

KENNETH C. BALDWIN

280 Trumbull Street  
Hartford, CT 06103-3597  
Main (860) 275-8200  
Fax (860) 275-8299  
kbaldwin@rc.com  
Direct (860) 275-8345

Also admitted in Massachusetts  
and New York

December 9, 2021

*Via Electronic Mail*

Melanie A. Bachman, Esq.  
Executive Director/Staff Attorney  
Connecticut Siting Council  
10 Franklin Square  
New Britain, CT 06051

Re: **Notice of Exempt Modification – Facility Modification  
1247 New Haven Road, Naugatuck, Connecticut**

Dear Attorney Bachman:

Cellco Partnership d/b/a Verizon Wireless (“Cellco”) currently maintains an existing wireless telecommunications facility at the above-referenced property address (the “Property”). The facility consists of antennas and remote radio heads attached to an antenna mast, attached to the existing building on the Property and associated equipment on the ground adjacent to the building. The antenna mast and Cellco’s use of the antenna mast were approved by the Siting Council (“Council”) in August of 2016 (Petition No. 1241). A copy of the Petition No. 1241 approval letter and Staff Report is included in Attachment 1.

Cellco now intends to modify its facility by removing two (2) existing antennas and installing two (2) new Samsung MT6407-77A antennas on the existing antenna mounts. Cellco also intends to install remove four (4) remote radio heads (“RRHs”) and install four (4) new RRHs on existing mounts. A set of project plans showing Cellco’s proposed facility modifications and specifications for Cellco’s new antennas and RRHs are included in Attachment 2.

Please accept this letter as notification pursuant to R.C.S.A. § 16-50j-73, for construction that constitutes an exempt modification pursuant to R.C.S.A. § 16-50j-72(b)(2). In accordance with R.C.S.A. § 16-50j-73, a copy of this letter is being sent to the Town’s Chief Elected Official and Land Use Officer.

Melanie A. Bachman, Esq.

December 9, 2021

Page 2

The planned modifications to the facility fall squarely within those activities explicitly provided for in R.C.S.A. § 16-50j-72(b)(2).

1. The proposed modifications will not result in an increase in the height of the existing tower. The new antennas will be installed on Cellco's existing antenna platform.
2. The proposed modifications will not involve any change to ground-mounted equipment and, therefore, will not require the extension of the site boundary.
3. The proposed modifications will not increase noise levels at the facility by six decibels or more, or to levels that exceed state and local criteria.
4. The installation of Cellco's new antennas will not increase radio frequency (RF) emissions at the facility to a level at or above the Federal Communications Commission (FCC) safety standard. Far field approximation tables for Cellco's modified facility are included in Attachment 3. The modified facility will be capable of providing Cellco's 5G wireless service.
5. The proposed modifications will not cause a change or alteration in the physical or environmental characteristics of the site.
6. According to the attached Structural Analysis ("SA") and Mount Analysis ("MA"), the existing tower, tower foundation and antenna mounts can support Cellco's proposed modifications. Copies of the SA and MA are included in Attachment 4.

A copy of the parcel map and Property owner information is included in Attachment 5. A Certificate of Mailing verifying that this filing was sent to municipal officials and the property owner is included in Attachment 6.

For the foregoing reasons, Cellco respectfully submits that the proposed modifications to the above-referenced telecommunications facility constitutes an exempt modification under R.C.S.A. § 16-50j-72(b)(2).

Melanie A. Bachman, Esq.  
December 9, 2021  
Page 3

Sincerely,

A handwritten signature in black ink, appearing to read "Kenneth C. Baldwin". The signature is fluid and cursive, with a long horizontal stroke at the end.

Kenneth C. Baldwin

Enclosures

Copy to:

N. Warren "Pete" Hess, III, Naugatuck Mayor  
Lori Rotella, Town Planner  
Naugatuck Partners LLC, Property Owner  
Alex Tyurin, Verizon Wireless

# **ATTACHMENT 1**



# STATE OF CONNECTICUT

## CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051

Phone: (860) 827-2935 Fax: (860) 827-2950

E-Mail: [siting.council@ct.gov](mailto:siting.council@ct.gov)

[www.ct.gov/csc](http://www.ct.gov/csc)

### CERTIFIED MAIL

### RETURN RECEIPT REQUESTED

August 5, 2016

Kenneth C. Baldwin, Esq.  
Robinson & Cole LLP  
280 Trumbull Street  
Hartford, CT 06103-3597

RE: **PETITION NO. 1241** – Cellco Partnership d/b/a Verizon Wireless Petition for a Declaratory Ruling that no Certificate of Environmental Compatibility and Public Need is required for the attachment of a telecommunications facility to the northerly façade of an existing building located at 1247 New Haven Road, Naugatuck, Connecticut.

Dear Attorney Baldwin:

At a public meeting held on August 4, 2016, the Connecticut Siting Council (Council) considered and ruled that the above-referenced proposal would not have a substantial adverse environmental effect, and pursuant to Connecticut General Statutes § 16-50k, would not require a Certificate of Environmental Compatibility and Public Need with the following conditions:

1. Implement erosion and sedimentation control measures (E&S controls) in accordance with the *2002 Connecticut Guidelines for Soil Erosion and Sediment Control*;
2. Employ a qualified environmental professional to provide environmental compliance awareness training to the contractor and independently inspect erosion controls to document proper installation;
3. Use of off-road construction equipment that meets the latest EPA or California Air Resources Board standards, or in the alternative, equipment with the best available controls on diesel emissions, including, but not limited to, retrofitting with diesel oxidation catalysts, particulate filters and use of ultra-low sulfur fuel;
4. Compliance with the provisions of Section 22a-174-18(b)(3)(C) of the Regulations of Connecticut State Agencies that limit the idling of mobile sources to 3 minutes;
5. Approval of any minor project changes shall be delegated to Council staff;
6. Unless otherwise approved by the Council, if the facility authorized herein is not fully constructed within three years from the date of the mailing of the Council's decision, this decision shall be void, and the facility owner/operator shall dismantle the facility and remove all associated equipment or reapply for any continued or new use to the Council before any such use is made. The time between the filing and resolution of any appeals of the Council's decision shall not be counted in calculating this deadline. Authority to monitor and modify this schedule, as necessary, is delegated to the Executive Director. The facility owner/operator shall provide written notice to the Executive Director of any schedule changes as soon as is practicable;
7. Any request for extension of the time period to fully construct the facility shall be filed with the Council not later than 60 days prior to the expiration date of this decision and shall be served on all parties and intervenors, if applicable, and the Town of Naugatuck;



8. Within 45 days after completion of construction, the Council shall be notified in writing that construction has been completed;
9. Any nonfunctioning antenna and associated antenna mounting equipment on this facility owned and operated by the Petitioner shall be removed within 60 days of the date the antenna ceased to function;
10. If the facility ceases to provide wireless services for a period of one year the Petitioner shall dismantle the tower and remove all associated equipment or reapply for any continued or new use to the Council within 90 days from the one year period of cessation of service. The Petitioner may submit a written request to the Council for an extension of the 90 day period not later than 60 days prior to the expiration of the 90 day period; and
11. This Declaratory Ruling may be transferred or partially transferred, provided both the facility owner/operator/transferor and the transferee are current with payments to the Council for their respective annual assessments and invoices under Conn. Gen. Stat. §16-50v. The Council shall be notified of such sale and/or transfer and of any change in contact information for the individual or representative responsible for management and operations of the facility within 30 days of the sale and/or transfer. Both the facility owner/operator/transferor and the transferee shall provide the Council with a written agreement as to the entity responsible for any quarterly assessment charges under Conn. Gen. Stat. §16-50v(b)(2) that may be associated with this facility.

This decision is under the exclusive jurisdiction of the Council and is not applicable to any other modification or construction. All work is to be implemented as specified in the petition dated June 29, 2016.

Enclosed for your information is a copy of the staff report on this project.

Very truly yours,



Robert Stein  
Chairman

RS/FOC/cm

Enclosure: Staff Report dated August 4, 2016

- c: The Honorable N. Warren Hess, Mayor, Town of Naugatuck  
Sue Goggin, Town Planner, Town of Naugatuck



# STATE OF CONNECTICUT

## CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051

Phone: (860) 827-2935 Fax: (860) 827-2950

E-Mail: [siting.council@ct.gov](mailto:siting.council@ct.gov)

[www.ct.gov/csc](http://www.ct.gov/csc)

### Petition No. 1241

#### Cellco

1247 New Haven Road, Naugatuck

Telecommunications Facility

Staff Report

August 4, 2016

### Introduction

On June 30, 2016, the Connecticut Siting Council (Council) received a petition from Cellco Partnership d/b/a Verizon Wireless (Cellco) for a declaratory ruling that no Certificate of Environmental Compatibility and Public Need is required for the proposed installation of a telecommunications facility at 1247 New Haven Road, Naugatuck, Connecticut. Currently, Cellco has identified a need to improve wireless service along Route 63 and surrounding commercial and residential areas in southeast Naugatuck.

Presently, AT&T and MetroPCS both received municipal approval (2003 and 2009, respectively) to install wireless telecommunications equipment on the southern façade of the existing warehouse building. AT&T's equipment consists of four mast-mounted antennas extending to an overall height of 35.2 feet above ground level (16.5 feet above the roof of the warehouse). MetroPCS's equipment consists of a single mast supporting two antennas to an overall height 32.6 feet agl (14 feet above the roof of the warehouse).

