

**TROY BOARD OF SELECTMEN MEETING
THURSDAY, AUGUST 6, 2026, 6:00 P.M.
TOWN HALL**

- 1. CALL TO ORDER**
- 2. BOARD MEMBER COMMENTS**
- 3. PUBLIC COMMENTS**
 - **RICHARD HKS THACKSTON: SPEED PATROL**
- 4. NEW BUSINESS**
 - A. BUILDING PERMITS**
 - **#2026-17: MAP 34, LOT6**
 - **#2026-18: MAP 27, LOT 19 (T-MOBILE CELL TOWER)**
 - **#2026-19: MAP 14, LOT 12C-2**
 - **#2026-20: MAP 28, LOT 7 (SOLAR)**
 - **#2026-21: MAP 29, LOT 1**
 - B. TAX ABATEMENTS**
 - **#1072- MAP 7, LOT 24**
 - **#1073- MAP 5, LOT 27**
 - **#1075- MAP 13, LOT 31**
 - C. EXPENDABLE TRUST FUND (ETF) USE APPROVAL:**
 - **PC PURCHASES: COMPUTER TECHNOLOGY FUND**
 - **WATER/SEWER FUND**
 - D. CIP APPOINTMENT: MEGAN CONVERSANO**
 - E. FALL 2026 ELECTIONS CANDIDATES' FORUM: SCHEDULING**
 - F. DRIVEWAY PERMIT: 47 SCHOOL STREET & DRIVEWAY REGULATIONS**
 - G. INTENT TO CUT: MAP 17, LOT 37**
 - H. ALCOHOL PERMIT: COMMUNITY CENTER EVENT 9/13**
 - I. EVENT PERMIT #2026-03: 2026 CHESHIRE DEPOT DAY, 10/3**
 - J. FINANCE & BENEFITS COORDINATOR POSITION**
- 5. OLD BUSINESS**
 - A. TRANSFER STATION USE BY TOWN DEPARTMENTS**
 - B. ROAD AGENT- WINTER OT**
- 6. CONSENT AGENDA**
 - A. RECENT MANIFEST & PAYROLL**
 - B. MEETING MINUTES: JULY 2, 2026 PUBLIC & NON-PUBLIC**
- 7. BOARD CORRESPONDENCE**
- 8. ADMIN REPORT**
- 9. NON-PUBLIC SESSION, UNDER NH RSA 91-A:3, II (IF NECESSARY)**
- 10. ADJOURN**

4A-1

2026-17
\$480.00
Paid ✓



Please post in a conspicuous location

TOWN OF TROY, NH

PERMIT TO PERFORM WORK

PURSUANT TO RSA 154

Richard Cadmus

has been

Issued Permit No. 2026-17, to erect (X), alter (),

25x48 Barn/Garage approx. 150' from road. 50' from

home

at: 115 Mackey Road Tax Map 34 Lot 6

Date

Authority Having Jurisdiction

Expiration Date

This document must be completed and returned to the Administrative Assistant with all applicable signatures upon completion of work.

Please see reverse side for required signs upon completion.

Please remember that buildings or portions of buildings shall not be occupied during construction, repair, or alteration without the approval of the appropriate authority.

INSPECTIONS

**APPROVAL
SIGNATURE**

DATE

HEALTH OFFICER

WATER/SEWER

DRIVEWAYS

FIRE CHIEF

CODE ENFORCEMENT
OFFICER

FINAL COMPLETION/OCCUPANCY PERMIT



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\$480.00
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INSPECTIONS	APPROVAL SIGNATURE	DATE
HEALTH OFFICER		
WATER/SEWER		
DRIVEWAYS		
FIRE CHIEF		
CODE ENFORCEMENT OFFICER		
FINAL COMPLETION/OCCUPANCY PERMIT		



Town of Troy Permit Application
16 Central Square
Troy, NH. 03465
(603)242-7722

N Permit #

2026-17

Permit fee

\$480.00 ✓

Selectmen's Office

Property Information-Where improvements are proposed

Street # 115 Street Name MACKEY RD. Map/Lot 34/6
Zoning Rural Floodplain _____ Wetlands _____ Elevation Certification _____

JUL 06 2026

Is this property a conforming lot?

(Please see Zoning Ordinance or contact the Selectmen's Office for clarification)

Town of Troy, NH

Owner Information-Who owns the property

Name: RICHARD T. CADMUS Address: 115 MACKEY RD.
City/State/Zip: TROY N.H. 03465
Phone # 603 903 9677 Email: rcadmusrick@gmail.com *Preferred*

Applicant Information-If not the owner of the property

Name: _____ Address: _____
City/State/Zip: _____
Phone # _____ Email: _____
Name of Contact for this Project: _____ Phone: _____

Applicant Information-Describe proposed improvements

Permit Type: ☐ Building ☒ Electrical ☐ Plumbing ☐ Other _____
Building Use: ☐ Single family ☐ Multi-Family ☐ Commercial ☐ Other _____
Work Type: New ☐ Addition ☐ Renovation ☐ Move ☐ Other Sq. Ft. of work to be done: 2400

Description of work: I WOULD LIKE TO BUILD A 25 X 48 FT BARN/GARAGE
APROX 150' FT FROM TOWN RD. 50 FT FROM EXISTING
HOME STRUCTURE

Plumbing and Electrical sub-contractors-Signature indicates responsibility for compliance with laws and codes

Electrical contractor-State License Number: _____ Exp. Date: _____

Name: _____ Address: _____

City/State/Zip: _____

Phone # _____ Email: _____

License Holders Signature: _____ Date: _____

Plumbing Contractor- State License Number: _____ Exp. Date: _____

Name: _____ Address: _____

City/State/Zip: _____

Phone # _____ Email: _____

License Holders Signature: _____ Date: _____

Heating and Air Conditioning Contractor- State License Number:

Exp.Date: _____

Name: _____ Address: _____

City/State/Zip: _____

Phone # _____ Email: _____

License Holders Signature: _____ Date: _____

Design Professional-Responsible Architect or Engineer

Name: _____ Address: _____

City/State/Zip: _____

Phone # _____ Email: _____

Please note the following by checking the appropriate lines:

This property is to be hooked up with _____ Town water and/or _____ Town Sewer.

OR

This property will be hooked up to _____ private well and/or _____ septic.

☒ **ESC**

I hereby certify that as the applicant for permit, I am the owner of this property ☒ or the owner's authorized agent ____ (check one). I hereby declare that the statements and information contained in this application and submitted in conjunction with said application are true and accurate to the best of my knowledge. I understand that I am responsible to ensure all construction or other work will be completed in accord with all Federal, State and Local Laws, code and ordinances, including but not limited to the State Building Code NHRSA 155-A. **I understand that I am responsible to ensure that all inspections will be completed as required by the Town, and no structure will be used in violation of Federal, State, and Local Laws, code and ordinances.** The making of false statement on this form shall constitute a criminal offense.

Applicant printed name: RICHARD T. LADNICKS

Applicant signature: Richard T. Ladnick Date: JULY 6, 2026

BUILDING PERMIT FEES & INFORMATION

1. Major Requirements for Permits:

- a. All Zoning Ordinance requirements must be met.
- b. Must have State permit for septic systems or file an application for a Town Sewer connection.
- c. Approved Driveway permit from Town
- d. Three (3) sets of building plans and plot plans showing location and setbacks of project.
- e. Must establish drinking water source. (Private well or Town water). A copy of the water source plan is required with application.
- f. Floodplain
- g. Elevation certification.
- h. American Disability Association compliance-if applicable.

2. Inspections: *It is the responsibility of the owner to insure inspections are completed on time. See attached Building Inspection Schedule and Criteria.*

Permit fees are as follows:

New Construction – Manufactured or Modular	\$0.15 per square foot
New Construction – Stick Built	\$0.20 per square foot
Outbuildings/Carports/Decks/Porches/Sheds (Does not include temporary = six months or less.)	Up to 200 square feet, no permit required. 200 square feet and over = \$35.00 plus \$0.35 per square foot thereafter, and permit required.
Fences	\$35.00
Pools	\$35.00
Barns/Garages/Additions	\$0.20 per square foot $\times 2400.00 = \$480.00$
New Commercial up to 2000 square feet	\$0.25 per square foot
New Commercial over 2000 square feet	\$0.35 per square foot
New Multifamily	\$0.35 per square foot
Solar/Wind or Generator	Residential \$0.00 Commercial \$45.00
Reinspections	\$50.00
Addition or deletion of a kitchen or bathroom (Does not apply to renovation of existing kitchens or bathrooms.)	\$50.00
Addition, deletion, or substantial modification of the foundation of an existing building (Does not include sill repairs, under pinning, repair, drainage, buttressing, walk-ways, stoops, bulkheads, driveways or patios.)	\$0.20 per square footage of a project area
Significant changes to previously submitted open permits (Significant for this purpose would be the addition or deletion of more than 200 square feet and addition or deletion of a kitchen or bathroom. Additionally, applicant is still responsible for difference in original calculated permit fee.)	\$50.00
Approved additional Dwelling Unit to be added to an existing property either by modification or addition	\$0.20 per square foot
Addition of an electrical meter (Does not include replacement or upgrade of existing meters or conversion from single phase to three phase service.)	\$50.00
Extension of any existing open permit for one-year. (All permits expire one year from date of issue. No permit may be extended more than twice for a total of three years on one application. If a permit remains open and the project remains incomplete at the expiration of permits all work must cease on the project until such time as a new permit is issued. If a permit has been extended twice and the project remains incomplete, a new application must be submitted to confirm that the project remains within the current regulations.)	\$50.00
Final Inspection Fee (Any permit that requires inspection that has not received a final inspection and sign off will be considered open and active until expiration. Individuals authorized to sign off on permits: Fire Chief, Building Inspector that is authorized or designated by the Select Board, or any two members of the Select Board.)	\$50.00

Electrical/Plumbing/Mechanical is included in all other permits.

THE FOLLOWING ITEMS DO NOT REQUIRE INSPECTION:

Meaning but not limited to replacement parts, fences less than six feet, like and kind replacement, painting, papering, tiling, reroofing, residing, carpet, toilets, faucets, and similar work. The following items do not require permit but must meet New Hampshire Emergency code: Reroofing residing, replacement doors and windows or emergency egress windows and doors, electrical meters(contact local electric company to clarify).

To contact inspectors, please call the following:

Fire Chief: Mark Huntoon 603-499-2051

Building Inspector: Mike Mastaler 603-499-1068 or BuildingCode@Troy.NH.Gov

The Town of Troy currently contracts with an individual to perform inspections on an as needed/wanted basis. The staff at Town Hall will contact the Building Inspector to schedule visits, as needed.

Permits for new construction of homes, additions, garages and barns require at least 4 inspections. These inspections are paid for by the building permit applicant at a rate of \$50 per hour for both the inspection itself and travel time, as well as mileage at the current IRS reimbursement rate (\$0.725 as of June 2026). ***Should your inspection fall on the same day as another in Town, the cost for travel will be split amongst the inspection appointments that day.***

The Four Inspections Required, At Minimum, Are As Follows:

- 1) Ground, drainage and foundation inspection
- 2) Rough framing, rough electrical and rough plumbing
- 3) Insulation inspection
- 4) A final inspection for the Certificate of Occupancy

****Failure to adhere to these inspection requirements or the direction of the Building Inspector, Code Enforcement Officer, or Fire Chief could delay the issuance of a Certificate of Occupancy.****

To inquire about building permits or building inspections,
please contact the Selectmen's Office at 603-242-7722 Ext. 1
or you can e-mail the Building Inspector directly: BuildingCode@Troy.NH.Gov

TROY SELECT BOARD:

Jody McDermott, Chair

Richard H. Thackston, III, Selectman

TJ Chasse, Selectman



Town of Troy

16 Central Square - PO Box 249 - Troy, New Hampshire 03465

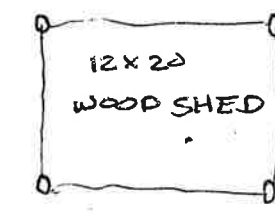
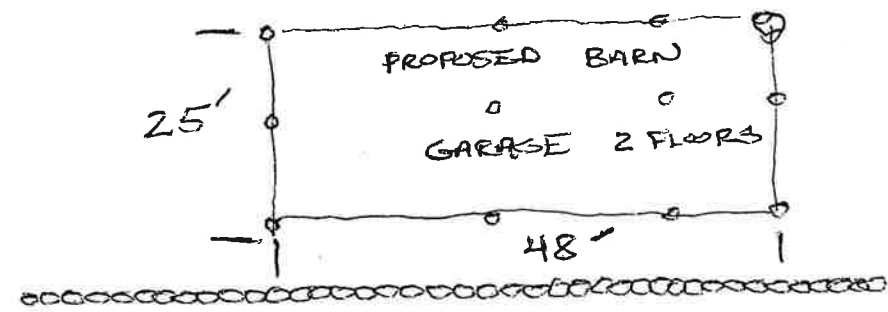
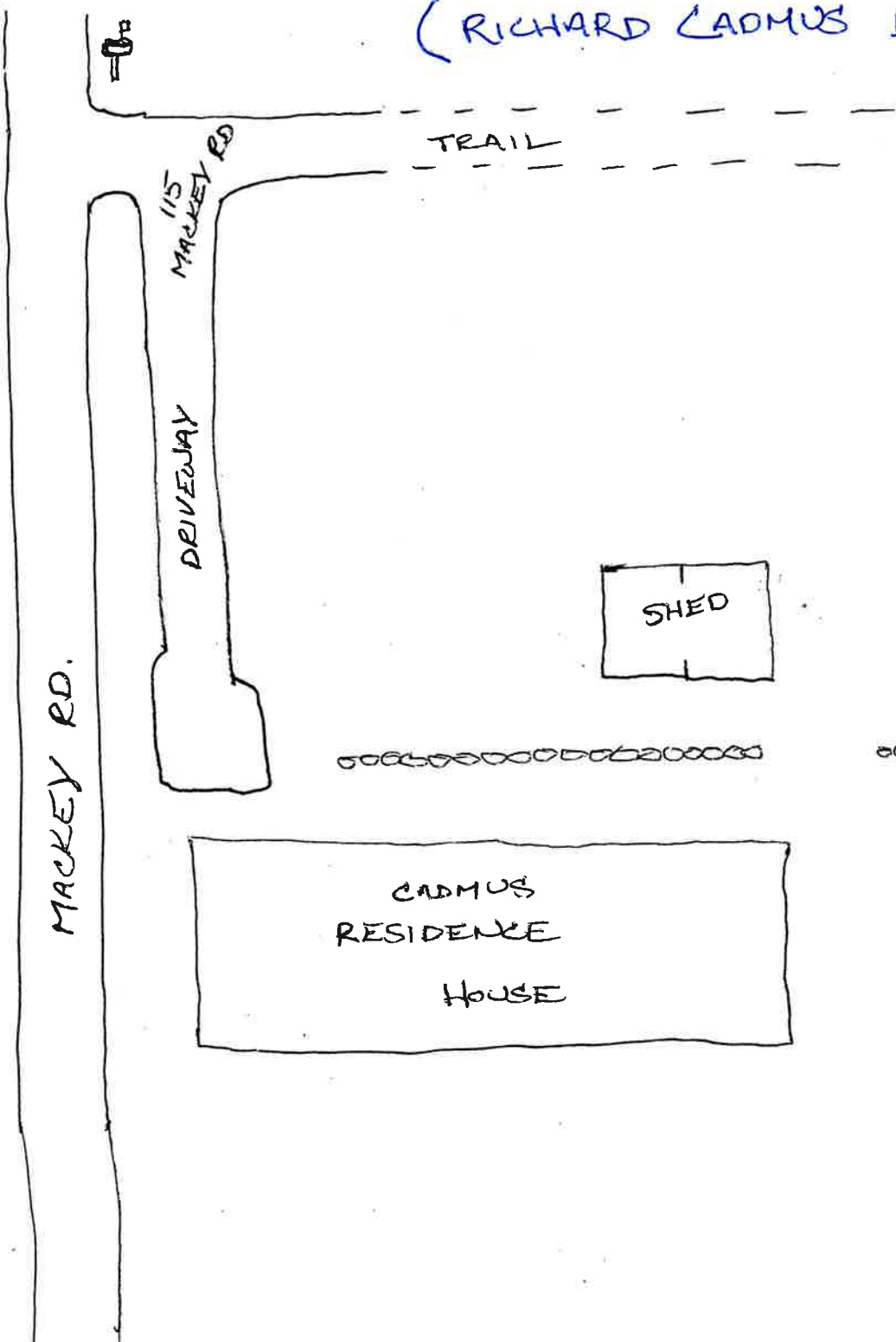
Congratulations on beginning your new project!

You have completed the first step; you have successfully obtained a building permit.

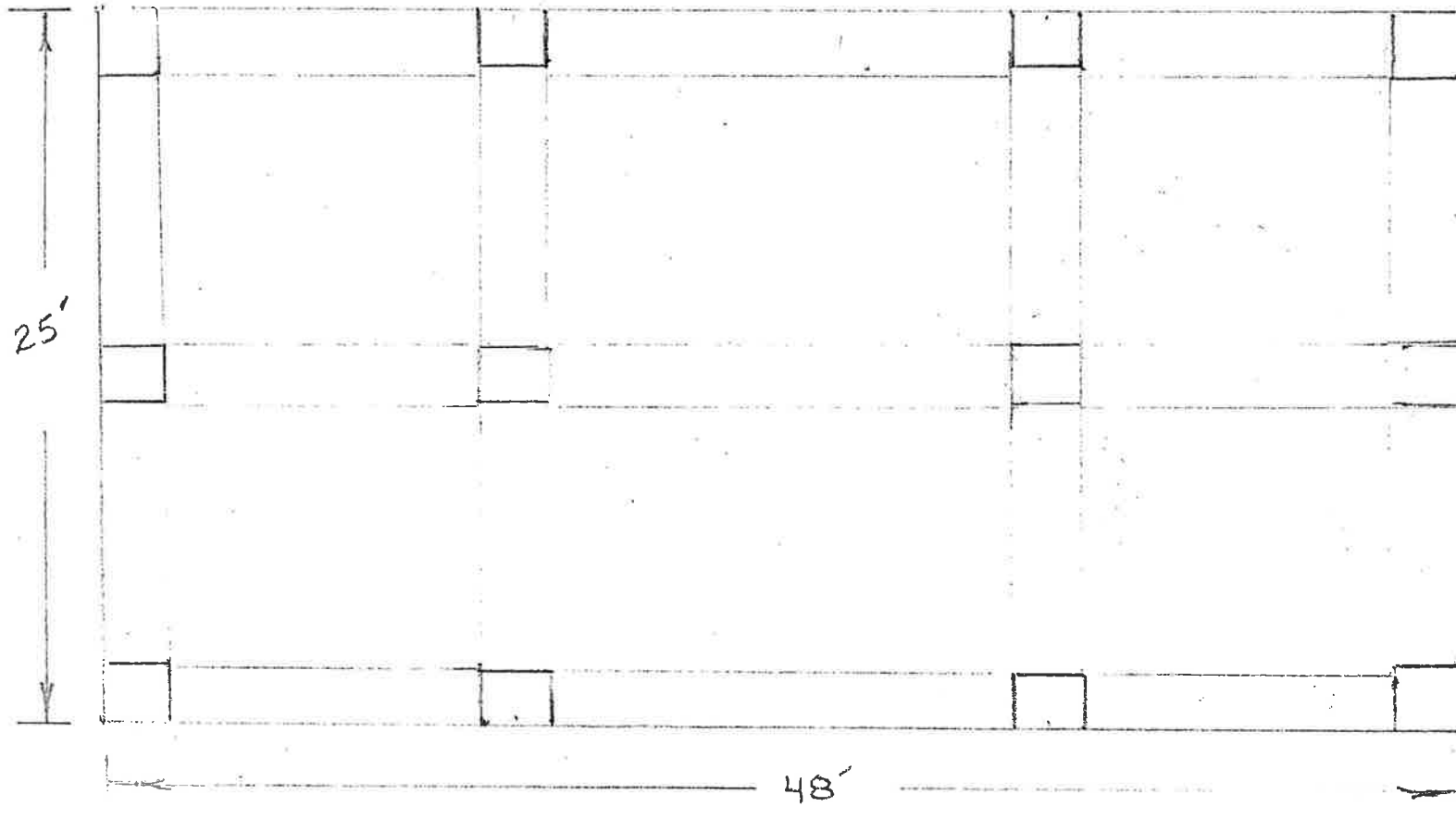
There are some important things we want to make sure you know about the Permit and the process in the Town of Troy.

1. Your permit expires one year from date of issuance. Prior to the expiration of your permit, you must take one of three actions to close out your permit or your file will reflect an open permit with incomplete work which may raise issues for you in a future sale or re-finance. These problems are not the responsibility of the Town of Troy.
 - a. Option One: You have completed your work as permitted within the one-year time frame and you call the town for a final inspection which the Town issues within a week to ten days.
 - b. Option Two: You do not complete your work within the one-year time frame, and you obtain an extension to your permit for an additional year.
 - c. Option Three: You complete your work; you do not call for a final inspection the permit remains open and expired. You would be subject to any future rules as applicable if at a future time you attempt to re-permit your project.
2. Your permit entitles you to do work but does not cover the cost of any inspections. The Town of Troy expects you to complete work in a competent and skillful manner or hire professional who are licensed in relevant trades to do such work. If you are not competent or your contractors are not licensed or competent it is not the responsibility of the Town of Troy.
 - a. If you have a loan for your project that requires interim inspections, you will need to arrange and pay for these inspections. The Town of Troy does not pay for interim inspections.
 - b. If you are not sure of how to complete your work and need to consult with a building inspector or engineering firm, you must do so at your cost. The Town of Troy does not provide or pay for any such services.
 - c. The Town of Troy does not do septic system inspections. Septic installations are between you, your designer, your installer, and the State of NH. Troy does not allow new installations of Privies.
3. The Town of Troy specifically does not require or pay for the following inspections: Footing Inspections, Drainage Inspections, Dry Bed Septic Field Inspections, Backfill Inspections, Grading Inspections, Electrical Inspections, Plumbing Inspections, Insulation Inspections, Foundation Inspections, Close-In Inspections, Sewer Line Inspections. Heating System installations will be inspected by the Fire Chief or designee at the time of Final Inspection/Issuance of Certificate of Occupancy.
4. Final Inspections/Issuance of Certificate of Occupancy must be scheduled a week to ten days in advance.

(RICHARD CADMUS BUILDING PERMIT APPLICATION)



(RICHARD LADMUS BUILDING PERMIT APPLICATION)
115 MACKEY RD.
TROY, N.H. 03465



4A-2

2026-18
NO FEE ✓



Please post in a conspicuous location

TOWN OF TROY, NH

PERMIT TO PERFORM WORK

PURSUANT TO RSA 154

NH #1 Rural Cellular, Inc. has been

Issued Permit No. 2026-18, to erect (), alter (X),

T-Mobile to install (3) new antenna on existing Mount and (1) hybrid line.

at: 67 West hill Road Tax Map 27 Lot 19

Date

Authority Having Jurisdiction

Expiration Date

This document must be completed and returned to the Administrative Assistant with all applicable signatures upon completion of work.

Please see reverse side for required signoffs upon completion.

Please remember that buildings or portions of buildings shall not be occupied during construction, repair, or alteration without the approval of the appropriate authority.

INSPECTIONS	APPROVAL SIGNATURE	DATE
HEALTH OFFICER		
WATER/SEWER		
DRIVEWAYS		
FIRE CHIEF		
CODE ENFORCEMENT OFFICER		
FINAL COMPLETION/OCCUPANCY PERMIT		



2026-18
NO FEE ✓

Please post in a conspicuous location

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INSPECTIONS

**APPROVAL
SIGNATURE**

DATE

HEALTH OFFICER

WATER/SEWER

DRIVEWAYS

FIRE CHIEF

CODE ENFORCEMENT
OFFICER

FINAL COMPLETION/OCCUPANCY PERMIT



Town of Troy Permit Application
16 Central Square
Troy, NH. 03465
(603)242-7722

N Permit #
2026-18
Permit fee
NO FEE ✓

Property Information-Where improvements are proposed

Street # 67 Street Name West Hill Road Map/Lot 27-19-0
Zoning Rural Floodplain N/A Wetlands N/A Elevation Certification N/A

Is this property a conforming lot? N/A

(Please see Zoning Ordinance or contact the Selectmen's Office for clarification)

Owner Information-Who owns the property

NH #1 RURAL CELLULAR, INC.
Name: C/O DUGG & PHELPS, LLC Address: 67 WEST HILL RD
City/State/Zip: _____
Phone # _____ Email: _____

Applicant Information-If not the owner of the property

Name: Victoria Masse-Sipe Address: 305 Whipple Ave, Apt 2
City/State/Zip: Oakland RI 02858
Phone # 860-306-236 Email: vsipe@tepgroup.net

Name of Contact for this Project: Victoria Masse-Sipe Phone: 860-306-2326

Applicant Information-Describe proposed improvements

Permit Type: ☐ Building ☒ Electrical ☐ Plumbing ☐ Other _____
Building Use: ☐ Single family ☐ Multi-Family ☐ Commercial ☒ Other _____
Work Type: New ☐ Addition ☒ Renovation ☐ Move ☐ Other Sq. Ft. of work to be done _____

Description of work: T-Mobile to install (3) new antenna on existing mount and (1) hybrid line.

Plumbing and Electrical sub-contractors-Signature indicates responsibility for compliance with laws and codes

Electrical contractor-State License Number: 566 A-1 Exp. Date: _____

Name: Timberline Communications Address: 300 Pine St

City/State/Zip: Canton, MA 02021

Phone # _____ Email: _____

License Holders Signature: _____ Date: _____

Plumbing Contractor- State License Number: _____ Exp. Date: _____

Name: _____ Address: _____

City/State/Zip: _____

Phone # _____ Email: _____

License Holders Signature: _____ Date: _____

Heating and Air Conditioning Contractor- State License Number:

Exp.Date: _____

Name: _____ Address: _____

City/State/Zip: _____

Phone # _____ Email: _____

License Holders Signature: _____ Date: _____

Design Professional-Responsible Architect or Engineer

Name: Scott C Brantley Address: 45 Beechwood Dr

City/State/Zip: North Andover, MA 01845

Phone # _____ Email: _____

Please note the following by checking the appropriate lines:

This property is to be hooked up with _____ Town water and/or _____ Town Sewer. N/A

OR

This property will be hooked up to _____ private well and/or _____ septic. N/A

☒

I hereby certify that as the applicant for permit, I am the owner of this property __, or the owner's authorized agent X (check one). I hereby declare that the statements and information contained in this application and submitted in conjunction with said application are true and accurate to the best of my knowledge. I understand that I am responsible to ensure all construction or other work will be completed in accord with all Federal, State and Local Laws, code and ordinances, including but not limited to the State Building Code NHRSA 155-A. **I understand that I am responsible to ensure that all inspections will be completed as required by the Town, and no structure will be used in violation of Federal, State, and Local Laws, code and ordinances.** The making of false statement on this form shall constitute a criminal offense.

Applicant printed name: Victoria Masse-Sipe

Applicant signature: Victoria Masse-Sipe Date: 6/12/2026

BUILDING PERMIT FEES & INFORMATION

1. Major Requirements for Permits:

- a. All Zoning Ordinance requirements must be met.
- b. Must have State permit for septic systems or file an application for a Town Sewer connection.
- c. Approved Driveway permit from Town
- d. Building plans and plot plans showing location and setbacks of project.
- e. Must establish drinking water source. (Private well or Town water). A copy of the water source plan is required with application.
- f. Floodplain
- g. Elevation certification.
- h. American Disability Association compliance-if applicable.

2. Inspections: *It is the responsibility of the owner to insure inspections are completed on time. See attached Building Inspection Schedule and Criteria.*

Permit fees are as follows:

New Construction Manufactured or Modular: .15¢ per square foot

New Construction Stick Built: .20¢ per square foot

Outbuildings/Carports/Decks and Porches (does not include temporary=six months or less) up to 200 square feet, no permit required. 200 square feet and over = \$35 plus .35¢ per square foot thereafter, and permit required.

Sheds up to 200 square feet, no permit required. 200 square feet and over = \$35 plus .35¢ per square foot thereafter, and permit required.

Pools and fences(less than six feet) \$35 (if pool is inground)

Barns/Garages/Additions .20¢ per square foot

New Commercial up to 2000 square feet.25¢ per square foot

New Commercial over 2000 square feet .35¢ per square foot

New Multifamily .35¢ per square foot

Solar/Wind or Generator Residential \$0 Commercial \$45

Reinspections \$50

Demolition \$50-point of destination required for materials.

Driveway -Town Roads only \$50.00

Electrical/Plumbing/Mechanical is included in all other permits

ALL PERMITS EXPIRE ONE YEAR FROM DATE OF ISSUE, CHARGE TO RENEW IS \$50.

THE FOLLOWING ITEMS DO NOT REQUIRE INSPECTION:

Meaning but not limited to replacement parts, fences less than six feet, like and kind replacement, painting, papering, tiling, reroofing, residing, carpet, toilets, faucets, and similar work. The following items do not require permit but must meet New Hampshire Emergency code: Reroofing residing, replacement doors and windows or emergency egress windows and doors, electrical meters(contact local electric company to clarify).

To contact inspectors, please call the following:

Fire Chief: Mark Huntoon (603)499-2051

TROY SELECT BOARD:

Jody McDermott, Chair

Richard H. Thackston, III, Selectman

TJ Chasse, Selectman

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Significant changes to previously submitted open permits <i>(Significant for this purpose would be the addition or deletion of more than 200 square feet and addition or deletion of a kitchen or bathroom. Additionally, applicant is still responsible for difference in original calculated permit fee.)</i>	\$50.00
Approved additional Dwelling Unit to be added to an existing property either by modification or addition	\$0.20 per square foot
Addition of an electrical meter <i>(Does not include replacement or upgrade of existing meters or conversion from single phase to three phase service.)</i>	\$50.00
Extension of any existing open permit for one-year. <i>(All permits expire one year from date of issue. No permit may be extended more than twice for a total of three years on one application. If a permit remains open and the project remains incomplete at the expiration of permits all work must cease on the project until such time as a new permit is issued. If a permit has been extended twice and the project remains incomplete, a new application must be submitted to confirm that the project remains within the current regulations.)</i>	\$50.00
Final Inspection Fee <i>(Any permit that requires inspection that has not received a final inspection and sign off will be considered open and active until expiration. Individuals authorized to sign off on permits: Fire Chief, Building Inspector that is authorized or designated by the Select Board, or any two members of the Select Board.)</i>	\$50.00

Electrical/Plumbing/Mechanical is included in all other permits.



Town of Troy

16 Central Square - PO Box 249 - Troy, New Hampshire 03465

Congratulations on beginning your new project!

You have completed the first step; you have successfully obtained a building permit.

There are some important things we want to make sure you know about the Permit and the process in the Town of Troy.

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 - a. Option One: You have completed your work as permitted within the one-year time frame and you call the town for a final inspection which the Town issues within a week to ten days.
 - b. Option Two: You do not complete your work within the one-year time frame, and you obtain an extension to your permit for an additional year.
 - c. Option Three: You complete your work; you do not call for a final inspection the permit remains open and expired. You would be subject to any future rules as applicable if at a future time you attempt to re-permit your project.
2. Your permit entitles you to do work but does not cover the cost of any inspections. The Town of Troy expects you to complete work in a competent and skillful manner or hire professional who are licensed in relevant trades to do such work. If you are not competent or your contractors are not licensed or competent it is not the responsibility of the Town of Troy.
 - a. If you have a loan for your project that requires interim inspections, you will need to arrange and pay for these inspections. The Town of Troy does not pay for interim inspections.
 - b. If you are not sure of how to complete your work and need to consult with a building inspector or engineering firm, you must do so at your cost. The Town of Troy does not provide or pay for any such services.
 - c. The Town of Troy does not do septic system inspections. Septic installations are between you, your designer, your installer, and the State of NH. Troy does not allow new installations of Privies.
3. The Town of Troy specifically does not require or pay for the following inspections: Footing Inspections, Drainage Inspections, Dry Bed Septic Field Inspections, Backfill Inspections, Grading Inspections, Electrical Inspections, Plumbing Inspections, Insulation Inspections, Foundation Inspections, Close-In Inspections, Sewer Line Inspections. Heating System installations will be inspected by the Fire Chief or designee at the time of Final Inspection/Issuance of Certificate of Occupancy.
4. Final Inspections/Issuance of Certificate of Occupancy must be scheduled a week to ten days in advance.

COMMONWEALTH OF MASSACHUSETTS
DIVISION OF OCCUPATIONAL LICENSURE
BOARD OF
ELECTRICIANS
ISSUES THE FOLLOWING LICENSE
REG JOURNEYMAN ELECTRICIAN

RYAN W KEGEL
53 S MEADOW RD
CARVER, MA 02330-1414

11583 B 07/31/2028 762243
LICENSE NUMBER EXPIRATION DATE SERIAL NUMBER

LICENSEE SIGNATURE

COMMONWEALTH OF MASSACHUSETTS
DIVISION OF OCCUPATIONAL LICENSURE
BOARD OF
ELECTRICIANS
ISSUES THE FOLLOWING LICENSE
REGISTERED MASTER ELECTRICIAN

RYAN KEGEL
53 S MEADOW RD
CARVER, MA 02330-1414

22292 A 07/31/2028 761802
LICENSE NUMBER EXPIRATION DATE SERIAL NUMBER

LICENSEE SIGNATURE


STATE OF MAINE
DEPARTMENT OF PROFESSIONAL AND FINANCIAL REGULATION
OFFICE OF PROFESSIONAL AND OCCUPATIONAL REGULATION
ELECTRICIANS' EXAMINING BOARD

License Number MS60021469
RYAN WILLIAM KEGEL
MASTER ELECTRICIAN

ISSUED 01/10/2025 EXPIRES 02/28/2027

COMMONWEALTH OF MASSACHUSETTS
DIVISION OF OCCUPATIONAL LICENSURE
BOARD OF
ELECTRICIANS
ISSUES THE FOLLOWING LICENSE
REGISTERED ELECTRICAL BUSINESS

IMBERLINE COMMUNICATIONS INC
90 PINE ST
ANTON, MA 02021-3366

566 A1 07/31/2028 768915
LICENSE NUMBER EXPIRATION DATE SERIAL NUMBER

LICENSEE SIGNATURE


State of Vermont
LICENSE
Division of
Fire Safety

Ryan W Kegel
Master Electrician
EM-07000

For the period
06/30/2025 to 06/30/2028
NOT VALID UNTIL
OFFICIALLY STAMPED

Michael Donahue

Provided under 26 V.S.A. Chapter 15.
45 State Drive, Waterbury, VT 05671-8300 802-479-7564

Rhode Island Department of Labor and Training
Division of Workforce Regulation and Safety

JOURNEY ELECTRICIAN B-015022

RYAN W KEGEL
53 SOUTH MEADOW ROAD
CARVER MA 02330

Josh R. Deegan
Assistant Director

06/30/2027
Expiration Date

Please visit our web site at <http://www.mass.gov/dpl/boards/EL>

TIMBERLINE COMMUNICATIONS INC
300 PINE ST
CANTON, MA 02021

(EL)

Fold, Then Detach Along All Perforations

COMMONWEALTH OF MASSACHUSETTS		
DIVISION OF PROFESSIONAL LICENSURE		
BOARD OF		
ELECTRICIANS		
ISSUES THE FOLLOWING LICENSE		
REGISTERED ELECTRICAL BUSINESS		
TIMBERLINE COMMUNICATIONS INC		
300 PINE ST		
CANTON, MA 02021		
566 A1	07/31/2022	937065
LICENSE NUMBER	EXPIRATION DATE	SERIAL NUMBER

LICENSEE SIGNATURE

Fold, Then Detach Along All Perforations

CONTROL # J01543472

IMPORTANT

If your license is lost, damaged or destroyed; is inaccurate; or needs to be corrected, visit our web site at mass.gov/dpl for instructions to ensure the proper mailing of your Renewal Application and any other correspondence.

This license is subject to Massachusetts General Laws and regulations. Your license is a privilege, and cannot be lent or assigned to any person or entity under penalty of law. Keep this license on your person or posted as required by law and/or regulations.



The Commonwealth of Massachusetts
Department of Industrial Accidents
Office of Investigations
Lafayette City Center
2 Avenue de Lafayette, Boston, MA 02111-1750
www.mass.gov/dia

Workers' Compensation Insurance Affidavit: Builders/Contractors/Electricians/Plumbers
Applicant Information **Please Print Legibly**

Name (Business/Organization/Individual): Timberline Communications LLC.

Address: 300 Pine Street

City/State/Zip: Canton, MA 02021

Phone #: 339-502-5000

Are you an employer? Check the appropriate box:

- | | |
|---|---|
| <p>1. ☒ I am an employer with <u>88</u> employees (full and/or part-time).*</p> <p>2. ☐ I am a sole proprietor or partnership and have no employees working for me in any capacity. [No workers' comp. insurance required.]</p> <p>3. ☐ I am a homeowner doing all work myself. [No workers' comp. insurance required.] †</p> | <p>4. ☐ I am a general contractor and I have hired the sub-contractors listed on the attached sheet. These sub-contractors have employees and have workers' comp. insurance. ‡</p> <p>5. ☐ We are a corporation and its officers have exercised their right of exemption per MGL c. 152, §1(4), and we have no employees. [No workers' comp. insurance required.]</p> |
|---|---|

Type of project (required):

6. ☐ New construction
7. ☐ Remodeling
8. ☐ Demolition
9. ☐ Building addition
10. ☐ Electrical repairs or additions
11. ☐ Plumbing repairs or additions
12. ☐ Roof repairs
13. ☒ Other Telecommunications

*Any applicant that checks box #1 must also fill out the section below showing their workers' compensation policy information.

† Homeowners who submit this affidavit indicating they are doing all work and then hire outside contractors must submit a new affidavit indicating such.

‡ Contractors that check this box must attach an additional sheet showing the name of the sub-contractors and state whether or not those entities have employees. If the sub-contractors have employees, they must provide their workers' comp. policy number.

I am an employer that is providing workers' compensation insurance for my employees. Below is the policy and job site information.

Insurance Company Name: Zurich

Policy # or Self-ins. Lic. #: WC-4257114-00

Expiration Date: 6/20/2026

Job Site Address: 67 West Hill Rd, Route 12, Troy, NH 03465

City/State/Zip: Chatham, MA 02659

Attach a copy of the workers' compensation policy declaration page (showing the policy number and expiration date).
Failure to secure coverage as required under Section 25A of MGL c. 152 can lead to the imposition of criminal penalties of a fine up to \$1,500.00 and/or one-year imprisonment, as well as civil penalties in the form of a STOP WORK ORDER and a fine of up to \$250.00 a day against the violator. Be advised that a copy of this statement may be forwarded to the Office of Investigations of the DIA for insurance coverage verification.

I do hereby certify under the pains and penalties of perjury that the information provided above is true and correct.

Signature: [Signature]

Date: 6/10/26

Phone #: 508 523 6657

Official use only. Do not write in this area, to be completed by city or town official.

City or Town: _____ Permit/License # _____

Issuing Authority (check one):

1 ☐ Board of Health 2 ☐ Building Department 3 ☐ City/Town Clerk 4 ☐ Electrical Inspector 5 ☐ Plumbing Inspector 6 ☐ Other _____

Contact Person: _____

Phone #: _____

Information and Instructions

Massachusetts General Laws chapter 152 requires all employers to provide workers' compensation for their employees. Pursuant to this statute, an **employee** is defined as "...every person in the service of another under any contract of hire, express or implied, oral or written."

An **employer** is defined as "an individual, partnership, association, corporation or other legal entity, or any two or more of the foregoing engaged in a joint enterprise, and including the legal representatives of a deceased employer, or the receiver or trustee of an individual, partnership, association or other legal entity, employing employees. However the owner of a dwelling house having not more than three apartments and who resides therein, or the occupant of the dwelling house of another who employs persons to do maintenance, construction or repair work on such dwelling house or on the grounds or building appurtenant thereto shall not because of such employment be deemed to be an employer."

MGL chapter 152, §25C(6) also states that **"every state or local licensing agency shall withhold the issuance or renewal of a license or permit to operate a business or to construct buildings in the commonwealth for any applicant who has not produced acceptable evidence of compliance with the insurance coverage required."** Additionally, MGL chapter 152, §25C(7) states "Neither the commonwealth nor any of its political subdivisions shall enter into any contract for the performance of public work until acceptable evidence of compliance with the insurance requirements of this chapter have been presented to the contracting authority."

Applicants

Please fill out the workers' compensation affidavit completely, by checking the boxes that apply to your situation and, if necessary, supply sub-contractor(s) name(s), address(es) and phone number(s) along with their certificate(s) of insurance. Limited Liability Companies (LLC) or Limited Liability Partnerships (LLP) with no employees other than the members or partners, are not required to carry workers' compensation insurance. If an LLC or LLP does have employees, a policy is required. Be advised that this affidavit may be submitted to the Department of Industrial Accidents for confirmation of insurance coverage. **Also be sure to sign and date the affidavit.** The affidavit should be returned to the city or town that the application for the permit or license is being requested, **not** the Department of Industrial Accidents. Should you have any questions regarding the law or if you are required to obtain a workers' compensation policy, please call the Department at the number listed below. Self-insured companies should enter their self-insurance license number on the appropriate line.

City or Town Officials

Please be sure that the affidavit is complete and printed legibly. The Department has provided a space at the bottom of the affidavit for you to fill out in the event the Office of Investigations has to contact you regarding the applicant. Please be sure to fill in the permit/license number which will be used as a reference number. In addition, an applicant that must submit multiple permit/license applications in any given year, need only submit one affidavit indicating current policy information (if necessary) and under "Job Site Address" the applicant should write "all locations in _____ (city or town)." A copy of the affidavit that has been officially stamped or marked by the city or town may be provided to the applicant as proof that a valid affidavit is on file for future permits or licenses. A new affidavit must be filled out each year. Where a home owner or citizen is obtaining a license or permit not related to any business or commercial venture (i.e. a dog license or permit to burn leaves etc.) said person is NOT required to complete this affidavit.

The Office of Investigations would like to thank you in advance for your cooperation and should you have any questions, please do not hesitate to give us a call.

The Department's address, telephone and fax number:

The Commonwealth of Massachusetts
Department of Industrial Accidents
Office of Investigations
Lafayette City Center, 2 Avenue de Lafayette
Boston, MA 02111-1750

Tel. (617) 727-4900 or 1-877-MASSAFE

Fax (617) 727-7749

www.mass.gov/dia

SITE NAME: 4KN0341A - US CELL - GUYED TOWER - TROY

67 WEST HILL ROAD / ROUTE 12

TROY, NH 03465

CHESHIRE COUNTY

SITE NUMBER: 4KN0341A

ANCHOR_PHASE 3

SITE CLASS: GUYED TOWER

RF DESIGN GUIDELINE: 67E5D998E 6160

GENERAL NOTES

THIS DOCUMENT IS THE CREATION, DESIGN, PROPERTY AND COPYRIGHTED WORK OF T-MOBILE. ANY DUPLICATION OR USE WITHOUT EXPRESS WRITTEN CONSENT IS STRICTLY PROHIBITED. DUPLICATION AND USE BY GOVERNMENT AGENCIES FOR THE PURPOSES OF CONDUCTING THEIR LAWFULLY AUTHORIZED REGULATORY AND ADMINISTRATIVE FUNCTIONS IS SPECIFICALLY ALLOWED.

THE FACILITY IS AN UNMANNED PRIVATE AND SECURED EQUIPMENT INSTALLATION. IT IS ONLY ACCESSED BY TRAINED TECHNICIANS FOR PERIODIC ROUTINE MAINTENANCE AND THEREFORE DOES NOT REQUIRE ANY WATER OR SANITARY SEWER SERVICE. THE FACILITY IS NOT GOVERNED BY REGULATIONS REQUIRING PUBLIC ACCESS PER ADA REQUIREMENTS.

CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE T-MOBILE NORTHEAST, LLC REPRESENTATIVE IN WRITING OF DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

APPROVALS

PROJECT MANAGER	DATE
CONSTRUCTION	DATE
RF ENGINEERING	DATE
ZONING / SITE ACQ.	DATE
OPERATIONS	DATE
TOWER OWNER	DATE

UNDERGROUND SERVICE ALERT



WWW.DIGSAFE.COM
72 HOURS PRIOR

T-MOBILE TECHNICIAN SITE SAFETY NOTES	
LOCATION	SPECIAL RESTRICTIONS
SECTOR A: ANTENNA/RADIO	ACCESS NOT PERMITTED
SECTOR B: ANTENNA/RADIO	ACCESS NOT PERMITTED
SECTOR C: ANTENNA/RADIO	ACCESS NOT PERMITTED
GPS/LMU:	UNRESTRICTED
RADIO CABINETS:	UNRESTRICTED
PPC DISCONNECT:	UNRESTRICTED
MAIN CIRCUIT D/C:	UNRESTRICTED
NIU/T DEMARC:	UNRESTRICTED
OTHER/SPECIAL:	NONE

PROJECT SUMMARY

SCOPE OF WORK:	UNMANNED TELECOMMUNICATIONS FACILITY T-MOBILE EQUIPMENT MODERNIZATION
ZONING JURISDICTION:	BASED ON INFORMATION PROVIDED BY T-MOBILE, THIS TELECOMMUNICATIONS EQUIPMENT DEPLOYMENT IS AN ELIGIBLE FACILITY UNDER THE TAX RELIEF ACT OF 2012, 47 USC 1455(A), AND IS SUBJECT TO AN EXPEDITED ELIGIBLE FACILITIES REQUEST/REVIEW AND ZONING PRE-EMPTION FOR LOCAL DISCRETIONARY PERMITS (VARIANCE, SPECIAL PERMIT, SITE PLAN REVIEW).
SITE ADDRESS:	67 WEST HILL ROAD / ROUTE 12 TROY, NH 03465
LATITUDE:	42° 49' 50.1594" N / 42.8306° N
LONGITUDE:	72° 11' 53.1594" W / -72.1981° W
JURISDICTION:	CHESHIRE COUNTY
CURRENT USE:	TELECOMMUNICATIONS FACILITY
PROPOSED USE:	TELECOMMUNICATIONS FACILITY

PROJECT SCOPE OF WORK

- REMOVE (1) PSW 4813 VR2A (KIT)
- INSTALL (1) NEW RP 6672
- INSTALL (3) NEW AIR 6419 841 ANTENNAS
- INSTALL (1) NEW 6424 4MM HYBRID CABLE

DRAWING INDEX

SHEET NO.	DESCRIPTION	REV.
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A-2	GROUND EQUIPMENT LAYOUT	1
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A-4	TOWER ELEVATIONS	1
A-5	ANTENNA SCHEDULES	1
A-6	MOUNTING DETAILS	1
A-7	DETAILS	1
SN-1	SPECIAL INSPECTIONS NOTES	1
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T-MOBILE NORTHEAST LLC

15 COVANCE WAY, SUITE 8
TROY, NH 03465
PHONE: 603.255.1100
FAX: 603.255.1101



TEP OPCO, LLC
45 BEECHWOOD DR.
NORTH ANDOVER, MA 01845
OFFICE: (978) 557-0553



CHECKED BY: VD

APPROVED BY: SB

SUBMITTALS

REV	DATE	DESCRIPTION	BY
1	05/27/28	ISSUED FOR CONSTRUCTION	TR
2	02/14/28	ISSUED FOR REVIEW	SBP

SITE NUMBER:

4KN0341A

SITE NAME:

4KN0341A - US CELL -
GUYED TOWER - TROY

SITE ADDRESS:
67 WEST HILL ROAD / ROUTE 12
TROY, NH 03465
CHESHIRE COUNTY

SHEET TITLE

TITLE SHEET
(ANCHOR)

SHEET NUMBER

T-1

TEP is a family of companies licensed to provide different services in different jurisdictions. Depending on the jurisdiction, professional engineering and land surveying services are provided by TEP OPCO, LLC or TEP ENGINEERING, LLC. All TEP companies are licensed in the state of New Hampshire. TEP is a family of companies licensed to provide different services in different jurisdictions. Depending on the jurisdiction, professional engineering and land surveying services are provided by TEP OPCO, LLC or TEP ENGINEERING, LLC. All TEP companies are licensed in the state of New Hampshire. TEP is a family of companies licensed to provide different services in different jurisdictions. Depending on the jurisdiction, professional engineering and land surveying services are provided by TEP OPCO, LLC or TEP ENGINEERING, LLC. All TEP companies are licensed in the state of New Hampshire.

GROUNDING NOTES

1. THE SUBCONTRACTOR SHALL REVIEW AND INSPECT THE EXISTING FACILITY, LIGHTNING PROTECTION SYSTEM (AS DESIGNED AND INSTALLED) FOR STRICT COMPLIANCE WITH THE NEC (AS ADOPTED BY THE AHJ), THE SITE-SPECIFIC (UL, LPI, OR NFPA) LIGHTING PROTECTION CODE, AND GENERAL COMPLIANCE WITH TELCORDIA AND TIA GROUNDING STANDARDS. THE SUBCONTRACTOR SHALL REPORT ANY VIOLATIONS OR ADVERSE FINDINGS TO THE CONTRACTOR FOR RESOLUTION.
2. ALL GROUND ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION, AND AC POWER GROUNDING) SHALL BE BONDED TOGETHER, AT OR BELOW GRADE, BY TWO OR MORE COPPER BONDING CONDUCTORS IN ACCORDANCE WITH THE NEC.
3. THE SUBCONTRACTOR SHALL PERFORM IEEE FALL-OF-POTENTIAL RESISTANCE TO EARTH TESTING (PER IEEE 1100 AND 81 STANDARDS) FOR NEW GROUND ELECTRODE SYSTEMS. THE SUBCONTRACTOR SHALL FURNISH AND INSTALL SUPPLEMENTAL GROUND ELECTRODES AS NEEDED TO ACHIEVE A TEST RESULT OF 5 OHMS OR LESS.
4. METAL RACEWAY SHALL NOT BE USED AS THE NEC REQUIRED EQUIPMENT GROUND CONDUCTOR. STRANDED COPPER CONDUCTORS WITH GREEN INSULATION, SIZED IN ACCORDANCE WITH THE NEC, SHALL BE FURNISHED AND INSTALLED WITH THE POWER CIRCUITS TO BTS EQUIPMENT.
5. EACH BTS CABINET FRAME SHALL BE DIRECTLY CONNECTED TO THE MASTER GROUND BAR WITH GREEN INSULATED SUPPLEMENTAL EQUIPMENT GROUND WIRES, #6 AWG STRANDED COPPER OR LARGER FOR INDOOR BTS AND #2 AWG STRANDED COPPER FOR OUTDOOR BTS.
6. EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.
7. APPROVED ANTIOXIDANT COATINGS (I.E., CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.
8. ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED OR BOLTED TO GROUND BAR.
9. ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CONNECTIONS.
10. MISCELLANEOUS ELECTRICAL AND NON-ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE WITH THE NEC.
11. METAL CONDUIT SHALL BE MADE ELECTRICALLY CONTINUOUS WITH LISTED BONDING FITTINGS OR BY BONDING ACROSS THE DISCONTINUITY WITH #6 AWG COPPER WIRE UL APPROVED GROUNDING TYPE CONDUIT CLAMPS.
12. ALL NEW STRUCTURES WITH A FOUNDATION AND/OR FOOTING HAVING 20 FT. OR MORE OF 1/2 IN. OR GREATER ELECTRICALLY CONDUCTIVE REINFORCING STEEL MUST HAVE IT BONDED TO THE GROUND RING USING AN EXOTHERMIC WELD CONNECTION USING #2 AWG SOLID BARE TINNED COPPER GROUND WIRE, PER NEC 250.50.

GENERAL NOTES

1. FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY:
CONTRACTOR – T-MOBILE
SUBCONTRACTOR – GENERAL CONTRACTOR (CONSTRUCTION)
OWNER – T-MOBILE
2. PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING SUBCONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF CONTRACTOR.
3. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. SUBCONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
4. DRAWINGS PROVIDED HERE ARE NOT TO BE SCALED AND ARE INTENDED TO SHOW OUTLINE ONLY.
5. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
6. "KITTING LIST" SUPPLIED WITH THE BID PACKAGE IDENTIFIES ITEMS THAT WILL BE SUPPLIED BY CONTRACTOR. ITEMS NOT INCLUDED IN THE BILL OF MATERIALS AND KITTING LIST SHALL BE SUPPLIED BY THE SUBCONTRACTOR.
7. THE SUBCONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
8. IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE SUBCONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION SPACE FOR APPROVAL BY THE CONTRACTOR.
9. SUBCONTRACTOR SHALL DETERMINE ACTUAL ROUTING OF CONDUIT, POWER AND T1 CABLES, GROUNDING CABLES AS SHOWN ON THE POWER, GROUNDING AND TELCO PLAN DRAWING. SUBCONTRACTOR SHALL UTILIZE EXISTING TRAYS AND/OR SHALL ADD NEW TRAYS AS NECESSARY. SUBCONTRACTOR SHALL CONFIRM THE ACTUAL ROUTING WITH THE CONTRACTOR.
10. THE SUBCONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT SUBCONTRACTOR'S EXPENSE TO THE SATISFACTION OF OWNER.
11. SUBCONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION.
12. SUBCONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION.
13. ALL CONCRETE REPAIR WORK SHALL BE DONE IN ACCORDANCE WITH AMERICAN CONCRETE INSTITUTE (ACI) 301.

14. ANY NEW CONCRETE NEEDED FOR THE CONSTRUCTION SHALL BE AIR-ENTRAINED AND SHALL HAVE 4000 PSI STRENGTH AT 28 DAYS. ALL CONCRETE WORK SHALL BE DONE IN ACCORDANCE WITH ACI 318 CODE REQUIREMENTS.

15. ALL STRUCTURAL STEEL WORK SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH AISC SPECIFICATIONS. ALL STRUCTURAL STEEL SHALL BE ASTM A36 (Fy = 36 ksi) UNLESS OTHERWISE NOTED. PIPES SHALL BE ASTM A53 TYPE E (Fy = 35 ksi). ALL STEEL EXPOSED TO WEATHER SHALL BE HOT DIPPED GALVANIZED. TOUCHUP ALL SCRATCHES AND OTHER MARKS IN THE FIELD AFTER STEEL IS ERECTED USING A COMPATIBLE ZINC RICH PAINT.

16. CONSTRUCTION SHALL COMPLY WITH T-MOBILE SPECIFICATIONS AND "GENERAL CONSTRUCTION SERVICES FOR CONSTRUCTION OF T-MOBILE SITES."

17. SUBCONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS MUST BE VERIFIED. SUBCONTRACTOR SHALL NOTIFY THE CONTRACTOR OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.

18. THE EXISTING CELL SITE IS IN FULL COMMERCIAL OPERATION. ANY CONSTRUCTION WORK BY SUBCONTRACTOR SHALL NOT DISRUPT THE EXISTING NORMAL OPERATION. ANY WORK ON EXISTING EQUIPMENT MUST BE COORDINATED WITH CONTRACTOR. ALSO, WORK SHOULD BE SCHEDULED FOR AN APPROPRIATE MAINTENANCE WINDOW USUALLY IN LOW TRAFFIC PERIODS AFTER MIDNIGHT.

19. SINCE THE CELL SITE IS ACTIVE, ALL SAFETY PRECAUTIONS MUST BE TAKEN WHEN WORKING AROUND HIGH LEVELS OF ELECTROMAGNETIC RADIATION. EQUIPMENT SHOULD BE SHUTDOWN PRIOR TO PERFORMING ANY WORK THAT COULD EXPOSE THE WORKERS TO DANGER. PERSONAL RF EXPOSURE MONITORS ARE ADVISED TO BE WORN TO ALERT OF ANY DANGEROUS EXPOSURE LEVELS.

20. APPLICABLE BUILDING CODES:
SUBCONTRACTOR'S WORK SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ) FOR THE LOCATION. THE EDITION OF THE AHJ ADOPTED CODES AND STANDARDS IN EFFECT ON THE DATE OF CONTRACT AWARD SHALL GOVERN THE DESIGN.
BUILDING CODE: IBC 2021 WITH 2021 NEW HAMPSHIRE AMENDMENTS
ELECTRICAL CODE: NEC 2020, NFPA 70

SUBCONTRACTOR'S WORK SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING STANDARDS:

AMERICAN CONCRETE INSTITUTE (ACI) 318; BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE;

AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC)

MANUAL OF STEEL CONSTRUCTION, ASD, FOURTEENTH EDITION;

TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA) 222-H, STRUCTURAL STANDARDS FOR STEEL

EQUIPMENT AND ANTENNA SUPPORTING STRUCTURES; REFER TO ELECTRICAL DRAWINGS FOR SPECIFIC ELECTRICAL STANDARDS.

FOR ANY CONFLICTS BETWEEN SECTIONS OF LISTED CODES AND STANDARDS REGARDING MATERIAL, METHODS OF CONSTRUCTION, OR OTHER REQUIREMENTS, THE MOST RESTRICTIVE REQUIREMENT SHALL GOVERN. WHERE THERE IS CONFLICT BETWEEN A GENERAL REQUIREMENT AND A SPECIFIC REQUIREMENT, THE SPECIFIC REQUIREMENT SHALL GOVERN.

ABBREVIATIONS

AGL	ABOVE GRADE LEVEL	EQ	EQUAL	REQ	REQUIRED
AWG	AMERICAN WIRE GAUGE	GC	GENERAL CONTRACTOR	RF	RADIO FREQUENCY
BBU	BATTERY BACKUP UNIT	GRC	GALVANIZED RIGID CONDUIT	TBD	TO BE DETERMINED
BTWC	BARE TINNED SOLID COPPER WIRE	MGB	MASTER GROUND BAR	TBR	TO BE REMOVED
BGR	BURIED GROUND RING	MIN	MINIMUM	TBRR	TO BE REMOVED AND REPLACED
BTS	BASE TRANSCIEVER STATION	P	PROPOSED	TYP	TYPICAL
E	EXISTING	NTS	NOT TO SCALE	UG	UNDER GROUND
ECB	EQUIPMENT GROUND BAR	RAD	RADIATION CENTER LINE (ANTENNA)	VIF	VERIFY IN FIELD
EGR	EQUIPMENT GROUND RING	REF	REFERENCE		

T-MOBILE NORTHEAST LLC

15 COUNTEYS WAY, SUITE B
NORTH ANDOVER, MA 01845
OFFICE: (978) 386-2750
FAX: (978) 386-2893



TEP OPCO, LLC,
45 BEECHWOOD DR.
NORTH ANDOVER MA 01845
OFFICE (978) 557-5553



CHECKED BY: VD

APPROVED BY: SB

SUBMITTALS

REV.	DATE	DESCRIPTION	BY
1	06/27/26	ISSUED FOR CONSTRUCTION	TB
2	06/16/26	ISSUED FOR REVIEW	SBP

SITE NUMBER:
4KN0341A
SITE NAME:
4KN0341A – US CELL –
GUYED TOWER – TROY
SITE ADDRESS:
67 WEST HILL ROAD / ROUTE 12
TROY, NH 03465
CHESHIRE COUNTY

SHEET TITLE
GENERAL NOTES
(ANCHOR)

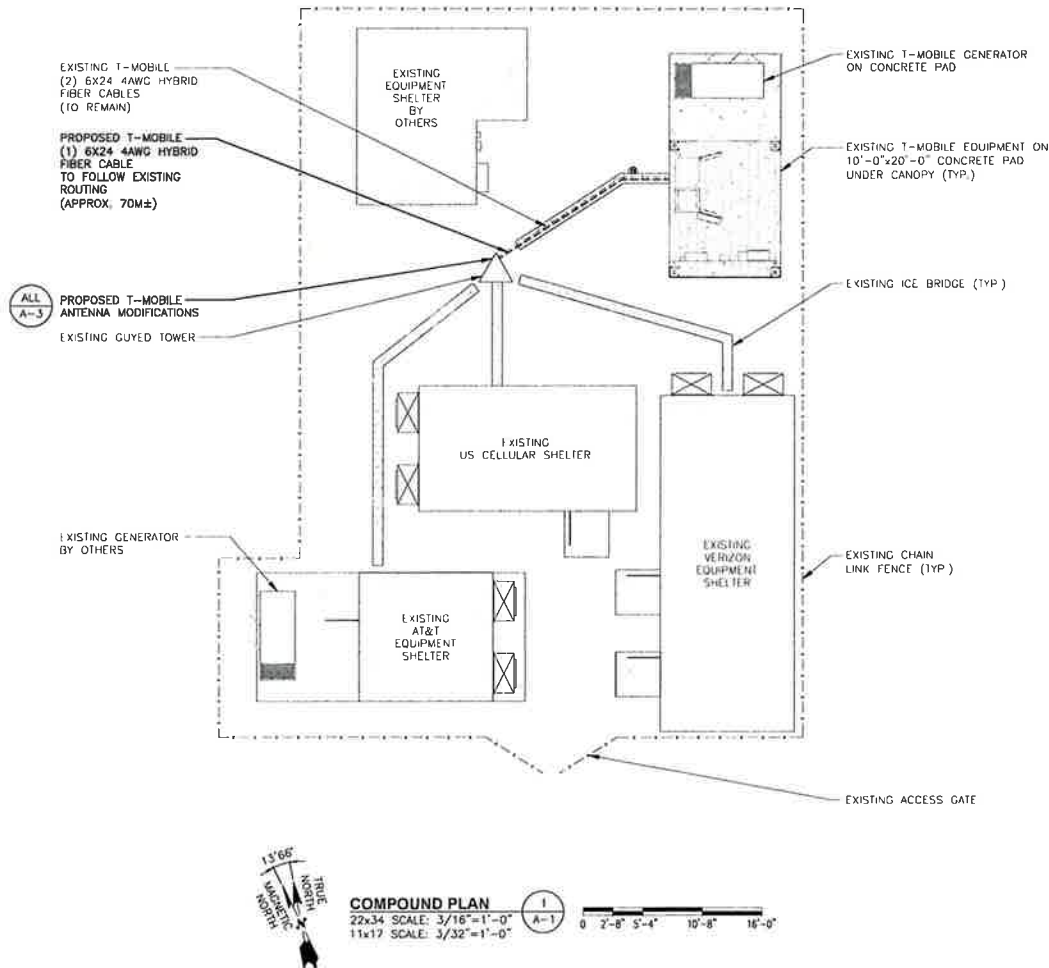
SHEET NUMBER:

GN-1

STRUCTURAL NOTES:
PRIOR TO COMMENCING CONSTRUCTION, GC SHALL REFER TO MOUNT ANALYSIS PROVIDED BY TEP OPCO LLC, DATED: MARCH 16, 2026 TO DETERMINE IF THERE ANY SUPPLEMENTAL OR SPECIAL INSTALLATION REQUIREMENTS, OR RELOCATION ARRANGEMENTS.

NOTE:
REFER TO THE FINAL RF DATA SHEET FOR FINAL ANTENNA SETTINGS.

NOTE:
REFER TO STRUCTURAL ANALYSIS BY: POWER OF DESIGN DATED: MAY 21, 2026, FOR THE CAPACITY OF THE EXISTING STRUCTURES TO SUPPORT THE PROPOSED EQUIPMENT.

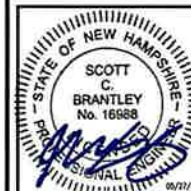


T-MOBILE NORTHEAST LLC

1800 WILLOW AVE SUITE 100
NORTH ANDOVER, MA 01845
OFFICE (978) 557-5553



TEP OPCO, LLC
45 BEECHWOOD DR.
NORTH ANDOVER, MA 01845
OFFICE (978) 557-5553



CHECKED BY: VD

APPROVED BY: SB

SUBMITTALS

REV	DATE	DESCRIPTION	BY
1	05/27/26	ISSUED FOR CONSTRUCTION	TR
2	05/26/26	ISSUED FOR REVIEW	SBP

SITE NUMBER:

4KN0341A

SITE NAME:

4KN0341A - US CELL -
GUYED TOWER - TROY

SITE ADDRESS:
HILL ROAD / ROUTE 12
TROY, NH 03465
CHESHIRE COUNTY

SHEET TITLE

COMPOUND PLAN

(ANCHOR)

SHEET NUMBER

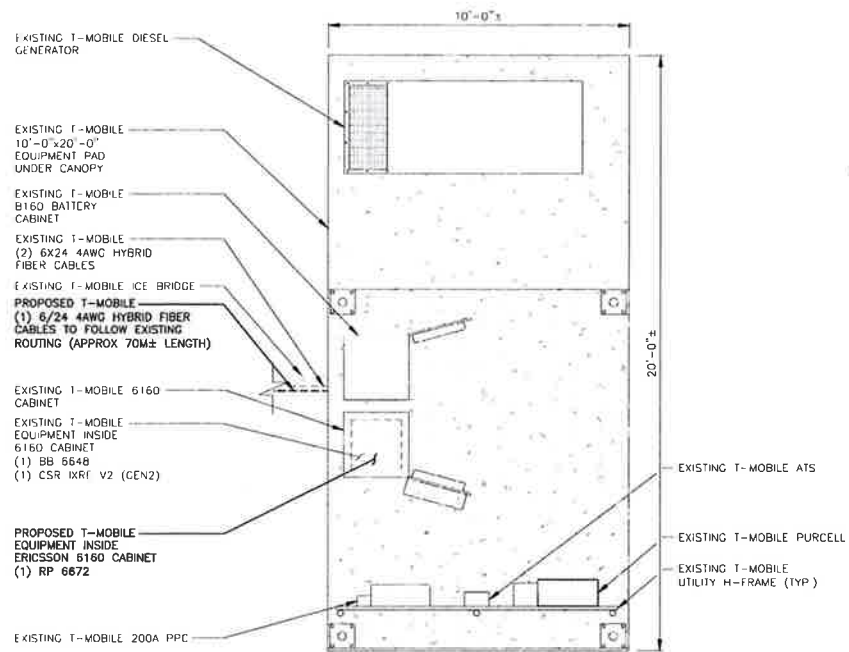
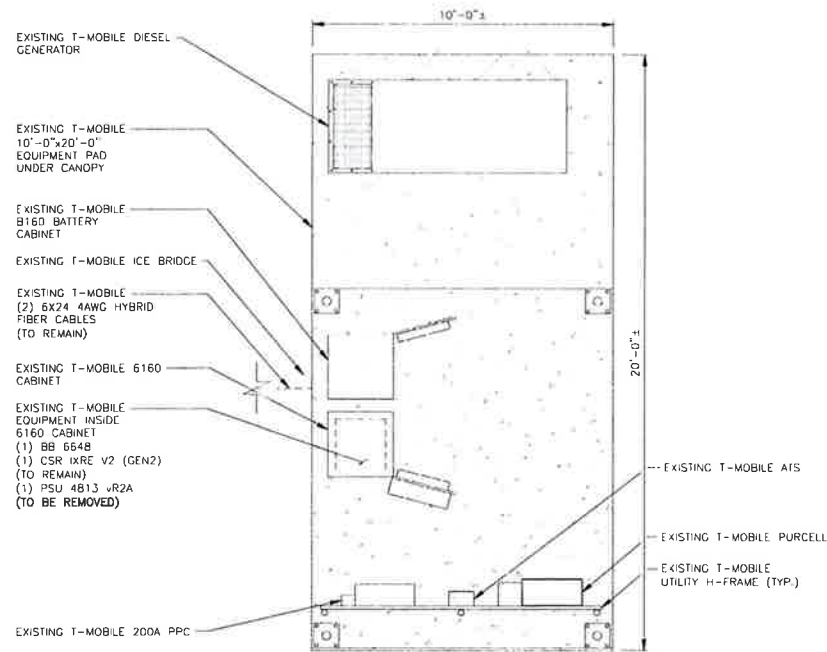
A-1

STRUCTURAL NOTES:
PRIOR TO COMMENCING CONSTRUCTION, GC SHALL REFER TO MOUNT ANALYSIS PROVIDED BY TEP OPCO LLC, DATED: MARCH 16, 2026 TO DETERMINE IF THERE ANY SUPPLEMENTAL OR SPECIAL INSTALLATION REQUIREMENTS, OR RELOCATION ARRANGEMENTS.

NOTE:
REFER TO THE FINAL RF DATA SHEET FOR FINAL ANTENNA SETTINGS

NOTE:

REFER TO STRUCTURAL ANALYSIS BY: POWER OF DESIGN DATED: MAY 21, 2026, FOR THE CAPACITY OF THE EXISTING STRUCTURES TO SUPPORT THE PROPOSED EQUIPMENT.



T-MOBILE NORTHEAST LLC

150 DOWPERWAY, SUITE B
TROY, NH 03465
OFFICE: (978) 557-5553
FAX: (978) 284-8954



TEP OPCO, LLC
45 BEECHWOOD DR.
NORTH ANDOVER, MA 01845
OFFICE: (978) 557-5553



CHECKED BY: VD

APPROVED BY: SB

SUBMITTALS

REV	DATE	DESCRIPTION	BY
1	05/17/26	ISSUED FOR CONSTRUCTION	TE
2	05/16/26	ISSUED FOR REVIEW	SMP

SITE NUMBER:

4KNO341A

SITE NAME:

4KNO341A - US CELL - GUYED TOWER - TROY

SITE ADDRESS:

67 WEST HILL ROAD / ROUTE 12
TROY, NH 03465
CHESHIRE COUNTY

SHEET TITLE

GROUND EQUIPMENT LAYOUT (ANCHOR)

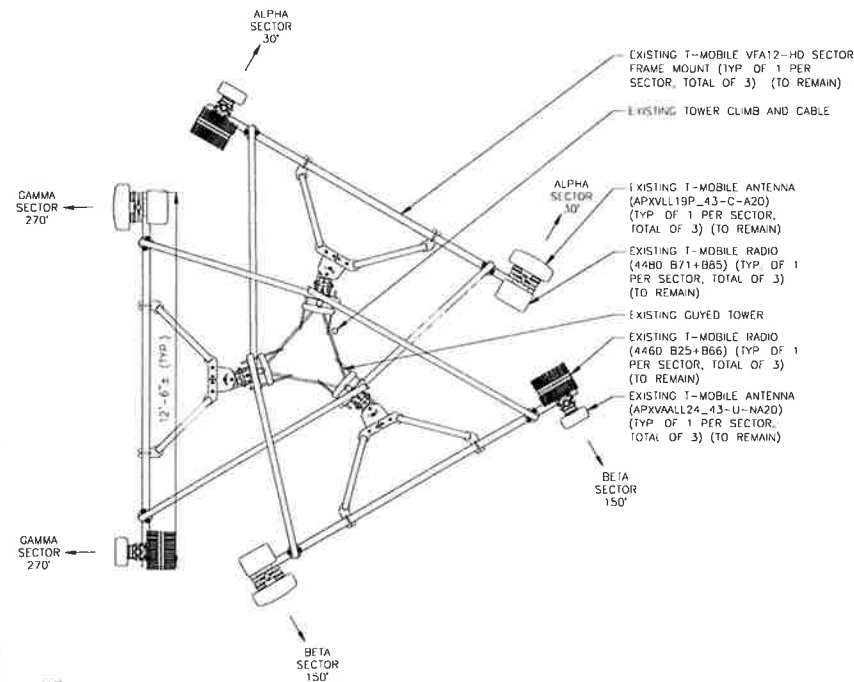
SHEET NUMBER

A-2

STRUCTURAL NOTES:
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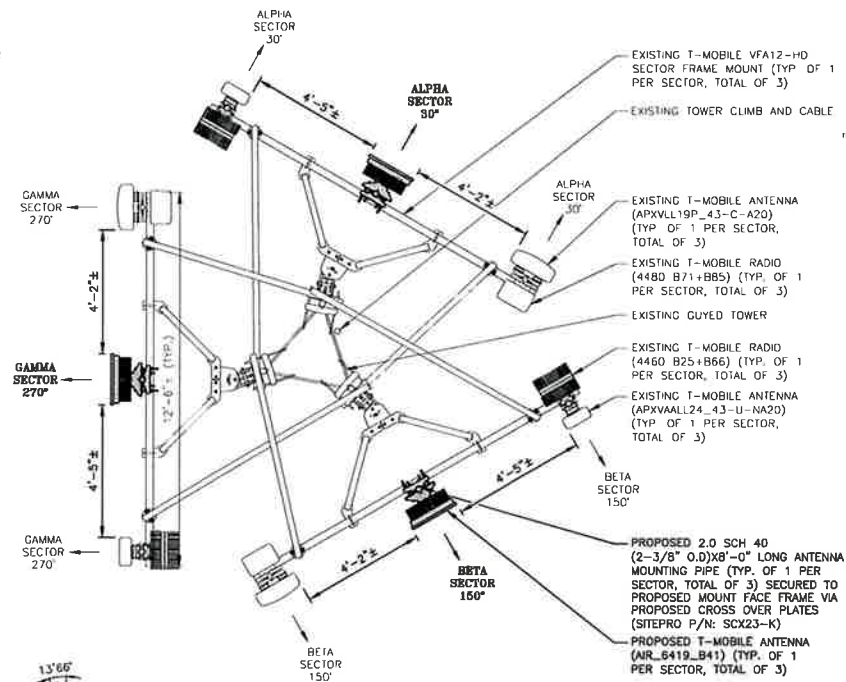
NOTE:
REFER TO THE FINAL RF DATA SHEET FOR FINAL ANTENNA SETTINGS

NOTE:
REFER TO STRUCTURAL ANALYSIS BY: POWER OF DESIGN DATED: MAY 21, 2026, FOR THE CAPACITY OF THE EXISTING STRUCTURES TO SUPPORT THE PROPOSED EQUIPMENT.



EXISTING T-MOBILE ANTENNA PLAN @ 185'

22x34 SCALE: 1/2"=1'-0"
11x17 SCALE: 1/4"=1'-0"



PROPOSED T-MOBILE ANTENNA PLAN @ 185'

22x34 SCALE: 1/2"=1'-0"
11x17 SCALE: 1/4"=1'-0"

T-MOBILE NORTHEAST LLC

15 COUNTRY CENTER, SUITE 8
TROY, NH 03465
PHONE: (603) 286-2700
FAX: (603) 286-2700



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45 BEECHWOOD DR.
NORTH ANDOVER, MA 01845
OFFICE (978) 557-5553



CHECKED BY: VD

APPROVED BY: SB

SUBMITTALS

REV.	DATE	DESCRIPTION	BY
1	05/27/25	ISSUED FOR CONSTRUCTION	SB
0	03/18/25	ISSUED FOR REVIEW	SJP

SITE NUMBER:

4KN0341A

SITE NAME:

4KN0341A - US CELL -
GUYED TOWER - TROY

SITE ADDRESS:

67 WEST HILL ROAD / ROUTE 12
TROY, NH 03465
CHESHIRE COUNTY

SHEET TITLE

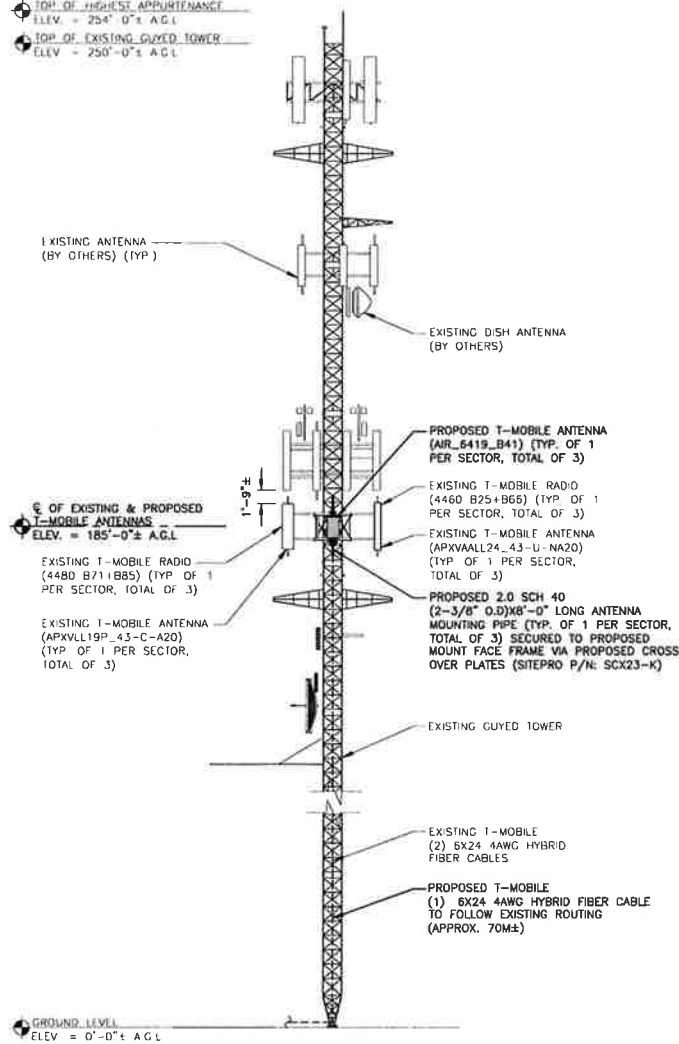
ANTENNA PLANS

(ANCHOR)

SHEET NUMBER

A-3

TOP OF HIGHEST APPURTENANCE
ELEV. = 254'-0"± A.G.L.
TOP OF EXISTING GUYED TOWER
ELEV. = 250'-0"± A.G.L.



TOWER ELEVATION
22x34 SCALE: 1/8"=1'-0"
11x17 SCALE: 1/16"=1'-0"

STRUCTURAL NOTES:
PRIOR TO COMMENCING CONSTRUCTION, GC SHALL REFER TO MOUNT ANALYSIS PROVIDED BY TEP OPCO LLC, DATED: MARCH 18, 2026 TO DETERMINE IF THERE ANY SUPPLEMENTAL OR SPECIAL INSTALLATION REQUIREMENTS, OR RELOCATION ARRANGEMENTS.

NOTE:

REFER TO STRUCTURAL ANALYSIS BY: POWER OF DESIGN DATED: MAY 21, 2026, FOR THE CAPACITY OF THE EXISTING STRUCTURES TO SUPPORT THE PROPOSED EQUIPMENT.

NOTE:

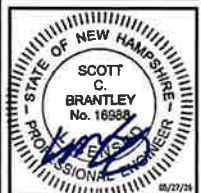
REFER TO THE FINAL RF DATA SHEET FOR FINAL ANTENNA SETTINGS.

T-MOBILE NORTHEAST LLC

150 WINDY WAY, SUITE B
TROY, NH 03465
(603) 284-2070
FAX: (603) 284-2070



TEP OPCO, LLC
45 BEECHWOOD DR.
NORTH ANDOVER, MA 01845
OFFICE (878) 557-5553



CHECKED BY: VD

APPROVED BY: SB

SUBMITTALS

REV	DATE	DESCRIPTION	BY
1	05/27/24	ISSUED FOR CONSTRUCTION	TR
2	05/14/24	ISSUED FOR REVIEW	SMP

SITE NUMBER:

4KN0341A

SITE NAME:

4KN0341A - US CELL - GUYED TOWER - TROY

SITE ADDRESS:

67 WEST HILL ROAD / ROUTE 12
TROY, NH 03465
CHESHIRE COUNTY

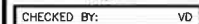
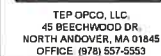
SHEET TITLE

TOWER ELEVATIONS (ANCHOR)

SHEET NUMBER

A-4

BOOKS MAY BE
RETURNED TO
LIBRARY ON 20-11-19
BY 10.00 AM



SUBMITTALS

SITE NUMBER:
4KNO341A
SITE NAME:
4KNO341A - US CELL -
GUYED TOWER - TROY
SITE ADDRESS:
67 WEST HILL ROAD / ROUTE 12
TROY, NH 03465
CHESHIRE COUNTY

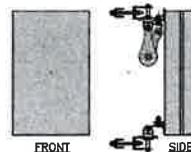
ANTENNA SCHEDULES (ANCHOR)

A-5

ANTENNA SCHEDULE 1
A-5
SCALE: N.T.S.

1
A-5

L25+N25 ANTENNA DIMENSIONS	
MODEL #	AIR B41B B41
MANUF.	ERICSSON
HEIGHT	34.49"
WIDTH	19.92"
DEPTH	7.99"
WEIGHT	68.34 LBS



AIR ANTENNA DETAIL
SCALE: N.T.S

1
A-7

T-MOBILE NORTHEAST LLC

3 CONWAY STREET, SUITE B
SCOTT, NH 03594
OFFICE (603) 360-2700
FAX (603) 360-2815



TEP OPCO, LLC
45 BEECHWOOD DR.
NORTH ANDOVER, MA 01845
OFFICE (978) 557-5553



CHECKED BY: VD

APPROVED BY: SB

SUBMITTALS

REV	DATE	DESCRIPTION	BY
1	05/27/25	ISSUED FOR CONSTRUCTION	TR
0	05/16/25	ISSUED FOR REVIEW	SBP

SITE NUMBER:

4KN0341A

SITE NAME:

4KN0341A - US CELL -
GUYED TOWER - TROY

SITE ADDRESS:
67 WEST HILL ROAD / ROUTE 12
TROY, NH 03465
CHESHIRE COUNTY

SHEET TITLE

DETAILS

(ANCHOR)

SHEET NUMBER

A-7

STRUCTURAL NOTES:

1. DESIGN REQUIREMENTS ARE PER STATE BUILDING CODE AND APPLICABLE SUPPLEMENTS, INTERNATIONAL BUILDING CODE, EA/TA-222-H STRUCTURAL STANDARDS FOR STEEL ANTENNA, TOWERS AND ANTENNA SUPPORTING STRUCTURES.
2. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO FABRICATION AND ERECTION OF ANY MATERIAL. ANY UNUSUAL CONDITIONS SHALL BE REPORTED TO THE ATTENTION OF THE CONSTRUCTION MANAGER AND ENGINEER OF RECORD.
3. DESIGN AND CONSTRUCTION OF STRUCTURAL STEEL SHALL CONFORM TO THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS".
4. STRUCTURAL STEEL SHALL CONFORM TO ASTM A992 ($F_y=50$ ksi). MISCELLANEOUS STEEL SHALL CONFORM TO ASTM A36 UNLESS OTHERWISE INDICATED.
5. STRUCTURAL MEMBERS WITH CIRCULAR CROSS-SECTIONS ARE TO BE FABRICATED AS SPECIFIED IN THE STRUCTURAL DRAWINGS HEREIN. UNLESS NOTED OTHERWISE, STEEL PIPE MEMBERS, AS SPECIFIED IN AISI TABLE 1-14, SHALL CONFORM TO ASTM A53, GRADE B, WITH MINIMUM TENSILE STRENGTH OF 60 KSI AND MINIMUM YIELD STRENGTH OF 35 KSI. UNLESS NOTED OTHERWISE, ROUND HOLLOW STRUCTURAL SECTIONS, AS SPECIFIED IN AISI TABLE 1-13, SHALL CONFORM TO ASTM A500, GRADE B, WITH MINIMUM TENSILE STRENGTH OF 58 KSI AND MINIMUM YIELD STRENGTH OF 42 KSI.
6. STRUCTURAL CONNECTION BOLTS SHALL BE HIGH STRENGTH BOLTS (BEARING TYPE) AND CONFORM TO ASTM A325 TYPE-X HIGH STRENGTH BOLTS FOR STRUCTURAL JOINTS, INCLUDING SUITABLE NUTS AND PLAIN HARDENED WASHERS. ALL BOLTS SHALL BE 3/4" DIA UNF.
7. ALL STEEL MATERIALS SHALL BE GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A123 "ZINC (HOT-DIP GALVANIZED) COATINGS ON IRON AND STEEL PRODUCTS", UNLESS OTHERWISE NOTED.
8. ALL BOLTS, ANCHORS AND MISCELLANEOUS HARDWARE SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153 "ZINC-COATING (HOT-DIP) ON IRON AND STEEL HARDWARE", UNLESS OTHERWISE NOTED.
9. FIELD WELDS, DRILL HOLES, SAW CUTS AND ALL DAMAGED GALVANIZED SURFACES SHALL BE REPAIRED WITH AN ORGANIC ZINC REPAIR PAINT COMPLYING WITH REQUIREMENTS OF ASTM A780. GALVANIZING REPAIR PAINT SHALL HAVE 65 PERCENT ZINC BY WEIGHT, ZIRP BY DUNCAN GALVANIZING, GALVA BRIGHT PREMIUM BY CROWN OR EQUAL THICKNESS OF APPLIED GALVANIZING REPAIR PAINT SHALL BE NOT LESS THAN 4 COATS (ALLOW TIME TO DRY BETWEEN COATS) WITH A RESULTING COATING THICKNESS REQUIRED BY ASTM A123 OR A153 AS APPLICABLE.
10. CONTRACTOR SHALL COMPLY WITH AWS CODE FOR PROCEDURES, APPEARANCE AND QUALITY OF WELDS, AND FOR METHODS USED IN CORRECTING WELDING. ALL WELDERS AND WELDING PROCESSES SHALL BE QUALIFIED IN ACCORDANCE WITH AWS "STANDARD QUALIFICATION PROCEDURES". ALL WELDING SHALL BE DONE USING E70XX ELECTRODES AND WELDING SHALL CONFORM TO AISI AND D.I.I. WHERE FILLET WELD SIZES ARE NOT SHOWN, PROVIDE THE MINIMUM SIZE PER TABLE J2.4 IN THE AISI "STEEL CONSTRUCTION MANUAL", 14TH EDITION.
11. INCORRECTLY FABRICATED, DAMAGED OR OTHERWISE MISFITTING OR NON-CONFORMING MATERIALS OR CONDITIONS SHALL BE REPORTED TO THE CONSTRUCTION MANAGER PRIOR TO REMEDIAL OR CORRECTIVE ACTION. ANY SUCH ACTION SHALL REQUIRE CONSTRUCTION MANAGER APPROVAL.
12. UNISTRUT SHALL BE FORMED STEEL CHANNEL STRUT FRAMING AS MANUFACTURED BY UNISTRUT CORP., WAYNE, MI OR EQUAL STRUT MEMBERS SHALL BE 1 5/8"x1 5/8"x12GA, UNLESS OTHERWISE NOTED, AND SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION.
13. EPOXY ANCHOR ASSEMBLY SHALL CONSIST OF STAINLESS STEEL ANCHOR ROD WITH NUTS & WASHERS, AN INTERNALLY THREADED INSERT, A SCREEN TUBE AND A EPOXY ADHESIVE. THE ANCHORING SYSTEM SHALL BE THE HILTI-HIT HY-70 AND OR HY-200 SYSTEMS (AS SPECIFIED IN DWG.) OR ENGINEERS APPROVED EQUAL.
14. EXPANSION BOLTS SHALL CONFORM TO FEDERAL SPECIFICATION FF-S-325, GROUP II, TYPE A, CLASS I, HILTI KWIK BOLT III OR APPROVED EQUAL. INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
15. LUMBER SHALL COMPLY WITH THE REQUIREMENTS OF THE AMERICAN INSTITUTE OF TIMBER CONSTRUCTION AND THE NATIONAL FOREST PRODUCTS ASSOCIATION'S NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION. ALL LUMBER SHALL BE PRESSURE TREATED AND SHALL BE STRUCTURAL GRADE NO. 2 OR BETTER.
16. WHERE ROOF PENETRATIONS ARE REQUIRED, THE CONTRACTOR SHALL CONTACT AND COORDINATE RELATED WORK WITH THE BUILDING OWNER AND THE EXISTING ROOF INSTALLER. WORK SHALL BE PERFORMED IN SUCH A MANNER AS TO NOT VOID THE EXISTING ROOF WARRANTY. ROOF SHALL BE WATERTIGHT.
17. ALL FIBERGLASS MEMBERS USED ARE AS MANUFACTURED BY STRONGWELL COMPANY OF BRISTOL, VA 24203. ALL DESIGN CRITERIA FOR THESE MEMBERS IS BASED ON INFORMATION PROVIDED IN THE DESIGN MANUAL. ALL REQUIREMENTS PUBLISHED IN SAID MANUAL MUST BE STRICTLY ADHERED TO.
18. NO MATERIALS TO BE ORDERED AND NO WORK TO BE COMPLETED UNTIL SHOP DRAWINGS HAVE BEEN REVIEWED AND APPROVED IN WRITING.
19. SUBCONTRACTOR SHALL FIREPROOF ALL STEEL TO PRE-EXISTING CONDITIONS.

SPECIAL INSPECTIONS (REFERENCE IBC CHAPTER 17):

GENERAL: WHERE APPLICATION IS MADE FOR CONSTRUCTION, THE OWNER OR THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE ACTING AS THE OWNER'S AGENT SHALL EMPLOY ONE OR MORE APPROVED AGENCIES TO PERFORM INSPECTIONS DURING CONSTRUCTION ON THE TYPES OF WORK LISTED IN THE INSPECTION CHECKLIST ABOVE.

THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE AND ENGINEERS OF RECORD INVOLVED IN THE DESIGN OF THE PROJECT ARE PERMITTED TO ACT AS THE APPROVED AGENCY AND THEIR PERSONNEL ARE PERMITTED TO ACT AS THE SPECIAL INSPECTOR FOR THE WORK DESIGNED BY THEM, PROVIDED THOSE PERSONNEL MEET THE QUALIFICATION REQUIREMENTS.

STATEMENT OF SPECIAL INSPECTIONS: THE APPLICANT SHALL SUBMIT A STATEMENT OF SPECIAL INSPECTIONS PREPARED BY THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE IN ACCORDANCE WITH SECTION 107.1 AS A CONDITION FOR ISSUANCE. THIS STATEMENT SHALL BE IN ACCORDANCE WITH SECTION 1705.

REPORT REQUIREMENT: SPECIAL INSPECTORS SHALL KEEP RECORDS OF INSPECTIONS. THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL, AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE. REPORTS SHALL INDICATE THAT WORK INSPECTED WAS OR WAS NOT COMPLETED IN CONFORMANCE TO APPROVED CONSTRUCTION DOCUMENTS. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF THEY ARE NOT CORRECTED, THE DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE BUILDING OFFICIAL AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE. A FINAL REPORT DOCUMENTING REQUIRED SPECIAL INSPECTIONS SHALL BE SUBMITTED.

SPECIAL INSPECTION CHECKLIST**BEFORE CONSTRUCTION**

CONSTRUCTION/INSTALLATION INSPECTIONS AND TESTING REQUIRED (COMPLETED BY ENGINEER OF RECORD)	REPORT ITEM
N/A	ENGINEER OF RECORD APPROVED SHOP DRAWINGS ¹
N/A	MATERIAL SPECIFICATIONS REPORT ²
N/A	FABRICATOR NDE INSPECTION
N/A	PACKING SLIPS ³

ADDITIONAL TESTING AND INSPECTIONS:**DURING CONSTRUCTION**

CONSTRUCTION/INSTALLATION INSPECTIONS AND TESTING REQUIRED (COMPLETED BY ENGINEER OF RECORD)	REPORT ITEM
REQUIRED	STEEL INSPECTIONS
N/A	HIGH STRENGTH BOLT INSPECTIONS
N/A	HIGH WIND ZONE INSPECTIONS ⁴
N/A	FOUNDATION INSPECTIONS
N/A	CONCRETE COMP. STRENGTH, SLUMP TESTS AND PLACEMENT
N/A	POST INSTALLED ANCHOR VERIFICATION ⁵
N/A	GROUT VERIFICATION
N/A	CERTIFIED WELD INSPECTION
N/A	EARTHWORK: LIFT AND DENSITY
N/A	ON SITE COLD GALVANIZING VERIFICATION
N/A	GUY WIRE TENSION REPORT

ADDITIONAL TESTING AND INSPECTIONS:**AFTER CONSTRUCTION**

CONSTRUCTION/INSTALLATION INSPECTIONS AND TESTING REQUIRED (COMPLETED BY ENGINEER OF RECORD)	REPORT ITEM
REQUIRED	MODIFICATION INSPECTOR REDLINE OR RECORD DRAWINGS ⁶
N/A	POST INSTALLED ANCHOR PULL-OUT TESTING
REQUIRED	PHOTOGRAPHS

ADDITIONAL TESTING AND INSPECTIONS:**T-MOBILE
NORTHEAST LLC**

15-03-01/23/24/25/26/27/28/29/30/31/32/33/34/35/36/37/38/39/40/41/42/43/44/45/46/47/48/49/50/51/52/53/54/55/56/57/58/59/60/61/62/63/64/65/66/67/68/69/70/71/72/73/74/75/76/77/78/79/80/81/82/83/84/85/86/87/88/89/90/91/92/93/94/95/96/97/98/99/100/101/102/103/104/105/106/107/108/109/110/111/112/113/114/115/116/117/118/119/120/121/122/123/124/125/126/127/128/129/130/131/132/133/134/135/136/137/138/139/140/141/142/143/144/145/146/147/148/149/150/151/152/153/154/155/156/157/158/159/160/161/162/163/164/165/166/167/168/169/170/171/172/173/174/175/176/177/178/179/180/181/182/183/184/185/186/187/188/189/190/191/192/193/194/195/196/197/198/199/200/201/202/203/204/205/206/207/208/209/210/211/212/213/214/215/216/217/218/219/220/221/222/223/224/225/226/227/228/229/230/231/232/233/234/235/236/237/238/239/240/241/242/243/244/245/246/247/248/249/250/251/252/253/254/255/256/257/258/259/260/261/262/263/264/265/266/267/268/269/270/271/272/273/274/275/276/277/278/279/280/281/282/283/284/285/286/287/288/289/290/291/292/293/294/295/296/297/298/299/300/301/302/303/304/305/306/307/308/309/310/311/312/313/314/315/316/317/318/319/320/321/322/323/324/325/326/327/328/329/330/331/332/333/334/335/336/337/338/339/340/341/342/343/344/345/346/347/348/349/350/351/352/353/354/355/356/357/358/359/360/361/362/363/364/365/366/367/368/369/370/371/372/373/374/375/376/377/378/379/380/381/382/383/384/385/386/387/388/389/390/391/392/393/394/395/396/397/398/399/400/401/402/403/404/405/406/407/408/409/410/411/412/413/414/415/416/417/418/419/420/421/422/423/424/425/426/427/428/429/430/431/432/433/434/435/436/437/438/439/440/441/442/443/444/445/446/447/448/449/450/451/452/453/454/455/456/457/458/459/460/461/462/463/464/465/466/467/468/469/470/471/472/473/474/475/476/477/478/479/480/481/482/483/484/485/486/487/488/489/490/491/492/493/494/495/496/497/498/499/500/501/502/503/504/505/506/507/508/509/510/511/512/513/514/515/516/517/518/519/520/521/522/523/524/525/526/527/528/529/530/531/532/533/534/535/536/537/538/539/540/541/542/543/544/545/546/547/548/549/550/551/552/553/554/555/556/557/558/559/560/561/562/563/564/565/566/567/568/569/570/571/572/573/574/575/576/577/578/579/580/581/582/583/584/585/586/587/588/589/590/591/592/593/594/595/596/597/598/599/600/601/602/603/604/605/606/607/608/609/610/611/612/613/614/615/616/617/618/619/620/621/622/623/624/625/626/627/628/629/630/631/632/633/634/635/636/637/638/639/640/641/642/643/644/645/646/647/648/649/650/651/652/653/654/655/656/657/658/659/660/661/662/663/664/665/666/667/668/669/670/671/672/673/674/675/676/677/678/679/680/681/682/683/684/685/686/687/688/689/690/691/692/693/694/695/696/697/698/699/700/701/702/703/704/705/706/707/708/709/710/711/712/713/714/715/716/717/718/719/720/721/722/723/724/725/726/727/728/729/730/731/732/733/734/735/736/737/738/739/740/741/742/743/744/745/746/747/748/749/750/751/752/753/754/755/756/757/758/759/760/761/762/763/764/765/766/767/768/769/770/771/772/773/774/775/776/777/778/779/780/781/782/783/784/785/786/787/788/789/790/791/792/793/794/795/796/797/798/799/800/801/802/803/804/805/806/807/808/809/810/811/812/813/814/815/816/817/818/819/820/821/822/823/824/825/826/827/828/829/830/831/832/833/834/835/836/837/838/839/840/841/842/843/844/845/846/847/848/849/850/851/852/853/854/855/856/857/858/859/860/861/862/863/864/865/866/867/868/869/870/871/872/873/874/875/876/877/878/879/880/881/882/883/884/885/886/887/888/889/890/891/892/893/894/895/896/897/898/899/900/901/902/903/904/905/906/907/908/909/910/911/912/913/914/915/916/917/918/919/920/921/922/923/924/925/926/927/928/929/930/931/932/933/934/935/936/937/938/939/940/941/942/943/944/945/946/947/948/949/950/951/952/953/954/955/956/957/958/959/960/961/962/963/964/965/966/967/968/969/970/971/972/973/974/975/976/977/978/979/980/981/982/983/984/985/986/987/988/989/990/991/992/993/994/995/996/997/998/999/1000/1001/1002/1003/1004/1005/1006/1007/1008/1009/1010/1011/1012/1013/1014/1015/1016/1017/1018/1019/1020/1021/1022/1023/1024/1025/1026/1027/1028/1029/1030/1031/1032/1033/1034/1035/1036/1037/1038/1039/1040/1041/1042/1043/1044/1045/1046/1047/1048/1049/1050/1051/1052/1053/1054/1055/1056/1057/1058/1059/1060/1061/1062/1063/1064/1065/1066/1067/1068/1069/1070/1071/1072/1073/1074/1075/1076/1077/1078/1079/1080/1081/1082/1083/1084/1085/1086/1087/1088/1089/1090/1091/1092/1093/1094/1095/1096/1097/1098/1099/1100/1101/1102/1103/1104/1105/1106/1107/1108/1109/1110/1111/1112/1113/1114/1115/1116/1117/1118/1119/1120/1121/1122/1123/1124/1125/1126/1127/1128/1129/1130/1131/1132/1133/1134/1135/1136/1137/1138/1139/1140/1141/1142/1143/1144/1145/1146/1147/1148/1149/1150/1151/1152/1153/1154/1155/1156/1157/1158/1159/1160/1161/1162/1163/1164/1165/1166/1167/1168/1169/1170/1171/1172/1173/1174/1175/1176/1177/1178/1179/1180/1181/1182/1183/1184/1185/1186/1187/1188/1189/1190/1191/1192/1193/1194/1195/1196/1197/1198/1199/1200/1201/1202/1203/1204/1205/1206/1207/1208/1209/1210/1211/1212/1213/1214/1215/1216/1217/1218/1219/1220/1221/1222/1223/1224/1225/1226/1227/1228/1229/1230/1231/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APPROVED

By jmatthews at 3:49:08 PM, 5/26/2026

May 21, 2026

Project

Structural Analysis Report

Carrier Information

TMO

Site Name: 4KN0341A - US CELL - GUYED TOWER - TROY

Site Number: 4KN0341A

Commissioned By

Carmen Alvarez

carmen.alvarez@arrayinc.com

POD Information

Project Number: 26-195249

Site Data

Array Site Name: Troy-425322

Array Site Number: 425322

250' Pirod Guyed Tower

67 West Hill Road, Troy, Cheshire County, NH 03465

Latitude: 42° 49' 51.73"N, Longitude: 72° 11' 53.00"W

Dear Carmen Alvarez,

The purpose of this analysis is to determine whether the existing tower and its foundation design are capable of supporting the proposed appurtenance configuration. The tower and its foundation have been analyzed for conformance to applicable local, state, and federal codes unless otherwise stated in the report. The analysis indicates that design of the tower and its foundation are adequate for supporting the proposed loading and **will not** require modification.

