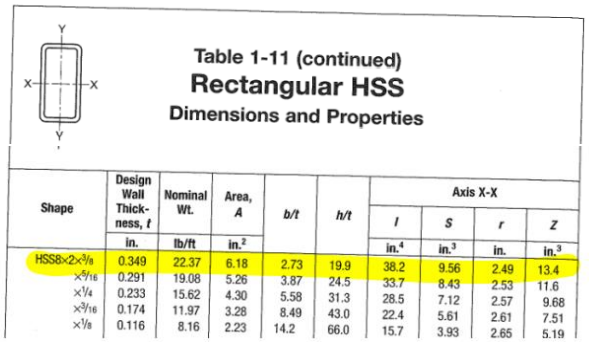


Table 1-11 (continued)
Rectangular HSS
Dimensions and Properties

Shape	Design Wall Thickness, t	Nominal Wt.	Area, A	b/t	h/t	Axis X-X I	Axis X-X S	Axis X-X r	Axis X-X Z
	in.	lb/ft	in.²			in.⁴	in.³	in.	in.³
HSS8×2×5/8	0.349	22.37	6.18	2.73	19.9	38.2	9.56	2.49	13.4
×9/16	0.291	19.08	5.26	3.87	24.5	33.7	8.43	2.53	11.6
×1/4	0.233	15.62	4.30	5.58	31.3	28.5	7.12	2.57	9.68
×9/16	0.174	11.97	3.28	8.49	43.0	22.4	5.61	2.61	7.51
×1/8	0.116	8.16	2.23	14.2	66.0	15.7	3.93	2.65	5.19

8	x	2	.500	28.40	
			.180	11.50	
			.250	15.60	
			.313	19.10	
			.375	22.40	12

$h_{st} := 2.375\ in \quad w_{st} := 2.375 \cdot in \quad t_{st} := \frac{1}{8} \cdot in \quad n_{st} := 2 \quad h_{lt} := 8\ in \quad w_{lt} := 2\ in \quad t_{lt} := \frac{3}{8} \cdot in$

$h_{position} := h_{lt} - h_{st}$

$$I_{lt} := \frac{\left(w_{lt} \cdot h_{lt}^{3}\right) - \left(\left(w_{lt} - 2 \cdot t_{lt}\right) \cdot \left(h_{lt} - 2 \cdot t_{lt}\right)^{3}\right)}{12 \cdot Shape_{factor}} \qquad I_{lt} = 38.35\ in^4 \qquad y_{lt} := \frac{h_{lt}}{2} \qquad A_{lt} := t_{lt} \cdot \left(2 \cdot h_{lt} + 2 \cdot w_{lt}\right)$$

$$I_{st} := \frac{\left(w_{st} \cdot h_{st}^{3}\right) - \left(\left(w_{st} - 2 \cdot t_{st}\right) \cdot \left(h_{st} - 2 \cdot t_{st}\right)^{3}\right)}{12 \cdot Shape_{factor}} \qquad I_{st} = 0.8\ in^4 \qquad y_{st} := \frac{h_{st}}{2} + h_{position} \qquad A_{st} := t_{st} \cdot \left(2 \cdot h_{st} + 2 \cdot w_{st}\right)$$

$$centroid := \frac{\left(A_{lt} \cdot y_{lt}\right) + \left(A_{st} \cdot y_{st}\right)}{A_{lt} + A_{st}} \qquad centroid = 4.38\ in$$

$$I`_{lt} := I_{lt} + A_{lt} \cdot \left(centroid - y_{lt}\right)^{2} \qquad I`_{st} := I_{st} + A_{st} \cdot \left(\left|centroid - y_{lt}\right|\right)^{2}$$

$$I\_total := I`_{lt} + \left(n_{st} \cdot I`_{st}\right) \qquad I\_total = 41.41\ in^4$$

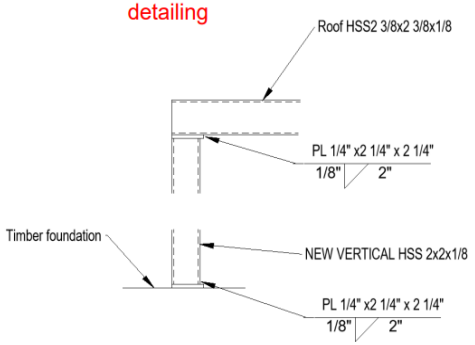
$$\Delta_{composite} := \frac{5 \left(w_s \cdot \left(Span\right)^4\right)}{384 \left(E_s \cdot I\_total\right)} \qquad \Delta_{composite} = 1.42\ in \quad < \quad \Delta \text{Req} = 1.6\ \text{in} \quad \textbf{OK Using Span/150}$$