### Proposed Project

Specifically, Cellco would install two, fifty-foot towers attached to the northerly facade on an existing warehouse building owned by Naugatuck Partners, LLC. Each tower would support three antennas (six total) and two remote radio heads (four total) extending to a height of 53.6 feet agl (35 feet above the roof of the warehouse). Cellco's equipment cabinets and propane-fueled back-up power generator would be installed on a twelve-foot by twenty-six-foot equipment platform with canopy structure. The equipment platform would be surrounded by an eight-foot tall chain-link fence on the southeast corner of the building adjacent to AT&T's equipment. Electrical and telephone service would run underground from the existing adjacent utility backboards adjacent to the proposed site.

All Points Technology Corporation (APT) conducted an inland wetland assessment. APT determined Cellco's equipment pad is within approximately 44 feet of a wetland, a perennial stream Beacon Hill Brook. APT concludes Cellco's installation would not cause an adverse impact, as other developed areas of the property are situated closer to the brook, contingent upon proper erosion and sediment controls being installed and further recommends a qualified environmental professional provide environmental compliance awareness training to the contractor and independently inspect erosion controls to document proper installation.

The subject property is located within Naugatuck's "New Haven Road Design" zoning district. The nearest residences are located across Beacon Hill Brook and south of the subject property and the visual impact is not expected to be significant due to intervening vegetation.

Cellco proposes to operate the 700, 1900, and 2100 MHz frequencies. The calculated power density would be 12.2 percent of the applicable limit using a -10 dB off-beam adjustment. Notice is not required to the Federal Aviation Administration.

Notice was provided to the Town of Naugatuck, the property owner, and abutting property owners on or about June 29, 2016. No comments have been received.

Cellco contends that this proposed project would not have a substantial adverse environmental impact.

### **Staff Recommendations**

Staff recommends the following conditions:

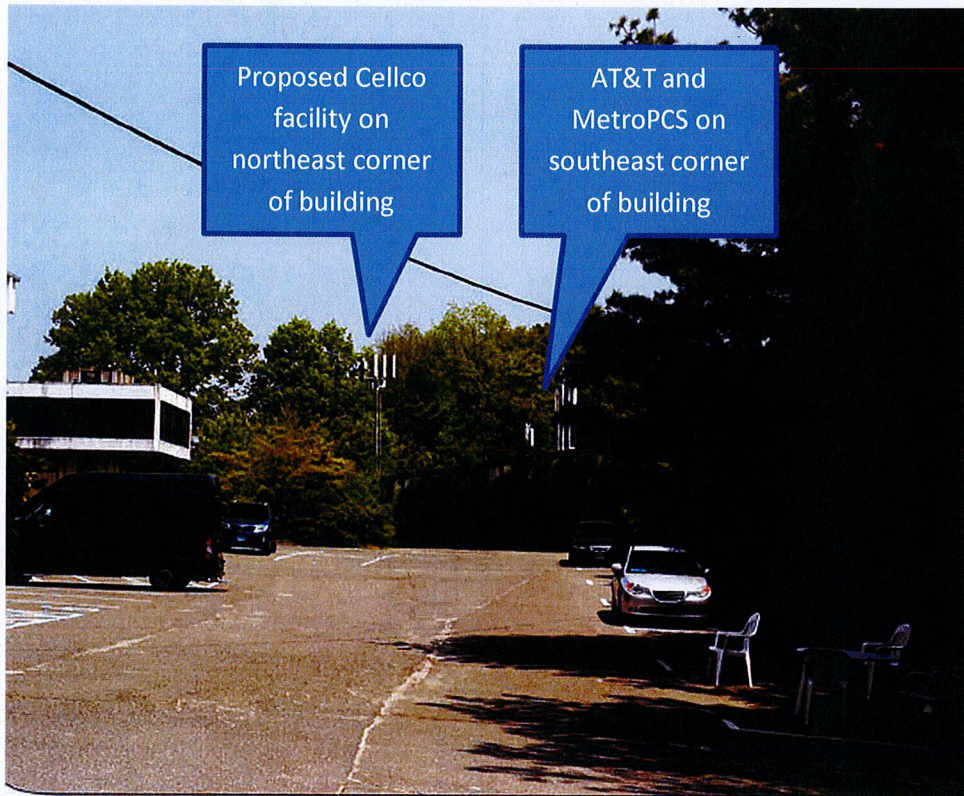
1. Implement erosion and sedimentation control measures (E&S controls) in accordance with the *2002 Connecticut Guidelines for Soil Erosion and Sediment Control*;
2. Employ a qualified environmental professional to provide environmental compliance awareness training to the contractor and independently inspect erosion controls to document proper installation;
3. Use of off-road construction equipment that meets the latest EPA or California Air Resources Board standards, or in the alternative, equipment with the best available controls on diesel emissions, including, but not limited to, retrofitting with diesel oxidation catalysts, particulate filters and use of ultra-low sulfur fuel;
4. Compliance with the provisions of Section 22a-174-18(b)(3)(C) of the Regulations of Connecticut State Agencies that limit the idling of mobile sources to 3 minutes; and
5. Approval of any minor project changes shall be delegated to Council staff.



Site Location



**Photo-simulation as viewed from west end of parking area on property**



LOCATION	ORIENTATION	DISTANCE TO SITE
HOST PROPERTY	EAST	+/- 430 FEET

# **ATTACHMENT 2**

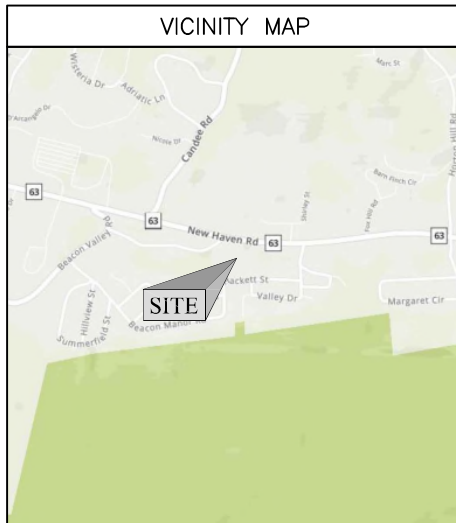
**DO NOT SCALE DRAWINGS**

CONTRACTOR SHALL VERIFY ALL PLANS & EXISTING DIMENSIONS & CONDITIONS ON THE JOB SITE & SHALL IMMEDIATELY NOTIFY THE PROJECT OWNERS REPRESENTATIVE IN WRITING OF DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

**SHEET INDEX**

SHEET NUMBER	SHEET DESCRIPTION
T-1	TITLE SHEET
A-1	ROOFTOP PLAN & BUILDING ELEVATION
A-2	ANTENNA PLAN, DETAILS & NOTES
A-3	ANTENNA SECTOR CONFIGURATIONS, DETAILS & NOTES
A-4	RET SYSTEM WIRING SCHEMATIC

**VICINITY MAP**



APPLICANT:  
CELLCO PARTNERSHIP d/b/a  
VERIZON WIRELESS

SCOPE OF WORK:  
PROPOSED EQUIPMENT & ANTENNA MODIFICATIONS  
TO AN EXISTING VERIZON WIRELESS INSTALLATION  
AT A 18'-6"± ROOFTOP

Digitally signed by Jiazhu Hu, Ph.D., P.E.  
DN: cn=Jiazhu Hu, Ph.D., P.E., o=Nexius,  
ou=Engineering, email=Jiazhu.Hu@Nexius.com,  
c=US  
Date: 2021.12.07 09:45:36 -05'00'

SITE NAME  
NAUGATUCK\_4\_CT

LOCATION CODE  
467170

SITE OWNER  
NAUGATUCK PARTNERS LLC

ADDRESS  
1247 NEW HAVEN ROAD  
NAUGATUCK, CT 06770

COORDINATES  
41° 28' 01.42" N  
73° 01' 11.34" W

**NOTES**

**GENERAL NOTES:**

- 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.
- 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.
- DRAWINGS PROVIDED HERE ARE NOT TO BE SCALED AND ARE INTENDED TO SHOW OUTLINE ONLY.
- UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
- 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.
- THE SUBCONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
- 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.
- 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.
- 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.
- SUBCONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION.
- ALL CONCRETE REPAIR WORK SHALL BE DONE IN ACCORDANCE WITH AMERICAN CONCRETE INSTITUTE (ACI) 301.
- 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.

- 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 GRADE B (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.
- 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.
- 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.
- IF 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.
- APPLICABLE BUILDING CODES:  
SUBCONTRACTOR'S WORK SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION (LAJ) FOR THE LOCATION. THE EDITION OF THE LAJ ADOPTED CODES AND STANDARDS IN EFFECT ON THE DATE OF CONTRACT AWARD SHALL GOVERN THE DESIGN.  
BUILDING CODE: 2018 CONNECTICUT STATE BUILDING CODE (IBC 2015)  
ELECTRICAL CODE: REFER TO ELECTRICAL DRAWINGS  
LIGHTNING CODE: REFER TO ELECTRICAL DRAWINGS  
SUBCONTRACTOR'S WORK SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING STANDARDS:  
ACI 318-14: BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE.  
ASC 360-10: SPECIFICATIONS STEEL FOR STRUCTURAL STEEL BUILDINGS.  
ANSI/TIA-222-G WITH ADDENDUMS, STRUCTURAL STANDARD FOR ANTENNA SUPPORTING STRUCTURES AND ANTENNAS.