Results

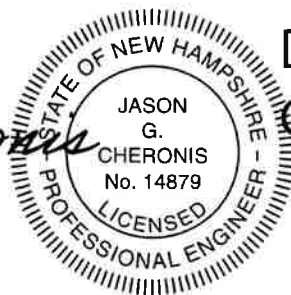
Tower Capacity: 102.9% Pass

Foundation Capacity: 70.5% Pass

Thank you for allowing us to provide these engineering services. If there are any comments or concerns please do not hesitate to call.

Sincerely,

Jason G. Cheronis P.E.
New Hampshire PE#: 14879



**Power of
Design**

Group, LLC

Digitally signed
by Power of
Design Group, LLC
Date: 2026.05.21
13:05:55 -04'00'

Design Criteria

The existing tower and its foundation have been analyzed per the following requirements.

Governing	TIA-222-H, ASCE 7-16 & 2021 IBC
Ultimate Wind Speed	112 MPH 3 Second Gust
Wind Speed with Ice	50 MPH 3 Second Gust
Radial Ice Thickness	1.5"
Structure Class	II
Exposure Category	B
Topographic Category	1
S_s	0.252
S₁	0.067

Tower Description

The following material grades were used based on original manufacturer information:

Tower Materials

Structural Component	Material Strength
Legs	ASTM A572-50 (50 KSI Yield Strength)
Bracing Members	ASTM A36 (36 KSI Yield Strength)
Bolts	ASTM A325N (92 KSI Yield Strength)
Guy Wires	EHS

Referenced Documents

Document Type	Designation	Source
Loading Form	TMO Site #: 4KN0341A Dated: 03/11/2026	Array Inc.
Structural Analysis	TEP Project #: 22265.1199187 Dated: 01/05/2026	Array Inc.
Tower and Foundation Drawings	PiRod Drawing #: 201661-B Dated: 08/01/1996	Array Inc.
Geotechnical Report	TEP Project #: 122496.10 Dated: 02/04/2013	Array Inc.
Tower Mapping	TEP Project #: 22246.1103190 Dated: 05/21/2025	Array Inc.
Tower Modification Design Drawings	B+T Group Project #: 75421 Dated: 06/13/2005	Array Inc.
Tower Modification Design Drawings	TEP Project #: 22265. 4837 Dated: 08/06/2013	Array Inc.
Tower Modification Design Drawings	All-Points Project #: NH1871794 Dated: 03/08/2018	Array Inc.
Tower Modification Design Drawings	Mission 1 Project #: 425322.03.TMO Dated: 07/15/2022	Array Inc.
Post Modification Inspection Report	Mission 1 Project #: 425322.03.TMO Dated: 11/22/2022	Array Inc.
Tower Modification Design Drawings	Paul J. Ford Project #: 46025-0075.002.8800 Dated: 07/10/2025	Array Inc.
Post Modification Inspection Report	TEP Project #: 22265.1138335 Dated: 09/26/2025	Array Inc.
Mount Analysis	TEP Project #: 22265.1234215 Dated: 03/16/2026	Array Inc.

Existing Modifications

Elevation (ft)	Modification Type	Description
0'	Foundation	Add concrete to existing base foundation
0'-250'	Re-Tension	Plumb and re-tension tower
110'-130'	Half pipe	Install half pipe
120', 180', & 240'	Bracing	Install clip on bracing (pull- offs)
200'-220'	Secondary Horizontals	Install bolt on secondary horizontals
100'-110'	Leg Splint	Install 3/4" solid round leg splint members
80'-100'	Leg Splint	Install 3/4" solid round leg splint members
60'-80'	Leg Splint	Install 1" solid round leg splint members
40'-60'	Leg Splint	Install 1-1/4" solid round leg splint members
20'-40'	Leg Splint	Install 1-1/4" solid round leg splint members
5'-20'	Leg Splint	Install 1-1/4" solid round leg splint members
0'-5'	Leg Splint	Install 3/4" solid round leg splint members
0'-5'	Half pipe leg sleeve	Install proposed 2" XXH half pipe leg sleeve
5'-110'	Half pipe leg sleeve	Install proposed 2" XXH half pipe leg sleeve
5'-110'	Sub horizontal Brace	Remove existing sub-horizontal braces
140'-160'	Sub horizontal Brace	Install proposed solid round sub-horizontal brace
20',40',60',80',100'	Flange jump	Install proposed flange jumps
0'	Guy wires	Re-tension all guy wires
0'-20'	Mid panel	Install proposed mid panel horizontal brace
240'	Guy wires	Replace existing guy wires with new 9/16" guy wires

Notes:

- All 2025 mods have been installed and confirmed per Post Modification Inspection Report 2025.
- All 2022 mods have been installed and confirmed per the Post Modification Inspection Report 2022.
- All 2018 mods are installed per drawings by All Points Technolg Corp. and are confirmed by the Tower Mapping 2025.
- All 2013 mods are installed by TEP and are confirmed by the Tower Mapping 2025.
- All 2005 mods have been installed and confirmed per the construction drawings.

Tower Loading

The following tables indicate the existing, leased, and proposed loading provided by Array for this analysis.

Existing Loading

Carrier	Mounting Level (ft)	Center Line (ft)	# of Units	Unit Manufacturer	Unit Model	# of Coax	Coax Size (in)	Note
USC	245	245	3	Amphenol	BXA-70063-8CF-EDIN-X	6	1-5/8	
			6	KMW	AM-X-CW-18-65-00T-RET			
			3	-	13ft. Sector Frames			
	230	230	6	Ericsson	RRUS 11 B12	2	1-1/4	
			3	Ericsson	RRUS 11 B5			
			12	Kaelus	DBC0056F1V51-1			
			2	Raycap	RUSDC-6267-PF-48			
			6	-	6' Mount Pipes			
			3	-	Side Arm Mounts			
Unknown	226	226	-	Pirod	6'-8' Box Arm	-	-	
VZW	218.5	220	4	Commscope	NHH-85B-R2B_TIA	14 8	1-5/8 1/2	
			2	Samsung	MT6413-77A			
			2	Samsung	RF4439d-25A			
			2	Samsung	RF4461d-13A			
			2	Raycap	RC3DC-3315-PF-48			
			2	-	Sector Mounts			
	215	215	1	-	P4-57W-PXA	1	EW63	
			1	-	Dish Mount			
ATT	198	198	3	Ericsson	RRUS 11 B2	2 2 1	2-1/4 3/4 3/8	1
			3	Raycap	DC6-48-60-18-8F			
			3	-	RRH Mounts			
	195	195	9	KMW	AM-X-CD-17-65-00T-RET_TIA			
			3	CCI	HPA65R-BU8A_TIA			
			3	Ericsson	RADIO 4478			
			3	Ericsson	RADIO 4415			
			3	-	Sector Mounts			
TMO	185	185	3	RFS	APXVLL19P_43-C-A20	2	6 X 24 Hybrid	
			3	RFS	APXVAALL24_43-U-NA20			
			3	Ericsson	4480 B71+B85			
			3	Ericsson	4460 B25 B66			
			3	SitePro1	VFA12-HD Sector mounts			
Unknown	172.83	172.83	1	Generic	1' x 2' Side Arm	-	-	
VZW	171	171	1	-	30" Omni Whip	1	1/2	
Unknown	170	170	1	-	8' Yagi w/ (10) Elements	1	1/2	
	164	164	1	-	8' Yagi w/ (10) Elements	1	1/2	
	161	161	1	-	6' Grid	1	1/2	
	152	152	1	-	13' Yagi	2	1/2	
	144	144	1		13' Yagi	1	1/2	
	140	140	1	-	8' Yagi w/ (10) Elements	1	1/2	
	136	136	1	-	8' Yagi w/ (10) Elements	1	1/2	
	133.5	133.5	1	-	8' Yagi w/ (10) Elements	1	1/2	

	130	130	1	-	15' Yagi	2	1/2	
			1	-	8' Yagi w/ (10) Elements			
	111	111	1	-	15' Yagi	1	1/2	
	104	104	1	-	15' Yagi	1	1/2	
	101	101	1	-	39" x 19" x 8" Panel	1	1/2	
			1	-	Pipe Mount			

Notes:

- 1) See "Coax Layout" for existing cable configuration

Carrier Final Loading

Carrier	Mounting Level (ft)	Center Line (ft)	# of Units	Unit Manufacturer	Unit Model	# of Coax	Coax Size (in)	Note
TMO	185	185	3	RFS	APXVLL19P_43-C-A20	3	6 X 24 Hybrid	1
			3	RFS	APXVAALL24_43-U-NA20			
			3	Ericsson	AIR 6419 B41			
			3	Ericsson	4480 B71+B85			
			3	Ericsson	4460 B25 B66			
			3	SitePro1	VFA12-HD Sector mounts			

Notes:

- 1) See "Coax Layout" for proposed cable configuration

Results

Capacity Summary of Structural Components

Section No.	Elevation (ft)	Component Type	Size	Critical Element	P lbs	φPallow lbs	% Capacity	Pass/Fail
T1	250 - 240	Leg	1.5 SR	3	-6085.81	55954.90	10.9	Pass
T2	240 - 220	Leg	1.5 SR	43	-41724.00	52899.40	78.9	Pass
T3	220 - 200	Leg	1.5 SR	117	-51142.10	73221.00	69.8	Pass
T4	200 - 180	Leg	1.5 SR	200	29664.30	37695.20	78.7	Pass
T5	180 - 160	Leg	1.5 SR	285	-56835.40	73221.00	77.6	Pass
T6	160 - 140	Leg	1.5 SR	369	-57862.10	73221.00	79.0	Pass
T7	140 - 130	Leg	1.5 SR	453	-54496.20	71947.10	75.7	Pass
T8	130 - 120	Leg	1.5" SR w/ P2-XX Half Pipe	494	-54752.00	130615.00	41.9	Pass
T9	120 - 117	Leg	1.5" SR w/ P2-XX Half Pipe	539	-61049.10	130463.00	46.8	Pass
T10	117 - 114.67	Leg	1.5" SR w/ P2-XX Half Pipe	555	-59488.90	130487.00	45.6	Pass
T11	114.67 - 112.33	Leg	1.5" SR w/ P2-XX Half Pipe	567	-60933.30	130414.00	46.7	Pass
T12	112.33 - 110	Leg	1.5" SR w/ P2-XX Half Pipe	579	-62093.00	130487.00	47.6	Pass
T13	110 - 107.67	Leg	1.5" SR w/ P2-XX Half Pipe	591	-61537.30	107303.00	57.3	Pass
T14	107.67 - 105.33	Leg	1.5" SR w/ P2-XX Half Pipe	604	-63671.50	107063.00	59.5	Pass
T15	105.33 - 103	Leg	1.5" SR w/ P2-XX Half Pipe	615	-62391.60	107303.00	58.1	Pass
T16	103 - 100	Leg	1.5" SR w/ P2-XX Half Pipe	626	-61361.40	107223.00	57.2	Pass
T17	100 - 80	Leg	1.5" SR w/ P2-XX Half Pipe	642	-66677.40	107223.00	62.2	Pass
T18	80 - 60	Leg	1.5" SR w/ P2-XX Half Pipe	716	-68006.10	107223.00	63.4	Pass
T19	60 - 40	Leg	1.5" SR w/ P2-XX Half Pipe	790	-72340.60	107223.00	67.5	Pass
T20	40 - 20	Leg	1.5" SR w/ P2-XX Half Pipe	864	-75715.00	107223.00	70.6	Pass

T21	20 - 5	Leg	1.5" SR w/ P2-XX Half Pipe	938	-76134.90	105880.00	71.9	Pass
T22	5 - 0	Leg	1.5" SR w/ P2-XX Half Pipe	991	-80502.40	104181.00	77.3	Pass
T1	250 - 240	Diagonal	0.75 SR	14	-2397.57	11724.20	20.4	Pass
T2	240 - 220	Diagonal	0.75 SR	104	-5026.20	11780.10	42.7	Pass
T3	220 - 200	Diagonal	0.75 SR	190	-2219.94	11780.10	18.8	Pass
T4	200 - 180	Diagonal	0.75 SR	212	-5873.57	11780.10	49.9	Pass
T5	180 - 160	Diagonal	0.75 SR	350	-4488.13	11780.10	38.1	Pass
T6	160 - 140	Diagonal	0.75 SR	381	-2315.12	11780.10	19.7	Pass
T7	140 - 130	Diagonal	0.75 SR	486	-2481.31	11771.90	21.1	Pass
T8	130 - 120	Diagonal	0.75 SR	502	-3836.37	11720.20	32.7	Pass
T9	120 - 117	Diagonal	0.75 SR	545	-1157.47	11725.80	9.9	Pass
T10	117 - 114.67	Diagonal	0.75 SR	557	-3049.87	11724.90	26.0	Pass
T11	114.67 - 112.33	Diagonal	0.75 SR	569	-2705.85	11727.70	23.1	Pass
T12	112.33 - 110	Diagonal	0.75 SR	585	-1722.67	11724.90	14.7	Pass
T13	110 - 107.67	Diagonal	0.75 SR	595	-2446.00	11724.90	20.9	Pass
T14	107.67 - 105.33	Diagonal	0.75 SR	606	-2220.04	11727.70	18.9	Pass
T15	105.33 - 103	Diagonal	0.75 SR	618	-1961.90	11724.90	16.7	Pass
T16	103 - 100	Diagonal	0.75 SR	637	-2573.90	11725.80	22.0	Pass
T17	100 - 80	Diagonal	0.75 SR	708	-2442.06	11725.80	20.8	Pass
T18	80 - 60	Diagonal	0.5625 SR	727	-2483.31	4455.35	55.7	Pass
T19	60 - 40	Diagonal	0.5625 SR	847	-1951.21	4455.35	43.8	Pass
T20	40 - 20	Diagonal	0.5625 SR	930	-1740.09	4455.35	39.1	Pass
T21	20 - 5	Diagonal	0.5625 SR	951	-1865.55	4407.72	42.3	Pass
T22	5 - 0	Diagonal	0.5625 SR	1000	-5158.78	5639.65	91.5	Pass
T1	250 - 240	Horizontal	0.75 SR	25	-252.72	6016.18	4.2	Pass
T2	240 - 220	Horizontal	0.75 SR	99	-4169.46	6016.18	69.3	Pass
T4	200 - 180	Horizontal	0.75 SR	605	2802.02	19880.40	14.1	Pass
T15	105.33 - 103	Horizontal	0.75 SR	616	2526.61	19880.40	12.7	Pass
T17	100 - 80	Horizontal	0.75 SR	659	3081.97	19880.40	15.5	Pass
T18	80 - 60	Horizontal	0.75 SR	733	2279.18	19880.40	11.5	Pass
T19	60 - 40	Horizontal	0.75 SR	807	2360.80	19880.40	11.9	Pass
T20	40 - 20	Horizontal	0.75 SR	881	2490.86	19880.40	12.5	Pass
T21	20 - 5	Horizontal	0.75 SR	981	2477.15	19880.40	12.5	Pass
T1	250 - 240	Secondary	0.75 SR	24	-0.07	11908.10	0.1	Pass
T2	240 - 220	Secondary	0.75 SR	98	-0.08	11908.10	0.1	Pass
T3	220 - 200	Horizontal	0.75 SR	143	-885.81	6016.18	14.7	Pass
T4	200 - 180	Horizontal	0.75 SR	218	-908.45	6016.18	15.1	Pass
T5	180 - 160	Horizontal	0.75 SR	311	-992.33	6016.18	16.5	Pass
T6	160 - 140	Horizontal	0.75 SR	395	-1002.20	6016.18	16.7	Pass
T7	140 - 130	Horizontal	0.75 SR	473	-964.93	6016.18	16.0	Pass
T8	130 - 120	Horizontal	0.75 SR	508	-980.95	6333.36	15.5	Pass
T9	120 - 117	Horizontal	0.75 SR	551	-1057.40	6333.36	16.7	Pass
T10	117 - 114.67	Horizontal	0.75 SR	563	-1030.38	6333.36	16.3	Pass
T11	114.67 - 112.33	Horizontal	0.75 SR	575	-1055.40	6333.36	16.7	Pass
T12	112.33 - 110	Horizontal	0.75 SR	588	-1075.48	6333.36	17.0	Pass
T13	110 - 107.67	Horizontal	0.75 SR	601	-0.03	11988.80	0.1	Pass
T14	107.67 - 105.33	Horizontal	0.75 SR	612	-0.03	11988.80	0.1	Pass
T15	105.33 - 103	Horizontal	0.75 SR	623	-0.03	11988.80	0.1	Pass
T16	103 - 100	Horizontal	0.75 SR	639	-0.03	11988.80	0.1	Pass

T17	100 - 80	Secondary	0.75 SR	713	-0.03	11988.80	0.1	Pass
T18	80 - 60	Secondary	0.75 SR	787	-0.03	11988.80	0.1	Pass
T19	60 - 40	Secondary	0.75 SR	830	-0.03	11988.80	0.0	Pass
T20	40 - 20	Secondary	0.75 SR	935	-0.03	11988.80	0.0	Pass
T21	20 - 5	Secondary	0.75 SR	988	-0.03	11988.80	0.0	Pass
T1	250 - 240	Top Girt	0.75 SR	4	-141.95	6016.18	2.4	Pass
T3	220 - 200	Top Girt	0.75 SR	120	-1051.14	6016.18	17.5	Pass
T4	200 - 180	Top Girt	0.75 SR	203	-908.45	6016.18	15.1	Pass
T6	160 - 140	Top Girt	0.75 SR	371	-1002.20	6016.18	16.7	Pass
T7	140 - 130	Top Girt	0.75 SR	455	-964.93	6016.18	16.0	Pass
T8	130 - 120	Top Girt	0.75 SR	496	-980.95	6333.36	15.5	Pass
T13	110 - 107.67	Top Girt	0.75 SR	594	-1075.48	6333.36	17.0	Pass
T16	103 - 100	Top Girt	0.75 SR	629	-1111.30	6333.36	17.5	Pass
T17	100 - 80	Top Girt	0.75 SR	644	-1154.89	6333.36	18.2	Pass
T18	80 - 60	Top Girt	0.75 SR	717	-1204.50	6333.36	19.0	Pass
T20	40 - 20	Top Girt	0.75 SR	866	-1311.42	6333.36	20.7	Pass
T21	20 - 5	Top Girt	0.75 SR	940	-1318.70	6333.36	20.8	Pass
T22	5 - 0	Top Girt	0.75 SR	992	14347.20	19880.40	72.2	Pass
T1	250 - 240	Bottom Girt	0.75 SR	9	-1070.20	6016.18	17.8	Pass
T2	240 - 220	Bottom Girt	0.75 SR	49	-1332.57	6016.18	22.1	Pass
T3	220 - 200	Bottom Girt	0.75 SR	122	-885.81	6016.18	14.7	Pass
T4	200 - 180	Bottom Girt	0.75 SR	207	-2645.37	6016.18	44.0	Pass
T5	180 - 160	Bottom Girt	0.75 SR	290	-992.33	6016.18	16.5	Pass
T6	160 - 140	Bottom Girt	0.75 SR	375	-1036.88	6016.18	17.2	Pass
T8	130 - 120	Bottom Girt	0.75 SR	501	-2113.25	6333.36	33.4	Pass
T16	103 - 100	Bottom Girt	0.75 SR	632	-1111.30	6333.36	17.5	Pass
T17	100 - 80	Bottom Girt	0.75 SR	647	-1154.89	6333.36	18.2	Pass
T18	80 - 60	Bottom Girt	0.75 SR	720	-1204.50	6333.36	19.0	Pass
T19	60 - 40	Bottom Girt	0.75 SR	795	-1263.60	6333.36	20.0	Pass
T20	40 - 20	Bottom Girt	0.75 SR	869	-1311.42	6333.36	20.7	Pass
T22	5 - 0	Bottom Girt	0.75 SR	997	2633.77	19880.40	13.2	Pass
T2	240 - 220	Mid Girt	0.75 SR	52	-1145.03	6016.18	19.0	Pass
T3	220 - 200	Mid Girt	0.75 SR	124	146.85	19880.40	0.7	Pass
T4	200 - 180	Mid Girt	0.75 SR	208	-171.84	6016.18	2.9	Pass
T5	180 - 160	Mid Girt	0.75 SR	294	-1310.17	6016.18	21.8	Pass
T6	160 - 140	Mid Girt	0.75 SR	378	388.57	19880.40	2.0	Pass
T17	100 - 80	Mid Girt	0.75 SR	649	2519.57	19880.40	12.7	Pass
T18	80 - 60	Mid Girt	0.75 SR	723	1821.83	19880.40	9.2	Pass
T19	60 - 40	Mid Girt	0.75 SR	797	1934.93	19880.40	9.7	Pass
T20	40 - 20	Mid Girt	0.75 SR	871	2049.58	19880.40	10.3	Pass
T2	240 - 220	Guy A@237	9/16	1022	13484.80	21000.00	64.2	Pass
T5	180 - 160	Guy A@177	7/16	1040	12813.80	12480.00	102.7	Pass
T10	117 - 114.67	Guy A@117	3/8	1059	8193.24	9240.00	88.7	Pass
T19	60 - 40	Guy A@59.3333	3/8	1066	6767.32	9240.00	73.2	Pass
T2	240 - 220	Guy B@237	9/16	1016	13220.10	21000.00	63.0	Pass
T5	180 - 160	Guy B@177	7/16	1034	12839.90	12480.00	102.9	Pass
T10	117 - 114.67	Guy B@117	3/8	1052	8262.53	9240.00	89.4	Pass
T19	60 - 40	Guy B@59.3333	3/8	1065	7223.87	9240.00	78.2	Pass
T2	240 - 220	Guy C@237	9/16	1011	13155.10	21000.00	62.6	Pass
T5	180 - 160	Guy C@177	7/16	1029	12779.90	12480.00	102.4	Pass
T10	117 - 114.67	Guy C@117	3/8	1047	8226.67	9240.00	89.0	Pass
T19	60 - 40	Guy C@59.3333	3/8	1064	7240.10	9240.00	78.4	Pass
T2	240 - 220	Top Guy Pull-Off@237	(2) 7/8" SR	46	-7806.08	18717.10	41.7	Pass
T5	180 - 160	Top Guy Pull-Off@177	(2) 7/8" SR	288	-7679.06	18717.10	41.0	Pass
T9	120 - 117	Top Guy Pull-Off@117	(2) 7/8" SR	543	-5512.13	19703.90	28.0	Pass
T19	60 - 40	Top Guy Pull-Off@59.3333	0.75 SR	793	4040.55	19880.40	20.3	Pass
T2	240 - 220	Torque Arm Top@237	2L3X3x5/16x3/8	1024	16805.00	115020.00	14.6	Pass

T5	180 - 160	Torque Arm Top@177	2L3x3x5/16x3/8	1037	16427.90	115020.00	14.3	Pass
T10	117 - 114.67	Torque Arm Top@117	2L3x3x5/16x3/8	1055	11408.10	115020.00	9.9	Pass
T2	240 - 220	Torque Arm Bottom@237	2L3x3x5/16x3/8	1026	-15672.90	97678.90	16.0	Pass
T5	180 - 160	Torque Arm Bottom@177	2L3x3x5/16x3/8	1045	-14005.30	97678.90	14.3	Pass
T10	117 - 114.67	Torque Arm Bottom@117	2L3x3x5/16x3/8	1057	-8825.49	97829.90	9.0	Pass
Summary								
		Leg (T6)				79.0		Pass
		Diagonal (T22)				91.5		Pass
		Horizontal (T2)				69.3		Pass
		Secondary Horizontal (T12)				17.0		Pass
		Top Girt (T22)				72.2		Pass
		Bottom Girt (T4)				44.0		Pass
		Mid Girt (T5)				21.8		Pass
		Guy A (T5)				102.7		Pass
		Guy B (T5)				102.9		Pass
		Guy C (T5)				102.4		Pass
		Top Guy Pull-Off (T2)				41.7		Pass
		Torque Arm Top (T2)				14.6		Pass
		Torque Arm Bottom (T2)				16.0		Pass
		Bolt Checks				34.2		Pass
		RATING =				102.9		Pass

Additional Capacities

Notes	Component	Elevation (ft)	% Capacity	Pass/Fail
1	Anchor Block@150'	0	70.5	Pass
	Base Foundation	0	17.4	Pass
2	Seismic Analysis	-	36.0	Pass

Notes:

- 1) See "Additional Calculations" for evidence supporting % capacity.
2) See "Seismic Analysis" for evidence supporting % capacity.

Conclsions and Recommendations

The tower and its foundation were found to be adequate to support the proposed appurtenance loading and will not require modification.

Assumptions

This structural analysis is based on the theoretical capacity of the members and is not a condition assessment of the tower or its foundation. It has been compiled from information supplied, and therefore, its results are based on and are as accurate as that supplied data. POD has made no independent determination of its accuracy. The following assumptions were made for this structural analysis.

1. Tower and foundation were built in accordance with the manufacturer's specifications.
2. The tower and foundation have been maintained in accordance with the manufacturer's specifications.
3. The configuration of antennas, transmission cables, mounts and other appurtenances are as specified in the Existing/Leased Loading and Proposed Loading tables, and specified documents.
4. All mounts, if applicable, are considered adequate to support the loading. No actual analysis of the mounts was performed. This analysis is limited to analyzing the tower and foundation only.
5. Material grades and mount sizes, weights, and manufacturers are best estimates determined by information provided and previous experience without the benefit of a site visit by POD.

If any of these assumptions are not valid or have been made in error, this analysis may be affected, and POD should be allowed to review any new information to determine its effect on the structural integrity of the tower and its foundation.

Disclaimer of Warranties

POD Group has not performed a site visit to the structure to verify the member sizes or antenna/coax loading unless noted otherwise. If the existing conditions are not as represented in this report, we should be contacted immediately to evaluate the significance of the discrepancy. This is not a condition assessment of the structure or foundation. This report does not replace a full structure inspection. The structure, foundations, and mounting systems are assumed to have been properly fabricated, erected, maintained, in good condition, twist free, and plumb.

The engineering services rendered by POD Group in connection with this Structural Analysis are limited to a computer analysis of the structure and theoretical capacity of its main structural members. No allowance was made for any damaged, bent, missing, loose, or rusted members (above and below ground). No allowance was made for loose bolts or cracked welds.

POD Group does not analyze the fabrication of the structure (including welding). It is not possible to have all the very detailed information needed to perform a thorough analysis of every structural sub-component and connection of an existing structure. POD Group provides a limited scope of service in that we cannot verify the adequacy of every weld, plate connection detail, etc. The purpose of this report is to assess the feasibility of adding appurtenances usually accompanied by transmission lines to the structure.

It is the owner's responsibility to determine the amount of ice accumulation in excess of the code specified amount, if any, that should be considered in the structural analysis.

The attached sketches are a schematic representation of the analyzed structure. If any material is fabricated from these sketches, the contractor shall be responsible for field verifying the existing conditions, proper fit, and clearance in the field. Any mention of structural modifications are reasonable estimates and should not be used as a precise construction document. Precise modification drawings are obtainable from POD Group, but are beyond the scope of this report.

Miscellaneous items such as antenna mounts, etc., have not been designed or detailed as a part of our work. We recommend that material of adequate size and strength be purchased from a reputable tower manufacturer.

POD Group makes no warranties, expressed and/or implied, in connection with this report and disclaims any liability arising from material, fabrication, and erection of this structure. POD Group will not be responsible whatsoever, for or on account of, consequential or incidental damages sustained by any person, firm, or organization as a result of any data or conclusions contained in this report. The maximum liability of POD Group pursuant to this report will be limited to the total fee received for preparation of this report.

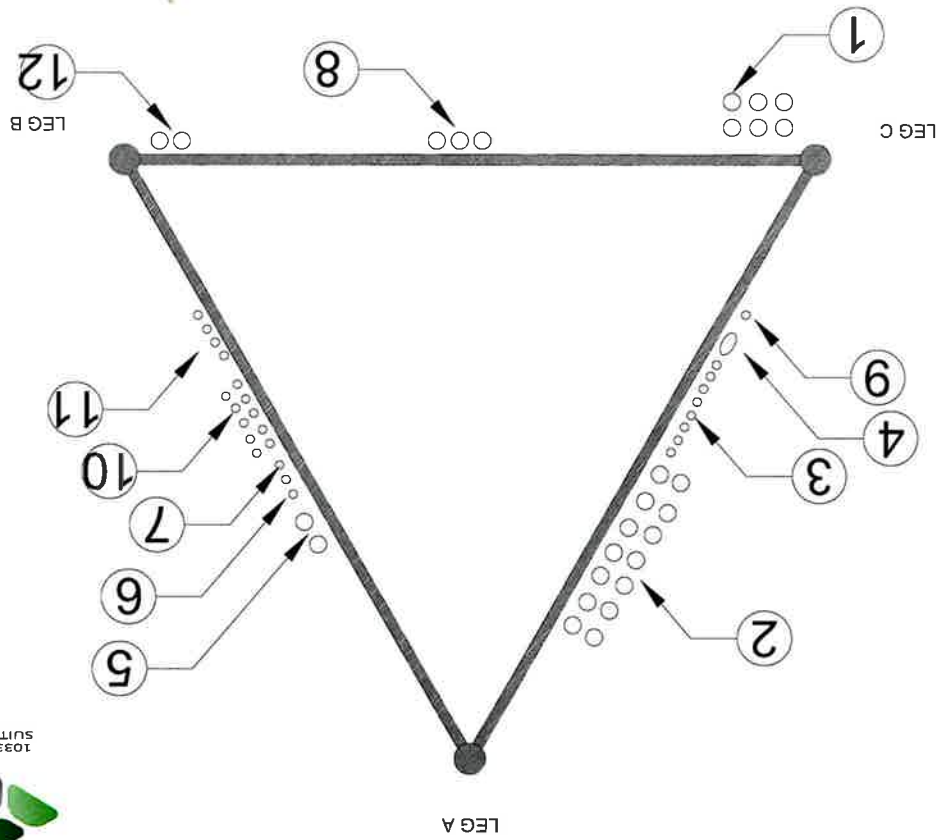
Coax Layout

250' Pirod Guyed Tower

POD Group

425322

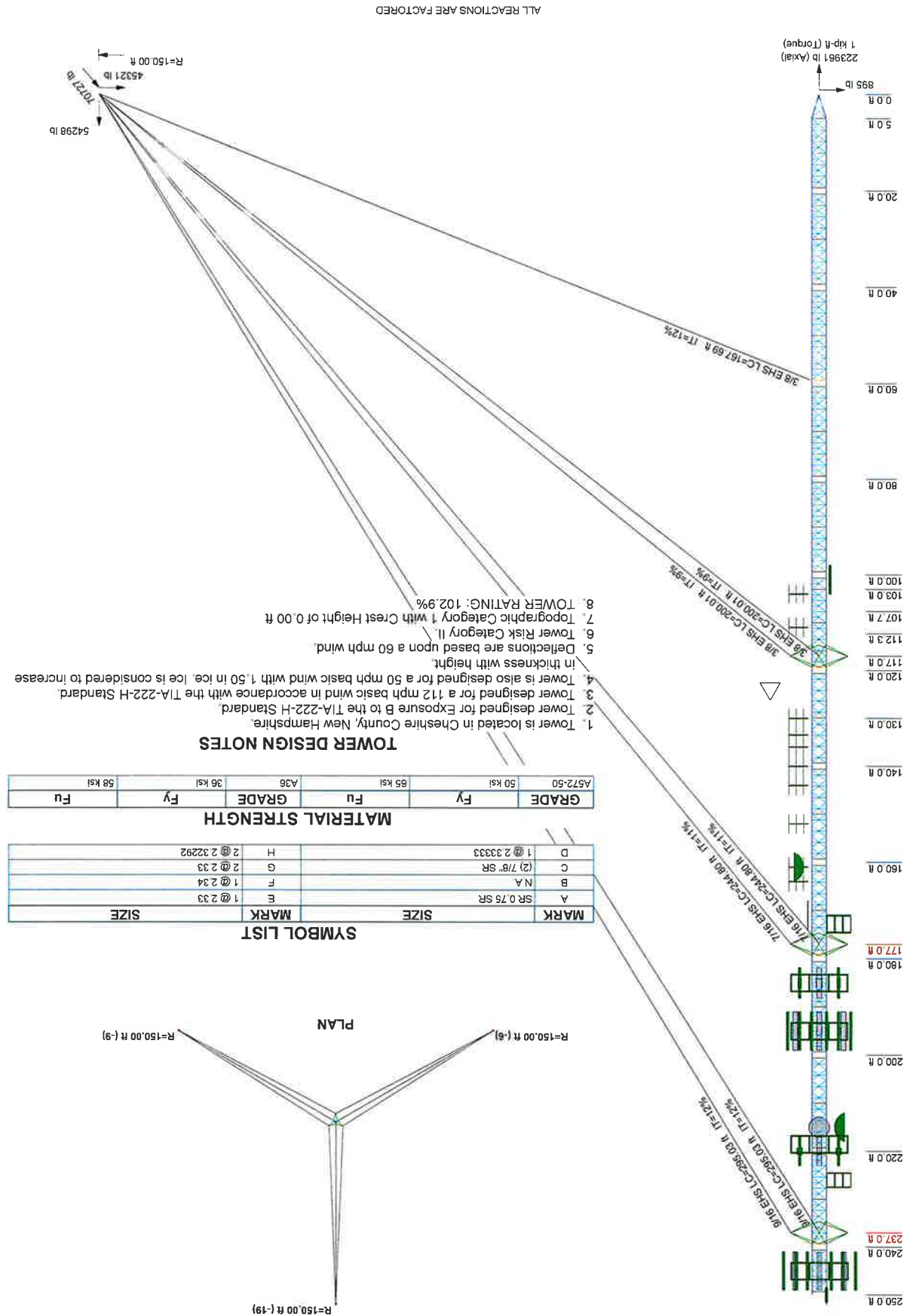
COAX LAYOUT						
CALLOUT	CARRIER	START ELEVATION (FT)	END ELEVATION (FT)	SIZE (IN)	QUANTITY	NOTES
1	USC	0	245	1-5/8	6	Existing
2	VZW	0	218.5	1 5/8	14	Existing
3	VZW	0	218.5	1/2	8	Existing
4	VZW	0	215	EW63	1	Existing
5	ATT	0	198	2 1/4	2	Existing
6	ATT	0	198	3/4	2	Existing
7	ATT	0	198	3/8	1	Existing
8	TMO	0	185	6 X 24 Hybrid	3	Existing & Proposed
9	VZW	0	171	1/2	1	Existing
10	Unknown	0	Varies	1/2	10	1@101',104',111',133.5',136',140',144',161',164',170'
11	Unknown	0	Varies	1/2	4	2@130',152'
12	USC	0	245	1-1/4	2	Existing





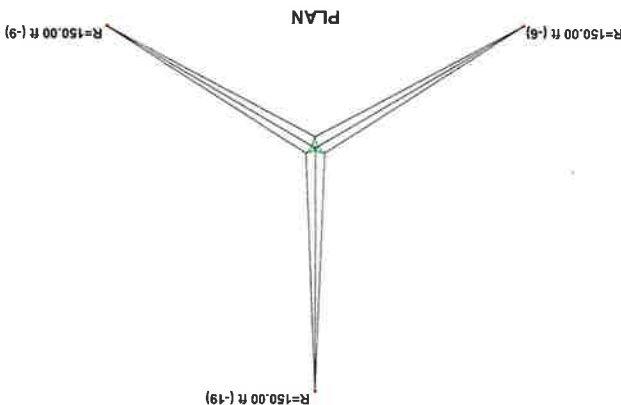
POD Group
1033 E Turkeyfoot Lake Rd. Suite 206
Green OH 44312
Phone: 330-961-7440
FAX:

Job: 425322
Project: 26-195249
Client: Arroy Inc.
Code: T/A-222-H
Date: 05/21/26
Drawn by: utiangant
App'd: _____
Scale: NTS
Dwg No: E-1



MARK	SIZE	MARK	SIZE
A	SR 0.75 SR	E	1 @ 2.33
B	N A	F	1 @ 2.34
C	(2) 7/8" SR	G	2 @ 2.33
D	1 @ 2.33333	H	2 @ 2.32292

DESIGNED APPURTENANCE LOADING



inxTower POD Group 1033 E Turkeyfoot Lake Rd, Suite 206 Green OH- 44312 Phone: 330-961-7440 FAX:			
Job	425322	Project	26-195249
		Client	Array Inc.
Page	1 of 57	Date	11:35:23 05/21/26
		Designed by	utoluganti

Tower Input Data

The main tower is a 3x guyed tower with an overall height of 250.00 ft above the ground line.

The base of the tower is set at an elevation of 0.00 ft above the ground line.

The face width of the tower is 3.00 ft at the top and tapered at the base.

This tower is designed using the T1A-222-H standard.

The following design criteria apply:

Tower is located in Cheshire County, New Hampshire.

Tower base elevation above sea level: 1240.64 ft.

Basic wind speed of 112 mph.

Risk Category II.

Exposure Category B.

Simplified Topographic Factor Procedure for wind speed-up calculations is used.

Topographic Category: 1.

Crest Height: 0.00 ft.

Nominal ice thickness of 1.5000 in.

Ice thickness is considered to increase with height.

Ice density of 56 pcf.

A wind speed of 50 mph is used in combination with ice.

Temperature drop of 50 °F.

Deflections calculated using a wind speed of 60 mph.

Pressures are calculated at each section.

Stress ratio used in tower member design is 1.

Safety factor used in guy design is 1.

Local bending stresses due to climbing loads, feed line supports, and appurtenance mounts are not considered.

Options

Consider Moments - Legs	Assume Legs Pinned	✓	Calculate Redundant Bracing Forces	✓
Consider Moments - Horizontals	Assume Rigid Index Plate	✓	Ignore Redundant Members in FEA	✓
Consider Moments - Diagonals	Use Clear Spans For Wind Area	✓	SR Leg Bolts Resist Compression	✓
Use Moment Magnification	Use Clear Spans For K/Lr	✓	All Leg Panels Have Same Allowable	
Use Code Stress Ratios	Retension Guys To Initial Tension	✓	Offset Girt At Foundation	✓
Use Code Safety Factors - Guys	Bypass Mast Stability Checks	✓	Consider Feed Line Torque	✓
Escalate Ice	Use Azimuth Dish Coefficients	✓	Include Angle Block Shear Check	✓
Always Use Max Kz	Project Wind Area of Appurtenances	✓	Use T1A-222-H Bracing Resist. Exemption	
Kz In Exposure D Hurricane Region	Alternative Appurt. EPA Calculation	✓	Use T1A-222-H Tension Splice Exemption	
Include Bolts In Member Capacity	Autocalc Torque Arm Areas	✓	Poles	
Leg Bolts Are At Top Of Section	Add IBC, 6D+W Combination	✓	Include Shear-Torsion Interaction	
Secondary Horizontal Braces Leg	Sort Capacity Reports By Component	✓	Always Use Sub-Critical Flow	
Use Diamond Inner Bracing (4 Sided)	Triangulate Diamond Inner Bracing	✓	Use Top Mounted Sockets	
SR Members Have Cut Ends	Treat Feed Line Bundles As Cylinder	✓	Pole Without Linear Attachments	
SR Members Are Concentric	Ignore K/Lr For 60 Deg. Angle Legs		Pole With Shroud Or No Appurtenances	
Distribute Leg Loads As Uniform	Use ASCE 10 X-Brace Ly Rules		Outside and Inside Corner Radii Are Known	
Use Special Wind Profile				

inxTower

POD Group
 1033 E Turkeyfoot Lake Rd. Suite 206
 Green OH- 44312
 Phone: 330-961-7440
 FAX:

Job

425322

Project

26-195249

Client

Array Inc.

Page

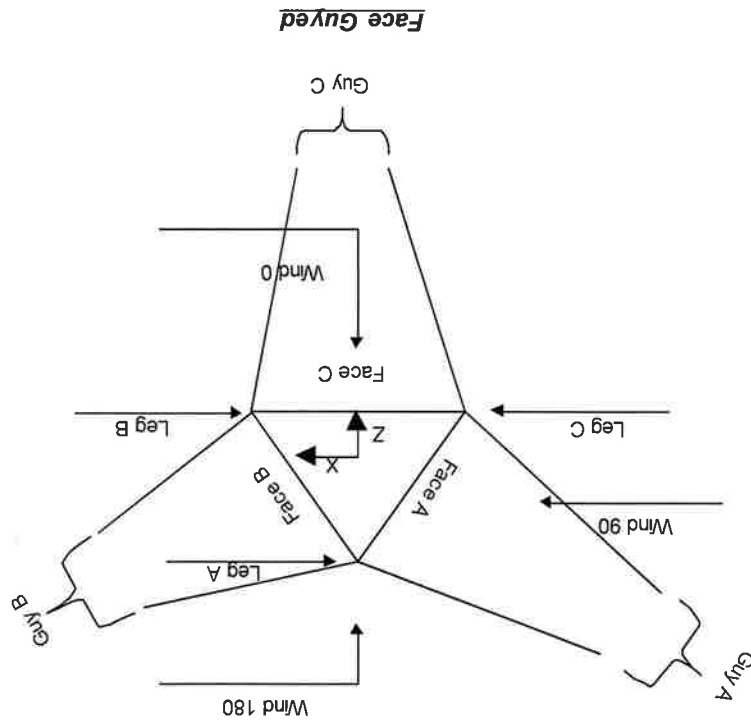
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Date

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Designed by

utoluganti



Tower Section Geometry

Tower Section	Tower Elevation	Assembly Database	Description	Section Width	Number of Sections	Section Length
T1	250.00-240.00			3.00		10.00
T2	240.00-220.00			3.00		20.00
T3	220.00-200.00			3.00		20.00
T4	200.00-180.00			3.00		20.00
T5	180.00-160.00			3.00		20.00
T6	160.00-140.00			3.00		20.00
T7	140.00-130.00			3.00		10.00
T8	130.00-120.00			3.00		10.00
T9	120.00-117.00			3.00		3.00
T10	117.00-114.67			3.00		2.33
T11	114.67-112.33			3.00		2.34
T12	112.33-110.00			3.00		2.33
T13	110.00-107.67			3.00		2.33
T14	107.67-105.33			3.00		2.34
T15	105.33-103.00			3.00		2.33
T16	103.00-100.00			3.00		3.00

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Tower	Tower	Assembly	Description	Section	Number of Sections	Section Length
T17	100.00-80.00			3.00	1	20.00
T18	80.00-60.00			3.00	1	20.00
T19	60.00-40.00			3.00	1	20.00
T20	40.00-20.00			3.00	1	20.00
T21	20.00-5.00			3.00	1	15.00
T22	5.00-0.00			3.00	1	5.00

Tower Section Geometry (cont'd)

Tower	Tower	Diagonal	Bracing	Has	Has	Has	Top Chord	Bottom Chord
Section	Elevation	Spacing	Type	K Brace	Horizontal	End Panels	Offset	Offset
T1	250.00-240.00	2.17	CX Brace	No	No	No	8.0000	8.0000
T2	240.00-220.00	2.33	CX Brace	No	No	No	8.0000	8.0000
T3	220.00-200.00	2.33	CX Brace	No	No	No	8.0000	8.0000
T4	200.00-180.00	2.33	CX Brace	No	No	No	8.0000	8.0000
T5	180.00-160.00	2.33	CX Brace	No	No	No	8.0000	8.0000
T6	160.00-140.00	2.33	CX Brace	No	No	No	8.0000	8.0000
T7	140.00-130.00	2.31	CX Brace	No	No	No	8.0000	1.0000
T8	130.00-120.00	2.31	CX Brace	No	No	No	1.0000	8.0000
T9	120.00-117.00	2.33	CX Brace	No	No	No	8.0000	0.0000
T10	117.00-114.67	2.33	CX Brace	No	No	No	0.0000	0.0000
T11	114.67-112.33	2.34	CX Brace	No	No	No	0.0000	0.0000
T12	112.33-110.00	2.33	CX Brace	No	No	No	0.0000	0.0000
T13	110.00-107.67	2.33	CX Brace	No	No	No	0.0000	0.0000
T14	107.67-105.33	2.34	CX Brace	No	No	No	0.0000	0.0000
T15	105.33-103.00	2.33	CX Brace	No	No	No	0.0000	0.0000
T16	103.00-100.00	2.33	CX Brace	No	No	No	0.0000	8.0000
T17	100.00-80.00	2.33	CX Brace	No	No	No	8.0000	8.0000
T18	80.00-60.00	2.33	CX Brace	No	No	No	8.0000	8.0000
T19	60.00-40.00	2.33	CX Brace	No	No	No	8.0000	8.0000
T20	40.00-20.00	2.33	CX Brace	No	No	No	8.0000	8.0000
T21	20.00-5.00	2.39	CX Brace	No	No	No	8.0000	0.0000
T22	5.00-0.00	2.32	CX Brace	No	No	No	0.0000	4.2500

Tower Section Geometry (cont'd)

Tower	Tower	Leg	Leg	Diagonal	Diagonal	Diagonal	Diagonal
Elevation	Leg	Size	Grade	Type	Size	Grade	Grade
T1 250.00-240.00	Solid Round	1.5 SR	A572-50	Solid Round	0.75 SR	A572-50	A572-50
T2 240.00-220.00	Solid Round	1.5 SR	A572-50	Solid Round	0.75 SR	A572-50	A572-50
T3 220.00-200.00	Solid Round	1.5 SR	A572-50	Solid Round	0.75 SR	A572-50	A572-50
T4 200.00-180.00	Solid Round	1.5 SR	A572-50	Solid Round	0.75 SR	A572-50	A572-50
T5 180.00-160.00	Solid Round	1.5 SR	A572-50	Solid Round	0.75 SR	A572-50	A572-50
T6 160.00-140.00	Solid Round	1.5 SR	A572-50	Solid Round	0.75 SR	A572-50	A572-50

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Tower	Leg	Leg	Leg	Diagonal	Diagonal	Diagonal
Elevation	Type	Size	Grade	Type	Size	Grade
ft						
T17 140.00-130.00	Solid Round	1.5 SR	A572-50 (50 ksi)	Solid Round	0.75 SR	A572-50 (50 ksi)
T8 130.00-120.00	Arbitrary Shape	1.5" SR w/ P2-XX Half Pipe	A572-50 (50 ksi)	Solid Round	0.75 SR	A572-50 (50 ksi)
T9 120.00-117.00	Arbitrary Shape	1.5" SR w/ P2-XX Half Pipe	A572-50 (50 ksi)	Solid Round	0.75 SR	A572-50 (50 ksi)
T10 117.00-114.67	Arbitrary Shape	1.5" SR w/ P2-XX Half Pipe	A572-50 (50 ksi)	Solid Round	0.75 SR	A572-50 (50 ksi)
T11 114.67-112.33	Arbitrary Shape	1.5" SR w/ P2-XX Half Pipe	A572-50 (50 ksi)	Solid Round	0.75 SR	A572-50 (50 ksi)
T12 112.33-110.00	Arbitrary Shape	1.5" SR w/ P2-XX Half Pipe	A572-50 (50 ksi)	Solid Round	0.75 SR	A572-50 (50 ksi)
T13 110.00-107.67	Arbitrary Shape	1.5" SR w/ P2-XX Half Pipe	A572-50 (50 ksi)	Solid Round	0.75 SR	A572-50 (50 ksi)
T14 107.67-105.33	Arbitrary Shape	1.5" SR w/ P2-XX Half Pipe	A572-50 (50 ksi)	Solid Round	0.75 SR	A572-50 (50 ksi)
T15 105.33-103.00	Arbitrary Shape	1.5" SR w/ P2-XX Half Pipe	A572-50 (50 ksi)	Solid Round	0.75 SR	A572-50 (50 ksi)
T16 103.00-100.00	Arbitrary Shape	1.5" SR w/ P2-XX Half Pipe	A572-50 (50 ksi)	Solid Round	0.75 SR	A572-50 (50 ksi)
T17 100.00-80.00	Arbitrary Shape	1.5" SR w/ P2-XX Half Pipe	A572-50 (50 ksi)	Solid Round	0.75 SR	A572-50 (50 ksi)
T18 80.00-60.00	Arbitrary Shape	1.5" SR w/ P2-XX Half Pipe	A572-50 (50 ksi)	Solid Round	0.5625 SR	A36 (36 ksi)
T19 60.00-40.00	Arbitrary Shape	1.5" SR w/ P2-XX Half Pipe	A572-50 (50 ksi)	Solid Round	0.5625 SR	A36 (36 ksi)
T20 40.00-20.00	Arbitrary Shape	1.5" SR w/ P2-XX Half Pipe	A572-50 (50 ksi)	Solid Round	0.5625 SR	A36 (36 ksi)
T21 20.00-5.00	Arbitrary Shape	1.5" SR w/ P2-XX Half Pipe	A572-50 (50 ksi)	Solid Round	0.5625 SR	A36 (36 ksi)
T22 5.00-0.00	Arbitrary Shape	1.5" SR w/ P2-XX Half Pipe	A572-50 (50 ksi)	Solid Round	0.5625 SR	A36 (36 ksi)

Tower Section Geometry (cont'd)

Tower	Top Chrt	Top Chrt	Top Chrt	Bottom Chrt	Bottom Chrt	Bottom Chrt
Elevation	Type	Size	Grade	Type	Size	Grade
ft						
T1 250.00-240.00	Solid Round	0.75 SR	A572-50 (50 ksi)	Solid Round	0.75 SR	A572-50 (50 ksi)
T2 240.00-220.00	Solid Round	0.75 SR	A572-50 (50 ksi)	Solid Round	0.75 SR	A572-50 (50 ksi)
T3 220.00-200.00	Solid Round	0.75 SR	A572-50 (50 ksi)	Solid Round	0.75 SR	A572-50 (50 ksi)
T4 200.00-180.00	Solid Round	0.75 SR	A572-50 (50 ksi)	Solid Round	0.75 SR	A572-50 (50 ksi)
T5 180.00-160.00	Solid Round	0.75 SR	A572-50 (50 ksi)	Solid Round	0.75 SR	A572-50 (50 ksi)
T6 160.00-140.00	Solid Round	0.75 SR	A572-50 (50 ksi)	Solid Round	0.75 SR	A572-50 (50 ksi)
T7 140.00-130.00	Solid Round	0.75 SR	A572-50 (50 ksi)	Solid Round	0.75 SR	A572-50 (50 ksi)
T8 130.00-120.00	Solid Round	0.75 SR	A572-50 (50 ksi)	Solid Round	0.75 SR	A572-50 (50 ksi)
T9 120.00-117.00	Solid Round	0.75 SR	A572-50 (50 ksi)	Solid Round	0.75 SR	A572-50 (50 ksi)

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Tower	Elevation	Top Girt	Type	Top Girt	Size	Top Girt	Grade	Bottom Girt	Type	Bottom Girt	Size	Bottom Girt	Grade
T13	110.00-107.67	Solid Round		0.75 SR	(50 ksi)	A572-50	(50 ksi)	Solid Round		0.75 SR	(50 ksi)	A572-50	(50 ksi)
T16	103.00-100.00	Solid Round		0.75 SR	(50 ksi)	A572-50	(50 ksi)	Solid Round		0.75 SR	(50 ksi)	A572-50	(50 ksi)
T17	100.00-80.00	Solid Round		0.75 SR	(50 ksi)	A572-50	(50 ksi)	Solid Round		0.75 SR	(50 ksi)	A572-50	(50 ksi)
T18	80.00-60.00	Solid Round		0.75 SR	(50 ksi)	A572-50	(50 ksi)	Solid Round		0.75 SR	(50 ksi)	A572-50	(50 ksi)
T19	60.00-40.00	Solid Round		0.75 SR	(50 ksi)	A572-50	(50 ksi)	Solid Round		0.75 SR	(50 ksi)	A572-50	(50 ksi)
T20	40.00-20.00	Solid Round		0.75 SR	(50 ksi)	A572-50	(50 ksi)	Solid Round		0.75 SR	(50 ksi)	A572-50	(50 ksi)
T21	20.00-5.00	Solid Round		0.75 SR	(50 ksi)	A572-50	(50 ksi)	Solid Round		0.75 SR	(50 ksi)	A572-50	(50 ksi)
T22	5.00-0.00	Solid Round		0.75 SR	(50 ksi)	A572-50	(50 ksi)	Solid Round		0.75 SR	(50 ksi)	A572-50	(50 ksi)

Tower Section Geometry (cont'd)

Tower	Elevation	No. of Mid Girts	Mid Girt	Type	Mid Girt	Size	Mid Girt	Grade	Horizontal	Type	Horizontal	Size	Horizontal	Grade
T1	250.00-240.00	None	Solid Round		A572-50	(50 ksi)	Solid Round		0.75 SR	(50 ksi)	A572-50	(50 ksi)	Solid Round	
T2	240.00-220.00	1	Solid Round		0.75 SR	(50 ksi)	A572-50	(50 ksi)	Solid Round		0.75 SR	(50 ksi)	A572-50	(50 ksi)
T3	220.00-200.00	1	Solid Round		0.75 SR	(50 ksi)	A572-50	(50 ksi)	Solid Round		0.75 SR	(50 ksi)	A572-50	(50 ksi)
T4	200.00-180.00	1	Solid Round		0.75 SR	(50 ksi)	A572-50	(50 ksi)	Solid Round		0.75 SR	(50 ksi)	A572-50	(50 ksi)
T5	180.00-160.00	1	Solid Round		0.75 SR	(50 ksi)	A572-50	(50 ksi)	Solid Round		0.75 SR	(50 ksi)	A572-50	(50 ksi)
T6	160.00-140.00	1	Solid Round		0.75 SR	(50 ksi)	A572-50	(50 ksi)	Solid Round		0.75 SR	(50 ksi)	A572-50	(50 ksi)
T13	110.00-107.67	None	Solid Round		A572-50	(50 ksi)	Solid Round		0.75 SR	(50 ksi)	A572-50	(50 ksi)	Solid Round	
T14	107.67-105.33	None	Solid Round		A572-50	(50 ksi)	Solid Round		0.75 SR	(50 ksi)	A572-50	(50 ksi)	Solid Round	
T15	105.33-103.00	None	Solid Round		A572-50	(50 ksi)	Solid Round		0.75 SR	(50 ksi)	A572-50	(50 ksi)	Solid Round	
T16	103.00-100.00	None	Solid Round		A572-50	(50 ksi)	Solid Round		0.75 SR	(50 ksi)	A572-50	(50 ksi)	Solid Round	
T17	100.00-80.00	1	Solid Round		0.75 SR	(50 ksi)	A572-50	(50 ksi)	Solid Round		0.75 SR	(50 ksi)	A572-50	(50 ksi)
T18	80.00-60.00	1	Solid Round		0.75 SR	(50 ksi)	A572-50	(50 ksi)	Solid Round		0.75 SR	(50 ksi)	A572-50	(50 ksi)
T19	60.00-40.00	1	Solid Round		0.75 SR	(50 ksi)	A572-50	(50 ksi)	Solid Round		0.75 SR	(50 ksi)	A572-50	(50 ksi)
T20	40.00-20.00	1	Solid Round		0.75 SR	(50 ksi)	A572-50	(50 ksi)	Solid Round		0.75 SR	(50 ksi)	A572-50	(50 ksi)
T21	20.00-5.00	None	Solid Round		A572-50	(50 ksi)	Solid Round		0.75 SR	(50 ksi)	A572-50	(50 ksi)	Solid Round	

Tower	Secondary	Secondary Horizontal	Secondary Horizontal	Inner Bracing	Inner Bracing Size	Inner Bracing Grade
Elevation	Horizontal Type	Size	Grade	Type		

T1 250.00-240.00	Solid Round	0.75 SR	A572-50	Solid Round	A572-50	(50 ksi)
T2 240.00-220.00	Solid Round	0.75 SR	A572-50	Solid Round	A572-50	(50 ksi)
T3 220.00-200.00	Solid Round	0.75 SR	A572-50	Solid Round	A572-50	(50 ksi)
T4 200.00-180.00	Solid Round	0.75 SR	A572-50	Solid Round	A572-50	(50 ksi)
T5 180.00-160.00	Solid Round	0.75 SR	A572-50	Solid Round	A572-50	(50 ksi)
T6 160.00-140.00	Solid Round	0.75 SR	A572-50	Solid Round	A572-50	(50 ksi)
T7 140.00-130.00	Solid Round	0.75 SR	A572-50	Solid Round	A572-50	(50 ksi)
T8 130.00-120.00	Solid Round	0.75 SR	A572-50	Solid Round	A572-50	(50 ksi)
T9 120.00-117.00	Solid Round	0.75 SR	A572-50	Solid Round	A572-50	(50 ksi)
T10	Solid Round	0.75 SR	A572-50	Solid Round	A572-50	(50 ksi)
117.00-114.67	Solid Round	0.75 SR	A572-50	Solid Round	A572-50	(50 ksi)
114.67-112.33	Solid Round	0.75 SR	A572-50	Solid Round	A572-50	(50 ksi)
T12	Solid Round	0.75 SR	A572-50	Solid Round	A572-50	(50 ksi)
112.33-110.00	Solid Round	0.75 SR	A572-50	Solid Round	A572-50	(50 ksi)
T13	Solid Round	0.75 SR	A572-50	Solid Round	A572-50	(50 ksi)
110.00-107.67	Solid Round	0.75 SR	A572-50	Solid Round	A572-50	(50 ksi)
T14	Solid Round	0.75 SR	A572-50	Solid Round	A572-50	(50 ksi)
107.67-105.33	Solid Round	0.75 SR	A572-50	Solid Round	A572-50	(50 ksi)
T15	Solid Round	0.75 SR	A572-50	Solid Round	A572-50	(50 ksi)
105.33-103.00	Solid Round	0.75 SR	A572-50	Solid Round	A572-50	(50 ksi)
T16	Solid Round	0.75 SR	A572-50	Solid Round	A572-50	(50 ksi)
103.00-100.00	Solid Round	0.75 SR	A572-50	Solid Round	A572-50	(50 ksi)
T17 100.00-80.00	Solid Round	0.75 SR	A572-50	Solid Round	A572-50	(50 ksi)
T18 80.00-60.00	Solid Round	0.75 SR	A572-50	Solid Round	A572-50	(50 ksi)
T19 60.00-40.00	Solid Round	0.75 SR	A572-50	Solid Round	A572-50	(50 ksi)
T20 40.00-20.00	Solid Round	0.75 SR	A572-50	Solid Round	A572-50	(50 ksi)
T21 20.00-5.00	Solid Round	0.75 SR	A572-50	Solid Round	A572-50	(50 ksi)

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Tower Elevation ft	Leg	Diagonal	Top Girt	Bottom Girt	Mid Girt	Long Horizontal	Short Horizontal
	Net Width Deduct in	Net Width Deduct in	Net Width Deduct in	Net Width Deduct in	Net Width Deduct in	Net Width Deduct in	Net Width Deduct in
T1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
250.00-240.00	1	1	1	1	1	1	1
T2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
240.00-220.00	1	1	1	1	1	1	1
T3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
220.00-200.00	1	1	1	1	1	1	1
T4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
200.00-180.00	1	1	1	1	1	1	1
T5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
180.00-160.00	1	1	1	1	1	1	1
T6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
160.00-140.00	1	1	1	1	1	1	1
T7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
140.00-130.00	1	1	1	1	1	1	1
T8	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
130.00-120.00	1	1	1	1	1	1	1
T9	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
120.00-117.00	1	1	1	1	1	1	1
T10	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
117.00-114.67	1	1	1	1	1	1	1
T11	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
114.67-112.33	1	1	1	1	1	1	1
T12	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
112.33-110.00	1	1	1	1	1	1	1
T13	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
110.00-107.67	1	1	1	1	1	1	1
T14	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
107.67-105.33	1	1	1	1	1	1	1
T15	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
105.33-103.00	1	1	1	1	1	1	1
T16	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
103.00-100.00	1	1	1	1	1	1	1
T17	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
100.00-80.00	1	1	1	1	1	1	1
T18	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
80.00-60.00	1	1	1	1	1	1	1
T19	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
60.00-40.00	1	1	1	1	1	1	1
T20	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
40.00-20.00	1	1	1	1	1	1	1
T21	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
20.00-5.00	1	1	1	1	1	1	1
T22	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
5.00-0.00	1	1	1	1	1	1	1

Tower Elevation ft	Redundant Horizontal	Redundant Diagonal	Redundant Sub-Diagonal	Redundant Sub-Horizontal	Redundant Vertical	Redundant Hip	Redundant Hip
	Net Width Deduct in	Net Width Deduct in	Net Width Deduct in	Net Width Deduct in	Net Width Deduct in	Net Width Deduct in	Net Width Deduct in
T1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
250.00-240.00	0.75 (1)	0.0000	0.75	0.0000	0.75	0.0000	0.75 (1)
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.75 (2)	0.0000	0.75	0.0000	0.75	0.0000	0.75 (2)

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0.0000	0.75 (2)	0.0000	0.75	(2)				0.0000	0.75 (2)	0.0000	0.75 (2)
0.0000	0.75 (3)	0.0000	0.75	(3)				0.0000	0.75 (3)	0.0000	0.75 (3)
0.0000	0.75 (4)	0.0000	0.75	(4)				0.0000	0.75 (4)	0.0000	0.75 (4)

Tower Section Geometry (cont'd)

Tower Elevation	Leg Connection Type	Leg Bolt Size	Diagonal Bolt Size	Top Chir Bolt Size	Bottom Chir Bolt Size	Mid Chir Bolt Size	Long Horizontal Bolt Size	Short Horizontal Bolt Size
T1	Sleeve DS	0.5625	0.5000	0.5000	0.5000	0.6250	0.6250	0.6250
250.00-240.00	Sleeve DS	A325X	A325N	A325X	A325X	A325N	A325N	A325N
T2	Sleeve DS	0.5625	0.5000	0.5000	0.5000	0.6250	0.6250	0.6250
240.00-220.00	Sleeve DS	A325X	A325N	A325X	A325X	A325N	A325N	A325N
T3	Sleeve DS	0.5625	0.5000	0.5000	0.5000	0.6250	0.6250	0.6250
220.00-200.00	Sleeve DS	A325X	A325N	A325X	A325X	A325N	A325N	A325N
T4	Sleeve DS	0.5625	0.5000	0.5000	0.5000	0.6250	0.6250	0.6250
200.00-180.00	Sleeve DS	A325X	A325N	A325X	A325X	A325N	A325N	A325N
T5	Sleeve DS	0.5625	0.6250	0.5000	0.5000	0.6250	0.6250	0.6250
180.00-160.00	Sleeve DS	A325X	A325N	A325X	A325X	A325N	A325N	A325N
T6	Sleeve DS	0.5625	0.5000	0.5000	0.5000	0.6250	0.6250	0.6250
160.00-140.00	Sleeve DS	A325X	A325N	A325X	A325X	A325N	A325N	A325N
T7	Sleeve DS	0.5625	0.5000	0.5000	0.5000	0.6250	0.6250	0.6250
140.00-130.00	Sleeve DS	A325X	A325N	A325X	A325X	A325N	A325N	A325N
T8	Sleeve DS	0.5625	0.5000	0.5000	0.5000	0.6250	0.6250	0.6250
130.00-120.00	Sleeve DS	A325X	A325N	A325X	A325X	A325N	A325N	A325N
T9	Sleeve DS	0.5625	0.5000	0.5000	0.5000	0.6250	0.6250	0.6250
120.00-117.00	Sleeve DS	A325X	A325N	A325X	A325X	A325N	A325N	A325N
T10	Sleeve DS	0.5625	0.5000	0.5000	0.5000	0.6250	0.6250	0.6250
117.00-114.67	Sleeve DS	A325X	A325N	A325X	A325X	A325N	A325N	A325N
T11	Sleeve DS	0.5625	0.5000	0.5000	0.5000	0.6250	0.6250	0.6250
114.67-112.33	Sleeve DS	A325X	A325N	A325X	A325X	A325N	A325N	A325N
T12	Sleeve DS	0.5625	0.5000	0.5000	0.5000	0.6250	0.6250	0.6250
112.33-110.00	Sleeve DS	A325X	A325N	A325X	A325X	A325N	A325N	A325N
T13	Sleeve DS	0.5625	0.5000	0.5000	0.5000	0.6250	0.6250	0.6250
110.00-107.67	Sleeve DS	A325X	A325N	A325X	A325X	A325N	A325N	A325N
T14	Sleeve DS	0.5625	0.5000	0.5000	0.5000	0.6250	0.6250	0.6250
107.67-105.33	Sleeve DS	A325X	A325N	A325X	A325X	A325N	A325N	A325N
T15	Sleeve DS	0.5625	0.5000	0.5000	0.5000	0.6250	0.6250	0.6250
105.33-103.00	Sleeve DS	A325X	A325N	A325X	A325X	A325N	A325N	A325N
T16	Sleeve DS	0.5625	0.5000	0.5000	0.5000	0.6250	0.6250	0.6250
103.00-100.00	Sleeve DS	A325X	A325N	A325X	A325X	A325N	A325N	A325N
T17	Sleeve DS	0.5625	0.5000	0.5000	0.5000	0.6250	0.6250	0.6250
100.00-80.00	Sleeve DS	A325X	A325N	A325X	A325X	A325N	A325N	A325N
T18	Sleeve DS	0.5625	0.5000	0.5000	0.5000	0.6250	0.6250	0.6250
80.00-60.00	Sleeve DS	A325X	A325N	A325X	A325X	A325N	A325N	A325N
T19	Sleeve DS	0.5625	0.5000	0.5000	0.5000	0.6250	0.6250	0.6250
60.00-40.00	Sleeve DS	A325X	A325N	A325X	A325X	A325N	A325N	A325N
T20	Sleeve DS	0.5625	0.5000	0.5000	0.5000	0.6250	0.6250	0.6250
40.00-20.00	Sleeve DS	A325X	A325N	A325X	A325X	A325N	A325N	A325N

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Tower	Leg	Leg Connection	Elevation	ft	Type	Bolt Size	No.	Diagonal	Top Ctr	Bottom Ctr	Mid Ctr	Long Horizontal	Short Horizontal
T21	20.00-5.00	Sleeve DS	0.5625	0	A325X	A325N	0	0.5000	0	0.5000	0	0.6250	0
T22	5.00-0.00	Sleeve DS	0.5625	0	A325X	A325N	0	0.5000	0	0.5000	0	0.6250	0

Guy Data

Guy	Elevation	Guy	Grade	Guy	Size	Initial	%	Guy	Modulus	Guy	Weight	L _h	Anchor	Radius	Anchor	Adj.	Efficiency	End
237	ft	EHS	A	9/16	4200.00	12%	21000	0.671	294.73	ft	150.00	0.0000	-19.00	100%				
			B	9/16	4200.00	12%	21000	0.671	286.11	ft	150.00	0.0000	-9.00	100%				
177		EHS	A	7/16	2288.00	11%	23000	0.399	244.59	ft	150.00	0.0000	-19.00	100%				
			B	7/16	2288.00	11%	23000	0.399	236.66	ft	150.00	0.0000	-9.00	100%				
117		EHS	A	3/8	1386.00	9%	21000	0.273	199.85	ft	150.00	0.0000	-19.00	100%				
			B	3/8	1386.00	9%	21000	0.273	193.19	ft	150.00	0.0000	-9.00	100%				
59.3333		EHS	A	3/8	1848.00	12%	21000	0.273	167.50	ft	150.00	0.0000	-19.00	100%				
			B	3/8	1848.00	12%	21000	0.273	163.08	ft	150.00	0.0000	-9.00	100%				
			C	3/8	1386.00	9%	21000	0.273	191.26	ft	150.00	0.0000	-6.00	100%				
			B	3/8	1386.00	9%	21000	0.273	193.19	ft	150.00	0.0000	-9.00	100%				
			C	3/8	1848.00	12%	21000	0.273	161.85	ft	150.00	0.0000	-6.00	100%				

Guy Data(cont'd)

Guy	Elevation	Mount	Type	Torque-Arm	Spread	Leg Angle	Torque-Arm	Style	Torque-Arm	Grade	Torque-Arm	Type	Torque-Arm	Size
237	ft	Torque Arm	Wing	15.0000	12.00	15.0000	12.00	15.0000	12.00	15.0000	12.00	15.0000	12.00	15.0000
177		Torque Arm	Wing	15.0000	12.00	15.0000	12.00	15.0000	12.00	15.0000	12.00	15.0000	12.00	15.0000
117		Torque Arm	Wing	15.0000	12.00	15.0000	12.00	15.0000	12.00	15.0000	12.00	15.0000	12.00	15.0000
59.3333		Corner												

Guy Data (cont'd)

Guy	Elevation	Diagonal	Grade	Diagonal	Type	Upper Diagonal	Lower Diagonal	Is	Strap	No	A572-50	Arbitrary	Shape	(2) 7/8" SR
237.00	ft	Diagonal	Grade	Diagonal	Type	Upper Diagonal	Lower Diagonal	Is	Strap	No	A572-50	Arbitrary	Shape	(2) 7/8" SR

Gry	Diagonal	Diagonal	Upper Diagonal	Lower Diagonal	Is	Pull-Off	Pull-Off	Pull-Off	Pull-Off	Pull-Off	Elevation
	Grade	Type	Size	Size	Strap.	Grade	Type	Type	Type	Type	ft
177.00	A572-50	Solid Round	No	A572-50	Arbitrary	(2) 7/8" SR					
117.00	A572-50 (50 ksi)	Solid Round	No	A572-50 (50 ksi)	Arbitrary	(2) 7/8" SR					
59.33	A572-50 (50 ksi)	Solid Round	No	A572-50 (50 ksi)	Solid Round	0.75 SR					

Guy Data (cont'd)

[illegible]

Guy Data (cont'd)

Guy	Elevation f	Calc K Single f Angles	Calc K Solid f Rounds	Torque Arm K_T	Pull Off K_P	Diagonal K_D
237	No	No	No	1	0.7636	1
177	No	No	No	1	0.7636	1
117	No	No	No	1	0.7636	1
59 3333	No	No	No	1	0.7636	1

Guy Data (cont'd)

Guy Elevation ft	Torque-Arm				Pull Off				Diagonal			
	Bolt Size	Number	Net Width in	Deduct in	Bolt Size	Number	Net Width in	Deduct in	Bolt Size	Number	Net Width in	Deduct in
237	0.0000	0	0.0000	1	0.6250	0	0.0000	0.75	0.6250	0	0.0000	0.75
177	0.0000	0	0.0000	1	0.6250	0	0.0000	0.75	0.6250	0	0.0000	0.75
117	0.0000	0	0.0000	1	0.6250	0	0.0000	0.75	0.6250	0	0.0000	0.75
59.3333	0.6250	0	0.0000	0.75	0.6250	0	0.0000	0.75	0.6250	0	0.0000	0.75

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				Client	Array Inc.	Designed by utoluganti

Guy Pressures

Guy	Guy Location	z	q:	q:	Ice Thickness
ft		ft	psf	psf	in
237	A	109.00	26	5	1.6904
	B	114.00	27	5	1.6980
	C	115.50	27	5	1.7002
177	A	79.00	24	5	1.6368
	B	84.00	25	5	1.6469
	C	85.50	25	5	1.6498
117	A	49.00	21	4	1.5605
	B	54.00	22	4	1.5757
	C	55.50	22	4	1.5800
59.3333	A	20.17	18	4	1.4279
	B	25.17	18	4	1.4599
	C	26.67	18	4	1.4684

Feed Line/Linear Appurtenances - Entered As Round Or Flat

Description	Face Allow	Exclude	Component	Placement	Face Offset	Lateral Offset	#	Per Spacing	Clear Width	Width or Diameter	in	Perimeter	Weight
Face or Leg	Shield	From Torque Calculation	Type	ft	in	(Frac FW)		Row	in	in	in	in	plf
Safety Line	A	No	Ar (CAa)	250.00	-	0.0000	0.5	1	0.3750	0.3750			0.22
3/8	B	No	Ar (CAa)	250.00	-	0.0000	0.25	1	0.5000	1.5000			2.00
Feedline	A	No	Ar (CAa)	218.50	-	0.0000	-0.25	14	0.5000	1.9800			0.72
Ladder (Ar)	A	No	Ar (CAa)	0.00	-	0.0000							
AVA7-50	A	No	Ar (CAa)	198.00	-	0.0000	-0.25	2	0.7500	2.3500			1.22
(2-1/4 FOAM)	B	No	Ar (CAa)	198.00	-	0.0000	-0.25	2	0.7500	0.7500			0.33
3/4"	B	No	Ar (CAa)	198.00	-	0.0000	-0.25	1	0.4400	0.4400			0.08
LDF2-50A	C	No	Ar (CAa)	185.00	-	0.0000	0.35	3	0.5000	1.9960			2.30
6 X 24 Hybrid	B	No	Ar (CAa)	101.00	-	0.0000	0.1	15	0.6300	0.6300			0.15
LDF4-50A	B	No	Ar (CAa)	104.00	-	0.0000	0.11	14	0.6300	0.6300			0.15
(1/2 FOAM)	B	No	Ar (CAa)	101.00	-	0.0000	0.12	13	0.6300	0.6300			0.15
LDF4-50A	B	No	Ar (CAa)	111.00	-	0.0000	0.13	11	0.6300	0.6300			0.15
(1/2 FOAM)	B	No	Ar (CAa)	130.00	-	0.0000	0.14	10	0.6300	0.6300			0.15
LDF4-50A	B	No	Ar (CAa)	133.50	-	0.0000	0.145	9	0.6300	0.6300			0.15
(1/2 FOAM)	B	No	Ar (CAa)	140.00	-	0.0000	0.15	8	0.6300	0.6300			0.15
LDF4-50A	B	No	Ar (CAa)	144.00	-	0.0000	0.16	7	0.6300	0.6300			0.15

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Description	Face	Allow	Exclude	Component	Placement	Face	Offset	in	(Frac FW)	#	Clear	Per	Row	in	in	in	Weight
(1/2 FOAM)	LDFA-50A	B	No	Ar (CAa)	152.00 -	0.0000	0.17	5	5	5	0.6300	0.6300	5	5	0.6300	0.6300	0.15
(1/2 FOAM)	LDFA-50A	B	No	Ar (CAa)	144.00	0.0000	0.175	4	4	4	0.6300	0.6300	4	4	0.6300	0.6300	0.15
(1/2 FOAM)	LDFA-50A	B	No	Ar (CAa)	161.00 -	0.0000	0.18	3	3	3	0.6300	0.6300	3	3	0.6300	0.6300	0.15
(1/2 FOAM)	LDFA-50A	B	No	Ar (CAa)	161.00	0.0000	0.19	2	2	2	0.6300	0.6300	2	2	0.6300	0.6300	0.15
(1/2 FOAM)	LDFA-50A	B	No	Ar (CAa)	170.00 -	0.0000	0.2	1	1	1	0.6300	0.6300	1	1	0.6300	0.6300	0.15
(1/2 FOAM)	LDFA-50A	B	No	Ar (CAa)	171.00 -	0.0000	0.25	1	1	1	0.5000	1.5742	1	1	0.5000	1.5742	0.51
EW63		B	No	Ar (CAa)	215.00 -	0.0000											

T-Bracket		B	No	Ar (CAa)	245.00 -	-3.0000	-0.35	1	1	1	0.6670	0.6670	1	1	0.6670	0.6670	3.00
LDFA-50A		B	No	Ar (CAa)	245.00 -	-3.0000	-0.35	6	6	6	0.5000	1.9800	3	3	0.5000	1.9800	0.82
(1-5/8 FOAM)	LDFA-50A	B	No	Ar (CAa)	230.00 -	0.0000	-0.4	2	2	2	0.5000	1.5500	2	2	0.5000	1.5500	0.66
(1-1/4 FOAM)	LDFA-50A	C	No	Ar (CAa)	0.00												

Feed Line/Linear Appurtenances Section Areas

Tower	Section	Tower	Elevation	Face	Ar	Ar	In Face	C, ft	Out Face	C, ft	Weight
T1	250.00-240.00	A	0.000	0.000	0.000	0.375	0.000	0.000	0.000	2.20	59.60
		B	0.000	0.000	0.000	8.996	0.000	0.000	0.000	0.00	0.00
		C	0.000	0.000	0.000	0.750	0.000	0.000	0.000	4.40	198.40
T2	240.00-220.00	A	0.000	0.000	0.000	0.750	0.000	0.000	0.000	13.20	213.08
		B	0.000	0.000	0.000	30.983	0.000	0.000	0.000	206.05	230.00
		C	0.000	0.000	0.000	3.100	0.000	0.000	0.000	26.40	265.84
T3	220.00-200.00	A	0.000	0.000	0.000	61.356	0.000	0.000	0.000	230.00	265.84
		B	0.000	0.000	0.000	33.345	0.000	0.000	0.000	230.00	265.84
		C	0.000	0.000	0.000	6.200	0.000	0.000	0.000	230.00	265.84
T4	200.00-180.00	A	0.000	0.000	0.000	66.270	0.000	0.000	0.000	230.00	265.84
		B	0.000	0.000	0.000	46.084	0.000	0.000	0.000	230.00	265.84
		C	0.000	0.000	0.000	9.194	0.000	0.000	0.000	230.00	265.84
T5	180.00-160.00	A	0.000	0.000	0.000	66.270	0.000	0.000	0.000	230.00	265.84
		B	0.000	0.000	0.000	49.043	0.000	0.000	0.000	230.00	265.84
		C	0.000	0.000	0.000	18.176	0.000	0.000	0.000	230.00	265.84
T6	160.00-140.00	A	0.000	0.000	0.000	66.270	0.000	0.000	0.000	230.00	265.84
		B	0.000	0.000	0.000	53.712	0.000	0.000	0.000	230.00	265.84
		C	0.000	0.000	0.000	18.176	0.000	0.000	0.000	230.00	265.84
T7	140.00-130.00	A	0.000	0.000	0.000	33.135	0.000	0.000	0.000	115.00	115.00
		B	0.000	0.000	0.000	29.344	0.000	0.000	0.000	115.00	115.00
		C	0.000	0.000	0.000	9.088	0.000	0.000	0.000	115.00	115.00
T8	130.00-120.00	A	0.000	0.000	0.000	33.135	0.000	0.000	0.000	115.00	115.00
		B	0.000	0.000	0.000	30.636	0.000	0.000	0.000	115.00	115.00
		C	0.000	0.000	0.000	9.088	0.000	0.000	0.000	115.00	115.00
T9	120.00-117.00	A	0.000	0.000	0.000	9.941	0.000	0.000	0.000	115.00	115.00
		B	0.000	0.000	0.000	9.191	0.000	0.000	0.000	115.00	115.00
		C	0.000	0.000	0.000	2.726	0.000	0.000	0.000	115.00	115.00
T10	117.00-114.67	A	0.000	0.000	0.000	7.720	0.000	0.000	0.000	115.00	115.00
		B	0.000	0.000	0.000	7.138	0.000	0.000	0.000	115.00	115.00
		C	0.000	0.000	0.000	2.118	0.000	0.000	0.000	115.00	115.00

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Tower Section	Tower Elevation	Face or Leg	Ice Thickness	A _R	C ₁₄₁	In Face	C ₁₄₁	Out Face	Weight
T11	114.67-112.33	A	0.000	0.000	7.754	0.000	0.000	26.91	
		B	0.000	0.000	7.169	0.000	0.000	35.71	
		C	0.000	0.000	2.127	0.000	0.000	19.23	
T12	112.33-110.00	A	0.000	0.000	7.720	0.000	0.000	26.80	
		B	0.000	0.000	7.264	0.000	0.000	35.86	
		C	0.000	0.000	2.118	0.000	0.000	19.15	
T13	110.00-107.67	A	0.000	0.000	7.720	0.000	0.000	26.80	
		B	0.000	0.000	7.432	0.000	0.000	36.25	
		C	0.000	0.000	2.118	0.000	0.000	19.15	
T14	107.67-105.33	A	0.000	0.000	7.754	0.000	0.000	26.91	
		B	0.000	0.000	7.464	0.000	0.000	36.41	
		C	0.000	0.000	2.127	0.000	0.000	19.23	
T15	105.33-103.00	A	0.000	0.000	7.720	0.000	0.000	26.80	
		B	0.000	0.000	7.495	0.000	0.000	36.40	
		C	0.000	0.000	2.118	0.000	0.000	19.15	
T16	103.00-100.00	A	0.000	0.000	9.941	0.000	0.000	34.50	
		B	0.000	0.000	9.821	0.000	0.000	47.28	
		C	0.000	0.000	2.726	0.000	0.000	24.66	
T17	100.00-80.00	A	0.000	0.000	66.270	0.000	0.000	230.00	
		B	0.000	0.000	66.312	0.000	0.000	317.20	
		C	0.000	0.000	18.176	0.000	0.000	164.40	
T18	80.00-60.00	A	0.000	0.000	66.270	0.000	0.000	230.00	
		B	0.000	0.000	66.312	0.000	0.000	317.20	
		C	0.000	0.000	18.176	0.000	0.000	164.40	
T19	60.00-40.00	A	0.000	0.000	66.270	0.000	0.000	230.00	
		B	0.000	0.000	66.312	0.000	0.000	317.20	
		C	0.000	0.000	18.176	0.000	0.000	164.40	
T20	40.00-20.00	A	0.000	0.000	66.270	0.000	0.000	230.00	
		B	0.000	0.000	66.312	0.000	0.000	317.20	
		C	0.000	0.000	18.176	0.000	0.000	164.40	
T21	20.00-5.00	A	0.000	0.000	49.703	0.000	0.000	172.50	
		B	0.000	0.000	49.734	0.000	0.000	237.90	
		C	0.000	0.000	13.632	0.000	0.000	123.30	
T22	5.00-0.00	A	0.000	0.000	16.567	0.000	0.000	57.50	
		B	0.000	0.000	16.578	0.000	0.000	79.30	
		C	0.000	0.000	4.544	0.000	0.000	41.10	

Feed Line/Linear Appurtenances Section Areas - With Ice

Tower Section	Tower Elevation	Face or Leg	Ice Thickness	A _R	C ₁₄₁	In Face	C ₁₄₁	Out Face	Weight
T1	250.00-240.00	A	1.833	0.000	4.041	0.000	0.000	51.65	
		B	0.000	0.000	16.905	0.000	0.000	298.48	
		C	0.000	0.000	0.000	0.000	0.000	0.00	
T2	240.00-220.00	A	1.821	0.000	8.036	0.000	0.000	102.15	
		B	0.000	0.000	55.116	0.000	0.000	998.83	
		C	0.000	0.000	11.140	0.000	0.000	122.28	
T3	220.00-200.00	A	1.805	0.000	128.154	0.000	0.000	1824.89	
		B	0.000	0.000	62.645	0.000	0.000	1109.34	
		C	0.000	0.000	22.165	0.000	0.000	241.96	
T4	200.00-180.00	A	1.787	0.000	137.611	0.000	0.000	1947.18	
		B	0.000	0.000	112.261	0.000	0.000	1674.38	
		C	0.000	0.000	29.503	0.000	0.000	356.82	
T5	180.00-160.00	A	1.767	0.000	137.296	0.000	0.000	1927.96	
		B	0.000	0.000	126.249	0.000	0.000	1802.45	
		C	0.000	0.000	51.620	0.000	0.000	702.58	
T6	160.00-140.00	A	1.745	0.000	136.945	0.000	0.000	1906.66	

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Tower	Section	Tower Elevation	Face or Leg	Ice Thickness	Ar	Ar	C _h	In Face	C _h	Out Face	Weight
T7		140.00-130.00	A	1.727	0.000	0.000	51.318	141.129	0.000	0.000	1957.49
			B		0.000	0.000	76.007		0.000	0.000	
			C		0.000	0.000	25.534		0.000	0.000	
T8		130.00-120.00	A	1.714	0.000	0.000	68.221		0.000	0.000	938.11
			B		0.000	0.000	78.839		0.000	0.000	1080.29
			C		0.000	0.000	25.443		0.000	0.000	
T9		120.00-117.00	A	1.705	0.000	0.000	20.445		0.000	0.000	280.12
			B		0.000	0.000	23.593		0.000	0.000	341.49
			C		0.000	0.000	5.907		0.000	0.000	
T10		117.00-114.67	A	1.701	0.000	0.000	15.871		0.000	0.000	217.12
			B		0.000	0.000	18.304		0.000	0.000	249.67
			C		0.000	0.000	7.614		0.000	0.000	101.95
T11		114.67-112.33	A	1.697	0.000	0.000	15.933		0.000	0.000	217.67
			B		0.000	0.000	18.366		0.000	0.000	250.20
			C		0.000	0.000	5.927		0.000	0.000	79.21
T12		112.33-110.00	A	1.694	0.000	0.000	15.858		0.000	0.000	216.34
			B		0.000	0.000	18.577		0.000	0.000	252.58
			C		0.000	0.000	5.896		0.000	0.000	78.72
T13		110.00-107.67	A	1.690	0.000	0.000	15.852		0.000	0.000	215.94
			B		0.000	0.000	18.968		0.000	0.000	257.31
			C		0.000	0.000	5.891		0.000	0.000	78.57
T14		107.67-105.33	A	1.686	0.000	0.000	15.913		0.000	0.000	216.46
			B		0.000	0.000	19.031		0.000	0.000	257.83
			C		0.000	0.000	5.910		0.000	0.000	78.75
T15		105.33-103.00	A	1.683	0.000	0.000	15.838		0.000	0.000	215.12
			B		0.000	0.000	19.085		0.000	0.000	258.12
			C		0.000	0.000	5.879		0.000	0.000	78.26
T16		103.00-100.00	A	1.678	0.000	0.000	20.382		0.000	0.000	276.35
			B		0.000	0.000	24.964		0.000	0.000	336.81
			C		0.000	0.000	7.560		0.000	0.000	100.53
T17		100.00-80.00	A	1.658	0.000	0.000	135.561		0.000	0.000	1823.13
			B		0.000	0.000	167.633		0.000	0.000	2243.65
			C		0.000	0.000	50.127		0.000	0.000	662.99
T18		80.00-60.00	A	1.617	0.000	0.000	134.907		0.000	0.000	1783.96
			B		0.000	0.000	165.874		0.000	0.000	2186.30
			C		0.000	0.000	49.563		0.000	0.000	648.33
T19		60.00-40.00	A	1.564	0.000	0.000	134.058		0.000	0.000	1733.40
			B		0.000	0.000	163.589		0.000	0.000	2112.78
			C		0.000	0.000	48.831		0.000	0.000	629.51
T20		40.00-20.00	A	1.486	0.000	0.000	132.825		0.000	0.000	1660.58
			B		0.000	0.000	160.265		0.000	0.000	2007.89
			C		0.000	0.000	47.766		0.000	0.000	602.63
T21		20.00-5.00	A	1.361	0.000	0.000	98.145		0.000	0.000	1159.47
			B		0.000	0.000	116.218		0.000	0.000	1383.97
			C		0.000	0.000	34.550		0.000	0.000	420.65
T22		5.00-0.00	A	1.159	0.000	0.000	31.922		0.000	0.000	341.14
			B		0.000	0.000	36.587		0.000	0.000	398.68
			C		0.000	0.000	10.829		0.000	0.000	124.06

Feed Line Center of Pressure

Section	Elevation	CP _x	CP _y	CP _z	CP _x	CP _y	CP _z
T1	250.00-240.00	in	0.5303	-3.4275	in	0.5695	-1.5438

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Section	Elevation <i>ft</i>	CP_x <i>in</i>	CP_z <i>in</i>	CP_y <i>Ice</i> <i>in</i>	CP_z <i>Ice</i> <i>in</i>
T2	240.00-220.00	1.3622	-4.8429	1.0286	-2.1319
T3	220.00-200.00	-3.4004	-0.7780	-0.3917	-0.5944
T4	200.00-180.00	-2.7205	-1.3703	-0.1073	-1.2795
T5	180.00-160.00	-3.2215	-1.0941	-0.4422	-1.0835
T6	160.00-140.00	-2.7780	-1.0680	-0.2472	-1.0798
T7	140.00-130.00	-2.4141	-1.0945	-0.1936	-1.1623
T8	130.00-120.00	-2.1254	-1.0867	-0.1382	-1.0253
T9	120.00-117.00	-2.1305	-1.0887	-0.1548	-1.1122
T10	117.00-114.67	-2.1365	-1.0911	-0.1573	-1.1189
T11	114.67-112.33	-2.1370	-1.0913	-0.1595	-1.1249
T12	112.33-110.00	-2.0687	-1.1062	-0.1459	-1.1336
T13	110.00-107.67	-1.9568	-1.1158	-0.1182	-1.0713
T14	107.67-105.33	-1.9574	-1.1161	-0.1437	-1.2604
T15	105.33-103.00	-1.9285	-1.1319	-0.1391	-1.2712
T16	103.00-100.00	-1.8752	-1.1696	-0.1102	-1.1365
T17	100.00-80.00	-1.8346	-1.1979	-0.1281	-1.3260
T18	80.00-60.00	-1.8600	-1.2107	-0.1505	-1.3745
T19	60.00-40.00	-1.8600	-1.2107	-0.1759	-1.3919
T20	40.00-20.00	-1.8600	-1.2107	-0.2159	-1.4142
T21	20.00-5.00	-1.8645	-1.2130	-0.2939	-1.4695
T22	5.00-0.00	-0.7324	-2.6390	0.2547	-1.7217