Check support column design:

$$P_u := \frac{Ru}{2} \qquad P_u = 3.68\ kip \quad < \quad \phi Pn := 5.3\ kip$$

Assume 2x2x1/8" with 12' unbraced length

Proposed Column detailing



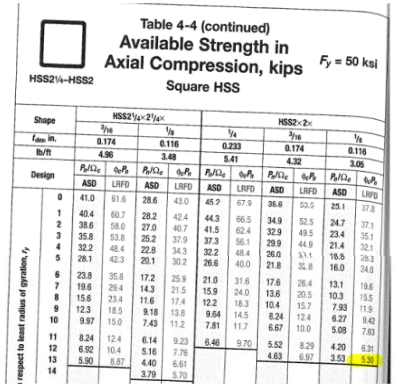


Table 4-4 (continued)
Available Strength in Axial Compression, kips
F_y = 50 ksi
HSS2½–HSS2
Square HSS

Shape		HSS2½×2½×				HSS2×2×				
		5/16		1/8		1/4		3/16		1/8
t_{des}, in.		0.174		0.116		0.233		0.174		0.116
lb/ft		4.96		3.48		5.41		4.32		3.06
Design		P_a/Ω_c	$\phi_c P_c$	P_a/Ω_c	$\phi_c P_c$	P_a/Ω_c	$\phi_c P_c$	P_a/Ω_c	$\phi_c P_c$	P_a/Ω_c	$\phi_c P_c$
		ASD	LRFD	ASD	LRFD	ASD	LRFD	ASD	LRFD	ASD	LRFD
r respect to least radius of gyration, r_y	0	41.0	61.6	28.6	43.0	45.2	67.9	36.6	55.0	25.1	37.8
	1	40.4	60.7	28.2	42.4	44.3	66.5	34.9	52.5	24.7	37.1
	2	38.6	58.0	27.0	40.7	41.5	62.4	32.9	49.5	23.4	35.1
	3	35.8	53.8	25.2	37.9	37.3	56.1	29.9	44.9	21.4	32.1
	4	32.2	48.4	22.8	34.3	32.2	48.4	26.0	39.1	18.5	28.3
	5	28.1	42.3	20.1	30.2	26.6	40.0	21.8	32.8	16.0	24.0
	6	23.8	35.8	17.2	25.9	21.0	31.6	17.6	26.4	13.1	19.6
	7	19.6	29.4	14.3	21.5	15.9	24.0	13.6	20.5	10.3	15.5
	8	15.6	23.4	11.6	17.4	12.2	18.3	10.4	15.7	7.93	11.9
	9	12.3	18.5	9.18	13.8	9.64	14.5	8.24	12.4	6.27	9.42
	10	9.97	15.0	7.43	11.2	7.81	11.7	6.67	10.0	5.08	7.63
	11	8.24	12.4	6.14	9.23	6.46	9.70	5.52	8.29	4.20	6.31
	12	6.92	10.4	5.16	7.76			4.63	6.97	3.53	5.30
	13	5.90	8.87	4.40	6.61						
	14			3.79	5.70						

Building/Remodel Permit Summary

Updated 1

NAME	ADDRESS	MONTH	PERMIT #	ISSUE DATE	BUILDING PERMIT		REMODEL PERMIT		TOTAL
					VALUE	FEE	VALUE	FEE	TOTAL
	JANUARY								
Patrick J Krier	314 W. 1st Ave.		22-02R	1/5/2022			$7,500.00	$174.25	$174.25
Brendan Gologergen-Tran	311 Lester Bench Rd.		22-01B	1/20/2022	$22,000.00	$349.25			$349.25
	FEBRUARY								
Kalla Peacock & Jason Evans	216 W. 3rd Ave.		MyGov 22-01R-EXT-2019-52R	2/11/2022			$12,000.00	$237.25	$237.25
		MARCH							
Kirstie Henry	704 W. 1st Ave.		MyGov 22-02R	3/25/2022			$160,000.00	$1,329.74	$1,329.74
		APRIL							
CARR Gottstein Foods	415 Bering St.		MyGov 22-03R	4/5/2022			$170,000.00	$1,385.74	$1,385.74
Maureen & Robert Koezuna	100 East 4th Ave.		MyGov 22-04B	4/6/2022	$20,000.00	$321.24			$321.24
		MAY							
Nathan Nagaruk	403 E. 6th Ave.		MyGov 22-09R	5/3/2022			$10,000.00	$181.24	$181.24

NAME	ADDRESS	MONTH	PERMIT #	ISSUE DATE	BUILDING PERMIT		REMODEL PERMIT		TOTAL
					VALUE	FEE	VALUE	FEE	TOTAL

		JUNE							
		JULY							
NAME	**ADDRESS**	**MONTH**	**PERMIT #**	**ISSUE DATE**	**BUILDING PERMIT**		**REMODEL PERMIT**		**TOTAL**
					VALUE	**FEE**	**VALUE**	**FEE**	**TOTAL**

	AUGUST								
	SEPTEMBER								
NAME	**ADDRESS**	**MONTH**	**PERMIT #**	**ISSUE DATE**	**BUILDING PERMIT**		**REMODEL PERMIT**		**TOTAL**
					VALUE	**FEE**	**VALUE**	**FEE**	**TOTAL**
	OCTOBER								

NOVEMBER									
	DECEMBER								
TOTAL: 92					**$42,000.00**	**$670.49**	**$359,500.00**	**$3,308.22**	**$3,978.71**