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.

**ELECTRICAL & GROUNDING NOTES**

- ALL ELECTRICAL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE (NEC) AS WELL AS APPLICABLE STATE AND LOCAL CODES.
- ALL ELECTRICAL ITEMS SHALL BE U.L. APPROVED OR LISTED AND PROCURED PER SPECIFICATION REQUIREMENTS.
- THE ELECTRICAL WORK INCLUDES ALL LABOR AND MATERIAL DESCRIBED BY DRAWINGS AND SPECIFICATION INCLUDING INCIDENTAL WORK TO PROVIDE COMPLETE OPERATING AND APPROVED ELECTRICAL SYSTEM.
- GENERAL CONTRACTOR SHALL PAY FEES FOR PERMITS, AND IS RESPONSIBLE FOR OBTAINING SAID PERMITS AND COORDINATION OF INSPECTIONS.
- ALL EQUIPMENT LOCATED OUTSIDE SHALL HAVE NEMA 3R ENCLOSURE.
- GROUNDING SHALL COMPLY WITH NEC ART. 250.
- GROUND COAXIAL CABLE SHIELDS MINIMUM AT BOTH ENDS USING MANUFACTURERS COAX CABLE GROUNDING KITS SUPPLIED BY PROJECT OWNER.
- USE #6 COPPER STRANDED WIRE WITH GREEN COLOR INSULATION FOR ABOVE GRADE GROUNDING (UNLESS OTHERWISE SPECIFIED) AND #2 SOLID TINNED BARE COPPER WIRE FOR BELOW GRADE GROUNDING AS INDICATED ON THE DRAWING.
- ALL GROUND CONNECTIONS TO BE BURNDY HYGROUND COMPRESSION TYPE CONNECTORS OR CADWELD EXOTHERMIC WELD. DO NOT ALLOW BARE COPPER WIRE TO BE IN CONTACT WITH GALVANIZED STEEL.
- ROUTE GROUNDING CONDUCTORS ALONG THE SHORTEST AND STRAIGHTEST PATH POSSIBLE. GROUNDING LEADS SHOULD NEVER BE BENT AT RIGHT ANGLE. ALWAYS MAKE AT LEAST 12" RADIUS BENDS. #6 WIRE CAN BE BENT AT 6" RADIUS WHEN NECESSARY. BOND ANY METAL OBJECTS WITHIN 7 FEET OF PROPOSED EQUIPMENT OR CABINET TO MASTER GROUND BAR.
- CONNECTIONS TO MGB SHALL BE ARRANGED IN THREE MAIN GROUPS: SURGE PRODUCERS (COAXIAL CABLE GROUND KITS, TELCO AND POWER PANEL GROUND); (GROUNDING ELECTRODE RING OR BUILDING STEEL); NON-SURGING OBJECTS (EGG GROUND IN BITS UNIT).
- CONNECTIONS TO GROUND BARS SHALL BE MADE WITH TWO HOLE COMPRESSION TYPE COPPER LUGS. APPLY OXIDE INHIBITING COMPOUND TO ALL LOCATIONS.
- APPLY OXIDE INHIBITING COMPOUND TO ALL COMPRESSION TYPE GROUND CONNECTIONS.
- BOND ANTENNA MOUNTING BRACKETS, COAXIAL CABLE GROUND KITS, AND ALNA TO EGG PLACED NEAR THE ANTENNA LOCATION.
- BOND ANTENNA EGB'S AND MGB TO WATER MAIN.
- TEST COMPLETED GROUND SYSTEM AND RECORD RESULTS FOR PROJECT CLOSE-OUT DOCUMENTATION.
- BOND ANY METAL OBJECTS WITHIN 7 FEET OF PROPOSED EQUIPMENT OR CABINET TO MASTER GROUND BAR.

PREPARED BY:

**nexius**  
TRANSFORM YOUR BUSINESS...THROUGH WIRELESS

A&E OFFICE:  
300 APOLLO DRIVE, SUITE 7  
CHELMSFORD, MA 01824  
1 (978) 923-7965

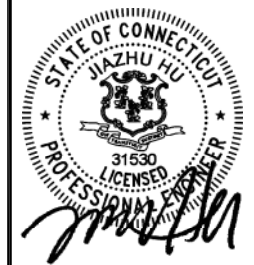
APPLICANT:

CELLCO PARTNERSHIP d/b/a

**verizon**

118 FLANDERS ROAD, 3<sup>RD</sup> FLOOR  
WESTBOROUGH, MA 01581

PROFESSIONAL STAMP:



THIS DOCUMENT IS THE DESIGN PROPERTY AND COPYRIGHT OF NEXIUS AND FOR THE EXCLUSIVE USE OF THE TITLE CLIENT. REPLICATION OR USE WITHOUT THE EXPRESS WRITTEN CONSENT OF THE CREATOR IS STRICTLY PROHIBITED.

DRAWING SCALES ARE INTENDED FOR 22"x34" SIZE PRINTED MEDIA ONLY. 11"x17" IS DEEMED HALF SCALE, AND ALL OTHER PRINTED SIZES ARE DEEMED "NOT TO SCALE".

SUBMITTALS			
REV	DATE	DESCRIPTION	BY
0	08/12/21	FOR CONSTRUCTION	AA
1	12/07/21	REVISED PER COMMENTS	AA

SITE INFORMATION:  
SITE NAME:  
**NAUGATUCK\_4\_CT**  
LOCATION CODE:  
**467170**  
SITE ADDRESS:  
**1247 NEW HAVEN ROAD  
NAUGATUCK, CT 06770**

DRAWN BY: AA DATE: 12/07/21

CHECKED BY: KB DATE: 12/07/21

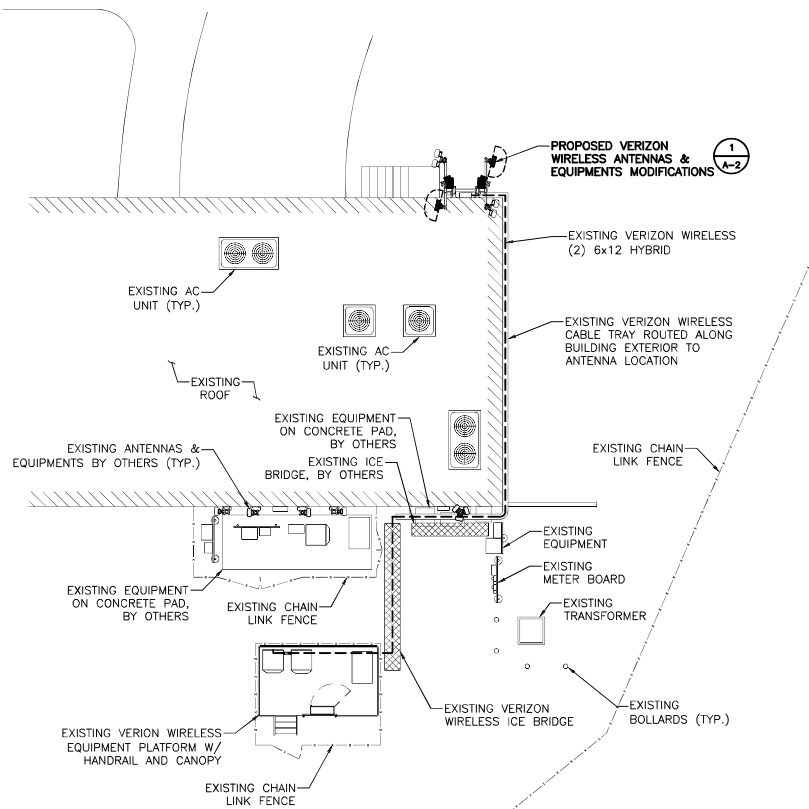
NEXIUS PROJECT NO.: VZ11509

SHEET TITLE:  
**TITLE SHEET**

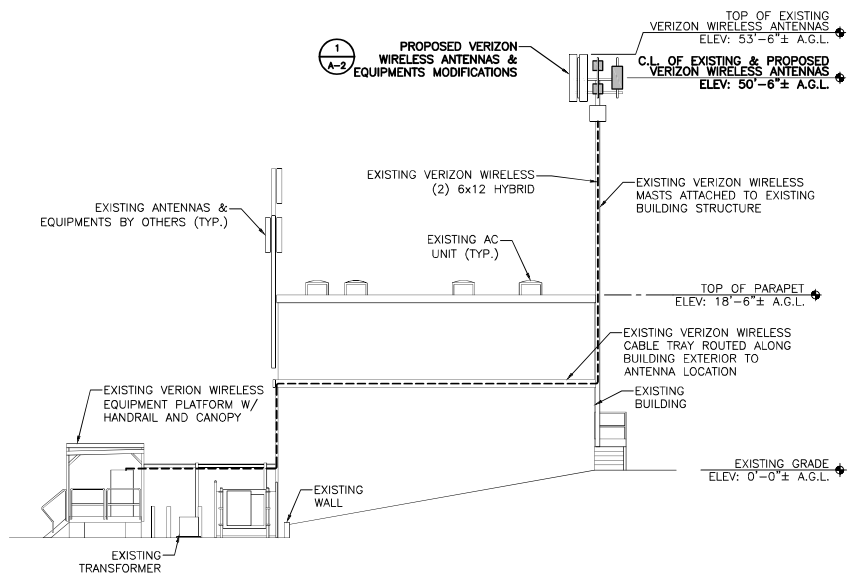
SHEET NUMBER:  
**T-1**

STRUCTURAL ANALYSIS REPORT PREPARED BY NEXIUS  
 STRUCTURAL ANALYSIS REPORT, PREPARED BY NEXIUS, ENTITLED STRUCTURAL  
 ANALYSIS REPORT, DATED DECEMBER 7, 2021, STATES THAT THE EXISTING  
 BUILDING IS ADEQUATE FOR THE EXISTING AND PROPOSED LOADING.