Shielding Factor Ka

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
T1	1	Safety Line 3/8	240.00 - 250.00	0.6000	0.3830
T1	2	Feedline Ladder (A1)	240.00 - 250.00	0.6000	0.3830
T1	25	T-Bracket	240.00 - 245.00	0.6000	0.3830
T1	26	LDF7-50A (1-5/8 FOAM)	240.00 - 245.00	0.6000	0.3830
T2	1	Safety Line 3/8	220.00 - 240.00	0.6000	0.3924
T2	2	Feedline Ladder (A1)	220.00 - 240.00	0.6000	0.3924
T2	25	T-Bracket	220.00 - 240.00	0.6000	0.3924
T2	26	LDF7-50A (1-5/8 FOAM)	220.00 - 240.00	0.6000	0.3924
T2	27	LDF6-50A (1-1/4 FOAM)	220.00 - 230.00	0.6000	0.3924
T3	1	Safety Line 3/8	200.00 - 220.00	0.6000	0.2747
T3	2	Feedline Ladder (A1)	200.00 - 220.00	0.6000	0.2747
T3	4	AVA7-50 (1-5/8 LOW DENS. FOAM)	200.00 - 218.50	0.6000	0.2747
T3	5	LDF4-50A (1/2 FOAM)	200.00 - 218.50	0.6000	0.2747
T3	23	EW63	200.00 - 215.00	0.6000	0.2747
T3	25	T-Bracket	200.00 -	0.6000	0.2747

inxTower

POD Group

1033 E Turkeyfoot Lake Rd, Suite 206

Green OH- 44312

Phone: 330-961-7440

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Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
T3	26	LDF7-50A (1-5/8 FOAM)	220.00 - 220.00	0.6000	0.2747
T3	27	LDF6-50A (1-1/4 FOAM)	200.00 - 220.00	0.6000	0.2747
T4	1	Safety Line 3/8	180.00 - 200.00	0.6000	0.2797
T4	2	Feedline Ladder (AI)	180.00 - 200.00	0.6000	0.2797
T4	4	AVAT-50 (1-5/8 LOW DENSIL FOAM)	180.00 - 200.00	0.6000	0.2797
T4	5	LDF4-50A (1/2 FOAM)	180.00 - 200.00	0.6000	0.2797
T4	6	LDF12-50A (2-1/4 FOAM)	180.00 - 198.00	0.6000	0.2797
T4	7	3/4"	180.00 - 198.00	0.6000	0.2797
T4	8	LDF2-50A (3/8 FOAM)	180.00 - 198.00	0.6000	0.2797
T4	9	6 X 24 Hybrid	180.00 - 185.00	0.6000	0.2797
T4	23	EW63	180.00 - 200.00	0.6000	0.2797
T4	25	T-Bracket	180.00 - 200.00	0.6000	0.2797
T4	26	LDF7-50A (1-5/8 FOAM)	180.00 - 200.00	0.6000	0.2797
T4	27	LDF6-50A (1-1/4 FOAM)	180.00 - 200.00	0.6000	0.2797
T5	1	Safety Line 3/8	160.00 - 180.00	0.6000	0.2849
T5	2	Feedline Ladder (AI)	160.00 - 180.00	0.6000	0.2849
T5	4	AVAT-50 (1-5/8 LOW DENSIL FOAM)	160.00 - 180.00	0.6000	0.2849
T5	5	LDF4-50A (1/2 FOAM)	160.00 - 180.00	0.6000	0.2849
T5	6	LDF12-50A (2-1/4 FOAM)	160.00 - 180.00	0.6000	0.2849
T5	7	3/4"	160.00 - 180.00	0.6000	0.2849
T5	8	LDF2-50A (3/8 FOAM)	160.00 - 180.00	0.6000	0.2849
T5	9	6 X 24 Hybrid	160.00 - 180.00	0.6000	0.2849
T5	19	LDF4-50A (1/2 FOAM)	160.00 - 161.00	0.6000	0.2849
T5	20	LDF4-50A (1/2 FOAM)	161.00 - 164.00	0.6000	0.2849
T5	21	LDF4-50A (1/2 FOAM)	164.00 - 170.00	0.6000	0.2849
T5	22	LDF4-50A (1/2 FOAM)	170.00 - 171.00	0.6000	0.2849
T5	23	EW63	160.00 - 180.00	0.6000	0.2849
T5	25	T-Bracket	160.00 - 180.00	0.6000	0.2849
T5	26	LDF7-50A (1-5/8 FOAM)	160.00 - 180.00	0.6000	0.2849
T5	27	LDF6-50A (1-1/4 FOAM)	160.00 - 180.00	0.6000	0.2849
T6	1	Safety Line 3/8	140.00 -	0.6000	0.2915

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Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
T6	2	Feedline Ladder (Af)	160.00	0.6000	0.2915
T6	4	AVA7-50 (1-5/8 LOW DENSEL FOAM)	140.00 - 160.00	0.6000	0.2915
T6	5	LDF4-50A (1/2 FOAM)	140.00 - 160.00	0.6000	0.2915
T6	6	LDF12-50A (2-1/4 FOAM)	140.00 - 160.00	0.6000	0.2915
T6	7	3/4"	140.00 - 160.00	0.6000	0.2915
T6	8	LDF2-50A (3/8 FOAM)	140.00 - 160.00	0.6000	0.2915
T6	9	6 X 24 Hybrid	140.00 - 160.00	0.6000	0.2915
T6	17	LDF4-50A (1/2 FOAM)	140.00 - 144.00	0.6000	0.2915
T6	18	LDF4-50A (1/2 FOAM)	144.00 - 152.00	0.6000	0.2915
T6	19	LDF4-50A (1/2 FOAM)	152.00 - 160.00	0.6000	0.2915
T6	23	EW63	140.00 - 160.00	0.6000	0.2915
T6	25	T-Bracket	140.00 - 160.00	0.6000	0.2915
T6	26	LDF7-50A (1-5/8 FOAM)	140.00 - 160.00	0.6000	0.2915
T6	27	LDF6-50A (1-1/4 FOAM)	140.00 - 160.00	0.6000	0.2915
T7	1	Safety Line 3/8	130.00 - 140.00	0.6000	0.3124
T7	2	Feedline Ladder (Af)	130.00 - 140.00	0.6000	0.3124
T7	4	AVA7-50 (1-5/8 LOW DENSEL FOAM)	130.00 - 140.00	0.6000	0.3124
T7	5	LDF4-50A (1/2 FOAM)	130.00 - 140.00	0.6000	0.3124
T7	6	LDF12-50A (2-1/4 FOAM)	130.00 - 140.00	0.6000	0.3124
T7	7	3/4"	130.00 - 140.00	0.6000	0.3124
T7	8	LDF2-50A (3/8 FOAM)	130.00 - 140.00	0.6000	0.3124
T7	9	6 X 24 Hybrid	130.00 - 140.00	0.6000	0.3124
T7	14	LDF4-50A (1/2 FOAM)	130.00 - 133.50	0.6000	0.3124
T7	15	LDF4-50A (1/2 FOAM)	133.50 - 136.00	0.6000	0.3124
T7	16	LDF4-50A (1/2 FOAM)	136.00 - 140.00	0.6000	0.3124
T7	23	EW63	130.00 - 140.00	0.6000	0.3124
T7	25	T-Bracket	130.00 - 140.00	0.6000	0.3124
T7	26	LDF7-50A (1-5/8 FOAM)	130.00 - 140.00	0.6000	0.3124
T7	27	LDF6-50A (1-1/4 FOAM)	130.00 - 140.00	0.6000	0.3124
T8	1	Safety Line 3/8	120.00 - 130.00	0.6000	0.2620
T8	2	Feedline Ladder (Af)	120.00 -	0.6000	0.2620

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Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _u No Ice	K _u Ice
T8	4	AVA7-50 (1-5/8 LOW DENS). FOAM)	130.00 120.00 -	0.6000	0.2620
T8	5	LDF4-50A (1/2 FOAM)	120.00 - 130.00	0.6000	0.2620
T8	6	LDF12-50A (2-1/4 FOAM)	120.00 - 130.00	0.6000	0.2620
T8	7	3/4"	120.00 - 130.00	0.6000	0.2620
T8	8	LDF2-50A (3/8 FOAM)	120.00 - 130.00	0.6000	0.2620
T8	9	6 X 24 Hybrid	120.00 - 130.00	0.6000	0.2620
T8	13	LDF4-50A (1/2 FOAM)	120.00 - 130.00	0.6000	0.2620
T8	23	EW63	120.00 - 130.00	0.6000	0.2620
T8	25	T-Bracket	120.00 - 130.00	0.6000	0.2620
T8	26	LDF7-50A (1-5/8 FOAM)	120.00 - 130.00	0.6000	0.2620
T8	27	LDF6-50A (1-1/4 FOAM)	120.00 - 130.00	0.6000	0.2620
T9	1	Safety Line 3/8	117.00 - 120.00	0.6000	0.2897
T9	2	Feedline Ladder (A1)	117.00 - 120.00	0.6000	0.2897
T9	4	AVA7-50 (1-5/8 LOW DENS). FOAM)	117.00 - 120.00	0.6000	0.2897
T9	5	LDF4-50A (1/2 FOAM)	117.00 - 120.00	0.6000	0.2897
T9	6	LDF12-50A (2-1/4 FOAM)	117.00 - 120.00	0.6000	0.2897
T9	7	3/4"	117.00 - 120.00	0.6000	0.2897
T9	8	LDF2-50A (3/8 FOAM)	117.00 - 120.00	0.6000	0.2897
T9	9	6 X 24 Hybrid	117.00 - 120.00	0.6000	0.2897
T9	13	LDF4-50A (1/2 FOAM)	117.00 - 120.00	0.6000	0.2897
T9	23	EW63	117.00 - 120.00	0.6000	0.2897
T9	25	T-Bracket	117.00 - 120.00	0.6000	0.2897
T9	26	LDF7-50A (1-5/8 FOAM)	117.00 - 120.00	0.6000	0.2897
T9	27	LDF6-50A (1-1/4 FOAM)	117.00 - 120.00	0.6000	0.2897
T10	1	Safety Line 3/8	114.67 - 117.00	0.6000	0.2922
T10	2	Feedline Ladder (A1)	114.67 - 117.00	0.6000	0.2922
T10	4	AVA7-50 (1-5/8 LOW DENS). FOAM)	114.67 - 117.00	0.6000	0.2922
T10	5	LDF4-50A (1/2 FOAM)	114.67 - 117.00	0.6000	0.2922
T10	6	LDF12-50A (2-1/4 FOAM)	114.67 - 117.00	0.6000	0.2922
T10	7	3/4"	114.67 - 117.00	0.6000	0.2922
T10	8	LDF2-50A (3/8 FOAM)	114.67 - 117.00	0.6000	0.2922

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Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
T10	9	6 X 24 Hybrid	117.00	0.6000	0.2922
T10	13	LDF4-50A (1/2 FOAM)	114.67 - 117.00	0.6000	0.2922
T10	23	EW63	117.00	0.6000	0.2922
T10	25	T-Bracket	114.67 - 117.00	0.6000	0.2922
T10	26	LDF7-50A (1-5/8 FOAM)	114.67 - 117.00	0.6000	0.2922
T10	27	LDF6-50A (1-1/4 FOAM)	114.67 - 117.00	0.6000	0.2922
T11	1	Safety Line 3/8	112.33 - 114.67	0.6000	0.2944
T11	2	Feedline Ladder (A)	112.33 - 114.67	0.6000	0.2944
T11	4	AVA7-50 (1-5/8 LOW DENSEL FOAM)	112.33 - 114.67	0.6000	0.2944
T11	5	LDF4-50A (1/2 FOAM)	112.33 - 114.67	0.6000	0.2944
T11	6	LDF12-50A (2-1/4 FOAM)	112.33 - 114.67	0.6000	0.2944
T11	7	3/4"	112.33 - 114.67	0.6000	0.2944
T11	8	LDF2-50A (3/8 FOAM)	112.33 - 114.67	0.6000	0.2944
T11	9	6 X 24 Hybrid	112.33 - 114.67	0.6000	0.2944
T11	13	LDF4-50A (1/2 FOAM)	112.33 - 114.67	0.6000	0.2944
T11	23	EW63	112.33 - 114.67	0.6000	0.2944
T11	25	T-Bracket	112.33 - 114.67	0.6000	0.2944
T11	26	LDF7-50A (1-5/8 FOAM)	112.33 - 114.67	0.6000	0.2944
T11	27	LDF6-50A (1-1/4 FOAM)	112.33 - 114.67	0.6000	0.2944
T12	1	Safety Line 3/8	110.00 - 112.33	0.6000	0.2941
T12	2	Feedline Ladder (A)	110.00 - 112.33	0.6000	0.2941
T12	4	AVA7-50 (1-5/8 LOW DENSEL FOAM)	110.00 - 112.33	0.6000	0.2941
T12	5	LDF4-50A (1/2 FOAM)	110.00 - 112.33	0.6000	0.2941
T12	6	LDF12-50A (2-1/4 FOAM)	110.00 - 112.33	0.6000	0.2941
T12	7	3/4"	110.00 - 112.33	0.6000	0.2941
T12	8	LDF2-50A (3/8 FOAM)	110.00 - 112.33	0.6000	0.2941
T12	9	6 X 24 Hybrid	110.00 - 112.33	0.6000	0.2941
T12	12	LDF4-50A (1/2 FOAM)	110.00 - 111.00	0.6000	0.2941
T12	13	LDF4-50A (1/2 FOAM)	112.33	0.6000	0.2941
T12	23	EW63	110.00 - 112.33	0.6000	0.2941
T12	25	T-Bracket	110.00 -	0.6000	0.2941

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Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _u No Ice	K _u Ice
T12	26	LDF7-50A (1-5/8 FOAM)	112.33 110.00 -	0.6000	0.2941
T12	27	LDF6-50A (1-1/4 FOAM)	112.33 110.00 -	0.6000	0.2941
T13	1	Safety Line 3/8	112.33 107.67 - 110.00	0.6000	0.2950
T13	2	Feedline Ladder (A1)	107.67 - 110.00	0.6000	0.2950
T13	4	AVA7-50 (1-5/8 LOW DENS1. FOAM)	107.67 - 110.00	0.6000	0.2950
T13	5	LDF4-50A (1/2 FOAM)	107.67 - 110.00	0.6000	0.2950
T13	6	LDF12-50A (2-1/4 FOAM)	107.67 - 110.00	0.6000	0.2950
T13	7	3/4"	107.67 - 110.00	0.6000	0.2950
T13	8	LDF2-50A (3/8 FOAM)	107.67 - 110.00	0.6000	0.2950
T13	9	6 X 24 Hybrid	107.67 - 110.00	0.6000	0.2950
T13	12	LDF4-50A (1/2 FOAM)	107.67 - 110.00	0.6000	0.2950
T13	23	EW63	107.67 - 110.00	0.6000	0.2950
T13	25	T-Bracket	107.67 - 110.00	0.6000	0.2950
T13	26	LDF7-50A (1-5/8 FOAM)	107.67 - 110.00	0.6000	0.2950
T13	27	LDF6-50A (1-1/4 FOAM)	107.67 - 110.00	0.6000	0.2950
T14	1	Safety Line 3/8	105.33 - 107.67	0.6000	0.4171
T14	2	Feedline Ladder (A1)	105.33 - 107.67	0.6000	0.4171
T14	4	AVA7-50 (1-5/8 LOW DENS1. FOAM)	105.33 - 107.67	0.6000	0.4171
T14	5	LDF4-50A (1/2 FOAM)	105.33 - 107.67	0.6000	0.4171
T14	6	LDF12-50A (2-1/4 FOAM)	105.33 - 107.67	0.6000	0.4171
T14	7	3/4"	105.33 - 107.67	0.6000	0.4171
T14	8	LDF2-50A (3/8 FOAM)	105.33 - 107.67	0.6000	0.4171
T14	9	6 X 24 Hybrid	105.33 - 107.67	0.6000	0.4171
T14	12	LDF4-50A (1/2 FOAM)	105.33 - 107.67	0.6000	0.4171
T14	23	EW63	105.33 - 107.67	0.6000	0.4171
T14	25	T-Bracket	105.33 - 107.67	0.6000	0.4171
T14	26	LDF7-50A (1-5/8 FOAM)	105.33 - 107.67	0.6000	0.4171
T14	27	LDF6-50A (1-1/4 FOAM)	105.33 - 107.67	0.6000	0.4171
T15	1	Safety Line 3/8	103.00 - 105.33	0.6000	0.4171
T15	2	Feedline Ladder (A1)	103.00 - 105.33	0.6000	0.4171
T15	4	AVA7-50 (1-5/8 LOW	103.00 -	0.6000	0.4171

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Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
T15	5	DENSL FOAM) LDF4-50A (1/2 FOAM)	105.33 103.00 -	0.6000	0.4171
T15	6	LDF12-50A (2-1/4 FOAM)	105.33 103.00 -	0.6000	0.4171
T15	7	3/4"	105.33 103.00 -	0.6000	0.4171
T15	8	LDF2-50A (3/8 FOAM)	105.33 103.00 -	0.6000	0.4171
T15	9	6 X 24 Hybrid	105.33 103.00 -	0.6000	0.4171
T15	11	LDF4-50A (1/2 FOAM)	103.00 - 104.00	0.6000	0.4171
T15	12	LDF4-50A (1/2 FOAM)	104.00 - 105.33	0.6000	0.4171
T15	23	EW63	103.00 - 105.33	0.6000	0.4171
T15	25	T-Bracket	103.00 - 105.33	0.6000	0.4171
T15	26	LDF7-50A (1-5/8 FOAM)	103.00 - 105.33	0.6000	0.4171
T15	27	LDF6-50A (1-1/4 FOAM)	103.00 - 105.33	0.6000	0.4171
T16	1	Safety Line 3/8	100.00 - 103.00	0.6000	0.2995
T16	2	Feedline Ladder (A1)	100.00 - 103.00	0.6000	0.2995
T16	4	AVA7-50 (1-5/8 LOW DENSL FOAM)	100.00 - 103.00	0.6000	0.2995
T16	5	LDF4-50A (1/2 FOAM)	100.00 - 103.00	0.6000	0.2995
T16	6	LDF12-50A (2-1/4 FOAM)	100.00 - 103.00	0.6000	0.2995
T16	7	3/4"	100.00 - 103.00	0.6000	0.2995
T16	8	LDF2-50A (3/8 FOAM)	100.00 - 103.00	0.6000	0.2995
T16	9	6 X 24 Hybrid	100.00 - 103.00	0.6000	0.2995
T16	10	LDF4-50A (1/2 FOAM)	100.00 - 101.00	0.6000	0.2995
T16	11	LDF4-50A (1/2 FOAM)	101.00 - 103.00	0.6000	0.2995
T16	23	EW63	100.00 - 103.00	0.6000	0.2995
T16	25	T-Bracket	100.00 - 103.00	0.6000	0.2995
T16	26	LDF7-50A (1-5/8 FOAM)	100.00 - 103.00	0.6000	0.2995
T16	27	LDF6-50A (1-1/4 FOAM)	100.00 - 103.00	0.6000	0.2995
T17	1	Safety Line 3/8	80.00 - 100.00	0.6000	0.4012
T17	2	Feedline Ladder (A1)	80.00 - 100.00	0.6000	0.4012
T17	4	AVA7-50 (1-5/8 LOW DENSL FOAM)	80.00 - 100.00	0.6000	0.4012
T17	5	LDF4-50A (1/2 FOAM)	80.00 - 100.00	0.6000	0.4012
T17	6	LDF12-50A (2-1/4 FOAM)	80.00 - 100.00	0.6000	0.4012
T17	7	3/4"	80.00 - 100.00	0.6000	0.4012
T17	8	LDF2-50A (3/8 FOAM)	80.00 - 100.00	0.6000	0.4012
T17	9	6 X 24 Hybrid	80.00 - 100.00	0.6000	0.4012
T17	10	LDF4-50A (1/2 FOAM)	80.00 - 100.00	0.6000	0.4012
T17	23	EW63	80.00 - 100.00	0.6000	0.4012

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Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
T17	25	T-Bracket	80.00 - 100.00	0.6000	0.4012
T17	26	LDF7-50A (1-5/8 FOAM)	80.00 - 100.00	0.6000	0.4012
T17	27	LDF6-50A (1-1/4 FOAM)	80.00 - 100.00	0.6000	0.4012
T18	1	Safety Line 3/8	60.00 - 80.00	0.6000	0.4235
T18	2	Feedline Ladder (A)	60.00 - 80.00	0.6000	0.4235
T18	4	AVAT-50 (1-5/8 LOW	60.00 - 80.00	0.6000	0.4235
		DENSL FOAM)			
T18	5	LDF4-50A (1/2 FOAM)	60.00 - 80.00	0.6000	0.4235
T18	6	LDF12-50A (2-1/4 FOAM)	60.00 - 80.00	0.6000	0.4235
T18	7	3/4"	60.00 - 80.00	0.6000	0.4235
T18	8	LDF2-50A (3/8 FOAM)	60.00 - 80.00	0.6000	0.4235
T18	9	6 X 24 Hybrid	60.00 - 80.00	0.6000	0.4235
T18	10	LDF4-50A (1/2 FOAM)	60.00 - 80.00	0.6000	0.4235
T18	23	EW63	60.00 - 80.00	0.6000	0.4235
T18	25	T-Bracket	60.00 - 80.00	0.6000	0.4235
T18	26	LDF7-50A (1-5/8 FOAM)	60.00 - 80.00	0.6000	0.4235
T18	27	LDF6-50A (1-1/4 FOAM)	60.00 - 80.00	0.6000	0.4235
T19	1	Safety Line 3/8	40.00 - 60.00	0.6000	0.4358
T19	2	Feedline Ladder (A)	40.00 - 60.00	0.6000	0.4358
T19	4	AVAT-50 (1-5/8 LOW	40.00 - 60.00	0.6000	0.4358
		DENSL FOAM)			
T19	5	LDF4-50A (1/2 FOAM)	40.00 - 60.00	0.6000	0.4358
T19	6	LDF12-50A (2-1/4 FOAM)	40.00 - 60.00	0.6000	0.4358
T19	7	3/4"	40.00 - 60.00	0.6000	0.4358
T19	8	LDF2-50A (3/8 FOAM)	40.00 - 60.00	0.6000	0.4358
T19	9	6 X 24 Hybrid	40.00 - 60.00	0.6000	0.4358
T19	10	LDF4-50A (1/2 FOAM)	40.00 - 60.00	0.6000	0.4358
T19	23	EW63	40.00 - 60.00	0.6000	0.4358
T19	25	T-Bracket	40.00 - 60.00	0.6000	0.4358
T19	26	LDF7-50A (1-5/8 FOAM)	40.00 - 60.00	0.6000	0.4358
T19	27	LDF6-50A (1-1/4 FOAM)	40.00 - 60.00	0.6000	0.4358
T20	1	Safety Line 3/8	20.00 - 40.00	0.6000	0.4537
T20	2	Feedline Ladder (A)	20.00 - 40.00	0.6000	0.4537
T20	4	AVAT-50 (1-5/8 LOW	20.00 - 40.00	0.6000	0.4537
		DENSL FOAM)			
T20	5	LDF4-50A (1/2 FOAM)	20.00 - 40.00	0.6000	0.4537
T20	6	LDF12-50A (2-1/4 FOAM)	20.00 - 40.00	0.6000	0.4537
T20	7	3/4"	20.00 - 40.00	0.6000	0.4537
T20	8	LDF2-50A (3/8 FOAM)	20.00 - 40.00	0.6000	0.4537
T20	9	6 X 24 Hybrid	20.00 - 40.00	0.6000	0.4537
T20	10	LDF4-50A (1/2 FOAM)	20.00 - 40.00	0.6000	0.4537
T20	23	EW63	20.00 - 40.00	0.6000	0.4537
T20	25	T-Bracket	20.00 - 40.00	0.6000	0.4537
T20	26	LDF7-50A (1-5/8 FOAM)	20.00 - 40.00	0.6000	0.4537
T20	27	LDF6-50A (1-1/4 FOAM)	20.00 - 40.00	0.6000	0.4537
T21	1	Safety Line 3/8	5.00 - 20.00	0.6000	0.5005
T21	2	Feedline Ladder (A)	5.00 - 20.00	0.6000	0.5005
T21	4	AVAT-50 (1-5/8 LOW	5.00 - 20.00	0.6000	0.5005
		DENSL FOAM)			
T21	5	LDF4-50A (1/2 FOAM)	5.00 - 20.00	0.6000	0.5005
T21	6	LDF12-50A (2-1/4 FOAM)	5.00 - 20.00	0.6000	0.5005
T21	7	3/4"	5.00 - 20.00	0.6000	0.5005
T21	8	LDF2-50A (3/8 FOAM)	5.00 - 20.00	0.6000	0.5005
T21	9	6 X 24 Hybrid	5.00 - 20.00	0.6000	0.5005
T21	10	LDF4-50A (1/2 FOAM)	5.00 - 20.00	0.6000	0.5005
T21	23	EW63	5.00 - 20.00	0.6000	0.5005
T21	25	T-Bracket	5.00 - 20.00	0.6000	0.5005
T21	26	LDF7-50A (1-5/8 FOAM)	5.00 - 20.00	0.6000	0.5005
T21	27	LDF6-50A (1-1/4 FOAM)	5.00 - 20.00	0.6000	0.5005
T22	1	Safety Line 3/8	0.00 - 5.00	0.6000	0.2179
T22	2	Feedline Ladder (A)	0.00 - 5.00	0.6000	0.2179
T22	4	AVAT-50 (1-5/8 LOW	0.00 - 5.00	0.6000	0.2179

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Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
T22	5	DENSI FOAM) LDF4-50A (1/2 FOAM)	0.00 - 5.00	0.6000	0.2179
T22	6	LDF12-50A (2-1/4 FOAM)	0.00 - 5.00	0.6000	0.2179
T22	7	3/4"	0.00 - 5.00	0.6000	0.2179
T22	8	LDF2-50A (3/8 FOAM)	0.00 - 5.00	0.6000	0.2179
T22	9	6 X 24 Hybrid	0.00 - 5.00	0.6000	0.2179
T22	10	LDF4-50A (1/2 FOAM)	0.00 - 5.00	0.6000	0.2179
T22	23	EW63	0.00 - 5.00	0.6000	0.2179
T22	25	T-Bracket	0.00 - 5.00	0.6000	0.2179
T22	26	LDF7-50A (1-5/8 FOAM)	0.00 - 5.00	0.6000	0.2179
T22	27	LDF6-50A (1-1/4 FOAM)	0.00 - 5.00	0.6000	0.2179

Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets: Horiz Lateral Vert	Azimuth Adjustment °	Placement ft	C _d A _f Front ft²	C _d A _s Side ft²	Weight lb
5/8"x4" Lightning Rod	C	From Leg	0.00 0.00 0.00	0.0000	250.00	0.25 0.66 0.97	0.25 0.66 0.97	5.00 7.82 13.29
Flash Beacon	C	From Leg	0.00 0.00 0.00	0.0000	250.00	1.49 1.53 2.36	1.49 1.53 2.36	32.83 35.00 62.21
*****						2.60 3.11	2.60 3.11	92.62 163.69
Pirod 10' Box Arm	C	From Leg	3.00 0.00 0.00	0.0000	226.00	5.00 10.00 15.00	5.00 10.00 15.00	250.00 300.00 350.00
*****						25.00	25.00	450.00
NHH-85B-R2M w/ Mount Pipe	A	From Leg	3.00 0.00 1.50	0.0000	218.50	8.38 8.94 9.46	7.07 8.25 9.15	69.20 138.84 215.07
NHH-85B-R2M w/ Mount Pipe	B	From Leg	3.00 0.00 1.50	0.0000	218.50	8.38 8.94 9.46	7.07 8.25 9.15	69.20 138.84 215.07
NHH-85B-R2M w/ Mount Pipe	C	From Leg	3.00 0.00 1.50	0.0000	218.50	8.38 8.94 9.46	7.07 8.25 9.15	69.20 138.84 215.07
NHH-85B-R2M w/ Mount Pipe	C	From Leg	3.00 0.00 1.50	0.0000	218.50	8.38 8.94 9.46	7.07 8.25 9.15	69.20 138.84 215.07
NHH-85B-R2M w/ Mount Pipe	C	From Leg	3.00 0.00 1.50	0.0000	218.50	8.38 8.94 9.46	7.07 8.25 9.15	69.20 138.84 215.07
MT6413 77A w/ Mount Pipe	B	From Leg	3.00 0.00 1.50	0.0000	218.50	5.38 6.33 7.15	2.63 3.58 4.38	86.52 132.87 183.12
						8.52	5.65	305.60

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Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert	Azimuth Adjustment	Placement	C.A. Front	C.A. Side	Weight
			ft ft ft	°	ft	ft ²	ft ²	lb
MT6413 77A w/ Mount Pipe	C	From Leg	3.00 0.00 1.50	0.0000	218.50	5.38 6.33 7.15	2.63 3.58 4.38	86.52 132.87 183.12
								183.12
								305.60
RF4439d-25A	B	From Leg	3.00 0.00 1.50	0.0000	218.50	0.00 0.00 0.00	1.25 1.39 1.54	75.00 93.34 114.47
								165.87
RF4439d-25A	C	From Leg	3.00 0.00 1.50	0.0000	218.50	0.00 0.00 0.00	1.25 1.39 1.54	75.00 93.34 114.47
								165.87
RF4461d-13A_320W_B13-B 5_RRH	B	From Leg	3.00 0.00 1.50	0.0000	218.50	0.00 0.00 0.00	0.63 0.74 0.85	39.70 51.42 65.42
								101.03
RF4461d-13A_320W_B13-B 5_RRH	C	From Leg	3.00 0.00 1.50	0.0000	218.50	0.00 0.00 0.00	0.63 0.74 0.85	39.70 51.42 65.42
								101.03
RC3DC-3315-PF-48	B	From Leg	1.50 0.00 1.50	0.0000	218.50	0.00 0.00 0.00	2.51 2.72 2.94	32.00 63.47 98.69
								181.19
RC3DC-3315-PF-48	C	From Leg	1.50 0.00 1.50	0.0000	218.50	0.00 0.00 0.00	2.51 2.72 2.94	32.00 63.47 98.69
								181.19
VFA12-HD	A	None		0.0000	218.50	13.20 19.50 25.80	9.20 14.60 19.50	658.00 804.00 1015.00
								1242.00
								658.00
VFA12-HD	B	None		0.0000	218.50	13.20 19.50 25.80	9.20 14.60 19.50	658.00 804.00 1015.00
								1242.00

Dish Mount	C	From Leg	2.00 0.00 0.00	0.0000	215.00	2.90 3.30 3.70	2.90 3.30 3.70	86.00 111.80 137.60
								189.20

RRUS 11E B12	A	From Leg	3.00 0.00 0.00	0.0000	198.00	1.02 1.16 1.30	2.52 2.72 2.92	55.00 74.32 96.56
								150.56
RRUS 11E B12	B	From Leg	3.00 0.00 0.00	0.0000	198.00	1.02 1.16 1.30	2.52 2.72 2.92	55.00 74.32 96.56
								150.56
RRUS 11E B12	C	From Leg	3.00 0.00 0.00	0.0000	198.00	1.02 1.16 1.30	2.52 2.72 2.92	55.00 74.32 96.56
								150.56
DC6-48-60-18-8F	A	From Leg	3.00 0.00 0.00	0.0000	198.00	0.92 1.46 1.64	0.92 1.46 1.64	18.90 36.62 56.82

inxTower

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Array Inc.	utoluganti

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert	Azimuth Adjustment	Placement	C _μ A _μ Front	C _μ A _μ Side	Weight
DC6-48-60-18-8F	A	From Leg	3.00 0.00 0.00	0.0000	198.00	2.04 0.92 1.46	2.04 0.92 1.46	105.34 18.90 36.62
						1.64 2.04 0.92	1.64 2.04 0.92	56.82 105.34 18.90
DC6-48-60-18-8F	A	From Leg	3.00 0.00 0.00	0.0000	198.00	1.46 1.64 2.04	1.46 1.64 2.04	36.62 56.82 105.34
RRH Mount	A	From Leg	3.00 0.00 0.00	0.0000	198.00	1.68 1.81 2.03	1.39 1.67 2.00	80.00 100.00 120.00
RRH Mount	B	From Leg	3.00 0.00 0.00	0.0000	198.00	1.68 1.81 2.03	1.39 1.67 2.00	80.00 100.00 120.00
RRH Mount	C	From Leg	3.00 0.00 0.00	0.0000	198.00	1.68 1.81 2.03	1.39 1.67 2.00	80.00 100.00 120.00
*****						2.20	2.51	160.00
AM-X-CD-17-65-00T-RET w/ Mount Pipe	A	From Leg	3.00 0.00 0.00	0.0000	195.00	11.31 11.93 12.55	8.70 10.11 11.38	88.70 172.06 263.45
AM-X-CD-17-65-00T-RET w/ Mount Pipe	B	From Leg	3.00 0.00 0.00	0.0000	195.00	13.80 11.93 12.55	13.58 10.11 11.38	480.57 172.06 263.45
AM-X-CD-17-65-00T-RET w/ Mount Pipe	C	From Leg	3.00 0.00 0.00	0.0000	195.00	11.31 11.93 12.55	8.70 10.11 11.38	88.70 172.06 263.45
HPA65R-BU8A_TIA w/ Mount Pipe	A	From Leg	3.00 0.00 0.00	0.0000	195.00	13.80 13.05 13.66	13.58 9.42 10.82	480.57 97.20 192.94
HPA65R-BU8A_TIA w/ Mount Pipe	B	From Leg	3.00 0.00 0.00	0.0000	195.00	15.51 13.05 13.66	14.24 9.42 10.82	538.90 97.20 192.94
HPA65R-BU8A_TIA w/ Mount Pipe	C	From Leg	3.00 0.00 0.00	0.0000	195.00	14.27 13.05 13.66	14.24 9.42 10.82	538.90 97.20 192.94
RRUS 4478 B12A	A	From Leg	3.00 0.00 0.00	0.0000	195.00	2.20 2.20 2.78	1.40 1.25 1.89	77.01 59.40 147.26
RRUS 4478 B12A	A	From Leg	3.00 0.00 0.00	0.0000	195.00	2.20 2.20 2.78	1.40 1.25 1.89	77.01 59.40 147.26
RRUS 4478 B12A	A	From Leg	3.00 0.00 0.00	0.0000	195.00	2.20 2.20 2.78	1.40 1.25 1.89	77.01 59.40 147.26

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	Client	Array Inc.	Designed by utoluganti

Description	Face or Leg	Offset Type	Offsets:			Azimuth Adjustment	Placement		C.A. Front	C.A. Side	Weight
			Horz	Lateral	Vert						
			ft	ft	ft	°	ft		ft²	ft²	lb
RRUS 4415 B25	A	From Leg	3.00			0.0000	195.00		2.78	1.89	147.26
			0.00				No Ice		1.84	0.82	46.30
			0.00				1/2" Ice		2.01	0.94	60.37
			0.00				1" Ice		2.19	1.07	76.96
			0.00				2" Ice		2.57	1.37	118.47
RRUS 4415 B25	B	From Leg	3.00			0.0000	195.00		1.84	0.82	46.30
			0.00				No Ice		2.01	0.94	60.37
			0.00				1/2" Ice		2.19	1.07	76.96
			0.00				1" Ice		2.19	1.07	76.96
			0.00				2" Ice		2.57	1.37	118.47
RRUS 4415 B25	C	From Leg	3.00			0.0000	195.00		1.84	0.82	46.30
			0.00				No Ice		2.01	0.94	60.37
			0.00				1/2" Ice		2.19	1.07	76.96
			0.00				1" Ice		2.19	1.07	76.96
			0.00				2" Ice		2.57	1.37	118.47
13 Sector Mount	C	None				0.0000	195.00		45.84	45.84	2292.00
							No Ice		57.56	57.56	3228.81
							1/2" Ice		69.44	69.44	4375.38
							1" Ice		69.44	69.44	4375.38
							2" Ice		93.96	93.96	7288.68

AIR 6419 B41 w/ Mount Pipe (T-Mobile)	A	From Leg	3.00			0.0000	185.00		5.20	4.10	117.32
			0.00				1/2" Ice		6.04	5.12	170.14
			0.00				1" Ice		6.64	5.81	226.97
			0.00				2" Ice		7.88	7.22	359.39
AIR 6419 B41 w/ Mount Pipe (T-Mobile)	B	From Leg	3.00			0.0000	185.00		5.20	4.10	117.32
			0.00				No Ice		6.04	5.12	170.14
			0.00				1/2" Ice		6.64	5.81	226.97
			0.00				1" Ice		6.64	5.81	226.97
			0.00				2" Ice		7.88	7.22	359.39
AIR 6419 B41 w/ Mount Pipe (T-Mobile)	C	From Leg	3.00			0.0000	185.00		5.20	4.10	117.32
			0.00				No Ice		6.04	5.12	170.14
			0.00				1/2" Ice		6.64	5.81	226.97
			0.00				1" Ice		6.64	5.81	226.97
			0.00				2" Ice		7.88	7.22	359.39
APXVLL19P_43-C-A20 w/ Mount Pipe (T-Mobile)	A	From Leg	3.00			0.0000	185.00		8.25	4.25	43.33
			0.00				1/2" Ice		8.72	4.76	89.15
			0.00				1" Ice		9.20	5.30	141.56
			0.00				2" Ice		10.19	6.42	268.06
APXVLL19P_43-C-A20 w/ Mount Pipe (T-Mobile)	B	From Leg	3.00			0.0000	185.00		8.25	4.25	43.33
			0.00				No Ice		8.72	4.76	89.15
			0.00				1/2" Ice		9.20	5.30	141.56
			0.00				1" Ice		9.20	5.30	141.56
			0.00				2" Ice		10.19	6.42	268.06
APXVLL19P_43-C-A20 w/ Mount Pipe (T-Mobile)	C	From Leg	3.00			0.0000	185.00		8.72	4.76	89.15
			0.00				No Ice		8.72	4.76	89.15
			0.00				1/2" Ice		9.20	5.30	141.56
			0.00				1" Ice		9.20	5.30	141.56
			0.00				2" Ice		10.19	6.42	268.06
APXVALL24_43-U-NA20 w/ Mount Pipe (T-Mobile)	A	From Leg	3.00			0.0000	185.00		20.24	10.79	157.20
			0.00				No Ice		20.89	12.21	291.76
			0.00				1/2" Ice		21.55	13.49	435.31
			0.00				1" Ice		22.88	15.72	759.63
			0.00				2" Ice		21.55	13.49	435.31
APXVALL24_43-U-NA20 w/ Mount Pipe (T-Mobile)	B	From Leg	3.00			0.0000	185.00		20.24	10.79	157.20
			0.00				No Ice		20.89	12.21	291.76
			0.00				1/2" Ice		21.55	13.49	435.31
			0.00				1" Ice		21.55	13.49	435.31
			0.00				2" Ice		22.88	15.72	759.63
APXVALL24_43-U-NA20 w/ Mount Pipe (T-Mobile)	C	From Leg	3.00			0.0000	185.00		20.24	10.79	157.20
			0.00				No Ice		20.89	12.21	291.76
			0.00				1/2" Ice		21.55	13.49	435.31
			0.00				1" Ice		21.55	13.49	435.31
			0.00				2" Ice		22.88	15.72	759.63
4480 B71+B85 (T-Mobile)	A	From Leg	3.00			0.0000	185.00		0.00	1.38	84.00
			0.00				No Ice		0.00	1.54	105.70
			0.00				1/2" Ice		0.00	1.71	130.51
			0.00				1" Ice		0.00	1.71	130.51

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POD Group
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Array Inc.	utoluganti

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert	Azimuth Adjustment	Placement	C ₁ A ₁ Front	C ₁ A ₁ Side	Weight
4480 B71+B85 (T-Mobile)	B	From Leg	3.00 0.00 0.00	0.0000	185.00	0.00 0.00 0.00	2.07 1.38 1.54	190.23 84.00 105.70
4480 B71+B85 (T-Mobile)	C	From Leg	3.00 0.00 0.00	0.0000	185.00	0.00 0.00 0.00	2.07 1.71 1.38	130.51 190.23 84.00
4460 B25+B66 (T-Mobile)	A	From Leg	3.00 0.00 0.00	0.0000	185.00	0.00 0.00 0.00	2.07 1.98 2.16	105.70 130.51 190.23
4460 B25+B66 (T-Mobile)	B	From Leg	3.00 0.00 0.00	0.0000	185.00	0.00 0.00 0.00	2.16 1.98 2.34	134.38 109.00 163.03
4460 B25+B66 (T-Mobile)	C	From Leg	3.00 0.00 0.00	0.0000	185.00	0.00 0.00 0.00	2.16 2.34 2.74	230.91 134.38 163.03
4460 B25+B66 (T-Mobile)	A	From Leg	3.00 0.00 0.00	0.0000	185.00	0.00 0.00 0.00	2.16 2.34 2.74	230.91 134.38 163.03
4460 B25+B66 (T-Mobile)	B	From Leg	3.00 0.00 0.00	0.0000	185.00	0.00 0.00 0.00	2.16 2.34 2.74	230.91 134.38 163.03
4460 B25+B66 (T-Mobile)	C	From Leg	3.00 0.00 0.00	0.0000	185.00	0.00 0.00 0.00	2.16 2.34 2.74	230.91 134.38 163.03
VFA12-HD (T-Mobile)	A	None		0.0000	185.00	0.00 0.00 0.00	2.16 2.34 2.74	230.91 134.38 163.03
VFA12-HD (T-Mobile)	B	None		0.0000	185.00	0.00 0.00 0.00	2.16 2.34 2.74	230.91 134.38 163.03
VFA12-HD (T-Mobile)	C	None		0.0000	185.00	0.00 0.00 0.00	2.16 2.34 2.74	230.91 134.38 163.03
3' Side arm mount	C	From Leg	3.00 0.00 0.00	0.0000	172.83	0.46 0.65 0.87	0.91 1.30 1.71	23.00 32.54 46.82
30" Omni Whip	B	From Leg	1.00 0.00 0.00	0.0000	171.00	0.34 0.48 0.64	0.34 0.48 0.64	2.40 5.73 10.82
8' Yagi	B	From Leg	1.00 0.00 0.00	0.0000	164.00	0.98 5.00 5.88	0.98 5.00 5.88	26.88 15.00 32.00
8' Yagi	B	From Leg	1.00 0.00 0.00	0.0000	161.00	8.52 5.00 5.88	8.52 5.00 5.88	60.00 130.00 20.00
13' Yagi	B	From Leg	1.00 0.00 0.00	0.0000	152.00	6.00 12.02 18.05	6.00 12.02 18.05	48.00 90.00 190.00
13' Yagi	B	From Leg	1.00 0.00 0.00	0.0000	144.00	6.00 12.02	6.00 12.02	20.00 48.00

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Description	Face or Leg	Offset Type	Offsets:			Azimuth Adjustment	Placement	C/A ₁ Front	C/A ₁ Side	Weight
			Horz	Lateral	Vert					
			ft	ft	ft	°	ft	ft ²	ft ²	lb
			0.00							
8 Yagi	B	From Leg	1.00			0.0000	140.00	18.05 30.17	18.05 30.17	90.00 190.00
			0.00					5.00	5.00	15.00
			0.00					5.88	5.88	32.00
			0.00					6.86	6.86	60.00
8 Yagi	B	From Leg	1.00			0.0000	136.00	8.52 5.00	8.52 5.00	130.00 15.00
			0.00					5.88	5.88	32.00
			0.00					6.86	6.86	60.00
8 Yagi	B	From Leg	1.00			0.0000	133.50	8.52 5.00	8.52 5.00	130.00 15.00
			0.00					5.88	5.88	32.00
			0.00					6.86	6.86	60.00
15 Yagi	B	From Leg	1.00			0.0000	130.00	8.52 7.50	8.52 7.50	130.00 25.00
			0.00					15.02	15.02	60.00
			0.00					22.55	22.55	110.00
			0.00					37.67	37.67	240.00
8 Yagi	B	From Leg	1.00			0.0000	130.00	5.00 5.88	5.00 5.88	15.00 32.00
			0.00					5.88	5.88	60.00
			0.00					6.86	6.86	60.00
15 Yagi	B	From Leg	1.00			0.0000	111.00	8.52 7.50	8.52 7.50	130.00 25.00
			0.00					15.02	15.02	60.00
			0.00					22.55	22.55	110.00
			0.00					37.67	37.67	240.00
15 Yagi	B	From Leg	1.00			0.0000	104.00	7.50 7.50	7.50 7.50	25.00 25.00
			0.00					15.02	15.02	60.00
			0.00					22.55	22.55	110.00
			0.00					37.67	37.67	240.00
39' x 19' x 8' Panel w/ Mount Pipe	C	From Leg	1.00			0.0000	101.00	8.06 8.58	4.30 4.91	134.74 200.45
			0.00					9.11	5.52	271.30
			0.00					10.21	6.81	433.75
2.5" OD 5 Pipe	C	From Leg	1.00			0.0000	101.00	1.23 1.53	1.23 1.53	18.30 27.77
			0.00					1.84	1.84	40.71
			0.00					2.49	2.49	77.58
*****USC										
LOADING*****										
13 Sector Frames (3)	C	None				0.0000	245.00	38.89 50.40	38.89 50.40	1551.00 2279.10
								61.77	61.77	3216.81
								84.35	84.35	5704.56
AM-X-CW-18-65-00T-RET w/ Mount Pipe	A	From Leg	4.00			0.0000	245.00	11.31 11.93	8.70 10.11	79.20 162.56
			0.00					10.11	11.38	253.95
			0.00					12.55	11.38	253.95
AM-X-CW-18-65-00T-RET w/ Mount Pipe	B	From Leg	4.00			0.0000	245.00	11.31 11.93	8.70 10.11	79.20 162.56
			0.00					10.11	11.38	253.95
			0.00					12.55	11.38	253.95
AM-X-CW-18-65-00T-RET w/ Mount Pipe	C	From Leg	4.00			0.0000	245.00	11.31 11.93	8.70 10.11	79.20 162.56
			0.00					10.11	11.38	253.95
			0.00					12.55	11.38	253.95
BXA-70063-8CF w/ Mount	A	From Leg	4.00			0.0000	245.00	10.68 10.68	7.88	53.20

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Description	Face or Leg	Offset Type	Offsets:			Azimuth Adjustment	Placement	C _u d ₁			Weight
			Horz	Lateral	Vert			Front	Side	lb	
Pipe			0.00	0.00	ft		ft	ft ²	ft ²	lb	
BXA-70063-8CF w/ Mount Pipe	B	From Leg	4.00	0.0000			245.00	11.30	9.28	130.62	
			0.00					11.92	10.53	215.87	
			0.00					13.18	12.71	420.17	
			0.00					10.68	7.88	53.20	
			0.00					11.30	9.28	130.62	
BXA-70063-8CF w/ Mount Pipe	C	From Leg	4.00	0.0000			245.00	11.92	10.53	215.87	
			0.00					13.18	12.71	420.17	
			0.00					10.68	7.88	53.20	
			0.00					11.30	9.28	130.62	
			0.00					13.18	12.71	420.17	
(2) Side Arm RRU Mounts (3)	C	None		0.0000			230.00	2.62	2.62	288.00	
								13.18	12.71	420.17	
								11.92	10.53	215.87	
								10.68	7.88	53.20	
								11.30	9.28	130.62	
RRUS 11	A	From Leg	1.00	0.0000			230.00	0.00	1.81	83.86	
			0.00					0.00	2.11	113.91	
			0.00					0.00	2.11	113.91	
			0.00					0.00	2.76	187.93	
			0.00					0.00	1.54	57.30	
RRUS 11	B	From Leg	1.00	0.0000			230.00	0.00	1.81	83.86	
			0.00					0.00	2.76	187.93	
			0.00					0.00	1.54	57.30	
			0.00					0.00	2.11	113.91	
			0.00					0.00	2.76	187.93	
RRUS 11	C	From Leg	1.00	0.0000			230.00	0.00	1.81	83.86	
			0.00					0.00	2.11	113.91	
			0.00					0.00	2.76	187.93	
			0.00					0.00	1.54	57.30	
			0.00					0.00	2.11	113.91	
(2) RRUS 11E B12	A	From Leg	1.00	0.0000			230.00	0.00	2.52	55.00	
			0.00					0.00	2.72	74.32	
			0.00					0.00	2.92	96.56	
			0.00					0.00	3.35	150.56	
			0.00					0.00	2.92	55.00	
(2) RRUS 11E B12	B	From Leg	1.00	0.0000			230.00	0.00	2.52	55.00	
			0.00					0.00	2.72	74.32	
			0.00					0.00	2.92	96.56	
			0.00					0.00	3.35	150.56	
			0.00					0.00	2.92	55.00	
(2) RRUS 11E B12	C	From Leg	1.00	0.0000			230.00	0.00	2.52	55.00	
			0.00					0.00	2.72	74.32	
			0.00					0.00	2.92	96.56	
			0.00					0.00	3.35	150.56	
			0.00					0.00	2.92	55.00	
RUSDC-6267-PF-48	B	From Leg	1.00	0.0000			230.00	0.00	2.51	150.56	
			0.00					0.00	2.72	32.00	
			0.00					0.00	2.94	63.47	
			0.00					0.00	3.41	98.69	
			0.00					0.00	2.51	181.19	
RUSDC-6267-PF-48	C	From Leg	1.00	0.0000			230.00	0.00	2.51	32.00	
			0.00					0.00	2.72	63.47	
			0.00					0.00	2.94	98.69	
			0.00					0.00	3.41	181.19	
			0.00					0.00	2.51	32.00	
(4) DBC0056F1 V51-1	A	From Leg	1.00	0.0000			230.00	0.00	0.32	10.97	
			0.00					0.00	0.25	7.05	
			0.00					0.00	0.39	16.25	
			0.00					0.00	0.57	31.65	
			0.00					0.00	0.32	10.97	
(4) DBC0056F1 V51-1	B	From Leg	1.00	0.0000			230.00	0.00	0.32	10.97	
			0.00					0.00	0.25	7.05	
			0.00					0.00	0.39	16.25	
			0.00					0.00	0.57	31.65	
			0.00					0.00	0.32	10.97	
(4) DBC0056F1 V51-1	C	From Leg	1.00	0.0000			230.00	0.00	0.32	10.97	
			0.00					0.00	0.25	7.05	
			0.00					0.00	0.39	16.25	
			0.00					0.00	0.57	31.65	
			0.00					0.00	0.32	10.97	

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Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert	Azimuth Adjustment	Placement	C ₁ A ₁ Front	C ₁ A ₁ Side	Weight
			<i>f_h</i> <i>f_l</i> <i>f_v</i>	°	<i>f_h</i>	<i>f_h²</i>	<i>f_h²</i>	<i>lb</i>
			0.00			1" Ice 0.00 2" Ice 0.00	0.39 0.57	16.25 31.65

Dishes

Description	Face or Leg	Dish Type	Offset Type	Offsets: Horz Lateral Vert	Azimuth Adjustment	3 dB Beam Width	Elevation	Outside Diameter	Aperture Area	Weight
6' Grid Dish	B	Grid	From Leg	2.00 0.00 0.00	0.0000		<i>f_h</i> 161.00	<i>f_h</i> 6.00	No Ice 28.27 1/2" Ice 29.07 1" Ice 29.86 2" Ice 31.44	100.00 150.00 400.00 700.00
P4-57W-PXA	A	Paraboloid w/Radome	From Leg	1.00 0.00 0.00	0.0000		215.00	4.37	No Ice 15.00 1/2" Ice 15.54 1" Ice 16.09 2" Ice 17.18	170.00 249.80 329.59 489.19

Load Combinations

Comb. No.	Description
1	Dead Only
2	1.2 Dead+1.0 Wind 0 deg. - No Ice+1.0 Guy
3	1.2 Dead+1.0 Wind 30 deg. - No Ice+1.0 Guy
4	1.2 Dead+1.0 Wind 60 deg. - No Ice+1.0 Guy
5	1.2 Dead+1.0 Wind 90 deg. - No Ice+1.0 Guy
6	1.2 Dead+1.0 Wind 120 deg. - No Ice+1.0 Guy
7	1.2 Dead+1.0 Wind 150 deg. - No Ice+1.0 Guy
8	1.2 Dead+1.0 Wind 180 deg. - No Ice+1.0 Guy
9	1.2 Dead+1.0 Wind 210 deg. - No Ice+1.0 Guy
10	1.2 Dead+1.0 Wind 240 deg. - No Ice+1.0 Guy
11	1.2 Dead+1.0 Wind 270 deg. - No Ice+1.0 Guy
12	1.2 Dead+1.0 Wind 300 deg. - No Ice+1.0 Guy
13	1.2 Dead+1.0 Wind 330 deg. - No Ice+1.0 Guy
14	1.2 Dead+1.0 Ice+1.0 Temp+Guy
15	1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp+1.0 Guy
16	1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp+1.0 Guy
17	1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp+1.0 Guy
18	1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp+1.0 Guy
19	1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp+1.0 Guy
20	1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp+1.0 Guy
21	1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp+1.0 Guy
22	1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp+1.0 Guy
23	1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp+1.0 Guy
24	1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp+1.0 Guy
25	1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp+1.0 Guy

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Comb. No.	Description
26	1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp+1.0 Guy
27	Dead+Wind 0 deg - Service+Guy
28	Dead+Wind 30 deg - Service+Guy
29	Dead+Wind 60 deg - Service+Guy
30	Dead+Wind 90 deg - Service+Guy
31	Dead+Wind 120 deg - Service+Guy
32	Dead+Wind 150 deg - Service+Guy
33	Dead+Wind 180 deg - Service+Guy
34	Dead+Wind 210 deg - Service+Guy
35	Dead+Wind 240 deg - Service+Guy
36	Dead+Wind 270 deg - Service+Guy
37	Dead+Wind 300 deg - Service+Guy
38	Dead+Wind 330 deg - Service+Guy

Maximum Tower Deflections - Service Wind

Section No.	Elevation <i>ft</i>	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
T1	250 - 240	3.045	33	0.2567	0.0700
T2	240 - 220	3.333	33	0.2601	0.0523
T3	220 - 200	4.203	32	0.2103	0.0618
T4	200 - 180	4.721	31	0.0771	0.0804
T5	180 - 160	4.670	31	0.0723	0.0522
T6	160 - 140	4.432	31	0.0918	0.0482
T7	140 - 130	3.945	31	0.1444	0.0698
T8	130 - 120	3.600	31	0.1488	0.0670
T9	120 - 117	3.268	31	0.1375	0.0562
T10	117 - 114.67	3.170	31	0.1309	0.0559
T11	114.67 - 112.33	3.108	31	0.1266	0.0565
T12	112.33 - 110	3.050	31	0.1240	0.0612
T13	110 - 107.67	2.991	31	0.1223	0.0661
T14	107.67 - 105.33	2.934	31	0.1211	0.0709
T15	105.33 - 103	2.876	31	0.1205	0.0757
T16	103 - 100	2.817	31	0.1202	0.0800
T17	100 - 80	2.747	31	0.1203	0.0980
T18	80 - 60	2.230	31	0.1286	0.1474
T19	60 - 40	1.664	31	0.1242	0.1910
T20	40 - 20	1.168	31	0.1226	0.2089
T21	20 - 5	0.626	31	0.1400	0.2019
T22	5 - 0	0.160	31	0.1506	0.1837

Critical Deflections and Radius of Curvature - Service Wind

Elevation <i>ft</i>	Aperture/ance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature <i>ft</i>
250.00	5/8"x4' Lighting Rod	33	3.045	0.2567	0.0700	33037
245.00	13' Sector Frames (3)	33	3.185	0.2594	0.0599	33037
237.00	Guy	32	3.432	0.2586	0.0498	26773
230.00	(2) Side Arm RRU Mounts (3)	32	3.761	0.2479	0.0502	52591
226.00	Pinned 10' Box Arm	32	3.945	0.2364	0.0536	20134
218.50	NHH-85B-R2M w/ Mount Pipe	32	4.261	0.2019	0.0643	9754
215.00	P4-57W-PXA	32	4.387	0.1801	0.0703	8279
198.00	RRUS 11E B12	31	4.742	0.0657	0.0774	5749

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Elevation	Appurtenance	Gov. Load	Deflection	Tilt	Twist	Radius of Curvature
<i>ft</i>		<i>Comb.</i>	<i>in</i>	°	°	<i>ft</i>
195.00	(3) AM-X-CD-17-65-00T-RET w/ Mount Pipe	31	4.759	0.0509	0.0709	6835
185.00	ALR 6419 B41 w/ Mount Pipe	31	4.718	0.0542	0.0546	22217
177.00	Guy	31	4.641	0.0789	0.0512	39968
172.83	3' Side arm mount	31	4.598	0.0835	0.0502	54798
171.00	30" Omni Whip	31	4.579	0.0851	0.0498	41078
164.00	8' Yagi	31	4.493	0.0886	0.0489	20991
161.00	6' Grid Dish	31	4.448	0.0908	0.0484	17710
152.00	13' Yagi	31	4.275	0.1131	0.0564	15285
144.00	13' Yagi	31	4.068	0.1364	0.0670	14329
140.00	8' Yagi	31	3.945	0.1444	0.0698	16188
136.00	8' Yagi	31	3.809	0.1487	0.0702	40504
133.50	8' Yagi	31	3.722	0.1496	0.0693	52606
130.00	15' Yagi	31	3.600	0.1488	0.0670	26421
117.00	Guy	31	3.170	0.1309	0.0559	7876
111.00	15' Yagi	31	3.017	0.1230	0.0641	79299
104.00	15' Yagi	31	2.842	0.1203	0.0775	33055
101.00	39" x 19" x 8" Panel w/ Mount Pipe	31	2.770	0.1202	0.0912	44374
59.33	Guy	31	1.646	0.1239	0.1926	38847

Maximum Tower Deflections - Design Wind

Section No.	Elevation	Horz. Deflection	Gov. Load	Tilt	Twist
	<i>ft</i>	<i>in</i>	<i>Comb.</i>	°	°
T1	250 - 240	24.013	6	0.9477	0.4627
T2	240 - 220	25.872	6	0.9597	0.4008
T3	220 - 200	29.892	6	0.7863	0.3818
T4	200 - 180	32.343	6	0.3784	0.3718
T5	180 - 160	31.828	6	0.3869	0.1948
T6	160 - 140	30.087	6	0.5721	0.2430
T7	140 - 130	26.951	6	0.8509	0.2956
T8	130 - 120	24.848	6	0.9180	0.2473
T9	120 - 117	22.823	6	0.8898	0.2087
T10	117 - 114.67	22.210	6	0.8682	0.2000
T11	114.67 - 112.33	21.795	6	0.8538	0.2008
T12	112.33 - 110	21.390	6	0.8461	0.2077
T13	110 - 107.67	20.982	6	0.8415	0.2226
T14	107.67 - 105.33	20.578	6	0.8387	0.2393
T15	105.33 - 103	20.172	6	0.8379	0.2557
T16	103 - 100	19.765	6	0.8386	0.2704
T17	100 - 80	19.260	6	0.8414	0.3350
T18	80 - 60	15.660	6	0.8867	0.5075
T19	60 - 40	11.811	6	0.8889	0.6566
T20	40 - 20	8.138	6	0.8992	0.7223
T21	20 - 5	4.239	6	0.9744	0.6991
T22	5 - 0	1.072	6	1.0162	0.6357

Critical Deflections and Radius of Curvature - Design Wind

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Elevation	Appurtenance	Gov. Load	Deflection	Tilt	Twist	Radius of Curvature
<i>ft</i>		<i>Load Comb.</i>	<i>in</i>	<i>°</i>	<i>°</i>	<i>ft</i>
250.00	5/8"x4" Lightning Rod	6	24.013	0.9477	0.4627	8296
245.00	13' Sector Frames (3)	6	24.924	0.9561	0.4288	8296
237.00	Guy	6	26.470	0.9574	0.3891	6662
230.00	(2) Side Arm RRU Mounts (3)	6	27.913	0.9277	0.3758	10973
226.00	Pired 10' Box Arm	6	28.732	0.8882	0.3754	5044
218.50	NHH-85B-R2M w/ Mount Pipe	6	30.161	0.7514	0.3844	2574
215.00	P4-57W-PXA	6	30.748	0.6580	0.3905	2154
198.00	RRUS 11E B12	6	32.411	0.3560	0.3578	1364
195.00	(3) AM-X-CD-17-65-00T-RET w/ Mount Pipe	6	32.447	0.3240	0.3312	1571
185.00	AIR 6419 B41 w/ Mount Pipe	6	32.136	0.2883	0.2195	3581
177.00	Guy	6	31.623	0.4306	0.1909	7399
172.83	3' Side arm mount	6	31.313	0.4736	0.1912	5639
171.00	30" Omni Whip	6	31.166	0.4877	0.1930	5078
164.00	8' Yagi	6	30.523	0.5349	0.2090	3679
161.00	6' Grid Dish	6	30.201	0.5620	0.2349	3323
152.00	13' Yagi	6	29.033	0.6709	0.2949	2919
144.00	13' Yagi	6	27.715	0.7977	0.3088	2703
140.00	8' Yagi	6	26.951	0.8509	0.2956	3054
136.00	8' Yagi	6	26.122	0.8895	0.2682	8048
133.50	8' Yagi	6	25.588	0.9058	0.2575	11706
130.00	15' Yagi	6	24.848	0.9180	0.2473	5744
117.00	Guy	6	22.210	0.8682	0.2000	2037
111.00	15' Yagi	6	21.157	0.8433	0.2157	21633
104.00	15' Yagi	6	19.939	0.8381	0.2616	8663
101.00	39" x 19" x 8" Panel w/ Mount Pipe	6	19.428	0.8402	0.3104	12846
59.33	Guy	6	11.685	0.8905	0.6624	10289

Bolt Design Data

Section No.	Elevation	Component Type	Bolt Grade	Bolt Size	Number Of Bolts	Maximum Load per Bolt	Allowable Load per Bolt	Ratio Load Allowable	Allowable Ratio	Criteria
	<i>ft</i>			<i>in</i>		<i>lb</i>	<i>lb</i>			
T1	250	Leg	A325X	0.5625	6	32.21	27956.80	0.001	✓	Bolt DS
T2	240	Leg	A325X	0.5625	6	1366.37	27956.80	0.049	✓	Bolt DS
T3	220	Leg	A325X	0.5625	6	7381.98	27956.80	0.264	✓	Bolt DS
T4	200	Leg	A325X	0.5625	6	8521.63	27956.80	0.305	✓	Bolt DS
T5	180	Leg	A325X	0.5625	6	6329.72	27956.80	0.226	✓	Bolt DS
T6	160	Leg	A325X	0.5625	6	9551.59	27956.80	0.342	✓	Bolt DS
T8	130	Leg	A325X	0.5625	12	8895.41	27956.80	0.318	✓	Bolt DS

Guy Design Data

Section No.	Elevation	Size	Initial Tension	Breaking Load	Actual T_u	Allowable ϕT_u	Required S.F.	Actual S.F.
	<i>ft</i>		<i>lb</i>	<i>lb</i>	<i>lb</i>	<i>lb</i>		

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Section No.	Elevation	Size	Initial Tension <i>T_b</i>	Breaking Load <i>P_b</i>	Actual <i>T_n</i>	Allowable <i>φT_n</i>	Required S.F.	Actual S.F.
T2	<i>f_p</i> 237.00 (A) (1022)	9/16 EHS	4200.00	35000.04	13484.80	21000.00	1.000	1.557 ✓
	237.00 (A) (1023)	9/16 EHS	4200.00	35000.04	12895.90	21000.00	1.000	1.628 ✓
	237.00 (B) (1016)	9/16 EHS	4200.00	35000.04	13220.10	21000.00	1.000	1.588 ✓
	237.00 (B) (1017)	9/16 EHS	4200.00	35000.04	13114.80	21000.00	1.000	1.601 ✓
	237.00 (C) (1010)	9/16 EHS	4200.00	35000.04	12503.00	21000.00	1.000	1.680 ✓
	237.00 (C) (1011)	9/16 EHS	4200.00	35000.04	13155.10	21000.00	1.000	1.596 ✓
	177.00 (A) (1040)	7/16 EHS	2288.00	20800.02	12813.80	12480.00	1.000	0.974 ✗
T5	177.00 (A) (1041)	7/16 EHS	2288.00	20800.02	12090.40	12480.00	1.000	1.032 ✓
	177.00 (B) (1034)	7/16 EHS	2288.00	20800.02	12839.90	12480.00	1.000	0.972 ✗
	177.00 (B) (1035)	7/16 EHS	2288.00	20800.02	12421.90	12480.00	1.000	1.005 ✓
	177.00 (C) (1028)	7/16 EHS	2288.00	20800.02	11725.30	12480.00	1.000	1.064 ✓
	177.00 (C) (1029)	7/16 EHS	2288.00	20800.02	12779.90	12480.00	1.000	0.977 ✗
	117.00 (A) (1058)	3/8 EHS	1386.00	15399.96	7838.46	9240.00	1.000	1.179 ✓
	117.00 (A) (1059)	3/8 EHS	1386.00	15399.96	8193.24	9240.00	1.000	1.128 ✓
T10	117.00 (B) (1052)	3/8 EHS	1386.00	15399.96	8262.53	9240.00	1.000	1.118 ✓
	117.00 (B) (1053)	3/8 EHS	1386.00	15399.96	8185.55	9240.00	1.000	1.129 ✓
	117.00 (C) (1046)	3/8 EHS	1386.00	15399.96	8137.05	9240.00	1.000	1.136 ✓
	117.00 (C) (1047)	3/8 EHS	1386.00	15399.96	8226.67	9240.00	1.000	1.123 ✓
	59.33 (A) (1066)	3/8 EHS	1848.00	15399.96	6767.32	9240.00	1.000	1.365 ✓
	59.33 (B) (1065)	3/8 EHS	1848.00	15399.96	7223.87	9240.00	1.000	1.279 ✓
	59.33 (C) (1064)	3/8 EHS	1848.00	15399.96	7240.10	9240.00	1.000	1.276 ✓

Section No.	Elevation	Size	L	L _n	K/l/r	A	P _w	φP _m	Ratio P_m φP_n			
T1	f	250 - 240	f	f	1.5 SR	10.00	2.17	69.3	1.7672	-6085.81	55954.90	0.109
					K=1.00							✓

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Section No.	Elevation ft	Size	L ft	L _w ft	K/I ¹	A in ²	P _n lb	ΦP _n lb	Ratio P _n / ΦP _n
T2	240 - 220	1.5 SR	20.00	2.33	74.7 K=1.00	1.7672	-41724.00	52899.40	0.789 ✓
T3	220 - 200	1.5 SR	20.00	1.17	33.6 K=0.90	1.7672	-51142.10	73221.00	0.698 ✓
T4	200 - 180	1.5 SR	20.00	1.17	33.6 K=0.90	1.7672	-52449.30	73221.00	0.716 ✓
T5	180 - 160	1.5 SR	20.00	1.17	33.6 K=0.90	1.7672	-56835.40	73221.00	0.776 ✓
T6	160 - 140	1.5 SR	20.00	1.17	33.6 K=0.90	1.7672	-57862.10	73221.00	0.790 ✓
T7	140 - 130	1.5 SR	10.00	1.16	37.0 K=1.00	1.7672	-54496.20	71947.10	0.757 ✓
T8	130 - 120	1.5" SR w/ P2-XX Half Pipe	10.00	1.16	29.6 K=1.00	3.0951	-54752.00	130615.00	0.419 ✓
T9	120 - 117	1.5" SR w/ P2-XX Half Pipe	3.00	1.17	29.9 K=1.00	3.0951	-61049.10	130463.00	0.468 ✓
T10	117 - 114.67	1.5" SR w/ P2-XX Half Pipe	2.33	1.16	29.9 K=1.00	3.0951	-59488.90	130487.00	0.456 ✓
T11	114.67 - 112.33	1.5" SR w/ P2-XX Half Pipe	2.34	1.17	30.0 K=1.00	3.0951	-60933.30	130414.00	0.467 ✓
T12	112.33 - 110	1.5" SR w/ P2-XX Half Pipe	2.33	1.16	29.9 K=1.00	3.0951	-62093.00	130487.00	0.476 ✓
T13	110 - 107.67	1.5" SR w/ P2-XX Half Pipe	2.33	2.33	59.7 K=1.00	3.0951	-61537.30	107303.00	0.573 ✓
T14	107.67 - 105.33	1.5" SR w/ P2-XX Half Pipe	2.34	2.34	60.0 K=1.00	3.0951	-63671.50	107063.00	0.595 ✓
T15	105.33 - 103	1.5" SR w/ P2-XX Half Pipe	2.33	2.33	59.7 K=1.00	3.0951	-62391.60	107303.00	0.581 ✓
T16	103 - 100	1.5" SR w/ P2-XX Half Pipe	3.00	2.33	59.8 K=1.00	3.0951	-61361.40	107223.00	0.572 ✓
T17	100 - 80	1.5" SR w/ P2-XX Half Pipe	20.00	2.33	59.8 K=1.00	3.0951	-66677.40	107223.00	0.622 ✓
T18	80 - 60	1.5" SR w/ P2-XX Half Pipe	20.00	2.33	59.8 K=1.00	3.0951	-68006.10	107223.00	0.634 ✓
T19	60 - 40	1.5" SR w/ P2-XX Half Pipe	20.00	2.33	59.8 K=1.00	3.0951	-72340.60	107223.00	0.675 ✓
T20	40 - 20	1.5" SR w/ P2-XX Half Pipe	20.00	2.33	59.8 K=1.00	3.0951	-75715.00	107223.00	0.706 ✓
T21	20 - 5	1.5" SR w/ P2-XX Half Pipe	15.00	2.39	61.2 K=1.00	3.0951	-76134.90	105880.00	0.719 ✓
T22	5 - 0	1.5" SR w/ P2-XX Half Pipe	5.29	2.46	63.0 K=1.00	3.0951	-80502.40	104181.00	0.773 ✓

¹ P_n / ΦP_n controls

Diagonal Design Data (Compression)

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Section No.	Elevation <i>ft</i>	Size	L <i>ft</i>	L _u <i>ft</i>	K/I ¹ / _r	A <i>in</i> ²	P _n <i>lb</i>	φP _n <i>lb</i>	Ratio $\frac{P_n}{\phi P_n}$
T1	250 - 240	0.75 SR	3.70	3.55	85.0 K=0.37	0.4418	-2397.57	11724.20	0.204 ¹ ✓
T2	240 - 220	0.75 SR	3.80	3.64	84.6 K=0.36	0.4418	-5026.20	11780.10	0.427 ¹ ✓
T3	220 - 200	0.75 SR	3.80	3.64	84.6 K=0.36	0.4418	-2219.94	11780.10	0.188 ¹ ✓
T4	200 - 180	0.75 SR	3.80	3.64	84.6 K=0.36	0.4418	-5873.57	11780.10	0.499 ¹ ✓
T5	180 - 160	0.75 SR	3.80	3.64	84.6 K=0.36	0.4418	-4488.13	11780.10	0.381 ¹ ✓
T6	160 - 140	0.75 SR	3.80	3.64	84.6 K=0.36	0.4418	-2315.12	11780.10	0.197 ¹ ✓
T7	140 - 130	0.75 SR	3.79	3.63	84.7 K=0.36	0.4418	-2481.31	11771.90	0.211 ¹ ✓
T8	130 - 120	0.75 SR	3.79	3.54	85.0 K=0.38	0.4418	-3836.37	11720.20	0.327 ¹ ✓
T9	120 - 117	0.75 SR	3.80	3.55	85.0 K=0.37	0.4418	-1157.47	11725.80	0.099 ¹ ✓
T10	117 - 114.67	0.75 SR	3.80	3.55	85.0 K=0.37	0.4418	-3049.87	11724.90	0.260 ¹ ✓
T11	114.67 - 112.33	0.75 SR	3.80	3.55	85.0 K=0.37	0.4418	-2705.85	11727.70	0.231 ¹ ✓
T12	112.33 - 110	0.75 SR	3.80	3.55	85.0 K=0.37	0.4418	-1722.67	11724.90	0.147 ¹ ✓
T13	110 - 107.67	0.75 SR	3.80	3.55	85.0 K=0.37	0.4418	-2446.00	11724.90	0.209 ¹ ✓
T14	107.67 - 105.33	0.75 SR	3.80	3.55	85.0 K=0.37	0.4418	-2220.04	11727.70	0.189 ¹ ✓
T15	105.33 - 103	0.75 SR	3.80	3.55	85.0 K=0.37	0.4418	-1961.90	11724.90	0.167 ¹ ✓
T16	103 - 100	0.75 SR	3.80	3.55	85.0 K=0.37	0.4418	-2573.90	11725.80	0.220 ¹ ✓
T17	100 - 80	0.75 SR	3.80	3.55	85.0 K=0.37	0.4418	-2442.06	11725.80	0.208 ¹ ✓
T18	80 - 60	0.5625 SR	3.80	3.55	106.0 K=0.35	0.2485	-2483.31	4455.35	0.557 ¹ ✓
T19	60 - 40	0.5625 SR	3.80	3.55	106.0 K=0.35	0.2485	-1951.21	4455.35	0.438 ¹ ✓
T20	40 - 20	0.5625 SR	3.80	3.55	106.0 K=0.35	0.2485	-1740.09	4455.35	0.391 ¹ ✓
T21	20 - 5	0.5625 SR	3.83	3.58	107.0 K=0.35	0.2485	-1865.55	4407.72	0.423 ¹ ✓
T22	5 - 0	0.5625 SR	2.53	2.02	82.2 K=0.48	0.2485	-5158.78	5639.65	0.915 ¹ ✓

¹ P_n / φP_n controls

Horizontal Design Data (Compression)

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Section No.	Elevation <i>f_f</i>	Size	L <i>f_f</i>	L _m <i>f_f</i>	Kl/r	A <i>in</i> ²	P _u <i>lb</i>	φP _u <i>lb</i>	Ratio $\frac{P_u}{\phi P_u}$
T1	250 - 240	0.75 SR	3.00	2.88	128.8 K=0.70	0.4418	-252.72	6016.18	0.0421 ✓
T2	240 - 220	0.75 SR	3.00	2.88	128.8 K=0.70	0.4418	-4169.46	6016.18	0.6931 ✓

¹ P_u / φP_u controls

Secondary Horizontal Design Data (Compression)

Section No.	Elevation <i>f_f</i>	Size	L <i>f_f</i>	L _m <i>f_f</i>	Kl/r	A <i>in</i> ²	P _u <i>lb</i>	φP _u <i>lb</i>	Ratio $\frac{P_u}{\phi P_u}$
T1	250 - 240	0.75 SR	1.50	1.44	83.7 K=0.91	0.4418	-0.08	11908.10	0.0001 ✓
T2	240 - 220	0.75 SR	1.50	1.44	83.7 K=0.91	0.4418	-0.08	11908.10	0.0001 ✓
T3	220 - 200	0.75 SR	3.00	2.88	128.8 K=0.70	0.4418	-885.81	6016.18	0.1471 ✓
T4	200 - 180	0.75 SR	3.00	2.88	128.8 K=0.70	0.4418	-908.45	6016.18	0.1511 ✓
T5	180 - 160	0.75 SR	3.00	2.88	128.8 K=0.70	0.4418	-992.33	6016.18	0.1651 ✓
T6	160 - 140	0.75 SR	3.00	2.88	128.8 K=0.70	0.4418	-1002.20	6016.18	0.1671 ✓
T7	140 - 130	0.75 SR	3.00	2.88	128.8 K=0.70	0.4418	-964.93	6016.18	0.1601 ✓
T8	130 - 120	0.75 SR	3.00	2.80	125.5 K=0.70	0.4418	-980.95	6333.36	0.1551 ✓
T9	120 - 117	0.75 SR	3.00	2.80	125.5 K=0.70	0.4418	-1057.40	6333.36	0.1671 ✓
T10	117 - 114.67	0.75 SR	3.00	2.80	125.5 K=0.70	0.4418	-1030.38	6333.36	0.1631 ✓
T11	114.67 - 112.33	0.75 SR	3.00	2.80	125.5 K=0.70	0.4418	-1055.40	6333.36	0.1671 ✓
T12	112.33 - 110	0.75 SR	3.00	2.80	125.5 K=0.70	0.4418	-1075.48	6333.36	0.1701 ✓
T13	110 - 107.67	0.75 SR	1.50	1.40	83.2 K=0.93	0.4418	-0.03	11988.80	0.0001 ✓
T14	107.67 - 105.33	0.75 SR	1.50	1.40	83.2 K=0.93	0.4418	-0.03	11988.80	0.0001 ✓
T15	105.33 - 103	0.75 SR	1.50	1.40	83.2 K=0.93	0.4418	-0.03	11988.80	0.0001 ✓
T16	103 - 100	0.75 SR	1.50	1.40	83.2 K=0.93	0.4418	-0.03	11988.80	0.0001 ✓
T17	100 - 80	0.75 SR	1.50	1.40	83.2 K=0.93	0.4418	-0.03	11988.80	0.0001 ✓
T18	80 - 60	0.75 SR	1.50	1.40	83.2 K=0.93	0.4418	-0.03	11988.80	0.0001 ✓
T19	60 - 40	0.75 SR	1.50	1.40	83.2 K=0.93	0.4418	-0.03	11988.80	0.0001 ✓

inxTower

POD Group
1033 E Turkeyfoot Lake Rd. Suite 206
Green OH- 44312
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Section No.	Elevation f_t	Size	L f_t	L_u f_t	K/r	A in^2	P_u lb	ϕP_u lb	Ratio $\frac{P_u}{\phi P_u}$
T20	40 - 20	0.75 SR	1.50	1.40	83.2 K=0.93	0.4418	-0.03	11988.80	0.000 ¹ ✓
T21	20 - 5	0.75 SR	1.50	1.40	83.2 K=0.93	0.4418	-0.03	11988.80	0.000 ¹ ✓

¹ P_u / ϕP_u controls

Top Girt Design Data (Compression)

Section No.	Elevation f_t	Size	L f_t	L_u f_t	K/r	A in^2	P_u lb	ϕP_u lb	Ratio $\frac{P_u}{\phi P_u}$
T1	250 - 240	0.75 SR	3.00	2.88	128.8 K=0.70	0.4418	-141.95	6016.18	0.024 ¹ ✓
T3	220 - 200	0.75 SR	3.00	2.88	128.8 K=0.70	0.4418	-1051.14	6016.18	0.175 ¹ ✓
T4	200 - 180	0.75 SR	3.00	2.88	128.8 K=0.70	0.4418	-908.45	6016.18	0.151 ¹ ✓
T6	160 - 140	0.75 SR	3.00	2.88	128.8 K=0.70	0.4418	-1002.20	6016.18	0.167 ¹ ✓
T7	140 - 130	0.75 SR	3.00	2.88	128.8 K=0.70	0.4418	-964.93	6016.18	0.160 ¹ ✓
T8	130 - 120	0.75 SR	3.00	2.80	125.5 K=0.70	0.4418	-980.95	6333.36	0.155 ¹ ✓
T13	110 - 107.67	0.75 SR	3.00	2.80	125.5 K=0.70	0.4418	-1075.48	6333.36	0.170 ¹ ✓
T16	103 - 100	0.75 SR	3.00	2.80	125.5 K=0.70	0.4418	-1111.30	6333.36	0.175 ¹ ✓
T17	100 - 80	0.75 SR	3.00	2.80	125.5 K=0.70	0.4418	-1154.89	6333.36	0.182 ¹ ✓
T18	80 - 60	0.75 SR	3.00	2.80	125.5 K=0.70	0.4418	-1204.50	6333.36	0.190 ¹ ✓
T20	40 - 20	0.75 SR	3.00	2.80	125.5 K=0.70	0.4418	-1311.42	6333.36	0.207 ¹ ✓
T21	20 - 5	0.75 SR	3.00	2.80	125.5 K=0.70	0.4418	-1318.70	6333.36	0.208 ¹ ✓
T22	5 - 0	0.75 SR	3.00	2.80	125.5 K=0.70	0.4418	-1453.98	6333.36	0.230 ¹ ✓

¹ P_u / ϕP_u controls

Bottom Girt Design Data (Compression)

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Section No.	Elevation f_n	Size	L f_n	L_u f_n	Kl/r	A in^2	P_u lb	ϕP_u lb	Ratio $\frac{P_u}{\phi P_u}$
T1	250 - 240	0.75 SR	3.00	2.88	128.8 K=0.70	0.4418	-1070.20	6016.18	0.178 ¹
T2	240 - 220	0.75 SR	3.00	2.88	128.8 K=0.70	0.4418	-1332.57	6016.18	0.221 ¹
T3	220 - 200	0.75 SR	3.00	2.88	128.8 K=0.70	0.4418	-885.81	6016.18	0.147 ¹
T4	200 - 180	0.75 SR	3.00	2.88	128.8 K=0.70	0.4418	-2645.37	6016.18	0.440 ¹
T5	180 - 160	0.75 SR	3.00	2.88	128.8 K=0.70	0.4418	-992.33	6016.18	0.165 ¹
T6	160 - 140	0.75 SR	3.00	2.88	128.8 K=0.70	0.4418	-1036.88	6016.18	0.172 ¹
T8	130 - 120	0.75 SR	3.00	2.80	125.5 K=0.70	0.4418	-2113.25	6333.36	0.334 ¹
T16	103 - 100	0.75 SR	3.00	2.80	125.5 K=0.70	0.4418	-1111.30	6333.36	0.175 ¹
T17	100 - 80	0.75 SR	3.00	2.80	125.5 K=0.70	0.4418	-1154.89	6333.36	0.182 ¹
T18	80 - 60	0.75 SR	3.00	2.80	125.5 K=0.70	0.4418	-1204.50	6333.36	0.190 ¹
T19	60 - 40	0.75 SR	3.00	2.80	125.5 K=0.70	0.4418	-1263.60	6333.36	0.200 ¹
T20	40 - 20	0.75 SR	3.00	2.80	125.5 K=0.70	0.4418	-1311.42	6333.36	0.207 ¹
T22	5 - 0	0.75 SR	0.21	0.01	0.9 K=1.00	0.4418	-1453.98	19879.10	0.073 ¹

¹ P_u / ϕP_u controls

Mid Girt Design Data (Compression)

Section No.	Elevation f_n	Size	L f_n	L_u f_n	Kl/r	A in^2	P_u lb	ϕP_u lb	Ratio $\frac{P_u}{\phi P_u}$
T2	240 - 220	0.75 SR	3.00	2.88	128.8 K=0.70	0.4418	-1145.03	6016.18	0.190 ¹
T3	220 - 200	0.75 SR	3.00	2.88	128.8 K=0.70	0.4418	-20.93	6016.18	0.003 ¹
T4	200 - 180	0.75 SR	3.00	2.88	128.8 K=0.70	0.4418	-171.84	6016.18	0.029 ¹
T5	180 - 160	0.75 SR	3.00	2.88	128.8 K=0.70	0.4418	-1310.17	6016.18	0.218 ¹
T6	160 - 140	0.75 SR	3.00	2.88	128.8 K=0.70	0.4418	-34.59	6016.18	0.006 ¹

¹ P_u / ϕP_u controls

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Top Guy Pull-Off Design Data (Compression)

Section No.	Elevation	Size	L	L _u	Kl/r	A	P _u	φP _u	Ratio $\frac{P_u}{\phi P_u}$
	ft		ft	ft		in ²	lb	lb	
T2	240 - 220 (1014)	(2) 7/8" SR	3.00	2.88	120.5 K=0.76	1.2026	-7806.08	18717.10	0.417 ✓
T5	180 - 160 (1015)	(2) 7/8" SR	3.00	2.88	120.5 K=0.76	1.2026	-7679.06	18717.10	0.410 ✓
T9	120 - 117 (1020)	(2) 7/8" SR	3.00	2.80	117.4 K=0.76	1.2026	-5512.13	19703.90	0.280 ✓
T19	60 - 40 (1021)	0.75 SR	3.00	2.80	179.3 K=1.00	0.4418	-267.71	3103.35	0.086 ✓

¹ P_u / φP_u controls

Torque-Arm Top Design Data

Section No.	Elevation	Size	L	L _u	Kl/r	A	P _u	φP _u	Ratio $\frac{P_u}{\phi P_u}$
	ft		ft	ft		in ²	lb	lb	
T10	117 - 114.67 (1048)	2L3x3x5/16x3/8	6.67	6.67	86.8 K=1.00	3.5500	-985.13	97425.40	0.010 ✓
T10	117 - 114.67 (1049)	2L3x3x5/16x3/8	6.67	6.67	86.8 K=1.00	3.5500	-608.32	97425.40	0.006 ✓
T10	117 - 114.67 (1054)	2L3x3x5/16x3/8	6.67	6.67	86.8 K=1.00	3.5500	-1716.15	97425.40	0.018 ✓
T10	117 - 114.67 (1055)	2L3x3x5/16x3/8	6.67	6.67	86.8 K=1.00	3.5500	-1543.64	97425.40	0.016 ✓
T10	117 - 114.67 (1060)	2L3x3x5/16x3/8	6.67	6.67	86.8 K=1.00	3.5500	-1447.64	97425.40	0.015 ✓
T10	117 - 114.67 (1061)	2L3x3x5/16x3/8	6.67	6.67	86.8 K=1.00	3.5500	-1016.44	97425.40	0.010 ✓

¹ P_u / φP_u controls

Torque-Arm Bottom Design Data

Section No.	Elevation	Size	L	L _u	Kl/r	A	P _u	φP _u	Ratio $\frac{P_u}{\phi P_u}$
	ft		ft	ft		in ²	lb	lb	
T2	240 - 220 (1014)	2L3x3x5/16x3/8	6.67	6.60	85.9 K=1.00	3.5500	-15500.10	97678.90	0.159 ✓
T2	240 - 220 (1015)	2L3x3x5/16x3/8	6.67	6.60	85.9 K=1.00	3.5500	-13584.30	97678.90	0.139 ✓
T2	240 - 220 (1020)	2L3x3x5/16x3/8	6.67	6.60	85.9 K=1.00	3.5500	-13593.00	97678.90	0.139 ✓
T2	240 - 220 (1021)	2L3x3x5/16x3/8	6.67	6.60	85.9 K=1.00	3.5500	-13488.90	97678.90	0.138 ✓

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Section No.	Elevation <i>ft</i>	Size	L <i>ft</i>	L _u <i>ft</i>	K/l/r	A <i>in</i> ²	P _u <i>lb</i>	φP _u <i>lb</i>	Ratio $\frac{P_u}{\phi P_u}$
T2	240 - 220 (1026)	2L3x3x5/16x3/8	6.67	6.60	85.9 K=1.00	3.5500	-15672.90	97678.90	0.160 ¹
T2	240 - 220 (1027)	2L3x3x5/16x3/8	6.67	6.60	85.9 K=1.00	3.5500	-13601.30	97678.90	0.139 ¹
T5	180 - 160 (1032)	2L3x3x5/16x3/8	6.67	6.60	85.9 K=1.00	3.5500	-12510.40	97678.90	0.128 ¹
T5	180 - 160 (1033)	2L3x3x5/16x3/8	6.67	6.60	85.9 K=1.00	3.5500	-13118.60	97678.90	0.134 ¹
T5	180 - 160 (1038)	2L3x3x5/16x3/8	6.67	6.60	85.9 K=1.00	3.5500	-13881.40	97678.90	0.142 ¹
T5	180 - 160 (1039)	2L3x3x5/16x3/8	6.67	6.60	85.9 K=1.00	3.5500	-13743.80	97678.90	0.141 ¹
T5	180 - 160 (1044)	2L3x3x5/16x3/8	6.67	6.60	85.9 K=1.00	3.5500	-13424.20	97678.90	0.137 ¹
T5	180 - 160 (1045)	2L3x3x5/16x3/8	6.67	6.60	85.9 K=1.00	3.5500	-14005.30	97678.90	0.143 ¹
T10	117 - 114.67 (1050)	2L3x3x5/16x3/8	6.67	6.56	85.4 K=1.00	3.5500	-7529.37	97829.90	0.077 ¹
T10	117 - 114.67 (1051)	2L3x3x5/16x3/8	6.67	6.56	85.4 K=1.00	3.5500	-7869.00	97829.90	0.080 ¹
T10	117 - 114.67 (1056)	2L3x3x5/16x3/8	6.67	6.56	85.4 K=1.00	3.5500	-8713.71	97829.90	0.089 ¹
T10	117 - 114.67 (1057)	2L3x3x5/16x3/8	6.67	6.56	85.4 K=1.00	3.5500	-8825.49	97829.90	0.090 ¹
T10	117 - 114.67 (1062)	2L3x3x5/16x3/8	6.67	6.56	85.4 K=1.00	3.5500	-7850.52	97829.90	0.080 ¹
T10	117 - 114.67 (1063)	2L3x3x5/16x3/8	6.67	6.56	85.4 K=1.00	3.5500	-8378.14	97829.90	0.086 ¹

¹ P_u / φP_u controls

Tension Checks

Leg Design Data (Tension)

Section No.	Elevation <i>ft</i>	Size	L <i>ft</i>	L _u <i>ft</i>	K/l/r	A <i>in</i> ²	P _u <i>lb</i>	φP _u <i>lb</i>	Ratio $\frac{P_u}{\phi P_u}$
T1	250 - 240	1.5 SR	10.00	0.67	21.3	1.7672	6129.39	79521.60	0.077 ¹
T2	240 - 220	1.5 SR	20.00	0.67	21.3	1.7672	18783.40	79521.60	0.236 ¹
T3	220 - 200	1.5 SR	20.00	0.67	21.3	0.7732	18780.50	37695.20	0.498 ¹
T4	200 - 180	1.5 SR	20.00	0.67	21.3	0.7732	29664.30	37695.20	0.787 ¹

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$P_u / \phi P_n$ controls

Diagonal Design Data (Tension)

Section No.	Elevation f_t	Size	L f_t	L_u f_t	K/I/r	A in^2	P_u lb	ϕP_n lb	Ratio $\frac{P_u}{\phi P_n}$
T1	250 - 240	0.75 SR	3.70	3.55	227.0	0.4418	2416.32	19880.40	0.1221 ✓
T2	240 - 220	0.75 SR	3.80	3.64	233.1	0.4418	4386.28	19880.40	0.2211 ✓
T3	220 - 200	0.75 SR	3.80	3.64	233.1	0.4418	1751.13	19880.40	0.0881 ✓
T4	200 - 180	0.75 SR	3.80	3.64	233.1	0.4418	5698.88	19880.40	0.2871 ✓
T5	180 - 160	0.75 SR	3.80	3.64	233.1	0.4418	2230.57	19880.40	0.1121 ✓
T6	160 - 140	0.75 SR	3.80	3.64	233.1	0.4418	1877.75	19880.40	0.0941 ✓
T7	140 - 130	0.75 SR	3.79	3.63	232.3	0.4418	2070.02	19880.40	0.1041 ✓
T8	130 - 120	0.75 SR	3.79	3.54	226.4	0.4418	3275.04	19880.40	0.1651 ✓
T9	120 - 117	0.75 SR	3.80	3.55	227.2	0.4418	1561.74	19880.40	0.0791 ✓
T10	117 - 114.67	0.75 SR	3.80	3.55	227.1	0.4418	1741.71	19880.40	0.0881 ✓
T11	114.67 - 112.33	0.75 SR	3.80	3.55	227.4	0.4418	1188.91	19880.40	0.0601 ✓
T12	112.33 - 110	0.75 SR	3.80	3.55	227.1	0.4418	2044.35	19880.40	0.1031 ✓
T13	110 - 107.67	0.75 SR	3.80	3.55	227.1	0.4418	675.41	19880.40	0.0341 ✓
T14	107.67 - 105.33	0.75 SR	3.80	3.55	227.4	0.4418	1702.80	19880.40	0.0861 ✓
T15	105.33 - 103	0.75 SR	3.80	3.55	227.1	0.4418	593.18	19880.40	0.0301 ✓
T16	103 - 100	0.75 SR	3.80	3.55	227.2	0.4418	384.01	19880.40	0.0191 ✓
T17	100 - 80	0.75 SR	3.80	3.55	227.2	0.4418	1054.68	19880.40	0.0531 ✓
T18	80 - 60	0.5625 SR	3.80	3.55	302.9	0.2485	1404.07	8051.56	0.1741 ✓
T19	60 - 40	0.5625 SR	3.80	3.55	302.9	0.2485	1084.35	8051.56	0.1351 ✓
T20	40 - 20	0.5625 SR	3.80	3.55	302.9	0.2485	436.82	8051.56	0.0541 ✓
T21	20 - 5	0.5625 SR	3.83	3.58	305.7	0.2485	959.16	8051.56	0.1191 ✓
T22	5 - 0	0.5625 SR	3.30	2.79	238.3	0.2485	737.73	8051.56	0.0921 ✓

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¹ P_u / ϕP_n controls

Horizontal Design Data (Tension)

Section No.	Elevation f_t	Size	L f_t	L_u f_t	Kl/r	A in^2	P_u lb	ϕP_n lb	Ratio $\frac{P_u}{\phi P_n}$
T1	250 - 240	0.75 SR	3.00	2.88	184.0	0.4418	354.02	19880.40	0.018 ✓
T2	240 - 220	0.75 SR	3.00	2.88	184.0	0.4418	2239.84	19880.40	0.113 ✓
T14	107.67 - 105.33	0.75 SR	3.00	2.80	179.3	0.4418	2802.02	19880.40	0.141 ✓
T15	105.33 - 103	0.75 SR	3.00	2.80	179.3	0.4418	2526.61	19880.40	0.127 ✓
T17	100 - 80	0.75 SR	3.00	2.80	179.3	0.4418	3081.97	19880.40	0.155 ✓
T18	80 - 60	0.75 SR	3.00	2.80	179.3	0.4418	2279.18	19880.40	0.115 ✓
T19	60 - 40	0.75 SR	3.00	2.80	179.3	0.4418	2360.80	19880.40	0.119 ✓
T20	40 - 20	0.75 SR	3.00	2.80	179.3	0.4418	2490.86	19880.40	0.125 ✓
T21	20 - 5	0.75 SR	3.00	2.80	179.3	0.4418	2477.15	19880.40	0.125 ✓

¹ P_u / ϕP_n controls

Secondary Horizontal Design Data (Tension)

Section No.	Elevation f_t	Size	L f_t	L_u f_t	Kl/r	A in^2	P_u lb	ϕP_n lb	Ratio $\frac{P_u}{\phi P_n}$
T1	250 - 240	0.75 SR	1.50	1.44	92.0	0.4418	0.07	19880.40	0.000 ✓
T2	240 - 220	0.75 SR	1.50	1.44	92.0	0.4418	0.07	19880.40	0.000 ✓
T3	220 - 200	0.75 SR	3.00	2.88	184.0	0.4418	885.81	19880.40	0.045 ✓
T4	200 - 180	0.75 SR	3.00	2.88	184.0	0.4418	908.45	19880.40	0.046 ✓
T5	180 - 160	0.75 SR	3.00	2.88	184.0	0.4418	992.33	19880.40	0.050 ✓
T6	160 - 140	0.75 SR	3.00	2.88	184.0	0.4418	1002.20	19880.40	0.050 ✓
T7	140 - 130	0.75 SR	3.00	2.88	184.0	0.4418	964.93	19880.40	0.049 ✓
T8	130 - 120	0.75 SR	3.00	2.80	179.3	0.4418	980.95	19880.40	0.049 ✓
T9	120 - 117	0.75 SR	3.00	2.80	179.3	0.4418	1057.40	19880.40	0.053 ✓

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Section No.	Elevation <i>ft</i>	Size	<i>L</i>	<i>L_u</i>	<i>KI/r</i>	<i>A</i>	<i>P_n</i>	ϕP_n	Ratio $\frac{P_n}{\phi P_n}$
			<i>ft</i>	<i>ft</i>		<i>in</i> ²	<i>lb</i>	<i>lb</i>	
T10	117 - 114.67	0.75 SR	3.00	2.80	179.3	0.4418	1030.38	19880.40	0.052 ¹ ✓
T11	114.67 - 112.33	0.75 SR	3.00	2.80	179.3	0.4418	1055.40	19880.40	0.053 ¹ ✓
T12	112.33 - 110	0.75 SR	3.00	2.80	179.3	0.4418	1075.48	19880.40	0.054 ¹ ✓
T13	110 - 107.67	0.75 SR	1.50	1.40	89.7	0.4418	0.03	19880.40	0.000 ¹ ✓
T14	107.67 - 105.33	0.75 SR	1.50	1.40	89.7	0.4418	0.03	19880.40	0.000 ¹ ✓
T15	105.33 - 103	0.75 SR	1.50	1.40	89.7	0.4418	0.03	19880.40	0.000 ¹ ✓
T16	103 - 100	0.75 SR	1.50	1.40	89.7	0.4418	0.03	19880.40	0.000 ¹ ✓
T17	100 - 80	0.75 SR	1.50	1.40	89.7	0.4418	0.03	19880.40	0.000 ¹ ✓
T18	80 - 60	0.75 SR	1.50	1.40	89.7	0.4418	0.03	19880.40	0.000 ¹ ✓
T19	60 - 40	0.75 SR	1.50	1.40	89.7	0.4418	0.03	19880.40	0.000 ¹ ✓
T20	40 - 20	0.75 SR	1.50	1.40	89.7	0.4418	0.03	19880.40	0.000 ¹ ✓
T21	20 - 5	0.75 SR	1.50	1.40	89.7	0.4418	0.03	19880.40	0.000 ¹ ✓