MOUNT STRUCTURAL ANALYSIS PREPARED BY NEXIUS  
 STRUCTURAL ANALYSIS REPORT, PREPARED BY NEXIUS, ENTITLED MOUNT STRUCTURAL  
 ANALYSIS REPORT, DATED DECEMBER 7, 2021, STATES THAT THE EXISTING  
 MOUNTS ARE ADEQUATE FOR THE EXISTING AND PROPOSED LOADING.



1 ROOFTOP PLAN  
 SCALE: 1/8" = 1'-0"



2 BUILDING ELEVATION  
 SCALE: 1/8" = 1'-0"

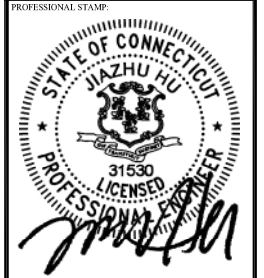


PREPARED BY:  
**nexius**  
 TRANSFORM YOUR BUSINESS...THROUGH WIRELESS

A&E OFFICE:  
 300 APOLLO DRIVE, SUITE 7  
 CHELMSFORD, MA 01824  
 1 (978) 923-7965

APPLICANT:  
 CELLCO PARTNERSHIP d/b/a

**verizon**  
 118 FLANDERS ROAD, 3<sup>RD</sup> FLOOR  
 WESTBOROUGH, MA 01581



THIS DOCUMENT IS THE DESIGN PROPERTY AND COPYRIGHT OF NEXIUS AND FOR THE EXCLUSIVE USE OF THE TITLE CLIENT. DUPLICATION OR USE WITHOUT THE EXPRESS WRITTEN CONSENT OF THE CREATOR IS STRICTLY PROHIBITED.

DRAWING SCALES ARE INTENDED FOR 22"x34" SIZE PRINTED MEDIA ONLY. 11"x17" IS DEEMED HALF SCALE, AND ALL OTHER PRINTED SIZES ARE DEEMED "NOT TO SCALE".

SUBMITTALS

REV	DATE	DESCRIPTION	BY
0	08/12/21	FOR CONSTRUCTION	AA
1	12/07/21	REVISED PER COMMENTS	AA

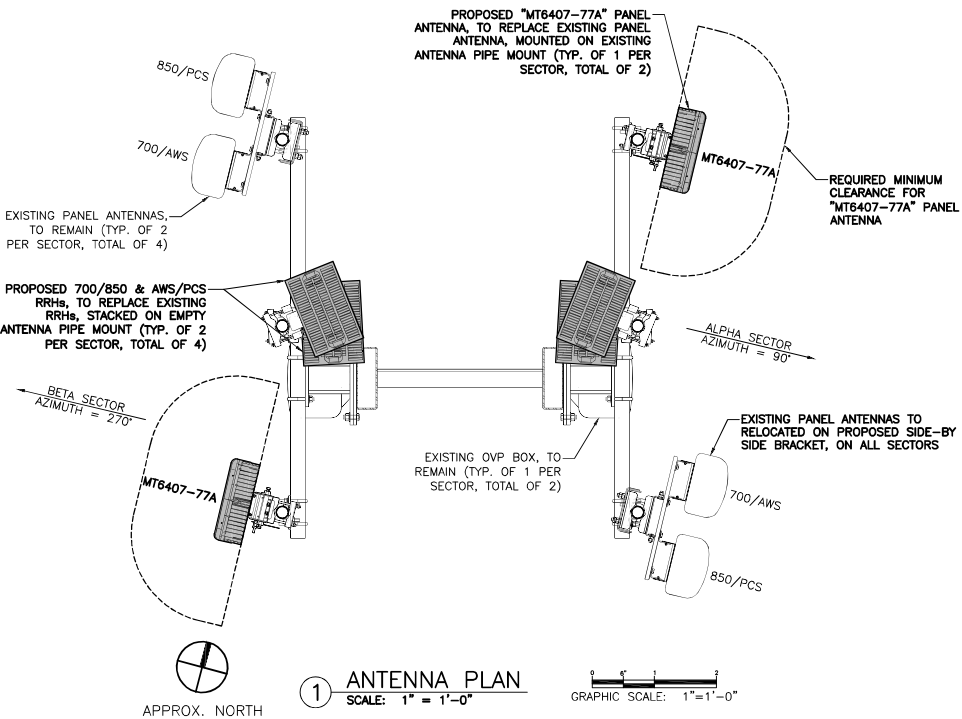
SITE INFORMATION:  
 SITE NAME:  
**NAUGATUCK\_4\_CT**  
 LOCATION CODE:  
**467170**  
 SITE ADDRESS:  
**1247 NEW HAVEN ROAD  
 NAUGATUCK, CT 06770**

DRAWN BY: AA	DATE: 12/07/21
CHECKED BY: KB	DATE: 12/07/21

NEXIUS PROJECT NO.:  
 VZ11509

SHEET TITLE:  
**ROOFTOP PLAN &  
 BUILDING ELEVATION**

SHEET NUMBER:  
**A-1**



1 ANTENNA PLAN  
SCALE: 1" = 1'-0"

SCOPE OF WORK:

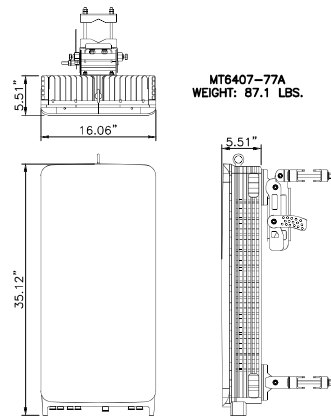
ALPHA SECTOR:

- REMOVE (1) EXISTING PANEL ANTENNAS.
- REMOVE (2) EXISTING RRHs.
- INSTALL (1) NEW SAMSUNG "MT6407-77A" PANEL ANTENNA AS SHOWN ON PLANS.
- INSTALL (1) NEW COMMSCOPE BSAMNT-SBS-1-2 SIDE-BY-SIDE ANTENNA MOUNTING BRACKET FOR 700/AWS & 850/PCS ANTENNAS.
- INSTALL (1) RF4440D-13A B5/B13 700/850 RRH AT ANTENNAS, AS SHOWN ON PLANS.
- INSTALL (1) RF4439D-25A B2/B66A AWS/PCS RRH AT ANTENNAS, AS SHOWN ON PLANS.
- INSTALL (1) NEW SAMSUNG JUMPER FROM EXISTING 6C OVP BOX TO 700/850 RRH.
- INSTALL (1) NEW POWER CABLE FROM EXISTING 6C OVP BOX TO 700/850 RRH.
- INSTALL (1) NEW SAMSUNG JUMPER FROM EXISTING 6C OVP BOX TO AWS/PCS RRH.
- INSTALL (1) NEW POWER CABLE FROM EXISTING 6C OVP BOX TO AWS/PCS RRH.
- INSTALL (1) 1x2 HYBRID CABLE FROM EXISTING 6C OVP BOX TO "MT6407-77A" PANEL ANTENNA.
- INSTALL 1/2" ANTENNA JUMPERS, AS REQUIRED.

BETA SECTOR:

- REMOVE (1) EXISTING PANEL ANTENNAS.
- REMOVE (2) EXISTING RRHs.
- INSTALL (1) NEW SAMSUNG "MT6407-77A" PANEL ANTENNA AS SHOWN ON PLANS.
- INSTALL (1) NEW COMMSCOPE BSAMNT-SBS-1-2 SIDE-BY-SIDE ANTENNA MOUNTING BRACKET FOR 700/AWS & 850/PCS ANTENNAS.
- INSTALL (1) RF4440D-13A B5/B13 700/850 RRH AT ANTENNAS, AS SHOWN ON PLANS.
- INSTALL (1) RF4439D-25A B2/B66A AWS/PCS RRH AT ANTENNAS, AS SHOWN ON PLANS.
- INSTALL (1) NEW SAMSUNG JUMPER FROM EXISTING 6C OVP BOX TO 700/850 RRH.
- INSTALL (1) NEW POWER CABLE FROM EXISTING 6C OVP BOX TO 700/850 RRH.
- INSTALL (1) NEW SAMSUNG JUMPER FROM EXISTING 6C OVP BOX TO AWS/PCS RRH.
- INSTALL (1) NEW POWER CABLE FROM EXISTING 6C OVP BOX TO AWS/PCS RRH.
- INSTALL (1) 1x2 HYBRID CABLE FROM EXISTING 6C OVP BOX TO "MT6407-77A" PANEL ANTENNA.
- INSTALL 1/2" ANTENNA JUMPERS, AS REQUIRED.

DESIGN SHOWN HEREIN IS BASED OFF A REDS PROVIDED BY VERIZON WIRELESS DATED 07/20/21.