¹ $P_n / \phi P_n$ controls

Top Girt Design Data (Tension)

Section No.	Elevation <i>ft</i>	Size	<i>L</i>	<i>L_u</i>	<i>KI/r</i>	<i>A</i>	<i>P_n</i>	ϕP_n	Ratio $\frac{P_n}{\phi P_n}$
			<i>ft</i>	<i>ft</i>		<i>in</i> ²	<i>lb</i>	<i>lb</i>	
T1	250 - 240	0.75 SR	3.00	2.88	184.0	0.4418	141.95	19880.40	0.007 ¹ ✓
T3	220 - 200	0.75 SR	3.00	2.88	184.0	0.4418	1015.34	19880.40	0.051 ¹ ✓
T4	200 - 180	0.75 SR	3.00	2.88	184.0	0.4418	908.45	19880.40	0.046 ¹ ✓
T6	160 - 140	0.75 SR	3.00	2.88	184.0	0.4418	1002.20	19880.40	0.050 ¹ ✓
T7	140 - 130	0.75 SR	3.00	2.88	184.0	0.4418	1417.16	19880.40	0.071 ¹ ✓
T8	130 - 120	0.75 SR	3.00	2.80	179.3	0.4418	980.95	19880.40	0.049 ¹ ✓
T13	110 - 107.67	0.75 SR	3.00	2.80	179.3	0.4418	1332.30	19880.40	0.067 ¹ ✓
T16	103 - 100	0.75 SR	3.00	2.80	179.3	0.4418	2701.03	19880.40	0.136 ¹ ✓
T17	100 - 80	0.75 SR	3.00	2.80	179.3	0.4418	1501.96	19880.40	0.076 ¹ ✓

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Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u lb	φP _u lb	Ratio $\frac{P_u}{\phi P_u}$
T18	80 - 60	0.75 SR	3.00	2.80	179.3	0.4418	1204.50	19880.40	0.061 ✓
T20	40 - 20	0.75 SR	3.00	2.80	179.3	0.4418	1311.42	19880.40	0.066 ✓
T21	20 - 5	0.75 SR	3.00	2.80	179.3	0.4418	1318.70	19880.40	0.066 ✓
T22	5 - 0	0.75 SR	3.00	2.80	179.3	0.4418	14347.20	19880.40	0.722 ✓

¹ P_u / φP_u controls

Bottom Girt Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u lb	φP _u lb	Ratio $\frac{P_u}{\phi P_u}$
T1	250 - 240	0.75 SR	3.00	2.88	184.0	0.4418	1004.54	19880.40	0.051 ✓
T2	240 - 220	0.75 SR	3.00	2.88	184.0	0.4418	2110.90	19880.40	0.106 ✓
T3	220 - 200	0.75 SR	3.00	2.88	184.0	0.4418	885.81	19880.40	0.045 ✓
T4	200 - 180	0.75 SR	3.00	2.88	184.0	0.4418	3173.03	19880.40	0.160 ✓
T5	180 - 160	0.75 SR	3.00	2.88	184.0	0.4418	992.33	19880.40	0.050 ✓
T6	160 - 140	0.75 SR	3.00	2.88	184.0	0.4418	1088.50	19880.40	0.055 ✓
T8	130 - 120	0.75 SR	3.00	2.80	179.3	0.4418	2198.46	19880.40	0.111 ✓
T16	103 - 100	0.75 SR	3.00	2.80	179.3	0.4418	1662.59	19880.40	0.084 ✓
T17	100 - 80	0.75 SR	3.00	2.80	179.3	0.4418	1550.92	19880.40	0.078 ✓
T18	80 - 60	0.75 SR	3.00	2.80	179.3	0.4418	1354.35	19880.40	0.068 ✓
T19	60 - 40	0.75 SR	3.00	2.80	179.3	0.4418	1276.01	19880.40	0.064 ✓
T20	40 - 20	0.75 SR	3.00	2.80	179.3	0.4418	1311.42	19880.40	0.066 ✓
T22	5 - 0	0.75 SR	0.21	0.01	0.9	0.4418	2633.77	19880.40	0.132 ✓

¹ P_u / φP_u controls

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Mid Girt Design Data (Tension)

Section No.	Elevation <i>ft</i>	Size	<i>L</i> <i>ft</i>	<i>L_m</i> <i>ft</i>	<i>KI/r</i>	<i>A</i> <i>in²</i>	<i>P_n</i> <i>lb</i>	ϕP_n <i>lb</i>	Ratio $\frac{P_n}{\phi P_n}$
T2	240 - 220	0.75 SR	3.00	2.88	184.0	0.4418	1530.50	19880.40	0.077 ¹ ✓
T3	220 - 200	0.75 SR	3.00	2.88	184.0	0.4418	146.85	19880.40	0.007 ¹ ✓
T4	200 - 180	0.75 SR	3.00	2.88	184.0	0.4418	280.44	19880.40	0.014 ¹ ✓
T5	180 - 160	0.75 SR	3.00	2.88	184.0	0.4418	131.92	19880.40	0.007 ¹ ✓
T6	160 - 140	0.75 SR	3.00	2.88	184.0	0.4418	388.57	19880.40	0.020 ¹ ✓
T17	100 - 80	0.75 SR	3.00	2.80	179.3	0.4418	2519.57	19880.40	0.127 ¹ ✓
T18	80 - 60	0.75 SR	3.00	2.80	179.3	0.4418	1821.83	19880.40	0.092 ¹ ✓
T19	60 - 40	0.75 SR	3.00	2.80	179.3	0.4418	1934.93	19880.40	0.097 ¹ ✓
T20	40 - 20	0.75 SR	3.00	2.80	179.3	0.4418	2049.58	19880.40	0.103 ¹ ✓

¹ $P_n / \phi P_n$ controls

Top Guy Pull-Off Design Data (Tension)

Section No.	Elevation <i>ft</i>	Size	<i>L</i> <i>ft</i>	<i>L_m</i> <i>ft</i>	<i>KI/r</i>	<i>A</i> <i>in²</i>	<i>P_n</i> <i>lb</i>	ϕP_n <i>lb</i>	Ratio $\frac{P_n}{\phi P_n}$
T2	240 - 220	(2) 7/8" SR	3.00	2.88	157.8	1.2026	9966.30	54117.00	0.184 ¹ ✓
T5	180 - 160	(2) 7/8" SR	3.00	2.88	157.8	1.2026	10897.50	54117.00	0.201 ¹ ✓
T9	120 - 117	(2) 7/8" SR	3.00	2.80	153.8	1.2026	7782.04	54117.00	0.144 ¹ ✓
T19	60 - 40	0.75 SR	3.00	2.80	179.3	0.4418	4040.55	19880.40	0.203 ¹ ✓

¹ $P_n / \phi P_n$ controls

Torque-Arm Top Design Data

Section No.	Elevation <i>ft</i>	Size	<i>L</i> <i>ft</i>	<i>L_m</i> <i>ft</i>	<i>KI/r</i>	<i>A</i> <i>in²</i>	<i>P_n</i> <i>lb</i>	ϕP_n <i>lb</i>	Ratio $\frac{P_n}{\phi P_n}$
T2	240 - 220 (1012)	2L3x3x5/16x3/8	6.67	6.60	85.9	3.5500	15388.80	115020.00	0.134 ¹ ✓

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Section No.	Elevation <i>ft</i>	Size	L <i>ft</i>	L _n <i>ft</i>	K/I/r	A <i>in</i> ²	P _n <i>lb</i>	φP _n <i>lb</i>	Ratio $\frac{P_n}{\phi P_n}$
T2	240 - 220 (1013)	2L3x3x5/16x3/8	6.67	6.60	85.9	3.5500	12922.50	115020.00	0.112 ✓
T2	240 - 220 (1018)	2L3x3x5/16x3/8	6.67	6.60	85.9	3.5500	16432.10	115020.00	0.143 ✓
T2	240 - 220 (1019)	2L3x3x5/16x3/8	6.67	6.60	85.9	3.5500	16469.50	115020.00	0.143 ✓
T2	240 - 220 (1024)	2L3x3x5/16x3/8	6.67	6.60	85.9	3.5500	16805.00	115020.00	0.146 ✓
T2	240 - 220 (1025)	2L3x3x5/16x3/8	6.67	6.60	85.9	3.5500	14147.70	115020.00	0.123 ✓
T5	180 - 160 (1030)	2L3x3x5/16x3/8	6.67	6.60	85.9	3.5500	14571.10	115020.00	0.127 ✓
T5	180 - 160 (1031)	2L3x3x5/16x3/8	6.67	6.60	85.9	3.5500	14976.20	115020.00	0.130 ✓
T5	180 - 160 (1036)	2L3x3x5/16x3/8	6.67	6.60	85.9	3.5500	16364.70	115020.00	0.142 ✓
T5	180 - 160 (1037)	2L3x3x5/16x3/8	6.67	6.60	85.9	3.5500	16427.90	115020.00	0.143 ✓
T5	180 - 160 (1042)	2L3x3x5/16x3/8	6.67	6.60	85.9	3.5500	15914.40	115020.00	0.138 ✓
T10	117 - 114.67 (1043)	2L3x3x5/16x3/8	6.67	6.60	85.9	3.5500	15804.90	115020.00	0.137 ✓
T10	117 - 114.67 (1048)	2L3x3x5/16x3/8	6.67	6.67	86.8	3.5500	9959.13	115020.00	0.087 ✓
T10	117 - 114.67 (1049)	2L3x3x5/16x3/8	6.67	6.67	86.8	3.5500	10399.90	115020.00	0.090 ✓
T10	117 - 114.67 (1054)	2L3x3x5/16x3/8	6.67	6.67	86.8	3.5500	11361.90	115020.00	0.099 ✓
T10	117 - 114.67 (1055)	2L3x3x5/16x3/8	6.67	6.67	86.8	3.5500	11408.10	115020.00	0.099 ✓
T10	117 - 114.67 (1060)	2L3x3x5/16x3/8	6.67	6.67	86.8	3.5500	10656.50	115020.00	0.093 ✓
T10	117 - 114.67 (1061)	2L3x3x5/16x3/8	6.67	6.67	86.8	3.5500	10481.80	115020.00	0.091 ✓

¹ P_n / φP_n controls

Torque-Arm Bottom Design Data

Section No.	Elevation <i>ft</i>	Size	L <i>ft</i>	L _n <i>ft</i>	K/I/r	A <i>in</i> ²	P _n <i>lb</i>	φP _n <i>lb</i>	Ratio $\frac{P_n}{\phi P_n}$
T2	240 - 220 (1015)	2L3x3x5/16x3/8	6.67	6.60	85.9	3.5500	456.03	115020.00	0.004 ✓
T2	240 - 220 (1027)	2L3x3x5/16x3/8	6.67	6.60	85.9	3.5500	248.62	115020.00	0.002 ✓
T5	180 - 160 (1032)	2L3x3x5/16x3/8	6.67	6.60	85.9	3.5500	358.26	115020.00	0.003 ✓
T5	180 - 160 (1033)	2L3x3x5/16x3/8	6.67	6.60	85.9	3.5500	437.37	115020.00	0.004 ✓

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POD Group

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Section No.	Elevation f_t	Size	L f_t	L_u f_t	Kl/r	A in^2	P_u lb	ϕP_u lb	Ratio $\frac{P_u}{\phi P_u}$
T5	180 - 160 (1038)	2L3x3x5/16x3/8	6.67	6.60	85.9	3.5500	845.68	115020.00	0.007
T5	180 - 160 (1039)	2L3x3x5/16x3/8	6.67	6.60	85.9	3.5500	828.86	115020.00	0.007
T5	180 - 160 (1044)	2L3x3x5/16x3/8	6.67	6.60	85.9	3.5500	626.58	115020.00	0.005
T5	180 - 160 (1045)	2L3x3x5/16x3/8	6.67	6.60	85.9	3.5500	733.75	115020.00	0.006
T10	117 - 114.67 (1050)	2L3x3x5/16x3/8	6.67	6.56	85.4	3.5500	1733.01	115020.00	0.015
T10	117 - 114.67 (1051)	2L3x3x5/16x3/8	6.67	6.56	85.4	3.5500	1737.31	115020.00	0.015
T10	117 - 114.67 (1056)	2L3x3x5/16x3/8	6.67	6.56	85.4	3.5500	2234.99	115020.00	0.019
T10	117 - 114.67 (1057)	2L3x3x5/16x3/8	6.67	6.56	85.4	3.5500	2269.64	115020.00	0.020
T10	117 - 114.67 (1062)	2L3x3x5/16x3/8	6.67	6.56	85.4	3.5500	1776.33	115020.00	0.015
T10	117 - 114.67 (1063)	2L3x3x5/16x3/8	6.67	6.56	85.4	3.5500	1791.83	115020.00	0.016

¹ P_u / ϕP_u controls

Section Capacity Table

Section No.	Elevation f_t	Component Type	Size	Critical Element	P lb	ϕP_{allow} lb	% Capacity	Pass Fail
T1	250 - 240	Leg	1.5 SR	3	-6085.81	55954.90	10.9	Pass
T2	240 - 220	Leg	1.5 SR	43	-41724.00	52899.40	78.9	Pass
T3	220 - 200	Leg	1.5 SR	117	-51142.10	73221.00	69.8	Pass
T4	200 - 180	Leg	1.5 SR	200	29664.30	37695.20	78.7	Pass
T5	180 - 160	Leg	1.5 SR	285	-56835.40	73221.00	77.6	Pass
T6	160 - 140	Leg	1.5 SR	369	-57862.10	73221.00	79.0	Pass
T7	140 - 130	Leg	1.5 SR	453	-54496.20	71947.10	75.7	Pass
T8	130 - 120	Leg	1.5" SR w/ P2-XX Half Pipe	494	-54752.00	130615.00	41.9	Pass
T9	120 - 117	Leg	1.5" SR w/ P2-XX Half Pipe	539	-61049.10	130463.00	46.8	Pass
T10	117 - 114.67	Leg	1.5" SR w/ P2-XX Half Pipe	555	-59488.90	130487.00	45.6	Pass
T11	114.67 - 112.33	Leg	1.5" SR w/ P2-XX Half Pipe	567	-60933.30	130414.00	46.7	Pass
T12	112.33 - 110	Leg	1.5" SR w/ P2-XX Half Pipe	579	-62093.00	130487.00	47.6	Pass
T13	110 - 107.67	Leg	1.5" SR w/ P2-XX Half Pipe	591	-61537.30	107303.00	57.3	Pass
T14	107.67 - 105.33	Leg	1.5" SR w/ P2-XX Half Pipe	604	-63671.50	107063.00	59.5	Pass
T15	105.33 - 103	Leg	1.5" SR w/ P2-XX Half Pipe	615	-62391.60	107303.00	58.1	Pass
T16	103 - 100	Leg	1.5" SR w/ P2-XX Half Pipe	626	-61361.40	107223.00	57.2	Pass
T17	100 - 80	Leg	1.5" SR w/ P2-XX Half Pipe	642	-66677.40	107223.00	62.2	Pass
T18	80 - 60	Leg	1.5" SR w/ P2-XX Half Pipe	716	-68006.10	107223.00	63.4	Pass
T19	60 - 40	Leg	1.5" SR w/ P2-XX Half Pipe	790	-72340.60	107223.00	67.5	Pass
T20	40 - 20	Leg	1.5" SR w/ P2-XX Half Pipe	864	-75715.00	107223.00	70.6	Pass
T21	20 - 5	Leg	1.5" SR w/ P2-XX Half Pipe	938	-76134.90	105880.00	71.9	Pass
T22	5 - 0	Leg	1.5" SR w/ P2-XX Half Pipe	991	-80502.40	104181.00	77.3	Pass
T1	250 - 240	Diagonal	0.75 SR	14	-2397.57	11724.20	20.4	Pass
T2	240 - 220	Diagonal	0.75 SR	104	-5026.20	11780.10	42.7	Pass

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Section No.	Elevation ft	Component Type	Size	Critical Element	P lb	σ_{allow} lb	% Capacity	Pass Fail
T3	220 - 200	Diagonal	0.75 SR	190	-2219.94	11780.10	18.8	Pass
T4	200 - 180	Diagonal	0.75 SR	212	-5873.57	11780.10	49.9	Pass
T5	180 - 160	Diagonal	0.75 SR	350	-4488.13	11780.10	38.1	Pass
T6	160 - 140	Diagonal	0.75 SR	381	-2315.12	11780.10	19.7	Pass
T7	140 - 130	Diagonal	0.75 SR	486	-2481.31	11771.90	21.1	Pass
T8	130 - 120	Diagonal	0.75 SR	502	-3836.37	11720.20	32.7	Pass
T9	120 - 117	Diagonal	0.75 SR	545	-1157.47	11725.80	9.9	Pass
T10	117 - 114.67	Diagonal	0.75 SR	557	-3049.87	11724.90	26.0	Pass
T11	114.67 - 112.33	Diagonal	0.75 SR	569	-2705.85	11727.70	23.1	Pass
T12	112.33 - 110	Diagonal	0.75 SR	585	-1722.67	11724.90	14.7	Pass
T13	110 - 107.67	Diagonal	0.75 SR	595	-2446.00	11724.90	20.9	Pass
T14	107.67 - 105.33	Diagonal	0.75 SR	606	-2220.04	11727.70	18.9	Pass
T15	105.33 - 103	Diagonal	0.75 SR	618	-1961.90	11724.90	16.7	Pass
T16	103 - 100	Diagonal	0.75 SR	637	-2573.90	11725.80	22.0	Pass
T17	100 - 80	Diagonal	0.75 SR	708	-2442.06	11725.80	20.8	Pass
T18	80 - 60	Diagonal	0.5625 SR	727	-2483.31	4455.35	55.7	Pass
T19	60 - 40	Diagonal	0.5625 SR	847	-1951.21	4455.35	43.8	Pass
T20	40 - 20	Diagonal	0.5625 SR	930	-1740.09	4455.35	39.1	Pass
T21	20 - 5	Diagonal	0.5625 SR	951	-1865.55	4407.72	42.3	Pass
T22	5 - 0	Diagonal	0.5625 SR	1000	-5158.78	5639.65	91.5	Pass
T1	250 - 240	Horizontal	0.75 SR	25	-252.72	6016.18	4.2	Pass
T2	240 - 220	Horizontal	0.75 SR	99	-4169.46	6016.18	69.3	Pass
T14	107.67 - 105.33	Horizontal	0.75 SR	605	2802.02	19880.40	14.1	Pass
T15	105.33 - 103	Horizontal	0.75 SR	616	2526.61	19880.40	12.7	Pass
T17	100 - 80	Horizontal	0.75 SR	659	3081.97	19880.40	15.5	Pass
T18	80 - 60	Horizontal	0.75 SR	733	2279.18	19880.40	11.5	Pass
T19	60 - 40	Horizontal	0.75 SR	807	2360.80	19880.40	11.9	Pass
T20	40 - 20	Horizontal	0.75 SR	881	2490.86	19880.40	12.5	Pass
T21	20 - 5	Horizontal	0.75 SR	981	2477.15	19880.40	12.5	Pass
T1	250 - 240	Secondary Horizontal	0.75 SR	24	-0.07	11908.10	0.1	Pass
T2	240 - 220	Secondary Horizontal	0.75 SR	98	-0.08	11908.10	0.1	Pass
T3	220 - 200	Secondary Horizontal	0.75 SR	143	-885.81	6016.18	14.7	Pass
T4	200 - 180	Secondary Horizontal	0.75 SR	218	-908.45	6016.18	15.1	Pass
T5	180 - 160	Secondary Horizontal	0.75 SR	311	-992.33	6016.18	16.5	Pass
T6	160 - 140	Secondary Horizontal	0.75 SR	395	-1002.20	6016.18	16.7	Pass
T7	140 - 130	Secondary Horizontal	0.75 SR	473	-964.93	6016.18	16.0	Pass
T8	130 - 120	Secondary Horizontal	0.75 SR	508	-980.95	6333.36	15.5	Pass
T9	120 - 117	Secondary Horizontal	0.75 SR	551	-1037.40	6333.36	16.7	Pass
T10	117 - 114.67	Secondary Horizontal	0.75 SR	563	-1030.38	6333.36	16.3	Pass
T11	114.67 - 112.33	Secondary Horizontal	0.75 SR	575	-1055.40	6333.36	16.7	Pass
T12	112.33 - 110	Secondary Horizontal	0.75 SR	588	-1075.48	6333.36	17.0	Pass
T13	110 - 107.67	Secondary Horizontal	0.75 SR	601	-0.03	11988.80	0.1	Pass
T14	107.67 - 105.33	Secondary Horizontal	0.75 SR	612	-0.03	11988.80	0.1	Pass
T15	105.33 - 103	Secondary Horizontal	0.75 SR	623	-0.03	11988.80	0.1	Pass
T16	103 - 100	Secondary Horizontal	0.75 SR	639	-0.03	11988.80	0.1	Pass
T17	100 - 80	Secondary Horizontal	0.75 SR	713	-0.03	11988.80	0.1	Pass
T18	80 - 60	Secondary Horizontal	0.75 SR	787	-0.03	11988.80	0.1	Pass
T19	60 - 40	Secondary Horizontal	0.75 SR	830	-0.03	11988.80	0.0	Pass
T20	40 - 20	Secondary Horizontal	0.75 SR	935	-0.03	11988.80	0.0	Pass
T21	20 - 5	Secondary Horizontal	0.75 SR	988	-0.03	11988.80	0.0	Pass
T1	250 - 240	Top Girt	0.75 SR	4	-141.95	6016.18	2.4	Pass
T3	220 - 200	Top Girt	0.75 SR	120	-1051.14	6016.18	17.5	Pass
T4	200 - 180	Top Girt	0.75 SR	203	-908.45	6016.18	15.1	Pass
T6	160 - 140	Top Girt	0.75 SR	371	-1002.20	6016.18	16.7	Pass
T7	140 - 130	Top Girt	0.75 SR	455	-964.93	6016.18	16.0	Pass
T8	130 - 120	Top Girt	0.75 SR	496	-980.95	6333.36	15.5	Pass
T13	110 - 107.67	Top Girt	0.75 SR	594	-1075.48	6333.36	17.0	Pass
T16	103 - 100	Top Girt	0.75 SR	629	-1111.30	6333.36	17.5	Pass
T17	100 - 80	Top Girt	0.75 SR	644	-1154.89	6333.36	18.2	Pass
T18	80 - 60	Top Girt	0.75 SR	717	-1204.50	6333.36	19.0	Pass
T20	40 - 20	Top Girt	0.75 SR	866	-1311.42	6333.36	20.7	Pass

inxTower

POD Group
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Phone: 330-961-7440
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Array Inc.	utoluganti

Section No.	Elevation ft	Component Type	Size	Critical Element	P lb	ϕP_{allow} lb	% Capacity	Pass Fail
T21	20 - 5	Top Girt	0.75 SR	940	-1318.70	6333.36	20.8	Pass
T22	5 - 0	Top Girt	0.75 SR	992	14347.20	19880.40	73.2	Pass
T1	250 - 240	Bottom Girt	0.75 SR	9	-1070.20	6016.18	17.8	Pass
T2	240 - 220	Bottom Girt	0.75 SR	49	-1332.57	6016.18	22.1	Pass
T3	220 - 200	Bottom Girt	0.75 SR	122	-885.81	6016.18	14.7	Pass
T4	200 - 180	Bottom Girt	0.75 SR	207	-2645.37	6016.18	44.0	Pass
T5	180 - 160	Bottom Girt	0.75 SR	290	-992.33	6016.18	16.5	Pass
T6	160 - 140	Bottom Girt	0.75 SR	375	-1036.88	6016.18	17.2	Pass
T8	130 - 120	Bottom Girt	0.75 SR	501	-2113.25	6333.36	33.4	Pass
T16	103 - 100	Bottom Girt	0.75 SR	632	-1111.30	6333.36	17.5	Pass
T17	100 - 80	Bottom Girt	0.75 SR	647	-1154.89	6333.36	18.2	Pass
T18	80 - 60	Bottom Girt	0.75 SR	720	-1204.50	6333.36	19.0	Pass
T19	60 - 40	Bottom Girt	0.75 SR	795	-1263.60	6333.36	20.0	Pass
T20	40 - 20	Bottom Girt	0.75 SR	869	-1311.42	6333.36	20.7	Pass
T22	5 - 0	Bottom Girt	0.75 SR	997	2633.77	19880.40	13.2	Pass
T2	240 - 220	Mid Girt	0.75 SR	52	-1145.03	6016.18	19.0	Pass
T3	220 - 200	Mid Girt	0.75 SR	124	146.85	19880.40	0.7	Pass
T4	200 - 180	Mid Girt	0.75 SR	208	-171.84	6016.18	2.9	Pass
T5	180 - 160	Mid Girt	0.75 SR	294	-1310.17	6016.18	21.8	Pass
T6	160 - 140	Mid Girt	0.75 SR	378	388.57	19880.40	2.0	Pass
T17	100 - 80	Mid Girt	0.75 SR	649	2519.57	19880.40	12.7	Pass
T18	80 - 60	Mid Girt	0.75 SR	723	1821.83	19880.40	9.2	Pass
T19	60 - 40	Mid Girt	0.75 SR	797	1934.93	19880.40	9.7	Pass
T20	40 - 20	Mid Girt	0.75 SR	871	2049.58	19880.40	10.3	Pass
T2	240 - 220	Guy A@237	9/16	1022	13484.80	21000.00	64.2	Pass
T5	180 - 160	Guy A@177	7/16	1040	12813.80	12480.00	102.7	Pass
T10	117 - 114.67	Guy A@117	3/8	1059	8193.24	9240.00	88.7	Pass
T19	60 - 40	Guy A@59.3333	3/8	1066	6767.32	9240.00	73.2	Pass
T2	240 - 220	Guy B@237	9/16	1016	13220.10	21000.00	63.0	Pass
T5	180 - 160	Guy B@177	7/16	1034	12839.90	12480.00	102.9	Pass
T10	117 - 114.67	Guy B@117	3/8	1052	8262.53	9240.00	89.4	Pass
T19	60 - 40	Guy B@59.3333	3/8	1065	7223.87	9240.00	78.2	Pass
T2	240 - 220	Guy C@237	9/16	1011	13155.10	21000.00	62.6	Pass
T5	180 - 160	Guy C@177	7/16	1029	12779.90	12480.00	102.4	Pass
T10	117 - 114.67	Guy C@117	3/8	1047	8226.67	9240.00	89.0	Pass
T19	60 - 40	Guy C@59.3333	3/8	1064	7240.10	9240.00	78.4	Pass
T2	240 - 220	Top Guy	(2) 7/8" SR	46	-7806.08	18717.10	41.7	Pass
T5	180 - 160	Top Guy	(2) 7/8" SR	288	-7679.06	18717.10	41.0	Pass
T9	120 - 117	Pull-Off@177	(2) 7/8" SR	543	-5512.13	19703.90	28.0	Pass
T19	60 - 40	Top Guy	0.75 SR	793	4040.55	19880.40	20.3	Pass
T2	240 - 220	Pull-Off@59.3333	0.75 SR	793	4040.55	19880.40	20.3	Pass
T5	180 - 160	Torque Arm	2L3x3x5/16x3/8	1024	16805.00	115020.00	14.6	Pass
T10	117 - 114.67	Torque Arm	2L3x3x5/16x3/8	1037	16427.90	115020.00	14.3	Pass
T2	240 - 220	Torque Arm	2L3x3x5/16x3/8	1055	11408.10	115020.00	9.9	Pass
T5	180 - 160	Torque Arm	2L3x3x5/16x3/8	1026	-15672.90	97678.90	16.0	Pass
T10	117 - 114.67	Torque Arm	2L3x3x5/16x3/8	1045	-14005.30	97678.90	14.3	Pass
T5	180 - 160	Torque Arm	2L3x3x5/16x3/8	1057	-8825.49	97829.90	9.0	Pass

Summary		
Leg (T6)	79.0	Pass
Diagonal (T22)	91.5	Pass
Horizontal	69.3	Pass

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Section No.	Elevation ft	Component Type	Size	Critical Element	P lb	ϕP_{allow} lb	% Capacity	Pass Fail
			(T2)					
			Secondary Horizontal				17.0	Pass
			(T12)					
			Top Girt				72.2	Pass
			(T22)					
			Bottom Girt				44.0	Pass
			(T4)					
			Mid Girt				21.8	Pass
			(T5)					
			Guy A (T5)				102.7	Pass
			Guy B (T5)				102.9	Pass
			Guy C (T5)				102.4	Pass
			Top Guy				41.7	Pass
			Pull-Off					
			(T2)					
			Torque Arm				14.6	Pass
			Top (T2)					
			Torque Arm				16.0	Pass
			Bottom (T2)					
			Bolt Checks				34.2	Pass
			RATING =				102.9	Pass

250' Prod Guyed Tower

POD Group

425322

Additional Calculations



POD Job # 26-195249
Site Number 425322
Site Name Troy

Reactions from tnxTower

Vertical	54,298	kips
Horizontal	45,321	kips

Anchor Block Information

Depth	7 ft
Height	5 ft
Width	5 ft
Length	14 ft
Radius	150 ft

Anchor Block Reinforcement

Known?	Yes
Top Bar Size	6
Number of Top Bar	6
Front Bar Size	6
Number of Front Bar	3
Back & Bottom Bar Size	6
Number of Back & Bottom Bar	6
Tie Size	4
Clear Cover	3 in
f' _c	3 ksi
F _y	60 ksi

Soil Properties

Depth to Ignore	5.83 ft
Water Table	7 ft
Soil Type	Granular
Uplift Angle	Yes

Foundation Rating

Soil	70.5%
Rebar	38.2%

Layer	Ca (psf)	f _s (psf)	γ _{soil} (pcf)	γ _{concrete} (pcf)	Bottom of Layer (ft)
1	0	40	115	150	2
2	0	160	118	150	4
3	0	280	118	150	6
4	0	360	118	150	7



POD Job #
Site Number
Site Name

26-195249
425322
Troy

General Info

Code
Bearing On
Foundation Type
Pier Type
Reinforcing Known

TIA-222-H
Rock
Guyed Pad
Round
Yes

Tower Reactions

Moment, M
Axial, P
Shear, V

0.1 k-ft
223,961 k
0.895 k

Bearing	12.0%
Overturning	0.0%
Mat Bending	17.4%
Pier Shear	2.7%
Pier Bending	0.8%

Pad & Pier Geometry

Pier Diameter, Ø
Pad Length, L
Pad Width, W
Pad Thickness, t
Total Depth below Grade, D
Height Above Grade, HG

2.5 ft
6 ft
6 ft
2.5 ft
5 ft
0.5 ft

Bearing Summary

Q_{xmax}
Q_ymax
Q_{max @ 45°}
Q(all)
Controlling Capacity

6.33 ksf
6.33 ksf
6.51 ksf
54.00 ksf
12.00%

Load Case

1.2D+1.6W
1.2D+1.6W
1.2D+1.6W

Pad & Pier Reinforcing

Rebar Fy
Concrete Fc'
Clear Cover
Reinforced Top & Bottom?
Pad Reinforcing Size
Pad Quantity Per Layer
Pier Rebar Size
Pier Quantity of Rebar

60 ksi
3 ksi
3 in
Yes
6
7
6
9

Soil Properties

Soil Type
Soil Unit Weight
Angle of Friction, Ø
Bearing Type
Ultimate Bearing
Water Table Depth
Frost Depth

Granular
123 pcf
45 °
Net
90 ksf
7 ft
5.83 ft

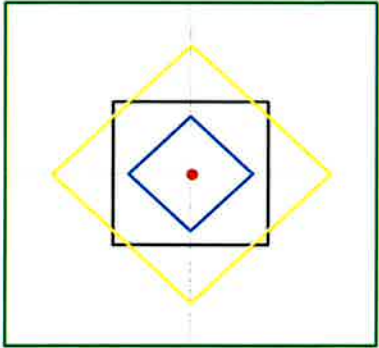
Overturning Summary

FS(o)_x
FS(o)_y
Controlling Capacity

-76152.78 <1.0
-76152.78 <1.0
0.00%

Load Case

1.2D+1.6W
1.2D+1.6W



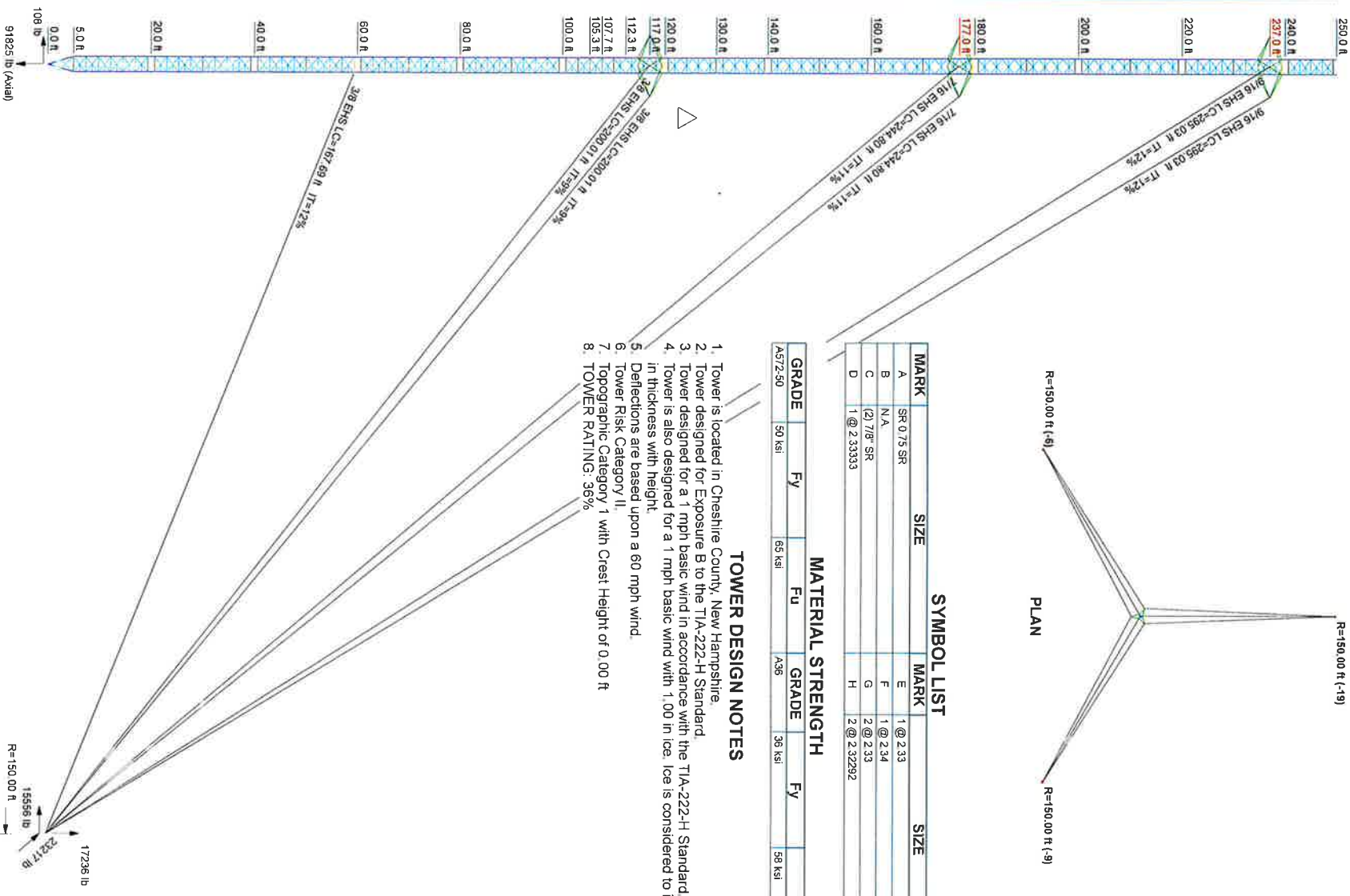
250' Prod Guyed Tower

POD Group

425322

Seismic Analysis

Section	T22	T21	T20	T19	T18	T17	T16	T15	T14	T13	T12	T11
Legs	1.5" SR w/ P2-XX Half Pipe											
Leg Grade	A572-50											
Diagonals	SR 0.5625 SR											
Diagonal Grade	A36											
Top Girts	SR 0.75 SR											
Mid Girts	N.A.											
Bottom Girts	N.A.											
Horizontal	N.A.											
Sec. Horizontal	N.A.											
Top Guy Pull-Offs	N.A.											
Face Width (ft)	N.A.											
# Panels @ (ft)	H 6 @ 2.38889											
Weight (lb)	14278.6											



MARK	SIZE	MARK	SIZE
A	SR 0.75 SR	E	1 @ 2.33
B	N.A.	F	1 @ 2.34
C	(2) 7/8" SR	G	2 @ 2.33
D	1 @ 2.3333	H	2 @ 2.3292

GRADE	Fy	Fu	GRADE	Fy	Fu
A572-50	50 ksi	65 ksi	A36	36 ksi	58 ksi

TOWER DESIGN NOTES

1. Tower is located in Cheshire County, New Hampshire.
2. Tower designed for Exposure B to the TIA-222-H Standard.
3. Tower designed for a 1 mph basic wind in accordance with the TIA-222-H Standard.
4. Tower is also designed for a 1 mph basic wind with 1.00 in ice. Ice is considered to increase in thickness with height.
5. Deflections are based upon a 60 mph wind.
6. Tower Risk Category II.
7. Topographic Category 1 with Crest Height of 0.00 ft
8. TOWER RATING: 36%

ALL REACTIONS ARE FACTORED

POD
1033 E turkeyfoot Lake Rd. Suite 206
Green OH- 44312
Phone: 330-961-7440
FAX:

POD Group

Project: **425332**
Client: **Array Inc.**
Code: **TIA-222-H**
Date: **05/21/26**

Drawn by: **utluganti**
App'd: **Scale: NTS**
Dwg No: **E-1**

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		Client	Array Inc.	Designed by utluganti

Tower Input Data

The main tower is a 3x guyed tower with an overall height of 250.00 ft above the ground line.
The base of the tower is set at an elevation of 0.00 ft above the ground line.
The face width of the tower is 3.00 ft at the top and tapered at the base.
This tower is designed using the T1A-222-H standard.

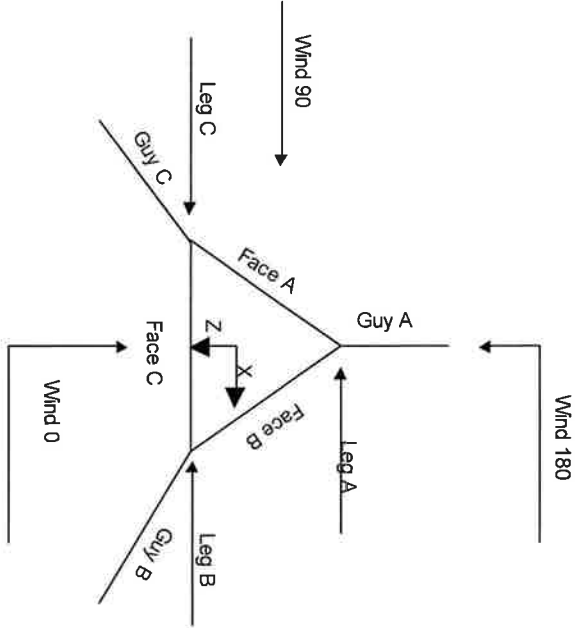
The following design criteria apply:

Tower is located in Cheshire County, New Hampshire.
Tower base elevation above sea level: 1240.64 ft.
Basic wind speed of 1 mph.
Risk Category II.
Exposure Category B.
Simplified Topographic Factor Procedure for wind speed-up calculations is used.
Topographic Category: 1.
Crest Height: 0.00 ft.
Nominal ice thickness of 1,0000 in.
Ice thickness is considered to increase with height.
Ice density of 56 pcf.
A wind speed of 1 mph is used in combination with ice.
Temperature drop of 50 °F.
Deflections calculated using a wind speed of 60 mph.
Pressures are calculated at each section.
Stress ratio used in tower member design is 1.
Safety factor used in guy design is 1.
Local bending stresses due to climbing loads, feed line supports, and appurtenance mounts are not considered.

Options

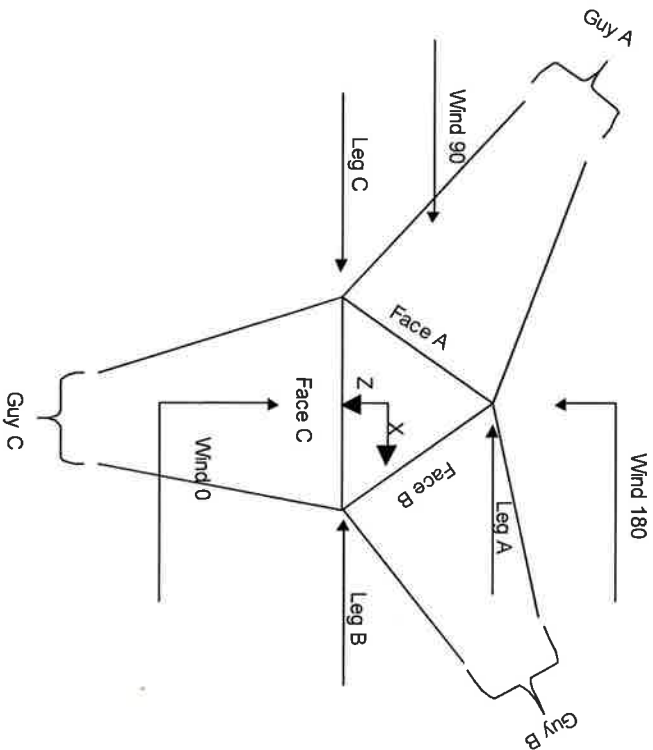
Consider Moments - Legs	✓ Assume Legs Pinned	✓ Calculate Redundant Bracing Forces
Consider Moments - Horizontals	✓ Assume Rigid Index Plate	✓ Ignore Redundant Members in FEA
Consider Moments - Diagonals	✓ Use Clear Spans For Wind Area	✓ SR Leg Bolts Resist Compression
Use Moment Magnification	✓ Use Clear Spans For K _{L/r}	✓ All Leg Panels Have Same Allowable Offset Girt At Foundation
Use Code Stress Ratios	✓ Retension Guys To Initial Tension	✓ Consider Feed Line Torque
Use Code Safety Factors - Guys	✓ Bypass Mast Stability Checks	✓ Include Angle Block Shear Check
Escalate Ice	✓ Use Azimuth Dish Coefficients	Use T1A-222-H Bracing Resist Exemption
Always Use Max K _z	✓ Project Wind Area of Appurtenances	Use T1A-222-H Tension Splice Exemption
K _z In Exposure D Hurricane Region	✓ Alternative Appurt EPA Calculation	Poles
Include Bolts In Member Capacity	✓ Autocalc Torque Arm Areas	Include Shear-Torsion Interaction
Leg Bolts Are At Top Of Section	✓ Add IBC .6D+W Combination	Always Use Sub-Critical Flow
Secondary Horizontal Braces Leg	✓ Sort Capacity Reports By Component	Use Top Mounted Sockets
Use Diamond Inner Bracing (4 Sided)	✓ Triangulate Diamond Inner Bracing	Pole Without Linear Attachments
SR Members Have Cut Ends	✓ Treat Feed Line Bundles As Cylinder	Pole With Shroud Or No Appurtenances
SR Members Are Concentric	✓ Ignore K _{L/r} For 60 Deg. Angle Legs	Outside and Inside Corner Radii Are Known
Distribute Leg Loads As Uniform	Use ASCE 10 X-Brace Ly Rules	
Use Special Wind Profile		

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Corner & Starmount Guyed Tower

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Face Guyed

Tower Section Geometry					
Tower Section	Tower Elevation	Assembly Database	Description	Section Width	Number of Sections
T1	250.00-240.00			3.00	1
T2	240.00-220.00			3.00	1
T3	220.00-200.00			3.00	1
T4	200.00-180.00			3.00	1
T5	180.00-160.00			3.00	1
T6	160.00-140.00			3.00	1
T7	140.00-130.00			3.00	1
T8	130.00-120.00			3.00	1
T9	120.00-117.00			3.00	1
T10	117.00-114.67			3.00	1
T11	114.67-112.33			3.00	1
T12	112.33-110.00			3.00	1
T13	110.00-107.67			3.00	1
T14	107.67-105.33			3.00	1
T15	105.33-103.00			3.00	1
T16	103.00-100.00			3.00	1

inxTower

POD Group
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Tower Section	Tower Elevation	Assembly Database	Description	Section Width	Number of Sections	Section Length
<i>f</i>						
T17	100.00-80.00			3.00	1	20.00
T18	80.00-60.00			3.00	1	20.00
T19	60.00-40.00			3.00	1	20.00
T20	40.00-20.00			3.00	1	20.00
T21	20.00-5.00			3.00	1	15.00
T22	5.00-0.00			3.00	1	5.00

Tower Section Geometry (cont'd)

Tower Section	Tower Elevation	Diagonal Spacing	Bracing Type	Has K Brace End	Has Horizontal Panels	Top Girt Offset	Bottom Girt Offset
<i>f</i>							
T1	250.00-240.00	2.17	CX Brace	No	Steps	8.0000	8.0000
T2	240.00-220.00	2.33	CX Brace	No	Steps	8.0000	8.0000
T3	220.00-200.00	2.33	CX Brace	No	Yes	8.0000	8.0000
T4	200.00-180.00	2.33	CX Brace	No	Yes	8.0000	8.0000
T5	180.00-160.00	2.33	CX Brace	No	Yes	8.0000	8.0000
T6	160.00-140.00	2.33	CX Brace	No	Yes	8.0000	8.0000
T7	140.00-130.00	2.31	CX Brace	No	Yes	8.0000	1.0000
T8	130.00-120.00	2.31	CX Brace	No	Yes	1.0000	8.0000
T9	120.00-117.00	2.33	CX Brace	No	Yes	8.0000	0.0000
T10	117.00-114.67	2.33	CX Brace	No	Yes	0.0000	0.0000
T11	114.67-112.33	2.34	CX Brace	No	Yes	0.0000	0.0000
T12	112.33-110.00	2.33	CX Brace	No	Yes	0.0000	0.0000
T13	110.00-107.67	2.33	CX Brace	No	Steps	0.0000	0.0000
T14	107.67-105.33	2.34	CX Brace	No	Steps	0.0000	0.0000
T15	105.33-103.00	2.33	CX Brace	No	Steps	0.0000	0.0000
T16	103.00-100.00	2.33	CX Brace	No	Steps	0.0000	8.0000
T17	100.00-80.00	2.33	CX Brace	No	Steps	8.0000	8.0000
T18	80.00-60.00	2.33	CX Brace	No	Steps	8.0000	8.0000
T19	60.00-40.00	2.33	CX Brace	No	Steps	8.0000	8.0000
T20	40.00-20.00	2.33	CX Brace	No	Steps	8.0000	8.0000
T21	20.00-5.00	2.39	CX Brace	No	Steps	8.0000	0.0000
T22	5.00-0.00	2.32	CX Brace	No	Steps	0.0000	4.2500

Tower Section Geometry (cont'd)

Tower Elevation <i>f</i>	Leg Type	Leg Size	Leg Grade	Diagonal Type	Diagonal Size	Diagonal Grade
T1 250.00-240.00	Solid Round	1.5 SR	A572-50 (50 ksi)	Solid Round	0.75 SR	A572-50 (50 ksi)
T2 240.00-220.00	Solid Round	1.5 SR	A572-50 (50 ksi)	Solid Round	0.75 SR	A572-50 (50 ksi)
T3 220.00-200.00	Solid Round	1.5 SR	A572-50 (50 ksi)	Solid Round	0.75 SR	A572-50 (50 ksi)
T4 200.00-180.00	Solid Round	1.5 SR	A572-50 (50 ksi)	Solid Round	0.75 SR	A572-50 (50 ksi)
T5 180.00-160.00	Solid Round	1.5 SR	A572-50 (50 ksi)	Solid Round	0.75 SR	A572-50 (50 ksi)
T6 160.00-140.00	Solid Round	1.5 SR	A572-50 (50 ksi)	Solid Round	0.75 SR	A572-50 (50 ksi)

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Tower Elevation ft	Leg Type	Leg Size	Leg Grade	Diagonal Type	Diagonal Size	Diagonal Grade
T7 140.00-130.00	Solid Round	1.5 SR	(50 ksi) A572-50 (50 ksi)	Solid Round	0.75 SR	(50 ksi) A572-50 (50 ksi)
T8 130.00-120.00	Arbitrary Shape	1.5" SR w/ P2-XX Half Pipe	A572-50 (50 ksi)	Solid Round	0.75 SR	A572-50 (50 ksi)
T9 120.00-117.00	Arbitrary Shape	1.5" SR w/ P2-XX Half Pipe	A572-50 (50 ksi)	Solid Round	0.75 SR	A572-50 (50 ksi)
T10	Arbitrary Shape	1.5" SR w/ P2-XX Half Pipe	A572-50 (50 ksi)	Solid Round	0.75 SR	A572-50 (50 ksi)
117.00-114.67	Arbitrary Shape	1.5" SR w/ P2-XX Half Pipe	A572-50 (50 ksi)	Solid Round	0.75 SR	A572-50 (50 ksi)
T11	Arbitrary Shape	1.5" SR w/ P2-XX Half Pipe	A572-50 (50 ksi)	Solid Round	0.75 SR	A572-50 (50 ksi)
114.67-112.33	Arbitrary Shape	1.5" SR w/ P2-XX Half Pipe	A572-50 (50 ksi)	Solid Round	0.75 SR	A572-50 (50 ksi)
T12	Arbitrary Shape	1.5" SR w/ P2-XX Half Pipe	A572-50 (50 ksi)	Solid Round	0.75 SR	A572-50 (50 ksi)
112.33-110.00	Arbitrary Shape	1.5" SR w/ P2-XX Half Pipe	A572-50 (50 ksi)	Solid Round	0.75 SR	A572-50 (50 ksi)
T13	Arbitrary Shape	1.5" SR w/ P2-XX Half Pipe	A572-50 (50 ksi)	Solid Round	0.75 SR	A572-50 (50 ksi)
110.00-107.67	Arbitrary Shape	1.5" SR w/ P2-XX Half Pipe	A572-50 (50 ksi)	Solid Round	0.75 SR	A572-50 (50 ksi)
T14	Arbitrary Shape	1.5" SR w/ P2-XX Half Pipe	A572-50 (50 ksi)	Solid Round	0.75 SR	A572-50 (50 ksi)
107.67-105.33	Arbitrary Shape	1.5" SR w/ P2-XX Half Pipe	A572-50 (50 ksi)	Solid Round	0.75 SR	A572-50 (50 ksi)
T15	Arbitrary Shape	1.5" SR w/ P2-XX Half Pipe	A572-50 (50 ksi)	Solid Round	0.75 SR	A572-50 (50 ksi)
105.33-103.00	Arbitrary Shape	1.5" SR w/ P2-XX Half Pipe	A572-50 (50 ksi)	Solid Round	0.75 SR	A572-50 (50 ksi)
T16	Arbitrary Shape	1.5" SR w/ P2-XX Half Pipe	A572-50 (50 ksi)	Solid Round	0.75 SR	A572-50 (50 ksi)
103.00-100.00	Arbitrary Shape	1.5" SR w/ P2-XX Half Pipe	A572-50 (50 ksi)	Solid Round	0.75 SR	A572-50 (50 ksi)
T17 100.00-80.00	Arbitrary Shape	1.5" SR w/ P2-XX Half Pipe	A572-50 (50 ksi)	Solid Round	0.75 SR	A572-50 (50 ksi)
T18 80.00-60.00	Arbitrary Shape	1.5" SR w/ P2-XX Half Pipe	A572-50 (50 ksi)	Solid Round	0.5625 SR	A36 (36 ksi)
T19 60.00-40.00	Arbitrary Shape	1.5" SR w/ P2-XX Half Pipe	A572-50 (50 ksi)	Solid Round	0.5625 SR	A36 (36 ksi)
T20 40.00-20.00	Arbitrary Shape	1.5" SR w/ P2-XX Half Pipe	A572-50 (50 ksi)	Solid Round	0.5625 SR	A36 (36 ksi)
T21 20.00-5.00	Arbitrary Shape	1.5" SR w/ P2-XX Half Pipe	A572-50 (50 ksi)	Solid Round	0.5625 SR	A36 (36 ksi)
T22 5.00-0.00	Arbitrary Shape	1.5" SR w/ P2-XX Half Pipe	A572-50 (50 ksi)	Solid Round	0.5625 SR	A36 (36 ksi)

Tower Section Geometry (cont'd)

Tower Elevation ft	Top Girt Type	Top Girt Size	Top Girt Grade	Bottom Girt Type	Bottom Girt Size	Bottom Girt Grade
T1 250.00-240.00	Solid Round	0.75 SR	A572-50 (50 ksi)	Solid Round	0.75 SR	A572-50 (50 ksi)
T2 240.00-220.00	Solid Round	0.75 SR	A572-50 (50 ksi)	Solid Round	0.75 SR	A572-50 (50 ksi)
T3 220.00-200.00	Solid Round	0.75 SR	A572-50 (50 ksi)	Solid Round	0.75 SR	A572-50 (50 ksi)
T4 200.00-180.00	Solid Round	0.75 SR	A572-50 (50 ksi)	Solid Round	0.75 SR	A572-50 (50 ksi)
T5 180.00-160.00	Solid Round	0.75 SR	A572-50 (50 ksi)	Solid Round	0.75 SR	A572-50 (50 ksi)
T6 160.00-140.00	Solid Round	0.75 SR	A572-50 (50 ksi)	Solid Round	0.75 SR	A572-50 (50 ksi)
T7 140.00-130.00	Solid Round	0.75 SR	A572-50 (50 ksi)	Solid Round	0.75 SR	A572-50 (50 ksi)
T8 130.00-120.00	Solid Round	0.75 SR	A572-50 (50 ksi)	Solid Round	0.75 SR	A572-50 (50 ksi)
T9 120.00-117.00	Solid Round	0.75 SR	A572-50 (50 ksi)	Solid Round		A572-50 (50 ksi)

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Tower Elevation ft	Top Girt Type	Top Girt Size	Top Girt Grade	Bottom Girt Type	Bottom Girt Size	Bottom Girt Grade
T13 110.00-107.67	Solid Round	0.75 SR	(50 ksi) A572-50	Solid Round		(50 ksi) A572-50
T16 103.00-100.00	Solid Round	0.75 SR	A572-50 (50 ksi)	Solid Round	0.75 SR	A572-50 (50 ksi)
T17 100.00-80.00	Solid Round	0.75 SR	A572-50 (50 ksi)	Solid Round	0.75 SR	A572-50 (50 ksi)
T18 80.00-60.00	Solid Round	0.75 SR	A572-50 (50 ksi)	Solid Round	0.75 SR	A572-50 (50 ksi)
T19 60.00-40.00	Solid Round	0.75 SR	A572-50 (50 ksi)	Solid Round	0.75 SR	A572-50 (50 ksi)
T20 40.00-20.00	Solid Round	0.75 SR	A572-50 (50 ksi)	Solid Round	0.75 SR	A572-50 (50 ksi)
T21 20.00-5.00	Solid Round	0.75 SR	A572-50 (50 ksi)	Solid Round		A572-50 (50 ksi)
T22 5.00-0.00	Solid Round	0.75 SR	A572-50 (50 ksi)	Solid Round	0.75 SR	A572-50 (50 ksi)

Tower Section Geometry (cont'd)

Tower Elevation ft	No. of Mid Girts	Mid Girt Type	Mid Girt Size	Mid Girt Grade	Horizontal Type	Horizontal Size	Horizontal Grade
T1 250.00-240.00	None	Solid Round		A572-50 (50 ksi)	Solid Round	0.75 SR	A572-50 (50 ksi)
T2 240.00-220.00	1	Solid Round	0.75 SR	A572-50 (50 ksi)	Solid Round	0.75 SR	A572-50 (50 ksi)
T3 220.00-200.00	1	Solid Round	0.75 SR	A572-50 (50 ksi)	Solid Round		A572-50 (50 ksi)
T4 200.00-180.00	1	Solid Round	0.75 SR	A572-50 (50 ksi)	Solid Round		A572-50 (50 ksi)
T5 180.00-160.00	1	Solid Round	0.75 SR	A572-50 (50 ksi)	Solid Round		A572-50 (50 ksi)
T6 160.00-140.00	1	Solid Round	0.75 SR	A572-50 (50 ksi)	Solid Round		A572-50 (50 ksi)
T13 110.00-107.67	None	Solid Round		A572-50 (50 ksi)	Solid Round	0.75 SR	A572-50 (50 ksi)
T14 107.67-105.33	None	Solid Round		A572-50 (50 ksi)	Solid Round	0.75 SR	A572-50 (50 ksi)
T15 105.33-103.00	None	Solid Round		A572-50 (50 ksi)	Solid Round	0.75 SR	A572-50 (50 ksi)
T16 103.00-100.00	None	Solid Round		A572-50 (50 ksi)	Solid Round	0.75 SR	A572-50 (50 ksi)
T17 100.00-80.00	1	Solid Round	0.75 SR	A572-50 (50 ksi)	Solid Round	0.75 SR	A572-50 (50 ksi)
T18 80.00-60.00	1	Solid Round	0.75 SR	A572-50 (50 ksi)	Solid Round	0.75 SR	A572-50 (50 ksi)
T19 60.00-40.00	1	Solid Round	0.75 SR	A572-50 (50 ksi)	Solid Round	0.75 SR	A572-50 (50 ksi)
T20 40.00-20.00	1	Solid Round	0.75 SR	A572-50 (50 ksi)	Solid Round	0.75 SR	A572-50 (50 ksi)
T21 20.00-5.00	None	Solid Round		A572-50 (50 ksi)	Solid Round	0.75 SR	A572-50 (50 ksi)

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Tower Elevation	Gusser Area (per face)	Gusser Thickness	Gusser Grade	Adjust. Factor A_f	Adjust. Factor A_s	Weight Multi.	Double Angle Stitch Bolt Spacing Diagonals	Double Angle Stitch Bolt Spacing Horizontals	Double Angle Stitch Bolt Spacing Redundants
f_t	f_t^2	in					in	in	in

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Tower Elevation	Gusset Area (per face)	Gusset Thickness	Gusset Grade	Adjst. Factor A_f	Adjst. Factor A_r	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals	Double Angle Stitch Bolt Spacing Horizontals	Double Angle Stitch Bolt Spacing Redundants
f	f^2	in					in	in	in
T1 250.00-240.00	0.00	0.0000	A36 (36 ksi)	1	1	1.05	36.0000	36.0000	36.0000
T2 240.00-220.00	0.00	0.0000	A36 (36 ksi)	1	1	1.05	36.0000	36.0000	36.0000
T3 220.00-200.00	0.00	0.0000	A36 (36 ksi)	1	1	1.05	36.0000	36.0000	36.0000
T4 200.00-180.00	0.00	0.0000	A36 (36 ksi)	1	1	1.05	36.0000	36.0000	36.0000
T5 180.00-160.00	0.00	0.0000	A36 (36 ksi)	1	1	1.05	36.0000	36.0000	36.0000
T6 160.00-140.00	0.00	0.0000	A36 (36 ksi)	1	1	1.05	36.0000	36.0000	36.0000
T7 140.00-130.00	0.00	0.0000	A36 (36 ksi)	1	1	1.05	36.0000	36.0000	36.0000
T8 130.00-120.00	0.00	0.0000	A36 (36 ksi)	1	1	1.05	36.0000	36.0000	36.0000
T9 120.00-117.00	0.00	0.0000	A36 (36 ksi)	1	1	1.05	36.0000	36.0000	36.0000
T10 117.00-114.67	0.00	0.0000	A36 (36 ksi)	1	1	1.05	36.0000	36.0000	36.0000
T11 114.67-112.33	0.00	0.0000	A36 (36 ksi)	1	1	1.05	36.0000	36.0000	36.0000
T12 112.33-110.00	0.00	0.0000	A36 (36 ksi)	1	1	1.05	36.0000	36.0000	36.0000
T13 110.00-107.67	0.00	0.0000	A36 (36 ksi)	1	1	1.05	36.0000	36.0000	36.0000
T14 107.67-105.33	0.00	0.0000	A36 (36 ksi)	1	1	1.05	36.0000	36.0000	36.0000
T15 105.33-103.00	0.00	0.0000	A36 (36 ksi)	1	1	1.05	36.0000	36.0000	36.0000
T16 103.00-100.00	0.00	0.0000	A36 (36 ksi)	1	1	1.05	36.0000	36.0000	36.0000
T17 100.00-80.00	0.00	0.0000	A36 (36 ksi)	1	1	1.05	36.0000	36.0000	36.0000
T18 80.00-60.00	0.00	0.0000	A36 (36 ksi)	1	1	1.05	36.0000	36.0000	36.0000
T19 60.00-40.00	0.00	0.0000	A36 (36 ksi)	1	1	1.05	36.0000	36.0000	36.0000
T20 40.00-20.00	0.00	0.0000	A36 (36 ksi)	1	1	1.05	36.0000	36.0000	36.0000
T21 20.00-5.00	0.00	0.0000	A36 (36 ksi)	1	1	1.05	36.0000	36.0000	36.0000
T22 5.00-0.00	0.00	0.0000	A36 (36 ksi)	1	1	1.05	36.0000	36.0000	36.0000

Tower Section Geometry (cont'd)

Tower Elevation	K Factors ¹									
	Calc K Single Angles	Calc K Solid Rounds	Legs	X Brace Diags	K Brace Diags	Single Diags	Girts	Horiz.	Sec. Horiz.	Inner Brace
f				X Y	X Y	X Y	X Y	X Y	X Y	X Y
T1 250.00-240.00	Yes	Yes	1	0.5 0.5	1	1	1	1	1	1

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Tower Elevation	Calc K Single Angles	Calc K Solid Rounds	Legs	K Factors ¹						Inner Brace
				X Brace Diags	K Brace Diags	Single Diags	Girts	Horiz.	Sec. Horiz.	
				Y	Y	Y	Y	Y	Y	
<i>f</i>										
T2	Yes	Yes	1	0.5						
240.00-220.00				0.5						
T3	Yes	Yes	0.9	0.5						
220.00-200.00				0.5						
T4	Yes	Yes	0.9	0.5						
200.00-180.00				0.5						
T5	Yes	Yes	0.9	0.5						
180.00-160.00				0.5						
T6	Yes	Yes	0.9	0.5						
160.00-140.00				0.5						
T7	Yes	Yes	1	0.5						
140.00-130.00				0.5						
T8	Yes	Yes	1	0.5						
130.00-120.00				0.5						
T9	Yes	Yes	1	0.5						
120.00-117.00				0.5						
T10	Yes	Yes	1	0.5						
117.00-114.67				0.5						
T11	Yes	Yes	1	0.5						
114.67-112.33				0.5						
T12	Yes	Yes	1	0.5						
112.33-110.00				0.5						
T13	Yes	Yes	1	0.5						
110.00-107.67				0.5						
T14	Yes	Yes	1	0.5						
107.67-105.33				0.5						
T15	Yes	Yes	1	0.5						
105.33-103.00				0.5						
T16	Yes	Yes	1	0.5						
103.00-100.00				0.5						
T17	Yes	Yes	1	0.5						
100.00-80.00				0.5						
T18	Yes	Yes	1	0.5						
80.00-60.00				0.5						
T19	Yes	Yes	1	0.5						
60.00-40.00				0.5						
T20	Yes	Yes	1	0.5						
40.00-20.00				0.5						
T21	Yes	Yes	1	0.5						
20.00-5.00				0.5						
T22 5.00-0.00	Yes	Yes	1	0.5						

¹Note: K-factors are applied to member segment lengths. K-braces without inner supporting members will have the K-factor in the out-of-plane direction applied to the overall length.

Tower Section Geometry (cont'd)

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Tower Elevation ft	Leg		Diagonal		Top Chrt		Bottom Chrt		Mid Chrt		Long Horizontal		Short Horizontal	
	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U
T1 250.00-240.00	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
T2 240.00-220.00	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
T3 220.00-200.00	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
T4 200.00-180.00	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
T5 180.00-160.00	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
T6 160.00-140.00	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
T7 140.00-130.00	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
T8 130.00-120.00	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
T9 120.00-117.00	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
T10 117.00-114.67	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
T11 114.67-112.33	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
T12 112.33-110.00	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
T13 110.00-107.67	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
T14 107.67-105.33	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
T15 105.33-103.00	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
T16 103.00-100.00	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
T17 100.00-80.00	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
T18 80.00-60.00	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
T19 60.00-40.00	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
T20 40.00-20.00	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
T21 20.00-5.00	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
T22 5.00-0.00	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75

Tower Elevation ft	Redundant Horizontal		Redundant Diagonal		Redundant Sub-Diagonal		Redundant Sub-Horizontal		Redundant Vertical		Redundant Hip		Redundant Hip Diagonal	
	Net Width Deduct in	U Deduct in	Net Width Deduct in	U Deduct in	Net Width Deduct in	U Deduct in	Net Width Deduct in	U Deduct in	Net Width Deduct in	U Deduct in	Net Width Deduct in	U Deduct in	Net Width Deduct in	U Deduct in
T1 250.00-240.00	0.0000	0.75 (1)	0.0000	0.75 (1)	0.0000	0.75 (1)	0.0000	0.75 (1)	0.0000	0.75 (1)	0.0000	0.75 (1)	0.0000	0.75 (1)
	0.0000	0.75 (2)	0.0000	0.75 (2)							0.0000	0.75 (2)	0.0000	0.75 (2)

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Tower Elevation ft	Redundant Horizontal		Redundant Diagonal		Redundant Sub-Diagonal		Redundant Sub-Horizontal		Redundant Vertical		Redundant Hip		Redundant Hip Diagonal	
	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U
T2 240.00-220.00	0.0000	0.75 (3)	0.0000	0.75 (3)					0.0000	0.75 (3)	0.0000	0.75 (3)	0.0000	0.75 (3)
	0.0000	0.75 (4)	0.0000	0.75 (4)					0.0000	0.75 (4)	0.0000	0.75 (4)	0.0000	0.75 (4)
	0.0000	0.75 (1)	0.0000	0.75 (4)	0.0000	0.75 (1)	0.0000	0.75 (1)	0.0000	0.75 (1)	0.0000	0.75 (1)	0.0000	0.75 (1)
	0.0000	0.75 (2)	0.0000	0.75 (2)					0.0000	0.75 (2)	0.0000	0.75 (2)	0.0000	0.75 (2)
T3 220.00-200.00	0.0000	0.75 (3)	0.0000	0.75 (2)					0.0000	0.75 (3)	0.0000	0.75 (3)	0.0000	0.75 (3)
	0.0000	0.75 (4)	0.0000	0.75 (4)					0.0000	0.75 (4)	0.0000	0.75 (4)	0.0000	0.75 (4)
	0.0000	0.75 (1)	0.0000	0.75 (1)	0.0000	0.75 (1)	0.0000	0.75 (1)	0.0000	0.75 (1)	0.0000	0.75 (1)	0.0000	0.75 (1)
	0.0000	0.75 (2)	0.0000	0.75 (2)					0.0000	0.75 (2)	0.0000	0.75 (2)	0.0000	0.75 (2)
T4 200.00-180.00	0.0000	0.75 (3)	0.0000	0.75 (3)					0.0000	0.75 (3)	0.0000	0.75 (3)	0.0000	0.75 (3)
	0.0000	0.75 (4)	0.0000	0.75 (4)					0.0000	0.75 (4)	0.0000	0.75 (4)	0.0000	0.75 (4)
	0.0000	0.75 (1)	0.0000	0.75 (4)	0.0000	0.75 (1)	0.0000	0.75 (1)	0.0000	0.75 (1)	0.0000	0.75 (1)	0.0000	0.75 (1)
	0.0000	0.75 (2)	0.0000	0.75 (2)					0.0000	0.75 (2)	0.0000	0.75 (2)	0.0000	0.75 (2)
T5 180.00-160.00	0.0000	0.75 (3)	0.0000	0.75 (3)					0.0000	0.75 (3)	0.0000	0.75 (3)	0.0000	0.75 (3)
	0.0000	0.75 (4)	0.0000	0.75 (4)					0.0000	0.75 (4)	0.0000	0.75 (4)	0.0000	0.75 (4)
	0.0000	0.75 (1)	0.0000	0.75 (4)	0.0000	0.75 (1)	0.0000	0.75 (1)	0.0000	0.75 (1)	0.0000	0.75 (1)	0.0000	0.75 (1)
	0.0000	0.75 (2)	0.0000	0.75 (2)					0.0000	0.75 (2)	0.0000	0.75 (2)	0.0000	0.75 (2)
T6 160.00-140.00	0.0000	0.75 (3)	0.0000	0.75 (3)					0.0000	0.75 (3)	0.0000	0.75 (3)	0.0000	0.75 (3)
	0.0000	0.75 (4)	0.0000	0.75 (4)					0.0000	0.75 (4)	0.0000	0.75 (4)	0.0000	0.75 (4)
	0.0000	0.75 (1)	0.0000	0.75 (4)	0.0000	0.75 (1)	0.0000	0.75 (1)	0.0000	0.75 (1)	0.0000	0.75 (1)	0.0000	0.75 (1)
	0.0000	0.75 (2)	0.0000	0.75 (2)					0.0000	0.75 (2)	0.0000	0.75 (2)	0.0000	0.75 (2)
T7 140.00-130.00	0.0000	0.75 (3)	0.0000	0.75 (3)					0.0000	0.75 (3)	0.0000	0.75 (3)	0.0000	0.75 (3)
	0.0000	0.75 (4)	0.0000	0.75 (4)					0.0000	0.75 (4)	0.0000	0.75 (4)	0.0000	0.75 (4)
	0.0000	0.75 (1)	0.0000	0.75 (4)	0.0000	0.75 (1)	0.0000	0.75 (1)	0.0000	0.75 (1)	0.0000	0.75 (1)	0.0000	0.75 (1)
	0.0000	0.75 (2)	0.0000	0.75 (2)					0.0000	0.75 (2)	0.0000	0.75 (2)	0.0000	0.75 (2)
T8 130.00-120.00	0.0000	0.75 (3)	0.0000	0.75 (3)					0.0000	0.75 (3)	0.0000	0.75 (3)	0.0000	0.75 (3)
	0.0000	0.75 (4)	0.0000	0.75 (4)					0.0000	0.75 (4)	0.0000	0.75 (4)	0.0000	0.75 (4)
	0.0000	0.75 (1)	0.0000	0.75 (4)	0.0000	0.75 (1)	0.0000	0.75 (1)	0.0000	0.75 (1)	0.0000	0.75 (1)	0.0000	0.75 (1)
	0.0000	0.75 (2)	0.0000	0.75 (2)					0.0000	0.75 (2)	0.0000	0.75 (2)	0.0000	0.75 (2)

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Tower Elevation ft	Redundant Horizontal		Redundant Diagonal		Redundant Sub-Diagonal		Redundant Sub-Horizontal		Redundant Vertical		Redundant Hip		Redundant Hip Diagonal	
	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U
T9 120.00-117.00	0.0000	0.75 (3)	0.0000	0.75 (3)					0.0000	0.75 (3)	0.0000	0.75 (3)	0.0000	0.75 (3)
	0.0000	0.75 (4)	0.0000	0.75 (4)					0.0000	0.75 (4)	0.0000	0.75 (4)	0.0000	0.75 (4)
	0.0000	0.75 (1)	0.0000	0.75 (4)	0.0000	0.75 (2)	0.0000	0.75 (1)	0.0000	0.75 (1)	0.0000	0.75 (1)	0.0000	0.75 (1)
	0.0000	0.75 (2)	0.0000	0.75 (1)					0.0000	0.75 (2)	0.0000	0.75 (2)	0.0000	0.75 (2)
T10 117.00-114.67	0.0000	0.75 (3)	0.0000	0.75 (3)					0.0000	0.75 (3)	0.0000	0.75 (3)	0.0000	0.75 (3)
	0.0000	0.75 (4)	0.0000	0.75 (3)					0.0000	0.75 (4)	0.0000	0.75 (4)	0.0000	0.75 (4)
	0.0000	0.75 (1)	0.0000	0.75 (4)	0.0000	0.75 (2)	0.0000	0.75 (1)	0.0000	0.75 (1)	0.0000	0.75 (1)	0.0000	0.75 (1)
	0.0000	0.75 (2)	0.0000	0.75 (1)					0.0000	0.75 (2)	0.0000	0.75 (2)	0.0000	0.75 (2)
T11 114.67-112.33	0.0000	0.75 (3)	0.0000	0.75 (2)					0.0000	0.75 (3)	0.0000	0.75 (3)	0.0000	0.75 (3)
	0.0000	0.75 (4)	0.0000	0.75 (3)					0.0000	0.75 (4)	0.0000	0.75 (4)	0.0000	0.75 (4)
	0.0000	0.75 (1)	0.0000	0.75 (4)	0.0000	0.75 (2)	0.0000	0.75 (1)	0.0000	0.75 (1)	0.0000	0.75 (1)	0.0000	0.75 (1)
	0.0000	0.75 (2)	0.0000	0.75 (1)					0.0000	0.75 (2)	0.0000	0.75 (2)	0.0000	0.75 (2)
T12 112.33-110.00	0.0000	0.75 (3)	0.0000	0.75 (2)					0.0000	0.75 (3)	0.0000	0.75 (3)	0.0000	0.75 (3)
	0.0000	0.75 (4)	0.0000	0.75 (3)					0.0000	0.75 (4)	0.0000	0.75 (4)	0.0000	0.75 (4)
	0.0000	0.75 (1)	0.0000	0.75 (4)	0.0000	0.75 (2)	0.0000	0.75 (1)	0.0000	0.75 (1)	0.0000	0.75 (1)	0.0000	0.75 (1)
	0.0000	0.75 (2)	0.0000	0.75 (1)					0.0000	0.75 (2)	0.0000	0.75 (2)	0.0000	0.75 (2)
T13 110.00-107.67	0.0000	0.75 (3)	0.0000	0.75 (2)					0.0000	0.75 (3)	0.0000	0.75 (3)	0.0000	0.75 (3)
	0.0000	0.75 (4)	0.0000	0.75 (3)					0.0000	0.75 (4)	0.0000	0.75 (4)	0.0000	0.75 (4)
	0.0000	0.75 (1)	0.0000	0.75 (4)	0.0000	0.75 (2)	0.0000	0.75 (1)	0.0000	0.75 (1)	0.0000	0.75 (1)	0.0000	0.75 (1)
	0.0000	0.75 (2)	0.0000	0.75 (1)					0.0000	0.75 (2)	0.0000	0.75 (2)	0.0000	0.75 (2)
T14 107.67-105.33	0.0000	0.75 (3)	0.0000	0.75 (2)					0.0000	0.75 (3)	0.0000	0.75 (3)	0.0000	0.75 (3)
	0.0000	0.75 (4)	0.0000	0.75 (3)					0.0000	0.75 (4)	0.0000	0.75 (4)	0.0000	0.75 (4)
	0.0000	0.75 (1)	0.0000	0.75 (4)	0.0000	0.75 (2)	0.0000	0.75 (1)	0.0000	0.75 (1)	0.0000	0.75 (1)	0.0000	0.75 (1)
	0.0000	0.75 (2)	0.0000	0.75 (1)					0.0000	0.75 (2)	0.0000	0.75 (2)	0.0000	0.75 (2)
T15 105.33-103.00	0.0000	0.75 (3)	0.0000	0.75 (2)					0.0000	0.75 (3)	0.0000	0.75 (3)	0.0000	0.75 (3)
	0.0000	0.75 (4)	0.0000	0.75 (3)					0.0000	0.75 (4)	0.0000	0.75 (4)	0.0000	0.75 (4)
	0.0000	0.75 (1)	0.0000	0.75 (4)	0.0000	0.75 (2)	0.0000	0.75 (1)	0.0000	0.75 (1)	0.0000	0.75 (1)	0.0000	0.75 (1)
	0.0000	0.75 (2)	0.0000	0.75 (1)					0.0000	0.75 (2)	0.0000	0.75 (2)	0.0000	0.75 (2)

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Tower Elevation ft	Redundant Horizontal		Redundant Diagonal		Redundant Sub-Diagonal		Redundant Sub-Horizontal		Redundant Vertical		Redundant Hip		Redundant Hip Diagonal	
	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U
T16 103.00-100.00	0.0000	0.75 (3)	0.0000	0.75 (3)			0.0000	0.75 (4)	0.0000	0.75 (4)	0.0000	0.75 (3)	0.0000	0.75 (4)
	0.0000	0.75 (4)	0.0000	0.75 (4)			0.0000	0.75 (1)	0.0000	0.75 (1)	0.0000	0.75 (1)	0.0000	0.75 (1)
	0.0000	0.75 (2)	0.0000	0.75 (1)			0.0000	0.75 (2)	0.0000	0.75 (2)	0.0000	0.75 (2)	0.0000	0.75 (2)
	0.0000	0.75 (3)	0.0000	0.75 (2)			0.0000	0.75 (3)	0.0000	0.75 (3)	0.0000	0.75 (3)	0.0000	0.75 (3)
	0.0000	0.75 (4)	0.0000	0.75 (3)			0.0000	0.75 (4)	0.0000	0.75 (4)	0.0000	0.75 (4)	0.0000	0.75 (4)
T17 100.00-80.00	0.0000	0.75 (1)	0.0000	0.75 (1)	0.0000	0.75 (1)	0.0000	0.75 (1)	0.0000	0.75 (1)	0.0000	0.75 (1)	0.0000	0.75 (1)
	0.0000	0.75 (2)	0.0000	0.75 (2)			0.0000	0.75 (2)	0.0000	0.75 (2)	0.0000	0.75 (2)	0.0000	0.75 (2)
	0.0000	0.75 (3)	0.0000	0.75 (2)			0.0000	0.75 (3)	0.0000	0.75 (3)	0.0000	0.75 (3)	0.0000	0.75 (3)
	0.0000	0.75 (4)	0.0000	0.75 (3)			0.0000	0.75 (4)	0.0000	0.75 (4)	0.0000	0.75 (4)	0.0000	0.75 (4)
	0.0000	0.75 (1)	0.0000	0.75 (4)	0.0000	0.75 (4)	0.0000	0.75 (1)	0.0000	0.75 (1)	0.0000	0.75 (1)	0.0000	0.75 (1)
T18 80.00-60.00	0.0000	0.75 (1)	0.0000	0.75 (1)	0.0000	0.75 (1)	0.0000	0.75 (1)	0.0000	0.75 (1)	0.0000	0.75 (1)	0.0000	0.75 (1)
	0.0000	0.75 (2)	0.0000	0.75 (2)			0.0000	0.75 (2)	0.0000	0.75 (2)	0.0000	0.75 (2)	0.0000	0.75 (2)
	0.0000	0.75 (3)	0.0000	0.75 (2)			0.0000	0.75 (3)	0.0000	0.75 (3)	0.0000	0.75 (3)	0.0000	0.75 (3)
	0.0000	0.75 (4)	0.0000	0.75 (3)			0.0000	0.75 (4)	0.0000	0.75 (4)	0.0000	0.75 (4)	0.0000	0.75 (4)
	0.0000	0.75 (1)	0.0000	0.75 (4)	0.0000	0.75 (4)	0.0000	0.75 (1)	0.0000	0.75 (1)	0.0000	0.75 (1)	0.0000	0.75 (1)
T19 60.00-40.00	0.0000	0.75 (1)	0.0000	0.75 (1)	0.0000	0.75 (1)	0.0000	0.75 (1)	0.0000	0.75 (1)	0.0000	0.75 (1)	0.0000	0.75 (1)
	0.0000	0.75 (2)	0.0000	0.75 (2)			0.0000	0.75 (2)	0.0000	0.75 (2)	0.0000	0.75 (2)	0.0000	0.75 (2)
	0.0000	0.75 (3)	0.0000	0.75 (2)			0.0000	0.75 (3)	0.0000	0.75 (3)	0.0000	0.75 (3)	0.0000	0.75 (3)
	0.0000	0.75 (4)	0.0000	0.75 (3)			0.0000	0.75 (4)	0.0000	0.75 (4)	0.0000	0.75 (4)	0.0000	0.75 (4)
	0.0000	0.75 (1)	0.0000	0.75 (4)	0.0000	0.75 (4)	0.0000	0.75 (1)	0.0000	0.75 (1)	0.0000	0.75 (1)	0.0000	0.75 (1)
T20 40.00-20.00	0.0000	0.75 (1)	0.0000	0.75 (1)	0.0000	0.75 (1)	0.0000	0.75 (1)	0.0000	0.75 (1)	0.0000	0.75 (1)	0.0000	0.75 (1)
	0.0000	0.75 (2)	0.0000	0.75 (2)			0.0000	0.75 (2)	0.0000	0.75 (2)	0.0000	0.75 (2)	0.0000	0.75 (2)
	0.0000	0.75 (3)	0.0000	0.75 (2)			0.0000	0.75 (3)	0.0000	0.75 (3)	0.0000	0.75 (3)	0.0000	0.75 (3)
	0.0000	0.75 (4)	0.0000	0.75 (3)			0.0000	0.75 (4)	0.0000	0.75 (4)	0.0000	0.75 (4)	0.0000	0.75 (4)
	0.0000	0.75 (1)	0.0000	0.75 (4)	0.0000	0.75 (4)	0.0000	0.75 (1)	0.0000	0.75 (1)	0.0000	0.75 (1)	0.0000	0.75 (1)
T21 20.00-5.00	0.0000	0.75 (1)	0.0000	0.75 (1)	0.0000	0.75 (1)	0.0000	0.75 (1)	0.0000	0.75 (1)	0.0000	0.75 (1)	0.0000	0.75 (1)
	0.0000	0.75 (2)	0.0000	0.75 (2)			0.0000	0.75 (2)	0.0000	0.75 (2)	0.0000	0.75 (2)	0.0000	0.75 (2)
	0.0000	0.75 (3)	0.0000	0.75 (2)			0.0000	0.75 (3)	0.0000	0.75 (3)	0.0000	0.75 (3)	0.0000	0.75 (3)
	0.0000	0.75 (4)	0.0000	0.75 (3)			0.0000	0.75 (4)	0.0000	0.75 (4)	0.0000	0.75 (4)	0.0000	0.75 (4)
	0.0000	0.75 (1)	0.0000	0.75 (4)	0.0000	0.75 (4)	0.0000	0.75 (1)	0.0000	0.75 (1)	0.0000	0.75 (1)	0.0000	0.75 (1)
T22 5.00-0.00	0.0000	0.75 (1)	0.0000	0.75 (1)	0.0000	0.75 (1)	0.0000	0.75 (1)	0.0000	0.75 (1)	0.0000	0.75 (1)	0.0000	0.75 (1)
	0.0000	0.75 (2)	0.0000	0.75 (2)			0.0000	0.75 (2)	0.0000	0.75 (2)	0.0000	0.75 (2)	0.0000	0.75 (2)
	0.0000	0.75 (3)	0.0000	0.75 (2)			0.0000	0.75 (3)	0.0000	0.75 (3)	0.0000	0.75 (3)	0.0000	0.75 (3)
	0.0000	0.75 (4)	0.0000	0.75 (3)			0.0000	0.75 (4)	0.0000	0.75 (4)	0.0000	0.75 (4)	0.0000	0.75 (4)
	0.0000	0.75 (1)	0.0000	0.75 (4)	0.0000	0.75 (4)	0.0000	0.75 (1)	0.0000	0.75 (1)	0.0000	0.75 (1)	0.0000	0.75 (1)

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	0.0000	0.75 (2)	0.0000	0.75 (2)		0.0000	0.75 (2)	0.0000	0.75 (2)
	0.0000	0.75 (3)	0.0000	0.75 (3)		0.0000	0.75 (3)	0.0000	0.75 (3)
	0.0000	0.75 (4)	0.0000	0.75 (4)		0.0000	0.75 (4)	0.0000	0.75 (4)

Tower Section Geometry (cont'd)

Tower Elevation <i>f_f</i>	Leg Connection Type	Leg	No.	Diagonal	Top Girt	Bottom Girt	Mild Girt	Long Horizontal	Short Horizontal
		Bolt Size	No.	Bolt Size	No.	Bolt Size	No.	Bolt Size	No.
		in		in		in		in	in
T1	Sleeve DS	0.5625	6	0.5000	0	0.5000	0	0.6250	0
250.00-240.00		A325X		A325N		A325X		A325N	A325N
T2	Sleeve DS	0.5625	6	0.5000	0	0.5000	0	0.6250	0
240.00-220.00		A325X		A325N		A325X		A325N	A325N
T3	Sleeve DS	0.5625	6	0.5000	0	0.5000	0	0.6250	0
220.00-200.00		A325X		A325N		A325X		A325N	A325N
T4	Sleeve DS	0.5625	6	0.5000	0	0.5000	0	0.6250	0
200.00-180.00		A325X		A325N		A325X		A325N	A325N
T5	Sleeve DS	0.5625	6	0.6250	0	0.5000	0	0.6250	0
180.00-160.00		A325X		A325N		A325X		A325N	A325N
T6	Sleeve DS	0.5625	6	0.5000	0	0.5000	0	0.6250	0
160.00-140.00		A325X		A325N		A325X		A325N	A325N
T7	Sleeve DS	0.5625	0	0.5000	0	0.5000	0	0.6250	0
140.00-130.00		A325X		A325N		A325X		A325N	A325N
T8	Sleeve DS	0.5625	12	0.5000	0	0.5000	0	0.6250	0
130.00-120.00		A325X		A325N		A325X		A325N	A325N
T9	Sleeve DS	0.5625	0	0.5000	0	0.5000	0	0.6250	0
120.00-117.00		A325X		A325N		A325X		A325N	A325N
T10	Sleeve DS	0.5625	0	0.5000	0	0.5000	0	0.6250	0
117.00-114.67		A325X		A325N		A325X		A325N	A325N
T11	Sleeve DS	0.5625	0	0.5000	0	0.5000	0	0.6250	0
114.67-112.33		A325X		A325N		A325X		A325N	A325N
T12	Sleeve DS	0.5625	0	0.5000	0	0.5000	0	0.6250	0
112.33-110.00		A325X		A325N		A325X		A325N	A325N
T13	Sleeve DS	0.5625	0	0.5000	0	0.5000	0	0.6250	0
110.00-107.67		A325X		A325N		A325X		A325N	A325N
T14	Sleeve DS	0.5625	0	0.5000	0	0.5000	0	0.6250	0
107.67-105.33		A325X		A325N		A325X		A325N	A325N
T15	Sleeve DS	0.5625	0	0.5000	0	0.5000	0	0.6250	0
105.33-103.00		A325X		A325N		A325X		A325N	A325N
T16	Sleeve DS	0.5625	0	0.5000	0	0.5000	0	0.6250	0
103.00-100.00		A325X		A325N		A325X		A325N	A325N
T17	Sleeve DS	0.5625	0	0.5000	0	0.5000	0	0.6250	0
100.00-80.00		A325X		A325N		A325X		A325N	A325N
T18	Sleeve DS	0.5625	0	0.5000	0	0.5000	0	0.6250	0
80.00-60.00		A325X		A325N		A325X		A325N	A325N
T19	Sleeve DS	0.5625	0	0.5000	0	0.5000	0	0.6250	0
60.00-40.00		A325X		A325N		A325X		A325N	A325N
T20	Sleeve DS	0.5625	0	0.5000	0	0.5000	0	0.6250	0
40.00-20.00		A325X		A325N		A325X		A325N	A325N

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POD Group

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Tower Elevation ft	Leg Connection Type	Leg Bolt Size in	No.	Diagonal		Top Girt		Bottom Girt		Mid Girt		Long Horizontal		Short Horizontal	
				Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.
T21 20.00-5.00	Sleeve DS	0.5625	0	0.5000	0	0.5000	0	0.5000	0	0.6250	0	0.6250	0	0.6250	0
T22 5.00-0.00	Sleeve DS	A325X		A325N		A325X		A325X		A325N		A325N		A325N	
		0.5625	0	0.5000	0	0.5000	0	0.6250	0	0.6250	0	0.6250	0		
		A325X		A325N		A325X		A325X		A325N		A325N			

Guy Data

Guy Elevation	Guy Grade	Guy Size	Initial Tension	%	Guy Modulus	Guy Weight	L _w	Anchor Radius	Anchor Azimuth Adj.	Anchor Elevation	End Fitting Efficiency
ft			lb		ksi	plf	ft	ft		ft	%
237	EHS	A 9/16	4200.00	12%	21000	0.671	294.73	150.00	0.0000	-19.00	100%
		B 9/16	4200.00	12%	21000	0.671	286.11	150.00	0.0000	-9.00	100%
		C 9/16	4200.00	12%	21000	0.671	283.54	150.00	0.0000	-6.00	100%
177	EHS	A 7/16	2288.00	11%	23000	0.399	244.59	150.00	0.0000	-19.00	100%
		B 7/16	2288.00	11%	23000	0.399	236.66	150.00	0.0000	-9.00	100%
		C 7/16	2288.00	11%	23000	0.399	234.32	150.00	0.0000	-6.00	100%
117	EHS	A 3/8	1386.00	9%	21000	0.273	199.85	150.00	0.0000	-19.00	100%
		B 3/8	1386.00	9%	21000	0.273	193.19	150.00	0.0000	-9.00	100%
		C 3/8	1386.00	9%	21000	0.273	191.26	150.00	0.0000	-6.00	100%
59.3333	EHS	A 3/8	1848.00	12%	21000	0.273	167.50	150.00	0.0000	-19.00	100%
		B 3/8	1848.00	12%	21000	0.273	163.08	150.00	0.0000	-9.00	100%
		C 3/8	1848.00	12%	21000	0.273	161.85	150.00	0.0000	-6.00	100%

Guy Data(cont'd)

Guy Elevation ft	Mount Type	Torque-Arm Spread ft	Torque-Arm Leg Angle °	Torque-Arm Style	Torque-Arm Grade	Torque-Arm Type	Torque-Arm Size
237	Torque Arm	12.00	15.0000	Wing	A36 (36 ksi)	Double Equal Angle	2L3x3x5/16x3/8
177	Torque Arm	12.00	15.0000	Wing	A36 (36 ksi)	Double Equal Angle	2L3x3x5/16x3/8
117	Torque Arm	12.00	15.0000	Wing	A36 (36 ksi)	Double Equal Angle	2L3x3x5/16x3/8
59.3333	Corner						

Guy Data (cont'd)

Guy Elevation ft	Diagonal Grade	Diagonal Type	Upper Diagonal Size	Lower Diagonal Size	Is Strap.	Pull-Off Grade	Pull-Off Type	Pull-Off Size
237.00	A572-50 (50 ksi)	Solid Round			No	A572-50 (50 ksi)	Arbitrary Shape	(2) 7/8" SR

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Guy Elevation ft	Diagonal Grade	Diagonal Type	Upper Diagonal Size	Lower Diagonal Size	Is Strap	Pull-Off Grade	Pull-Off Type	Pull-Off Size
177.00	A572-50 (50 ksi)	Solid Round			No	A572-50 (50 ksi)	Arbitrary Shape	(2) 7/8" SR
117.00	A572-50 (50 ksi)	Solid Round			No	A572-50 (50 ksi)	Arbitrary Shape	(2) 7/8" SR
59.33	A572-50 (50 ksi)	Solid Round			No	A572-50 (50 ksi)	Solid Round	0.75 SR

Guy Data (cont'd)

Guy Elevation ft	Cable Weight lb	Cable Weight lb	Cable Weight lb	Cable Weight lb	Tower Intercept ft	Tower Intercept ft	Tower Intercept ft	Tower Intercept ft
237	197.76	191.98	190.25		6.81	6.42	6.31	
					4.5 sec/pulse	4.4 sec/pulse	4.3 sec/pulse	
177	97.59	94.43	93.49		5.13	4.81	4.72	
					3.9 sec/pulse	3.8 sec/pulse	3.7 sec/pulse	
117	54.56	52.74	52.21		3.89	3.63	3.56	
					3.4 sec/pulse	3.3 sec/pulse	3.3 sec/pulse	
59.3333	45.73	44.52	44.18		2.06	1.96	1.93	
					2.5 sec/pulse	2.4 sec/pulse	2.4 sec/pulse	

Guy Data (cont'd)

Guy Elevation ft	Calc K Single Angles	Calc K Solid Rounds	Torque Arm			Pull Off			Diagonal	
			K _t	K _p	K _r	K _t	K _p	K _r	K _t	K _p
237	No	No		1		0.7636	0.7636		1	1
177	No	No		1		0.7636	0.7636		1	1
117	No	No		1		0.7636			1	1
59.3333	No	No		1			1		1	1

Guy Data (cont'd)

Guy Elevation ft	Torque-Arm			Pull Off			Diagonal		
	Bolt Size in	Number	Net Width in	U	Bolt Size in	Number	Net Width in	U	Bolt Size in
237	0.0000	0	0.0000	1	0.6250	0	0.0000	0.75	0.6250
	A325N				A325N				A325N
177	0.0000	0	0.0000	1	0.6250	0	0.0000	0.75	0.6250
	A325N				A325N				A325N
117	0.0000	0	0.0000	1	0.6250	0	0.0000	0.75	0.6250
	A325N				A325N				A325N
59.3333	0.6250	0	0.0000	0.75	0.6250	0	0.0000	0.75	0.6250
	A325N				A325N				A325N

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Guy Pressures

Guy Elevation ft	Guy Location	z ft	q _z psf	q _z ice psf	Ice Thickness in
237	A	109.00	0	0	1.1269
	B	114.00	0	0	1.1320
	C	115.50	0	0	1.1335
177	A	79.00	0	0	1.0912
	B	84.00	0	0	1.0979
	C	85.50	0	0	1.0999
117	A	49.00	0	0	1.0403
	B	54.00	0	0	1.0505
	C	55.50	0	0	1.0534
59 3333	A	20.17	0	0	0.9519
	B	25.17	0	0	0.9733
	C	26.67	0	0	0.9789

Feed Line/Linear Appurtenances - Entered As Round Or Flat

Description	Face Allow or Shield Leg	Exclude From Torque Calculation	Component Type	Placement ft	Total Number	Number Per Row	Clear Spacing in	Width or Diameter in	Perimeter in	Weight plf

Feed Line/Linear Appurtenances Section Areas

Tower Section	Tower Elevation ft	Face	A _r ft ²	A _r ft ²	C _r A _r In Face ft ²	C _r A _r Out Face ft ²	Weight lb
T1	230.00-240.00	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	0.000	0.000	0.00
T2	240.00-220.00	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	0.000	0.000	0.00
T3	220.00-200.00	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	0.000	0.000	0.00
T4	200.00-180.00	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	0.000	0.000	0.00
T5	180.00-160.00	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	0.000	0.000	0.00
T6	160.00-140.00	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	0.000	0.000	0.00
T7	140.00-130.00	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	0.000	0.000	0.00
T8	130.00-120.00	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	0.000	0.000	0.00