2 ANTENNA SPEC.  
(NOT TO EXCEED)  
SCALE: N.T.S.

PREPARED BY:

**nexius**  
TRANSFORM YOUR BUSINESS...THROUGH WIRELESS

A&E OFFICE:  
300 APOLLO DRIVE, SUITE 7  
CHELMSFORD, MA 01824  
1 (978) 923-7965

APPLICANT:  
CELLCO PARTNERSHIP d/b/a

**verizon**

118 FLANDERS ROAD, 3<sup>RD</sup> FLOOR  
WESTBOROUGH, MA 01581

PROFESSIONAL STAMP:

THIS DOCUMENT IS THE DESIGN PROPERTY AND COPYRIGHT OF NEXIUS AND FOR THE EXCLUSIVE USE BY THE TITLE CLIENT. DUPLICATION OR USE WITHOUT THE EXPRESS WRITTEN CONSENT OF THE CREATOR IS STRICTLY PROHIBITED.

DRAWING SCALES ARE INTENDED FOR 22"x34" SIZE PRINTED MEDIA ONLY. 11"x17" IS DEEMED HALF SCALE, AND ALL OTHER PRINTED SIZES ARE DEEMED "NOT TO SCALE".

SUBMITTALS

REV	DATE	DESCRIPTION	BY
0	08/12/21	FOR CONSTRUCTION	AA
1	12/07/21	REVISED PER COMMENTS	AA

SITE INFORMATION:

SITE NAME:  
**NAUGATUCK\_4\_CT**

LOCATION CODE:  
**467170**

SITE ADDRESS:  
**1247 NEW HAVEN ROAD  
NAUGATUCK, CT 06770**

DRAWN BY: AA DATE: 12/07/21

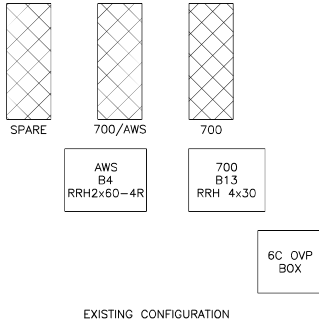
CHECKED BY: KB DATE: 12/07/21

NEXIUS PROJECT NO.: V211509

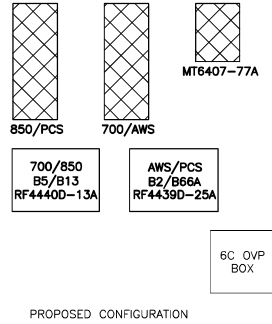
SHEET TITLE:  
**ANTENNA PLAN,  
DETAILS & NOTES**

SHEET NUMBER:  
**A-2**

NOTE: ALL ANTENNAS ARE VIEWED FROM THE FRONT

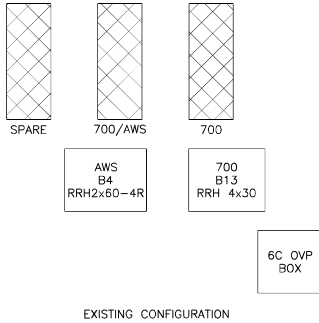


EXISTING CONFIGURATION

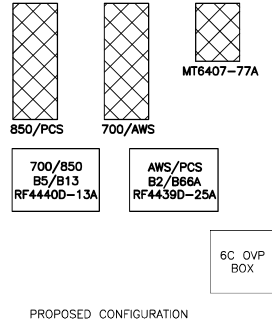


PROPOSED CONFIGURATION

ALPHA SECTOR ANTENNA CONFIGURATION



EXISTING CONFIGURATION



PROPOSED CONFIGURATION

BETA SECTOR ANTENNA CONFIGURATION

EXISTING CONFIGURATION

PROPOSED CONFIGURATION

GAMMA SECTOR ANTENNA CONFIGURATION

GENERAL NOTES:

1. INSTALL ALL EQUIPMENT, MOUNTING BRACKETS, AND HARDWARE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
2. GROUND DISTRIBUTION BOXES, MOUNTING PIPES, AND RRH'S IN ACCORDANCE WITH THE NEC ARTICLE 250 & THE EQUIPMENT MANUFACTURER'S RECOMMENDATIONS.
3. INSTALLED EQUIPMENT AND MOUNTING BRACKETS SHALL NOT INTERFERE WITH CLIMBING ACCESS NOR ANY INSTALLED SAFETY DEVICES.

PREPARED BY:  
**nexius**  
TRANSFORM YOUR BUSINESS...THROUGH WIRELESS

A&E OFFICE:  
300 APOLLO DRIVE, SUITE 7  
CHELMSFORD, MA 01824  
1 (978) 923-7965

APPLICANT:  
CELLCO PARTNERSHIP d/b/a

**verizon**

118 FLANDERS ROAD, 3<sup>RD</sup> FLOOR  
WESTBOROUGH, MA 01581

PROFESSIONAL STAMP:



THIS DOCUMENT IS THE DESIGN PROPERTY AND COPYRIGHT OF NEXIUS AND FOR THE EXCLUSIVE USE OF THE TITLE CLIENT. REPLICATION OR USE WITHOUT THE EXPRESS WRITTEN CONSENT OF THE CREATOR IS STRICTLY PROHIBITED.

DRAWING SCALES ARE INTENDED FOR 22"x34" SIZE PRINTED MEDIA ONLY. 11"x17" IS DEEMED HALF SCALE, AND ALL OTHER PRINTED SIZES ARE DEEMED "NOT TO SCALE".

SUBMITTALS

REV	DATE	DESCRIPTION	BY
0	08/12/21	FOR CONSTRUCTION	AA
1	12/07/21	REVISED PER COMMENTS	AA

SITE INFORMATION:  
SITE NAME:  
**NAUGATUCK\_4\_CT**  
LOCATION CODE:  
**467170**  
SITE ADDRESS:  
**1247 NEW HAVEN ROAD  
NAUGATUCK, CT 06770**

DRAWN BY: AA DATE: 12/07/21

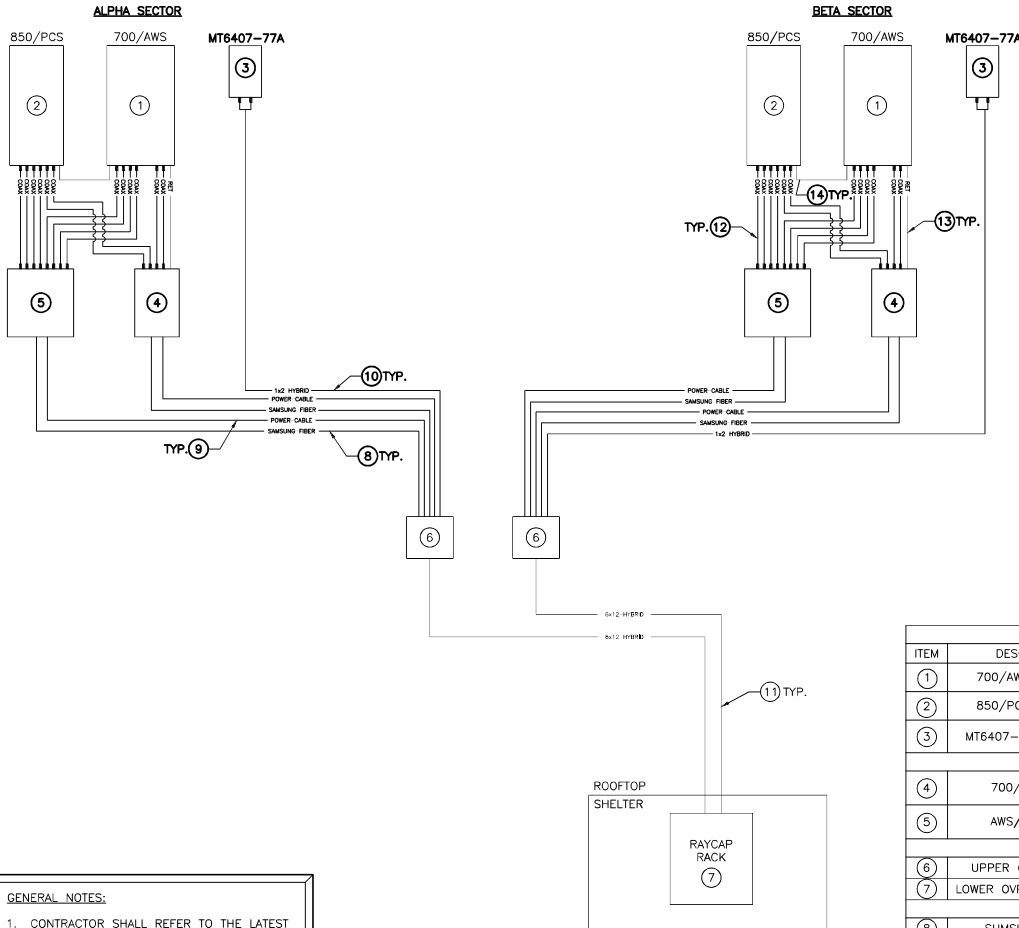
CHECKED BY: KB DATE: 12/07/21

NEXIUS PROJECT NO.:  
VZ11509

SHEET TITLE:  
**ANTENNA SECTOR  
CONFIGURATIONS, DETAILS  
& NOTES**

SHEET NUMBER:  
**A-3**

NOTE: ALL ANTENNAS ARE VIEWED FROM THE FRONT



**GENERAL NOTES:**

- CONTRACTOR SHALL REFER TO THE LATEST VERIZON WIRELESS RFDS WHICH MAY INCLUDE ANTENNA SECTOR AZIMUTHS/ANTENNA CHANGES, ETC. THAT ARE REQUIRED AS PART OF THE PROJECT.
- CONTRACTOR SHALL SECURE ALL CONTROL CABLES IN ACCORDANCE WITH INDUSTRY STANDARDS & MANUFACTURERS' INSTRUCTIONS. EXTERIOR CONTROL CABLES MAY BE TAPED OR TIE-WRAPPED TO EXISTING COAXIAL CABLES EVERY 4' MAX. FOR HORIZONTAL RUNS. CONTRACTOR MAY USE HOISTING GRIPS AT TOP OF VERTICAL CABLE RUNS IN CERTAIN APPLICATIONS.
- RET CABLES SHALL BE ROUTED & SECURED ON STRUCTURAL MEMBERS ONLY. DO NOT LOOP THE CABLES IN MID-AIR BETWEEN ANTENNAS.
- CONTRACTOR SHALL VERIFY ALL CABLE LENGTHS PRIOR TO CONSTRUCTION.

BILL OF MATERIALS					
ITEM	DESCRIPTION	EXISTING/PROPOSED	QTY.	LENGTH	COMMENTS
①	700/AWS ANTENNA	EXISTING	2	NA	EXISTING PANEL ANTENNA TO REMAIN
②	850/PCS ANTENNA	EXISTING	2	NA	EXISTING PANEL ANTENNA TO REMAIN
③	MT6407-77A ANTENNA	PROPOSED	2	NA	REPLACE EXISTING PANEL ANTENNA WITH SAMSUNG "MT6407-77A" PANEL ANTENNA
④	700/850 RRH	PROPOSED	2	NA	REPLACE EXISTING RRH W/ 700/850 SAMSUNG B5/B13 RRH RF4440D-13A AT ANTENNAS
⑤	AWS/PCS RRH	PROPOSED	2	NA	REPLACE EXISTING RRH W/ AWS/PCS SAMSUNG B2/B66A RRH RF4439D-25A AT ANTENNAS
⑥	UPPER 6C OVP BOX	EXISTING	2	NA	EXISTING OVP BOX, TO REMAIN
⑦	LOWER OVP RACK MOUNT	EXISTING	2	NA	EXISTING RAYCAP, TO REMAIN
⑧	SUMSUNG FIBER	PROPOSED	4	15'	INSTALL AT NEW 700/850 & AWS/PCS RRH
⑨	POWER CABLES	PROPOSED	4	15'	INSTALL AT NEW 700/850 & AWS/PCS RRH
⑩	1x2 HYBRID	PROPOSED	2	15'	INSTALL AT NEW "MT6407-77A" PANEL ANTENNA
⑪	6x12 HYBRID	EXISTING	2	NA	ROUTED FROM SHELTER TO ROOFTOP
⑫	1/2" COAX CABLES	PROPOSED	36	15' EA.	ROUTED AS SHOWN ON SCHEMATIC
⑬	RET CABLE	PROPOSED	2	6.6'± (2M)	ROUTED AS SHOWN ON SCHEMATIC
⑭	RET DAISY CHAIN	PROPOSED	2	1.5'± (0.5M)	ROUTED AS SHOWN ON SCHEMATIC
15	SIDE-BY-SIDE ANTENNA MOUNTING BRACKET	PROPOSED	2	NA	INSTALL COMMSCOPE BSAMNT-SBS-1-2 SIDE-BY-SIDE ANTENNA MOUNTING BRACKET FOR 700/AWS & 850/PCS ANTENNAS ONLY

1. ITEMS SHOWN ARE FOR MAJOR DESIGN ELEMENTS ONLY, REFER TO VERIZON WIRELESS' B.O.M. FOR ALL MANUFACTURERS PART NUMBERS & ACCESSORY ITEMS REQUIRED FOR A COMPLETE INSTALLATION.  
 2. CONTRACTOR SHALL REFER TO THE LATEST VERIZON WIRELESS RFDS WHICH MAY INCLUDE ANTENNA SECTOR AZIMUTHS/ANTENNA CHANGES, ETC. THAT ARE REQUIRED AS PART OF THE PROJECT.  
 \* SIGNIFIES LEASE ONLY.

PREPARED BY:  
**nexius**  
 TRANSFORM YOUR BUSINESS...THROUGH WIRELESS  
 A&E OFFICE:  
 300 APOLLO DRIVE, SUITE 7  
 CHELMSFORD, MA 01824  
 1 (978) 923-7965

APPLICANT:  
 CELLCO PARTNERSHIP d/b/a  
**verizon**  
 118 FLANDERS ROAD, 3<sup>RD</sup> FLOOR  
 WESTBOROUGH, MA 01581



THIS DOCUMENT IS THE DESIGN PROPERTY AND COPYRIGHT OF NEXIUS AND FOR THE EXCLUSIVE USE BY THE TITLE CLIENT. REPLICATION OR USE WITHOUT THE EXPRESS WRITTEN CONSENT OF THE CREATOR IS STRICTLY PROHIBITED.  
 DRAWING SCALES ARE INTENDED FOR 22"x34" SIZE PRINTED MEDIA ONLY. 11"x17" IS DEEMED HALF SCALE, AND ALL OTHER PRINTED SIZES ARE DEEMED "NOT TO SCALE".

SUBMITTALS

REV	DATE	DESCRIPTION	BY
0	08/12/21	FOR CONSTRUCTION	AA
1	12/07/21	REVISED PER COMMENTS	AA

SITE INFORMATION:  
 SITE NAME:  
**NAUGATUCK\_4\_CT**  
 LOCATION CODE:  
**467170**  
 SITE ADDRESS:  
**1247 NEW HAVEN ROAD  
 NAUGATUCK, CT 06770**

DRAWN BY: AA DATE: 12/07/21  
 CHECKED BY: KB DATE: 12/07/21

NEXIUS PROJECT NO.: VZ11509

SHEET TITLE:  
**RET SYSTEM WIRING SCHEMATIC**

SHEET NUMBER:  
**A-4**



# SAMSUNG

## 700/850MHZ MACRO RADIO

DUAL-BAND AND HIGH POWER  
FOR MACRO COVERAGE

Samsung's future proof dual-band radio is designed to help effectively increase the coverage areas in wireless networks. This 700/850MHz 4T4R dual-band radio has 4Tx/4Rx to 2Tx/2Rx RF chains options and a total output power of 320W, making it ideal for macro sites.

Model Code RF4440d-13A



Homepage  
[samsungnetworks.com](http://samsungnetworks.com)

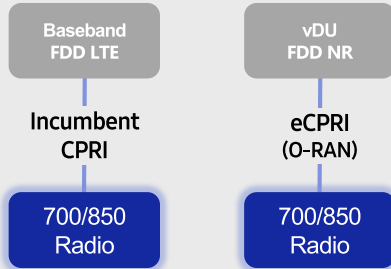


Youtube  
[www.youtube.com/samsung5g](http://www.youtube.com/samsung5g)

## Points of Differentiation

### Continuous Migration

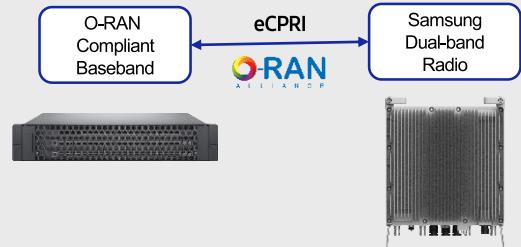
Samsung's 700/850MHz macro radio can support each incumbent CPRI interface as well as an advanced eCPRI interface. This feature provides installable options for both legacy LTE networks and added NR networks.



### O-RAN Compliant

A standardized O-RAN radio can help when implementing cost-effective networks because it is capable of sending more data without compromising additional investments.

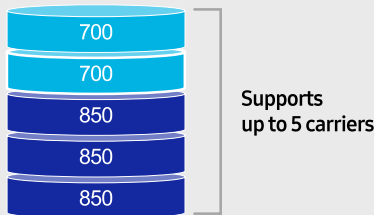
Samsung's state-of-the-art O-RAN technology will help accelerate the effort toward constructing a solid O-RAN ecosystem.



### Optimum Spectrum Utilization

The number of required carriers varies according to site (region). The ability to support many carriers is essential for using all frequencies that the operator has available.

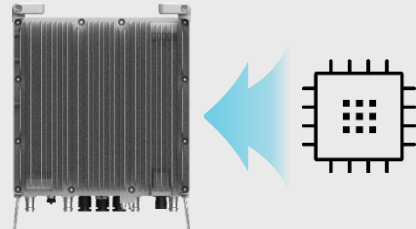
The new 700/850MHz dual-band radio can support up to 2 carriers in the B13 (700MHz) band and 3 carriers in the B5 (850MHz) band, respectively.



### Secured Integrity

Access to sensitive data is allowed only to authorized software.

The Samsung radio's CPU can protect root of trust, which is credential information to verify SW integrity, and secure storage provides access control to sensitive data by using dedicated hardware (TPM).