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Tower Section	Tower Elevation ft	Face	A _r ft ²	A _r ft ²	C _i ,A _i In Face ft ²	C _i ,A _i Out Face ft ²	Weight lb
T9	120.00-117.00	C	0.000	0.000	0.000	0.000	0.00
		A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.00	0.00
T10	117.00-114.67	C	0.000	0.000	0.000	0.000	0.00
		A	0.000	0.000	0.000	0.00	0.00
		B	0.000	0.000	0.000	0.00	0.00
T11	114.67-112.33	C	0.000	0.000	0.000	0.000	0.00
		A	0.000	0.000	0.000	0.00	0.00
		B	0.000	0.000	0.000	0.00	0.00
T12	112.33-110.00	C	0.000	0.000	0.000	0.000	0.00
		A	0.000	0.000	0.000	0.00	0.00
		B	0.000	0.000	0.000	0.00	0.00
T13	110.00-107.67	C	0.000	0.000	0.000	0.000	0.00
		A	0.000	0.000	0.000	0.00	0.00
		B	0.000	0.000	0.000	0.00	0.00
T14	107.67-105.33	C	0.000	0.000	0.000	0.000	0.00
		A	0.000	0.000	0.000	0.00	0.00
		B	0.000	0.000	0.000	0.00	0.00
T15	105.33-103.00	C	0.000	0.000	0.000	0.000	0.00
		A	0.000	0.000	0.000	0.00	0.00
		B	0.000	0.000	0.000	0.00	0.00
T16	103.00-100.00	C	0.000	0.000	0.000	0.000	0.00
		A	0.000	0.000	0.000	0.00	0.00
		B	0.000	0.000	0.000	0.00	0.00
T17	100.00-80.00	C	0.000	0.000	0.000	0.000	0.00
		A	0.000	0.000	0.000	0.00	0.00
		B	0.000	0.000	0.000	0.00	0.00
T18	80.00-60.00	C	0.000	0.000	0.000	0.000	0.00
		A	0.000	0.000	0.000	0.00	0.00
		B	0.000	0.000	0.000	0.00	0.00
T19	60.00-40.00	C	0.000	0.000	0.000	0.000	0.00
		A	0.000	0.000	0.000	0.00	0.00
		B	0.000	0.000	0.000	0.00	0.00
T20	40.00-20.00	C	0.000	0.000	0.000	0.000	0.00
		A	0.000	0.000	0.000	0.00	0.00
		B	0.000	0.000	0.000	0.00	0.00
T21	20.00-5.00	C	0.000	0.000	0.000	0.000	0.00
		A	0.000	0.000	0.000	0.00	0.00
		B	0.000	0.000	0.000	0.00	0.00
T22	5.00-0.00	C	0.000	0.000	0.000	0.000	0.00
		A	0.000	0.000	0.000	0.00	0.00
		B	0.000	0.000	0.000	0.00	0.00

Feed Line/linear Appurtenances Section Areas - With Ice

Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A _r ft ²	A _r ft ²	C _i ,A _i In Face ft ²	C _i ,A _i Out Face ft ²	Weight lb
T1	250.00-240.00	A	1.222	0.000	0.000	0.000	0.00	0.00
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	0.000	0.000	0.00
T2	240.00-220.00	A	1.214	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	0.000	0.000	0.00
T3	220.00-200.00	A	1.203	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	0.000	0.000	0.00

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Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A _R ft ²	A _F ft ²	C _{A,F} In Face ft ²	C _{A,F} Out Face ft ²	Weight lb
T4	200.00-180.00	A B C	1.191	0.000 0.000 0.000	0.000 0.000 0.000	0.000 0.000 0.000	0.000 0.000 0.00	0.00 0.00 0.00
T5	180.00-160.00	A B C	1.178	0.000 0.000 0.000	0.000 0.000 0.000	0.000 0.000 0.00	0.000 0.000 0.00	0.00 0.00 0.00
T6	160.00-140.00	A B C	1.163	0.000 0.000 0.000	0.000 0.000 0.000	0.000 0.000 0.00	0.000 0.000 0.00	0.00 0.00 0.00
T7	140.00-130.00	A B C	1.151	0.000 0.000 0.000	0.000 0.000 0.000	0.000 0.000 0.00	0.000 0.000 0.00	0.00 0.00 0.00
T8	130.00-120.00	A B C	1.142	0.000 0.000 0.000	0.000 0.000 0.000	0.000 0.000 0.000	0.000 0.000 0.00	0.00 0.00 0.00
T9	120.00-117.00	A B C	1.136	0.000 0.000 0.000	0.000 0.000 0.000	0.000 0.000 0.000	0.000 0.000 0.000	0.00 0.00 0.00
T10	117.00-114.67	A B C	1.134	0.000 0.000 0.000	0.000 0.000 0.000	0.000 0.000 0.000	0.000 0.000 0.000	0.00 0.00 0.00
T11	114.67-112.33	A B C	1.131	0.000 0.000 0.000	0.000 0.000 0.000	0.000 0.000 0.000	0.000 0.000 0.000	0.00 0.00 0.00
T12	112.33-110.00	A B C	1.129	0.000 0.000 0.000	0.000 0.000 0.000	0.000 0.000 0.000	0.000 0.000 0.000	0.00 0.00 0.00
T13	110.00-107.67	A B C	1.127	0.000 0.000 0.000	0.000 0.000 0.000	0.000 0.000 0.000	0.000 0.000 0.000	0.00 0.00 0.00
T14	107.67-105.33	A B C	1.124	0.000 0.000 0.000	0.000 0.000 0.000	0.000 0.000 0.000	0.000 0.000 0.000	0.00 0.00 0.00
T15	105.33-103.00	A B C	1.122	0.000 0.000 0.000	0.000 0.000 0.000	0.000 0.000 0.000	0.000 0.000 0.000	0.00 0.00 0.00
T16	103.00-100.00	A B C	1.119	0.000 0.000 0.000	0.000 0.000 0.000	0.000 0.000 0.000	0.000 0.000 0.000	0.00 0.00 0.00
T17	100.00-80.00	A B C	1.106	0.000 0.000 0.000	0.000 0.000 0.000	0.000 0.000 0.000	0.000 0.000 0.000	0.00 0.00 0.00
T18	80.00-60.00	A B C	1.078	0.000 0.000 0.000	0.000 0.000 0.000	0.000 0.000 0.000	0.000 0.000 0.000	0.00 0.00 0.00
T19	60.00-40.00	A B C	1.042	0.000 0.000 0.000	0.000 0.000 0.000	0.000 0.000 0.000	0.000 0.000 0.000	0.00 0.00 0.00
T20	40.00-20.00	A B C	0.991	0.000 0.000 0.000	0.000 0.000 0.000	0.000 0.000 0.000	0.000 0.000 0.000	0.00 0.00 0.00
T21	20.00-5.00	A B C	0.907	0.000 0.000 0.000	0.000 0.000 0.000	0.000 0.000 0.000	0.000 0.000 0.000	0.00 0.00 0.00
T22	5.00-0.00	A B C	0.773	0.000 0.000 0.000	0.000 0.000 0.000	0.000 0.000 0.000	0.000 0.000 0.000	0.00 0.00 0.00

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Feed Line Center of Pressure

Section	Elevation <i>ft</i>	CP _x <i>in</i>	CP _z <i>in</i>	CP _x <i>Ice</i> <i>in</i>	CP _z <i>Ice</i> <i>in</i>
T1	250.00-240.00	0.0000	0.0000	0.0000	0.0000
T2	240.00-220.00	0.0000	0.0000	0.0000	0.0000
T3	220.00-200.00	0.0000	0.0000	0.0000	0.0000
T4	200.00-180.00	0.0000	0.0000	0.0000	0.0000
T5	180.00-160.00	0.0000	0.0000	0.0000	0.0000
T6	160.00-140.00	0.0000	0.0000	0.0000	0.0000
T7	140.00-130.00	0.0000	0.0000	0.0000	0.0000
T8	130.00-120.00	0.0000	0.0000	0.0000	0.0000
T9	120.00-117.00	0.0000	0.0000	0.0000	0.0000
T10	117.00-114.67	0.0000	0.0000	0.0000	0.0000
T11	114.67-112.33	0.0000	0.0000	0.0000	0.0000
T12	112.33-110.00	0.0000	0.0000	0.0000	0.0000
T13	110.00-107.67	0.0000	0.0000	0.0000	0.0000
T14	107.67-105.33	0.0000	0.0000	0.0000	0.0000
T15	105.33-103.00	0.0000	0.0000	0.0000	0.0000
T16	103.00-100.00	0.0000	0.0000	0.0000	0.0000
T17	100.00-80.00	0.0000	0.0000	0.0000	0.0000
T18	80.00-60.00	0.0000	0.0000	0.0000	0.0000
T19	60.00-40.00	0.0000	0.0000	0.0000	0.0000
T20	40.00-20.00	0.0000	0.0000	0.0000	0.0000
T21	20.00-5.00	0.0000	0.0000	0.0000	0.0000
T22	5.00-0.00	0.0000	0.0000	0.0000	0.0000

User Defined Loads - Seismic

Description	Elevation <i>ft</i>	Offset From Centroid <i>ft</i>	Azimuth Angle °	E _y <i>lb</i>	E _{ux} <i>lb</i>	E _{uz} <i>lb</i>	E _u <i>lb</i>
Seismic Tower Section 1	245.00	0.00	0.0000	19.99	0.00	0.00	41.19
Seismic Tower Section 2	230.00	0.00	0.0000	95.44	0.00	0.00	184.61
Seismic Tower Section 3	210.00	0.00	0.0000	48.95	0.00	0.00	86.45
Seismic Tower Section 4	190.00	0.00	0.0000	48.95	0.00	0.00	78.22
Seismic Tower Section 5	170.00	0.00	0.0000	104.76	0.00	0.00	149.77
Seismic Tower Section 6	150.00	0.00	0.0000	48.95	0.00	0.00	61.74
Seismic Tower Section 7	135.00	0.00	0.0000	24.83	0.00	0.00	38.19
Seismic Tower Section 8	125.00	0.00	0.0000	31.71	0.00	0.00	33.33
Seismic Tower Section 9	118.50	0.00	0.0000	11.47	0.00	0.00	11.43
Seismic Tower Section 10	115.84	0.00	0.0000	61.93	0.00	0.00	60.32
Seismic Tower Section 11	113.50	0.00	0.0000	7.46	0.00	0.00	7.12
Seismic Tower Section 12	111.17	0.00	0.0000	7.44	0.00	0.00	6.95
Seismic Tower Section 13	108.84	0.00	0.0000	6.85	0.00	0.00	6.27
Seismic Tower Section 14	106.50	0.00	0.0000	6.36	0.00	0.00	5.69
Seismic Tower Section 15	104.17	0.00	0.0000	6.34	0.00	0.00	5.55
Seismic Tower Section 16	101.50	0.00	0.0000	8.80	0.00	0.00	7.51
Seismic Tower Section 17	90.00	0.00	0.0000	54.91	0.00	0.00	41.55
Seismic Tower Section 18	70.00	0.00	0.0000	48.15	0.00	0.00	28.33
Seismic Tower Section 19	50.00	0.00	0.0000	48.15	0.00	0.00	20.24
Seismic Tower Section 20	30.00	0.00	0.0000	48.15	0.00	0.00	12.14
Seismic Tower Section 21	12.50	0.00	0.0000	35.34	0.00	0.00	3.71
Seismic Tower Section 22	2.50	0.00	0.0000	12.50	0.00	0.00	0.26
Seismic Guy Level 1	237.00	0.00	0.0000	31.15	0.00	0.00	62.09
Seismic Guy Level 2	177.00	0.00	0.0000	15.33	0.00	0.00	22.82

inxTower

POD Group

1033 E turkeyfoot Lake Rd, Suite 206

Green OH- 44312

Phone: 330-961-7440

FAX:

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Project	26-195249	Date
Client	Array Inc.	11:58:56 05/21/26
		Designed by utoluganti

Description	Elevation	Offset From Centroid	Azimuth Angle	E _v	E _{inc}	E _{inc}	E _h
	ft	ft	°	lb	lb	lb	lb
Seismic Guy Level 3	117.00	0.00	0.0000	8.57	0.00	0.00	8.43
Seismic Guy Level 4	59.33	0.00	0.0000	3.61	0.00	0.00	1.80
Seismic miscel 5/8"x4" Lightning	250.00	0.00	0.0000	0.27	0.00	0.00	0.56
Rod							
Seismic miscel Flash Beacon	250.00	0.00	0.0000	1.88	0.00	0.00	3.95
Seismic kaelus(pod)	245.00	0.00	0.0000	9.61	0.00	0.00	19.81
P6RQLU01-V1-P3 w/ Mount							
Pipe							
Seismic kaelus(pod)	245.00	0.00	0.0000	9.61	0.00	0.00	19.81
P6RQLU01-V1-P3 w/ Mount							
Pipe							
Seismic kaelus(pod)	245.00	0.00	0.0000	9.61	0.00	0.00	19.81
P6RQLU01-V1-P3 w/ Mount							
Pipe							
Seismic ericsson(pod) AIR	245.00	0.00	0.0000	6.30	0.00	0.00	12.98
6419 B41 w/ Mount Pipe							
Seismic ericsson(pod) AIR	245.00	0.00	0.0000	6.30	0.00	0.00	12.98
6419 B41 w/ Mount Pipe							
Seismic ericsson(pod) AIR	245.00	0.00	0.0000	6.30	0.00	0.00	12.98
6419 B41 w/ Mount Pipe							
Seismic ericsson(pod) 4495	245.00	0.00	0.0000	3.55	0.00	0.00	7.32
B71 + B85A							
Seismic ericsson(pod) 4495	245.00	0.00	0.0000	3.55	0.00	0.00	7.32
B71 + B85A							
Seismic ericsson(pod) 4495	245.00	0.00	0.0000	3.55	0.00	0.00	7.32
B71 + B85A							
Seismic ericsson(pod) 4460	245.00	0.00	0.0000	5.85	0.00	0.00	12.06
B25+B66							
Seismic ericsson(pod) 4460	245.00	0.00	0.0000	5.85	0.00	0.00	12.06
B25+B66							
Seismic ericsson(pod) 4460	245.00	0.00	0.0000	5.85	0.00	0.00	12.06
B25+B66							
Seismic 12' Sector Mounts(3)	245.00	0.00	0.0000	83.30	0.00	0.00	171.65
Seismic tower mounts () P1rod	226.00	0.00	0.0000	13.43	0.00	0.00	25.52
10' Box Arm							
Seismic commscope (pod)	218.50	0.00	0.0000	3.72	0.00	0.00	6.83
NHH-85B-R2M w/ Mount Pipe							
Seismic commscope (pod)	218.50	0.00	0.0000	3.72	0.00	0.00	6.83
NHH-85B-R2M w/ Mount Pipe							
Seismic commscope (pod)	218.50	0.00	0.0000	3.72	0.00	0.00	6.83
NHH-85B-R2M w/ Mount Pipe							
Seismic commscope (pod)	218.50	0.00	0.0000	3.72	0.00	0.00	6.83
NHH-85B-R2M w/ Mount Pipe							
Seismic samsung (pod)	218.50	0.00	0.0000	4.65	0.00	0.00	8.54
MT6413 77A w/ Mount Pipe							
Seismic samsung (pod)	218.50	0.00	0.0000	4.65	0.00	0.00	8.54
MT6413 77A w/ Mount Pipe							
Seismic samsung (pod)	218.50	0.00	0.0000	4.03	0.00	0.00	7.40
RF4439d-25A							
Seismic samsung (pod)	218.50	0.00	0.0000	4.03	0.00	0.00	7.40
RF4439d-25A							
Seismic samsung (pod)	218.50	0.00	0.0000	2.13	0.00	0.00	3.92
RF4461d-13A_320W_B13-B5							
RRH							
Seismic samsung (pod)	218.50	0.00	0.0000	2.13	0.00	0.00	3.92
RF4461d-13A_320W_B13-B5							
RRH							
Seismic raycap (pod)	218.50	0.00	0.0000	1.72	0.00	0.00	3.16
RC3DC-3315-PF-48							
Seismic raycap (pod)	218.50	0.00	0.0000	1.72	0.00	0.00	3.16

tnxTower POD Group 1033 E turkeyfoot Lake Rd. Suite 206 Green OH- 44312 Phone: 330-961-7440 FAX:	Job	425322	Page 22 of 50
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	Client	Array Inc.	Designed by utoluganti

Description	Elevation	Offset From Centroid	Azimuth Angle	E _v	E _{hv}	E _{htz}	E _h
	ft	ft	°	lb	lb	lb	lb
RC3DC-3315-PF-48							
Seismic sitepro1 (pod)	218.50	0.00	0.0000	35.34	0.00	0.00	64.94
VFA12-HD							
Seismic sitepro1 (pod)	218.50	0.00	0.0000	35.34	0.00	0.00	64.94
VFA12-HD							
Seismic misc1 Dish Mount	215.00	0.00	0.0000	4.62	0.00	0.00	8.35
Seismic ericsson(pod) RRUS	198.00	0.00	0.0000	2.95	0.00	0.00	4.92
11E B12							
Seismic ericsson(pod) RRUS	198.00	0.00	0.0000	2.95	0.00	0.00	4.92
11E B12							
Seismic ericsson(pod) RRUS	198.00	0.00	0.0000	2.95	0.00	0.00	4.92
11E B12							
Seismic raycap (pod)	198.00	0.00	0.0000	1.01	0.00	0.00	1.69
DC6-48-60-18-8F							
Seismic raycap (pod)	198.00	0.00	0.0000	1.01	0.00	0.00	1.69
DC6-48-60-18-8F							
Seismic raycap (pod)	198.00	0.00	0.0000	1.01	0.00	0.00	1.69
DC6-48-60-18-8F							
Seismic RRH Mount	198.00	0.00	0.0000	4.30	0.00	0.00	7.15
Seismic RRH Mount	198.00	0.00	0.0000	4.30	0.00	0.00	7.15
Seismic RRH Mount	198.00	0.00	0.0000	4.30	0.00	0.00	7.15
Seismic (3) kmw (pod)	195.00	0.00	0.0000	14.29	0.00	0.00	23.44
AM-X-CD-17-65-00T-RET w/ Mount Pipe							
Seismic (3) kmw (pod)	195.00	0.00	0.0000	14.29	0.00	0.00	23.44
AM-X-CD-17-65-00T-RET w/ Mount Pipe							
Seismic (3) kmw (pod)	195.00	0.00	0.0000	14.29	0.00	0.00	23.44
AM-X-CD-17-65-00T-RET w/ Mount Pipe							
Seismic HPA65R-BU8A_TIA w/ Mount Pipe	195.00	0.00	0.0000	5.22	0.00	0.00	8.56
Seismic HPA65R-BU8A_TIA w/ Mount Pipe	195.00	0.00	0.0000	5.22	0.00	0.00	8.56
Seismic HPA65R-BU8A_TIA w/ Mount Pipe	195.00	0.00	0.0000	5.22	0.00	0.00	8.56
Seismic ericsson(pod) RRUS	195.00	0.00	0.0000	3.19	0.00	0.00	5.23
4478 B12A							
Seismic ericsson(pod) RRUS	195.00	0.00	0.0000	3.19	0.00	0.00	5.23
4478 B12A							
Seismic ericsson(pod) RRUS	195.00	0.00	0.0000	3.19	0.00	0.00	5.23
4478 B12A							
Seismic ericsson(pod) RRUS	195.00	0.00	0.0000	2.49	0.00	0.00	4.08
4415 B25							
Seismic ericsson(pod) RRUS	195.00	0.00	0.0000	2.49	0.00	0.00	4.08
4415 B25							
Seismic ericsson(pod) RRUS	195.00	0.00	0.0000	2.49	0.00	0.00	4.08
4415 B25							
Seismic 13' Sector Mount	195.00	0.00	0.0000	123.09	0.00	0.00	201.87
Seismic ericsson(pod) AIR	185.00	0.00	0.0000	6.30	0.00	0.00	9.80
6419 B41 w/ Mount Pipe							
Seismic ericsson(pod) AIR	185.00	0.00	0.0000	6.30	0.00	0.00	9.80
6419 B41 w/ Mount Pipe							
Seismic ericsson(pod) AIR	185.00	0.00	0.0000	6.30	0.00	0.00	9.80
6419 B41 w/ Mount Pipe							
Seismic rfs (pod)	185.00	0.00	0.0000	2.33	0.00	0.00	3.62
APXVLL19P_43-C-A20 w/ Mount Pipe							
Seismic rfs (pod)	185.00	0.00	0.0000	2.33	0.00	0.00	3.62
APXVLL19P_43-C-A20 w/							

Description	Elevation	Offset From Centroid	Azimuth Angle	E _v	E _{h_c}	E _{h_z}	E _h
Mount Pipe	185.00	0.00	0.0000	2.33	0.00	0.00	3.62
Seismic rfs (pod)	APXVLL19P_43-C-A20 w/						
Mount Pipe	185.00	0.00	0.0000	8.44	0.00	0.00	13.14
Seismic	APXVAALL24_43-U-NA20 w/						
Mount Pipe	185.00	0.00	0.0000	8.44	0.00	0.00	13.14
Seismic	APXVAALL24_43-U-NA20 w/						
Mount Pipe	185.00	0.00	0.0000	8.44	0.00	0.00	13.14
Seismic	APXVAALL24_43-U-NA20 w/						
Mount Pipe	185.00	0.00	0.0000	4.51	0.00	0.00	7.02
Seismic ericsson(pod) 4480	B71+B85						
Seismic ericsson(pod) 4480	B71+B85						
Seismic ericsson(pod) 4480	B71+B85						
Seismic ericsson(pod) 4460	B25+B66						
Seismic ericsson(pod) 4460	B25+B66						
Seismic ericsson(pod) 4460	B25+B66						
Seismic ericsson(pod) 4460	B25+B66						
Seismic siteprol (pod)	VFA12-HD						
Seismic siteprol (pod)	VFA12-HD						
Seismic siteprol (pod)	VFA12-HD						
Seismic 8' Yagi	Seismic 30" Omni Whip						
Seismic 8' Yagi	171.00	0.00	0.0000	0.13	0.00	0.00	1.80
Seismic 8' Yagi	164.00	0.00	0.0000	0.81	0.00	0.00	1.11
Seismic 8' Yagi	161.00	0.00	0.0000	0.81	0.00	0.00	1.09
Seismic 13' Yagi	152.00	0.00	0.0000	1.07	0.00	0.00	1.37
Seismic 13' Yagi	144.00	0.00	0.0000	1.07	0.00	0.00	1.30
Seismic 8' Yagi	140.00	0.00	0.0000	0.81	0.00	0.00	1.30
Seismic 8' Yagi	136.00	0.00	0.0000	0.81	0.00	0.00	0.95
Seismic 8' Yagi	133.50	0.00	0.0000	0.81	0.00	0.00	0.92
Seismic 15' Yagi	130.00	0.00	0.0000	1.34	0.00	0.00	0.90
Seismic 8' Yagi	130.00	0.00	0.0000	0.81	0.00	0.00	1.47
Seismic 15' Yagi	111.00	0.00	0.0000	1.34	0.00	0.00	0.88
Seismic 15' Yagi	104.00	0.00	0.0000	1.34	0.00	0.00	1.25
Seismic 39" x 19" x 8" Panel	101.00	0.00	0.0000	7.24	0.00	0.00	1.17
Seismic miscel 2.5" OD 5' Pipe	101.00	0.00	0.0000	0.98	0.00	0.00	6.15
Seismic miscel 6' Grid Dish	161.00	0.00	0.0000	5.37	0.00	0.00	7.27
Seismic P4-57W-PXA	215.00	0.00	0.0000	9.13	0.00	0.00	16.51
Seismic miscel Safety Line 3/8	245.00	0.00	0.0000	0.12	0.00	0.00	0.24
From 0 to 250 (240ft to250ft)	230.00	0.00	0.0000	0.24	0.00	0.00	0.46
Seismic miscel Safety Line 3/8	210.00	0.00	0.0000	0.24	0.00	0.00	0.42
From 0 to 250 (200ft to220ft)	190.00	0.00	0.0000	0.24	0.00	0.00	0.38
Seismic miscel Safety Line 3/8	170.00	0.00	0.0000	0.24	0.00	0.00	0.34
From 0 to 250 (180ft to200ft)	150.00	0.00	0.0000	0.24	0.00	0.00	0.30
Seismic miscel Safety Line 3/8							
From 0 to 250 (160ft to180ft)							
Seismic miscel Safety Line 3/8							

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	Project	26-195249	Date	11:58:56 05/21/26
	Client	Array Inc.	Designed by	utoluganti

Description	Elevation	Offset From Centroid	Azimuth Angle	E_x	E_{rx}	E_{rz}	E_h
	ft	ft	°	lb	lb	lb	lb
From 0 to 250 (140ft to160ft)							
Seismic miscel Safety Line 3/8	135.00	0.00	0.0000	0.12	0.00	0.00	0.13
From 0 to 250 (130ft to140ft)							
Seismic miscel Safety Line 3/8	125.00	0.00	0.0000	0.12	0.00	0.00	0.12
From 0 to 250 (120ft to130ft)							
Seismic miscel Safety Line 3/8	118.50	0.00	0.0000	0.04	0.00	0.00	0.04
From 0 to 250 (117ft to120ft)							
Seismic miscel Safety Line 3/8	115.84	0.00	0.0000	0.03	0.00	0.00	0.03
From 0 to 250 (114.67ft to117ft)							
Seismic miscel Safety Line 3/8	113.50	0.00	0.0000	0.03	0.00	0.00	0.03
From 0 to 250 (112.33ft to114.67ft)							
Seismic miscel Safety Line 3/8	111.17	0.00	0.0000	0.03	0.00	0.00	0.03
From 0 to 250 (110ft to112.33ft)							
Seismic miscel Safety Line 3/8	108.84	0.00	0.0000	0.03	0.00	0.00	0.03
From 0 to 250 (107.67ft to110ft)							
Seismic miscel Safety Line 3/8	106.50	0.00	0.0000	0.03	0.00	0.00	0.02
From 0 to 250 (105.33ft to107.67ft)							
Seismic miscel Safety Line 3/8	104.17	0.00	0.0000	0.03	0.00	0.00	0.02
From 0 to 250 (103ft to105.33ft)							
Seismic miscel Safety Line 3/8	101.50	0.00	0.0000	0.04	0.00	0.00	0.03
From 0 to 250 (100ft to103ft)							
Seismic miscel Safety Line 3/8	90.00	0.00	0.0000	0.24	0.00	0.00	0.18
From 0 to 250 (80ft to100ft)							
Seismic miscel Safety Line 3/8	70.00	0.00	0.0000	0.24	0.00	0.00	0.14
From 0 to 250 (60ft to80ft)							
Seismic miscel Safety Line 3/8	50.00	0.00	0.0000	0.24	0.00	0.00	0.10
From 0 to 250 (40ft to60ft)							
Seismic miscel Safety Line 3/8	30.00	0.00	0.0000	0.24	0.00	0.00	0.06
From 0 to 250 (20ft to40ft)							
Seismic miscel Safety Line 3/8	12.50	0.00	0.0000	0.18	0.00	0.00	0.02
From 0 to 250 (5ft to20ft)							
Seismic miscel Safety Line 3/8	2.50	0.00	0.0000	0.06	0.00	0.00	0.00
From 0 to 250 (0ft to5ft)							
Seismic Feedline Ladder (Af)	245.00	0.00	0.0000	1.07	0.00	0.00	2.21
From 0 to 250 (240ft to250ft)							
Seismic Feedline Ladder (Af)	230.00	0.00	0.0000	2.15	0.00	0.00	4.16
From 0 to 250 (220ft to240ft)							
Seismic Feedline Ladder (Af)	210.00	0.00	0.0000	2.15	0.00	0.00	3.79
From 0 to 250 (200ft to220ft)							
Seismic Feedline Ladder (Af)	190.00	0.00	0.0000	2.15	0.00	0.00	3.43
From 0 to 250 (180ft to200ft)							
Seismic Feedline Ladder (Af)	170.00	0.00	0.0000	2.15	0.00	0.00	3.07
From 0 to 250 (160ft to180ft)							
Seismic Feedline Ladder (Af)	150.00	0.00	0.0000	2.15	0.00	0.00	2.71
From 0 to 250 (140ft to160ft)							
Seismic Feedline Ladder (Af)	135.00	0.00	0.0000	1.07	0.00	0.00	1.22
From 0 to 250 (130ft to140ft)							
Seismic Feedline Ladder (Af)	125.00	0.00	0.0000	1.07	0.00	0.00	1.13
From 0 to 250 (120ft to130ft)							
Seismic Feedline Ladder (Af)	118.50	0.00	0.0000	0.32	0.00	0.00	0.32
From 0 to 250 (117ft to120ft)							
Seismic Feedline Ladder (Af)	115.84	0.00	0.0000	0.25	0.00	0.00	0.24
From 0 to 250 (114.67ft to117ft)							
Seismic Feedline Ladder (Af)	113.50	0.00	0.0000	0.25	0.00	0.00	0.24
From 0 to 250 (112.33ft to114.67ft)							
Seismic Feedline Ladder (Af)	111.17	0.00	0.0000	0.25	0.00	0.00	0.23
From 0 to 250 (110ft to112.33ft)							

inxTower

POD Group

1033 E Turkeyfoot Lake Rd, Suite 206

Green OH- 44312

Phone: 330-961-7440

FAX:

Job	425322	Page 25 of 50
Project	26-195249	Date 11:58:56 05/21/26
Client	Array Inc.	Designed by utoluganti

Description	Elevation	Offset From Centroid	Azimuth Angle	E _x	E _{ix}	E _{iz}	E _o
	ft	ft	°	lb	lb	lb	lb
Seismic Feedline Ladder (Af) From 0 to 250 (107.67ft to 110ft)	108.84	0.00	0.0000	0.25	0.00	0.00	0.23
Seismic Feedline Ladder (Af) From 0 to 250 (105.33ft to 107.67ft)	106.50	0.00	0.0000	0.25	0.00	0.00	0.23
Seismic Feedline Ladder (Af) From 0 to 250 (103.33ft to 105.33ft)	104.17	0.00	0.0000	0.25	0.00	0.00	0.22
Seismic Feedline Ladder (Af) From 0 to 250 (100ft to 103ft)	101.50	0.00	0.0000	0.32	0.00	0.00	0.28
Seismic Feedline Ladder (Af) From 0 to 250 (80ft to 100ft)	90.00	0.00	0.0000	2.15	0.00	0.00	1.63
Seismic Feedline Ladder (Af) From 0 to 250 (60ft to 80ft)	70.00	0.00	0.0000	2.15	0.00	0.00	1.26
Seismic Feedline Ladder (Af) From 0 to 250 (40ft to 60ft)	50.00	0.00	0.0000	2.15	0.00	0.00	0.90
Seismic Feedline Ladder (Af) From 0 to 250 (20ft to 40ft)	30.00	0.00	0.0000	2.15	0.00	0.00	0.54
Seismic Feedline Ladder (Af) From 0 to 250 (5ft to 20ft)	12.50	0.00	0.0000	1.61	0.00	0.00	0.17
Seismic Feedline Ladder (Af) From 0 to 250 (0ft to 5ft)	2.50	0.00	0.0000	0.54	0.00	0.00	0.01
Seismic (2) miscel 2" From 0 to 245 (240ft to 245ft)	242.50	0.00	0.0000	1.07	0.00	0.00	2.19
Seismic (2) miscel 2" From 0 to 245 (220ft to 240ft)	230.00	0.00	0.0000	4.30	0.00	0.00	8.31
Seismic (2) miscel 2" From 0 to 245 (200ft to 220ft)	210.00	0.00	0.0000	4.30	0.00	0.00	7.59
Seismic (2) miscel 2" From 0 to 245 (180ft to 200ft)	190.00	0.00	0.0000	4.30	0.00	0.00	6.87
Seismic (2) miscel 2" From 0 to 245 (160ft to 180ft)	170.00	0.00	0.0000	4.30	0.00	0.00	6.14
Seismic (2) miscel 2" From 0 to 245 (140ft to 160ft)	150.00	0.00	0.0000	4.30	0.00	0.00	5.42
Seismic (2) miscel 2" From 0 to 245 (130ft to 140ft)	135.00	0.00	0.0000	2.15	0.00	0.00	2.44
Seismic (2) miscel 2" From 0 to 245 (120ft to 130ft)	125.00	0.00	0.0000	2.15	0.00	0.00	2.26
Seismic (2) miscel 2" From 0 to 245 (117ft to 120ft)	118.50	0.00	0.0000	0.64	0.00	0.00	0.64
Seismic (2) miscel 2" From 0 to 245 (114.67ft to 117ft)	115.84	0.00	0.0000	0.50	0.00	0.00	0.49
Seismic (2) miscel 2" From 0 to 245 (112.33ft to 114.67ft)	113.50	0.00	0.0000	0.50	0.00	0.00	0.48
Seismic (2) miscel 2" From 0 to 245 (110ft to 112.33ft)	111.17	0.00	0.0000	0.50	0.00	0.00	0.47
Seismic (2) miscel 2" From 0 to 245 (107.67ft to 110ft)	108.84	0.00	0.0000	0.50	0.00	0.00	0.46
Seismic (2) miscel 2" From 0 to 245 (105.33ft to 107.67ft)	106.50	0.00	0.0000	0.50	0.00	0.00	0.45
Seismic (2) miscel 2" From 0 to 245 (103ft to 105.33ft)	104.17	0.00	0.0000	0.50	0.00	0.00	0.44
Seismic (2) miscel 2" From 0 to 245 (100ft to 103ft)	101.50	0.00	0.0000	0.64	0.00	0.00	0.55
Seismic (2) miscel 2" From 0 to 245 (80ft to 100ft)	90.00	0.00	0.0000	4.30	0.00	0.00	3.25
Seismic (2) miscel 2" From 0 to 245 (60ft to 80ft)	70.00	0.00	0.0000	4.30	0.00	0.00	2.53
Seismic (2) miscel 2" From 0 to 245 (40ft to 60ft)	50.00	0.00	0.0000	4.30	0.00	0.00	1.81
Seismic (2) miscel 2" From 0 to 30.00	30.00	0.00	0.0000	4.30	0.00	0.00	1.08

<i>inxTower</i> <i>POD Group</i> 1033 E turkeyfoot Lake Rd, Suite 206 Green OH- 44312 Phone: 330-961-7440 FAX:		Job	4253322	Page 26 of 50
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Client		Array Inc.		Designed by utoluganti

Description	Elevation	Offset From Centroid	Azimuth Angle	E _v	E _{ix}	E _{iy}	E _{iz}
245 (20ft to 40ft)		ft	ft	lb	lb	lb	lb
Seismic (2) miscel 2" From 0 to 245 (5ft to 20ft)	12.50	0.00	0.0000	3.22	0.00	0.00	0.34
Seismic (2) miscel 2" From 0 to 245 (0ft to 5ft)	2.50	0.00	0.0000	1.07	0.00	0.00	0.02
Seismic (14) andrew ()	209.25	0.00	0.0000	10.02	0.00	0.00	17.62
AV/A7-50 (1-5/8 LOW DENSIL FOAM) From 0 to 218.5 (200ft to 218.5ft)	190.00	0.00	0.0000	10.83	0.00	0.00	17.30
Seismic (14) andrew ()	170.00	0.00	0.0000	10.83	0.00	0.00	15.48
AV/A7-50 (1-5/8 LOW DENSIL FOAM) From 0 to 218.5 (160ft to 180ft)	150.00	0.00	0.0000	10.83	0.00	0.00	13.66
Seismic (14) andrew ()	135.00	0.00	0.0000	5.41	0.00	0.00	6.15
AV/A7-50 (1-5/8 LOW DENSIL FOAM) From 0 to 218.5 (120ft to 140ft)	125.00	0.00	0.0000	5.41	0.00	0.00	5.69
Seismic (14) andrew ()	118.50	0.00	0.0000	1.62	0.00	0.00	1.62
AV/A7-50 (1-5/8 LOW DENSIL FOAM) From 0 to 218.5 (117ft to 120ft)	115.84	0.00	0.0000	1.26	0.00	0.00	1.23
Seismic (14) andrew ()	113.50	0.00	0.0000	1.27	0.00	0.00	1.21
AV/A7-50 (1-5/8 LOW DENSIL FOAM) From 0 to 218.5 (112.33ft to 114.67ft)	111.17	0.00	0.0000	1.26	0.00	0.00	1.18
Seismic (14) andrew ()	108.84	0.00	0.0000	1.26	0.00	0.00	1.15
AV/A7-50 (1-5/8 LOW DENSIL FOAM) From 0 to 218.5 (107.67ft to 110ft)	106.50	0.00	0.0000	1.27	0.00	0.00	1.13
Seismic (14) andrew ()	104.17	0.00	0.0000	1.26	0.00	0.00	1.10
AV/A7-50 (1-5/8 LOW DENSIL FOAM) From 0 to 218.5 (103ft to 105.33ft)	101.50	0.00	0.0000	1.62	0.00	0.00	1.39
Seismic (14) andrew ()							
AV/A7-50 (1-5/8 LOW DENSIL FOAM) From 0 to 218.5 (100ft to 102.67ft)							

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POD Group

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Description	Elevation	Offset From Centroid	Azimuth Angle	E _v	E _{inc}	E _{int}	E _h
	ft	ft	°	lb	lb	lb	lb
to103ft)							
Seismic (14) andrew ()	90.00	0.00	0.0000	10.83	0.00	0.00	8.19
AVA7-50 (1-5/8 LOW DENS. FOAM) From 0 to 218.5 (80ft to100ft)							
Seismic (14) andrew ()	70.00	0.00	0.0000	10.83	0.00	0.00	6.37
AVA7-50 (1-5/8 LOW DENS. FOAM) From 0 to 218.5 (60ft to80ft)							
Seismic (14) andrew ()	50.00	0.00	0.0000	10.83	0.00	0.00	4.55
AVA7-50 (1-5/8 LOW DENS. FOAM) From 0 to 218.5 (40ft to60ft)							
Seismic (14) andrew ()	30.00	0.00	0.0000	10.83	0.00	0.00	2.73
AVA7-50 (1-5/8 LOW DENS. FOAM) From 0 to 218.5 (20ft to40ft)							
Seismic (14) andrew ()	12.50	0.00	0.0000	8.12	0.00	0.00	0.85
AVA7-50 (1-5/8 LOW DENS. FOAM) From 0 to 218.5 (5ft to20ft)							
Seismic (14) andrew ()	2.50	0.00	0.0000	2.71	0.00	0.00	0.06
AVA7-50 (1-5/8 LOW DENS. FOAM) From 0 to 218.5 (0ft to5ft)							
Seismic (8) andrew ()	209.25	0.00	0.0000	1.19	0.00	0.00	2.10
LDf4-50A (1/2 FOAM) From 0 to 218.5 (200ft to218.5ft)							
Seismic (8) andrew ()	190.00	0.00	0.0000	1.29	0.00	0.00	2.06
LDf4-50A (1/2 FOAM) From 0 to 218.5 (180ft to200ft)							
Seismic (8) andrew ()	170.00	0.00	0.0000	1.29	0.00	0.00	1.84
LDf4-50A (1/2 FOAM) From 0 to 218.5 (160ft to180ft)							
Seismic (8) andrew ()	150.00	0.00	0.0000	1.29	0.00	0.00	1.63
LDf4-50A (1/2 FOAM) From 0 to 218.5 (140ft to160ft)							
Seismic (8) andrew ()	135.00	0.00	0.0000	0.64	0.00	0.00	0.73
LDf4-50A (1/2 FOAM) From 0 to 218.5 (130ft to140ft)							
Seismic (8) andrew ()	125.00	0.00	0.0000	0.64	0.00	0.00	0.68
LDf4-50A (1/2 FOAM) From 0 to 218.5 (120ft to130ft)							
Seismic (8) andrew ()	118.50	0.00	0.0000	0.19	0.00	0.00	0.19
LDf4-50A (1/2 FOAM) From 0 to 218.5 (117ft to120ft)							
Seismic (8) andrew ()	115.84	0.00	0.0000	0.15	0.00	0.00	0.15
LDf4-50A (1/2 FOAM) From 0 to 218.5 (114.67ft to117ft)							
Seismic (8) andrew ()	113.50	0.00	0.0000	0.15	0.00	0.00	0.14
LDf4-50A (1/2 FOAM) From 0 to 218.5 (112.33ft to114.67ft)							
Seismic (8) andrew ()	111.17	0.00	0.0000	0.15	0.00	0.00	0.14
LDf4-50A (1/2 FOAM) From 0 to 218.5 (110ft to112.33ft)							
Seismic (8) andrew ()	108.84	0.00	0.0000	0.15	0.00	0.00	0.14
LDf4-50A (1/2 FOAM) From 0 to 218.5 (107.67ft to110ft)							
Seismic (8) andrew ()	106.50	0.00	0.0000	0.15	0.00	0.00	0.14
LDf4-50A (1/2 FOAM) From 0							

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Description	Elevation ft	Offset From Centroid ft	Azimuth Angle °	E _v lb	E _{inc} lb	E _{inc} lb	E _h lb
to 218.5 (105.33ft to 107.67ft) Seismic (8) andrew () LDF4-50A (1/2 FOAM) From 0 to 218.5 (103ft to 105.33ft) Seismic (8) andrew () LDF4-50A (1/2 FOAM) From 0 to 218.5 (100ft to 103ft) Seismic (8) andrew () LDF4-50A (1/2 FOAM) From 0 to 218.5 (80ft to 100ft) Seismic (8) andrew () LDF4-50A (1/2 FOAM) From 0 to 218.5 (60ft to 80ft) Seismic (8) andrew () LDF4-50A (1/2 FOAM) From 0 to 218.5 (40ft to 60ft) Seismic (8) andrew () LDF4-50A (1/2 FOAM) From 0 to 218.5 (20ft to 40ft) Seismic (8) andrew () LDF4-50A (1/2 FOAM) From 0 to 218.5 (5ft to 20ft) Seismic (8) andrew () LDF4-50A (1/2 FOAM) From 0 to 218.5 (0ft to 5ft) Seismic (2) andrew () LDF12-50A (2-1/4 FOAM) From 0 to 198 (180ft to 198ft) Seismic (2) andrew () LDF12-50A (2-1/4 FOAM) From 0 to 198 (160ft to 180ft) Seismic (2) andrew () LDF12-50A (2-1/4 FOAM) From 0 to 198 (140ft to 160ft) Seismic (2) andrew () LDF12-50A (2-1/4 FOAM) From 0 to 198 (130ft to 140ft) Seismic (2) andrew () LDF12-50A (2-1/4 FOAM) From 0 to 198 (120ft to 130ft) Seismic (2) andrew () LDF12-50A (2-1/4 FOAM) From 0 to 198 (117ft to 120ft) Seismic (2) andrew () LDF12-50A (2-1/4 FOAM) From 0 to 198 (114.67ft to 117ft) Seismic (2) andrew () LDF12-50A (2-1/4 FOAM) From 0 to 198 (112.33ft to 114.67ft) Seismic (2) andrew () LDF12-50A (2-1/4 FOAM) From 0 to 198 (110ft to 112.33ft) Seismic (2) andrew () LDF12-50A (2-1/4 FOAM) From 0 to 198 (107.67ft to 110ft) Seismic (2) andrew () LDF12-50A (2-1/4 FOAM) From 0 to 198 (105.33ft to 107.67ft)	104.17	0.00	0.0000	0.15	0.00	0.00	0.13
	101.50	0.00	0.0000	0.19	0.00	0.00	0.17
	90.00	0.00	0.0000	1.29	0.00	0.00	0.98
	70.00	0.00	0.0000	1.29	0.00	0.00	0.76
	50.00	0.00	0.0000	1.29	0.00	0.00	0.54
	30.00	0.00	0.0000	1.29	0.00	0.00	0.33
	12.50	0.00	0.0000	0.97	0.00	0.00	0.10
	2.50	0.00	0.0000	0.32	0.00	0.00	0.01
	189.00	0.00	0.0000	2.36	0.00	0.00	3.75
	170.00	0.00	0.0000	2.62	0.00	0.00	3.75
	150.00	0.00	0.0000	2.62	0.00	0.00	3.31
	135.00	0.00	0.0000	1.31	0.00	0.00	1.49
	125.00	0.00	0.0000	1.31	0.00	0.00	1.38
	118.50	0.00	0.0000	0.39	0.00	0.00	0.39
	115.84	0.00	0.0000	0.31	0.00	0.00	0.30
	113.50	0.00	0.0000	0.31	0.00	0.00	0.29
	111.17	0.00	0.0000	0.31	0.00	0.00	0.29
	108.84	0.00	0.0000	0.31	0.00	0.00	0.28
	106.50	0.00	0.0000	0.31	0.00	0.00	0.27

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Description	Elevation ft.	Offset From Centroid ft.	Azimuth Angle °	E _v lb	E _{inc} lb	E _{inc} lb	E _u lb
Seismic (2) andrew () LDF12-50A (2-1/4 FOAM) From 0 to 198 (103ft to105.33ft)	104.17	0.00	0.0000	0.31	0.00	0.00	0.27
Seismic (2) andrew () LDF12-50A (2-1/4 FOAM) From 0 to 198 (100ft to103ft)	101.50	0.00	0.0000	0.39	0.00	0.00	0.34
Seismic (2) andrew () LDF12-50A (2-1/4 FOAM) From 0 to 198 (80ft to100ft)	90.00	0.00	0.0000	2.62	0.00	0.00	1.98
Seismic (2) andrew () LDF12-50A (2-1/4 FOAM) From 0 to 198 (60ft to80ft)	70.00	0.00	0.0000	2.62	0.00	0.00	1.54
Seismic (2) andrew () LDF12-50A (2-1/4 FOAM) From 0 to 198 (40ft to60ft)	50.00	0.00	0.0000	2.62	0.00	0.00	1.10
Seismic (2) andrew () LDF12-50A (2-1/4 FOAM) From 0 to 198 (20ft to40ft)	30.00	0.00	0.0000	2.62	0.00	0.00	0.66
Seismic (2) andrew () LDF12-50A (2-1/4 FOAM) From 0 to 198 (5ft to20ft)	12.50	0.00	0.0000	1.97	0.00	0.00	0.21
Seismic (2) andrew () LDF12-50A (2-1/4 FOAM) From 0 to 198 (0ft to5ft)	2.50	0.00	0.0000	0.66	0.00	0.00	0.01
Seismic (2) 3/4" From 0 to 198 (180ft to198ft)	189.00	0.00	0.0000	0.64	0.00	0.00	1.01
Seismic (2) 3/4" From 0 to 198 (160ft to180ft)	170.00	0.00	0.0000	0.71	0.00	0.00	1.01
Seismic (2) 3/4" From 0 to 198 (140ft to160ft)	150.00	0.00	0.0000	0.71	0.00	0.00	0.89
Seismic (2) 3/4" From 0 to 198 (130ft to140ft)	135.00	0.00	0.0000	0.35	0.00	0.00	0.40
Seismic (2) 3/4" From 0 to 198 (120ft to130ft)	125.00	0.00	0.0000	0.35	0.00	0.00	0.37
Seismic (2) 3/4" From 0 to 198 (117ft to120ft)	118.50	0.00	0.0000	0.11	0.00	0.00	0.11
Seismic (2) 3/4" From 0 to 198 (114.67ft to117ft)	115.84	0.00	0.0000	0.08	0.00	0.00	0.08
Seismic (2) 3/4" From 0 to 198 (112.33ft to114.67ft)	113.50	0.00	0.0000	0.08	0.00	0.00	0.08
Seismic (2) 3/4" From 0 to 198 (110ft to112.33ft)	111.17	0.00	0.0000	0.08	0.00	0.00	0.08
Seismic (2) 3/4" From 0 to 198 (107.67ft to110ft)	108.84	0.00	0.0000	0.08	0.00	0.00	0.08
Seismic (2) 3/4" From 0 to 198 (105.33ft to107.67ft)	106.50	0.00	0.0000	0.08	0.00	0.00	0.07
Seismic (2) 3/4" From 0 to 198 (103ft to105.33ft)	104.17	0.00	0.0000	0.08	0.00	0.00	0.07
Seismic (2) 3/4" From 0 to 198 (100ft to103ft)	101.50	0.00	0.0000	0.11	0.00	0.00	0.09

Discrete Tower Loads

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Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	C _u d _u		Weight
			Horz	Lateral			Front	Side	
			Vert				ft ²	ft ²	
*****			ft		°	ft	ft ²	ft ²	lb
ft			ft						
ft			ft						
ft			ft						

*****USC									
LOADING*****									

Load Combinations

Comb. No.	Description
1	Dead Only
2	1.2 Dead+1.0 Wind 0 deg - No Ice+1.0 Guy
3	1.2 Dead+1.0 Wind 30 deg - No Ice+1.0 Guy
4	1.2 Dead+1.0 Wind 60 deg - No Ice+1.0 Guy
5	1.2 Dead+1.0 Wind 90 deg - No Ice+1.0 Guy
6	1.2 Dead+1.0 Wind 120 deg - No Ice+1.0 Guy
7	1.2 Dead+1.0 Wind 150 deg - No Ice+1.0 Guy
8	1.2 Dead+1.0 Wind 180 deg - No Ice+1.0 Guy
9	1.2 Dead+1.0 Wind 210 deg - No Ice+1.0 Guy
10	1.2 Dead+1.0 Wind 240 deg - No Ice+1.0 Guy
11	1.2 Dead+1.0 Wind 270 deg - No Ice+1.0 Guy
12	1.2 Dead+1.0 Wind 300 deg - No Ice+1.0 Guy
13	1.2 Dead+1.0 Wind 330 deg - No Ice+1.0 Guy
14	1.2 Dead+1.0 Ice+1.0 Temp+Guy
15	1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp+1.0 Guy
16	1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp+1.0 Guy
17	1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp+1.0 Guy
18	1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp+1.0 Guy
19	1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp+1.0 Guy
20	1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp+1.0 Guy
21	1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp+1.0 Guy
22	1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp+1.0 Guy
23	1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp+1.0 Guy
24	1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp+1.0 Guy
25	1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp+1.0 Guy
26	1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp+1.0 Guy
27	Dead+Wind 0 deg - Service+Guy
28	Dead+Wind 30 deg - Service+Guy
29	Dead+Wind 60 deg - Service+Guy
30	Dead+Wind 90 deg - Service+Guy
31	Dead+Wind 120 deg - Service+Guy
32	Dead+Wind 150 deg - Service+Guy
33	Dead+Wind 180 deg - Service+Guy
34	Dead+Wind 210 deg - Service+Guy
35	Dead+Wind 240 deg - Service+Guy
36	Dead+Wind 270 deg - Service+Guy

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Comb. No.	Description
37	Dead+Wind 300 deg - Service+Guy
38	Dead+Wind 330 deg - Service+Guy
39	1.2 Dead+1.0 Ev+1.0 Eh 0 deg+1.0 Guy
40	1.2 Dead+1.0 Ev+1.0 Eh 30 deg+1.0 Guy
41	1.2 Dead+1.0 Ev+1.0 Eh 60 deg+1.0 Guy
42	1.2 Dead+1.0 Ev+1.0 Eh 90 deg+1.0 Guy
43	1.2 Dead+1.0 Ev+1.0 Eh 120 deg+1.0 Guy
44	1.2 Dead+1.0 Ev+1.0 Eh 150 deg+1.0 Guy
45	1.2 Dead+1.0 Ev+1.0 Eh 180 deg+1.0 Guy
46	1.2 Dead+1.0 Ev+1.0 Eh 210 deg+1.0 Guy
47	1.2 Dead+1.0 Ev+1.0 Eh 240 deg+1.0 Guy
48	1.2 Dead+1.0 Ev+1.0 Eh 270 deg+1.0 Guy
49	1.2 Dead+1.0 Ev+1.0 Eh 300 deg+1.0 Guy
50	1.2 Dead+1.0 Ev+1.0 Eh 330 deg+1.0 Guy

Maximum Tower Deflections - Service Wind

Section No.	Elevation	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
T1	250 - 240	0.614	33	0.0324	0.0124
T2	240 - 220	0.680	33	0.0327	0.0125
T3	220 - 200	0.791	33	0.0176	0.0122
T4	200 - 180	0.812	33	0.0042	0.0115
T5	180 - 160	0.780	33	0.0025	0.0108
T6	160 - 140	0.763	33	0.0065	0.0101
T7	140 - 130	0.711	33	0.0157	0.0090
T8	130 - 120	0.671	33	0.0172	0.0085
T9	120 - 117	0.632	33	0.0157	0.0084
T10	117 - 114.67	0.621	33	0.0149	0.0089
T11	114.67 - 112.33	0.614	33	0.0145	0.0084
T12	112.33 - 110	0.608	33	0.0146	0.0083
T13	110 - 107.67	0.601	33	0.0148	0.0082
T14	107.67 - 105.33	0.594	33	0.0152	0.0081
T15	105.33 - 103	0.587	33	0.0157	0.0081
T16	103 - 100	0.578	33	0.0162	0.0080
T17	100 - 80	0.569	33	0.0169	0.0076
T18	80 - 60	0.486	33	0.0228	0.0064
T19	60 - 40	0.378	33	0.0249	0.0047
T20	40 - 20	0.272	33	0.0274	0.0039
T21	20 - 5	0.147	33	0.0326	0.0033
T22	5 - 0	0.038	33	0.0354	0.0029

Critical Deflections and Radius of Curvature - Service Wind

Elevation	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
250.00	Seismic misc 5/8"x4" Lightning Rod	33	0.614	0.0324	0.0124	Inf
245.00	Seismic Tower Section 1	33	0.647	0.0331	0.0124	Inf
242.50	Seismic (2) misc 2" From 0 to 245 (240ft to 245ft)	33	0.664	0.0331	0.0125	772709
237.00	Guy	33	0.700	0.0314	0.0125	216041
230.00	Seismic Tower Section 2	33	0.743	0.0261	0.0124	77608

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Elevation	Aperture/ance	Gov. Load	Deflection	Tilt	Twist	Radius of Curvature
<i>f</i>		<i>Comb.</i>	<i>in</i>	<i>°</i>	<i>°</i>	<i>f</i>
226.00	Seismic tower mounts () Pirod 10'	33	0.765	0.0221	0.0124	56701
218.50	Box Arm Seismic commscope (pod)	33	0.796	0.0165	0.0122	42802
215.00	NHH-85B-R2M w/ Mount Pipe	33	0.805	0.0139	0.0120	45882
210.00	Seismic miscel Dish Mount	33	0.813	0.0101	0.0119	53116
209.25	Seismic Tower Section 3	33	0.813	0.0095	0.0118	54403
	Seismic (14) andrew () AVA7-50 (1-5/8 LOW DENS. FOAM) From 0 to 218.5 (200ft to218.5ft)					
198.00	Seismic ericsson(pod) RRUS 11E B12	33	0.809	0.0035	0.0114	89100
195.00	Seismic (3) kmw (pod) AM-X-CD-17-65-00T-RET w/ Mount Pipe	33	0.805	0.0028	0.0113	127558
190.00	Seismic Tower Section 4	33	0.796	0.0024	0.0111	522617
189.00	Seismic (2) andrew () LDF12-50A (2-1/4 FOAM) From 0 to 198 (180ft to 198ft)	33	0.794	0.0024	0.0111	689382
185.00	Seismic ericsson(pod) AIR 6419 B41 w/ Mount Pipe	33	0.787	0.0024	0.0110	158137
177.00	Guy	33	0.777	0.0024	0.0107	111951
172.83	Seismic 3' Side arm mount	33	0.773	0.0032	0.0106	216758
171.00	Seismic 30" Omni Whip	33	0.772	0.0035	0.0105	365599
170.00	Seismic Tower Section 5	33	0.772	0.0037	0.0105	585176
164.00	Seismic 8' Yagi	33	0.767	0.0052	0.0103	139034
161.00	Seismic 8' Yagi	33	0.764	0.0062	0.0102	99548
152.00	Seismic 13' Yagi	33	0.748	0.0103	0.0097	96068
150.00	Seismic Tower Section 6	33	0.743	0.0113	0.0096	99219
144.00	Seismic 13' Yagi	33	0.725	0.0142	0.0092	106478
140.00	Seismic 8' Yagi	33	0.711	0.0157	0.0090	119667
136.00	Seismic 8' Yagi	33	0.695	0.0167	0.0089	201280
135.00	Seismic Tower Section 7	33	0.691	0.0168	0.0089	253190
133.50	Seismic 8' Yagi	33	0.685	0.0170	0.0088	410668
130.00	Seismic 15' Yagi	33	0.671	0.0172	0.0085	410109
125.00	Seismic Tower Section 8	33	0.651	0.0168	0.0080	312398
118.50	Seismic Tower Section 9	33	0.626	0.0153	0.0087	87626
117.00	Guy	33	0.621	0.0149	0.0089	78573
115.84	Seismic Tower Section 10	33	0.618	0.0147	0.0087	90877
113.50	Seismic Tower Section 11	33	0.611	0.0145	0.0083	306265
111.17	Seismic Tower Section 12	33	0.604	0.0147	0.0083	220807
111.00	Seismic 15' Yagi	33	0.604	0.0147	0.0083	217405
108.84	Seismic Tower Section 13	33	0.597	0.0150	0.0082	206889
106.50	Seismic Tower Section 14	33	0.591	0.0155	0.0081	139966
104.17	Seismic Tower Section 15	33	0.582	0.0160	0.0080	943136
104.00	Seismic 15' Yagi	33	0.582	0.0160	0.0080	772136
101.50	Seismic Tower Section 16	33	0.574	0.0165	0.0078	247552
101.00	Seismic 39" x 19" x 8" Panel w/ Mount Pipe	33	0.572	0.0166	0.0078	224357
90.00	Seismic Tower Section 17	33	0.533	0.0198	0.0069	118657
70.00	Seismic Tower Section 18	33	0.433	0.0243	0.0056	471780
59.33	Guy	33	0.375	0.0250	0.0046	302136
59.33	Seismic Guy Level 4	33	0.375	0.0250	0.0046	302137
50.00	Seismic Tower Section 19	33	0.325	0.0258	0.0043	548536
30.00	Seismic Tower Section 20	33	0.212	0.0298	0.0032	174751
12.50	Seismic Tower Section 21	33	0.093	0.0344	0.0041	308346
2.50	Seismic Tower Section 22	33	0.019	0.0355	0.0016	Inf

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Maximum Tower Deflections - Design Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
T1	250 - 240	0.209	15	0.0109	0.0001
T2	240 - 220	0.232	15	0.0110	0.0002
T3	220 - 200	0.269	15	0.0049	0.0001
T4	200 - 180	0.282	26	0.0030	0.0001
T5	180 - 160	0.293	19	0.0034	0.0001
T6	160 - 140	0.302	19	0.0020	0.0001
T7	140 - 130	0.298	19	0.0018	0.0000
T8	130 - 120	0.294	21	0.0021	0.0000
T9	120 - 117	0.289	21	0.0023	0.0001
T10	117 - 114.67	0.288	21	0.0024	0.0001
T11	114.67 - 112.33	0.287	21	0.0026	0.0001
T12	112.33 - 110	0.286	21	0.0030	0.0001
T13	110 - 107.67	0.284	21	0.0033	0.0001
T14	107.67 - 105.33	0.284	21	0.0038	0.0001
T15	105.33 - 103	0.281	21	0.0045	0.0001
T16	103 - 100	0.278	21	0.0049	0.0001
T17	100 - 80	0.275	21	0.0053	0.0002
T18	80 - 60	0.244	21	0.0094	0.0002
T19	60 - 40	0.198	21	0.0119	0.0002
T20	40 - 20	0.143	21	0.0146	0.0003
T21	20 - 5	0.076	21	0.0171	0.0003
T22	5 - 0	0.019	21	0.0185	0.0003

Critical Deflections and Radius of Curvature - Design Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
250.00	Seismic miscel 5/8"x4" Lightning Rod	15	0.209	0.0109	0.0001	Inf
245.00	Seismic Tower Section 1	15	0.221	0.0112	0.0002	Inf
242.50	Seismic (2) miscel 2" From 0 to 245 (240ft to245ft)	15	0.227	0.0112	0.0002	827479
237.00	Guy	15	0.239	0.0105	0.0002	404330
230.00	Seismic Tower Section 2	15	0.254	0.0083	0.0002	222043
226.00	Seismic tower mounts () Prod 10' Box Arm	15	0.261	0.0069	0.0002	176433
218.50	Seismic commscope (pod) NHH-85B-R2M w/ Mount Pipe	15	0.271	0.0046	0.0001	151980
215.00	Seismic miscel Dish Mount	15	0.274	0.0038	0.0001	188291
210.00	Seismic Tower Section 3	15	0.278	0.0032	0.0001	311759
209.25	Seismic (14) andrew () AVA7-50 (1-5/8 LOW DENS. FOAM) From 0 to 218.5 (200ft to218.5ft)	15	0.278	0.0032	0.0001	345768
198.00	Seismic ericsson(pod) RRUS 11E B12	26	0.283	0.0031	0.0001	Inf
195.00	Seismic (3) kmw (pod) AM-X-CD-17-65-00T-R-ET w/ Mount Pipe	19	0.285	0.0032	0.0001	Inf
190.00	Seismic Tower Section 4	19	0.287	0.0035	0.0001	Inf
189.00	Seismic (2) andrew () LDF12-50A (2-1/4 FOAM) From 0 to 198 (180ft to198ft)	19	0.288	0.0035	0.0001	Inf
185.00	Seismic ericsson(pod) AIR 6419	19	0.290	0.0036	0.0001	Inf

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Elevation ft	Aperture/ance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
177.00	B41 w/ Mount Pipe	19	0.295	0.0031	0.0001	Inf
172.83	Guy	19	0.297	0.0026	0.0001	813202
171.00	Seismic 3' Side arm mount	19	0.298	0.0023	0.0001	646158
170.00	Seismic 30" Omni Whip	19	0.298	0.0021	0.0001	580947
164.00	Seismic Tower Section 5	19	0.301	0.0019	0.0001	362101
161.00	Seismic 8' Yagi	19	0.302	0.0020	0.0001	316481
152.00	Seismic 8' Yagi	19	0.302	0.0021	0.0001	399282
150.00	Seismic 13' Yagi	19	0.301	0.0021	0.0000	441306
144.00	Seismic Tower Section 6	19	0.300	0.0019	0.0000	644796
140.00	Seismic 13' Yagi	19	0.298	0.0018	0.0000	892746
136.00	Seismic 8' Yagi	21	0.297	0.0018	0.0000	951639
135.00	Seismic 8' Yagi	21	0.296	0.0019	0.0000	921769
133.50	Seismic Tower Section 7	21	0.296	0.0019	0.0000	881426
130.00	Seismic 8' Yagi	21	0.294	0.0021	0.0000	818947
125.00	Seismic 15' Yagi	21	0.292	0.0022	0.0000	813594
118.50	Seismic Tower Section 8	21	0.289	0.0023	0.0001	754194
117.00	Seismic Tower Section 9	21	0.288	0.0024	0.0001	728769
115.84	Guy	21	0.288	0.0025	0.0001	316855
113.50	Seismic Tower Section 10	21	0.287	0.0028	0.0001	423558
111.17	Seismic Tower Section 11	21	0.285	0.0032	0.0001	607018
111.00	Seismic 15' Yagi	21	0.285	0.0032	0.0001	603853
108.84	Seismic 15' Yagi	21	0.284	0.0035	0.0001	169488
106.50	Seismic Tower Section 13	21	0.283	0.0042	0.0001	87369
104.17	Seismic Tower Section 14	21	0.280	0.0048	0.0001	483385
104.00	Seismic Tower Section 15	21	0.279	0.0048	0.0001	880030
101.50	Seismic 15' Yagi	21	0.277	0.0051	0.0001	223872
101.00	Seismic Tower Section 16	21	0.276	0.0052	0.0001	293217
	Seismic 39" x 19" x 8" Panel w/ Mount Pipe	21				
90.00	Seismic Tower Section 17	21	0.263	0.0072	0.0003	196204
70.00	Seismic Tower Section 18	21	0.223	0.0110	0.0002	491005
59.33	Guy	21	0.197	0.0119	0.0002	496624
59.33	Seismic Guy Level 4	21	0.197	0.0119	0.0002	496624
50.00	Seismic Tower Section 19	21	0.172	0.0126	0.0003	450686
30.00	Seismic Tower Section 20	21	0.110	0.0183	0.0002	443961
12.50	Seismic Tower Section 21	21	0.048	0.0120	0.0004	718921
2.50	Seismic Tower Section 22	21	0.010	0.0261	0.0002	Inf

Bolt Design Data

Section No.	Elevation ft	Component Type	Bolt Grade	Bolt Size in	Number Of Bolts	Maximum Load per Bolt lb	Allowable Load per Bolt lb	Ratio Load Allowable	Allowable Ratio	Criteria
T1	250	Leg	A325X	0.5625	6	1.29	27956.80	0.000	✓	Bolt DS
T2	240	Leg	A325X	0.5625	6	159.55	27956.80	0.006	✓	Bolt DS
T3	220	Leg	A325X	0.5625	6	1898.45	27956.80	0.068	✓	Bolt DS
T4	200	Leg	A325X	0.5625	6	1981.40	27956.80	0.071	✓	Bolt DS
T5	180	Leg	A325X	0.5625	6	2096.66	27956.80	0.075	✓	Bolt DS
T6	160	Leg	A325X	0.5625	6	3332.56	27956.80	0.119	✓	Bolt DS
T8	130	Leg	A325X	0.5625	12	3470.77	27956.80	0.124	✓	Bolt DS

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Guy Design Data

Section No.	Elevation <i>f</i>	Size	Initial Tension <i>lb</i>	Breaking Load <i>lb</i>	Actual <i>T_n</i> <i>lb</i>	Allowable ϕT_n <i>lb</i>	Required S.F.	Actual S.F.
T2	237.00 (A)	9/16 EHS	4200.00	35000.04	5497.59	21000.00	1.000	3.820 ✓
	(1022)							
	237.00 (A)	9/16 EHS	4200.00	35000.04	5503.39	21000.00	1.000	3.816 ✓
	(1023)							
	237.00 (B)	9/16 EHS	4200.00	35000.04	5373.31	21000.00	1.000	3.908 ✓
	(1016)							
	237.00 (B)	9/16 EHS	4200.00	35000.04	5350.62	21000.00	1.000	3.925 ✓
	(1017)							
T5	237.00 (C)	9/16 EHS	4200.00	35000.04	5313.57	21000.00	1.000	3.952 ✓
	(1010)							
	237.00 (C)	9/16 EHS	4200.00	35000.04	5329.71	21000.00	1.000	3.940 ✓
	(1011)							
	237.00 (A)	7/16 EHS	2288.00	20800.02	3696.48	12480.00	1.000	3.376 ✓
	(1040)							
	177.00 (A)	7/16 EHS	2288.00	20800.02	3698.91	12480.00	1.000	3.374 ✓
	(1041)							
T10	177.00 (B)	7/16 EHS	2288.00	20800.02	3578.49	12480.00	1.000	3.488 ✓
	(1034)							
	177.00 (B)	7/16 EHS	2288.00	20800.02	3567.07	12480.00	1.000	3.499 ✓
	(1035)							
	177.00 (C)	7/16 EHS	2288.00	20800.02	3530.69	12480.00	1.000	3.535 ✓
	(1028)							
	177.00 (C)	7/16 EHS	2288.00	20800.02	3539.53	12480.00	1.000	3.526 ✓
	(1029)							
T19	117.00 (A)	3/8 EHS	1386.00	15399.96	2720.35	9240.00	1.000	3.397 ✓
	(1058)							
	117.00 (A)	3/8 EHS	1386.00	15399.96	2721.12	9240.00	1.000	3.396 ✓
	(1059)							
	117.00 (B)	3/8 EHS	1386.00	15399.96	2625.68	9240.00	1.000	3.519 ✓
	(1052)							
	117.00 (B)	3/8 EHS	1386.00	15399.96	2620.22	9240.00	1.000	3.526 ✓
	(1053)							
T19	117.00 (C)	3/8 EHS	1386.00	15399.96	2593.54	9240.00	1.000	3.563 ✓
	(1046)							
	117.00 (C)	3/8 EHS	1386.00	15399.96	2598.03	9240.00	1.000	3.557 ✓
	(1047)							
	59.33 (A)	3/8 EHS	1848.00	15399.96	2993.28	9240.00	1.000	3.087 ✓
	(1066)							
	59.33 (B)	3/8 EHS	1848.00	15399.96	2889.29	9240.00	1.000	3.198 ✓
	(1065)							
	59.33 (C)	3/8 EHS	1848.00	15399.96	2864.09	9240.00	1.000	3.226 ✓
	(1064)							

Compression Checks

Leg Design Data (Compression)

inxTower

POD Group
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Section No.	Elevation f_i	Size	L f_i	L_u f_i	Kl/r	A in^2	P_u lb	ϕP_u lb	Ratio $\frac{P_u}{\phi P_u}$
T1	250 - 240	1.5 SR	10.00	2.17	69.3 K=1.00	1.7672	-715.82	55954.90	0.013
T2	240 - 220	1.5 SR	20.00	2.33	74.7 K=1.00	1.7672	-11986.60	52899.40	0.227
T3	220 - 200	1.5 SR	20.00	1.17	33.6 K=0.90	1.7672	-11751.10	73221.00	0.160
T4	200 - 180	1.5 SR	20.00	1.17	33.6 K=0.90	1.7672	-12401.50	73221.00	0.169
T5	180 - 160	1.5 SR	20.00	1.17	33.6 K=0.90	1.7672	-20234.10	73221.00	0.276
T6	160 - 140	1.5 SR	20.00	1.17	33.6 K=0.90	1.7672	-20368.10	73221.00	0.278
T7	140 - 130	1.5 SR	10.00	1.16	37.0 K=1.00	1.7672	-20639.00	71947.10	0.287
T8	130 - 120	1.5" SR w/ P2-XX Half Pipe	10.00	1.16	29.6 K=1.00	3.0951	-20921.30	130615.00	0.160
T9	120 - 117	1.5" SR w/ P2-XX Half Pipe	3.00	1.17	29.9 K=1.00	3.0951	-24047.60	130463.00	0.184
T10	117 - 114.67	1.5" SR w/ P2-XX Half Pipe	2.33	1.16	29.9 K=1.00	3.0951	-23520.70	130487.00	0.180
T11	114.67 - 112.33	1.5" SR w/ P2-XX Half Pipe	2.34	1.17	30.0 K=1.00	3.0951	-25600.10	130414.00	0.196
T12	112.33 - 110	1.5" SR w/ P2-XX Half Pipe	2.33	1.16	29.9 K=1.00	3.0951	-26372.80	130487.00	0.202
T13	110 - 107.67	1.5" SR w/ P2-XX Half Pipe	2.33	2.33	59.7 K=1.00	3.0951	-25958.50	107303.00	0.242
T14	107.67 - 105.33	1.5" SR w/ P2-XX Half Pipe	2.34	2.34	60.0 K=1.00	3.0951	-26832.60	107063.00	0.251
T15	105.33 - 103	1.5" SR w/ P2-XX Half Pipe	2.33	2.33	59.7 K=1.00	3.0951	-26118.70	107303.00	0.243
T16	103 - 100	1.5" SR w/ P2-XX Half Pipe	3.00	2.33	59.8 K=1.00	3.0951	-25527.80	107223.00	0.238
T17	100 - 80	1.5" SR w/ P2-XX Half Pipe	20.00	2.33	59.8 K=1.00	3.0951	-27175.10	107223.00	0.253
T18	80 - 60	1.5" SR w/ P2-XX Half Pipe	20.00	2.33	59.8 K=1.00	3.0951	-27613.50	107223.00	0.258
T19	60 - 40	1.5" SR w/ P2-XX Half Pipe	20.00	2.33	59.8 K=1.00	3.0951	-29663.10	107223.00	0.277
T20	40 - 20	1.5" SR w/ P2-XX Half Pipe	20.00	2.33	59.8 K=1.00	3.0951	-30181.30	107223.00	0.281
T21	20 - 5	1.5" SR w/ P2-XX Half Pipe	15.00	2.39	61.2 K=1.00	3.0951	-30773.80	105880.00	0.291
T22	5 - 0	1.5" SR w/ P2-XX Half Pipe	5.29	2.46	63.0 K=1.00	3.0951	-32653.90	104181.00	0.313

¹ P_u / ϕP_u controls

Diagonal Design Data (Compression)

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Section No.	Elevation <i>f_t</i>	Size	L <i>f_t</i>	L _u <i>f_t</i>	K/I/r	A <i>in²</i>	P _u <i>lb</i>	φP _u <i>lb</i>	Ratio $\frac{P_u}{\phi P_n}$
T1	250 - 240	0.75 SR	3.70	3.55	85.0 K=0.37	0.4418	-224.41	11724.20	0.019 ✓
T2	240 - 220	0.75 SR	3.80	3.64	84.6 K=0.36	0.4418	-1250.24	11780.10	0.106 ✓
T3	220 - 200	0.75 SR	3.80	3.64	84.6 K=0.36	0.4418	-197.03	11780.10	0.017 ✓
T4	200 - 180	0.75 SR	3.80	3.64	84.6 K=0.36	0.4418	-591.40	11780.10	0.050 ✓
T5	180 - 160	0.75 SR	3.80	3.64	84.6 K=0.36	0.4418	-853.17	11780.10	0.072 ✓
T6	160 - 140	0.75 SR	3.80	3.64	84.6 K=0.36	0.4418	-209.79	11780.10	0.018 ✓
T7	140 - 130	0.75 SR	3.79	3.63	84.7 K=0.36	0.4418	-210.93	11771.90	0.018 ✓
T8	130 - 120	0.75 SR	3.79	3.54	85.0 K=0.38	0.4418	-283.87	11720.20	0.024 ✓
T9	120 - 117	0.75 SR	3.80	3.55	85.0 K=0.37	0.4418	-92.62	11725.80	0.008 ✓
T10	117 - 114.67	0.75 SR	3.80	3.55	85.0 K=0.37	0.4418	-561.25	11724.90	0.048 ✓
T11	114.67 - 112.33	0.75 SR	3.80	3.55	85.0 K=0.37	0.4418	-532.40	11727.70	0.045 ✓
T12	112.33 - 110	0.75 SR	3.80	3.55	85.0 K=0.37	0.4418	-68.13	11724.90	0.006 ✓
T13	110 - 107.67	0.75 SR	3.80	3.55	85.0 K=0.37	0.4418	-837.30	11724.90	0.071 ✓
T14	107.67 - 105.33	0.75 SR	3.80	3.55	85.0 K=0.37	0.4418	-683.85	11727.70	0.058 ✓
T15	105.33 - 103	0.75 SR	3.80	3.55	85.0 K=0.37	0.4418	-680.76	11724.90	0.058 ✓
T16	103 - 100	0.75 SR	3.80	3.55	85.0 K=0.37	0.4418	-873.15	11725.80	0.074 ✓
T17	100 - 80	0.75 SR	3.80	3.55	85.0 K=0.37	0.4418	-830.44	11725.80	0.071 ✓
T18	80 - 60	0.5625 SR	3.80	3.55	106.0 K=0.35	0.2485	-584.42	4455.35	0.131 ✓
T19	60 - 40	0.5625 SR	3.80	3.55	106.0 K=0.35	0.2485	-627.10	4455.35	0.141 ✓
T20	40 - 20	0.5625 SR	3.80	3.55	106.0 K=0.35	0.2485	-640.37	4455.35	0.144 ✓
T21	20 - 5	0.5625 SR	3.83	3.58	107.0 K=0.35	0.2485	-687.60	4407.72	0.156 ✓
T22	5 - 0	0.5625 SR	2.53	2.02	82.2 K=0.48	0.2485	-2033.01	5639.65	0.360 ✓

¹ P_u / φP_n controls

Horizontal Design Data (Compression)

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Section No.	Elevation f_t	Size	L f_t	L_u f_t	Kl/r	A in^2	P_u lb	ϕP_n lb	Ratio $\frac{P_u}{\phi P_n}$
T1	250 - 240	0.75 SR	3.00	2.88	128.8 K=0.70	0.4418	-25.20	6016.18	0.0041 ✓
T2	240 - 220	0.75 SR	3.00	2.88	128.8 K=0.70	0.4418	-1642.42	6016.18	0.2731 ✓

¹ $P_u / \phi P_n$ controls

Secondary Horizontal Design Data (Compression)

Section No.	Elevation f_t	Size	L f_t	L_u f_t	Kl/r	A in^2	P_u lb	ϕP_n lb	Ratio $\frac{P_u}{\phi P_n}$
T1	250 - 240	0.75 SR	1.50	1.44	83.7 K=0.91	0.4418	-0.00	11908.10	0.0001 ✓
T2	240 - 220	0.75 SR	1.50	1.44	83.7 K=0.91	0.4418	-0.00	11908.10	0.0001 ✓
T3	220 - 200	0.75 SR	3.00	2.88	128.8 K=0.70	0.4418	-205.78	6016.18	0.0341 ✓
T4	200 - 180	0.75 SR	3.00	2.88	128.8 K=0.70	0.4418	-217.76	6016.18	0.0361 ✓
T5	180 - 160	0.75 SR	3.00	2.88	128.8 K=0.70	0.4418	-350.46	6016.18	0.0581 ✓
T6	160 - 140	0.75 SR	3.00	2.88	128.8 K=0.70	0.4418	-355.94	6016.18	0.0591 ✓
T7	140 - 130	0.75 SR	3.00	2.88	128.8 K=0.70	0.4418	-360.67	6016.18	0.0601 ✓
T8	130 - 120	0.75 SR	3.00	2.80	125.5 K=0.70	0.4418	-366.56	6333.36	0.0581 ✓
T9	120 - 117	0.75 SR	3.00	2.80	125.5 K=0.70	0.4418	-416.52	6333.36	0.0661 ✓
T10	117 - 114.67	0.75 SR	3.00	2.80	125.5 K=0.70	0.4418	-407.39	6333.36	0.0641 ✓
T11	114.67 - 112.33	0.75 SR	3.00	2.80	125.5 K=0.70	0.4418	-443.41	6333.36	0.0701 ✓
T12	112.33 - 110	0.75 SR	3.00	2.80	125.5 K=0.70	0.4418	-456.79	6333.36	0.0721 ✓
T13	110 - 107.67	0.75 SR	1.50	1.40	83.2 K=0.93	0.4418	-0.00	11988.80	0.0001 ✓
T14	107.67 - 105.33	0.75 SR	1.50	1.40	83.2 K=0.93	0.4418	-0.00	11988.80	0.0001 ✓
T15	105.33 - 103	0.75 SR	1.50	1.40	83.2 K=0.93	0.4418	-0.00	11988.80	0.0001 ✓
T16	103 - 100	0.75 SR	1.50	1.40	83.2 K=0.93	0.4418	-0.00	11988.80	0.0001 ✓
T17	100 - 80	0.75 SR	1.50	1.40	83.2 K=0.93	0.4418	-0.00	11988.80	0.0001 ✓
T18	80 - 60	0.75 SR	1.50	1.40	83.2 K=0.93	0.4418	-0.00	11988.80	0.0001 ✓
T19	60 - 40	0.75 SR	1.50	1.40	83.2 K=0.93	0.4418	-0.00	11988.80	0.0001 ✓

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Section No.	Elevation f_t	Size	L f_t	L_u f_t	K/r	A in^2	P_u lb	ϕP_u lb	Ratio $\frac{P_u}{\phi P_u}$
T20	40 - 20	0.75 SR	1.50	1.40	83.2 K=0.93	0.4418	-0.00	11988.80	0.000 ¹ ✓
T21	20 - 5	0.75 SR	1.50	1.40	83.2 K=0.93	0.4418	-0.00	11988.80	0.000 ¹ ✓

¹ P_u / ϕP_u controls

Top Girt Design Data (Compression)

Section No.	Elevation f_t	Size	L f_t	L_u f_t	K/r	A in^2	P_u lb	ϕP_u lb	Ratio $\frac{P_u}{\phi P_u}$
T1	250 - 240	0.75 SR	3.00	2.88	128.8 K=0.70	0.4418	-16.49	6016.18	0.003 ¹ ✓
T3	220 - 200	0.75 SR	3.00	2.88	128.8 K=0.70	0.4418	-205.78	6016.18	0.034 ¹ ✓
T4	200 - 180	0.75 SR	3.00	2.88	128.8 K=0.70	0.4418	-217.76	6016.18	0.036 ¹ ✓
T6	160 - 140	0.75 SR	3.00	2.88	128.8 K=0.70	0.4418	-355.94	6016.18	0.059 ¹ ✓
T7	140 - 130	0.75 SR	3.00	2.88	128.8 K=0.70	0.4418	-360.67	6016.18	0.060 ¹ ✓
T8	130 - 120	0.75 SR	3.00	2.80	125.5 K=0.70	0.4418	-366.56	6333.36	0.058 ¹ ✓
T13	110 - 107.67	0.75 SR	3.00	2.80	125.5 K=0.70	0.4418	-456.79	6333.36	0.072 ¹ ✓
T16	103 - 100	0.75 SR	3.00	2.80	125.5 K=0.70	0.4418	-461.24	6333.36	0.073 ¹ ✓
T17	100 - 80	0.75 SR	3.00	2.80	125.5 K=0.70	0.4418	-470.80	6333.36	0.074 ¹ ✓
T18	80 - 60	0.75 SR	3.00	2.80	125.5 K=0.70	0.4418	-478.47	6333.36	0.076 ¹ ✓
T20	40 - 20	0.75 SR	3.00	2.80	125.5 K=0.70	0.4418	-523.00	6333.36	0.083 ¹ ✓
T21	20 - 5	0.75 SR	3.00	2.80	125.5 K=0.70	0.4418	-533.02	6333.36	0.084 ¹ ✓
T22	5 - 0	0.75 SR	3.00	2.80	125.5 K=0.70	0.4418	-589.77	6333.36	0.093 ¹ ✓

¹ P_u / ϕP_u controls

Bottom Girt Design Data (Compression)

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Section No.	Elevation <i>f</i>	Size	<i>L</i>	<i>L_u</i>	<i>K</i> / <i>r</i>	<i>A</i>	<i>P_u</i>	ϕP_u	Ratio $\frac{P_u}{\phi P_u}$
T1	250 - 240	0.75 SR	3.00	2.88	128.8 K=0.70	<i>in</i> ²	<i>lb</i>	<i>lb</i>	0.019 ¹ ✓
T2	240 - 220	0.75 SR	3.00	2.88	128.8 K=0.70	0.4418	-207.62	6016.18	0.035 ¹ ✓
T3	220 - 200	0.75 SR	3.00	2.88	128.8 K=0.70	0.4418	-205.78	6016.18	0.034 ¹ ✓
T4	200 - 180	0.75 SR	3.00	2.88	128.8 K=0.70	0.4418	-227.22	6016.18	0.038 ¹ ✓
T5	180 - 160	0.75 SR	3.00	2.88	128.8 K=0.70	0.4418	-350.46	6016.18	0.058 ¹ ✓
T6	160 - 140	0.75 SR	3.00	2.88	128.8 K=0.70	0.4418	-355.94	6016.18	0.059 ¹ ✓
T8	130 - 120	0.75 SR	3.00	2.80	125.5 K=0.70	0.4418	-366.56	6333.36	0.058 ¹ ✓
T16	103 - 100	0.75 SR	3.00	2.80	125.5 K=0.70	0.4418	-461.24	6333.36	0.073 ¹ ✓
T17	100 - 80	0.75 SR	3.00	2.80	125.5 K=0.70	0.4418	-470.80	6333.36	0.074 ¹ ✓
T18	80 - 60	0.75 SR	3.00	2.80	125.5 K=0.70	0.4418	-478.47	6333.36	0.076 ¹ ✓
T19	60 - 40	0.75 SR	3.00	2.80	125.5 K=0.70	0.4418	-514.23	6333.36	0.081 ¹ ✓
T20	40 - 20	0.75 SR	3.00	2.80	125.5 K=0.70	0.4418	-523.00	6333.36	0.083 ¹ ✓
T22	5 - 0	0.75 SR	0.21	0.01	0.9 K=1.00	0.4418	-589.77	19879.10	0.030 ¹ ✓

¹ *P_u* / ϕP_u controls

Mid Girt Design Data (Compression)

Section No.	Elevation <i>f</i>	Size	<i>L</i>	<i>L_u</i>	<i>K</i> / <i>r</i>	<i>A</i>	<i>P_u</i>	ϕP_u	Ratio $\frac{P_u}{\phi P_u}$
T2	240 - 220	0.75 SR	3.00	2.88	128.8 K=0.70	<i>in</i> ²	<i>lb</i>	<i>lb</i>	0.066 ¹ ✓
T5	180 - 160	0.75 SR	3.00	2.88	128.8 K=0.70	0.4418	-341.33	6016.18	0.057 ¹ ✓

¹ *P_u* / ϕP_u controls

Top Guy Pull-Off Design Data (Compression)

Section No.	Elevation <i>f</i>	Size	<i>L</i>	<i>L_u</i>	<i>K</i> / <i>r</i>	<i>A</i>	<i>P_u</i>	ϕP_u	Ratio $\frac{P_u}{\phi P_u}$
T2	240 - 220	(2) 7/8" SR	3.00	2.88	120.5	<i>in</i> ²	<i>lb</i>	<i>lb</i>	0.001 ¹

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Section No.	Elevation <i>ft</i>	Size	L <i>ft</i>	L _u <i>ft</i>	Kl/r	A <i>in</i> ²	P _u <i>lb</i>	φP _u <i>lb</i>	Ratio $\frac{P_u}{\phi P_u}$
T5	180 - 160	(2) 7/8" SR	3.00	2.88	K=0.76 120.5 K=0.76	1.2026	-143.03	18717.10	0.008 ¹ ✓

¹ P_u / φP_u controls

Torque-Arm Bottom Design Data

Section No.	Elevation <i>ft</i>	Size	L <i>ft</i>	L _u <i>ft</i>	Kl/r	A <i>in</i> ²	P _u <i>lb</i>	φP _u <i>lb</i>	Ratio $\frac{P_u}{\phi P_u}$
T2	240 - 220 (1014)	2L3x3x5/16x3/8	6.67	6.60	85.9 K=1.00	3.5500	-7391.86	97678.90	0.076 ¹ ✓
T2	240 - 220 (1015)	2L3x3x5/16x3/8	6.67	6.60	85.9 K=1.00	3.5500	-5508.79	97678.90	0.056 ¹ ✓
T2	240 - 220 (1020)	2L3x3x5/16x3/8	6.67	6.60	85.9 K=1.00	3.5500	-6367.61	97678.90	0.065 ¹ ✓
T2	240 - 220 (1021)	2L3x3x5/16x3/8	6.67	6.60	85.9 K=1.00	3.5500	-6325.78	97678.90	0.065 ¹ ✓
T2	240 - 220 (1026)	2L3x3x5/16x3/8	6.67	6.60	85.9 K=1.00	3.5500	-7442.99	97678.90	0.076 ¹ ✓
T2	240 - 220 (1027)	2L3x3x5/16x3/8	6.67	6.60	85.9 K=1.00	3.5500	-5516.70	97678.90	0.056 ¹ ✓
T5	180 - 160 (1032)	2L3x3x5/16x3/8	6.67	6.60	85.9 K=1.00	3.5500	-3887.86	97678.90	0.040 ¹ ✓
T5	180 - 160 (1033)	2L3x3x5/16x3/8	6.67	6.60	85.9 K=1.00	3.5500	-4094.39	97678.90	0.042 ¹ ✓
T5	180 - 160 (1038)	2L3x3x5/16x3/8	6.67	6.60	85.9 K=1.00	3.5500	-3914.25	97678.90	0.040 ¹ ✓
T5	180 - 160 (1039)	2L3x3x5/16x3/8	6.67	6.60	85.9 K=1.00	3.5500	-3866.08	97678.90	0.040 ¹ ✓
T5	180 - 160 (1044)	2L3x3x5/16x3/8	6.67	6.60	85.9 K=1.00	3.5500	-3942.60	97678.90	0.040 ¹ ✓
T5	180 - 160 (1045)	2L3x3x5/16x3/8	6.67	6.60	85.9 K=1.00	3.5500	-4100.95	97678.90	0.042 ¹ ✓
T10	117 - 114.67 (1050)	2L3x3x5/16x3/8	6.67	6.56	85.4 K=1.00	3.5500	-2385.30	97829.90	0.024 ¹ ✓
T10	117 - 114.67 (1051)	2L3x3x5/16x3/8	6.67	6.56	85.4 K=1.00	3.5500	-2551.88	97829.90	0.026 ¹ ✓
T10	117 - 114.67 (1056)	2L3x3x5/16x3/8	6.67	6.56	85.4 K=1.00	3.5500	-2354.67	97829.90	0.024 ¹ ✓
T10	117 - 114.67 (1057)	2L3x3x5/16x3/8	6.67	6.56	85.4 K=1.00	3.5500	-2395.66	97829.90	0.024 ¹ ✓
T10	117 - 114.67 (1062)	2L3x3x5/16x3/8	6.67	6.56	85.4 K=1.00	3.5500	-2433.09	97829.90	0.025 ¹ ✓
T10	117 - 114.67 (1063)	2L3x3x5/16x3/8	6.67	6.56	85.4 K=1.00	3.5500	-2559.46	97829.90	0.026 ¹ ✓

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¹ P_u / ϕP_n controls

Tension Checks

Leg Design Data (Tension)

Section No.	Elevation f_t	Size	L f_t	L_u f_t	Kl/r	A in^2	P_u lb	ϕP_n lb	Ratio $\frac{P_u}{\phi P_n}$
T1	250 - 240	1.5 SR	10.00	0.67	21.3	1.7672	529.87	79521.60	0.0071 ✓
T2	240 - 220	1.5 SR	20.00	0.67	21.3	0.7732	524.83	37695.20	0.0141 ✓

¹ P_u / ϕP_n controls

Diagonal Design Data (Tension)

Section No.	Elevation f_t	Size	L f_t	L_u f_t	Kl/r	A in^2	P_u lb	ϕP_n lb	Ratio $\frac{P_u}{\phi P_n}$
T1	250 - 240	0.75 SR	3.70	3.55	227.0	0.4418	218.04	19880.40	0.0111 ✓
T2	240 - 220	0.75 SR	3.80	3.64	233.1	0.4418	1155.00	19880.40	0.0581 ✓
T3	220 - 200	0.75 SR	3.80	3.64	233.1	0.4418	70.89	19880.40	0.0041 ✓
T4	200 - 180	0.75 SR	3.80	3.64	233.1	0.4418	456.54	19880.40	0.0231 ✓
T5	180 - 160	0.75 SR	3.80	3.64	233.1	0.4418	629.37	19880.40	0.0321 ✓
T6	160 - 140	0.75 SR	3.80	3.64	233.1	0.4418	23.31	19880.40	0.0011 ✓
T7	140 - 130	0.75 SR	3.79	3.63	232.3	0.4418	38.69	19880.40	0.0021 ✓
T8	130 - 120	0.75 SR	3.79	3.54	226.4	0.4418	31.97	19880.40	0.0021 ✓
T9	120 - 117	0.75 SR	3.80	3.55	227.2	0.4418	155.03	19880.40	0.0081 ✓
T12	112.33 - 110	0.75 SR	3.80	3.55	227.1	0.4418	120.61	19880.40	0.0061 ✓
T14	107.67 - 105.33	0.75 SR	3.80	3.55	227.4	0.4418	328.66	19880.40	0.0171 ✓
T17	100 - 80	0.75 SR	3.80	3.55	227.2	0.4418	108.57	19880.40	0.0051 ✓
T18	80 - 60	0.5625 SR	3.80	3.55	302.9	0.2485	86.37	8051.56	0.0111 ✓
T19	60 - 40	0.5625 SR	3.80	3.55	302.9	0.2485	98.16	8051.56	0.0121 ✓

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Section No.	Elevation	Size	L	L _m	Kl/r	A	P _m	φP _m	Ratio $\frac{P_m}{\phi P_m}$
	ft		ft	ft		in ²	lb	lb	
T20	40 - 20	0.5625 SR	3.80	3.55	302.9	0.2485	94.50	8051.56	0.012
T21	20 - 5	0.5625 SR	3.83	3.58	305.7	0.2485	226.85	8051.56	0.028
T22	5 - 0	0.5625 SR	3.30	2.79	238.3	0.2485	217.46	8051.56	0.027

¹ P_m / φP_m controls

Horizontal Design Data (Tension)

Section No.	Elevation	Size	L	L _m	Kl/r	A	P _m	φP _m	Ratio $\frac{P_m}{\phi P_m}$
	ft		ft	ft		in ²	lb	lb	
T1	250 - 240	0.75 SR	3.00	2.88	184.0	0.4418	41.04	19880.40	0.002
T2	240 - 220	0.75 SR	3.00	2.88	184.0	0.4418	1184.33	19880.40	0.060
T14	107.67 - 105.33	0.75 SR	3.00	2.80	179.3	0.4418	1212.54	19880.40	0.061
T15	105.33 - 103	0.75 SR	3.00	2.80	179.3	0.4418	1064.64	19880.40	0.054
T17	100 - 80	0.75 SR	3.00	2.80	179.3	0.4418	1255.50	19880.40	0.063
T18	80 - 60	0.75 SR	3.00	2.80	179.3	0.4418	907.15	19880.40	0.046
T19	60 - 40	0.75 SR	3.00	2.80	179.3	0.4418	985.84	19880.40	0.050
T20	40 - 20	0.75 SR	3.00	2.80	179.3	0.4418	1005.43	19880.40	0.051
T21	20 - 5	0.75 SR	3.00	2.80	179.3	0.4418	1019.40	19880.40	0.051

¹ P_m / φP_m controls

Secondary Horizontal Design Data (Tension)

Section No.	Elevation	Size	L	L _m	Kl/r	A	P _m	φP _m	Ratio $\frac{P_m}{\phi P_m}$
	ft		ft	ft		in ²	lb	lb	
T1	250 - 240	0.75 SR	1.50	1.44	92.0	0.4418	0.00	19880.40	0.000
T2	240 - 220	0.75 SR	1.50	1.44	92.0	0.4418	0.00	19880.40	0.000
T3	220 - 200	0.75 SR	3.00	2.88	184.0	0.4418	205.78	19880.40	0.010
T4	200 - 180	0.75 SR	3.00	2.88	184.0	0.4418	217.76	19880.40	0.011

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Section No.	Elevation <i>ft</i>	Size	L <i>ft</i>	L _u <i>ft</i>	Kl/r	A <i>in</i> ²	P _u <i>lb</i>	φP _u <i>lb</i>	Ratio $\frac{P_u}{\phi P_u}$
T5	180 - 160	0.75 SR	3.00	2.88	184.0	0.4418	350.46	19880.40	0.018
T6	160 - 140	0.75 SR	3.00	2.88	184.0	0.4418	355.94	19880.40	0.018
T7	140 - 130	0.75 SR	3.00	2.88	184.0	0.4418	360.67	19880.40	0.018
T8	130 - 120	0.75 SR	3.00	2.80	179.3	0.4418	366.56	19880.40	0.018
T9	120 - 117	0.75 SR	3.00	2.80	179.3	0.4418	416.52	19880.40	0.021
T10	117 - 114.67	0.75 SR	3.00	2.80	179.3	0.4418	407.39	19880.40	0.020
T11	114.67 - 112.33	0.75 SR	3.00	2.80	179.3	0.4418	443.41	19880.40	0.022
T12	112.33 - 110	0.75 SR	3.00	2.80	179.3	0.4418	456.79	19880.40	0.023
T13	110 - 107.67	0.75 SR	1.50	1.40	89.7	0.4418	0.00	19880.40	0.000
T14	107.67 - 105.33	0.75 SR	1.50	1.40	89.7	0.4418	0.00	19880.40	0.000
T15	105.33 - 103	0.75 SR	1.50	1.40	89.7	0.4418	0.00	19880.40	0.000
T16	103 - 100	0.75 SR	1.50	1.40	89.7	0.4418	0.00	19880.40	0.000
T17	100 - 80	0.75 SR	1.50	1.40	89.7	0.4418	0.00	19880.40	0.000
T18	80 - 60	0.75 SR	1.50	1.40	89.7	0.4418	0.00	19880.40	0.000
T19	60 - 40	0.75 SR	1.50	1.40	89.7	0.4418	0.00	19880.40	0.000
T20	40 - 20	0.75 SR	1.50	1.40	89.7	0.4418	0.00	19880.40	0.000
T21	20 - 5	0.75 SR	1.50	1.40	89.7	0.4418	0.00	19880.40	0.000