## Technical Specifications

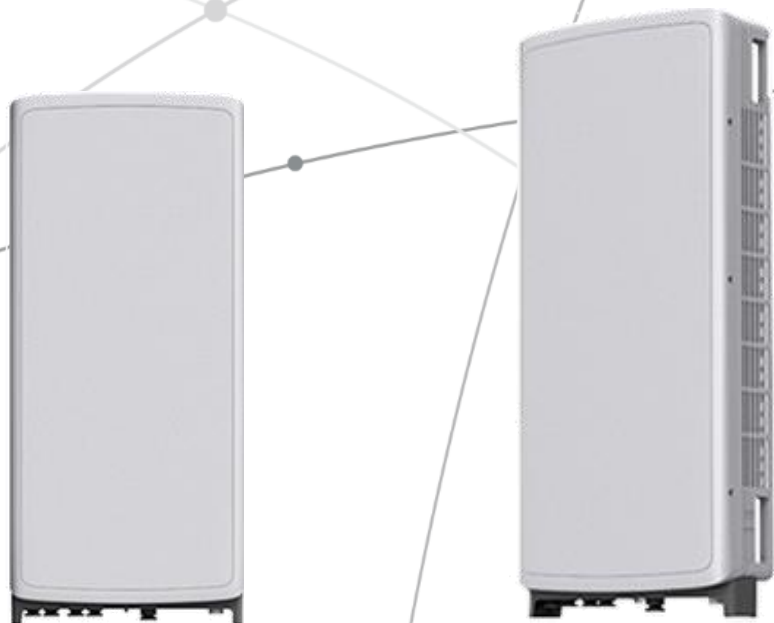
Item	Specification
Tech	LTE / NR
Brand	B13(700MHz), B5(850MHz)
Frequency Band	DL: 746 – 756MHz, UL: 777 – 787MHz DL: 869 – 894MHz, UL: 824 – 849MHz
RF Power	(B13) 4 × 40W or 2 × 60W (B5) 4 × 40W or 2 × 60W
IBW/OBW	(B13) 10MHz / 10MHz (B5) 25MHz / 25MHz
Installation	Pole, Wall
Size/Weight	14.96 x 14.96 x 9.05inch (33.2L) / 70.33 lb

## **SAMSUNG** C-Band 64T64R Massive MIMO Radio

for High Capacity and Wide Coverage

Samsung C-Band 64T64R Massive MIMO Radio enables mobile operators to increase coverage range, boost data speeds and ultimately offer enriched 5G experiences to users in the U.S..

Model Code : MT6407-77A



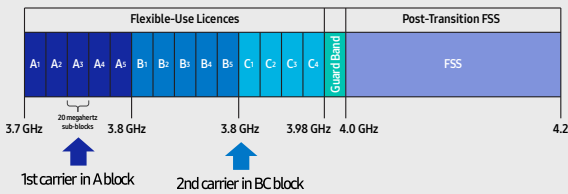
# Points of Differentiation

## Wide Bandwidth

With capability to support up to 2 CC carrier configuration, Samsung C-Band massive MIMO Radio supports 200 MHz bandwidth in the C-Band spectrum.

Samsung C-Band massive MIMO Radio covers the entire C-Band 280 MHz spectrum, so it can meet the operator's needs in current A block and future B/C blocks

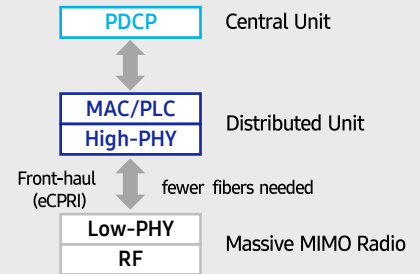
C-Band spectrum supported by Massive MIMO Radio



## Future Proof Product

Samsung C-Band 64T64R Massive MIMO radio supports not only CPRI but also eCPRI as front-haul interface.

It enables operators can cut down on OPEX/CAPEX by reducing front-haul bandwidth through low layer split and using ethernet based higher efficient line.

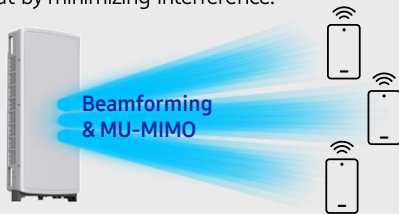


## Enhanced Performance

C-Band massive MIMO Radio creates sharp beams and extends networks' coverage on the critical mid-band spectrum using a large number of antenna elements and high output power to boost data speeds.

This helps operators reduce their CAPEX as they now need less products to cover the same area than before.

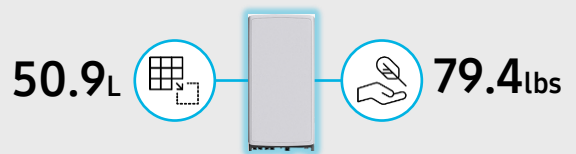
Furthermore, as C-Band massive MIMO Radio supports MU-MIMO (Multi-user MIMO), it enables to increase user throughput by minimizing interference.



## Well Matched Design

Samsung C-Band Massive MIMO radio utilizes 64 antennas, supports up to 280MHz bandwidth, and delivers a 200W output power. Despite the above advanced performance, the Radio has a compact size of 50.9L and 79.4lbs. This makes it easy to install the Radio.

It is designed to look solid and compact, with a low profile appearance so that, when installed, harmonizes well with the surrounding environment.



# Technical Specifications

Item	Specification
Tech	NR
Band	n77
Frequency Band	3700 - 3980 MHz
EIRP	78.5dBm (53.0 dBm+25.5 dBi)
IBW/OBW	280 MHz / 200 MHz
Installation	Pole/Wall
Size/Weight	16.06 x 35.06 x 5.51 inch (50.86L) / 79.4 lbs



# SAMSUNG



## **About Samsung Electronics Co., Ltd.**

Samsung inspires the world and shapes the future with transformative ideas and technologies. The company is redefining the worlds of TVs, smartphones, wearable devices, tablets, digital appliances, network systems, and memory, system LSI, foundry and LED solutions.

129 Samsung-ro, Yeongtong-gu, Suwon-si Gyeonggi-do, Korea

## **© 2021 Samsung Electronics Co., Ltd.**

All rights reserved. Information in this leaflet is proprietary to Samsung Electronics Co., Ltd. and is subject to change without notice. No information contained here may be copied, translated, transcribed or duplicated by any form without the prior written consent of Samsung Electronics.

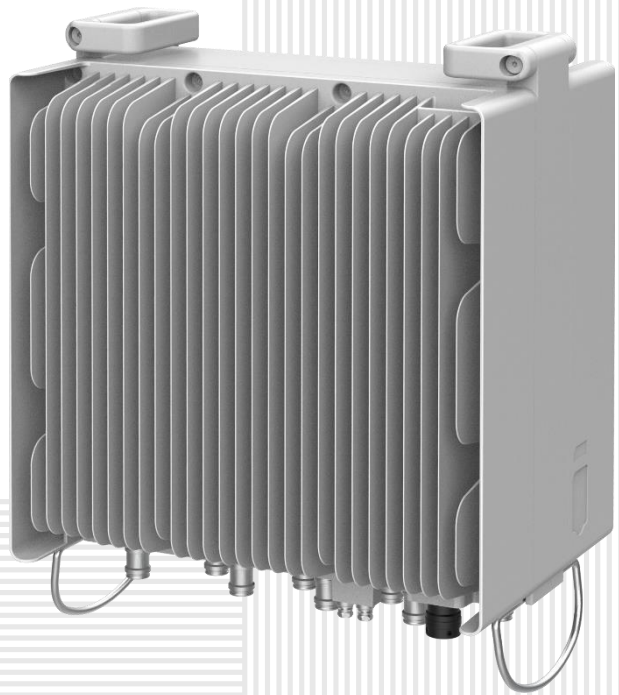
# SAMSUNG

## AWS/PCS MACRO RADIO

DUAL-BAND AND HIGH POWER  
FOR MACRO COVERAGE

Samsung's future proof dual-band radio is designed to help effectively increase the coverage areas in wireless networks. This AWS/PCS 4T4R dual-band radio has 4Tx/4Rx to 2Tx/2Rx RF chains options and a total output power of 320W, making it ideal for macro sites.

Model Code RF4439d-25A



Homepage  
[samsungnetworks.com](http://samsungnetworks.com)

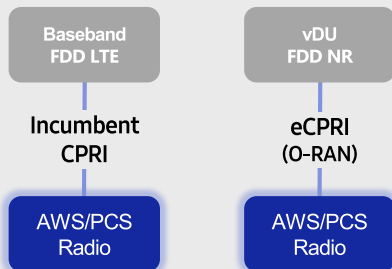


Youtube  
[www.youtube.com/samsung5g](http://www.youtube.com/samsung5g)

## Points of Differentiation

### Continuous Migration

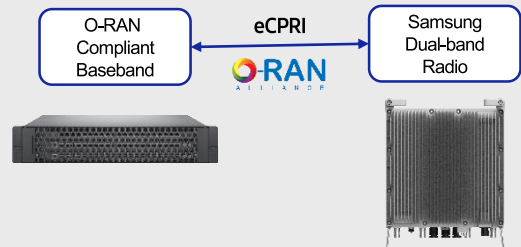
Samsung's AWS/PCS macro radio can support each incumbent CPRI interface as well as advanced eCPRI interfaces. This feature provides installable options for both legacy LTE networks and added NR networks.



### O-RAN Compliant

A standardized O-RAN radio can help in implementing cost-effective networks, which are capable of sending more data without compromising additional investments.