¹ P_u / φP_u controls

Top Girt Design Data (Tension)

Section No.	Elevation <i>ft</i>	Size	L <i>ft</i>	L _u <i>ft</i>	Kl/r	A <i>in</i> ²	P _u <i>lb</i>	φP _u <i>lb</i>	Ratio $\frac{P_u}{\phi P_u}$
T1	250 - 240	0.75 SR	3.00	2.88	184.0	0.4418	16.49	19880.40	0.001
T3	220 - 200	0.75 SR	3.00	2.88	184.0	0.4418	205.78	19880.40	0.010
T4	200 - 180	0.75 SR	3.00	2.88	184.0	0.4418	217.76	19880.40	0.011

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POD Group

1033 E Turkeyfoot Lake Rd, Suite 206

Green OH- 44312

Phone: 330-961-7440

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Section No.	Elevation f_t	Size	L f_t	L_u f_t	K/r	A in^2	P_u I_b	ϕP_u I_b	Ratio $\frac{P_u}{\phi P_u}$
T6	160 - 140	0.75 SR	3.00	2.88	184.0	0.4418	355.94	19880.40	0.018 ¹
T7	140 - 130	0.75 SR	3.00	2.88	184.0	0.4418	360.67	19880.40	0.018 ¹
T8	130 - 120	0.75 SR	3.00	2.80	179.3	0.4418	366.56	19880.40	0.018 ¹
T13	110 - 107.67	0.75 SR	3.00	2.80	179.3	0.4418	456.79	19880.40	0.023 ¹
T16	103 - 100	0.75 SR	3.00	2.80	179.3	0.4418	1140.06	19880.40	0.057 ¹
T17	100 - 80	0.75 SR	3.00	2.80	179.3	0.4418	590.55	19880.40	0.030 ¹
T18	80 - 60	0.75 SR	3.00	2.80	179.3	0.4418	478.47	19880.40	0.024 ¹
T20	40 - 20	0.75 SR	3.00	2.80	179.3	0.4418	523.00	19880.40	0.026 ¹
T21	20 - 5	0.75 SR	3.00	2.80	179.3	0.4418	533.02	19880.40	0.027 ¹
T22	5 - 0	0.75 SR	3.00	2.80	179.3	0.4418	5869.80	19880.40	0.295 ¹

* DL controls
¹ P_u / ϕP_u controls

Bottom Girt Design Data (Tension)

Section No.	Elevation f_t	Size	L f_t	L_u f_t	K/r	A in^2	P_u I_b	ϕP_u I_b	Ratio $\frac{P_u}{\phi P_u}$
T1	250 - 240	0.75 SR	3.00	2.88	184.0	0.4418	120.15	19880.40	0.006 ¹
T2	240 - 220	0.75 SR	3.00	2.88	184.0	0.4418	461.41	19880.40	0.023 ¹
T3	220 - 200	0.75 SR	3.00	2.88	184.0	0.4418	205.78	19880.40	0.010 ¹
T4	200 - 180	0.75 SR	3.00	2.88	184.0	0.4418	316.86	19880.40	0.016 ¹
T5	180 - 160	0.75 SR	3.00	2.88	184.0	0.4418	350.46	19880.40	0.018 ¹
T6	160 - 140	0.75 SR	3.00	2.88	184.0	0.4418	355.94	19880.40	0.018 ¹
T8	130 - 120	0.75 SR	3.00	2.80	179.3	0.4418	366.56	19880.40	0.018 ¹
T16	103 - 100	0.75 SR	3.00	2.80	179.3	0.4418	651.87	19880.40	0.033 ¹
T17	100 - 80	0.75 SR	3.00	2.80	179.3	0.4418	625.31	19880.40	0.031 ¹
T18	80 - 60	0.75 SR	3.00	2.80	179.3	0.4418	478.47	19880.40	0.024 ¹

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Section No.	Elevation <i>ft</i>	Size	<i>L</i>	<i>L_n</i>	<i>Kl/r</i>	<i>A</i>	<i>P_n</i>	ϕP_n	Ratio $\frac{P_n}{\phi P_n}$
T19	60 - 40	0.75 SR	3.00	2.80	179.3	0.4418	514.23	19880.40	0.026 ¹
T20	40 - 20	0.75 SR	3.00	2.80	179.3	0.4418	523.00	19880.40	0.026 ¹
T22	5 - 0	0.75 SR	0.21	0.01	0.9	0.4418	1069.44	19880.40	0.054 ¹

¹ *P_n* / ϕP_n controls

Mid Girt Design Data (Tension)

Section No.	Elevation <i>ft</i>	Size	<i>L</i>	<i>L_n</i>	<i>Kl/r</i>	<i>A</i>	<i>P_n</i>	ϕP_n	Ratio $\frac{P_n}{\phi P_n}$
T2	240 - 220	0.75 SR	3.00	2.88	184.0	0.4418	705.10	19880.40	0.035 ¹
T3	220 - 200	0.75 SR	3.00	2.88	184.0	0.4418	75.42	19880.40	0.004 ¹
T4	200 - 180	0.75 SR	3.00	2.88	184.0	0.4418	100.29	19880.40	0.005 ¹
T6	160 - 140	0.75 SR	3.00	2.88	184.0	0.4418	119.26	19880.40	0.006 ¹
T17	100 - 80	0.75 SR	3.00	2.80	179.3	0.4418	1032.84	19880.40	0.052 ¹
T18	80 - 60	0.75 SR	3.00	2.80	179.3	0.4418	755.18	19880.40	0.038 ¹
T19	60 - 40	0.75 SR	3.00	2.80	179.3	0.4418	812.07	19880.40	0.041 ¹
T20	40 - 20	0.75 SR	3.00	2.80	179.3	0.4418	826.08	19880.40	0.042 ¹

¹ *P_n* / ϕP_n controls

Top Guy Pull-Off Design Data (Tension)

Section No.	Elevation <i>ft</i>	Size	<i>L</i>	<i>L_n</i>	<i>Kl/r</i>	<i>A</i>	<i>P_n</i>	ϕP_n	Ratio $\frac{P_n}{\phi P_n}$
T2	240 - 220	(2) 7/8" SR	3.00	2.88	157.8	1.2026	3379.47	54117.00	0.062 ¹
T5	180 - 160	(2) 7/8" SR	3.00	2.88	157.8	1.2026	1287.17	54117.00	0.024 ¹
T9	120 - 117	(2) 7/8" SR	3.00	2.80	153.8	1.2026	857.05	54117.00	0.016 ¹
T19	60 - 40	0.75 SR	3.00	2.80	179.3	0.4418	1750.49	19880.40	0.088 ¹

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Section No.	Elevation	Size	L	L _u	Kl/r	A	P _u	φP _u	Ratio $\frac{P_u}{\phi P_u}$
	ft		ft	ft		in ²	lb	lb	

¹ P_u / φP_u controls

Torque-Arm Top Design Data

Section No.	Elevation	Size	L	L _u	Kl/r	A	P _u	φP _u	Ratio $\frac{P_u}{\phi P_u}$
	ft		ft	ft		in ²	lb	lb	$\frac{P_u}{\phi P_u}$
T2	240 - 220 (1012)	2L3x3x5/16x3/8	6.67	6.60	85.9	3.5500	8676.31	115020.00	0.075 ¹
T2	240 - 220 (1013)	2L3x3x5/16x3/8	6.67	6.60	85.9	3.5500	6825.12	115020.00	0.059 ¹
T2	240 - 220 (1018)	2L3x3x5/16x3/8	6.67	6.60	85.9	3.5500	7625.57	115020.00	0.066 ¹
T2	240 - 220 (1019)	2L3x3x5/16x3/8	6.67	6.60	85.9	3.5500	7677.53	115020.00	0.067 ¹
T2	240 - 220 (1024)	2L3x3x5/16x3/8	6.67	6.60	85.9	3.5500	8730.62	115020.00	0.076 ¹
T2	240 - 220 (1025)	2L3x3x5/16x3/8	6.67	6.60	85.9	3.5500	6826.57	115020.00	0.059 ¹
T5	180 - 160 (1030)	2L3x3x5/16x3/8	6.67	6.60	85.9	3.5500	4956.19	115020.00	0.043 ¹
T5	180 - 160 (1031)	2L3x3x5/16x3/8	6.67	6.60	85.9	3.5500	5135.01	115020.00	0.045 ¹
T5	180 - 160 (1036)	2L3x3x5/16x3/8	6.67	6.60	85.9	3.5500	4925.23	115020.00	0.043 ¹
T5	180 - 160 (1037)	2L3x3x5/16x3/8	6.67	6.60	85.9	3.5500	4966.06	115020.00	0.043 ¹
T5	180 - 160 (1042)	2L3x3x5/16x3/8	6.67	6.60	85.9	3.5500	5007.23	115020.00	0.044 ¹
T5	180 - 160 (1043)	2L3x3x5/16x3/8	6.67	6.60	85.9	3.5500	5144.89	115020.00	0.045 ¹
T10	117 - 114.67 (1048)	2L3x3x5/16x3/8	6.67	6.67	86.8	3.5500	3358.00	115020.00	0.029 ¹
T10	117 - 114.67 (1049)	2L3x3x5/16x3/8	6.67	6.67	86.8	3.5500	3505.17	115020.00	0.030 ¹
T10	117 - 114.67 (1054)	2L3x3x5/16x3/8	6.67	6.67	86.8	3.5500	3318.11	115020.00	0.029 ¹
T10	117 - 114.67 (1055)	2L3x3x5/16x3/8	6.67	6.67	86.8	3.5500	3358.63	115020.00	0.029 ¹
T10	117 - 114.67 (1060)	2L3x3x5/16x3/8	6.67	6.67	86.8	3.5500	3405.58	115020.00	0.030 ¹
T10	117 - 114.67 (1061)	2L3x3x5/16x3/8	6.67	6.67	86.8	3.5500	3512.49	115020.00	0.031 ¹

¹ P_u / φP_u controls

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Section Capacity Table

Section No.	Elevation ft	Component Type	Size	Critical Element	P lb	ϕP_{allow} lb	% Capacity	Pass / Fail
T1	250 - 240	Leg	1.5 SR	2	-715.82	55954.90	1.3	Pass
T2	240 - 220	Leg	1.5 SR	43	-11986.60	52899.40	22.7	Pass
T3	220 - 200	Leg	1.5 SR	117	-11751.10	73221.00	16.0	Pass
T4	200 - 180	Leg	1.5 SR	199	-12401.50	73221.00	16.9	Pass
T5	180 - 160	Leg	1.5 SR	285	-20234.10	73221.00	27.6	Pass
T6	160 - 140	Leg	1.5 SR	369	-20368.10	73221.00	27.8	Pass
T7	140 - 130	Leg	1.5 SR	453	-20639.00	71947.10	28.7	Pass
T8	130 - 120	Leg	1.5" SR w/ P2-XX Half Pipe	495	-20921.30	130615.00	16.0	Pass
T9	120 - 117	Leg	1.5" SR w/ P2-XX Half Pipe	540	-24047.60	130463.00	18.4	Pass
T10	117 - 114.67	Leg	1.5" SR w/ P2-XX Half Pipe	555	-23520.70	130487.00	18.0	Pass
T11	114.67 - 112.33	Leg	1.5" SR w/ P2-XX Half Pipe	567	-25600.10	130414.00	19.6	Pass
T12	112.33 - 110	Leg	1.5" SR w/ P2-XX Half Pipe	579	-26372.80	130487.00	20.2	Pass
T13	110 - 107.67	Leg	1.5" SR w/ P2-XX Half Pipe	591	-25958.50	107303.00	24.2	Pass
T14	107.67 - 105.33	Leg	1.5" SR w/ P2-XX Half Pipe	604	-26832.60	107063.00	25.1	Pass
T15	105.33 - 103	Leg	1.5" SR w/ P2-XX Half Pipe	615	-26118.70	107303.00	24.3	Pass
T16	103 - 100	Leg	1.5" SR w/ P2-XX Half Pipe	626	-25527.80	107223.00	23.8	Pass
T17	100 - 80	Leg	1.5" SR w/ P2-XX Half Pipe	642	-27175.10	107223.00	25.3	Pass
T18	80 - 60	Leg	1.5" SR w/ P2-XX Half Pipe	716	-27613.50	107223.00	25.8	Pass
T19	60 - 40	Leg	1.5" SR w/ P2-XX Half Pipe	790	-29663.10	107223.00	27.7	Pass
T20	40 - 20	Leg	1.5" SR w/ P2-XX Half Pipe	864	-30181.30	107223.00	28.1	Pass
T21	20 - 5	Leg	1.5" SR w/ P2-XX Half Pipe	938	-30773.80	105880.00	29.1	Pass
T22	5 - 0	Leg	1.5" SR w/ P2-XX Half Pipe	991	-32653.90	104181.00	31.3	Pass
T1	250 - 240	Diagonal	0.75 SR	10	-224.41	11724.20	1.9	Pass
T2	240 - 220	Diagonal	0.75 SR	104	-1250.24	11780.10	10.6	Pass
T3	220 - 200	Diagonal	0.75 SR	195	-197.03	11780.10	1.7	Pass
T4	200 - 180	Diagonal	0.75 SR	216	-591.40	11780.10	5.0	Pass
T5	180 - 160	Diagonal	0.75 SR	353	-853.17	11780.10	7.2	Pass
T6	160 - 140	Diagonal	0.75 SR	384	-209.79	11780.10	1.8	Pass
T7	140 - 130	Diagonal	0.75 SR	489	-210.93	11771.90	1.8	Pass
T8	130 - 120	Diagonal	0.75 SR	507	-283.87	11720.20	2.4	Pass
T9	120 - 117	Diagonal	0.75 SR	548	-92.62	11725.80	0.8	Pass
T10	117 - 114.67	Diagonal	0.75 SR	560	-561.25	11724.90	4.8	Pass
T11	114.67 - 112.33	Diagonal	0.75 SR	568	-532.40	11721.70	4.5	Pass
T12	112.33 - 110	Diagonal	0.75 SR	581	120.61	19880.40	0.6	Pass
T13	110 - 107.67	Diagonal	0.75 SR	595	-837.30	11724.90	7.1	Pass
T14	107.67 - 105.33	Diagonal	0.75 SR	606	-683.85	11721.70	5.8	Pass
T15	105.33 - 103	Diagonal	0.75 SR	617	-680.76	11724.90	5.8	Pass
T16	103 - 100	Diagonal	0.75 SR	636	-873.15	11725.80	7.4	Pass
T17	100 - 80	Diagonal	0.75 SR	652	-830.44	11725.80	7.1	Pass
T18	80 - 60	Diagonal	0.5625 SR	726	-584.42	4455.35	13.1	Pass
T19	60 - 40	Diagonal	0.5625 SR	800	-627.10	4455.35	14.1	Pass
T20	40 - 20	Diagonal	0.5625 SR	874	-640.37	4455.35	14.4	Pass
T21	20 - 5	Diagonal	0.5625 SR	950	-687.60	4407.72	15.6	Pass
T22	5 - 0	Diagonal	0.5625 SR	1000	-2033.01	5639.65	36.0	Pass
T1	250 - 240	Horizontal	0.75 SR	25	-25.20	6016.18	0.4	Pass
T2	240 - 220	Horizontal	0.75 SR	99	-1642.42	6016.18	27.3	Pass
T14	107.67 - 105.33	Horizontal	0.75 SR	605	1212.54	19880.40	6.1	Pass
T15	105.33 - 103	Horizontal	0.75 SR	616	1064.64	19880.40	5.4	Pass
T17	100 - 80	Horizontal	0.75 SR	659	1255.50	19880.40	6.3	Pass
T18	80 - 60	Horizontal	0.75 SR	733	907.15	19880.40	4.6	Pass
T19	60 - 40	Horizontal	0.75 SR	807	985.84	19880.40	5.0	Pass
T20	40 - 20	Horizontal	0.75 SR	881	1005.43	19880.40	5.1	Pass
T21	20 - 5	Horizontal	0.75 SR	981	1019.40	19880.40	5.1	Pass
T1	250 - 240	Secondary Horizontal	0.75 SR	16	-0.00	11908.10	0.0	Pass
T2	240 - 220	Secondary Horizontal	0.75 SR	106	-0.00	11908.10	0.0	Pass
T3	220 - 200	Secondary Horizontal	0.75 SR	134	-205.78	6016.18	3.4	Pass
T4	200 - 180	Secondary Horizontal	0.75 SR	217	-217.76	6016.18	3.6	Pass
T5	180 - 160	Secondary Horizontal	0.75 SR	303	-350.46	6016.18	5.8	Pass

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Client				Array Inc.				Designed by	
								utoluganti	
Section No.	Elevation ft	Component Type	Size	Critical Element	P lb	σP_{allow} lb	% Capacity	Pass Fail	
T6	160 - 140	Secondary Horizontal	0.75 SR	386	-355.94	6016.18	5.9	Pass	
T7	140 - 130	Secondary Horizontal	0.75 SR	464	-360.67	6016.18	6.0	Pass	
T8	130 - 120	Secondary Horizontal	0.75 SR	510	-366.56	6333.36	5.8	Pass	
T9	120 - 117	Secondary Horizontal	0.75 SR	551	-416.52	6333.36	6.6	Pass	
T10	117 - 114.67	Secondary Horizontal	0.75 SR	564	-407.39	6333.36	6.4	Pass	
T11	114.67 - 112.33	Secondary Horizontal	0.75 SR	575	-443.41	6333.36	7.0	Pass	
T12	112.33 - 110	Secondary Horizontal	0.75 SR	587	-456.79	6333.36	7.2	Pass	
T13	110 - 107.67	Secondary Horizontal	0.75 SR	601	-0.00	11988.80	0.0	Pass	
T14	107.67 - 105.33	Secondary Horizontal	0.75 SR	612	-0.00	11988.80	0.0	Pass	
T15	105.33 - 103	Secondary Horizontal	0.75 SR	623	-0.00	11988.80	0.0	Pass	
T16	103 - 100	Secondary Horizontal	0.75 SR	639	-0.00	11988.80	0.0	Pass	
T17	100 - 80	Secondary Horizontal	0.75 SR	705	-0.00	11988.80	0.0	Pass	
T18	80 - 60	Secondary Horizontal	0.75 SR	779	-0.00	11988.80	0.0	Pass	
T19	60 - 40	Secondary Horizontal	0.75 SR	806	-0.00	11988.80	0.0	Pass	
T20	40 - 20	Secondary Horizontal	0.75 SR	880	-0.00	11988.80	0.0	Pass	
T21	20 - 5	Secondary Horizontal	0.75 SR	948	-0.00	11988.80	0.0	Pass	
T1	250 - 240	Top Girt	0.75 SR	4	-16.49	6016.18	0.3	Pass	
T3	220 - 200	Top Girt	0.75 SR	119	-205.78	6016.18	3.4	Pass	
T4	200 - 180	Top Girt	0.75 SR	202	-217.76	6016.18	3.6	Pass	
T6	160 - 140	Top Girt	0.75 SR	371	-355.94	6016.18	5.9	Pass	
T7	140 - 130	Top Girt	0.75 SR	455	-360.67	6016.18	6.0	Pass	
T8	130 - 120	Top Girt	0.75 SR	498	-366.56	6333.36	5.8	Pass	
T13	110 - 107.67	Top Girt	0.75 SR	593	-456.79	6333.36	7.2	Pass	
T16	103 - 100	Top Girt	0.75 SR	628	-461.24	6333.36	7.3	Pass	
T17	100 - 80	Top Girt	0.75 SR	644	-470.80	6333.36	7.4	Pass	
T18	80 - 60	Top Girt	0.75 SR	718	-478.47	6333.36	7.6	Pass	
T20	40 - 20	Top Girt	0.75 SR	866	-523.00	6333.36	8.3	Pass	
T21	20 - 5	Top Girt	0.75 SR	941	-533.02	6333.36	8.4	Pass	
T22	5 - 0	Top Girt	0.75 SR	992	5869.80	19880.40	29.5	Pass	
T1	250 - 240	Bottom Girt	0.75 SR	9	-114.30	6016.18	1.9	Pass	
T2	240 - 220	Bottom Girt	0.75 SR	49	-207.62	6016.18	3.5	Pass	
T3	220 - 200	Bottom Girt	0.75 SR	122	-205.78	6016.18	3.4	Pass	
T4	200 - 180	Bottom Girt	0.75 SR	206	-227.22	6016.18	3.8	Pass	
T5	180 - 160	Bottom Girt	0.75 SR	291	-350.46	6016.18	5.8	Pass	
T6	160 - 140	Bottom Girt	0.75 SR	374	-355.94	6016.18	5.9	Pass	
T8	130 - 120	Bottom Girt	0.75 SR	501	-366.56	6333.36	5.8	Pass	
T16	103 - 100	Bottom Girt	0.75 SR	631	-461.24	6333.36	7.3	Pass	
T17	100 - 80	Bottom Girt	0.75 SR	647	-470.80	6333.36	7.4	Pass	
T18	80 - 60	Bottom Girt	0.75 SR	721	-478.47	6333.36	7.6	Pass	
T19	60 - 40	Bottom Girt	0.75 SR	796	-514.23	6333.36	8.1	Pass	
T20	40 - 20	Bottom Girt	0.75 SR	869	-523.00	6333.36	8.3	Pass	
T22	5 - 0	Bottom Girt	0.75 SR	996	1069.44	19880.40	5.4	Pass	
T2	240 - 220	Mid Girt	0.75 SR	52	-396.70	6016.18	6.6	Pass	
T3	220 - 200	Mid Girt	0.75 SR	125	75.42	19880.40	0.4	Pass	
T4	200 - 180	Mid Girt	0.75 SR	208	100.29	19880.40	0.5	Pass	
T5	180 - 160	Mid Girt	0.75 SR	292	-341.33	6016.18	5.7	Pass	
T6	160 - 140	Mid Girt	0.75 SR	377	119.26	19880.40	0.6	Pass	
T17	100 - 80	Mid Girt	0.75 SR	649	1032.84	19880.40	5.2	Pass	
T18	80 - 60	Mid Girt	0.75 SR	723	755.18	19880.40	3.8	Pass	
T19	60 - 40	Mid Girt	0.75 SR	797	812.07	19880.40	4.1	Pass	
T20	40 - 20	Mid Girt	0.75 SR	871	826.08	19880.40	4.2	Pass	
T2	240 - 220	Guy A.@237	9/16	1023	5503.39	21000.00	26.2	Pass	
T5	180 - 160	Guy A.@177	7/16	1041	3698.91	12480.00	29.6	Pass	
T10	117 - 114.67	Guy A.@117	3/8	1059	2721.12	9240.00	29.4	Pass	
T19	60 - 40	Guy A.@59.3333	3/8	1066	2993.28	9240.00	32.4	Pass	
T2	240 - 220	Guy B.@237	9/16	1016	5373.31	21000.00	25.6	Pass	
T5	180 - 160	Guy B.@177	7/16	1034	3578.49	12480.00	28.7	Pass	
T10	117 - 114.67	Guy B.@117	3/8	1052	2625.68	9240.00	28.4	Pass	
T19	60 - 40	Guy B.@59.3333	3/8	1065	2889.29	9240.00	31.3	Pass	
T2	240 - 220	Guy C.@237	9/16	1011	5329.71	21000.00	25.4	Pass	
T5	180 - 160	Guy C.@177	7/16	1029	3539.53	12480.00	28.4	Pass	

inxTower POD Group 1033 E Turkeyfoot Lake Rd, Suite 206 Green OH- 44312 Phone: 330-961-7440 FAX:	Job	425322	Page 50 of 50
	Project	26-195249	Date 11:58:56 05/21/26
	Client	Array Inc.	Designed by utluganti

Section No.	Elevation ft	Component Type	Size	Critical Element	P lb	ϕP_{allow} lb	% Capacity	Pass Fail
T10	117 - 114.67	Guy C@117	3/8	1047	2598.03	9240.00	28.1	Pass
T19	60 - 40	Guy C@59.3333	3/8	1064	2864.09	9240.00	31.0	Pass
T2	240 - 220	Top Guy	(2) 7/8" SR	44	3379.47	54117.00	6.2	Pass
		Pull-Off@237						
T5	180 - 160	Top Guy	(2) 7/8" SR	286	1287.17	54117.00	2.4	Pass
		Pull-Off@177						
T9	120 - 117	Top Guy	(2) 7/8" SR	541	857.05	54117.00	1.6	Pass
		Pull-Off@117						
T19	60 - 40	Top Guy	0.75 SR	791	1750.49	19880.40	8.8	Pass
		Pull-Off@59.3333						
T2	240 - 220	Torque Arm	2L3x3x5/16x3/8	1024	8730.62	115020.00	7.6	Pass
		Top@237						
T5	180 - 160	Torque Arm	2L3x3x5/16x3/8	1043	5144.89	115020.00	4.5	Pass
		Top@177						
T10	117 - 114.67	Torque Arm	2L3x3x5/16x3/8	1061	3512.49	115020.00	3.1	Pass
		Top@117						
T2	240 - 220	Torque Arm	2L3x3x5/16x3/8	1026	-7442.99	97678.90	7.6	Pass
		Bottom@237						
T5	180 - 160	Torque Arm	2L3x3x5/16x3/8	1045	-4100.95	97678.90	4.2	Pass
		Bottom@177						
T10	117 - 114.67	Torque Arm	2L3x3x5/16x3/8	1063	-2559.46	97829.90	2.6	Pass
		Bottom@117						
Summary								
		Leg (T22)	31.3					Pass
		Diagonal (T22)	36.0					Pass
		Horizontal (T2)	27.3					Pass
		Secondary (T12)	7.2					Pass
		Horizontal (T12)						
		Top Girt (T12)	29.5					Pass
		Bottom Girt (T22)						
		Bottom Girt (T20)	8.3					Pass
		Mid Girt (T2)	6.6					Pass
		Guy A (T19)	32.4					Pass
		Guy B (T19)	31.3					Pass
		Guy C (T19)	31.0					Pass
		Top Guy	8.8					Pass
		Pull-Off (T19)						
		Torque Arm	7.6					Pass
		Top (T2)						
		Torque Arm	7.6					Pass
		Bottom (T2)						
		Bolt Checks	12.4					Pass
		RATING =	36.0					Pass

4A-3

2026-19
\$1320.20



Please post in a conspicuous location

TOWN OF TROY, NH

PERMIT TO PERFORM WORK

PURSUANT TO RSA 154

Jonison Vandyke has been

Issued Permit No. 2026-19, to erect (X), alter (),

New 3,772sqft Condo w/ 2 units

at: South Street Tax Map 14 Lot 12C-2

Date _____

Authority Having Jurisdiction _____

Expiration Date _____

This document must be completed and returned to the Administrative Assistant with all applicable signatures upon completion of work.

Please see reverse side for required signoffs upon completion.

Please remember that buildings or portions of buildings shall not be occupied during construction, repair, or alteration without the approval of the appropriate authority.

INSPECTIONS**APPROVAL
SIGNATURE****DATE**

HEALTH OFFICER

WATER/SEWER

DRIVEWAYS

FIRE CHIEF

CODE ENFORCEMENT
OFFICER**FINAL COMPLETION/OCCUPANCY PERMIT**



X

Town of Troy Permit Application
16 Central Square
Troy, NH. 03465
(603)242-7722

N Permit #
2026-19
Permit fee
\$1320.20

Property Information-Where improvements are proposed

14/12C-2

Street # Street Name Southern ST. Map/Lot 2
Zoning R70 Floodplain Wetlands Elevation Certification

Is this property a conforming lot? yes

(Please see Zoning Ordinance or contact the Selectmen's Office for clarification)

Owner Information-Who owns the property

Name: Jamison Vandyke Address: Unit 5 1224 RTE 119 Rindge N.H. 03461
City/State/Zip:

Phone # 603 978-888-8407 Email: JBVandyke@Sormopfoundations.com

Applicant Information-If not the owner of the property

Name: Tom Harvey Address: Unit 5 1224 N.H. RTE 119

City/State/Zip: Rindge N.H. 03461

Phone # 603-313-2535 Email: Tom.harvey.nh@gmail.com

Name of Contact for this Project: Tom Harvey Phone: 603-313-2535

Applicant Information-Describe proposed improvements

Permit Type: ☒ Building ☐ Electrical ☐ Plumbing ☐ Other

Building Use: ☒ Single family ☐ Multi-Family ☐ Commercial ☐ Other

Work Type: New ☒ Addition ☐ Renovation ☐ Move ☐ Other Sq. Ft. of work to be done: 3772

Description of work: New Condo building 2 units

Plumbing and Electrical sub-contractors-Signature indicates responsibility for compliance with laws and codes

Electrical contractor-State License Number: 12432M Exp. Date: 03/31/2027

Name: Harvey Electric Inc Address: 50 WALCY RD.

City/State/Zip: Jaffrey N.H. 03452

Phone # 603-313-2535 Email: Tom.harvey.nh@gmail.com

License Holder's Signature: [Signature] Date: 7/20/2026

Plumbing Contractor- State License Number: Exp. Date:

Name: Centerline Plumbing & Heating Address:

City/State/Zip:

Phone # 978-895-3243 Email: Centerline Plumbing Heating, Inc

License Holder's Signature: [Signature] Date: 7/21/2026

Heating and Air Conditioning Contractor- State License Number:

Exp. Date: _____
Name: _____ Address: _____
City/State/Zip: N/A
Phone # _____ Email: _____
License Holders Signature: _____ Date: _____

Design Professional-Responsible Architect or Engineer

Name: David Schita Address: Unit 5 1224 NH. RTE 119
City/State/Zip: Rand. NH. 03461
Phone # 603-213-3981 Email: _____

Please note the following by checking the appropriate lines:

This property is to be hooked up with _____ Town water and/or _____ Town Sewer.

OR

This property will be hooked up to X private well and/or X septic.

☒ I hereby certify that as the applicant for permit, I am the owner of this property __, or the owner's authorized agent (check one). I hereby declare that the statements and information contained in this application and submitted in conjunction with said application are true and accurate to the best of my knowledge. I understand that I am responsible to ensure all construction or other work will be completed in accord with all Federal, State and Local Laws, code and ordinances, including but not limited to the State Building Code NHRSA 155-A. **I understand that I am responsible to ensure that all inspections will be completed as required by the Town, and no structure will be used in violation of Federal, State, and Local Laws, code and ordinances.** The making of false statement on this form shall constitute a criminal offense.

Applicant printed name: Tom Harvey
Applicant signature: [Signature] Date: 7-21-2028

BUILDING PERMIT FEES & INFORMATION

1. Major Requirements for Permits:

- ☒ a. All Zoning Ordinance requirements must be met.
- ☒ b. Must have State permit for septic systems or file an application for a Town Sewer connection.
- ☒ c. Approved Driveway permit from Town
- ☒ d. Three (3) sets of building plans and plot plans showing location and setbacks of project.
- ☒ e. Must establish drinking water source. (Private well or Town water). A copy of the water source plan is required with application.
- f. Floodplain
- ☒ g. Elevation certification.
- h. American Disability Association compliance-if applicable.

2. Inspections: *It is the responsibility of the owner to insure inspections are completed on time. See attached Building Inspection Schedule and Criteria.*

Permit fees are as follows:

New Construction – Manufactured or Modular	\$0.15 per square foot
New Construction – Stick Built	\$0.20 per square foot
Outbuildings/Carports/Decks/Porches/Sheds (Does not include temporary = six months or less.)	Up to 200 square feet, no permit required. 200 square feet and over = \$35.00 plus \$0.35 per square foot thereafter, and permit required.
Fences	\$35.00
Pools	\$35.00
Barns/Garages/Additions	\$0.20 per square foot
New Commercial up to 2000 square feet	\$0.25 per square foot
New Commercial over 2000 square feet	\$0.35 per square foot
New Multifamily	\$0.35 per square foot <i>x 3772 sq ft</i>
Solar/Wind or Generator	Residential \$0.00 Commercial \$45.00
Reinspections	\$50.00
Addition or deletion of a kitchen or bathroom (Does not apply to renovation of existing kitchens or bathrooms.)	\$50.00
Addition, deletion, or substantial modification of the foundation of an existing building (Does not include sill repairs, under pinning, repair, drainage, buttressing, walk-ways, stoops, bulkheads, driveways or patios.)	\$0.20 per square footage of a project area
Significant changes to previously submitted open permits (Significant for this purpose would be the addition or deletion of more than 200 square feet and addition or deletion of a kitchen or bathroom. Additionally, applicant is still responsible for difference in original calculated permit fee.)	\$50.00
Approved additional Dwelling Unit to be added to an existing property either by modification or addition	\$0.20 per square foot
Addition of an electrical meter (Does not include replacement or upgrade of existing meters or conversion from single phase to three phase service.)	\$50.00
Extension of any existing open permit for one-year. (All permits expire one year from date of issue. No permit may be extended more than twice for a total of three years on one application. If a permit remains open and the project remains incomplete at the expiration of permits all work must cease on the project until such time as a new permit is issued. If a permit has been extended twice and the project remains incomplete, a new application must be submitted to confirm that the project remains within the current regulations.)	\$50.00
Final Inspection Fee (Any permit that requires inspection that has not received a final inspection and sign off will be considered open and active until expiration. Individuals authorized to sign off on permits: Fire Chief, Building Inspector that is authorized or designated by the Select Board, or any two members of the Select Board.)	\$50.00

Electrical/Plumbing/Mechanical is included in all other permits.

THE FOLLOWING ITEMS DO NOT REQUIRE INSPECTION:

Meaning but not limited to replacement parts, fences less than six feet, like and kind replacement, painting, papering, tiling, reroofing, residing, carpet, toilets, faucets, and similar work. The following items do not require permit but must meet New Hampshire Emergency code: Reroofing residing, replacement doors and windows or emergency egress windows and doors, electrical meters(contact local electric company to clarify).

To contact inspectors, please call the following:

Fire Chief: Mark Huntoon 603-499-2051

Building Inspector: Mike Mastaler 603-499-1068 or BuildingCode@Troy.NH.Gov

The Town of Troy currently contracts with an individual to perform inspections on an as needed/wanted basis. The staff at Town Hall will contact the Building Inspector to schedule visits, as needed.

Permits for new construction of homes, additions, garages and barns require at least 4 inspections. These inspections are paid for by the building permit applicant at a rate of \$50 per hour for both the inspection itself and travel time, as well as mileage at the current IRS reimbursement rate (\$0.725 as of June 2026). ***Should your inspection fall on the same day as another in Town, the cost for travel will be split amongst the inspection appointments that day.***

The Four Inspections Required, At Minimum, Are As Follows:

- 1) Ground, drainage and foundation inspection
- 2) Rough framing, rough electrical and rough plumbing
- 3) Insulation inspection
- 4) A final inspection for the Certificate of Occupancy

****Failure to adhere to these inspection requirements or the direction of the Building Inspector, Code Enforcement Officer, or Fire Chief could delay the issuance of a Certificate of Occupancy.****

To inquire about building permits or building inspections,
please contact the Selectmen's Office at 603-242-7722 Ext. 1
or you can e-mail the Building Inspector directly: BuildingCode@Troy.NH.Gov

TROY SELECT BOARD:

Jody McDermott, Chair

Richard H. Thackston, III, Selectman

TJ Chasse, Selectman



Town of Troy

16 Central Square - PO Box 249 - Troy, New Hampshire 03465

Congratulations on beginning your new project!

You have completed the first step; you have successfully obtained a building permit.

There are some important things we want to make sure you know about the Permit and the process in the Town of Troy.

1. Your permit expires one year from date of issuance. Prior to the expiration of your permit, you must take one of three actions to close out your permit or your file will reflect an open permit with incomplete work which may raise issues for you in a future sale or re-finance. These problems are not the responsibility of the Town of Troy.
 - a. Option One: You have completed your work as permitted within the one-year time frame and you call the town for a final inspection which the Town issues within a week to ten days.
 - b. Option Two: You do not complete your work within the one-year time frame, and you obtain an extension to your permit for an additional year.
 - c. Option Three: You complete your work; you do not call for a final inspection the permit remains open and expired. You would be subject to any future rules as applicable if at a future time you attempt to re-permit your project.
2. Your permit entitles you to do work but does not cover the cost of any inspections. The Town of Troy expects you to complete work in a competent and skillful manner or hire professional who are licensed in relevant trades to do such work. If you are not competent or your contractors are not licensed or competent it is not the responsibility of the Town of Troy.
 - a. If you have a loan for your project that requires interim inspections, you will need to arrange and pay for these inspections. The Town of Troy does not pay for interim inspections.
 - b. If you are not sure of how to complete your work and need to consult with a building inspector or engineering firm, you must do so at your cost. The Town of Troy does not provide or pay for any such services.
 - c. The Town of Troy does not do septic system inspections. Septic installations are between you, your designer, your installer, and the State of NH. Troy does not allow new installations of Privies.
3. The Town of Troy specifically does not require or pay for the following inspections: Footing Inspections, Drainage Inspections, Dry Bed Septic Field Inspections, Backfill Inspections, Grading Inspections, Electrical Inspections, Plumbing Inspections, Insulation Inspections, Foundation Inspections, Close-In Inspections, Sewer Line Inspections. Heating System installations will be inspected by the Fire Chief or designee at the time of Final Inspection/Issuance of Certificate of Occupancy.
4. Final Inspections/Issuance of Certificate of Occupancy must be scheduled a week to ten days in advance.

Troy Housing Duplex-2

Troy, New Hampshire



DRAWING SHEET INDEX	
ARCHITECTURAL:	
CS-1	COVER SHEET - LIST OF DRAWINGS - CODE DATA
A-0	BASEMENT FLOOR PLAN
A-1	FIRST & SECOND FLOOR PLANS - DOOR & WINDOW SCHEDULES
A-2	EXTERIOR ELEVATIONS
STRUCTURAL:	
S-1	FOUNDATION PLAN & FIRST FLOOR FRAMING PLAN
S-2	SECOND FLOOR & ROOF FRAMING PLANS - LEGEND & NOTES

BUILDING CODES:

JURISDICTION: TOWN OF TROY, NH

APPLICABLE CODES:

IRC-2018 - INTERNATIONAL RESIDENTIAL CODE
IPC-2018 - INTERNATIONAL PLUMBING CODE
IMC-2018 - INTERNATIONAL MECHANICAL CODE
NEC-2018 - NATIONAL ELECTRICAL CODE
NFPA 101 - LIFE SAFETY CODE - 2018

GENERAL NOTES:

ALL WORK SHALL BE DONE ACCORDING TO APPLICABLE
STATE AND LOCAL CODES, IF THOSE ARE MORE
DEMANDING. ALL REQUIRED INSPECTIONS ARE
THE RESPONSIBILITY OF THE CONTRACTOR AND
MUST BE SCHEDULED IN ACCORDANCE WITH THE LOCAL
BUILDING INSPECTION / CODE ENFORCEMENT OFFICE.

PROJECT:

Troy Housing
Duplex-2 Apartments

Troy, New Hampshire

SUBJECT:

Cover Sheet
List of Drawings - Code Data

SHEET:

CS-1

DRAWN BY:

DES

SCALE:

As Noted

DATE:

7-8-26

DESIGN SOLUTIONS
David E. Siskala
20 Boston View Drive
New Ipswich, NH 03071
Ph. 603-878-2868 Cell 603-321-0321

DESIGN SOLUTIONS
David E. Siskalia
20 Boston View Drive
New Ipswich, NH 03071
Ph. 603-878-2868 Cell 603-321-0321

Basement Floor Plan
Door & Window Schedules

Troy Housing
Duplex-2 Apartments
Troy, New Hampshire

PROJECT
DESIGN
SCALE
As Noted
DATE
7-8-26

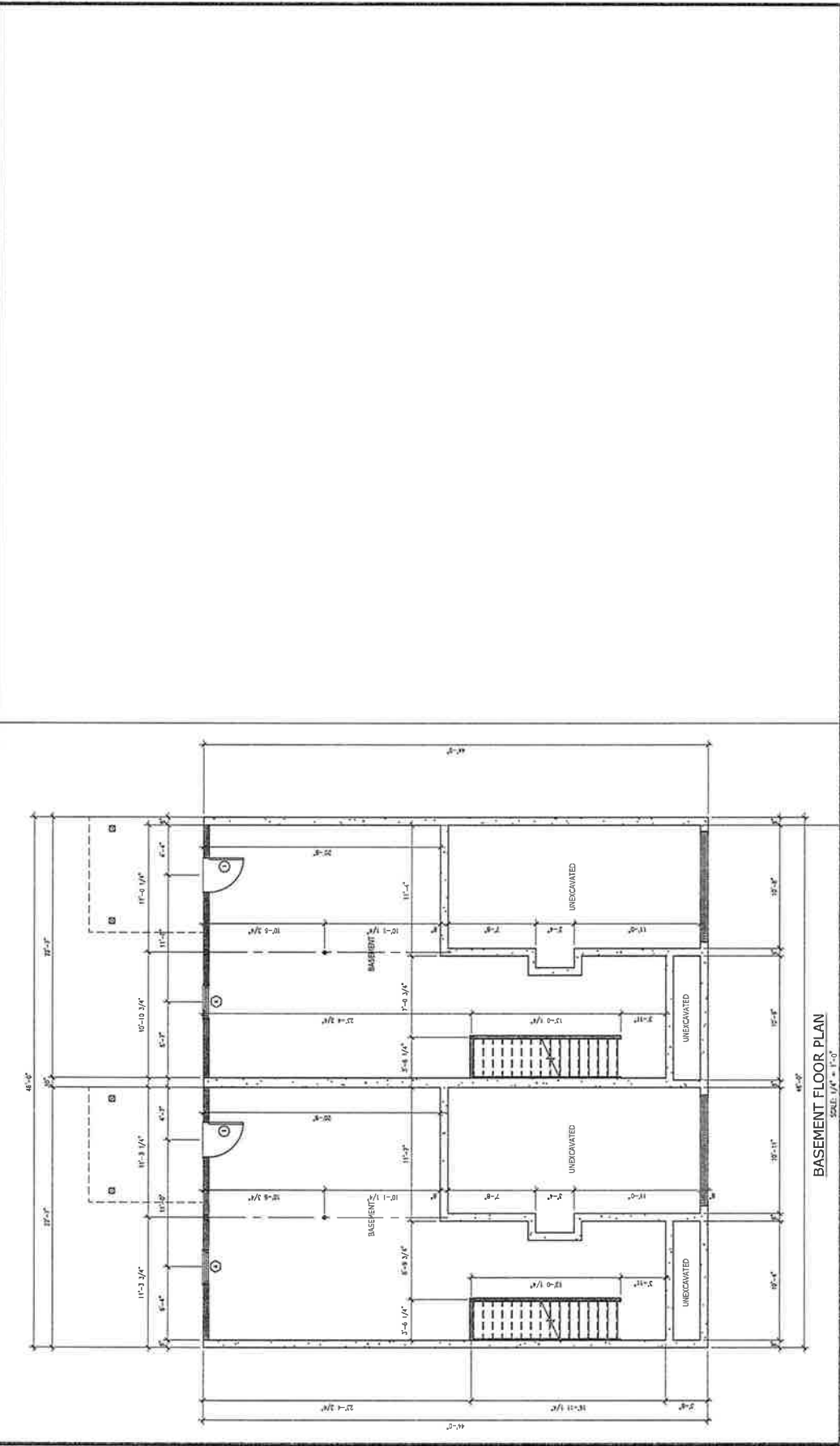
SHEET
A-0

GENERAL NOTES:
ALL WORK SHALL BE DONE ACCORDING TO APPLICABLE STATE AND LOCAL CODES, BY TRADESMEN COMPETENT IN THEIR PROFESSION, USING STANDARD ACCEPTED PRACTICES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE RESPONSIBILITY OF THE OWNER/CONTRACTOR AND MUST BE SCHEDULED AS REQUIRED BY THE LOCAL BUILDING INSPECTOR / CODE ENFORCEMENT OFFICER.

PLAN LEGEND
④ - SMOKE DETECTOR
④ - COMB. CARBON MONOXIDE / SMOKE DETECTOR
④ - COMB. EXHAUST FAN/LIGHT
④ - EXTERIOR WALL LIGHT
④ - DOOR NUMBER (DOOR SCHEDULE)
④ - WINDOW NUMBER (WINDOW SCHEDULE)
④ - PARTITION TYPE (PARTITION SCHEDULE)

WINDOW SCHEDULE				
TYPE	MINOR	STYLE	MODEL (W x H)	REMARKS
④	ALUMINUM	DOUBLE-HUNG	24 3/4" x 36 3/4"	UPPER WINDOW FRAME REINFORCED WITH 2x4 BRACING (S.E.S.)
④	ALUMINUM	DOUBLE-HUNG	24 3/4" x 36 3/4"	UPPER WINDOW FRAME REINFORCED WITH 2x4 BRACING (S.E.S.)
④	ALUMINUM	DOUBLE-HUNG	24 3/4" x 36 3/4"	UPPER WINDOW FRAME REINFORCED WITH 2x4 BRACING (S.E.S.)
④	ALUMINUM	DOUBLE-HUNG	24 3/4" x 36 3/4"	UPPER WINDOW FRAME REINFORCED WITH 2x4 BRACING (S.E.S.)
④	ALUMINUM	DOUBLE-HUNG	24 3/4" x 36 3/4"	UPPER WINDOW FRAME REINFORCED WITH 2x4 BRACING (S.E.S.)

DOOR SCHEDULE			
TYPE	STYLE	SIZE	REMARKS
④	PRE-FINISH	3'-0" x 6'-0"	INTERIOR DOOR, 1/2" LITE
④	PRE-FINISH	3'-0" x 6'-0"	INTERIOR DOOR, 1/2" LITE
④	PRE-FINISH	3'-0" x 6'-0"	INTERIOR DOOR, 1/2" LITE
④	PRE-FINISH	3'-0" x 6'-0"	INTERIOR DOOR, 1/2" LITE
④	PRE-FINISH	3'-0" x 6'-0"	INTERIOR DOOR, 1/2" LITE
④	PRE-FINISH	3'-0" x 6'-0"	INTERIOR DOOR, 1/2" LITE
④	PRE-FINISH	3'-0" x 6'-0"	INTERIOR DOOR, 1/2" LITE
④	PRE-FINISH	3'-0" x 6'-0"	INTERIOR DOOR, 1/2" LITE
④	PRE-FINISH	3'-0" x 6'-0"	INTERIOR DOOR, 1/2" LITE
④	PRE-FINISH	3'-0" x 6'-0"	INTERIOR DOOR, 1/2" LITE



GENERAL NOTES:

ALL WORK SHALL BE DONE ACCORDING TO APPLICABLE STATE AND LOCAL CODES. BY TRADESMEN COMPETENT IN THEIR PROFESSION, USING STANDARD ACCEPTED BUILDING PRACTICES. ALL REQUIRED INSPECTIONS ARE TO BE COMPLETED PRIOR TO THE START OF THE NEXT PHASE OF WORK. ALL WORK SHALL BE SUBJECT TO INSPECTION AND MUST BE SCHEDULED AS REQUIRED BY THE LOCAL BUILDING INSPECTOR / CODE ENFORCEMENT OFFICER.

PLAN LEGEND

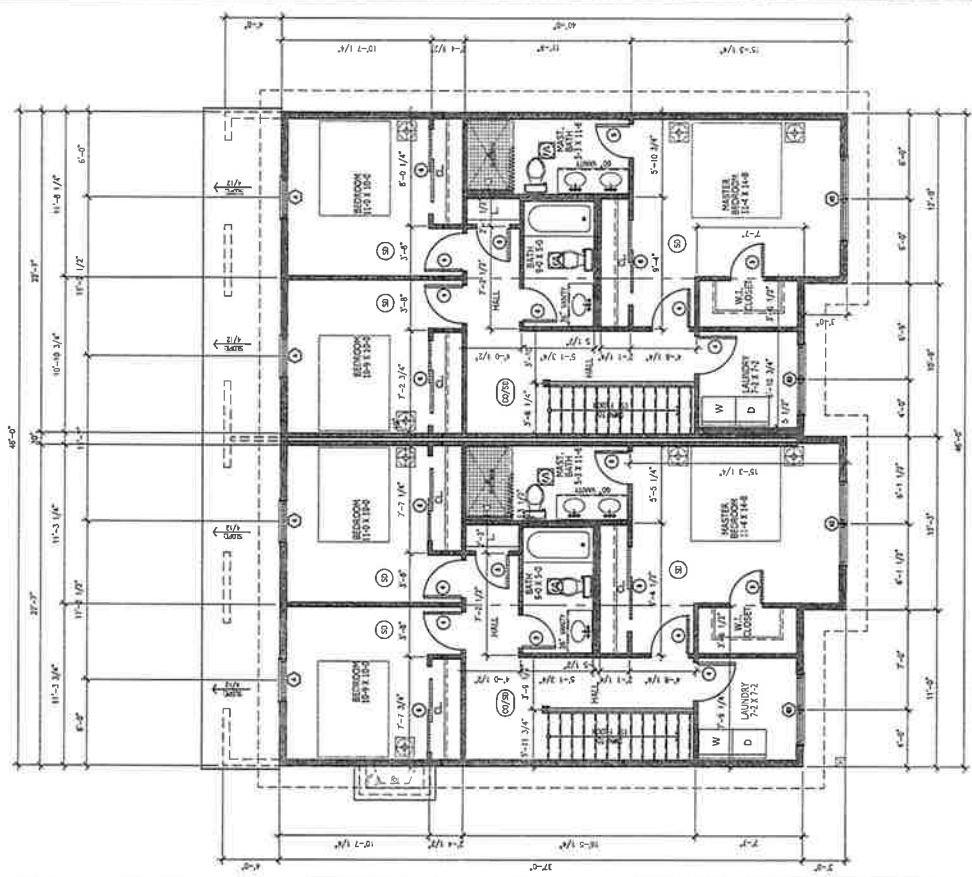
- SMOKE DETECTOR
- COMB. CARBON MONOXIDE / SMOKE DETECTOR
- COMB. EXHAUST FAN/LIGHT
- EXTERIOR WALL LIGHT
- DOOR NUMBER (DOOR SCHEDULE)
- WINDOW TYPE (WINDOW SCHEDULE)
- PARTITION TYPE (PARTITION SCHEDULE)

WINDOW SCHEDULE

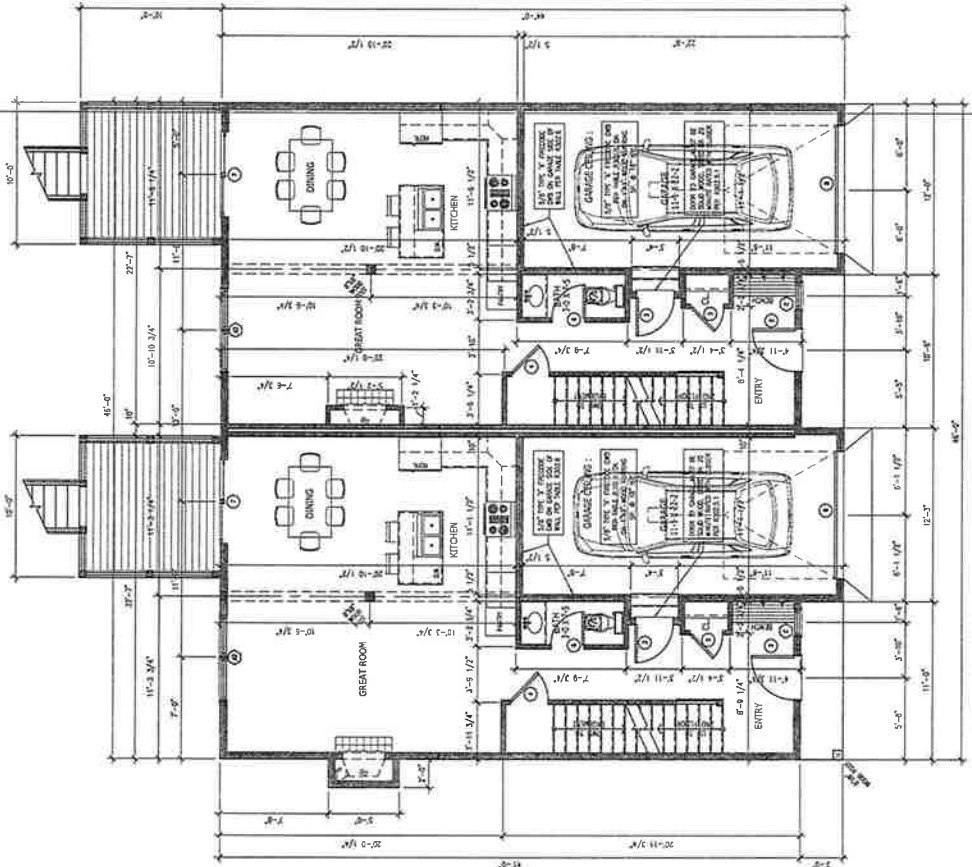
TYPE	PHNR.	STYLE	MODEL (SIZE)	R.O. (W x H)	REMARKS
1	ALUMINUM	DOUBLE-HUNG	000000	36 3/4" x 60 3/4"	LEFT WINDOW (SEE REMARKS)
2	ALUMINUM	DOUBLE-HUNG	000000	36 3/4" x 60 3/4"	RIGHT WINDOW (SEE REMARKS)
3	ALUMINUM	DOUBLE-HUNG	000000	36 3/4" x 60 3/4"	DOUBLE WINDOW (SEE REMARKS)
4	ALUMINUM	DOUBLE-HUNG	000000	36 3/4" x 60 3/4"	DOUBLE WINDOW (SEE REMARKS)
5	ALUMINUM	DOUBLE-HUNG	000000	36 3/4" x 60 3/4"	DOUBLE WINDOW (SEE REMARKS)

DOOR SCHEDULE

TYPE	STYLE	SIZE	HOWE.	REMARKS
1	PRE-FAB	3'-0" x 6'-6"	ENTRANCE LOCK	NEW MATERIALS & LITE
2	PRE-FAB	3'-0" x 6'-6"	ENTRANCE LOCK	NEW MATERIALS & LITE
3	PRE-FAB	3'-0" x 6'-6"	ENTRANCE LOCK	NEW MATERIALS & LITE
4	PRE-FAB	3'-0" x 6'-6"	ENTRANCE LOCK	NEW MATERIALS & LITE
5	PRE-FAB	3'-0" x 6'-6"	ENTRANCE LOCK	NEW MATERIALS & LITE
6	PRE-FAB	3'-0" x 6'-6"	ENTRANCE LOCK	NEW MATERIALS & LITE
7	PRE-FAB	3'-0" x 6'-6"	ENTRANCE LOCK	NEW MATERIALS & LITE
8	PRE-FAB	3'-0" x 6'-6"	ENTRANCE LOCK	NEW MATERIALS & LITE
9	PRE-FAB	3'-0" x 6'-6"	ENTRANCE LOCK	NEW MATERIALS & LITE
10	PRE-FAB	3'-0" x 6'-6"	ENTRANCE LOCK	NEW MATERIALS & LITE



SECOND FLOOR PLAN
 SCALE: 1/4" = 1'-0"



FIRST FLOOR PLAN
 SCALE: 1/4" = 1'-0"

A-2

SHEET:

DATE:

As Noted

SCALE

DES

DATE:

Troy Housing
Duplex-2 Apartments

Troy, New Hampshire

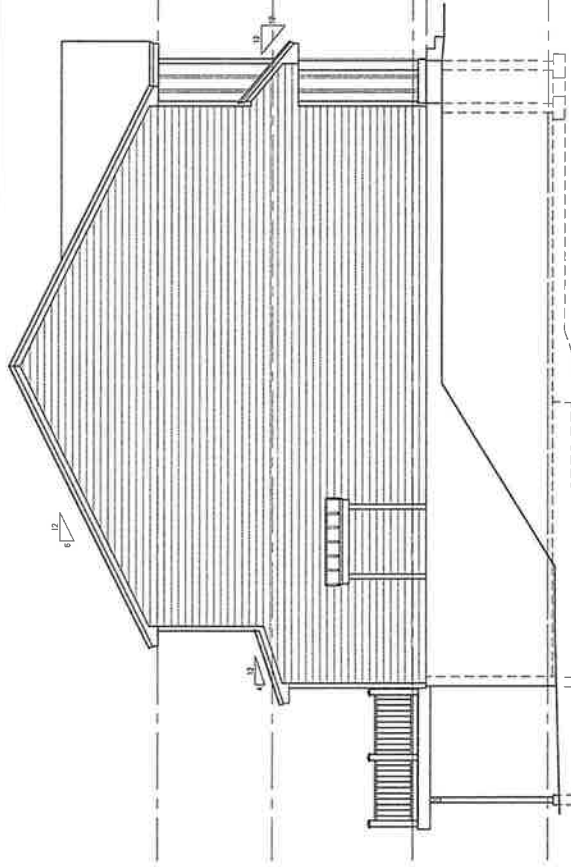
Exterior Elevations

DESIGN SOLUTIONS
David E. Siskala
20 Boston View Drive
New Ipswich, NH 03071
Ph. 603-878-2868 Cell 603-321-0321

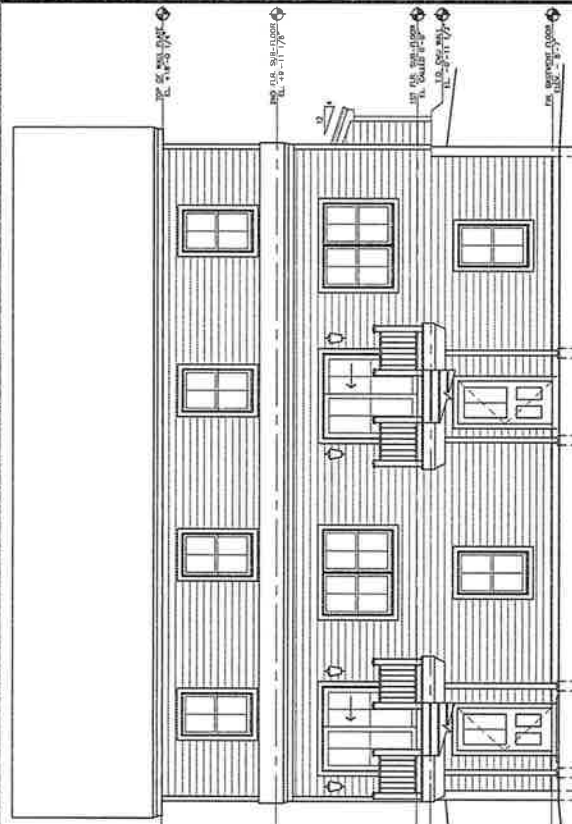
FRONT ELEVATION
SCALE: 1/4" = 1'-0"



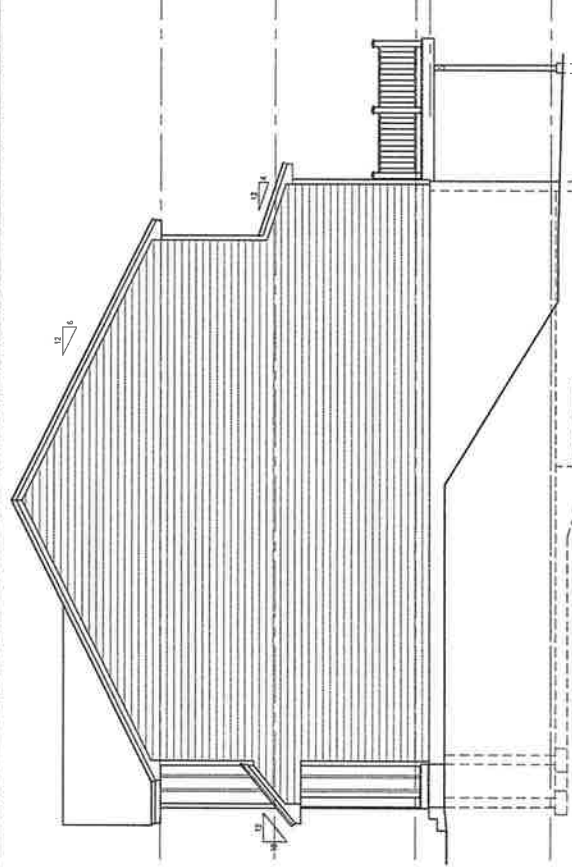
LEFT SIDE ELEVATION
SCALE: 1/4" = 1'-0"



REAR ELEVATION
SCALE: 1/4" = 1'-0"



RIGHT SIDE ELEVATION
SCALE: 1/4" = 1'-0"



[illegible][illegible]

ALL WORK SHALL BE DONE ACCORDING TO APPLICABLE STATE AND LOCAL CODES, BY TRADESMEN COMPETENT IN THEIR PROCESSES, USING STANDARD ACCEPTED BUILDING PRACTICES. ALL REQUIRED INSPECTIONS ARE THE RESPONSIBILITY OF THE OWNER/CONTRACTOR AND MUST BE SCHEDULED AS REQUIRED BY THE LOCAL BUILDING INSPECTOR / CODE ENFORCEMENT OFFICER.



[illegible][illegible]

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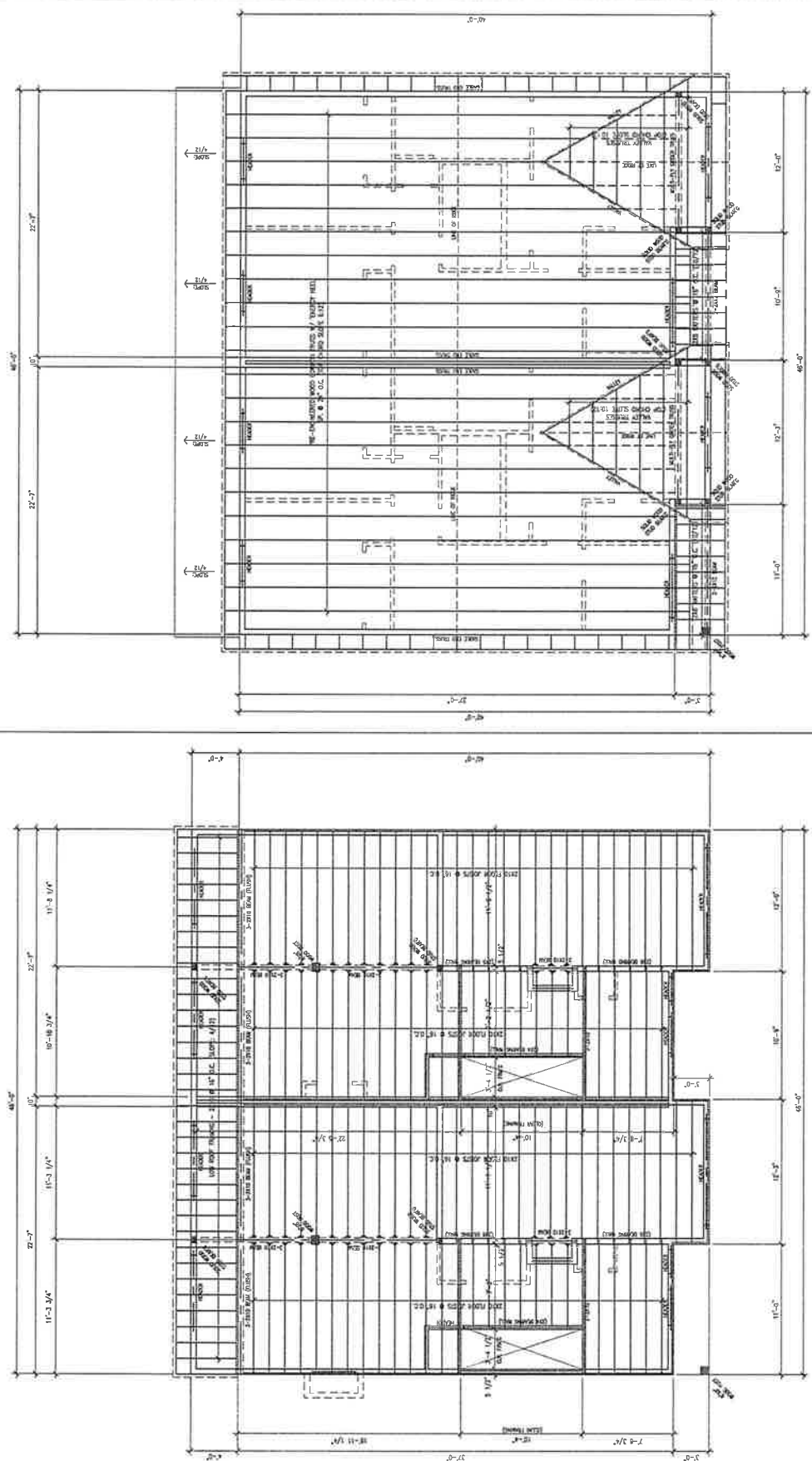
Second Floor Framing Plan
Roof Framing Plan

**Troy Housing
Duplex-2 Apartments**
Troy, New Hampshire

OWN BY: DES
SCALE: As Noted
DATE: 7-8-26

STREET:

S-2



SECOND FLOOR & REAR LOWER ROOF FRAMING PLAN

UPPER ROOF FRAMING PLAN

SCALE: 1/4" = 1'-0"



The State of New Hampshire
Department of Environmental Services



Robert R. Scott, Commissioner

**APPROVAL FOR CONSTRUCTION
OF INDIVIDUAL SEWAGE DISPOSAL SYSTEM (ISDS)**

AS AUTHORIZED BY THE NH DEPARTMENT OF ENVIRONMENTAL SERVICES, WATER DIVISION PURSUANT TO RSA 485-A, WATER POLLUTION AND WASTE DISPOSAL AND ENV-WQ 1000, SUBDIVISION AND INDIVIDUAL SEWAGE DISPOSAL SYSTEM DESIGN RULES.

APPLICATION APPROVAL DATE: 7/17/2026

APPROVAL NUMBER: eCA2026071719

I. PROPERTY INFORMATION

Address: SOUTH STREET

TROY NH 03465

Subdivision Approval No.: ESA2025050502

Subdivision Name:

County: CHESHIRE

Tax Map/Lot No.: 14/12C-2

II. OWNER INFORMATION

Name: JAMISON VANDYKE

Address: PAXTON DEVELOPMENT LLC

252 GODDDARD ROAD

RINDGE NH 03461

III. APPLICANT INFORMATION

Name: JOSHUA J JOSLYN-GRASEWICZ

Address: 323 W LAKE RD

FITZWILLIAM NH 03447

IV. DESIGNER INFORMATION

Name: JOSHUA J JOSLYN-GRASEWICZ

Address: 323 W LAKE RD

FITZWILLIAM NH 03447

Permit No.: 01913

V. SPECIFIC TERMS AND CONDITIONS: Applicable to this Approval for Construction

Please read **VI. General Terms and Conditions** on the reverse side of this approval.

A. TYPE OF SYSTEM: ENVIROSEPTIC

B. NO. OF BEDROOMS: 6

C. APARTMENT BEDROOMS: 0

D. APPROVED FLOW: 900 GPD

E. OTHER CONDITIONS AND WAIVERS:

1. This approval is valid for 4 years from date of approval, per Env-Wq 1004.13.
2. Approved for a duplex consisting of (two) 3-bedroom units @ 450gpd/unit; total flow 900gpd.
3. No waivers have been approved.

Darren K. King
Subsurface Systems Bureau

NHDES Web Site: www.des.nh.gov

P.O. Box 95, 29 Hazen Drive, Concord, New Hampshire 03302-0095

Telephone: (603) 271-3503 Fax: (603) 271-6683 TDD Access: Relay NH 1-800-735-2964

VI. GENERAL TERMS AND CONDITIONS: Applicable to all Approvals for Construction

- A. This Approval for Construction is issued to construct the ISDS as identified on Page 1 of this Approval.
- B. This Approval is valid until 7/17/2030, unless an Approval for Operation has been granted.
- C. By exercising any rights under this approval, the parties have agreed to all terms and conditions.
- D. No liability is incurred by the State of New Hampshire by reason of any approval of any Approval for Construction. Approval by the Department of Environmental Services of sewage and waste disposal systems is based on plans and specifications supplied by the Applicant.
- E. The system must be constructed in strict accordance with the approved plans and specifications.
- F. The installed system must be left uncovered and cannot be used after construction until it is inspected and has received an Approval for Operation of Individual Sewage Disposal System (ISDS) by an authorized agent of the Department.
- G. This system must be installed by an installer holding a valid permit. An owner may install the system for his or her domicile. Env-Wq 1002.18 defines "Domicile" as that place where an individual has his or her true, fixed, and permanent home and principal establishment, and to which, whenever he or she is absent, he or she has the intention of returning. An individual might have more than one residence, but has only one domicile. Accordingly, an owner may only install a replacement system and may not install the system at a property that he or she does not reside at and that he or she intends to make their future domicile.**
- H. This Approval for Construction does not supersede any equivalent or more stringent local ordinances or regulations. State standards are minimal and must be met statewide.

WORK NUMBER: 202603476

APPROVAL NUMBER: eCA2026071719

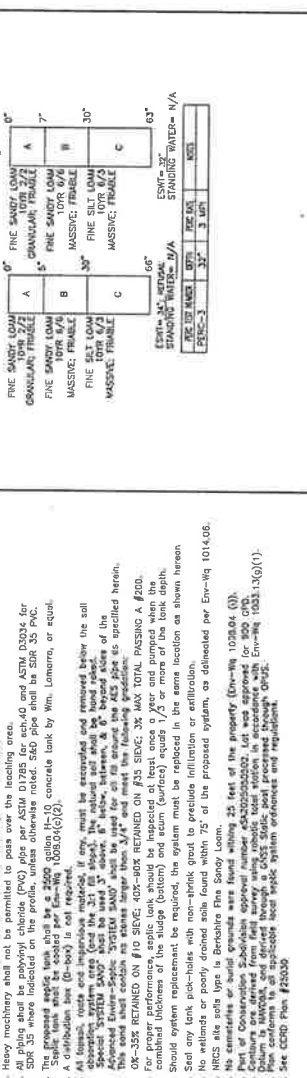
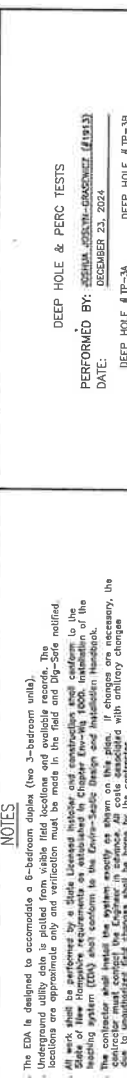
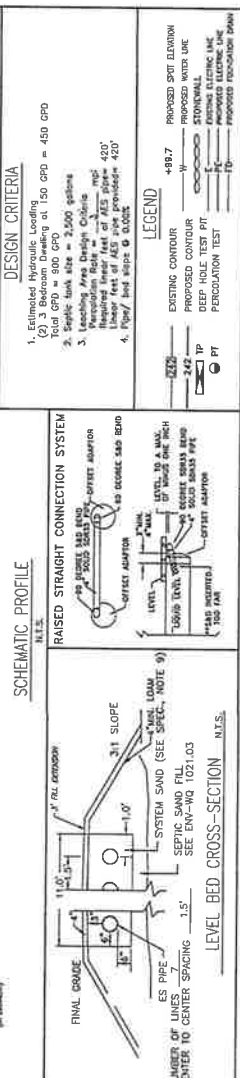
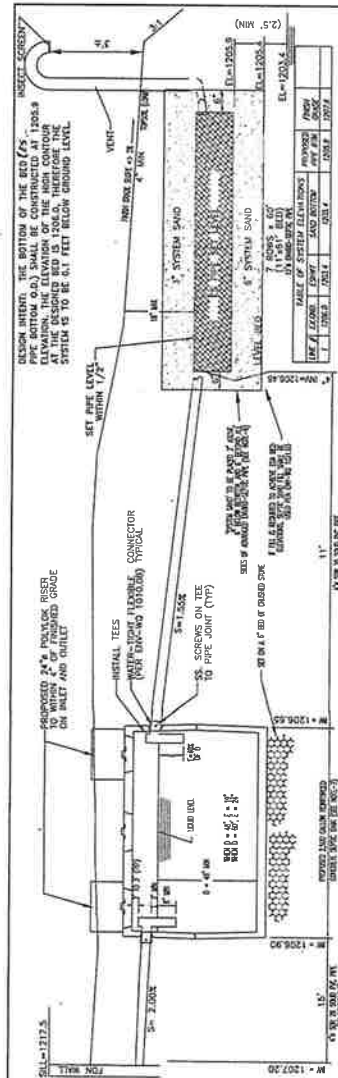
RECEIVED DATE: July 17, 2026

TYPE OF SYSTEM: ENVIROSEPTIC

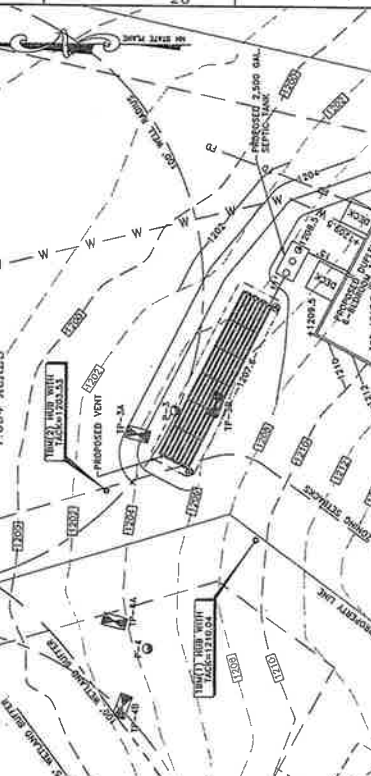
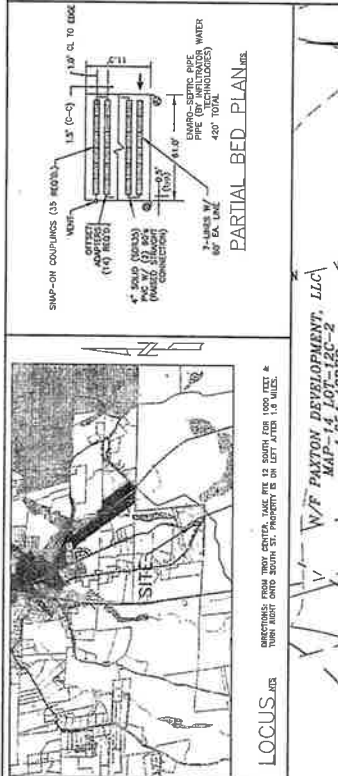
NUMBER OF BEDROOMS: 6

APARTMENT BEDROOMS: 0

APPROVED FLOW: 900 GPD



NO.	DESCRIPTION	DATE	BY
1	DESIGNED BY		JM
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3	DESIGNED BY		JM
4	DESIGNED BY		JM
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7	DESIGNED BY		JM
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NO.	DESCRIPTION	DATE	BY
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LOCUS

DESIGNED BY

DESIGNED BY

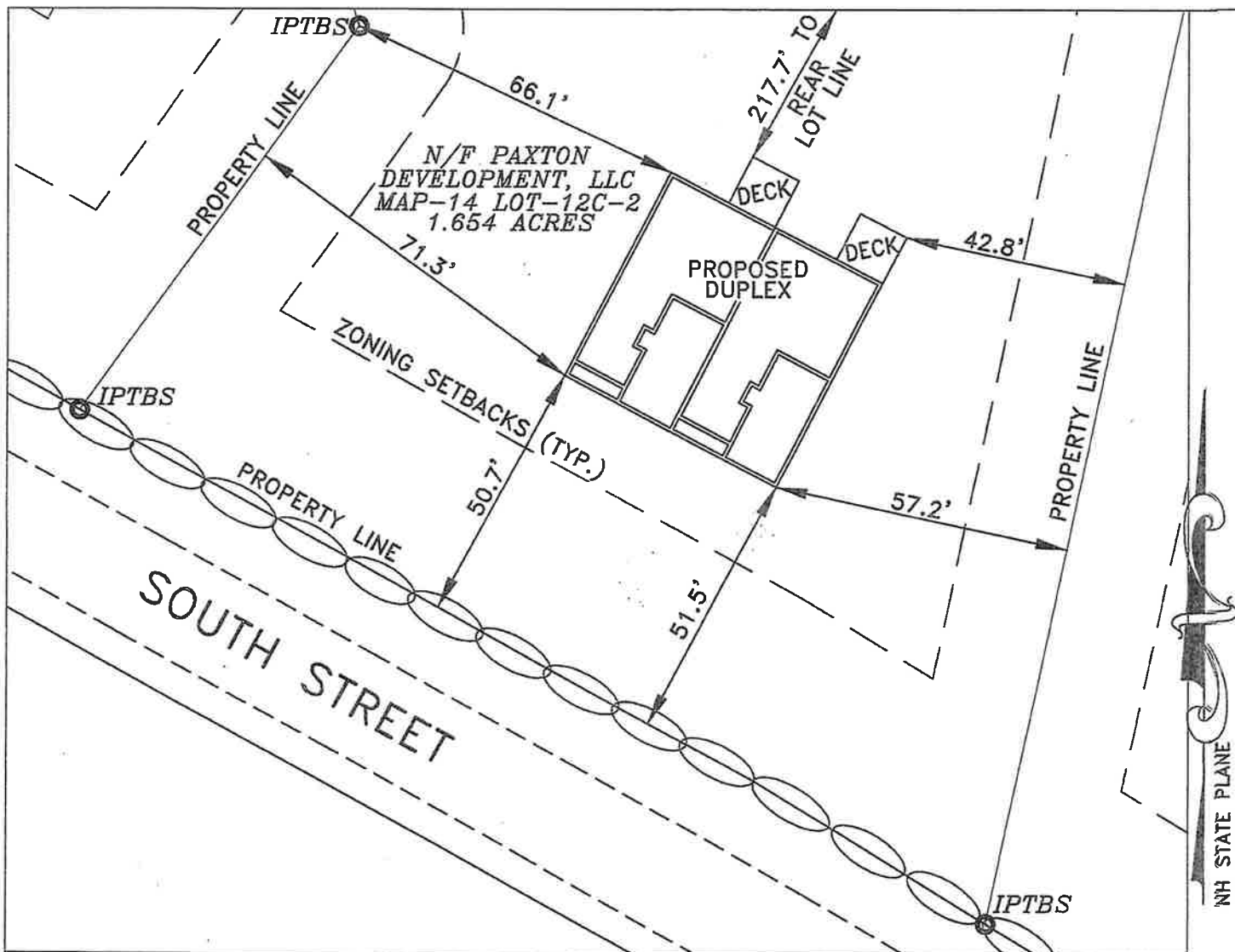
DESIGNED BY

LOCUS

DESIGNED BY

DESIGNED BY

DESIGNED BY



NOTES:

1. THE PURPOSE OF THIS PLAN IS TO DEPICT THE PROPOSED HOUSE LOCATION AND ITS RELATION TO THE LOT PROPERTY LINES

2. LOT LOCATED WITHIN THE *RURAL DISTRICT*

AREA: 2 ACRES MINIMUM

FRONTAGE: 200' MINIMUM

SETBACKS:

SIDE & REAR: 20'

FRONT: 35'

DIMENSIONAL REQUIREMENTS FOR CONSERVATION SUBDIVISIONS DETERMINED BY THE PLANNING BOARD

3. SEE REFERENCE CCRD #26033 AND #25030

4. STRUCTURE COMPLIES WITH ZONING



SCALE: 1"=30' ON ORIGINAL



PROPOSED PLOT PLAN
MAP-14 LOT-12C-2
SOUTH STREET
TROY, NH

PREPARED FOR:
PAXTON DEVELOPMENT, LLC
252 GODDARD ROAD
RINDGE, NH 03461

GRAZ Engineering, LLC

323 WEST LAKE ROAD, FITZWILLIAM, NH 03447

TEL.: (603) 585-6959

FAX: (603) 585-6960

DATE

7/17/26

JOB NUMBER

26048

SCALE

1" = 30'

SHEET 1 OF 1

4A-4

2026-20
\$0.00



Please post in a conspicuous location

TOWN OF TROY, NH

PERMIT TO PERFORM WORK

PURSUANT TO RSA 154

Joel Thompson

has been

Issued Permit No. 2026-20, to erect (), alter (X),

Install 9.68kw JA 440 solar panels on roof. 22 total panels. no battery.

no structural

at: 280 Richmond Road

Tax Map 28

Lot 7

Date

Authority Having Jurisdiction

Expiration Date

This document must be completed and returned to the Administrative Assistant with all applicable signatures upon completion of work.

Please see reverse side for required signoffs upon completion.

Please remember that buildings or portions of buildings shall not be occupied during construction, repair, or alteration without the approval of the appropriate authority.

INSPECTIONS

**APPROVAL
SIGNATURE**

DATE

HEALTH OFFICER

WATER/SEWER

DRIVEWAYS

FIRE CHIEF

CODE ENFORCEMENT
OFFICER

FINAL COMPLETION/OCCUPANCY PERMIT

2026-20
\$0.00



Please post in a conspicuous location

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at: 280 Richmond Road Tax Map 28 Lot 7

Date _____

Authority Having Jurisdiction _____

Expiration Date _____

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INSPECTIONS	APPROVAL SIGNATURE	DATE
HEALTH OFFICER	_____	_____
WATER/SEWER	_____	_____
DRIVEWAYS	_____	_____
FIRE CHIEF	_____	_____
CODE ENFORCEMENT OFFICER	_____	_____
FINAL COMPLETION/OCCUPANCY PERMIT	_____	_____



Town of Troy Permit Application
16 Central Square
Troy, NH. 03465
(603)242-7722

N Permit #

2026-20

Permit fee

\$0.00

Property Information-Where improvements are proposed

Street # 280 Street Name Richmond Rd Map/Lot 28/7
Zoning Rural Floodplain Wetlands Elevation Certification

Is this property a conforming lot?

(Please see Zoning Ordinance or contact the Selectmen's Office for clarification)

Owner Information-Who owns the property

Name: Joel Thompson Address: 280 Richmond Road,
City/State/Zip: Troy, New Hampshire 03465
Phone # (603) 831-1816 Email: grandpajoes15@gmail.com

Applicant Information-If not the owner of the property

Name: Tristan Souza with Venture Home Address: 19 Pomerleau St.
City/State/Zip: Biddeford, ME 04005
Phone # (207) 530-8471 Email: mepermitting@venturehome.com
Name of Contact for this Project: Tristan Souza with Venture Home Phone: 203-347-0332

Applicant Information-Describe proposed improvements

Permit Type: Building Electrical Plumbing Other Solar Installation
Building Use: Single family Multi-Family Commercial Other
Work Type: New Addition Renovation Move Other Sq. Ft. of work to be done:

Description of work:

Install 9.68kw JA 440 solar panels on roof. 22 total panels. No battery. No structural.

Plumbing and Electrical sub-contractors-Signature indicates responsibility for compliance with laws and codes

Electrical contractor-State License Number: MS60022174 **Exp. Date:** Jul 31, 2026

Name: Thomas Leighton with Venture Home Address: 19 Pomerleau St.
City/State/Zip: Biddeford, ME 04005
Phone # (207) 530-8471 Email: mepermitting@venturehome.com

License Holders Signature: Thomas Leighton Date: 7/22/2026

Plumbing Contractor- State License Number: **Exp. Date:**

Name: Address:

City/State/Zip:

Phone # Email:

License Holders Signature: Date:

Heating and Air Conditioning Contractor- State License Number:

Exp.Date: _____

Name: _____ Address: _____

City/State/Zip: _____

Phone # _____ Email: _____

License Holders Signature: _____ Date: _____

Design Professional-Responsible Architect or Engineer

Name: _____ Address: _____

City/State/Zip: _____

Phone # _____ Email: _____

Please note the following by checking the appropriate lines:

This property is to be hooked up with _____ Town water and/or _____ Town Sewer.

OR

This property will be hooked up to _____ private well and/or _____ septic.

☐ I I hereby certify that as the applicant for permit, I am the owner of this property __, or the owner's authorized agent ☒ (check one). I hereby declare that the statements and information contained in this application and submitted in conjunction with said application are true and accurate to the best of my knowledge. I understand that I am responsible to ensure all construction or other work will be completed in accord with all Federal, State and Local Laws, code and ordinances, including but not limited to the State Building Code NHRSA 155-A. **I understand that I am responsible to ensure that all inspections will be completed as required by the Town, and no structure will be used in violation of Federal, State, and Local Laws, code and ordinances.** The making of false statement on this form shall constitute a criminal offense.

Applicant printed name: Tristan Souza

Applicant signature: Tristan Souza Date: 7/22/2026

BUILDING PERMIT FEES & INFORMATION

1. Major Requirements for Permits:

- a. All Zoning Ordinance requirements must be met.
- b. Must have State permit for septic systems or file an application for a Town Sewer connection.
- c. Approved Driveway permit from Town
- d. Three (3) sets of building plans and plot plans showing location and setbacks of project.
- e. Must establish drinking water source. (Private well or Town water). A copy of the water source plan is required with application.
- f. Floodplain
- g. Elevation certification.
- h. American Disability Association compliance-if applicable.

2. Inspections: *It is the responsibility of the owner to insure inspections are completed on time. See attached Building Inspection Schedule and Criteria.*

Permit fees are as follows:

New Construction – Manufactured or Modular	\$0.15 per square foot
New Construction – Stick Built	\$0.20 per square foot
Outbuildings/Carports/Decks/Porches/Sheds (Does not include temporary = six months or less.)	Up to 200 square feet, no permit required. 200 square feet and over = \$35.00 plus \$0.35 per square foot thereafter, and permit required.
Fences	\$35.00
Pools	\$35.00
Barns/Garages/Additions	\$0.20 per square foot
New Commercial up to 2000 square feet	\$0.25 per square foot
New Commercial over 2000 square feet	\$0.35 per square foot
New Multifamily	\$0.35 per square foot
Solar/Wind or Generator	Residential \$0.00 Commercial \$45.00
Reinspections	\$50.00
Addition or deletion of a kitchen or bathroom (Does not apply to renovation of existing kitchens or bathrooms.)	\$50.00
Addition, deletion, or substantial modification of the foundation of an existing building (Does not include sill repairs, under pinning, repair, drainage, buttressing, walk-ways, stoops, bulkheads, driveways or patios.)	\$0.20 per square footage of a project area
Significant changes to previously submitted open permits (Significant for this purpose would be the addition or deletion of more than 200 square feet and addition or deletion of a kitchen or bathroom. Additionally, applicant is still responsible for difference in original calculated permit fee.)	\$50.00
Approved additional Dwelling Unit to be added to an existing property either by modification or addition	\$0.20 per square foot
Addition of an electrical meter (Does not include replacement or upgrade of existing meters or conversion from single phase to three phase service.)	\$50.00
Extension of any existing open permit for one-year. (All permits expire one year from date of issue. No permit may be extended more than twice for a total of three years on one application. If a permit remains open and the project remains incomplete at the expiration of permits all work must cease on the project until such time as a new permit is issued. If a permit has been extended twice and the project remains incomplete, a new application must be submitted to confirm that the project remains within the current regulations.)	\$50.00
Final Inspection Fee (Any permit that requires inspection that has not received a final inspection and sign off will be considered open and active until expiration. Individuals authorized to sign off on permits: Fire Chief, Building Inspector that is authorized or designated by the Select Board, or any two members of the Select Board.)	\$50.00

Electrical/Plumbing/Mechanical is included in all other permits.

THE FOLLOWING ITEMS DO NOT REQUIRE INSPECTION:

Meaning but not limited to replacement parts, fences less than six feet, like and kind replacement, painting, papering, tiling, reroofing, residing, carpet, toilets, faucets, and similar work. The following items do not require permit but must meet New Hampshire Emergency code: Reroofing residing, replacement doors and windows or emergency egress windows and doors, electrical meters(contact local electric company to clarify).

To contact inspectors, please call the following:

Fire Chief: Mark Huntoon 603-499-2051

Building Inspector: Mike Mastaler 603-499-1068 or BuildingCode@Troy.NH.Gov

The Town of Troy currently contracts with an individual to perform inspections on an as needed/wanted basis. The staff at Town Hall will contact the Building Inspector to schedule visits, as needed.

Permits for new construction of homes, additions, garages and barns require at least 4 inspections. These inspections are paid for by the building permit applicant at a rate of \$50 per hour for both the inspection itself and travel time, as well as mileage at the current IRS reimbursement rate (\$0.725 as of June 2026). ***Should your inspection fall on the same day as another in Town, the cost for travel will be split amongst the inspection appointments that day.***

The Four Inspections Required, At Minimum, Are As Follows:

- 1) Ground, drainage and foundation inspection
- 2) Rough framing, rough electrical and rough plumbing
- 3) Insulation inspection
- 4) A final inspection for the Certificate of Occupancy

****Failure to adhere to these inspection requirements or the direction of the Building Inspector, Code Enforcement Officer, or Fire Chief could delay the issuance of a Certificate of Occupancy.****

To inquire about building permits or building inspections,
please contact the Selectmen's Office at 603-242-7722 Ext. 1
or you can e-mail the Building Inspector directly: BuildingCode@Troy.NH.Gov

TROY SELECT BOARD:

Jody McDermott, Chair

Richard H. Thackston, III, Selectman

TJ Chasse, Selectman



Town of Troy

16 Central Square - PO Box 249 - Troy, New Hampshire 03465

Congratulations on beginning your new project!

You have completed the first step; you have successfully obtained a building permit.

There are some important things we want to make sure you know about the Permit and the process in the Town of Troy.

1. Your permit expires one year from date of issuance. Prior to the expiration of your permit, you must take one of three actions to close out your permit or your file will reflect an open permit with incomplete work which may raise issues for you in a future sale or re-finance. These problems are not the responsibility of the Town of Troy.
 - a. Option One: You have completed your work as permitted within the one-year time frame and you call the town for a final inspection which the Town issues within a week to ten days.
 - b. Option Two: You do not complete your work within the one-year time frame, and you obtain an extension to your permit for an additional year.
 - c. Option Three: You complete your work; you do not call for a final inspection the permit remains open and expired. You would be subject to any future rules as applicable if at a future time you attempt to re-permit your project.
2. Your permit entitles you to do work but does not cover the cost of any inspections. The Town of Troy expects you to complete work in a competent and skillful manner or hire professional who are licensed in relevant trades to do such work. If you are not competent or your contractors are not licensed or competent it is not the responsibility of the Town of Troy.
 - a. If you have a loan for your project that requires interim inspections, you will need to arrange and pay for these inspections. The Town of Troy does not pay for interim inspections.
 - b. If you are not sure of how to complete your work and need to consult with a building inspector or engineering firm, you must do so at your cost. The Town of Troy does not provide or pay for any such services.
 - c. The Town of Troy does not do septic system inspections. Septic installations are between you, your designer, your installer, and the State of NH. Troy does not allow new installations of Privies.
3. The Town of Troy specifically does not require or pay for the following inspections: Footing Inspections, Drainage Inspections, Dry Bed Septic Field Inspections, Backfill Inspections, Grading Inspections, Electrical Inspections, Plumbing Inspections, Insulation Inspections, Foundation Inspections, Close-In Inspections, Sewer Line Inspections. Heating System installations will be inspected by the Fire Chief or designee at the time of Final Inspection/Issuance of Certificate of Occupancy.
4. Final Inspections/Issuance of Certificate of Occupancy must be scheduled a week to ten days in advance.



State of Maine
DEPARTMENT OF PROFESSIONAL AND FINANCIAL REGULATION
OFFICE OF PROFESSIONAL AND OCCUPATIONAL REGULATION
ELECTRICIANS' EXAMINING BOARD

License Number MS60022174

Be it known that
THOMAS LEIGHTON
has qualified as required by Title 32 MRS Chapter 17 and is licensed as:
MASTER ELECTRICIAN

ISSUE DATE
July 2, 2024

Anne L. Head
Commissioner

EXPIRATION DATE
July 31, 2026

 Detach



STATE OF MAINE
DEPARTMENT OF PROFESSIONAL AND FINANCIAL REGULATION
OFFICE OF PROFESSIONAL AND OCCUPATIONAL REGULATION
ELECTRICIANS' EXAMINING BOARD

License Number MS60022174
THOMAS LEIGHTON
MASTER ELECTRICIAN

ISSUED 07/02/2024

EXPIRES 07/31/2026

STATE OF MAINE

DEPARTMENT OF PROFESSIONAL AND FINANCIAL REGULATION
35 State House Station
Augusta, Maine 04333-0035
(207) 624-8603

Anne L. Head
Commissioner

PLAN SET LEGENDS AND ABBREVIATION

(E) EXISTING

(N) NEW

A AMPERE

AC ALTERNATING CURRENT

DC DIRECT CURRENT

ESS ENERGY STORAGE SYSTEM

EXT EXTERIOR

INT INTERIOR

MPH MILES PER HOUR

MSP MAIN SERVICE PANEL

NTS NOT TO SCALE

OC ON CENTER

PSF POUNDS PER SQUARE FOOT

PV PHOTOVOLT/TAC

SQ FT SQUARE FOOT

V VOLT

W WATT

AC AC DISCONNECT

BLU BACKUP INTERFACE

BAT BATTERY

BLP BACKUP LOAD PANEL

CB COMBINER BOX

DC DC DISCONNECT

GW GATEWAY

INV INVERTER

PM PRODUCTION METER

MSP MAIN SERVICE PANEL

RSD RAPID SHUTDOWN DEVICE

SC SYSTEM CONTROLLER

SD SERVICE DISCONNECT

SUB SUB PANEL

TS TRANSFER SWITCH

UM UTILITY METER

EXT EXTERIOR EQUIPMENT

INT INTERIOR EQUIPMENT

DRV DRIVENWAY

ELECT ELECTRICAL EQUIPMENT

FIRE FIRE SETBACK

WORK WORKING CLEARANCE

CON CONDUIT RUN

LOAD LOAD BEARING WALL

PRO PROPERTY LINE

ROOF ROOF FRAMING

ROOF ROOF OBSTRUCTIONS

MOD MODULE

RAIL RAIL

RAIL RAIL SPLICE

ATT ATTACHMENT

SCOPE OF WORK

SYSTEM SIZE: 9.68 KW DC, 8.35 KW AC

MODULE: 22 JA Solar Technology JAM5041-440MB

INVERTER: 22 Enphase Energy Inc. IQBH72-M-DOM-US (240V)

RAIL: 232-10095-USA SNAPNRACK, UR-46 RAIL 172IN. MILL

ATTACHMENT: 242-10057, SNAPNRACK, UR UL TRAF600T/DECK

GOVERNING CODES

NATIONAL ELECTRICAL CODE 2023

INTERNATIONAL RESIDENTIAL CODE 2021

INTERNATIONAL BUILDING CODE 2021

NFPA 1 2024

GENERAL NOTES

- SOLAR PHOTOVOLT/TAC SYSTEM TO BE INSTALLED ON RESIDENTIAL STRUCTURE.
- OBTAIN ALL NECESSARY PERMITS AND APPROVALS FROM LOCAL AUTHORITIES AND UTILITY COMPANIES BEFORE COMMENCING INSTALLATION.
- THIS SYSTEM WILL NOT BE INTERCONNECTED UNTIL APPROVAL FROM THE LOCAL JURISDICTION AND UTILITY IS OBTAINED.
- THE SOLAR PHOTOVOLT/TAC INSTALLATION SHALL NOT OBSTRUCT ANY PLUMBING, MECHANICAL OR BUILDING ROOF VENTS.
- A LADDER SHALL BE IN PLACE FOR INSPECTION IN COMPLIANCE WITH OSHA REGULATIONS.
- PROPER ACCESS AND WORKING CLEARANCE WILL BE PROVIDED AS PER SECTION 110.26 NEC.
- ALL COMPONENTS AND INSTALLATIONS SHALL MEET THE REQUIREMENTS SET FORTH BY RELEVANT INDUSTRY STANDARDS, INCLUDING IEEE AND UL. CUSTOM MADE EQUIPMENT SHALL HAVE COMPLETE TEST DATA SUBMITTED BY THE MANUFACTURER ATTESTING TO ITS SAFETY.
- MOUNTING STRUCTURES SHALL BE DESIGNED AND INSTALLED TO WITHSTAND WIND AND SNOW LOADS AS REQUIRED BY LOCAL BUILDING CODES.
- ALL SYSTEM COMPONENTS, INCLUDING PANELS, INVERTERS, DISCONNECTS, AND CONDUITS, SHALL BE CLEARLY LABELED AND MARKED FOR IDENTIFICATION AND SAFETY.
- ALL WIRING, CONDUIT, AND CONNECTORS SHALL BE SIZED AND INSTALLED PER NEC REQUIREMENTS TO ENSURE PROPER CURRENT CARRYING CAPACITY AND PROTECTION.
- CODE VIOLATIONS PRESENT IN INTERCONNECTION PANEL WILL BE CORRECTED UPON INSTALLATION.
- RAPID SHUTDOWN COMMENCES UPON LOSS OF UTILITY POWER.
- PROPERLY SIZED DISCONNECT SWITCHES AND OVERCURRENT PROTECTION DEVICES SHALL BE INSTALLED AT APPROPRIATE LOCATIONS TO ENSURE SAFE MAINTENANCE AND OPERATION.
- ALL METALLIC EQUIPMENT SHALL BE GROUNDED.

SITE INFORMATION

AHL: NH - TROY TOWN

ELECTRIC UTILITY: PUBLIC SERVICE CO OF NH (PSNH)

FEED(SOURCE)

WIND SPEED: 112 MPH

GROUND SNOW LOAD: 75 PSF

AMBIENT TEMPERATURE: 31°C

EXTREME MINIMUM TEMPERATURE: -24°C

NO. OF FLOORS: 2

OCCUPANCY TYPE: R3

CONSTRUCTION TYPE: V-B

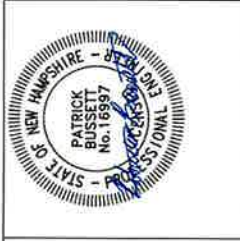
SHEET INDEX

- | | |
|------|-----------------------------------|
| PV01 | COVER SHEET |
| PV02 | SITE PLAN |
| PV03 | ROOF LAYOUT |
| PV04 | ATTACHMENT DETAIL |
| PV05 | STRING LAYOUT |
| PV06 | LINE DIAGRAM |
| PV07 | ELECTRICAL CALCULATIONS AND NOTES |
| PV08 | LABELS AND PLACARD |

VICINITY MAP (SCALE: NTS)



AERIAL VIEW (SCALE: NTS)



venture solar

Venture Solar
42 West St, Brooklyn, NY 11222
www.venturesolar.com
contact@venturesolar.com
(888) 522-9161

CONTRACTOR SIGNATURE

REVISION

REV DESCRIPTION DATE

CUSTOMER NAME:

JOEL THOMPSON

ADDRESS:

280 RICHMOND RD, TROY, NH,
03465

COORDINATES:

42.813033, -72.203889

APN:

#TROYM028B0007L0000

SnapNrack™
Solar Mounting Solutions

SHEET NAME

COVER SHEET

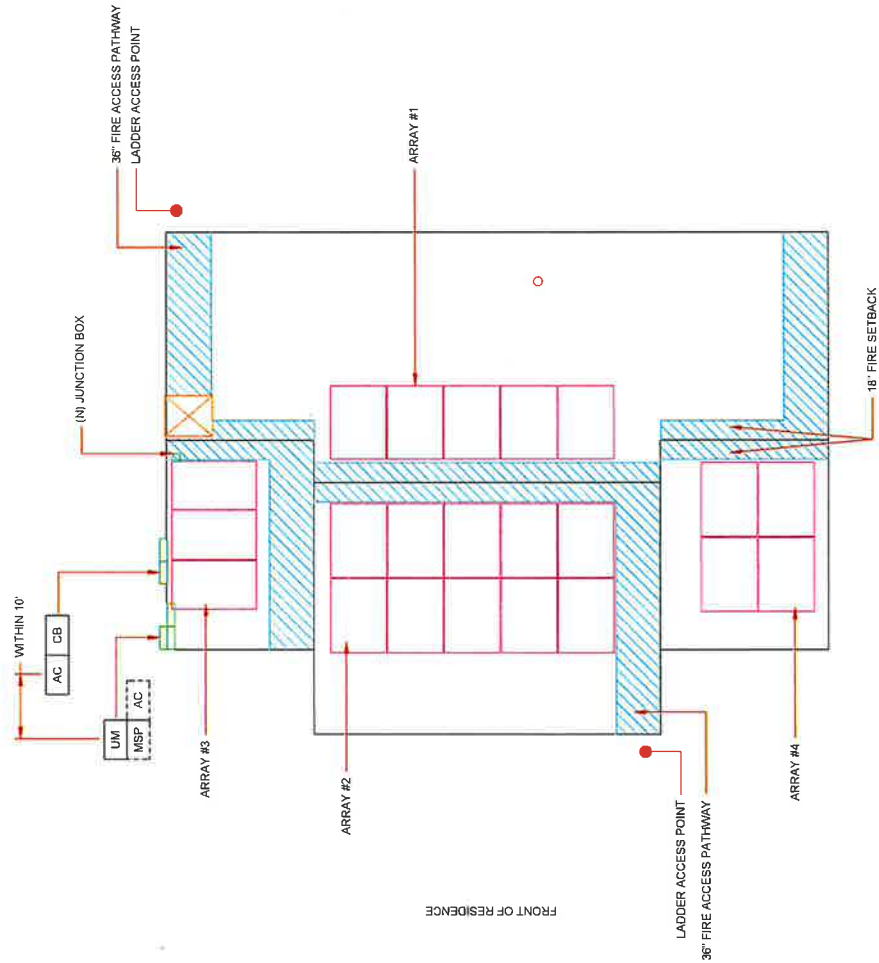
SHEET NUMBER

PV01

DESIGN DATE 18-Jul-26

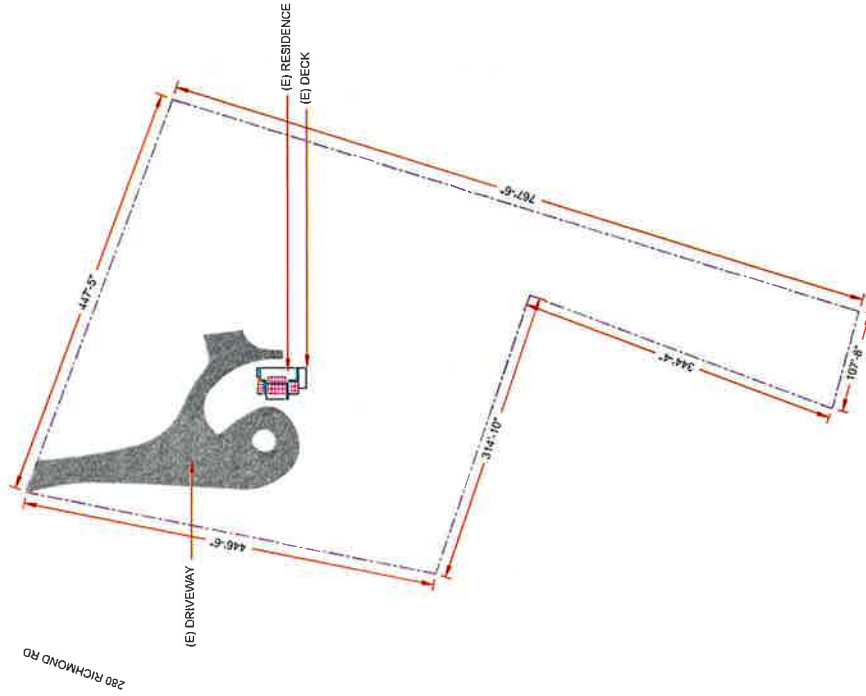


CLOSE UP VIEW - SCALE: 1/8" = 1'-0"



SITE PLAN - SCALE: 1/128" = 1'-0"

ARRAY DETAILS					
ARRAY	MODULES	ARRAY HEIGHT	ROOF TILT	AZIMUTH	PV AREA COVERAGE
1	5	2-STORY	30°	74°	105.10 SQ. FT.
2	10	1-STORY	30°	254°	210.19 SQ. FT.
3	3	1-STORY	30°	254°	63.06 SQ. FT.
4	4	1-STORY	30°	254°	84.08 SQ. FT.



venture solar

Venture Solar
42 West St, Brooklyn, NY 11222
www.venturesolar.com
contact@venturesolar.com
(888) 522-9161

CONTRACTOR SIGNATURE

REVISION	REV	DESCRIPTION	DATE

CUSTOMER NAME:

JOEL THOMPSON

ADDRESS:

280 RICHMOND RD, TROY, NH,
03465

COORDINATES:

42.813033, -72.203889

APN:

#TROYM028B0007L0000

SnapNrack™
Solar Mounting Solutions

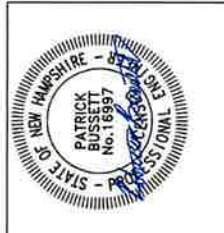
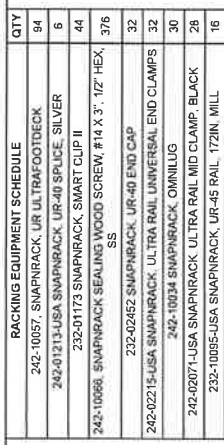
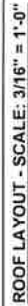
SHEET NAME

SITE PLAN

SHEET NUMBER

PV02

DESIGN DATE: 18-JUL-26



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CONTRACTOR SIGNATURE

[illegible]

CUSTOMER NAME:
JOEL THOMPSON

ADDRESS:
180 RICHMOND RD, TROY, NH,
3465

COORDINATES:
2.813033, -72.203889

PN: ETROYM028B0007L0000

SnapNrack™
Solar Mounting Solutions

SHEET NAME
ROOF LAYOUT
SHEET NUMBER
PV03
DESIGN DATE '18-Jul-26

SOLAR ARRAY AND LOADING CALCULATION		MAIN HOUSE
# OF MODULE	22	
PV AREA	21.02 SQ FT	
TOTAL ARRAY AREA	482.42 SQ FT	
TOTAL ROOF AREA	1747.05 SQ FT	
PV AREA COVERAGE	29.38%	
MODULE WEIGHT	47.40 LBS	
TOTAL ARRAY WEIGHT	1042.80 LBS	
# OF ATTACHMENT	94	
POINT LOAD	0.50 LBS	
DISTRIBUTED LOAD	2.26 PSF	

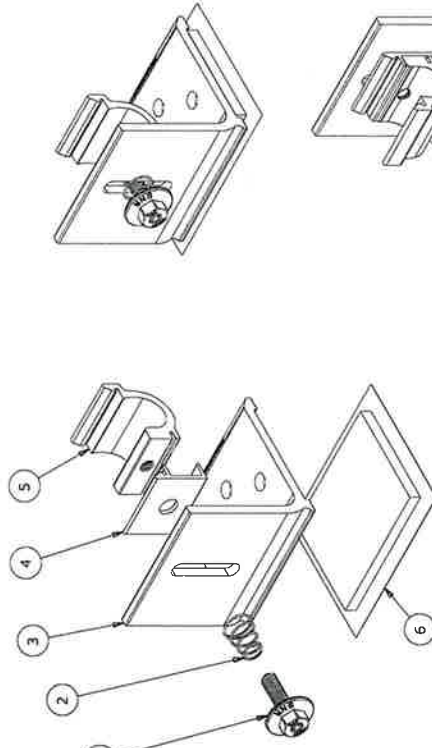
ARRAY DETAILS								
ARRAY	MODULES	ARRAY HEIGHT	ROOF TILT	AZIMUTH	ROOF TYPE	ROOF FRAMING	RAFTER SIZE	RAFTER SPACING
1	5	2-STORY	30°	74°	COMP SHINGLE	PRE-FABRICATED TRUSSES	2"x6"	232-1" UR
2	10	1-STORY	30°	254°	COMP SHINGLE	PRE-FABRICATED TRUSSES	2"x6"	232-1" UR
3	3	1-STORY	30°	254°	COMP SHINGLE	PRE-FABRICATED TRUSSES	2"x6"	232-1" UR
4	4	1-STORY	30°	254°	COMP SHINGLE	PRE-FABRICATED TRUSSES	2"x6"	232-1" UR

EMPLATE V2026.01.01 ANSI FULL BLEED B (17.00 X 11.00 INCHES)

NOTE: #14 WOOD SCREWS TO BE EMBEDDED A MINIMUM OF 1-1/4" INTO FRAMING OR FULLY PENETRATING ROOF SHEATHING UNTIL NOTED OTHERWISE.

DESCRIPTION:	SNAPNRACK, TDS, ULTRAFOOT DECK	
PART NUMBER(S):	242-10057	
UNITS: IN, LB, DEG [MM, KG, DEG]	SHEET: 1:2	
SnapNrack®		
DOC NUMBER:	SNR-DC-01437	
DRAWN BY:	M.AFFENTRANGER	
REV:	DATE:	
B	2/6/2025	
SNR SOLAR LLC 775 PERDUE AVE SUITE 200 SALEM, NH 03078 CONTACT@SNR-SOLAR.COM		

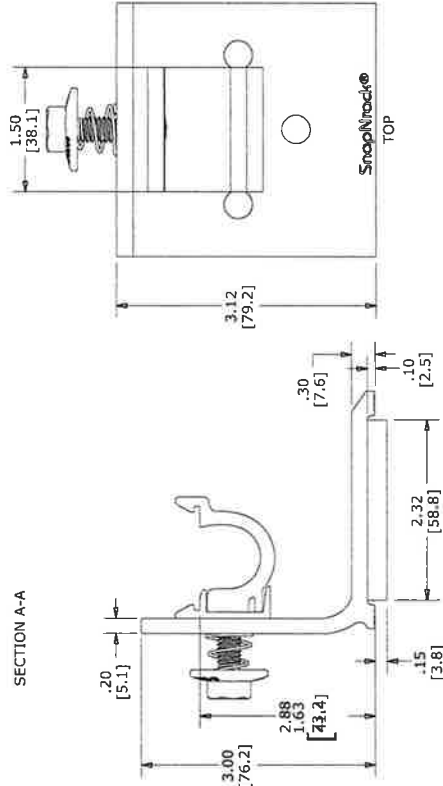
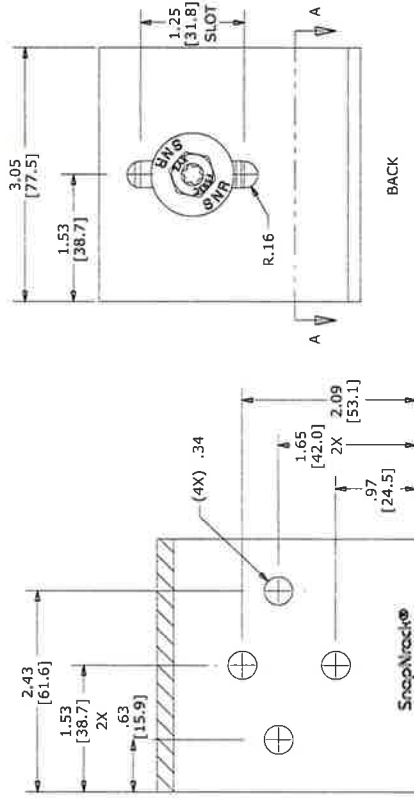
DESIGN REACTIONS, ALLOWABLE				
FASTENER	SUBSTRATE	EMBEDMENT (IN)	DOWNFORCE (LB)	LATERAL (LB)
(2) #14 WOOD SCREW	WOOD FRAMING	1-1/4" EACH	1325	702
(4) #14 WOOD SCREW	WOOD DECKING, 1/2" TRADE THICKNESS	FULL	285	180
			350	245



ITEM QTY	DESCRIPTION
1	BOLT, WIDE FLANGE, RECESSED, 5-16IN-18 X 1IN, SS
2	SNAPNRACK, ULTRA RAIL MOUNT SPRING, SS
3	SNAPNRACK, ULTRAFOOT BASE, DECK, BLACK
4	SNAPNRACK, UR FLIP CLAMP, THRU, SILVER
5	SNAPNRACK, UR FLIP CLAMP, TAP, BLACK
6	SNAPNRACK, BUTYL PAD, 2.00IN X 1.44IN X .25IN

MATERIALS: 6000 SERIES ALUMINUM & 300 SERIES STAINLESS STEEL
TORQUE SPECIFICATION: 16 FT-LBS FT-LBS
CERTIFICATION: UL 2703, FILE E359313
WEIGHT (LBS): 0.551

DESCRIPTION:	SNAPNRACK, TDS, ULTRAFOOT DECK	
PART NUMBER(S):	242-10057	
UNITS: IN, LB, DEG [MM, KG, DEG]	SHEET: 2:2	
SnapNrack®		
DOC NUMBER:	SNR-DC-01437	
DRAWN BY:	M.AFFENTRANGER	
REV:	DATE:	
B	2/6/2025	
SNR SOLAR LLC 775 PERDUE AVE SUITE 200 SALEM, NH 03078 CONTACT@SNR-SOLAR.COM		



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CONTRACTOR SIGNATURE

REVISION	DESCRIPTION	DATE
REV		

CUSTOMER NAME:
JOEL THOMPSON

ADDRESS:
280 RICHMOND RD, TROY, NH,
03465

COORDINATES:
42.813033, -72.203889

APN:
#TROYM028B0007L0000

SnapNrack®
Solar Mounting Solutions

SHEET NAME

ATTACHMENT DETAIL

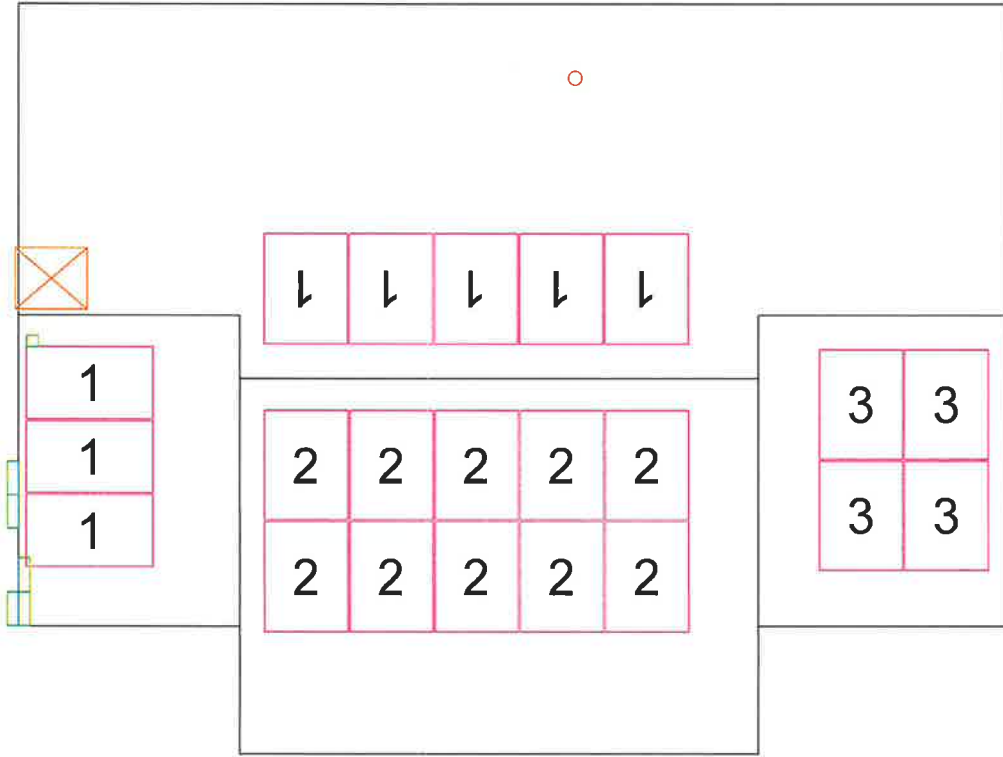
SHEET NUMBER

PV04

DESIGN DATE: 18-Jul-25



STRING LAYOUT - SCALE: 3/16" = 1'-0"



- BRANCH 1:
8 MODULE
8 MICROINVERTER
- BRANCH 2:
10 MODULE
10 MICROINVERTER
- BRANCH 3:
4 MODULES
4 MICROINVERTER

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CONTRACTOR SIGNATURE

REVISION	
REV	DESCRIPTION

DATE

CUSTOMER NAME:
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03465

COORDINATES:

42.813033, -72.203889

APN:

#TROYM02850007L0000

SnapNrack™
Solar Mounting Solutions

SHEET NAME

STRING LAYOUT

SHEET NUMBER

PV05

DESIGN DATE 18-Jul-26

WIRE TAG

CONDUIT

CONDUCTOR

NEUTRAL

GROUND

AMBIENT TEMPERATURE

TEMPERATURE RATING OF WIRE

WIRE AMPACITY

TEMPERATURE DERATE FACTOR

CONDUCTOR PER RACEWAY DERATE FACTOR

DERATED WIRE AMPACITY

OCPD

CONDUIT FILL

1

FREE AIR

(2) 12 AWG IQ CABLE, THWN2

NONE

(1) 6 AWG BARE COPPER

31°C

90°C - COPPER

30 A

0.98

1

28.80 A

20 A

FREE AIR

2

1" EMT

(8) 10 AWG THWN-2

NONE

(1) 10 AWG THWN-2

31°C

90°C - COPPER

40 A

0.96

0.8

30.72 A

20 A

17.09%

3

1" EMT

(2) 6 AWG THWN-2

(1) 6 AWG THWN-2

(1) 8 AWG THWN-2

31°C

90°C - COPPER

75 A

0.96

1

72.00 A

60 A

21.84%

EQUIPMENT

QTY

OUTPUT CURRENT

TOTAL OUTPUT CURRENT

BACKFEED

Enphase Energy Inc.
IQBHC-72-M-DOM-US [240V]

22

1.39 A

TOTAL: 34.78 A

43.45 A

MAIN SERVICE PANEL ALLOWABLE BACKFEED

MAIN BREAKER RATING

PANEL RATING

BUS RATING

MAIN PANEL ALLOWABLE BACKFEED = MAIN BREAKER RATING

200 A

200 A

200 A

200A ± 43.45A BACKFEED

BRANCH CALCULATIONS

Enphase Energy Inc.
IQBHC-72-M-DOM-US [240V]

NO. OF MICROINVERTER

NOMINAL STRING VOLTAGE

ARRAY CURRENT

DC SYSTEM SIZE

AC SYSTEM SIZE

DC/AC RATIO

1

8

240 V

12.64 A

9680 W

8360 W

1.16

2

4

240 V

6.32 A

6.32 A

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COORDINATES:

42.813033, -72.203889

APN:

#TROYM028B000710000

SnapNrack™

Solar Mounting Solutions

SHEET NAME

ELECTRICAL CALCULATION AND NOTES

SHEET NUMBER

PV07

DESIGN DATE 18-JUL-26

ELECTRICAL NOTES

PHOTOVOLTATIC MODULES AND INVERTERS USED IN THE SYSTEM SHALL BE LISTED AND LABELED FOR THEIR INTENDED USE AS PER NEC 690.4 AND 690.5, ENSURING COMPLIANCE WITH INDUSTRY STANDARDS AND SAFETY REGULATIONS.

ALL EQUIPMENT SHALL MEET THE MINIMUM CLEARANCES AS REQUIRED BY NEC 110.26

JUNCTION BOXES AND PULL BOXES ARE PERMITTED TO INSTALL UNDER PV MODULES PER NEC 690.34

ALL COMPONENTS ARE LISTED FOR THEIR PURPOSE AND RATED FOR OUTDOOR USAGE WHEN APPROPRIATE

WIRING METHODS SHALL FOLLOW NEC GUIDELINES, INCLUDING PROPER RACEWAY SELECTION, CONDUIT SIZING, AND SEPARATION FROM OTHER CIRCUITS TO PREVENT DAMAGE AND MAINTAIN CIRCUIT INTEGRITY. CONDUIT AND WIRE SPECIFICATIONS ARE BASED ON MINIMUM CODE REQUIREMENTS AND ARE NOT MEANT TO LIMIT UP-SIZING

VOLTAGE DROP IS LIMITED TO 2%

DC WIRING LIMITED TO MODULE FOOTPRINT. MICROINVERTER WIRING SYSTEM SHALL BE LOCATED AND SECURED UNDER THE ARRAY WITH SUITABLE WIRING CLIPS

GROUNDING AND BONDING OF PV SYSTEMS SHALL COMPLY WITH NEC REQUIREMENTS, THIS INCLUDES GROUNDING

OF METAL COMPONENTS, GROUNDING ELECTRODES, AND PROPER BONDING TO MINIMIZE ELECTRICAL HAZARDS.

DISCONNECTING SWITCHES SHALL BE WIRED SUCH THAT WHEN THE SWITCH IS OPENED THE CONDUCTORS REMAINING ENERGIZED ARE CONNECTED TO THE TERMINALS MARKED "LINE SIDE" (TYPICALLY UPPER TERMINALS)

EMERGENCY DISCONNECTS SHALL BE INSTALLED IN READILY ACCESSIBLE LOCATIONS, ENSURING SAFE AND EFFICIENT SHUTDOWN IN CASE OF EMERGENCIES

RAPID SHUTDOWN REQUIREMENTS SHALL BE MET ENSURING THAT THE PV SYSTEM CAN BE DE-ENERGIZED TO A SPECIFIED VOLTAGE WITHIN A CERTAIN TIME FRAME, FACILITATING FIREFIGHTER SAFETY DURING EMERGENCIES

PROPERLY SIZED OVERCURRENT PROTECTION DEVICES SHALL BE INSTALLED TO PROTECT CONDUCTORS AND COMPONENTS. COORDINATION WITH MODULE SHORT-CIRCUIT CURRENTS AND OVERCURRENT DEVICE RATINGS SHALL BE ENSURED.

SOURCE AND OUTPUT CIRCUITS SHALL BE APPROPRIATELY SIZED AND PROTECTED WITH PROPER INSULATION AND LABELING TO PREVENT ANY RISK OF ELECTRICAL HAZARDS

LOAD-SIDE INTERCONNECTION SHALL BE IN ACCORDANCE WITH NEC 705.12(B)

SUPPLY SIDE TAP INTERCONNECTION ACCORDING TO NEC 705.12(A) WITH SERVICE ENTRANCE CONDUCTORS IN ACCORDANCE WITH NEC 230.42

TEMPLATE V2026 01 01

ANSI FULL BLEED B (17.00" X 11.00" INCHES)

LABELING NOTES:

1. ENSURE LABELS ALIGN WITH COMMON CONFIGURATIONS, ALLOWING ELECTRICIANS TO ADJUST PER NEC AND LOCAL CODES.
2. ADHERE TO LABELING REQUIREMENTS BASED ON 2023 NEC, OSHA STANDARD 1910.145, AND ANSI Z535, FOLLOWING AHJ SPECIFICATIONS.
3. MATERIALS MUST MEET AHJ REQUIREMENTS FOR DURABILITY IN THE GIVEN ENVIRONMENT (NEC 110.21(B)(3)).
4. LABELS SHOULD HAVE A MINIMUM 3/8" LETTER HEIGHT, WHITE ON RED BACKGROUND, REFLECTIVE, AND PERMANENTLY AFFIXED (NEC 690.31(G)).
5. EFFECTIVELY COMMUNICATE HAZARDS THROUGH WORDS, COLORS, AND SYMBOLS ON LABELS, COMPLYING WITH NEC ARTICLE 110.21(B).
6. PERMANENTLY AFFIX LABELS WITHOUT COVERING EXISTING MANUFACTURER LABELS.

WARNING
ELECTRICAL SHOCK HAZARD
TERMINALS ON LINE AND LOAD SIDES
MAY BE ENERGIZED IN THE OPEN
POSITION

LABEL LOCATION:
INVERTER(S), AC/DC DISCONNECT(S),
AC COMBINER PANEL (IF APPLICABLE),
PER CODE(S) NEC 2023: 690.13(B),
705.20(D), 705.15(C)

WARNING
POWER SOURCE OUTPUT CONNECTION
DO NOT RELOCATE THIS
OVERCURRENT DEVICE

LABEL LOCATION:
ADJACENT TO PV BREAKER AND ESS
OCPO (IF APPLICABLE),
PER CODE(S) NEC 2023: 705.12(B)(2)

WARNING
THIS EQUIPMENT FED BY
MULTIPLE SOURCES. TOTAL
RATING OF ALL OVERCURRENT
DEVICES EXCLUDING MAIN
SUPPLY OVERCURRENT DEVICE
SHALL NOT EXCEED AMPACITY
OF BUSBAR

LABEL LOCATION:
PV LOAD CENTER (IF APPLICABLE) AND
ANY PANEL THAT UTILIZES "THE SUM
OF BREAKERS RULE," MAIN SERVICE
PANEL
PER CODE(S) NEC 2023: 705.12 (B)(3)

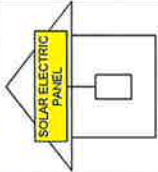
WARNING
DUAL POWER SUPPLY
SOURCES: UTILITY GRID AND PV
SOLAR ELECTRIC SYSTEM

LABEL LOCATION:
UTILITY SERVICE METER AND MAIN
SERVICE PANEL
PER CODE(S) NEC 2023: 705.30(C)

**SOLAR PV SYSTEM
EQUIPPED WITH RAPID
SHUTDOWN**

TURN RAPID
SHUTDOWN SWITCH TO
THE "OFF" POSITION TO
SHUT DOWN PV
SYSTEM AND REDUCE
SHOCK HAZARD IN
ARRAY

LABEL LOCATION:
ON OR NO MORE THAN 1 M (3 FT)
FROM THE SERVICE
DISCONNECTING MEANS TO WHICH
THE PV SYSTEMS ARE CONNECTED.
PER CODE(S) NEC 2023: 690.12(D)



**RAPID SHUTDOWN
SWITCH FOR SOLAR
PV SYSTEM**

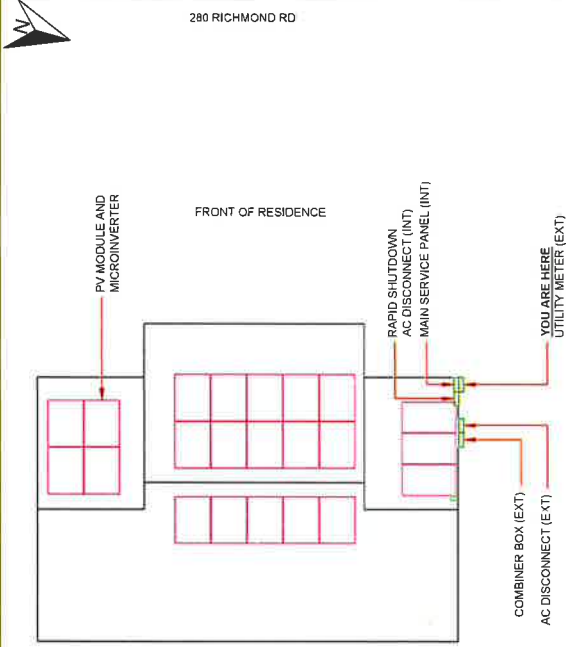
LABEL LOCATION:
UTILITY SERVICE ENTRANCE METER,
INVERTER/DC DISCONNECT (IF
APPLICABLE), INSTALLED WITHIN 3'
OF RAPID SHUT DOWN SWITCH
PER CODE(S) NEC 2023: 690.12(D)(2)

PV SYSTEM DISCONNECT

MAXIMUM AC OPERATING CURRENT **34.76** AMPS
NOMINAL AC OPERATING VOLTAGE **240** VAC

LABEL LOCATION:
UTILITY SERVICE ENTRANCE METER,
INVERTER/DC DISCONNECT (IF
APPLICABLE), INSTALLED WITHIN 3' OF
RAPID SHUT DOWN SWITCH
PER CODE(S) NEC 2023: 690.54

CAUTION
MULTIPLE SOURCES OF POWER



280 RICHMOND RD

PLAQUE SHALL BE ATTACHED TO THE SERVICE EQUIPMENT WITH POP-RIEVETS OR SCREWS.

venture solar

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CONTRACTOR SIGNATURE

REVISION

REV	DESCRIPTION	DATE

CUSTOMER NAME:

JOEL THOMPSON

ADDRESS:

280 RICHMOND RD, TROY, NH,
03465

COORDINATES:

42.813033, -72.203889

APN:

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SnapNrack™
Solar Mounting Solutions

SHEET NAME

LABELS AND PLACARD

SHEET NUMBER

PV08

DESIGN DATE: 18-JUL-26

Harvest the Sunshine

445W

JA SOLAR



JAM54D41 MB

Black Module
n-type Double Glass Bifacial Modules

Premium Cells



26%

Up to
Cell Conversion Efficiency

MBB Half-Cell Technology

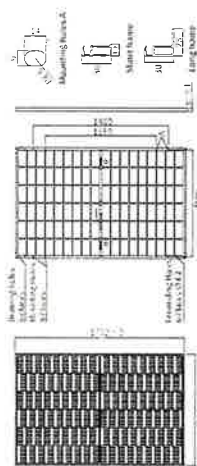
Premium Modules

- Higher power generation Better LCOE
- Better Temperature Coefficient
- Better low irradiance response



Comprehensive Certificates

- IEC 61215, IEC 61730, UL 61730, UL 6174
- ISO 9001, ISO 14001, ISO 45001
- ISO 16001, 2015 Environmental management system
- ISO 14001, 2015 Environmental health and safety management system
- IEC 62041, 2019 Interim Edition, IEC 62041-1 Quality Management System for PV module manufacturing



MECHANICAL PARAMETERS	
Cell	Monocrystalline
Weight	21.5kg
Dimensions	1727*2mm ± 1.34*2mm ± 20*2mm
Cable Cross Section Size	4mm (EC), 17.8mm (UL)
No. of Cells	180 ± 1%
Junction Box	IP65, 3 Modules
Connector	QC 4 10-55/16 ± 0.025
Cable Length	Positive: 1000mm ± 10mm (c)
Including Connector	Landings: 1100mm ± 1100mm (c)
Front Glass/Back Glass	1.6mm/1.6mm
Packaging Configuration	Stack/Pallet, 50pcs/40kg Container

Remark: customized frame color and cable length available upon request

ELECTRICAL PARAMETERS AT STC

TYPE	JAM54D41	JAM54D41	JAM54D41	JAM54D41	JAM54D41	JAM54D41
	-420/MB	-425/MB	-430/MB	-435/MB	-440/MB	-445/MB
Rated Max Power (P _{max}) [W]	420	425	430	435	440	445
Open Circuit Voltage (V _{oc}) [V]	38.74	38.74	38.74	38.74	38.74	38.74
Maximum Power Voltage (V _{mp}) [V]	32.38	32.38	32.38	32.38	32.38	32.38
Short Circuit Current (I _{sc}) [A]	12.55	12.55	12.55	12.55	12.55	12.55
Maximum Power Current (I _{mp}) [A]	12.94	12.94	12.94	12.94	12.94	12.94
Module Efficiency [%]	21.5	21.6	21.7	21.8	21.9	22.0
Power Factor [%]	0 ~ 3%					
Temperature Coefficient of P _{max} [1/°C]	-0.045 ~ 0.045					
Temperature Coefficient of V _{oc} [1/°C]	-0.240 ~ 0.240					
Temperature Coefficient of I _{sc} [1/°C]	0.270 ~ 0.270					
STC	Irradiance: 1000W/m², Cell Temperature: 25°C, AM1.5G					

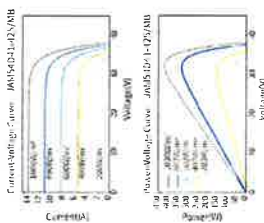
Remark: 1. The characteristics in this datasheet are for reference only. 2. The actual performance may vary due to the manufacturing process and the environment.

ELECTRICAL CHARACTERISTICS WITH 10% SOLAR IRRADIATION RATIO

TYPE	JAM54D41	JAM54D41	JAM54D41	JAM54D41	JAM54D41	JAM54D41
	-420/MB	-425/MB	-430/MB	-435/MB	-440/MB	-445/MB
Rated Max Power (P _{max}) [W]	42.0	42.5	43.0	43.5	44.0	44.5
Open Circuit Voltage (V _{oc}) [V]	38.74	38.74	38.74	38.74	38.74	38.74
Maximum Power Voltage (V _{mp}) [V]	32.38	32.38	32.38	32.38	32.38	32.38
Short Circuit Current (I _{sc}) [A]	12.55	12.55	12.55	12.55	12.55	12.55
Maximum Power Current (I _{mp}) [A]	12.94	12.94	12.94	12.94	12.94	12.94
Module Efficiency [%]	21.5	21.6	21.7	21.8	21.9	22.0
Power Factor [%]	0 ~ 3%					
Temperature Coefficient of P _{max} [1/°C]	-0.045 ~ 0.045					
Temperature Coefficient of V _{oc} [1/°C]	-0.240 ~ 0.240					
Temperature Coefficient of I _{sc} [1/°C]	0.270 ~ 0.270					
STC	Irradiance: 100W/m², Cell Temperature: 25°C, AM1.5G					

Remark: 1. The characteristics in this datasheet are for reference only. 2. The actual performance may vary due to the manufacturing process and the environment.

CHARACTERISTICS

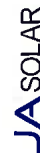


OPERATING CONDITIONS

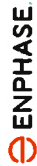
Maximum System Voltage	1500V DC
Operating Temperature	-40°C ~ +85°C
Maximum Surge Power Rating	30A
Maximum Static Load, Front	540Pa (12 lb/ft²)
Maximum Static Load, Back	740Pa (16 lb/ft²)
MOET	45 ± 2°C
Humidity	80% ± 10%
Safety Class	Class II
Fire Performance	UL Type 3B/Class C

Standard: IEC 61215, IEC 61730, UL 61730, UL 6174
ISO 9001, ISO 14001, ISO 45001
ISO 16001, 2015 Environmental management system
ISO 14001, 2015 Environmental health and safety management system
IEC 62041, 2019 Interim Edition, IEC 62041-1 Quality Management System for PV module manufacturing

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Email: info@jasolar.com marketing@jasolar.com www.jasolar.com



Version: 1.0 (2023.04.10)



IQ8HC Microinverter

Our newest IQ8 Series Microinverters^{1,2,3,4} are the industry's first microgrid-forming⁵, software-defined microinverters with split-phase power conversion capability to convert DC power to AC power efficiently.



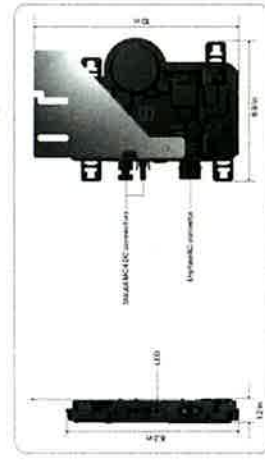
Energy Star

0.77 SIF⁶



Key specifications	IQ8HC-72-M-US@240 VAC	IQ8HC-72-M-US@240 VAC	IQ8HC-72-M-US@208 VAC
--------------------	-----------------------	-----------------------	-----------------------

Peak output power	384 VA	384 VA	366 VA
Nominal grid voltage (L-L)	240 V _{rms}	240 V _{rms}	208 V _{rms}
Nominal frequency	split-phase (L-L), 180°	split-phase (L-L), 180°	single-phase (L-L), 120°
CEC weighted efficiency	97.0%	97.0%	96.5%
Maximum input DC voltage	60 V	60 V	60 V
MPPT voltage range	29.5-45 V	29.5-45 V	29.5-45 V
Maximum module I _{sc}	20 A	20 A	20 A
Ambient temperature range	-40°C to 65°C (-40°F to 149°F)	-40°C to 65°C (-40°F to 149°F)	-40°C to 65°C (-40°F to 149°F)



¹ IQ8 Series Microinverters can be added to existing IQ7 systems on the same IQ Gateway only in the following grid-tied configurations: Solar Only or Solar + Battery (IQ Battery 3/10 and IQ Battery S9) without back-up.
² IQ8 Series Microinverters cannot be added to a site with existing IQ8 Series Microinverters on the same gateway.
³ IQ8 Series Microinverters are not supported for use in the following countries: Australia, Canada, China, France, Germany, India, Italy, Japan, Korea, Mexico, Netherlands, New Zealand, Norway, Singapore, South Africa, Sweden, Switzerland, Taiwan, Thailand, United Kingdom, United States, and Vietnam.
⁴ IQ8 Series Microinverters are not supported for use in the following countries: Argentina, Brazil, Chile, Colombia, Costa Rica, Czech Republic, Denmark, Finland, Greece, Hong Kong, Hungary, Israel, Italy, Japan, Korea, Mexico, Netherlands, New Zealand, Norway, Singapore, South Africa, Sweden, Switzerland, Taiwan, Thailand, United Kingdom, United States, and Vietnam.
⁵ Microgrid-forming capability is a feature of the IQ8 Series Microinverters that allows them to operate in a microgrid configuration without the need for a central inverter or gateway.
⁶ Microgrid-forming capability is a feature of the IQ8 Series Microinverters that allows them to operate in a microgrid configuration without the need for a central inverter or gateway.

Input data (DC)	Units	IQ8HC-72-M-US @240 VAC	IQ8HC-72-M-US @240 VAC	IQ8HC-72-M-US @208 VAC
-----------------	-------	------------------------	------------------------	------------------------

Commonly used module pairings ⁶	W	320-540	320-540	320-540
Module compatibility	—	To meet compatibility, PV modules must be within the maximum input DC voltage and maximum module I _{sc} listed below. Module compatibility can be checked at https://enphase.com/installers/microinverters/calculator .	To meet compatibility, PV modules must be within the maximum input DC voltage and maximum module I _{sc} listed below. Module compatibility can be checked at https://enphase.com/installers/microinverters/calculator .	To meet compatibility, PV modules must be within the maximum input DC voltage and maximum module I _{sc} listed below. Module compatibility can be checked at https://enphase.com/installers/microinverters/calculator .
MPPT voltage range	V	29.5-45	29.5-45	29.5-45
Operating range	V	18-58	18-58	18-58
Minimum/Maximum start voltage	V	22/58	22/58	22/58
Maximum input DC voltage	V	60	60	60
Maximum continuous operating DC current	A	14	14	14
Maximum input DC short-circuit current	A	25	25	25
Maximum module I _{sc}	A	20	20	20
Overvoltage class DC port	—	II	II	II
DC port backfeed current	mA	0	0	0
PV array configuration	—	Ungrounded array; no additional DC side protection required; AC side protection requires a maximum of 20 A per branch circuit	Ungrounded array; no additional DC side protection required; AC side protection requires a maximum of 20 A per branch circuit	Ungrounded array; no additional DC side protection required; AC side protection requires a maximum of 20 A per branch circuit

Output data (AC)	Units	IQ8HC-72-M-US @240 VAC	IQ8HC-72-M-US @240 VAC	IQ8HC-72-M-US @208 VAC
------------------	-------	------------------------	------------------------	------------------------

Peak output power	VA	384	384	366
Maximum continuous output power	VA	380	380	360
Nominal grid voltage (L-L)	V	240, split-phase (L-L), 180°	240, split-phase (L-L), 180°	208, single-phase (L-L), 120°
Minimum and maximum grid voltage ⁷	V	211-264	211-264	183-229
Maximum continuous output current	A	1.58	1.58	1.73
Nominal frequency	Hz	60	60	60
Extended frequency range	Hz	47-68	47-68	47-68
AC short-circuit fault current over three cycles	A _{rms}	2.7	2.7	2.7
Maximum units per 20 A (L-L) branch circuit ⁸	—	10	10	9
Total harmonic distortion	%	<5	<5	<5
Overvoltage class AC port	—	III	III	III
AC port backfeed current	mA	18	18	18
Power factor setting	—	0.85 leading ... 0.85 lagging	0.85 leading ... 0.85 lagging	0.85 leading ... 0.85 lagging
Peak efficiency	%	97.3	97.3	97.2
CEC weighted efficiency	%	97.0	97.0	96.5
Nighttime power consumption	mW	22	22	26

⁶ IQ8HC-72-M-US@240 VAC and IQ8HC-72-M-US@240 VAC are made in the USA, and the PCBs, electrical parts, and enclosures are domestically manufactured to meet the requirements of UL1741 to be considered for the NEC domestic content bonus adder.
⁷ No enforced DC/AC ratio.
⁸ Maximum allowable grid voltage is 264 V_{rms} for split-phase and 229 V_{rms} for single-phase. All microinverters per gateway in your array.
⁹ Limited by 100% duty cycle. Refer to local requirements to define the number of microinverters per gateway in your array.

Mechanical data	IQ8HC-72-M-US @240 VAC IQ8HC-72-M-DOM-US @208 VAC	IQ8HC-72-M-US @208 VAC IQ8HC-72-M-DOM-US ² @208 VAC
Ambient temperature range	-40°C to 65°C (-40°F to 149°F)	
Relative humidity range	4% to 100% (condensing)	
DC connector type	Stäubli MC4	
Dimensions (H × W × D); Weight	212 mm (8.3 in) × 175 mm (6.9 in) × 30.2 mm (1.2 in); 11 kg (2.43 lb)	
Cooling	Natural convection—no fans	
Approved for wet locations; Pollution degree	Yes; PD3	
Enclosure	Class II double-insulated, corrosion-resistant polymeric enclosure	
Environmental category; UV exposure rating	NEMA Type 6; outdoor	
Compliance	IQ8HC-72-M-US @240 VAC IQ8HC-72-M-DOM-US @240 VAC	IQ8HC-72-M-US @208 VAC IQ8HC-72-M-DOM-US ² @208 VAC

CA Rule 21 (UL 1741-SA), UL 62109-1, IEEE 1547-2018 (UL 1741-SB 3rd Ed.), FCC Part 15 Class B, ICES-0003 Class B, CAN/CSA-C22.2 NO. 107.1-01.
 This product is UL Listed as PV rapid shutdown equipment and conforms with NEC 2014, NEC 2017, NEC 2020, and NEC 2023 section 690.12 and C22.1-2018 Rule 64-218 rapid shutdown of PV systems for AC and DC conductors when installed according to the manufacturer's instructions.

Certifications

Components of the Enphase Energy System



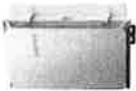
IQ Battery

All-in-one AC-coupled storage solution that integrates seamlessly with your solar energy system, providing reliable backup power and intelligent energy management for maximum performance and energy savings.



IQ System Controller

The IQ System Controller connects the home to the grid power, IQ Batteries, generator and solar PV with microinverters.



IQ Combiner/IQ Gateway

The IQ Combiner/IQ Gateway is a device that performs energy management, provides internet connectivity, and integrates with the IQ Series Microinverters to provide complete control and insights into the Enphase Energy System.

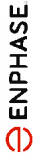


IQ Cable

The IQ Cable is a continuous-length 12-AWG cable with pre-installed connectors for IQ Microinverters that support faster, simpler, and more reliable installations. The cable is handled like standard outdoor-rated electrical wire, allowing it to be cut, spliced, and extended as needed.

Revision history

Revision	Date	Description
DSH-00047-7.0	December 2024	Updated information on backward compatibility with IQ7 Series Microinverters.
DSH-00047-6.0	October 2024	Updated a footnote of the specifications table.
DSH-00047-5.0	July 2024	Added US DOM SKU.
DSH-00047-4.0	February 2024	Updated information about IEEE 1547 interconnection standard requirements.
DSH-00047-3.0	October 2023	Included NEC 2023 specification in the "Compliance" section.
DSH-00047-2.0	September 2023	Updated module compatibility information.
DSH-00047-1.0	May 2023	Preliminary release.



DATA SHEET

IQ Combiner 5/5C

MODEL NUMBER	
IQ Combiner 5 (X-IQ-AMI-240-5)	IQ Combiner 5 with IQ Gateway printed circuit board for integrated renewable PV production metering (ANSI C12.20 ±0.5%), consumption monitoring (±2.5%), and IQ Battery monitoring (±2.5%). Includes a silver solar shield to deflect heat.
IQ Combiner 5C (X-IQ-AMI-240-5C)	IQ Combiner 5C with IQ Gateway printed circuit board for integrated renewable PV production metering (ANSI C12.20 ±0.5%), consumption monitoring (±2.5%), and IQ Battery monitoring (±2.5%). Includes Enphase Mobile Connect cellular modem (CELL MODEM-MI-06-SP-05). Includes a silver solar shield to deflect heat.
WHAT'S IN THE BOX	
IQ Gateway printed circuit board	IQ Gateway is the platform for initial energy management for comprehensive, remote maintenance, and management of the Enphase Energy System
Busbar	80 A busbar with support for one IQ Gateway breaker and four 20 A breakers for installing IQ Series Microinverters and IQ Battery SP
IQ Gateway breaker	Circuit breaker, 2-pole, 10 A/15 A
Production CT	Pre-wired renewable-grade solid-core CT, accurate up to 0.5%
Consumption CT	Two consumption metering clamp CTs, shipped with the box, accurate up to 12.5%
IQ Battery CT	One battery metering clamp CT, shipped with the box, accurate up to ±2.5%
CTRL board	Control board for wired communication with IQ System Controller 3/3G and the IQ Battery SP
Enphase Mobile Connect only with IQ Combiner 5C	4G-based LTE-M cellular modem (CELL MODEM-MI-06-SP-05) with a 5-year 1-Mile data plan
Accessories kit	Spare control busbars for the COMMS-KIT-02 board
ACCESSORIES AND REPLACEMENT PARTS (NOT INCLUDED, ORDER SEPARATELY)	
CELL MODEM-MI-06-SP-05	4G-based LTE-M cellular modem with a 5-year 1-Mile data plan
CELL MODEM-MI-06-AT-05	4G-based LTE-M cellular modem with a 5-year AT&T data plan
Circuit breakers (off-line-shield)	Supports Eaton BR2XX, Siemens Q2XX and GE/ABB THOL21XX Series circuit breakers (XX represents 10, 15, 20, 30, 40, 50 or 60). Also supports Eaton BR20A, BR20B, and BR240B circuit breakers compatible with the hold-down kit.
Circuit breakers (provided by Enphase)	BRK-10A-2-240V, BRK-15A-2-240V, BRK-20A-2P-240V, BRK-15A-2P-240V-B, and BRK-20A-2P-240V-E (more details in the "Also see notes" section)
XA-SOLASHIELD-E5	Replacement solar shield for IQ Combiner 5/5C
XA-ENV2-PCBA-3	IQ Gateway replacement printed circuit board (PCB) for IQ Combiner 5/5C
X-IQ-AM-HP-125A	Hold-down kit compatible with Eaton BR-8 Series circuit breakers (with screws)
YA-COMMS-PCBA-5	Replacement COMMS-KIT-02 printed circuit board (PCB) for IQ Combiner 5/5C
ELECTRICAL SPECIFICATIONS	
Rating	80 A
System voltage and frequency	120/240 VAC, 60 Hz
Busbar rating	125 A
Fault current rating	10 kAIC
Maximum continuous current rating (input from PV/storage)	64 A
Branch circuits (bolt and/or storage)	Up to four 2-pole Eaton BR, Siemens Q, or GE/ABB THOL Series distributed generation (DG) breakers only (not included)
Maximum fault interrupt circuit breaker rating (input)	80 A of Uninterrupted generation/95 A with IQ Gateway breaker included
IQ Gateway breaker	10 A or 15 A rating (CT # optional/Excluded)
Production metering CT	200 A solid core pre-installed and wired to IQ Gateway
Consumption monitoring CT (CT-200-CLAMP)	A pair of 200 A clamp-style current transformers is included with the box
IQ Battery metering CT	200 A clamp-style current transformer for IQ Battery metering, included with the box

*A plug-in solar metering grade cell modem for systems of up to 60 megawatts is available in the United States, Canada, Mexico, Puerto Rico, and the US Virgin Islands, where there is adequate cellular service for the cellular modem.



X-IQ-AMI-240-5
X-IQ-AMI-240-5C

IQ Combiner 5/5C

The IQ Combiner 5/5C consolidates interconnection equipment into a single enclosure and streamlines IQ Series Microinverters and IQ Gateway installation by providing a consistent, pre-wired solution for residential applications. IQ Combiner 5/5C uses wired control communication and is compatible with IQ System Controller 3/3G and IQ Battery SP.

The IQ Combiner 5/5C, IQ Series Microinverters, IQ System Controller 3/3G, and IQ Battery SP provide a complete grid-agnostic Enphase Energy System.

Smart

- Includes IQ Gateway for communication and control
- Includes Enphase Mobile Connect (CELL MODEM-MI-06-SP-05), only with IQ Combiner 5C
- Supports flexible networking: Wi-Fi, Ethernet, or cellular
- Provides production metering (reverse grade) and consumption monitoring

Easy to install

- Mounts to one stud with centered brackets
- Supports bottom, back, and side conduit entries
- Supports up to four 2-pole branch circuits for 240 VAC plug-in breakers (not included)
- 80 A total PV branch circuits
- Bluetooth-based Wi-Fi provisioning for easy Wi-Fi setup

Reliable

- Durable NRTL-certified NEMA Type 3R enclosure
- 5-year limited warranty
- 2-year labor reimbursement program coverage included for both the IQ Combiner 5/5C
- UL1741 Listed

IPC-5-5C-DS-1-00007-4 © EN-US-2024-06-13



IQ Series Microinverters
The high-powered smart grid-ready IQ Series Microinverters (IQ3, IQ2, and IQ8 Series) simplify the installation process.



IQ System Controller 3/3G
Provides microgrid interconnection device (MID) functionality by automatically detecting grid failures and seamlessly transitioning the home energy system from grid power to backup power.



IQ Battery SP
Fully integrated AC battery system. Includes six field-replaceable IQBD-BAT Microinverters.



IQ Load Controller
Helps prioritize essential appliances during a grid outage to optimize energy consumption and prolong battery life.



5-year limited warranty



*For country-specific warranty information, visit the <https://enphase.com/na/en/usa/faq/warranty> page.
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MECHANICAL DATA

Dimensions (W × H × D)

3.75 in. × 46.5 in. × 16 in. (4.25" × 49.5" × 16.5")
Height is 53.5 in. (21.06') with mounting brackets.

Weight

75 kg (165 lb)

Ambient temperature range

-40°C to 40°C (-40°F to 105°F)

Cooling

Natural convection, plus heat shield

Enclosure environmental rating

Outdoor, NRTL-certified, NEMA type 3R, polycarbonate construction

- 20 A to 50 A breaker inputs: 14 to 4 AWG copper conductors
- 60 A breaker branch input: 4 to 1/0 AWG copper conductors
- Main lug combined output: 10 to 2/0 AWG copper conductors
- Neutral and ground: 14 to 1/0 copper conductors
- Always follow local code requirements for conductor sizing

Wire sizes

Built-in CTR, board for wired communication with the IQ Battery 5P and the IQ System Controller 3/3G. Integrated power line communication for IQ Series Microconverters.

Communication (in-premises connectivity)

Up to 2,600 meters (8,530 feet)

Altitude

Up to 2,600 meters (8,530 feet)

COMMUNICATION INTERFACES

802.11b/g/n (dual band 2.4 GHz/5 GHz) for connecting the Ephase Cloud through the Internet.

Integrated Wi-Fi

10 m (32.8 feet)

Bluetooth

BLE4.2, 10 m range to configure Wi-Fi SSID

Ethernet

Optional 802.3 Cat5E for Cat 6 UTP Ethernet cable (not included) for connecting to the Ephase Cloud through the Internet.

Cellular/Mobile Connect

CELLMODEM-MT-Q6-SP-Q5 or CELLMODEM-MT-Q6-AT-Q5 (included with the IQ Combiner 5C)

Digital I/O

Digital input/output for grid operator control

USB 2.0

Mobile Connect, COMMS-KIT-01 for IQ Battery 3/3T/10/10T, COMMS-KIT-02 for IQ Battery 5P

Access point (AP) mode

Full connection between the IQ Gateway and multiple devices running the Ephase Installer App

Metering ports

Up to two Consumption CTs, one IQ Battery CT, and one Production CT

Power line communication

90–110 kHz

Web API

See <http://www.ephase.com/ephasa-api>

Local API

See Guide for local API at

<http://www.ephase.com/ephasa-api>

COMPLIANCE

IQ Combiner with IQ Gateway

UL 1741, CAN/CSA C22.2 No. 107.1, Title 47 CFR, Part 15, Class B, ICES 003, NOM-208-SCTI-2016, UL 60951-1/CAN/CSA 22.2 No. 61010-1, IEEE 1547, 2018 IUL 1741-SB, 3rd Ed., IEEE 2030.5/CSP

Compliant Production metering, ANSI C12.20 accuracy class 0.5 (PV production)

COMPATIBILITY

PV

IO6, IO7, and IO8 Series Microinverters

IO System Controller

EP2005/IO-H4240US00

IO System Controller 2

EP2005/IO-H4240US01

IO Battery

ENCHARGE-5-IP-NA, ENCHANGE-IO-IP-NA, ENCHANGE-5-IP-NA, ENCHANGE-IO-IP-NA

IO System Controller 3

SC7000ITC240US01, SC7000IHC240US01

IO Battery

IOBATTERY-5P-IP-NA

Accessories



Mobile Connect

4G-based LTE-M cellular modem with a 5-year data plan
CELLMODEM-MT-Q6-SP-Q5 for Sprint and
CELLMODEM-MT-Q6-AT-Q5 for AT&T



Circuit breakers

BRK-10A-2-240V Circuit breaker, 2-pole, 10 A, Eaton BR210
BRK-15A-2-240V Circuit breaker, 2-pole, 15 A, Eaton BR210
BRK-20A-2-240V-A Circuit breaker, 2-pole, 20 A, Eaton BR208B
BRK-20A-2-240V-B Circuit breaker, 2-pole, 20 A, Eaton BR208B
BRK-20A-2-240V-A Circuit breaker, 2-pole, 20 A, Eaton
BR208B with hold-down kit support



CT-200-SOLID

200 A revenue-grade solid core Production CT
with -0.5% error rate (replacement SKU)



CT-200-CLAMP

200 A clamp-style consumption and battery
metering CT with ±2.5% error rate (replacement
SKU)

*For information about IQ Combiner 5/5C compatibility with the 2nd generation of inverters, refer to the compatibility matrix at <http://www.ephase.com/ephasa-api>

†IQ Combiner 5/5C comes pre-equipped with COMMS-KIT-02

‡ICC-5-5C-0511-0000P-1-0-1741-SB-3rd Ed., IEEE 2030.5/CSP

§ICC-5-5C-0511-0000P-1-0-1741-SB-3rd Ed., IEEE 2030.5/CSP

Revision history

REVISION	DATE	DESCRIPTION
DSH-00007-4.0	June 2024	Updated the UL smart mark.
DSH-00007-3.0	March 2024	Updated accessories and replacement parts, communication interfaces, and compatibility specifications.
DSH-00007-2.0	September 2023	Included Bluetooth specifications.
DSH-00007-1.0	May 2023	Initial release.

Eaton DG222NRB

Catalog Number: DG222NRB

Eaton General duty cartridge fuse safety switch, 60 A, NEMA 3R, Painted galvanized steel, Class H fuses, Fusible with neutral, Two-pole, Three-wire, Category: general duty safety switch, 240 V

General specifications

Product Name	Catalog Number
Eaton general duty cartridge fuse safety switch	DG222NRB
UPC	782113144221
Product Length/Depth	Product Height
7.35 in	14.37 in
Product Width	Product Weight
8.4 in	10 lb
Warranty	Compliances
Eaton Selling Policy 25-000, one (1) year NEC 230.62 (C) Compliant Barrier from the date of installation of the Product or eighteen (18) months from the date of shipment of the Product, whichever occurs first.	Certifications
	UL Listed
	Catalog Notes
	Maximum hp ratings apply only when dual element fuses are used. 3-Phase hp rating shown is a grounded B phase rating. UL listed.



Physical Attributes

Enclosure
NEMA 3R

Enclosure material
Painted galvanized steel

Fuse configuration
Fusible with neutral

Performance Ratings

Ampereage Rating
60A

Fuse class provision
Class H fuses

Voltage rating
240V

Miscellaneous

Product Category
General duty safety switch

Resources

Catalogs
Eaton's Volume 2—Commercial Distribution

Multimedia
Switching Devices Flex Center
Double Up on Safety

Specifications and datasheets
Eaton Specification Sheet - DG222NRB

Specifications

Eaton DG222URB

Catalog Number: DG222URB

Eaton General duty non-fusible safety switch, single-throw, 60 A, NEMA 3R, Rainproof, Painted galvanized steel, Two-pole, Two-wire, 240 V

General specifications

Product Name
Eaton general duty non-fusible safety switch

Catalog Number
DG222URB

UPC
782113144238

Product Length/Depth
7.38 in

Product Width
8.69 in

Product Height
14.38 in

Product Weight
9 lb

Warranty

Eaton Selling Policy 25-000, one (1) year NEC 230.62 (C) Compliant Barrier from the date of installation of the Product or eighteen (18) months from the date of shipment of the Product, whichever occurs first.

Compliances

Certifications
UL Listed

Catalog Notes

WARNING! Switch is not approved for service entrance unless a neutral kit is installed.

Physical Attributes

Enclosure
NEMA 3R

Enclosure material
Painted galvanized steel

Fuse configuration
Non-fusible

Number Of Poles
Two-pole

Number of wires
2

Performance Ratings

Ampereage Rating
60A

Voltage rating
240V

Miscellaneous

Product Category
General duty safety switch

Resources

Catalogs
Eaton's Volume 2—Commercial Distribution

Multimedia
Switching Devices Flex Center

Double Up on Safety

Specifications and datasheets
Eaton Specification Sheet - DG222URB

Warranty guides
Selling Policy 25-000 - Distribution and Control Products and Services

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Powering Business Worldwide

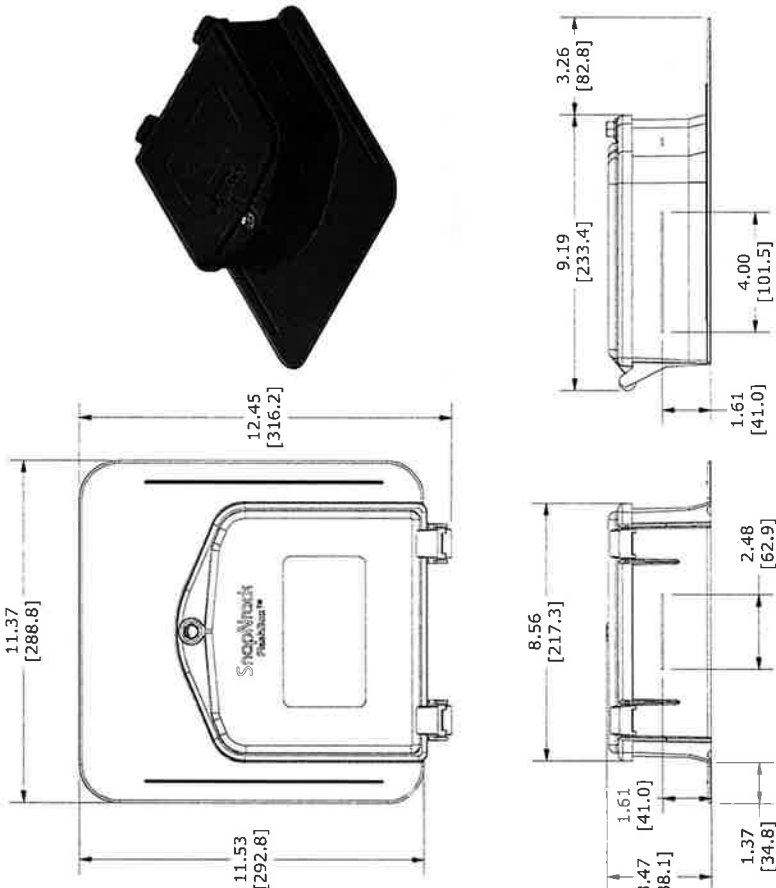
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Eaton.com/socialmedia

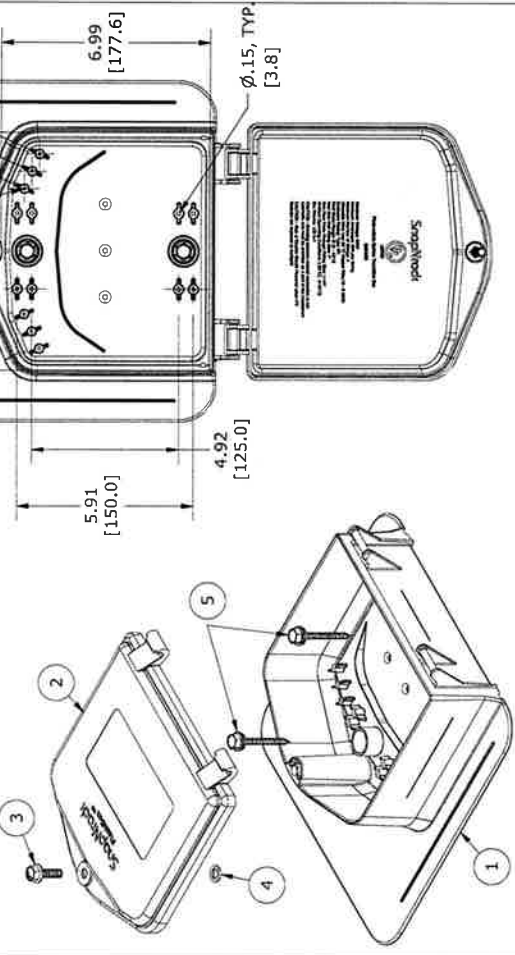
DESCRIPTION: SNAPNRACK, TDS, FLASHBOX	DOC NUMBER: SNR-DC-01418		SnapNrack®	
	DRAWN BY: D. RYAN		SUNRUN INSTALLATION SERVICES INC.	
PART NUMBER(S): 242-10028	REV: A		DATE: 12/28/2023	
	UNITS: IN, LB, DEG [MM, KG, DEG]		SHEET: 1-2	



MATERIALS:	UV RESISTANT POLYCARBONATE, STAINLESS STEEL, BRASS
BOX VOLUME:	153 IN ³ [2,507 CM ³]
ENCLOSURE TYPE:	TYPE 3R, ROOF PITCH 2:12 - 12:12
TORQUE SPECIFICATION:	36 IN.LB [4.07 N.M]
CERTIFICATION:	UL 1741 LISTED SOLAR TRANSITION BOX, FILE E534366
WEIGHT:	1.692 [.767]

DESCRIPTION: SNAPNRACK, TDS, FLASHBOX	DOC NUMBER: SNR-DC-01418		SnapNrack®	
	DRAWN BY: D. RYAN		SUNRUN INSTALLATION SERVICES INC.	
PART NUMBER(S): 242-10028	REV: A		DATE: 12/28/2023	
	UNITS: IN, LB, DEG [MM, KG, DEG]		SHEET: 2-2	

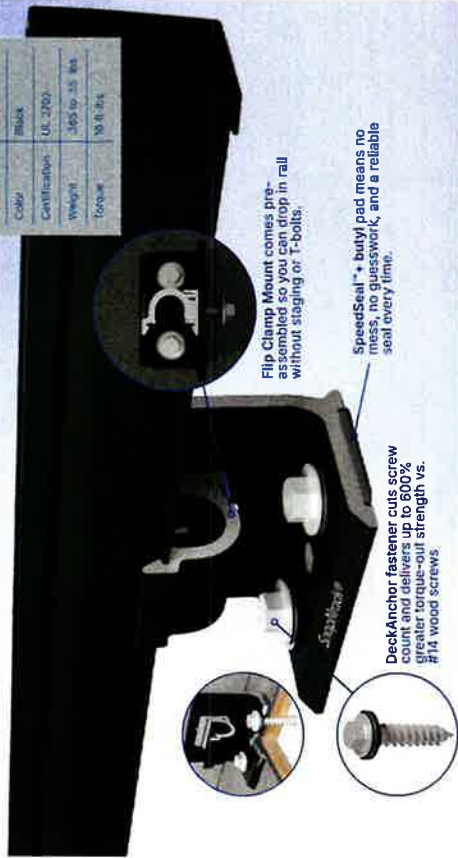
- LID TEXT:**
- PHOTOVOLTAIC SYSTEM TRANSITION BOX: E534366
 - MAXIMUM VOLTAGE: 600V
 - MAXIMUM AMPERAGE: 20A PER STRING
 - MAXIMUM NUMBER OF STRINGS: 4
 - ALLOWABLE WIRE: USE 90°C COPPER WIRE, 12-6 AWG
 - ENCLOSURE RATING: TYPE 3R
 - ROOF SLOPE RANGE: 2:12 - 12:12
 - MAX SIDE WALL FITTING SIZE: 1"
 - MAX FLOOR PASS-THROUGH FITTING SIZE: 1 1/4"
 - AMBIENT OPERATING CONDITIONS: -35°C TO 75°C
 - BOX VOLUME: 153 IN³
 - **CAUTION** - BONDING BETWEEN CONDUIT CONNECTION IS NOT AUTOMATIC AND MUST BE PROVIDED AS A PART OF THE INSTALLATION!
 - **CAUTION** - RISK OF ELECTRIC SHOCK! POWERED WHEN PV MODULES ARE EXPOSED TO SUNLIGHT!



PARTS LIST		DESCRIPTION
ITEM	QTY	
1	1	SNAPNRACK, FLASHBOX, BOX BODY
2	1	SNAPNRACK, FLASHBOX, BOX LID
3	1	BOLT, FLANGE, NON-SERRATED, 5-16IN-18 X 1IN, SS
4	1	SNAPNRACK, RETAINING WASHER FOR STANDARD BOLTS, PLASTIC
5	2	SNAPNRACK, SEALING WASHER WOOD SCREW, #14 X 2-1-4IN, 1-2IN HEX HEAD, SS

UltraFoot™

Built to save you time on the roof.



Why Installers Choose It

- Pre-assembled Flip Clamp Mount means no staging, no T-bolts, just drop in rail and go
- SpeedSeal™ + butyl comes pre-applied. Peel, stick, done
- DeckAnchor cuts screw count in half without sacrificing strength
- Up to 600% greater torque-out vs. standard #14 screws
- Rafter or Deck. Same attachment, your install style
- Works on pitched, low-slope, and flat roofs
- Available in -USA SKUs for qualifying projects

UltraFoot™ Options

Three install options. Choose what works best for your job.



UltraFoot, Rafter
242-10056 or 242-10056-USA
Rafter Mounting: Requires (1)
Sealing Washer Lag, 242-02168



UltraFoot, Deck
242-10057 or 242-10057-USA
Rafter Mounting: Requires (2)
Sealing Wood Screws, 242-10066,
Deck Mounting: Requires (4)
Sealing Wood Screws



UltraFoot, Anchor
242-10058 or 242-10058-USA
Rafter Mounting: Requires (1)
Sealing Washer Lag, 242-02168
Deck Mounting: Requires (2)
Deck Anchors, 242-10035

Fastener Options

(Sold Separately)



Sealing Washer Lag,
5/16" x 4 1/2"
242-02168
Rafter Mounting Only
(1) Required



Sealing Wood Screw,
#14 x 3", 1/2" Hex
242-10066
Rafter & Deck Mounting
(2) Required for rafter mounting
(4) Required for deck mounting



DeckAnchor™ 2.5
242-10035
Deck Mounting Only
(2) Required

SnapNrack

Ultra Rail Roof Mount System



The Ultimate Value in Rooftop Solar

 Industry leading Wire Management Solutions

 Mounts available for all roof types

 Single Tool Installation

 All SnapNrack Module Clamps & Accessories are compatible with both rail profiles

Start Installing Ultra Rail Today

SnapNrack Ultra Rail System

A sleek, straightforward rail solution for mounting solar modules on all roof types, Ultra Rail now features **one** rail profile, **UR-45**, a lightweight rail profile that's suited for all geographic regions, with **varying** span capabilities. UR-45 Rail maintains all the great features of SnapNrack rail like snap-in module clamps and an open rail channel for integrated wire management. The Ultra Rail portfolio features multiple roof attachment sealing technologies for all install preferences.

NEW! UltraFoot Roof Attachments (Coming Soon)

- Features SpeedSeal™ Technology, a pre-installed butyl pad for easy peel & stick installation
- The **only** single lag roof attachment with butyl sealing available
- UltraFoot available in (3) configurations to accommodate rafter & deck mounting based on DeckAnchor™ or wood screw install preferences
- All UltraFoot designs feature **new** Flip Clamp Mount that centers load over fastener & creates an easier snap-in experience with UR-45 Rail



The Entire System is a Snap to Install

- Ultra Rail Mounts include snap-in brackets for attaching rail
- Ultra Rail Mid Clamps & End Clamps are one-size-fits-all universal clamping height
- Universal End Clamps & snap-in End Caps provide a clean look to the array edge



Unparalleled Wire Management

- Open rail channel provides room for running wires resulting in a long-lasting quality install
- Module clamps eliminate bolt interference in the rail channel creating more space for wire management
- Industry best wire management offering includes Junction Boxes, Universal Wire Clamps, MLPE Attachment Kits & Conduit Clamps
- System is fully bonded & listed to UL 2703 Standard



Quality. Innovative. Superior.

SnapNrack Solar Mounting Solutions are engineered to optimize material use and labor resources and improve overall installation quality and safety.

877-732-2860 www.snapnrack.com contact@snapnrack.com

© 2024 by SnapNrack Solar Mounting Solutions. All rights reserved.

INSULATION-PIERCING TAP CONNECTORS
CONECTORES DE DERIVACION QUE PERFORAN EL AISLAMIENTO



Installation Instructions:

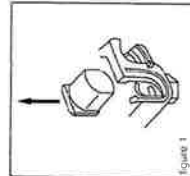
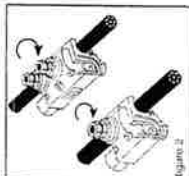
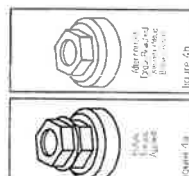
[illegible]

Figure 1



It is difficult



continued

Instalación Instrucciones:



Advertencia

Este libro es una obra de ficción. Los hechos, los nombres, los lugares, los acontecimientos, los personajes, los diálogos, las descripciones, etc., son pura invención del autor. No debe considerarse una obra de divulgación científica.

1. Determine la dirección en la que el conductor debe salir para salir y deslice la tapa terminal sobrante. **Vea la ilustración 1.**
2. Coloque el lado principal (o de alimentación) del conector alineándolo del cual se hace la derivación y apriete firmemente el lado del borne. **Vea la ilustración 2.** Si hace falta, alíjelo el perno de instalación para permitir que el conector se abra completamente. **NO ES RECOMENDABLE DESARMIAR EL CONECTOR.** El estator "Turbo" de plástico mantiene al conector abierto, lo cual evita que se vuelva a cerrar y asegure que las conexiones se hagan correctamente.
3. Corte el extremo del cable de derivación perpendicularmente a su eje.
- NO PELE EL AISLAMIENTO DEL CABLE.**
4. Inserte el cable de derivación en el lado de derivación del conector hasta que toque contra la tapa terminal que queda. **Vea la ilustración 3.**

Como un prelovente este perro, que regaña la bota con una leve estirador o de capo lección que la puzza que regaña los dos (2) partes y se separa. Si el conector tiene dos (2) partes de ensamblaje, aplételos alternativamente hasta que el dispositivo de regulación de tracción se abra. **Veal la ilustración 4 y 4b.** Observe que el espaciador "tubo" de plástico en el costado también se fracturará. Para hacer esta instalación aun más fácil y para aliviar la fuerza de la mano, se puede usar una segunda llave sobre la primera. **NO USE** la llave de torsión sobre la llave de tracción, **NO USE** aplicadores de plástico, **NO USE** llaves conectoras de plástico, **NO USE** llaves conectoras de aluminio. **NO USE** el dispositivo hexagonal que regaña la bota. **NO** se requiere una llave de tracción.

ASEGÚRESE QUE SE USE, PARA EL
ENSAMBLADO, SÓLO EL DISPOSITIVO
SUPERIOR DE REGULACIÓN DE TORSIÓN DE LA
CABEZA DEL PERNO. LA SEGUNDA PIEZA
HEXAGONAL (LA MÁS CERCANA AL CUERPO
DEL CONECTOR) SE USA SÓLO PARA
DESARMAR EL CONECTOR.

cola. El porno regulador de torsión garantiza la aplicación de la torsión correcta a los conductores al usar una llave de torsión. La información importante de seguridad de cable pelado y de toma, las actuaciones de materiales y temperatura está marcada en el producto.

EB-TAP® INSULATION PIERCING TAP CONNECTORS TORQUE AND CURRENT RATINGS

(Solid and/or Stranded)

CATALOG#	MAIN	TAP	NOMINAL TORQUE	TAP CURRENT RATING (IN AMPS)*
BTC20-1/4	2/0-4	10-14*	80 IN. LBS.	40
BTC10-1/8	1/0-8	1/0-8	80 IN. LBS.	130
BTC4-0-8	4/0-3	2-10***	125 IN. LBS.	130
BTC4-0-6B	4/0-2	1/0-6	160 IN. LBS.	170
BTC4-0-2	4/0-2	4/0-2	160 IN. LBS.	260
BTC250-1	250-1	3/0-4	160 IN. LBS.	225
BTC250-4	250-1/0	4/0-2	160 IN. LBS.	260
BTC350-2	350-1/0	350-1/0	330 IN. LBS.	350
BTC350-1/0	500-2/0	4/0-4	330 IN. LBS.	260
BTC500-2	500-4/0	350-1/0	330 IN. LBS.	350
BTC500-1/0	500-2/0	10-14 ***	80 IN. LBS.	350
BTC500-1/4	500-2/0	10-14 ***	80 IN. LBS.	350
BTC500-1/2	500-2/0	500-250	330 IN. LBS.	430

+10-14 Cu SOLID/STRANDED; 10-12 Al SOLID/STRANDED

+2-10 Cu SOLID/STRANDED; 2-10 AL STRANDED

4 ++2-10 Cu SOLID/STRANDED; 2-8 Al STRANDED
4 ++10-14 Cu SOLID/STRANDED; 10-13 Al STRANDED

* Based on NEC Table 310-16 1996 (Not more than 3 insulated conductors in a raceway at ambient temperature of 30°C/86°F)

Safety Wallen A Avlen de Seguridad



The manufacturer and distributor warrant this product only for material and workmanship, and they shall not be liable for any special, incidental or consequential damages or for any damage or loss caused by improper use or installation.

O fabricante e distribuidor só garantizam os materiais e a manufatura deste produto e não se tornarão responsáveis por qualquer dano especial, incidental ou consequencial, ou por qualquer dano ou perda decorrente de uso inadequado ou de instalação incorreta.

AWI 824D
039130

Your Venture Home System



TRIPLE-BLACK
SOLAR PANELS



VENTURE HOME
MONITORING



VENTURE HOME
SERVICE PLAN



JA Solar 440 W

Your Venture system will produce

8,230

kilowatt hours of energy per year.

Congratulations!

You're on the way to saving with solar.

\$0

UPFRONT
PAYMENT

8,230

kWh
ANNUALLY

2.9%

ANNUAL
INCREASE

\$126.87

MONTHLY
PAYMENT

CUSTOMER SIGNATURE:

Joel Thompson

venturehome.

Letter of Authorization / Property Owner Authorization Form

I, Joel Thompson,

am the owner of the property located at address:

280 Richmond Road, Troy, New Hampshire 03465

I hereby authorize Venture Home Solar, LLC dba Venture Solar Power of Attorney to handle dealings associated with the successful interconnection and application for obtaining local building and other permits from the Authority Having Jurisdiction as required for a Solar Photovoltaic System located on my Property. I further authorize you to release my account information for the prior twelve (12) months, including electrical usage and demand history. Venture Solar agrees to keep this information confidential and use it only for the purposes of designing, installing, and interconnecting my photovoltaic system, obtaining incentives on my behalf, and establishing interconnection agreements, proper metering, and approvals.

Print Name: Joel Thompson

Owner Signature:

Electronic Signatures
Joel Thompson
Time Assured Signatures
1625485475214270-4865-64701677882

07/06/2026

Date:

Print Name: Joel Thompson

Utility Bill Owner Signature:

Electronic Signatures
Joel Thompson
Time Assured Signatures
28637311-828-4339-8885-64701677882

07/06/2026

Date:



Venture Home Damage Liability Addendum for PV Installations

Customer: Joel Thompson

Installation Address: 280 Richmond Road, Troy, New Hampshire 03465

Venture is liable to pay for damage to your real property caused by our negligence during your installation. We shall not be liable for damage to the system's installation area due to old, deteriorated, or improperly installed roofing, sub-roofing, roof coverings, supports, siding, exterior paint or covering, or other non-visible installations. We shall not be liable for damage to your real property that materializes after the installation is complete.

In the event that you suspect there may be damage to your property caused by our installation please contact us immediately at 347-305-7999 or email support@venturesolar.com to schedule an onsite inspection of the damage. Venture may elect to hire a sub-contractor to repair the damage.

After we conduct our inspection of the alleged damage, we will contact you with a plan to correct the damage.

If you elect to use a contractor other than Venture to repair the damage without written consent from Venture, we reserve the right to not reimburse you for the damages.

Our total liability shall be limited to the amounts due payable to Venture under your agreement.

Except as set forth in this addendum, you agree there are no oral or written representations or inducements, expressed or implied, any way conditioning this addendum, and we expressly disclaim their existence. By signing this addendum, you acknowledge that you have read and understand this agreement or have had a competent legal representative explain its terms, and hereby accept this addendum in its entirety. You further acknowledge receiving a complete copy of this agreement.

Electronic Signature
Joel Thompson
10260706211000UTC: 216212121228

07/06/2026

Signature

Date



Venture Solar System Removal Addendum for Residential PV Installations

Customer: Joel Thompson

Installation Address: 280 Richmond Road, Troy, New Hampshire 03465

If you elect to have your solar energy system removed and re-installed in the future there will be a charge of \$325 per panel to remove, store, and re-install the PV system. If you elect to have the system removed, but not re-installed there will be a charge of \$220 per panel. This pricing is valid for 120 months from the date of signature.

Venture guarantees the penetrations related to the solar PV system and the area 6" around them for 10-years, but takes no responsibility for the roof or it's integrity otherwise.

Except as set forth in this addendum, you agree there are no oral or written representations or inducements, expressed or implied, any way conditioning this addendum, and we expressly disclaim their existence. By signing this addendum, you acknowledge that you have read and understand this agreement or have had a competent legal representative explain its terms, and hereby accept this addendum in its entirety. You further acknowledge receiving a complete copy of this agreement.

Electronically Signed: 2026-07-06 21:50:18 UTC - 216 212 101 028
Joel Thompson
Electronically Signed: 2026-07-06 21:50:18 UTC - 216 212 101 028

07/06/2026

Signature

Date

In the event that you suspect there may be an issue with your roof, please contact us immediately at 800-203-4158 or email support@venturesolar.com to schedule an on site inspection.

venturehome Project Overview & Timeline

ProjectAddress: 280 Richmond Road, Troy, New Hampshire 03465

Project Management Team: 508-722-1735

Post System Activation Support: 929-360-2350

1 Welcome Call

- Receive a welcome call from our Customer Experience team after signing your contract to introduce themselves and cover your project timeline as well as your preferred communication method.
- You can contact the customer experience team at 929-357-9535 for questions.

2 Engineering Design

- Our Engineering team will create a final plan-set design to submit to your building department that will be reviewed and stamped by a licensed Architect or Engineer.

3 Interconnection and Permitting

- Our local operations team in 2 Kane Industrial Dr. Hudson, MA 01749 will handle all of the paperwork with your utility company as well as your building and electrical permits applications to the local building department. They can be reached at 800-203-4158

4 Installation Scheduling

- Once all approvals have been granted, we will contact you to schedule your installation day and then coordinate your inspection!

5 System Activation

- After your inspection is passed we will coordinate with your utility company to install your new solar meter and activate your solar system!
- Once active, we will explain how to monitor your system and ensure you have access to do so from your device of choice & review any other questions about your system.
- We're always available for ongoing support by calling 929-357-9535, and will make sure to check in with you proactively to ensure your satisfaction with your system

6 Saving Money and Earning with Referrals

- Start saving money with your new solar system.
- Refer friends and family to earn rewards through the Venture App today.

Change of circumstances?

We understand sometimes plans change. If a life event comes up and you have a change of heart about saving with solar we want to hear from you.

You may cancel this agreement within ten (10) business days of signature, no questions asked. Call 203- 409-8565 to receive confirmation.

If you're outside of the ten days, that's ok. Outside of the normal window would require a written confirmation from our team that we've parted ways on the project so that we can close out any permits, applications, and financing so you're free and clear going forward.

If you do have a change of heart after 10 days, we simply ask that you call us at 203- 409-8565 to confirm everything will be closed out, any outstanding deposit is returned to you if applicable, and for you to receive written confirmation from our team. There is a one time reimbursement to Venture up to \$750 for projects that have eclipsed the 10 day grace period.

Please sign below acknowledging the above schedule and policy in the event of a change in circumstances.

Joel Thompson

Joel Thompson

07/06/2026

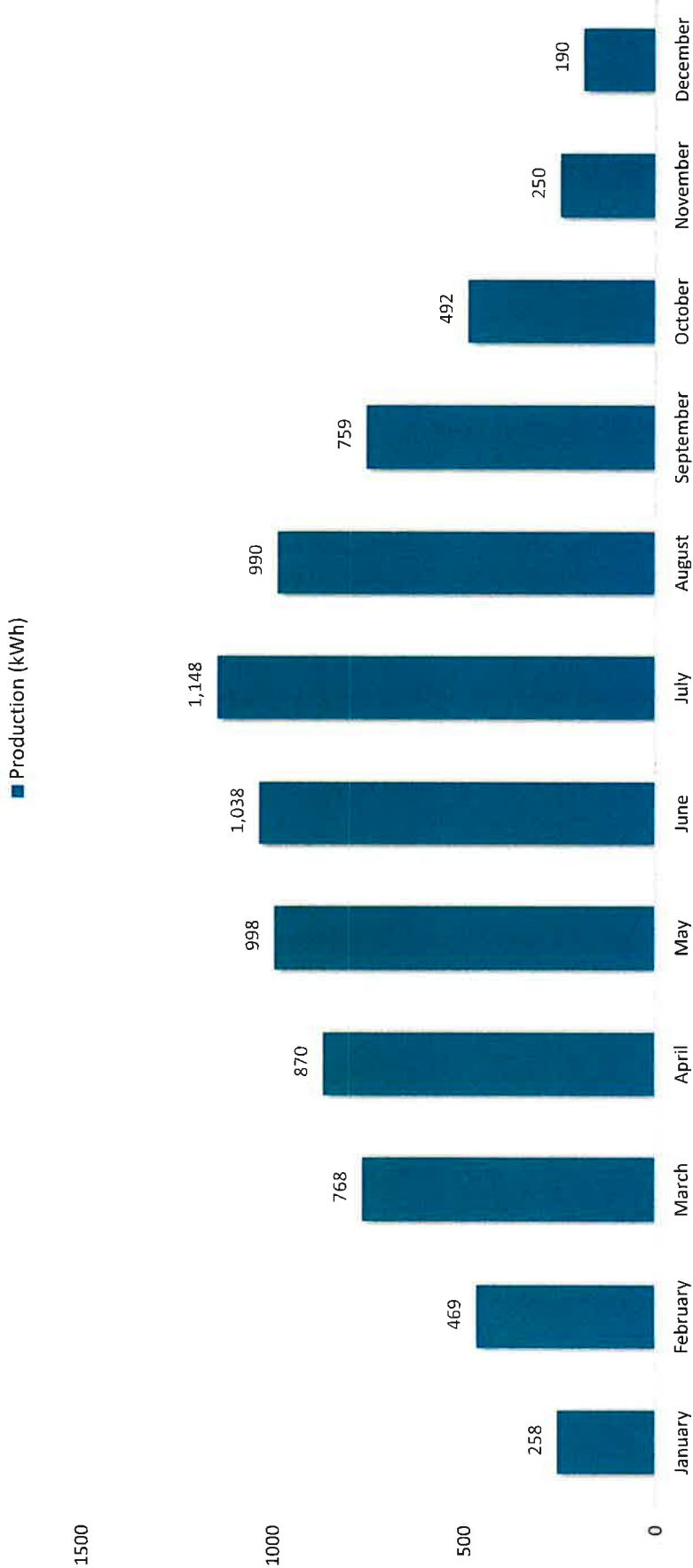
(Signature)

(Name)

(Date)



Solar Electricity Generated (Estimate)



This graph illustrates the estimated monthly energy output for your home solar system in Year 1, based on current data and assumptions. These estimates are provided for informational purposes only and do not constitute a guarantee of energy output, financial savings, or system performance. Actual results may vary due to factors including, but not limited to, weather patterns, site conditions, system maintenance, equipment performance, or changes in energy usage. Venture Home Solar, LLC is not liable for any discrepancies between estimated and actual performance or for any losses arising from reliance on these estimates. For detailed information, please refer to your contract or consult with your finance provider, if applicable.



SCHEDULE E
Energy Usage and Billing Assumptions

Customer: Joel Thompson
Installation Address: 280 Richmond Road, Troy, New Hampshire 03465
Annual Usage: 7681 kWh

Our goal at Venture Solar is to provide the best customer experience possible by delivering the highest quality installation and service. We also strive to set proper expectations about your solar energy system's expected performance and its effect on your future energy usage.

Venture Solar uses the historical energy usage information made available by the customer to calculate the annual energy kilowatt-hour (kWh) needs and to design the most efficient System possible to reduce the energy needs from your utility provider within the bounds of any local rules and regulations. There may be adjustments to the estimated energy needs based on input from the customer such as, but not limited to, purchasing an electric vehicle, upgrading appliances, or a change to the number of people living in the home.

Customer acknowledges that Venture determines historical and future energy needs to the best of its ability based on the information provided but makes no promises or guarantees related to how much energy the customer will use in the future. Estimated remaining energy needs from your utility provider are an estimate based on the energy usage in kWh displayed on this document. If your energy usage increases or decreases, it may affect the percentage of energy in kWh that is provided by your System and resulting utility bills.

Customer acknowledges that utility rates fluctuate and will likely increase over time. If utility rates increase, the resulting remaining energy in kWh that the customer needs beyond what the System produces may cost more than originally presented in your proposal. For any avoidance of doubt, if the cost of power with your utility company increased by \$0.05 per kWh and you needed 1,000 kWh annually beyond what your system energy system produced, you would pay approximately \$50 more per year than expected at the time your proposal was calculated assuming no other changes in your utility billing structure or plan. Venture Solar includes an assumption of utility rate increases when we calculate your lifetime savings.

Name(s) Joel Thompson

Customer's Signature
Joel Thompson
36a1837c-6688-49f1a77b-5d17d777027

07/06/2026

Signature _____

Date _____

FINAL DESIGN



Electronic Signer
2024-07-26 21:50:26 UTC - 214 710 191 228
Joel Thompson
PowerAssureSign
K025497.2374-K025497.2374

Joel Thompson



venturehome

Instant Rewards for Your Referrals!

With Venture Solar's Referral Program, you can earn up to \$1,000 per referral through the Venture Solar App!

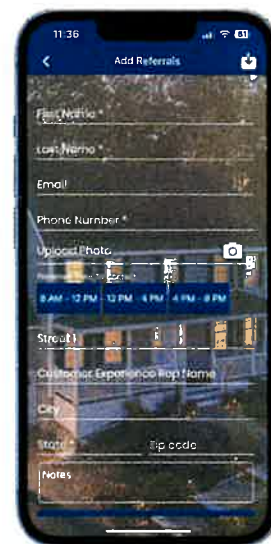
Love solar? Know someone who might be interested? Get rewarded for spreading the word. The Venture Solar App makes it simple to refer friends, track your progress, and earn cash, seamlessly deposited into your bank account.

How Much Can You Earn?

- **\$500** when your first referral goes solar
- **\$750** for your second successful referral.
- **\$1,000** for every successful referral after the first two.

How It Works

- 1. Submit a Referral:** Enter your friend's contact info in the Venture Solar App or email referrals@venturesolar.com.
- 2. They Go Solar:** Once they make the switch, you earn big rewards.
- 3. Get Paid:** Payments go directly into your bank account, no waiting, no hassle.



Why Refer with Venture Solar?

- **It's Easy:** The app lets you refer, track, and get paid effortlessly.
- **Help Your Friends Save:** Solar reduces energy bills and benefits the planet.
- **More Referrals, More Cash:** The rewards keep growing with each successful referral.

Get Started Today! Download the Venture Solar app and start sharing the savings. We're here to help you every step of the way.



Apple



Google Play





7/15/2026

Joel Thompson
280 Richmond Road
Troy, New Hampshire, 03465

Re: Solar Panel Installation

To Whom It May Concern,

At your request, Patrick Bussett of Venture Solar LLC (NH license #16997), has carefully reviewed the existing roof framing and the proposed connection of the solar panels to the roof for the building referenced above.

The following building codes were used in conjunction with the NH State Building Code local amendments to generate pertinent design criteria:

ASCE 7-16 – Minimum Design Loads for Buildings and Other Structures
International Residential Code 2021 Edition (IBC)
National Design Specification for Wood Construction 2018 Edition (NDS)

Design Criteria Design Gravity Snow/Live Load = 75 lbs/ft², Dead Load = 12 psf
Design Wind Load: Vult = 112 mph; Exposure B Risk Category II
*Wind loads exceed seismic loads and therefore govern the design

Field observations identified the following conditions:

The new solar panels will impose an additional dead load of approximately 3 psf. Array #1, #2, #3 & #4 roofs consists of asphalt shingles over plywood sheathing supported by 2x6 trusses at 24" o.c. The trusses are sloped at a 30° pitch and have a maximum projected horizontal span of 28'-0" (±). The framing is assumed to be Douglas Fir #2 graded or better.

The calculations determined that the existing framing has adequate capacity to support the PV panels as shown in our PV panel layout plan with no structural upgrades required. All loading cases prescribed within the building code were used during analysis, including unbalanced snow loads and snow drifts. I therefore certify that this installation complies with the applicable codes and is acceptable for approval. Please feel free to contact me if you have any questions or concerns.

Best,

A handwritten signature in black ink that reads "Patrick Bussett".



Patrick Bussett, PE
Email: patrick.bussett@venturesolar.com

***It is a violation of law for any person, unless acting under direction of a licensed professional, to alter this item. If altered, the professional must attach "altered by" with a seal, signature, date, and description of the alteration.*

4A-5

2026-21
\$104,60



Please post in a conspicuous location

TOWN OF TROY, NH

PERMIT TO PERFORM WORK

PURSUANT TO RSA 154

Ron + Maria Cormier has been

Issued Permit No. 2026-21, to erect (X), alter (),

2nd story porch added to plan, drawing attached

Original permit # 2026-07

at: 354 Richmond Road Tax Map 29 Lot 1

Date

Authority Having Jurisdiction

Expiration Date

This document must be completed and returned to the Administrative Assistant with all applicable signatures upon completion of work.

Please see reverse side for required signoffs upon completion.

Please remember that buildings or portions of buildings shall not be occupied during construction, repair, or alteration without the approval of the appropriate authority.



2026-21
\$104,60

Please post in a conspicuous location

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Town of Troy Permit Application
16 Central Square
Troy, NH. 03465
(603)242-7722

N Permit # 2026-21
Permit fee \$104.60

Property Information-Where improvements are proposed

Street # 354 Street Name RICHMOND RD Map/Lot 29/1
Zoning Rural Floodplain _____ Wetlands _____ Elevation Certification _____

Is this property a conforming lot? _____

(Please see Zoning Ordinance or contact the Selectmen's Office for clarification)

Owner Information-Who owns the property

Name: RON + MARIA CORNIER Address: SAME
City/State/Zip: _____
Phone # _____ Email: _____

Applicant Information-If not the owner of the property

Name: _____ Address: _____
City/State/Zip: _____
Phone # _____ Email: _____
Name of Contact for this Project: _____ Phone: _____

Applicant Information-Describe proposed improvements

Permit Type: ☐ Building ☐ Electrical ☐ Plumbing ☐ Other PORCH ADDED TO PLAN

Building Use: ☐ Single family ☐ Multi-Family ☐ Commercial ☐ Other _____

Work Type: New ☐ Addition ☐ Renovation ☐ Move ☐ Other Sq. Ft. of work to be done: 256

Description of work: 2ND STORY PORCH ADDED TO PLAN. DRAWING ATTACHED

ORIGINAL PERMIT # 2026-07 4.16.26

Plumbing and Electrical sub-contractors-Signature indicates responsibility for compliance with laws and codes

Electrical contractor-State License Number: _____ Exp. Date: _____
Name: _____ Address: _____
City/State/Zip: _____
Phone # _____ Email: _____
License Holders Signature: _____ Date: _____

Plumbing Contractor- State License Number: _____ Exp. Date: _____
Name: _____ Address: _____
City/State/Zip: _____
Phone # _____ Email: _____
License Holders Signature: _____ Date: _____

Heating and Air Conditioning Contractor- State License Number:

Exp. Date: _____

Name: _____ Address: _____

City/State/Zip: _____

Phone # _____ Email: _____

License Holders Signature: _____ Date: _____

Design Professional-Responsible Architect or Engineer

Name: _____ Address: _____

City/State/Zip: _____

Phone # _____ Email: _____

Please note the following by checking the appropriate lines:

This property is to be hooked up with _____ Town water and/or _____ Town Sewer.

OR

This property will be hooked up to _____ private well and/or _____ septic.

☒ **I-C**

I hereby certify that as the applicant for permit, I am the owner of this property __, or the owner's authorized agent __ (check one). I hereby declare that the statements and information contained in this application and submitted in conjunction with said application are true and accurate to the best of my knowledge. I understand that I am responsible to ensure all construction or other work will be completed in accord with all Federal, State and Local Laws, code and ordinances, including but not limited to the State Building Code NHRSA 155-A. **I understand that I am responsible to ensure that all inspections will be completed as required by the Town, and no structure will be used in violation of Federal, State, and Local Laws, code and ordinances.** The making of false statement on this form shall constitute a criminal offense.

Applicant printed name: Ronald A. Cormier

Applicant signature: [Signature] Date: 8-4-26

BUILDING PERMIT FEES & INFORMATION

1. Major Requirements for Permits:

- a. All Zoning Ordinance requirements must be met.
- b. Must have State permit for septic systems or file an application for a Town Sewer connection.
- c. Approved Driveway permit from Town
- d. Three (3) sets of building plans and plot plans showing location and setbacks of project.
- e. Must establish drinking water source. (Private well or Town water). A copy of the water source plan is required with application.
- f. Floodplain
- g. Elevation certification.
- h. American Disability Association compliance-if applicable.

2. Inspections: It is the responsibility of the owner to insure inspections are completed on time. See attached Building Inspection Schedule and Criteria.

THE FOLLOWING ITEMS DO NOT REQUIRE INSPECTION:

Meaning but not limited to replacement parts, fences less than six feet, like and kind replacement, painting, papering, tiling, reroofing, residing, carpet, toilets, faucets, and similar work. The following items do not require permit but must meet New Hampshire Emergency code: Reroofing residing, replacement doors and windows or emergency egress windows and doors, electrical meters(contact local electric company to clarify).

To contact inspectors, please call the following:

Fire Chief: Mark Huntoon 603-499-2051

Building Inspector: Mike Mastaler 603-499-1068 or BuildingCode@Troy.NH.Gov

The Town of Troy currently contracts with an individual to perform inspections on an as needed/wanted basis. The staff at Town Hall will contact the Building Inspector to schedule visits, as needed.

Permits for new construction of homes, additions, garages and barns require at least 4 inspections. These inspections are paid for by the building permit applicant at a rate of \$50 per hour for both the inspection itself and travel time, as well as mileage at the current IRS reimbursement rate (\$0.725 as of June 2026). ***Should your inspection fall on the same day as another in Town, the cost for travel will be split amongst the inspection appointments that day.***

The Four Inspections Required, At Minimum, Are As Follows:

- 1) Ground, drainage and foundation inspection
- 2) Rough framing, rough electrical and rough plumbing
- 3) Insulation inspection
- 4) A final inspection for the Certificate of Occupancy

****Failure to adhere to these inspection requirements or the direction of the Building Inspector, Code Enforcement Officer, or Fire Chief could delay the issuance of a Certificate of Occupancy.****

To inquire about building permits or building inspections,
please contact the Selectmen's Office at 603-242-7722 Ext. 1
or you can e-mail the Building Inspector directly: BuildingCode@Troy.NH.Gov

TROY SELECT BOARD:

Jody McDermott, Chair

Richard H. Thackston, III, Selectman

TJ Chasse, Selectman

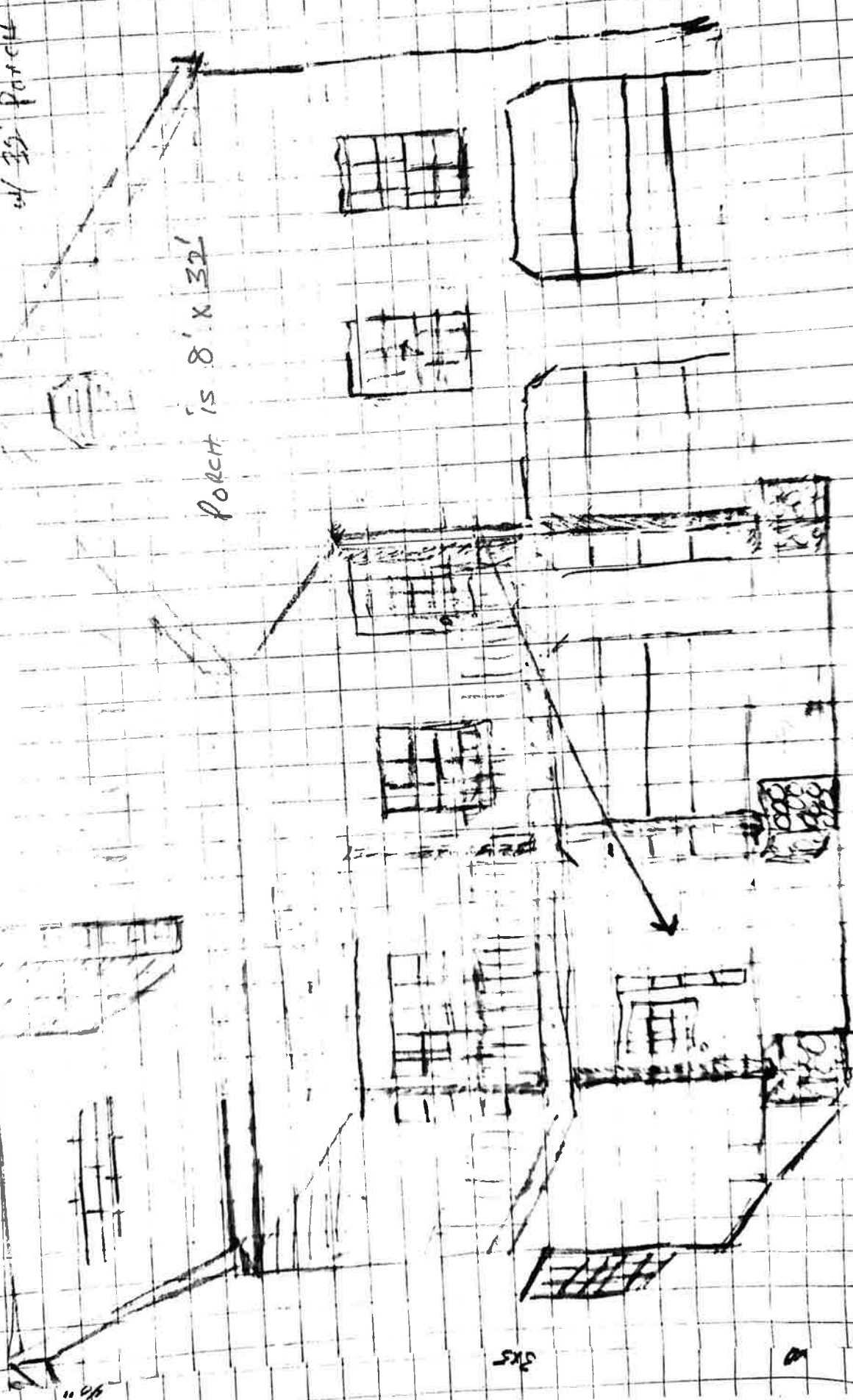
Permit fees are as follows:

New Construction – Manufactured or Modular	\$0.15 per square foot
New Construction – Stick Built	\$0.20 per square foot
Outbuildings/Carports/Decks/Porches/Sheds (Does not include temporary = six months or less.)	Up to 200 square feet, no permit required. 200 square feet and over = \$35.00 plus \$0.35 per square foot thereafter, and permit required.
Fences	\$35.00
Pools	\$35.00
Barns/Garages/Additions	\$0.20 per square foot
New Commercial up to 2000 square feet	\$0.25 per square foot
New Commercial over 2000 square feet	\$0.35 per square foot
New Multifamily	\$0.35 per square foot
Solar/Wind or Generator	Residential \$0.00 Commercial \$45.00
Reinspections	\$50.00
Addition or deletion of a kitchen or bathroom (Does not apply to renovation of existing kitchens or bathrooms.)	\$50.00
Addition, deletion, or substantial modification of the foundation of an existing building (Does not include sill repairs, under pinning, repair, drainage, buttressing, walk-ways, stoops, bulkheads, driveways or patios.)	\$0.20 per square footage of a project area
Significant changes to previously submitted open permits (Significant for this purpose would be the addition or deletion of more than 200 square feet and addition or deletion of a kitchen or bathroom. Additionally, applicant is still responsible for difference in original calculated permit fee.)	\$50.00
Approved additional Dwelling Unit to be added to an existing property either by modification or addition	\$0.20 per square foot
Addition of an electrical meter (Does not include replacement or upgrade of existing meters or conversion from single phase to three phase service.)	\$50.00
Extension of any existing open permit for one-year. (All permits expire one year from date of issue. No permit may be extended more than twice for a total of three years on one application. If a permit remains open and the project remains incomplete at the expiration of permits all work must cease on the project until such time as a new permit is issued. If a permit has been extended twice and the project remains incomplete, a new application must be submitted to confirm that the project remains within the current regulations.)	\$50.00
Final Inspection Fee (Any permit that requires inspection that has not received a final inspection and sign off will be considered open and active until expiration. Individuals authorized to sign off on permits: Fire Chief, Building Inspector that is authorized or designated by the Select Board, or any two members of the Select Board.)	\$50.00

Electrical/Plumbing/Mechanical is included in all other permits.

Front Elevation
w/ 32' Porch

porch is 8' x 32'



3x5



Please post in a conspicuous location

2025-47 2026-07
\$595.80
PAID

TOWN OF TROY, NH

PERMIT TO PERFORM WORK

PURSUANT TO RSA 154

Ronald + Maria Cormier has been

Issued Permit No. 2026-07, to erect (), alter (X),

See attached permit

at: 354 Richmond Road Tax Map 29 Lot 1

4/16/26
Date

Jody L. McDermott
Authority Having Jurisdiction

4/16/27
Expiration Date

This document must be completed and returned to the Administrative Assistant with all applicable signatures upon completion of work.

Please see reverse side for required signoffs upon completion.

Please remember that buildings or portions of buildings shall not be occupied during construction, repair, or alteration without the approval of the appropriate authority.

April 16th 2026

In New Hampshire, living space (or Gross Living Area - GLA) must be finished, heated, and abide by building codes, typically requiring a minimum 7-foot ceiling height and, for bedrooms, specific egress windows. Habitable rooms usually require a minimum 70 sq ft area and at least 7 feet of horizontal dimension, with specialized requirements for accessory dwelling units (ADUs).

Key Requirements for Living Space in NH:

- **Heating & Finished State:** Space must be finished (walls, floor, ceiling) and heated by a permanent, conventional system (forced air, radiant, etc.). Portable heater usage does not qualify.
- **Ceiling Height:** Generally, 7 feet or higher. For sloped ceilings, 50% of the area must be at least 7 feet high, and no part under 5 feet is typically included.
- **Accessibility & Safety:** Rooms must be accessible from the main house (not through another bedroom) and, if used as a bedroom, require an emergency exit (egress).
- **The current dwelling, has a total of 912 sq. ft. which satisfy the RSA requirements for living quarters.**
- **We are asking for a transfer to ADU Status of the present living quarters so that we can build a much larger New Primary Dwelling above the garage which was approved in 2025. This would effectively amend permit 2025-47**

Respectfully,

Ron Cormier



TOWN OF TROY, NH
Tax Abatement

4B-1

1072

To the Collector of Taxes:

Sir: By vote of the Board of {Assessors/Selectmen} upon the application of the following:

Name/Parcel Owner: Public Service of NH

Map/Lot: 007-024 Parcel Description/Location: 211 MONADNOCK ST

Mailing Address: PO Box 270 Hartford CT 06141

We have abated the amount of \$ 0.35 for the year 2026

Cause of Abatement: STATE EDUCATION AMOUNT - EXEMPTED

Per Order,

Assessors - Selectmen

Date: _____ 20____

White Copy - Tax Collector

Pink Copy - Selectmen

Yellow Copy - Owner

Town of Troy
Total Due for PUBLIC SERVICE COMPANY OF NH

Interest as of 7/7/2026

Includes Only Unpaid Invoices

Current Owner	Warrant	PID	Location	Per Diem	Principal	Int/Pen	Amount Due
PUBLIC SERVICE COMPANY OF NH	2026P01011603	000007 000024 000000	211 MONADNOCK ST	\$ 0.0001	\$ 0.35	\$0.00	\$0.35
PUBLIC SERVICE COMPANY OF NH	2026P01011602	000005 000027 000000	33 GAP MOUNTAIN RD	\$ 0.0053	\$ 24.00	\$0.00	\$24.00
Totals :				\$ 0.0054	\$ 24.35	\$0.00	\$24.35

Remit To		2026 TROY PROPERTY TAX – BILL 1 OF 2			
Town of Troy 16 Central Square PO Box 249 Troy, NH 03465 Temp - Return Service Requested		PUBLIC SERVICE COMPANY OF NH			
		Map	Lot	Sub	Net Value
		000007	000024	000000	\$ 777
		Property Location			Acres
8% APR Charged After 07/23/2026		211 MONADNOCK ST		17.800	
Billed To		Invoice		Summary of Taxes	
PUBLIC SERVICE COMPANY OF NH PO BOX 270 HARTFORD, CT 06141-0270 <i>ind.</i>		2026P01011603		First Bill: \$ 8.00	
		Billing Date			
		06/12/2026		- Abated/Paid: \$ 0.00	
		Payment Due Date		- Vet. Credits: \$ 0.00	
		07/23/2026			
		Amount Due:		\$ 8.00	
		Amount Enclosed:			

Please return top copy with your payment.

Tax Collector Office Hours		2026 TROY PROPERTY TAX – BILL 1 OF 2			
Town of Troy M,W 8:30-4:30; Tu 7:30-3:30P; Th 11-7P; Fr 9-1 Fri 9-1pm or pay @ nhtaxkiosk.com 603-242-3845 Tax Collector: Christina Howells		PUBLIC SERVICE COMPANY OF NH			
Map	Lot	Sub	Pg-Line		
000007	000024	000000	0116-03		
Property Location			Acres		
211 MONADNOCK ST			17.800		

Tax Rates		Assessments		Invoice		Summary Of Taxes	
County:	\$ 1.22	Taxable Land:	777	2026P01011603		First Bill: \$ 8.00	
School:	\$ 4.51	Buildings:	0	Billing Date			
Town:	\$ 4.45	Total:	777	06/12/2026		- Abated/Paid: \$ 0.00	
State Education:	\$ 0.58			Payment Due Date		- Vet. Credits: \$ 0.00	
Taxable Land Includes Current Use				07/23/2026			
				Interest Rate		Amount Due:	
				8% APR After 07/23/2026		\$ 8.00	

Total Tax Rate:	\$ 10.76⁺	Net Value:	777
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Keep this copy for your records. + 1st Bill Rate=1/2 Last Year's Final Rate

(.45)
pay 8.0
7.65

Billed To		2026 TROY PROPERTY TAX -- BILL 1 OF 2					
PUBLIC SERVICE COMPANY OF NH PO BOX 270 HARTFORD, CT 06141-0270		PUBLIC SERVICE COMPANY OF NH					
Map	Lot	Sub	Pg-Line				
000007	000024	000000	0116-03				
Property Location			Acres				
211 MONADNOCK ST			17.800				
Tax Rates		Assessments		Invoice		Summary Of Taxes	
County:	\$ 1.22	Taxable Land:	777	2026P01011603		First Bill: \$ 8.00	
School:	\$ 4.51	Buildings:	0	Billing Date			
Town:	\$ 4.45	Total:	777	06/12/2026		- Abated/Paid: \$ 0.00	
State Education:	\$ 0.58			Payment Due Date		- Vet. Credits: \$ 0.00	
Taxable Land Includes Current Use				07/23/2026			
				Interest Rate		Amount Due:	
				8% APR After 07/23/2026		\$ 8.00	
Total Tax Rate:		\$ 10.76		Net Value:		777	

TOWN OF TROY, NH
Tax Abatement

1073

To the Collector of Taxes:

Sir: By vote of the Board of {Assessors/Selectmen} upon the application of the following:

Name/Parcel Owner: Public Service of NH

Map/Lot: 005-027 Parcel Description/Location: 33 GAP MOUNTAIN Rd

Mailing Address: PO Box 270 HARTFORD, CT 06141

We have abated the amount of \$ 24.00 for the year 20 26

Cause of Abatement: STATE Education Amount - Exemption

Per Order,

Assessors - Selectmen

Date: _____ 20 _____

White Copy - Tax Collector

Pink Copy - Selectmen

Yellow Copy - Owner

Town of Troy
Total Due for PUBLIC SERVICE COMPANY OF NH

Interest as of 7/7/2026

Includes Only Unpaid Invoices

Current Owner	Warrant	PID	Location	Per Diem	Principal	Int/Pen	Amount Due
PUBLIC SERVICE COMPANY OF NH	2026P01011603	000007 000024 000000	211 MONADNOCK ST	\$ 0.0001	\$ 0.35	\$0.00	\$0.35
PUBLIC SERVICE COMPANY OF NH	2026P01011602	000005 000027 000000	33 GAP MOUNTAIN RD	\$ 0.0053	\$ 24.00	\$0.00	\$24.00
Totals :				\$ 0.0054	\$ 24.35	\$0.00	\$24.35

Remit To		2026 TROY PROPERTY TAX -- BILL 1 OF 2			
Town of Troy 16 Central Square PO Box 249 Troy, NH 03465 Temp - Return Service Requested		PUBLIC SERVICE COMPANY OF NH			
		Map	Lot	Sub	Net Value
		000005	000027	000000	\$ 41,400
		Property Location			Acres
8% APR Charged After 07/23/2026		33 GAP MOUNTAIN RD			2.290
Billed To		Invoice		Summary of Taxes	
PUBLIC SERVICE COMPANY OF NH PO BOX 270 HARTFORD, CT 06141-0270		2026P01011602		First Bill: \$ 445.00	
		Billing Date			
		06/12/2026		- Abated/Paid: \$ 0.00	
		Payment Due Date		- Vet. Credits: \$ 0.00	
		07/23/2026			
		Amount Due:		\$ 445.00	
		Amount Enclosed:			

Please return top copy with your payment.

Tax Collector Office Hours		2026 TROY PROPERTY TAX -- BILL 1 OF 2			
Town of Troy M,W 8:30-4:30; Tu 7:30-3:30P; Th 11-7P; Fr 9-1 Fri 9-1pm or pay @ nhtaxkiosk.com 603-242-3845 Tax Collector: Christina Howells		PUBLIC SERVICE COMPANY OF NH			
		Map	Lot	Sub	Pg-Line
		000005	000027	000000	0116-02
		Property Location			Acres
		33 GAP MOUNTAIN RD			2.290

Tax Rates		Assessments		Invoice		Summary Of Taxes	
County:	\$ 1.22	Taxable Land:	41,400	2026P01011602		First Bill: \$ 445.00	
School:	\$ 4.51	Buildings:	0	Billing Date			
Town:	\$ 4.45	Total:	41,400	06/12/2026		- Abated/Paid: \$ 0.00	
State Education:	\$ 0.58			Payment Due Date		- Vet. Credits: \$ 0.00	
				07/23/2026			
				Interest Rate		Amount Due:	
				8% APR After 07/23/2026		\$ 445.00	

incl. state ed

Total Tax Rate:	\$ 10.76⁺	Net Value:	41,400
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Keep this copy for your records. + 1st Bill Rate=1/2 Last Year's Final Rate

< 24.01
420.99

Billed To		2026 TROY PROPERTY TAX -- BILL 1 OF 2					
PUBLIC SERVICE COMPANY OF NH PO BOX 270 HARTFORD, CT 06141-0270		PUBLIC SERVICE COMPANY OF NH					
		Map	Lot	Sub	Pg-Line		
		000005	000027	000000	0116-02		
		Property Location			Acres		
		33 GAP MOUNTAIN RD			2.290		
Tax Rates		Assessments		Invoice		Summary Of Taxes	
County:	\$ 1.22	Taxable Land:	41,400	2026P01011602		First Bill: \$ 445.00	
School:	\$ 4.51	Buildings:	0	Billing Date			
Town:	\$ 4.45	Total:	41,400	06/12/2026		- Abated/Paid: \$ 0.00	
State Education:	\$ 0.58			Payment Due Date		- Vet. Credits: \$ 0.00	
				07/23/2026			
				Interest Rate		Amount Due:	
				8% APR After 07/23/2026		\$ 445.00	

Total Tax Rate:	\$ 10.76	Net Value:	41,400
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pay 421.00

TOWN OF TROY, NH
Tax Abatement

4B-2 1075

To the Collector of Taxes:

Sir: By vote of the Board of {Assessors/Selectmen} upon the application of the following:

Name/Parcel Owner: GARY Phelps

Map/Lot: 013-031 Parcel Description/Location: 218 South St.

Mailing Address: 218 South Main St Troy

We have abated the amount of \$ 491.00 for the year 2026

Cause of Abatement: ABATE \$491.00 error in Elderly
Exemption BIRTH date Exemption was
60,000 off Assessed Value. S/B #126,000

Per Order,

Assessors – Selectmen

Date: _____ 20____

Remit To		2026 TROY PROPERTY TAX – BILL 1 OF 2			
Town of Troy 16 Central Square PO Box 249 Troy, NH 03465 Temp - Return Service Requested		PHELPS, GARY C			
		Map	Lot	Sub	Net Value
		000013	000031	000000	\$ 80,500
		Property Location			Acres
		218 SOUTH MAIN ST			4.800
8% APR Charged After 07/23/2026		Invoice		Summary of Taxes	
		2026P01011206		First Bill: \$ 866.00	
Billed To		Billing Date			
PHELPS, GARY C 218 SOUTH MAIN STREET TROY, NH 03465		06/12/2026		- Abated/Paid: \$ 0.00	
		Payment Due Date		- Vet. Credits: \$ 375.00	
		07/23/2026			
		Amount Due:		\$ 491.00	
		Amount Enclosed:			

Please return top copy with your payment.

Tax Collector Office Hours		2026 TROY PROPERTY TAX – BILL 1 OF 2			
Town of Troy M,W 8:30-4:30;Tu 7:30-3:30P;Th 11-7P; Fr 9-1 Fri 9-1pm or pay @ nhtaxkiosk.com 603-242-3845 Tax Collector: Christina Howells		PHELPS, GARY C			
		Map	Lot	Sub	Pg-Line
		000013	000031	000000	0112-06
		Property Location			Acres
		218 SOUTH MAIN ST			4.800

Tax Rates		Assessments		Invoice		Summary Of Taxes	
County:	\$ 1.22	Taxable Land:	47,800	2026P01011206		First Bill: \$ 866.00	
School:	\$ 4.51	Buildings:	92,700	Billing Date			
Town:	\$ 4.45	Total:	140,500	06/12/2026		- Abated/Paid: \$ 0.00	
State Education:	\$ 0.58			Payment Due Date		- Vet. Credits: \$ 375.00	
				07/23/2026			
				Interest Rate		Amount Due: \$ 491.00	
				8% APR After 07/23/2026			

S/B 120,000

ELD 60,000

Total Tax Rate:	\$ 10.76 ⁺	Net Value:	80,500
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Keep this copy for your records.

+ 1st Bill Rate=1/2 Last Year's Final Rate

S/B 20,500

Billed To		2026 TROY PROPERTY TAX – BILL 1 OF 2			
PHELPS, GARY C 218 SOUTH MAIN STREET TROY, NH 03465		PHELPS, GARY C			
		Map	Lot	Sub	Pg-Line
		000013	000031	000000	0112-06
		Property Location			Acres
		218 SOUTH MAIN ST			4.800
Tax Rates		Assessments		Invoice	
County:	\$ 1.22	Taxable Land:	47,800	2026P01011206	
School:	\$ 4.51	Buildings:	92,700	Billing Date	
Town:	\$ 4.45	Total:	140,500	06/12/2026	
State Education:	\$ 0.58			Payment Due Date	
				07/23/2026	
				Interest Rate	
				8% APR After 07/23/2026	
				Amount Due: \$ 491.00	

Total Tax Rate:	\$ 10.76	Net Value:	80,500
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Gary Phelps

Incorrect	Correct
140,500.00	140,500.00
(60,000.00)	(120,000.00)
80,500.00	20,500.00
80.50	20.50
21.52	21.52
1,732.00	441.00
(750.00)	(750.00)
982.00	(309.00)
491.00	(154.50)
15	510



Town of Troy, TTF

PTMA Financial Solutions
2135 City Gate Lane
7th Floor
Naperville, IL 60563
Phone: 630-657-6400
Fax: 630-718-8701

Monthly Activity Summary

6/1/2026 - 6/30/2026

Class	Account	Beginning Balance	Contributions	Dividends YTD	Dividends	Withdrawals	Month End Balance
LIQ	NH01-10384-0001 REASSESSMENT RESERVE	\$71,980.21	\$0.00	\$1,297.10	\$217.39	\$0.00	\$72,197.60
LIQ	NH01-10384-0002 HIGHWAY DEPT	\$151,729.93	\$0.00	\$2,807.51	\$458.24	\$0.00	\$152,188.17
LIQ	NH01-10384-0003 FIRE DEPT	\$227,432.39	\$0.00	\$4,098.18	\$686.85	\$0.00	\$228,119.24
LIQ	NH01-10384-0004 POLICE DEPT	\$40,888.77	\$0.00	\$736.84	\$123.49	\$0.00	\$41,012.26
LIQ	NH01-10384-0005 TOWN BLDGS & REPAIRS	\$67,025.29	\$0.00	\$1,231.26	\$202.47	\$0.00	\$67,227.76
LIQ	NH01-10384-0007 INDUSTRIAL DEV	\$157.88	\$0.00	\$3.62	\$0.60	\$0.00	\$158.48
LIQ	NH01-10384-0012 SP WAR MEM TRUST	\$34,492.68	\$0.00	\$621.58	\$104.19	\$0.00	\$34,596.87
LIQ	NH01-10384-0013 AMBULANCE CAP.RESV.	\$144,959.96	\$0.00	\$2,612.12	\$437.73	\$0.00	\$145,397.69
LIQ	NH01-10384-0014 CEM MAINT EXP TRUST FUND	\$161.88	\$0.00	\$3.93	\$0.60	\$0.00	\$162.48
LIQ	NH01-10384-0015 GAYKIMBALL LIB EXP TRUST FUND	\$20,122.25	\$0.00	\$362.57	\$60.77	\$0.00	\$20,183.02
LIQ	NH01-10384-0017 EMERG MGT EXPENDABLE TR FUND	\$3,364.72	\$0.00	\$60.59	\$10.20	\$0.00	\$3,374.92
LIQ	NH01-10384-0018 HIGHWAY & STREETS CRF	\$95,092.28	\$0.00	\$2,005.27	\$287.17	\$0.00	\$95,379.45

Class	Account	Beginning Balance	Contributions	Dividends YTD	Dividends	Withdrawals	Month End Balance
LIQ	NH01-10384-0019 COMPUTER EXPENDABLE TR FUND	\$11,057.98	\$0.00	\$199.31	\$33.36	\$0.00	\$11,091.34
LIQ	NH01-10384-0020 TROY WATER/SEWER	\$91,816.95	\$0.00	\$1,654.50	\$277.27	\$0.00	\$92,094.22
LIQ	NH01-10384-0021 TROY ANNIVERSARY EXPENDABLE TR	\$0.53	\$0.00	\$0.00	\$0.00	\$0.00	\$0.53
LIQ	NH01-10384-0022 Town of Troy FBO TTF, Demo, Repair of Bldgs Expendable Trust Fund	\$13,573.19	\$0.00	\$244.65	\$40.98	\$0.00	\$13,614.17
LIQ	NH01-10384-0023 Town of Troy FBO TTF, Conservation Capital Reserve Fund	\$18,623.03	\$0.00	\$335.68	\$56.24	\$0.00	\$18,679.27
		\$992,479.92	\$0.00	\$18,274.71	\$2,997.55	\$0.00	\$995,477.47

Highway Department:

HP Pro Desk 4 Mini, 16 GB RAM, 512 GB SSD- \$1,169

To replace their 2018 desktop (very slow!!)

Finance:

HP Elite Mini 800 G9, 32 GB RAM, 1 TB SSD- \$1,219

To replace their 2019 PC

Treasurer:

Lenovo ThinkPad 16", 16 GB RAM, 512 GB SSD- \$1,269

We haven't had a Town PC for this position, they've used their own personal computers in the past

TOTAL: \$3,657

Current Computer Technology ETF Balance:

\$11,091

\$16,590 with the \$5,500 yet to be transferred in from 2026 Town Meeting funding

Appendix B

Devices	Purchase Date	Serial Number
Printer.30		3CE03984
Printer.116		QNN00595
ASSISTANT-LT	7/15/2021	130TLF3
ASSISTANT-PC	3/23/2019	G6BN851001WF
Canon3932CC		4HU10873
Canon603564		4LM01045
CLERK-PC	6/7/2018	USH818L0TS
Fir-NUC02	12/14/2022	G6PA2350081H
FIREOI-NUC	12/14/2022	G6PA24200J17
HIGHWAY	4/9/2018	UDP01AA660811001B00100
HIGHWAY-LT	3/9/2024	1YW8424
HP LaserJet M402n		PHBHL70571
HP OfficeJet Pro 6978 All-		TH8CL2P0GF
In-One HP617100		TH122280K1
HPB05ADA222142		TH58L4T16005ZF
LANDUSEI-LT	4/10/2025	PF58Y25X
LENOVOI-LT	2/6/2024	PF4VFYAQ
OFFICER0I-NUC	3/23/2019	G6BN851000VN
OFFICER0I-PC	8/25/2025	8CC5111HS2
OFFICER02-NUC	3/23/2019	G6BN84900NA6
OFFICER03-N UC	3/23/2019	G6BN85100112
PLANNINGBOARD-LT	7/14/2021	55MSLF3
RECEPTION0I-DT	5/25/2024	MJ0KVNTV
Troy Fire Dept Firewall	4/21/2023	18C2411C03EO
Troy TH Firewall	3/16/2023	18C241108430
Tax-PC	7/6/2019	G6BN9040016H

TownAdmin-LT	3/26/2023	PF45YSHQ
TownClerkTaxCollector	8/6/2024	8PNP044
Troy PD Firewall	1/15/2020	18B169F10848
TPD-IMC	5/1/2022	MJ0HMQBG
TroyPDAZDC	7/12/2023	6293-2729-4824-9604-
		5301-2624-43
Troy Water Dept Firewall	4/24/2023	18C2411BF310
TWS-Laptop	1/1/2020	CND0291Y1C
WATERPC-HP	5/4/2024	MXL9181R4Y
WELFARE-LT	2/1/2025	PF58NFDF



NH PDIP Monthly Statement

Town of Troy, TTF

Please Note:

THE FUND WILL BE CLOSED JULY 3RD IN OBSERVANCE OF THE
INDEPENDENCE DAY HOLIDAY

Activity Summary (NH01-10384-0019) COMPUTER EXPENDABLE TR FUND

6/1/2026 - 6/30/2026

Investment Pool Summary		LIQ
Beginning Market Balance		\$11,057.98
Dividends YTD		\$199.31
Dividends		\$33.36
Purchases		\$0.00
Redemptions		\$0.00
Ending Market Balance		\$11,091.34
Average Monthly Rate		3.674%
NAV / Share Price		1.00
Total		\$11,091.34
Total Fixed Income		\$0.00
Account Total		\$11,091.34

Town of Troy, TTF
16 Central Square P.O. Box 249
Troy, NH 03465-2622



QUOTE

11 King Court, Unit 1W • Keene, NH 03431
(603) 358-6776 • www.wwcs.com

DATE	QUOTE #
7/22/2026	Q20260483

NAME/ADDRESS
Town of Troy PO Box 249 Troy, NH 03465

DESCRIPTION	QTY	PRICE EACH	TOTAL
New PC for Treasurer			
HP ProDesk 4 Mini Desktop - 16 GB RAM - 512 GB SSD	1	1,169.00	1,169.00
24" LED Monitor 2x HDMI 1x DP	1	105.00	105.00
Lenovo ThinkPad 16" Touchscreen Notebook - 16 GB - 512 GB SSD	1	1,269.00	1,269.00
Shipping Billed as Incurred			
Labor Billed as Incurred			
TOTAL			\$2,543.00

Date _____

Signature _____



QUOTE

DATE	QUOTE #
7/8/2026	Q20260478

11 King Court, Unit 1W • Keene, NH 03431
(603) 358-6776 • www.wwcs.com

Finance PC

NAME/ADDRESS
Town of Troy PO Box 249 Troy, NH 03465

DESCRIPTION	QTY	PRICE EACH	TOTAL
HP Elite Mini 800 G9 Desktop PC - 32 GB RAM - 1 TB SSD	1	1,219.00	1,219.00
Shipping Billed as Incurred			
Labor Billed as Incurred			
TOTAL			\$1,219.00

Date _____

Signature _____



QUOTE

DATE	QUOTE #
7/23/2026	Q20260485

11 King Court, Unit 1W • Keene, NH 03431
(603) 358-6776 • www.wwcs.com

NAME/ADDRESS
Town of Troy PO Box 249 Troy, NH 03465

DESCRIPTION	QTY	PRICE EACH	TOTAL
Replacement for Highway PC HP ProDesk 4 Mini Desktop - 16 GB RAM - 512 GB SSD	1	1,169.00	1,169.00
Shipping Billed as Incurred			
Labor Billed as Incurred			
TOTAL			\$1,169.00

Date _____

Signature _____

C.W. Davis Construction

131 Quarry Rd
Troy, NH 03465
Cell (603) 209-6548
Cdavis78@msn.com

Invoice

July 7, 2026

Troy Water Sewer Department
151 Dort St.
Troy, NH 03465

Ref: Raising manhole structures

Date	Description	Total
	Monadnock Street, Mill Street and Marlborough Road 20 manhole structures raised	
	7 days with excavator at \$1,500.00 per day	\$10,500.00
	7 days with tool trailer at \$300.00 per day	\$2,100.00
	7 days with 1 ton truck and driver at \$350.00 per day	\$2,450.00
	3 moves with ramp truck @ \$100.00 per move	\$300.00
	170 total man hours at \$55.00 per hour	\$9,350.00
	Total due upon receipt	\$24,700.00

PDI P

APPROVED BY _____
DATE APPROVED _____
ACCT# _____ AMOUNT _____

C.W. Davis Construction

131 Quarry Rd
Troy, NH 03465
Cell (603) 209-6548
Cdavis78@msn.com

Invoice

June 28,2026

Town of Tory Water/Sewer Department
151 Dort St
Troy, NH 03465

Ref:

Date	Description	Total
	Route 12 water line replacement Paving route 12, Memorial Drive and South Main St.	
	3 days excavator @ \$1500.00 per day	\$4,500.00
	3 Days one ton @ \$350.00 per day	\$1,050.00
	3 days tool trailer @ \$300.00 per day	\$900.00
	2 moves @\$100.00 per move	\$200.00
	Labor 55 man hours @ \$55.00 per hour	\$2,805.00
	Hired dump truck for paving	\$977.50
	Total due upon receipt	\$10,432.50



NH PDIP Monthly Statement

Town of Troy, TTF

Please Note:
THE FUND WILL BE CLOSED JULY 3RD IN OBSERVANCE OF THE
INDEPENDENCE DAY HOLIDAY

Activity Summary (NH01-10384-0020) TROY WATER/SEWER

6/1/2026 - 6/30/2026

Investment Pool Summary		LIQ
Beginning Market Balance		\$91,816.95
Dividends YTD		\$1,654.50
Dividends		\$277.27
Purchases		\$0.00
Redemptions		\$0.00
Ending Market Balance		\$92,094.22
Average Monthly Rate		3.674%
NAV / Share Price		1.00
Total		\$92,094.22
Total Fixed Income		\$0.00
Account Total		\$92,094.22

Town of Troy, TTF
16 Central Square P.O. Box 249
Troy, NH 03465-2622



4D Town of Troy

16 Central Square - PO Box 249 - Troy, New Hampshire 03465

To Megan Conversano of Troy, NH 03465 in the County of Cheshire.

WHEREAS, there is a vacancy on the Capital Improvement Plan (CIP) Committee in said Town and whereas we, the subscribers have confidence in your ability and integrity to perform the duties of said office, we do hereby appoint you the said Megan Conversano a resident of said Town; and upon your taking of the oath of office, and having this appointment and the certificate of said oath of office recorded by the Town Clerk, you shall have the powers, perform the duties, and be subject to the liabilities of such office, until another person shall be chosen and qualified in your stead. Term is set to expire March 2027.

Given under our hands this 6th day of August 2026

On behalf of the Board of Selectmen, Troy, NH:

Jody McDermott, Chair

I, Megan Conversano, do solemnly swear that I will faithfully and impartially discharge and perform all the duties incumbent on me as a Capital Improvement Plan (CIP) Committee with a term set to expire March 2027. according to the best of my abilities, agreeably to the rules and regulations of the constitution and laws of the State of New Hampshire.

SO HELP ME GOD

STATE OF NEW HAMPSHIRE,

COUNTY, ss. Cheshire

Personally, appeared the above-named Megan Conversano who took and subscribed to the foregoing oath. Before me,

Date

Town Clerk

**Possible Dates: October 8th, 15th, 22nd
(Held previously on October 10, 2024, October 27, 2022, and October 22, 2020)**

From: [Troy Recreation](#)
To: [Town Administrator](#)
Subject: Re: Community Center Availability- October for Candidates Forum
Date: Tuesday, July 28, 2026 1:59:32 PM

4E

They are all open except the last Thursday of the month(halloween week).
Bob

On Tue, Jul 28, 2026 at 1:56 PM Town Administrator <townadmin@troy.nh.gov> wrote:

Hi Bob,

Do you know what you have for availability to use the community center on a Thursday evening in October?

Thank you.

Jeremy Bourgeois, MPA

Town Administrator

Troy, NH

603-242-7722 ext. 1

www.troy.nh.gov

****Please note the new e-mail address of townadmin@troy.nh.gov****

All communications to and from this email address may be subject to disclosure according to NH RSA 91-A

Confidentiality notice: This email transmission may contain confidential or legally privileged information that is intended only for the individual or entity named in the e-mail address. If you are not the intended recipient, you are hereby notified that any disclosure, copying, distribution, or reliance upon the contents of this e-mail is strictly prohibited. If you have received this e-mail transmission in error, please reply to the sender, so that arrangements can be made for proper delivery, and then please delete the message from your inbox.



~~tear out old driveway~~

Town of Troy 4F

16 Central Square - PO Box 249 - Troy, New Hampshire 03465

Road or Street: School Street

Date: 01 Jun 28

APPLICATION FOR DRIVEWAY PERMIT

\$50 Application Fee ☒ paid

Pursuant to the provisions of **Revised Statutes Annotated, Chapter 236, Section 13** (printed on reverse of application) and amendments thereto, and **Declaratory Ruling 2000-01**, permission is requested to: (circle one): **Construct / Alter** (Indicate quantity of) 1 driveway entrance(s) to my property on the (circle one): **North / South / East / West** side of **NH Route** or **Street/Road**: School Street In the **Town of Troy** at a location which will meet the requirements for safety specified in said statutes.

The driveway entrance(s) requested is (are) for access to: 47 School Street
Residence, Industry, Business, Subdivision, Other

0 Feet (circle one): **North / South / East / West** of Utility Pole Number: N/A
Feet or Miles (circle one): **North / South / East / West** of Road or Junction: N/A
Town Tax Map # Chatham 18 and Lot # 154

As the landowner (or designated applicant) I agree to the following:

1. To construct driveway entrance(s) only for the bonafide purpose of securing access to private property such that the highway right-of-way is used for no purpose other than travel.
2. To construct driveway entrance(s) at permitted location(s).
3. To construct driveway entrance(s) in accordance with statutes, rules, standard drawings, and permit specifications as issued by the New Hampshire Department of Transportation.
4. To defend, indemnify and hold harmless the New Hampshire Department of Transportation and Town of Troy and it's duly appointed agents and employees against any action for personal injury and/or property damage sustained by reason of the exercise of this permit.
5. To furnish and install drainage structures that are necessary to maintain existing highway drainage and adequately handle increased runoff resulting from the land development and obtain all easements thereto.
6. I am the owner or a duly authorized agent of the owner of the parcel upon which the driveway will be constructed. I have provided accurate and complete title and subdivision information concerning the parcel to the Department. I understand that the Department is relying on this information in considering this application and that the Department does not perform independent title research or make judgments about title or access disputes.

[Signature]
Signature of Landowner (Applicant)

47 School Street Troy, NH 03465
Mailing Address

Anthony Ceschi
Printed Name of Landowner

Troy NH 03465
Town/City, State, Zip Code

Date: 01 Jun 28 Telephone Number(s) 603 209 1227

Permission to construct a driveway, entrance, exit, approach adjoining School St pursuant to the location and specifications as described below, is hereby granted. Failure to adhere to the standards and engineering drawings previously submitted and failure to complete construction of said facility within one calendar year of the date of this permit shall render this instrument null and void. Facilities constructed in violation of these conditions shall be corrected immediately upon notification by a Department representative or the cost of removing said facility shall be fully borne by the owner.

Location:

1. This permit requires that the area adjacent to the highway be graded such that the surface will slope from the edge of pavement to a line 3 feet distant from and parallel to the pavement and 2 inches below the edge of pavement (for the entire frontage of the property,) which line will serve as a drainage gutter.
2. 1 driveway entrance(s) is (are) permissible, each not to exceed N/A feet in width. The driveway entrance(s) may be flared as they approach the pavement.
3. Other access to the highway from the premises is to be prevented by construction of a barrier or barriers, such as a grass plot, low hedge, curbed island, etc. The front face of this barrier island shall be N/A feet from the edge of pavement and the rear edge at the right-of-way line. No part of the right-of-way may be used for any purpose other than travel.
4. No structures, including buildings, permanent or portable signs, lights, displays, fences, walls, etc. shall be permitted on, over or under the highway right-of-way.
5. The highway right-of-way line is located 16 feet from and parallel to the centerline of highway pavement.
6. No parking, catering or servicing shall be conducted within the highway right-of-way.

By: [Signature] Road Agent
Department of Public Works and Highways

[Signature]
Select Board Chairman

§ 236:13 Driveways and Other Accesses to the Public Way. – I. It shall be unlawful to construct, or alter in any way that substantially affects the size or grade of, any driveway, entrance, exit, or approach within the limits of the right-of-way of any class I or class III highway or the state-maintained portion of a class II highway that does not conform to the terms and specifications of a written permit issued by the Commissioner of transportation.

II. Pursuant to this section, a written construction permit application must be obtained from and filed with the department of transportation by any abutter affected by the provisions of paragraph I. Before any construction or alteration work is commenced, said permit application shall have been reviewed, and a construction permit issued by said department. Said permit shall:

- (a) Describe the location of the driveway, entrance, exit, or approach. The location shall be selected to most adequately protect the safety of the traveling public.
- (b) Describe any drainage structures, traffic control devices, and channelization islands to be installed by the abutter.
- (c) Establish grades that adequately protect and promote highway drainage and permit a safe and controlled approach to the highway in all seasons of the year.
- (d) Include any other terms and specifications necessary for the safety of the traveling public.

III. For access to a proposed commercial or industrial enterprise, or to a subdivision, all of which for the purposes of this section shall be considered a single parcel of land, even though acquired by more than one conveyance or held nominally by more than one owner:

- (a) Said permit application shall be accompanied by engineering drawings showing information as set forth in paragraph II.
- (b) Unless all season safe sight distance of 400 feet in both directions along the highway can be obtained, the commissioner shall not permit more than one access to a single parcel of land, and this access shall be at that location which the commissioner determines to be safest. The commissioner shall not give final approval for use of any additional access until it has been proven to him that the 400-foot all season safe sight distance has been provided.

(c) For the purposes of this section, all season safe sight distance is defined as a line which encounters no visual obstruction between 2 points, each at a height of 3 feet 9 inches above the pavement, and so located as to represent the critical line of sight between the operator of a vehicle using the access and the operator of a vehicle approaching from either direction.

IV. No construction permit shall allow:

- (a) A driveway, entrance, exit, or approach to be constructed more than 50 feet in width, except that a driveway, entrance, exit, or approach may be flared beyond a width of 50 feet at its junction with the highway to accommodate the turning radius of vehicles expected to use the driveway, entrance, exit or approach.
- (b) More than 2 driveways, entrances, exits or approaches from any one highway to any one parcel of land unless the frontage along that highway exceeds 500 feet.

V. The same powers concerning highways under their jurisdiction as are conferred upon the commissioner of transportation by paragraphs I, II, III and IV shall be conferred upon the planning board in cities and towns in which the planning board has been granted the power to regulate the subdivision of land as provided in RSA 674:35, and they shall adopt such regulations as are necessary to carry out the provisions of this section. Such regulations may delegate administrative duties, including actual issuance of permits, to a highway agent, board of selectmen, or other qualified official or body. Such regulations, or any permit issued under them, may contain provisions governing the breach, removal, and reconstruction of stone walls or fences within, or at the boundary of, the public right of way, and any landowner or landowner's agent altering a boundary in accordance with such provisions shall be deemed to be acting under a mutual agreement with the city or town pursuant to RSA 472:6, II (a).

VI. The commissioner of transportation or planning board shall retain continuing jurisdiction over the adequacy and safety of every existing driveway, entrance, exit, and approach to a highway, whether or not such access was constructed or installed pursuant to a permit under this section, and, unless the access is a public highway, the owners of property to which the access is appurtenant shall have continuing responsibility for the adequacy of the access and any grades, culverts, or other structures pertaining to such access, whether or not located within the public right of way. If any such access is or becomes a potential threat to the integrity of the highway or its surface, ditches, embankments, bridges, or other structures, or a hazard to the safety of the traveling public, by reason of siltation, flooding, erosion, frost action, vegetative growth, improper grade, or the failure of any culvert, traffic control device, drainage structure, or any other feature, the commissioner of transportation or planning board or their designee may issue an order to the landowner or other party responsible for such access to repair or remove such hazardous condition and to obtain any and all permits required therefor. The order shall describe the hazard, prescribe what corrective action or alteration in the location or configuration of such access shall be required, and set a reasonable time within which the action shall be completed. Such an order shall be sent by certified mail, and shall be enforceable to the same extent as a permit issued under this section. If the order is not complied with within the time prescribed, the commissioner or planning board or their designee may cause to be taken whatever action is necessary to protect the highway and the traveling public, and the owner or other responsible party shall be civilly liable to the state or municipality for its costs in taking such action.

§ 236:14 Penalty. – Any person who violates any provision of this subdivision or the rules and regulations made under authority thereof shall be guilty of a violation if a natural person, or guilty of a misdemeanor if any other person; and, in addition, shall be liable for the cost of restoration of the highway to a condition satisfactory to the person empowered to give such written permission.

TROY BOARD OF SELECTMEN MEETING
THURSDAY, JULY 3, 2025, 6:00 P.M.
TOWN HALL

1 **Selectmen present:** Chairman Hopkins, Selectman Thackston, TJ Chasse

2
3 **Also present:** Town Administrator Jeremy Bourgeois, Courtney Davis, Harry Smith, Lisa
4 Rollins, Tony Cesolini

5
6 **Chairman Hopkins called the meeting to order at 6:00 p.m.**
7

8 **BOARD MEMBER COMMENTS**

9 **Chairman Hopkins:** Noted that the Planning Board had a very brief meeting on July 2nd, where
10 they continued to work on the update to the Master Plan. He mentioned that the Conservation
11 Commission has not held any meetings recently.
12

13 **Selectman Chasse:** Noted that the ZBA had a meeting and hearing on July 1st, which was
14 recessed until July 21st. He also mentioned that the Water and Sewer Commission has moved
15 their meetings to the Town Hall.
16

17 **Selectman Thackston:** He noted that the Budget Committee has a subcommittee looking at the
18 feasibility of a 10% reduction in the Town budget for 2026. He believes that much may be
19 unrealistic, unless the Town was considering a drastic cut in service levels. There is belief that a
20 change in the health insurance program offered could yield quite a bit of savings on its own
21 starting in 2026. He explained the breakdown of the town's tax rate and how a majority of it is
22 out of the town's control (county and school district budgets). An alternative to the Town taking
23 out a TAN (tax anticipation note) may be to borrow from itself by temporarily transferring funds
24 to alleviate the cash flow issue and immediately paying it back with interest once the second tax
25 bill payments come in. This can be explored this fall in order to save the Town the interest
26 payments due on a TAN.
27

28 **PUBLIC COMMENTS:**

29 Courtney Davis addressed the Board with his concerns of the condition of Quarry Road. He
30 stated that the road hasn't been graded in quite a few years and is becoming progressively worse.
31 He noted that he's spoken with the Road Agent about it previously. The Board replied that they
32 will follow-up with the Road Agent to get an update and determine when some work can be done
33 there.
34

35 **NEW BUSINESS**

36 **BOSTON POST CANE:**

37 Town Administrator Bourgeois notified the Board that a request has been received to award the
38 Town's Boston Post Cane for the oldest Town resident. The cane is currently displayed at the
39 Troy Historical Society. Mr. Bourgeois will reach out to coordinate a time to present the award
40 in the near future.
41

42 **TAX ABATEMENTS:**

43 The Board reviewed two tax abatement requests from the Tax Collector. They both would refund
44 the state education portion of the recent tax bill, which should not have been charged since it is
45 paid by Public Service of New Hampshire directly to the state.

MOTION to approve tax abatement #1042 for Map 5, Lot 27 in the amount of \$24.00, Selectman Thackston, **SECOND** by Selectman Chasse. **VOTES: 3-0-0.**

MOTION to approve tax abatement #1043 for Map 7, Lot 24 in the amount of \$0.30, Selectman Thackston, **SECOND** by Selectman Chasse. **VOTES: 3-0-0.**

BUILDING PERMITS:

Building permit #2025-29 for Map 18, Lot 125 is not needed and was passed on by the Board.

MOTION to approve building permit #2025-30 for Map 10, Lot 3, Selectman Thackston, **SECOND** by Selectman Chasse. **VOTES: 3-0-0.**

MOTION to approve building permit #2025-31 for Map 24, Lot 6B, Selectman Thackston, **SECOND** by Selectman Chasse. **VOTES: 3-0-0.**

INTENT TO CUT:

The Board reviewed an intent to cut application.

MOTION to approve the intent to cut application for Map 15, Lot 2 as submitted, Selectman Thackston, **SECOND** by Selectman Chasse. **VOTES: 3-0-0.**

ELDERLY EXEMPTION:

The Board reviewed an application for an elderly exemption.

MOTION to approve the elderly exemption for Map 12, Lot 39, Selectman Thackston, **SECOND** by Selectman Chasse. **VOTES: 3-0-0.**

OLD BUSINESS

TOWN COMMON PAINTING BIDS:

The Board reviewed the revised bids for the Town Common fencing and gazebo repainting. Mikayla's Cleaning Service submitted a revised bid for \$3,000 and RW Landscaping's revised bid was for \$10,300.

MOTION to award the bid for the Town Common fencing and gazebo repainting to Mikayla's Cleaning Service in the amount of \$3,000, Selectman Thackston, **SECOND** by Selectman Chasse. **VOTES: 3-0-0.**

2026 HEALTH INSURANCE:

Town Administrator Bourgeois asked the Board if they wanted additional information or to meet with the insurance agent as a next step. They indicated that meeting with the insurance agent would be helpful so they can get specific options in order to make a decision in a timely enough manner to notify all the employees of the change. He will try to schedule her to attend one of the August Board meetings.

DRIVEWAY PERMIT:

The Board reviewed driveway permits for Map 18, Lot 154.

The driveway permit application for Map 18, Lot 154 was discussed amongst the Board and the property owner, Mr. Cesolini. It was agreed that the work may continue but must adhere to the Town's driveway regulations and that the original driveway must be removed in the process.

MOTION to approve the driveway permit application for Map 18, Lot 154, Selectman Thackston, **SECOND** by Selectman Chasse. **VOTES: 3-0-0.**

IMPACT FEES:

Town Administrator Bourgeois stated that he was looking for direction on what the next step the Board would like to take regarding impact fees. After some brief discussion, it was agreed to take a deeper look at it at the second meeting in August.

MOTION to have the Board develop a plan for impact fees for a warrant article to be placed on the 2026 Town warrant, Selectman Thackston, **SECOND** by Selectman Chasse. **VOTES: 3-0-0.**

CONSENT AGENDA

MANIFEST:

MOTION to approve accounts payable and payroll payments for the following dates and amounts:

Payroll:

- 6/30/2025: \$21,616.93
- 7/7/2025: \$23,344.35

Accounts payable:

- 6/23/2025: \$20,035.87
- 6/26/2025: \$224,916.67
- 6/30/2025: \$200.00
- 7/2/2025: \$9,652.23

Selectman Thackston, **SECOND** by Selectman Chasse. **VOTES: 3-0-0.**

MINUTES:

MOTION to approve the June 19, 2025 public meeting minutes as submitted, Selectman Thackston, **SECOND** by Selectman Chasse. **VOTES: 2-0-1**, Selectman Chasse abstained.

MOTION to approve the June 19, 2025 non-public meeting minutes as submitted, Selectman Thackston, **SECOND** by Selectman Chasse. **VOTES: 2-0-1**, Selectman Chasse abstained.

BOARD CORRESPONDENCE:

The Town Administrator followed up with the Board regarding the Complete Streets grants available. HE noted that the Town applied for funding to do a Complete Streets implementation plan in 2021 but didn't accept the funds and follow through with that study. The Board stated that they would like to focus on the sidewalks of School Street, Dustin Street, and Thayer Avenue for now.

TROY BOARD OF SELECTMEN MEETING
THURSDAY, AUGUST 7, 2025, 6:00 P.M.
TOWN HALL

Selectmen present: Chairman Hopkins, Selectman Thackston, TJ Chasse

Also present: Town Administrator Jeremy Bourgeois, Diane Denoncourt- Health Insurance Agent with Access Health Insurance, Police Chief Dave Ellis, Matthew Whooley, Aaron Chancey, Eric Handy- Transfer Station Supervisor, John Coons- Road Agent

Chairman Hopkins called the meeting to order at 6:00 p.m.

BOARD MEMBER COMMENTS

Selectman Thackston: The status of the Town Common water fountain installation was inquired about. Town Administrator Bourgeois noted that he will follow up with the Water and Sewer department to check on that. The discoloration of water for residents was discussed, which had been a topic of conversation on the Town Facebook group. He asked about the multiple camera views when streaming a meeting at the Town Hall, which Mr. Bourgeois will inquire about with the meeting streaming company.

Selectman Chasse: He shared the quote received from Patriot Flags for the installation of new flag poles and solar lights for the triangle in front of Town Hall. It was noted that other companies were contacted but the Town didn't hear back from them. It was noted that there is a balance of about \$61,000 in the Town Buildings Expendable Trust Fund.

MOTION to approve the bid from Patriot Flags for three flag poles and lights in the amount of up to \$10,490 plus the cost of two additional lights, Selectman Thackston, **SECOND** by Selectman Chasse. **VOTES: 3-0-0.**

Chairman Hopkins: He announced that the Town Clerk/Tax Collector's Office is closed this week due to mandatory state training. They will be open on Saturday, August 9th from 9 am-1 pm. It was noted that word was received at the training that the Town's current accounts payable and general ledger software, BMSI, will be retired by the end of the year. The Planning Board met on August 6th, where they discussed aligning the Town ordinances to match up with new state RSA's.

Selectman Thackston noted that the Town will need to finalize the Master Plan update soon in order to consider the adoption of any impact fees or other major changes. He stated that state law now prohibits surveys being conducted that include questions outside of the Planning Board's purview, such as inquiring about the public's opinion about the Board of Selectmen.

PUBLIC COMMENTS: There were none at this time.

NEW BUSINESS

2026 TOWN HEALTH INSURANCE:

Diane Denoncourt, an independent health insurance agent with Access Health Insurance met with the Selectmen to discuss alternative health insurance options for 2026. She noted that she is a longtime insurance broker and has been assisting businesses with switching over from employer group plans to utilizing the individual insurance marketplace. She strongly recommended going to an ICHRA plan (Individual Coverage Health Reimbursement

Arrangement), which can offer lower monthly premiums with deductibles that can be partially or fully financed by the Town through an HRA (health reimbursement arrangement). She noted that there could be future tax credits offered via recent legislation passed in Washington. The rates for 2026 won't be known until the end of October or beginning of November. Ms. Denoncourt will check to ensure that Monadnock Hospital is included within network for these plans.

POLICE DEPARTMENT- STAFFING:

Police Chief Ellis joined the Board to discuss police department staffing. He would like to add an additional full-time officer, as previously approved and included in the 2025 budget.

Unfortunately, despite his efforts, the Town was unable to get an officer already certified. He introduced Mr. Aaron Chancey to the Board, his choice to hire as the new full-time officer. The new hire will need to enroll in the New Hampshire Police Academy.

MOTION to approve the new hire of Aaron Chancey as a full-time police officer starting September 1, 2025, at the annual salary of \$60,000 (\$28.85 hourly rate), Selectman Chasse, **SECOND** by Selectman Thackston. **VOTES: 3-0-0.**

NH DES DISBURSEMENTS #6 & #10:

The Board reviewed disbursement requests for the Clean Water State Revolving Fund and Water Division/Wastewater Engineering Bureau grant funding.

MOTION to approve the disbursement request #10 for New Hampshire Department of Environmental Services for the Clean Water State Revolving Fund Project #CS-330190-06 in the amount of \$3,534.68 and to authorize the Town Administrator to sign on behalf of the Town, Selectman Thackston, **SECOND** by Selectman Chasse. **VOTES: 3-0-0.**

MOTION to approve the disbursement request #6 for New Hampshire Department of Environmental Services for the water division/wastewater engineering bureau state grant funding for Project #CS-332190-01 in the amount of \$10,220.18 and to authorize the Chairman to sign on behalf of the Town, Selectman Thackston, **SECOND** by Selectman Chasse. **VOTES: 3-0-0.**

HIGHWAY & TRANSFER STATION DEPARTMENT MEMO:

A draft memo for the Highway Department and Transfer Station was read out loud for the record. The memo addresses use and storage of shared town equipment.

MOTION to approve the draft highway department and transfer station memo, Selectman Thackston, **SECOND** by Selectman Chasse. **VOTES: 3-0-0.**

RUSSELL AVE. WINTER PARKING:

The Road Agent inquired about purchasing signs to post along Russell Avenue to prevent street parking during the winter months. The Board discussed the matter and concluded that a letter sent to all homes on Russell Avenue should be sufficient.

OLD BUSINESS

SCHOOL STREET DRIVEWAY PERMIT:

The Road Agent provided a letter to the Board regarding a recent application for a driveway on School Street. The Board discussed the completed driveway and noted that the 5-foot apron requirement of the Town regulations still needs to be met. There was also discussion about

merging the current driveway permit application with the regulations, so it is one file and that applicants are aware of the regulations when applying.

MOTION to tentatively approve the completed driveway at 47 School Street pending the addition of the required 5 -foot apron via the Town driveway regulations, Selectman Thackston, **SECOND** by Selectman Chasse. **VOTES: 3-0-0.**

MOTION to merge the Town's driveway permit application with the Town's driveway regulations into one single file, Selectman Chasse, **SECOND** by Selectman Thackston. **VOTES: 3-0-0.**

Police Chief Ellis did inquire about the changing of Depot Street to one way. The Board responded that this had been discussed at multiple previous meetings and that an information session was held specifically to discuss street changes. Concerns about the placement of the stop sign at West Hill Road will be added to the agenda for the next meeting.

CONSENT AGENDA

MANIFEST:

MOTION to approve accounts payable and payroll payments for the following dates and amounts:

Payroll:

- 7/28/25: \$26,794.18
- 8/4/25: \$28,786.51
- 8/11/2025: \$29,120.63

Accounts payable:

- 7/21/2025: \$200
- 7/23/2025: \$22,783.27
- 7/28/2025: \$200
- 7/31/2025: \$27,006.87
- 8/4/2025: \$200
- 8/7/2025: \$139,652.20 (includes \$100,000 payment towards TAN)

Selectman Thackston, **SECOND** by Selectman Chasse. **VOTES: 3-0-0.**

MINUTES:

MOTION to approve the July 18, 2025 public meeting minutes as submitted, Selectman Thackston, **SECOND** by Selectman Chasse. **VOTES: 3-0-0.**

MOTION to approve the July 18, 2025 non-public meeting minutes as submitted, Selectman Thackston, **SECOND** by Selectman Chasse. **VOTES: 3-0-0.**

BOARD CORRESPONDENCE:

There was none at this time.

Road Agent

From: Town Administrator
Sent: Monday, March 18, 2024 12:52 PM
To: John Coons
Subject: RE: 47 School Street- Driveway

Yes, did you want to contact them or what would you like to do?

*Jeremy Bourgeois, MPA
Town Administrator
Troy, NH
603-242-7722
www.troy-nh.us*

All communications to and from this email address may be subject to disclosure according to NH RSA 91-A

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From: John Coons <tryhwy1@troy-nh.us>
Sent: Monday, March 18, 2024 12:51 PM
To: Town Administrator <townadmin@troy-nh.us>
Subject: Re: 47 School Street- Driveway

cant have a second driveway unless there is more than 500 feet of road frontage

From: Town Administrator <townadmin@troy-nh.us>
Sent: Monday, March 18, 2024 9:23 AM
To: John Coons <tryhwy1@troy-nh.us>; Rob Norton <Robnorton40@gmail.com>
Subject: 47 School Street- Driveway

I received a call today regarding a second driveway being added to the property at 47 School Street. Supposedly it has already been marked off where it will be added. We have not received any driveway permits here in the Selectmen's Office.

Please advise on how you'd like to handle this. I've copied Rob Norton, who is the newly hired Code Enforcement Officer for the Town.

Thank you.

*Jeremy Bourgeois, MPA
Town Administrator
Troy, NH
603-242-7722*

www.troy-nh.us

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Town of Troy

16 Central Square - PO Box 249 - Troy, New Hampshire 03465

March 18, 2024

Anthony Cesolini
12 Beech Street
Winchendon, MA 01475

Mr. Cesolini:

Please find this letter in regard to the driveway(s) on the property of Map 18, Lot 154, located at 47 School Street. The Town of Troy only allows a second driveway for a demonstrated need or if the frontage along the street is at least 500 feet. Any new driveway(s) require a permit through the Selectmen's office and must be reviewed and approved by the Town's Road Agent.

The Town's driveway regulations and a driveway permit application are attached to this letter for your reference. If you have any questions you can contact the Road Agent or Selectmen's Office:

Road Agent- John Coons, 603-242-3649 or tryhwy1@troy-nh.us

Selectmen's Office- Elizabeth Watson, 603-242-7722 or ewatson@troy-nh.us

Sincerely,

Jeremy Bourgeois, MPA
Town Administrator



Town of Troy

16 Central Square - PO Box 249 - Troy, New Hampshire 03465

June 5, 2025

Anthony Cesolini
47 School Street
Troy, NH 03465

Mr. Cesolini:

Please find this letter in regard to the driveway being constructed on the property of Map 18, Lot 154, located at 47 School Street. Any new driveways require a permit application approved by the Road Agent and Selectmen, as well as payment of the \$50 fee. It is my understanding that your contractor has discussed the new driveway with the Road Agent and that it is to replace the current one. Please submit a completed permit application and payment to the Road Agent or Town Hall in order to be in compliance with the Town's regulations.

The Town's driveway regulations and a driveway permit application are attached to this letter for your reference. If you have any questions you can contact the Road Agent:

Road Agent- John Coons, 603-242-3649 or tryhwy1@troy-nh.us.

Sincerely,

A handwritten signature in black ink, appearing to read "Jeremy Bourgeois".

Jeremy Bourgeois, MPA
Town Administrator

A handwritten signature in black ink, appearing to read "Michael Mastaler".

Michael Mastaler
Code Enforcement Officer



Town of Troy

16 Central Square - PO Box 249 - Troy, New Hampshire 03465

July 24, 2025

Anthony Cesolini
47 School Street
Troy, NH 03465

Mr. Cesolini:

Please find this letter as follow up to the driveway constructed on Map 18, Lot 154, located at 47 School Street. Please find attached the Town's driveway regulations, which all new driveways must adhere to. We ask that you address these last few concerns regarding paving, the slope, and snow removal, to ensure that it fully complies with the regulation.

We thank you for your time, patience, and cooperation.

Building Inspector/Code Enforcement Officer- Mike Mastaler, 603-499-0168

Sincerely,

Jeremy Bourgeois, MPA
Town Administrator

Michael Mastaler
Code Enforcement Officer

RECEIVED

JUL 29 2026

TOWN OF TROY

TOWN CLERK

4G

FORM

PA-7

(Assigned by Municipality)

NEW HAMPSHIRE DEPARTMENT OF REVENUE ADMINISTRATION
NOTICE OF INTENT TO CUT WOOD OR TIMBER

YR

TOWN

OP#

26-453- -T

For Tax Year April 1, 26 to March 31, 27

PLEASE TYPE OR PRINT (If filling in form on-line, use TAB Key to move through fields)

1. Town/City of:

Troy

2. Tax Map/Block/Lot or USFS Sale Name & Unit No.

M 17 L 37

3. Intent Type: Original ☐Supplemental ☒

25-453-04-T

(Original Intent Number)

4. Name of Access Road:

Prospect St

5a. Acreage of Lot:

30

Acreage of Cut:

10

5b. Anticipated Start Date:

8-5-26

6. Type of ownership (check only one):

a. Owner of Land and Stumpage (Sole Owner) ☐b. Owner of Land and Stumpage (Joint Tenants) ☐c. Owner of Land and Stumpage (Tenants in Common) ☐d. Previous owner retaining deeded timber rights ☐e. Owner/Purchaser of stumpage & timber rights on public lands (Fed., State, municipal, etc.) or Utility Easements ☒

REPORT OF CUT / CERTIFICATE TO BE SENT TO:

OWNER ☐

OR

LOGGER / FORESTER ☒BY MAIL ☒

OR

E-MAIL ☐

7. I/We hereby accept responsibility for reporting all timber cut within 60 days after the completion of the operation or by May 15, whichever comes first. I/We also assume responsibility for any yield tax which may be assessed. (If a corporation, an officer must sign.)

Attach a signature page for additional owners.

SIGNATURE OF OWNER(S) OR CORPORATE OFFICER(S)

DATE SIGNED

GARY J. STONE

PRINT CLEARLY OR TYPE NAME OF OWNER(S) OR CORPORATE OFFICER(S)

SIGNATURE OF OWNER(S) OR CORPORATE OFFICER(S)

DATE SIGNED

PRINT CLEARLY OR TYPE NAME OF OWNER(S) OR CORPORATE OFFICER(S)

MAILING ADDRESS

PO BOX 164

CITY OR TOWN

Troy

E-MAIL ADDRESS

603-313-5251

HOME PHONE (Enter number without dashes)

CELL PHONE (Enter number without dashes)

NH

03465

STATE

ZIPCODE

8. Description of Wood or Timber To Be Cut

Species	Estimated Amount To Be Cut	
White Pine	20	MBF
Hemlock	15	MBF
Red Pine		MBF
Spruce & Fir		MBF
Hard Maple		MBF
White Birch		MBF
Yellow Birch		MBF
Oak	15	MBF
Ash		MBF
Soft Maple		MBF
Beech/Pallet/Tie & Mat Logs/ Pine Box		MBF
Other (Specify)		MBF
Pulpwood		Tons
Spruce & Fir		
Hardwood & Aspen		
Pine	20	
Hemlock	20	
Biomass Chips		
Miscellaneous		
High Grade Spruce/Fir		Tons
Cordwood & Fuelwood	75	Cords

9. Species and Amount of Wood or Timber For Personal Use or Exempt. See exemptions on back of form.

Species	Amount:
---------	---------

10. By signing below, the Logger/Forester or person responsible for cutting hereby accepts responsibility for verifying the volumes of wood and timber to be reported by the owner, and certifies that they are familiar with RSA 227-J, the timber harvest laws.

Eric Grimshaw 7-4-26
SIGNATURE OF PERSON RESPONSIBLE FOR CUT DATE

ERIC Grimshaw
PRINT CLEARLY OR TYPE NAME OF PERSON RESPONSIBLE FOR CUT

250 Richmond Rd
MAILING ADDRESS

Troy NH 03465
CITY OR TOWN STATE ZIPCODE

603 963 9606
PHONE NUMBER E-MAIL ADDRESS

FOR MUNICIPAL ASSESSING OFFICIALS ONLY

The Selectmen/Municipal Assessing Officials hereby certify that:

1. All owners of record have signed the Intent;
2. The land is not under the Current Use Unproductive category;
3. The form is complete and accurate; and

4. Any timber tax bond required has been received.
\$ _____ Date: _____

5. The tax collector will be notified within 30 days of receipt pursuant to RSA 79:10.

6. This form to be forwarded to DRA immediately after signing.

SIGNATURE OF MUNICIPAL ASSESSING OFFICIAL DATE

SIGNATURE OF MUNICIPAL ASSESSING OFFICIAL DATE

SIGNATURE OF MUNICIPAL ASSESSING OFFICIAL DATE

SIGNATURE OF MUNICIPAL ASSESSING OFFICIAL DATE

SIGNATURE OF MUNICIPAL ASSESSING OFFICIAL DATE

PA-7

SIGN HERE

APPLICATION FOR OPEN CONTAINER/ALCOHOL PERMIT

\$50 non-refundable permit fee

Organization/Party Applying: Yvette RedfieldContact Person: Yvette RedfieldType of Event: Baby ShowerDate of Event: 9/13/26Duration of Event: From 11 a.m./p.m. to 2 a.m./p.m.Number of attendees: 20

Location: Samuel E. Paul Recreation Center

The undersigned agrees to indemnify and hold harmless the Town of Troy and its employees from any and all loss, cost (including attorney's fees), damages, expense and liability in connection with claims for property damage, bodily injury or death of any person which may arise out of the use of alcohol at this event.

Yvette Redfield
Applicant/Organization

Yvette Redfield
Signature of Applicant/Representative

Date 7/31/26

07/31/26
Date

Police Department

Donnelly
Chief of Police

Approved by Selectmen

Application Status APPROVED DENIED

Date

Chairman, Board of Selectmen



Town of Troy

16 Central Square - PO Box 249 - Troy, New Hampshire 03465

41:11-a Town Property. - I. The selectmen shall have authority to manage all real property owned by the town and to regulate its use, unless such management and regulation is delegated to other public officers by vote of the town, or is governed by other statutes, including but not limited to RSA 31:112, RSA 35-B, RSA 36-A:4, and RSA 202-A:6.

EVENT PERMIT

Permit # 2020-03Date 7/29/20

Organization Applying Cheshire Rail Road Phone: 603-209-4922
Name of Person Making Application Kim Chaffee
Address 16 High St. Troy, NH Phone: _____

Is hereby licensed and authorized to conduct a 5th ANNUAL Depot Day
on Oct 3rd at Cheshire Rail Road Depot (Description of Event)
located in Troy, New Hampshire.

This permit is valid for only the above named event to be held on the above date and is subject to the following restrictions or conditions.

1. Time of Event: 9am to 2pm 2. Expected Attendance: 150 plus -
3. Police Requirements: NOT NEEDED -
4. Ticket Cost (if applicable): NONE
5. Other: _____

The organization and/or person making application for permit will be held financially responsible for all costs incurred by the Town of Troy for police, ambulance or fire services required or received by event participants. A security deposit may be required by the Selectmen.

Signature of Applicant Kim E Chaffee

Signature of Facility Representative _____

The fee charged for this permit in accordance with NH RSA 286:4 shall be \$100

(286:4 Licenses; Fees. - Every such special license shall be in writing, and shall specify the day and hour of the permit to perform or exhibit, or of such parade, procession or open-air public meeting. Every licensee shall pay in advance for such license, for the use of the city or town, a sum not more than \$300 for each day such licensee shall perform.)

Fee paid N/A Date, Insurance Certificate Received (if applicable): N/A

Board of Selectmen

Date: _____

Chief of Police

Date: _____

Sarah Lashua
742 W Swanzey Road, Apt 303
Swanzey, NH 03446
slashua472@gmail.com
(978) 906-5259

August 5, 2026

Board of Selectmen
Town of Troy
PO Box 249
Troy, NH 03465

Dear Board of Selectmen,

I am writing to inform you that I am resigning from my position as Finance & Benefits Coordinator for the Town of Troy, effective Wednesday, August 19, 2026.

I am truly grateful for the experience and knowledge I have gained working for the Town of Troy. Please let me know if there is anything I can do to help during this transition.

Sincerely,


Sarah Lashua

on call pay

fitzwilliamnh

Jun 10, 2024, 10:50:13 AM

to mm...@googlegroups.com

Hi,

Was wondering if everyone could share what their on call pay rate is for their DPW Department and if you pay this on a year round basis.

Thanks,

Debbie Favreau

Town Administrator

From: mm...@googlegroups.com <mm...@googlegroups.com> **On Behalf**
Of fitzwi...@fitzwilliam-nh.gov
Sent: Monday, June 10, 2024 10:36 AM
To: mm...@googlegroups.com
Subject: [MMANH] on call pay



Michael T. Branley

Jun 10, 2024, 11:07:33 AM

to fitzwilliamnh, mm...@googlegroups.com

Swanzy pays what we call a winter maintenance stipend, see attached.

Michael T. Branley, MPA

Town Administrator

Town of Swanzey

PO Box 10009

Swanzey, NH 03446

Jun 10, 2024, 11:18:25 AM

to fitzwilliamnh, mm...@googlegroups.com

Raymond's on call pay as stated in the CBA is a minimum of 4 hours at 1 ½ times their rate of pay on a year round basis.

Ken Robichaud

Raymond Town Manager

Town of Raymond

4 Epping Street

Raymond, NH 03308

Jun 10, 2024, 12:03:49 PM

to fitzwilliamnh, mm...@googlegroups.com

The Town of Chester pays one Highway Employee (on a rotating basis) an extra \$200 per two-week pay period to remain on call.

Regards!

Debra

Debra H Doda
Town Administrator
Town of Chester
84 Chester Street
Chester, NH 03036
[\(603\) 887-3636 x131](tel:6038873636x131)

townadmin@sandwichnh.org

Jun 10, 2024, 12:40:25 PM

to fitzwilliamnh, mm...@googlegroups.com

We currently pay \$127/week and the department rotates weekly. If there is a call, they are given a minimum of 2 hours at OT rate. From the sounds of it, our Road Agent will be coming to the next budget cycle asking for a seasonal incentive for all members in the winter such that there's recognition that they are all essentially on-call all winter long.

Courtney Delaney
Town Administrator
Town of Sandwich
8 Maple St/PO Box 194
Sandwich, NH 03227
[603-284-7701](tel:6032847701)

Good afternoon,

The individual on call received \$100 per week, plus call out at time and a half.

Scott

Town of Holderness

Plowing

town...@farmington.nh.us

Oct 1, 2021, 4:41:54 PM

to MMANH

Good afternoon

As winter approaches unfortunately, I am asking how many of you salary department heads (Road Agent/Director) are a regular in the plow routes rather than just filling in. Do you give any additional compensation for winter if they are in the regular route.

Sent from my iPhone

to town...@farmington.nh.us, MMANH

Good morning Arthur,

Northfield compensates the DPW Director with 10 additional vacation days a year as compensation for plowing. Although; he does receives a higher salary then his employees he calculated that he spends approx. 140 additional hours in plowing, so we approached the Selectmen with this proposal. Ken

Ken Robichaud

Northfield Town Administrator

Northfield Health Officer/Inspector

21 Summer Street

Northfield, NH 03276

[603-286-7039](tel:603-286-7039) (Office)

[603-937-0372](tel:603-937-0372) (Cell)

Oct 4, 2021, 7:54:07 AM

to town...@farmington.nh.us, MMANH

Good morning,

The Rumney Road Agent has a regular plow route. He is paid the first 40 hours at his regular rate of pay, he then can receive the next 10 hours at the overtime rate, anything after 50 hours is tracked as comp. time at time and a half. He signs a waiver allowing for comp. time rather than being paid an hourly wage.

Thanks,

Joe

Joe Chivell

Town Administrator

Rumney, NH

[603-786-9511](tel:603-786-9511)

Road Agent

Good morning,

I am wondering how many towns pay their Road Agents hourly rather than salary and if they receive overtime pay. If so, do you know the average amount of overtime (in hours) they usually receive?

Thank you,

Kate O'Connor

Office of the Town Administrator

Town of Campton, NH

12 Gearty Way

Campton, NH 03223

[603-726-3223 ext. 101](tel:603-726-3223)

www.camptonnh.org

to Municipal Managers (mmanh@googlegroups.com), townadministrator

Northumberland pays our Road Agent hourly. His calendar year overtime hours are:

YTD

2024 182.75

2023 219.50

2022 344.25

2021 206.50

2020 197.25

2019 286.50

Tammy Letson,

Town Administrator

Office Hours: Mon-Wed & Fri 8:00-4:00 and Thurs. 8:00-Noon

19 Main St., Village of Groveton, Town of Northumberland, NH 03582 TEL [\(603\) 636-7399](tel:6036367399) FAX [\(603\) 636-6098](tel:6036366098)

Town Admin

Oct 22, 2024, 8:56:29 AM

to townadministrator, Municipal Managers (mmanh@googlegroups.com)

Our Road Agent is also our Public Works Director. We pay him an additional stipend of \$500 quarterly.

Stephanie Giovannucci

Town Administrator

Town of Northfield

21 Summer St Northfield NH 03276

Oct 22, 2024, 9:23:13 AM

to townadministrator, Municipal Managers (mmanh@googlegroups.com)

Good Morning,

Our Road Agent is paid a stipend of \$1,500 . He is also our Highway Department Manager, eligible for overtime.

Overtime hours has been:

2021 - 256 hours

2022 - 241.5 hours

2023 - 257.5 hours

2024 YTD - 146 hours

Best,

Kim

Kim Kleiner, CPM, MPA

Town Administrator

Town of Litchfield

2 Liberty Way

Litchfield, NH 03052

Winter Maintenance Stipend 2023-2024

In recognition of employees involved in winter maintenance to respond to callouts, a weekly stipend shall be awarded to certain regular full time Department of Public Works (DPW) employees designated as responsible for winter maintenance in accordance with a list developed annually by the DPW Director and authorized by the Board of Selectmen. This stipend shall be paid out in the last pay period of each month. Pay periods included in this stipend period beginning on November 12, 2022 and run through the pay period ending April 13, 2023 in accordance with the following provisions:

Personnel holding a CDL License and authorized by the department to drive a 6 wheeled dump truck (but not necessarily assigned): Stipend amount \$25.00 (ID by *)

Personnel holding a standard driver's license and assigned to drive an F-550, a one ton or other similar vehicle, or sidewalk tractor during winter maintenance: Stipend amount \$20.00

Employees absent from work more than 5 consecutive work days (whether receiving sick leave or other approved leave) shall not receive the weekly stipend that week as they shall be deemed not available for call out.

Unit #	Vehicle Description	Staff Assignment
1	2018 GMC 3500	
2	2013 International 7400	
3	2020 International 7400	
4	2016 International 7400	
5	2007 International 7400	
6	2008 Ford F550	
7	2013 Ford F550	
8	2006 Ford F350	
31	2004 Ford F550	
	2018 GMC 3500	
No Unit Number	Sidewalk Tractor	

Posting information for all listed employees: 01-4312-4312-1-110

Signed:

Kenneth P. Colby, Jr.

Sylvester R. Karasinski

W. William Hutwelker III
Board of Selectmen

Date: _____

Finance Staff:

Earning Codes:

CDL (with *) – WMC1 – \$25.00

Operator License – WMO1 (letter O) – \$20.00

Pay # of Pay Periods that apply for each month.

November 2023 = 3

April 2024 = 2

Earning Code and # of weeks should be listed on each time sheet for the week it's included.
Example: WMC1 = 4

TROY BOARD OF SELECTMEN MEETING
THURSDAY, JULY 2, 2026, 6:00 P.M.
TROY TOWN HALL

Selectmen present: Chair McDermott, Selectman Thackston, Selectman TJ Chasse

Also present: Town Administrator Jeremy Bourgeois, Judi Dill, Mark Dill, Anna Schierioth, Justine Guay, Timothy Bidwell, Ricky Bidwell, Building Inspector/Code Enforcement Officer Mike Mastaler

The meeting was called to order at 6:01 P.M.

BOARD MEMBER COMMENTS

Selectman Chasse: He attended the Recreation Commission meeting on June 24th. The Town's annual family fun day and fireworks display will be held on July 11th. The tests for the Sand Dam water have come back clear, so swimming may resume there. The Recreation Department and Historical Society will be hosting a BBQ chicken dinner and live music on July 17th and will have vendors and a yard sale on July 18th, both on the Town Common.

Chair McDermott: None at this time.

Selectman Thackston: He notified the Town Administrator and Board that he was running late and get to the meeting as soon as he could.

PUBLIC COMMENTS

Residents complained about vehicles and junk at 9 Gap Mountain Road and other Town properties. calling Gap Mountain a safety hazard that has delayed road paving. The Town's Zoning Ordinance was cited for only allowing two unregistered vehicles per lot, and they guessed that the property currently holds about 30 vehicles. They said the family sold equipment during probate, and gas and oil smells prevent walking or running past. The Board replied that they are working with Town Counsel regarding this property, in an attempt to get it cleaned up and the back taxes paid back. The Town Administrator will work with the Code Enforcement Officer regarding looking into the other possible zoning violations mentioned.

Timothy and Ricky Bidwell arrived later in the meeting to inquire about the conversation about their property that came up during the code enforcement discussion. The Board assured them that they weren't aware of any violations at this time and that the Code Enforcement Officer would reach out to them to further discuss the matter.

NEW BUSINESS

BUILDING PERMITS:

The Board reviewed pending building permits.

MOTION to approve building permit #2026-13 for Map 12, Lot 17-2, Selectman Chasse,
SECOND by Chair McDermott. **VOTES: 2-0-0.**

MOTION to approve building permit #2026-15 for Map 19, Lot 55, Selectman Chasse,
SECOND by Chair McDermott. **VOTES: 2-0-0.**

MOTION to approve building permit #2026-17 for Map 13, Lot 87, Selectman Chasse,
SECOND by Chair McDermott. **VOTES: 2-0-0.**

TAX ABATEMENTS:

The Board reviewed two tax abatements from the Tax Collector's office.

MOTION to approve tax abatement #1071 for Map 14, Lot 6, in the amount of \$323, Selectman Chasse, **SECOND** by Chair McDermott. **VOTES: 2-0-0.**

MOTION to approve tax abatement #1076 for Map 11, Lot 3, CG02, in the amount of \$684, Selectman Chasse, **SECOND** by Chair McDermott. **VOTES: 2-0-0.**

MUNI MINS- A.I. MINUTE TAKING SOFTWARE:

The Board reviewed the annual pricing for Muni Mins, a new software that produces board or committee minutes via a file or video link upload. Selectman Chasse asked the Town Administrator to inquire with the Town's boards about possible usage and cost sharing for the service.

MONADNOCK BERRIES SIGN PERMIT APPLICATION:

The Board reviewed a sign application for seasonal placement on the Town Common.

MOTION to approve the sign permit application for Monadnock Berries, Selectman Chasse, **SECOND** by Chair McDermott. **VOTES: 2-0-0.**

CIP COMMITTEE APPOINTMENT:

MOTION to appoint Steven Sawyer to the Capital Improvement Plan Committee (CIP) through March 2027, Selectman Chasse, **SECOND** by Chair McDermott. **VOTES: 2-0-0.**

VETERAN'S TAX CREDIT:

The Board reviewed a veteran's tax credit application.

MOTION to approve the veteran's tax credit application for Map 7, Lot 4, Chair McDermott, **SECOND** by Selectman Chasse. **VOTES: 2-0-0.**

RIGHT TO KNOW POLICY (NH RSA 91-A):

The Board briefly discussed a draft Right to Know policy. It was requested that the policy be sent to Town Counsel for review and placed on a future meeting agenda.

CONSENT AGENDA

MANIFEST:

MOTION to approve the following payrolls:

- 6/22/26: \$26,029.48
- 6/29/26: \$28,493.67
- 7/2/26: \$132.00
- 7/6/26: \$28,292.78

Accounts payable:

- 6/16/26: \$263,602.18

- 6/23/26: \$6,378.46
- 6/23/26: \$745.54
- 6/30/26: \$26,910.08

Selectman Chasse, **SECOND** by Chair McDermott. **VOTES: 2-0-0.**

MINUTES:

MOTION to approve the June 11, 2026 public meeting minutes as submitted, Selectman Chasse, **SECOND** by Chair McDermott. **VOTES: 2-0-0.**

MOTION to approve the June 11, 2026 nonpublic meeting minutes as submitted, Selectman Chasse, **SECOND** by Chair McDermott. **VOTES: 2-0-0.**

OLD BUSINESS

248 WEST HILL ROAD:

The Board reviewed offers for the tax-deeded property located at 248 West Hill Road.

MOTION to accept the purchase offer of \$84,900 from Dan Meattey for the property at 248 West Hill Road, Map 26, Lot 17, and to authorize Chair McDermott to sign the documents on behalf of the Town, Selectman Thackston, **SECOND** by Selectman Chasse. **VOTES: 3-0-0.**

BOARD CORRESPONDENCE:

None at this time.

ADMINISTRATIVE REPORT:

None at this time.

NON-PUBLIC SESSION 91-A:3, II (B):

MOTION to enter into non-public session under RSA 91-A:3, II (B), Selectman Chasse, **SECOND** by Selectman Thackston. **Roll Call Vote: Thackston, Yes; Chasse, Yes; McDermott, Yes.**

The Board entered nonpublic session at 7:11 P.M. While in non-public session, the Board discussed the hiring of a public employee.

MOTION to exit nonpublic session under RSA 91-A:3, II (B): Selectman Thackston, **SECOND** by Selectman Chasse. **Roll Call Vote: Thackston, Yes; Chasse, Yes; McDermott, Yes.**

The Board of Selectmen exited the nonpublic session at 7:28 P.M.

The Board of Selectmen meeting adjourned at 7:29 P.M.

TROY SELECT BOARD:

Jeremy Bourgeois, Town Administrator

Jody McDermott, Chair

139
140
141

TJ Chasse

Richard H. Thackston, III

DRAFT

TROY BOARD OF SELECTMEN NONPUBLIC MEETING
THURSDAY, JULY 2, 2026, 6:00 P.M.
TROY TOWN HALL

Selectmen present: Chair McDermott, Selectman Thackston, Selectman Chasse

Also present: Town Administrator Jeremy Bourgeois

The meeting was called to order at 6:01 P.M.

NON-PUBLIC SESSION 91-A:3, II (B):

MOTION to enter into non-public session under RSA 91-A:3, II (B), Selectman Chasse, **SECOND** by Selectman Thackston. **Roll Call Vote: Thackston, Yes; Chasse, Yes; McDermott, Yes.**

The Board entered nonpublic session at 7:11 P.M.

The Board discussed hiring an additional Transfer Station employee on a per diem basis.

MOTION to hire Jacob Ellis as a Transfer Station per diem employee at the rate of \$15.00 per hour, Selectman Thackston, **SECOND** by Selectman Chasse. **VOTES: 3-0-0.**

MOTION to exit nonpublic session under RSA 91-A:3, II (B): Selectman Thackston, **SECOND** by Selectman Chasse. **Roll Call Vote: Thackston, Yes; Chasse, Yes; McDermott, Yes.**

The Board of Selectmen exited the nonpublic session at 7:28 P.M.

The Board of Selectmen meeting adjourned at 7:29 P.M.

TROY SELECT BOARD:

Jeremy Bourgeois, Town Administrator

Jody McDermott, Chair

TJ Chasse

Richard H. Thackston, III

Town of Troy
Total Due for PID 000017 000002 000000

10 NP

Interest as of 7/7/2026

Includes Only Unpaid Invoices

Current Owner	Warrant	PID	Location	Per Diem	Principal	Int/Pen	Amount Due
FIRMIN, DANIEL H	2026P01004806	000017 000002 000000	SOUTH ST	\$ 0.0896	\$ 409.00	\$0.00	\$409.00
FIRMIN, DANIEL H	2025P02004901	000017 000002 000000	SOUTH ST	\$ 0.1021	\$ 466.00	\$18.28	\$484.28
FIRMIN, DANIEL H	2025P01004903	000017 000002 000000	SOUTH ST	\$ 0.0774	\$ 353.00	\$27.62	\$380.62
FIRMIN, DANIEL H	2024L01000033	000017 000002 000000	SOUTH ST	\$ 0.2867	\$ 747.35	\$140.90	\$888.25
FIRMIN, DANIEL H	2023L01000020	000017 000002 000000	SOUTH ST	\$ 0.2869	\$ 747.90	\$224.76	\$972.66
FIRMIN, DANIEL H	2022L01101815	000017 000002 000000	SOUTH ST	\$ 0.4430	\$ 1,154.91	\$526.14	\$1,681.05
FIRMIN, DANIEL H	2021L01099609	000017 000002 000000	SOUTH ST	\$ 0.4261	\$ 1,110.93	\$662.35	\$1,773.28
FIRMIN, DANIEL H	2020L01097355	000017 000002 000000	SOUTH ST	\$ 0.4071	\$ 1,061.29	\$799.27	\$1,860.56
FIRMIN, DANIEL H	2019L01095111	000017 000002 000000	SOUTH ST	\$ 0.3912	\$ 1,019.99	\$865.01	\$1,885.00
FIRMIN, DANIEL H	2018L01091756	000017 000002 000000	SOUTH ST	\$ 0.6489	\$ 1,315.78	\$1,689.68	\$3,005.46
FIRMIN, DANIEL H	2017L01089460	000017 000002 000000	SOUTH ST	\$ 0.5857	\$ 1,187.62	\$1,746.48	\$2,934.10
FIRMIN, DANIEL H	2016L01087265	000017 000002 000000	SOUTH ST	\$ 0.6232	\$ 1,263.81	\$2,085.39	\$3,349.20
Totals :				\$ 4.3679	\$ 10,837.58	\$8,785.88	\$19,623.46

Must Add in Any
Legal Fees
Associated w/ SALE

SMB
7/7/26

OWNER INFORMATION		SALES HISTORY							PICTURE							
FIRMIN, DANIEL H TOMMILA, DAVID 9 GAP MOUNTAIN ROAD TROY, NH 03465		DateBookPageTypePriceGrantor														
LISTING HISTORY		NOTES														
07/31/23 GR99 08/07/18 KR14 07/17/13 JG00 06/13/09 RK14 09/22/04 TV40 07/08/04 TV14 06/08/99 AM11 11/17/89 JC11		VAC; WOODED 7/23 VACANT														
EXTRA FEATURES VALUATION											MUNICIPAL SOFTWARE BY AVITAR					
Feature Type		Units	Lngth	x	Width	Size	Adj	Rate	Cond	Market Value	Notes	TROY ASSESSING OFFICE				
											PARCEL TOTAL TAXABLE VALUE					
Year		Building		Features		Land										
2024		\$ 0		\$ 0		\$ 38,000		Parcel Total: \$ 38,000								
2025		\$ 0		\$ 0		\$ 38,000		Parcel Total: \$ 38,000								
2026		\$ 0		\$ 0		\$ 38,000		Parcel Total: \$ 38,000								
LAND VALUATION											LAST REVALUATION: 2023					
Zone: RURAL		Minimum Acreage: 2.00		Minimum Frontage: 200							Site: AVERAGE		Driveway:		Road: PAVED	
Land Type		Units	Base Rate	NC	Adj	Site	Road	DWay	Topography	Cond	Ad Valorem	SPI	R	Tax Value	Notes	
1F RES		1.500 ac	38,000	E	100	100	100	100	-- ROLLING	100	38,000	0	N	38,000		
		1.500 ac									38,000			38,000		
Data Conversion																