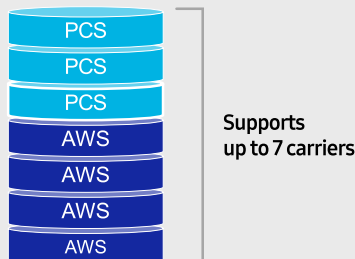
Samsung's state-of-the-art O-RAN technology will help accelerate the effort toward constructing a solid O-RAN ecosystem.



### Optimum Spectrum Utilization

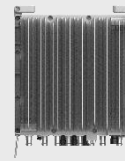
The number of required carriers varies according to site (region). Supporting many carriers is essential for using all frequencies that the operator has available.

The new AWS/PCS dual-band radio can support up to 3 carriers in the PCS (1.9GHz) band and 4 carriers in the AWS (2.1GHz) band, respectively.



### Brand New Features in a Compact Size

Samsung's AWS/PCS macro radio offers several features, such as dual connectivity for baseband for both CDU and vDU, O-RAN capability, more carriers and an enlarged PCS spectrum, combined into an incumbent radio volume of 36.8L.



- 2 FH connectivity
- O-RAN capability
- More carriers and spectrum

Same as an incumbent radio volume

## Technical Specifications

Item	Specification
Tech	LTE / NR
Brand	B25(PCS), B66(AWS)
Frequency Band	DL: 1930 – 1995MHz, UL: 1850 – 1915MHz DL: 2110 – 2200MHz, UL: 1710 – 1780MHz
RF Power	(B25) 4 × 40W or 2 × 60W (B66) 4 × 60W or 2 × 80W
IBW/OBW	(B25) 65MHz / 30MHz (B66) DL 90MHz, UL 70MHz / 60MHz
Installation	Pole, Wall
Size/Weight	14.96 x 14.96 x 10.04inch (36.8L) / 74.7lb

# **ATTACHMENT 3**













# **ATTACHMENT 4**



# Structural Analysis Report

**Property Owner** Naugatuck Partners LLC  
**Structural Type** 51 ft Antenna Mast  
**Site Address** 1247 New Haven Rd  
Naugatuck, CT 06770  
**Latitude** 41.4670611  
**Longitude** -73.019816

**Client** **Verizon Wireless**  
*118 Flanders Road, 3rd Floor*  
*Westborough, MA 01581*  
**Site Type** MACRO  
**Site ID** 2451956  
**Site Name** NAUGATUCK\_4\_CT  
**Location Code** 467170

**Prepared by** Nexius Solutions, Inc.  
*2595 North Dallas Parkway Suite 300*  
*Frisco, TX 75034*  
**Job/Task Number** VZW467170A01-NX062  
**Rev** 1  
**Email** structurals@nexius.com  
**Phone** 972-581-9888  
**Date** 12/07/2021  
**Result** **PASS (97%)**

# NEXIUS

**Dear Sir / Madam:**

Nexius Solutions is pleased to submit this **Report** to determine the structural integrity of the referred tower. Referenced documents used for this analysis are listed in the section DOCUMENTS & REFERENCES. This analysis has been performed in compliance with

- *2018 Connecticut State Building Code (IBC 2015 w/ State Amendments)*
- *ANSI/TIA-222-G w/ Addendums, Structural Standard for Antenna Supporting Structures and Antennas.*

Detailed design parameters are listed in Table 1. Analysis loading is detailed in Table 2 and Table 3.

Based on our analysis we have determined the following result:

51-ft Tall Antenna Mast

**Adequate (97%)**

Nexius Solutions appreciates the opportunity of providing continued engineering services. Should you have any questions, comments or require additional information, please do not hesitate to contact us.

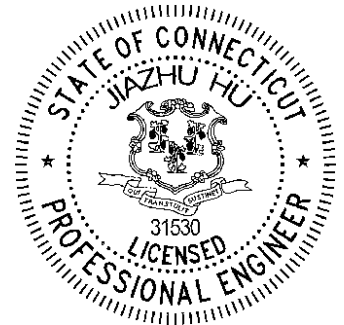
Sincerely,

Analysis Prepared by:

Akshay Doddamani, E.I.T

Approved by:

Jiazhu Hu, P.E.  
Engineering Manager  
License #: 31530



Digitally signed by Jiazhu Hu, Ph.D., P.E.  
DN: cn=Jiazhu Hu, Ph.D., P.E., o=Nexius,  
ou=Engineering,  
email=Jiazhu.Hu@Nexius.com, c=US  
Date: 2021.12.07 09:36:47 -05'00'



## DOCUMENTS & REFERENCES

- Construction Drawings (FOR CONSTRUCTION), Location Code: 467170, Verizon Site Name: NAUGATUCK\_4\_CT, by Nexius, dated 12/07/2021.
- Site Visit Pictures & Notes, Location Code: 467170, Verizon Site Name: NAUGATUCK\_4\_CT, by Nexius dated 08/04/2021.
- RFDS, Location Code: 467170, Site Name: NAUGATUCK\_4\_CT by Verizon Wireless, dated 07/20/2021.
- Framing Drawings, Job: Verizon Naugatuck 4, by Jakeweld Corp. dated 01/25/2017.
- Structural Analysis Report, Rev.0, Location Code: 467170, Verizon Site Name: NAUGATUCK\_4\_CT, by Nexius, dated 08/12/2021.
- Mount Analysis Report, Rev.1, Location Code: 467170, Verizon Site Name: NAUGATUCK\_4\_CT, by Nexius, dated 12/07/2021.

## DESIGN STANDARDS & PARAMETERS

**TABLE 1 STANDARDS & DESIGN PARAMETERS**

Codes and Standards	
Building Code	2018 Connecticut State Building Code (IBC 2015 w/ State Amendments)
TIA Standard	ANSI/TIA-222-G w/ Addendums
Wind Parameters	
Ultimate Wind Speed	122 mph
Nominal Wind Speed	95 mph
Nominal Wind Speed with Ice	50 mph
Radial Ice Thickness	0.75 in
Exposure Category	B
Structure Class	II
Topographic Category	1
Seismic Design Parameters	
S <sub>s</sub>	0.19
S <sub>1</sub>	0.064

## RESULTS & RECOMMENDATIONS

Proposed loading replaces existing loading of similar size and weight. It is assumed that the existing structure is properly designed, installed, and maintained as per original design and sufficient for existing loading. Based on our analysis, it is determined that the existing structure to be **ADEQUATE** to support the existing and proposed loading.

All structural components and connections should be checked for tightness and good condition prior to installing any proposed loading. The analysis is performed based on structural information obtained from provided drawings, site visit and some measurements. The analysis assumes that the provided information is accurate. If the site conditions are different from assumptions or do not meet requirements, the analysis result would not be valid and Nexius should be notified for re-evaluation.

TABLE 2 LOADING

Mount Elev. ft	Ant. Ctr. Elev. ft	Qty	Description	Mount Type	Status
50.5	50.5	2	Samsung MT6407-77A Antenna w/ RRH*	5.83-ft Standoff Mounts	Proposed
		2	Samsung RF4439d-25A		
		2	Samsung RF4440d-13A		
		4	CommScope SBNHH-1D65B**		Existing to remain
		2	<i>CommScope SBNHH-1D65B</i>		Existing to be Removed
		2	<i>Nokia UHBA B13 RRH 4x30</i>		
		2	<i>Nokia UHIC B4 RRH 2x60-4R</i>		
46.0	46.0	2	6C OVP Box	Installed on Antenna Mast	Existing to remain

\*\_ Not to exceed 35.12"x16.06"x5.51" for dimensions and 87.1 lbs for weight.

\*\*\_ Installed on side-by-side (SBS) antenna mounting brackets.

## ANALYSIS

RISA-3D, a commercially available finite element method-based software package for structural analysis, was used to create a three-dimensional model of the structure and calculate member stresses for required loading cases. Selected output from the analysis is included in APPENDICES.

## Standard Conditions for Providing Structural Consulting Services on Existing Structures

1. The structure is analyzed to the best of our ability using all information that is provided or can be obtained during fieldwork (if authorized by client). If the existing conditions are not as we have represented in this analysis, the analysis would not be valid, and we should be contacted to evaluate the significance of the deviation and revise the assessment accordingly.
2. The structural analysis has been performed assuming that the structural members, parts and component were originally designed properly and are all in “like new” condition. No allowance was made for excessive corrosion, damaged or missing structural members, loose bolts, misaligned parts, or any reduction in strength due to the age or fatigue of the product.
3. The structural analysis provided is an assessment of the primary load carrying capacity of the structural members, components and parts. We provided a limited scope of service. In some cases, we cannot verify the capacity of every weld, plate, connection detail, etc. In some cases, structural fabrication details are unknown at the time of our analysis, and the detailed field measurement of some of the required details may not be possible. In instances where we cannot perform connection capacity calculations, it is assumed that the existing manufactured connections develop the full capacity of the primary members being connected.
4. We cannot be held responsible for structural members, components and parts that are installed improperly, are loose or have a tendency of working loose over the lifetime. Our analysis has been performed assuming fully tightened connections, and proper installation per manufacturer’s instructions.
5. The structural analysis has been performed using information currently provided by the client and potentially field verified. We have been provided with a loading arrangement for all telecommunications equipment on the structure. Our analysis has been based upon a particular loading arrangement provided. We are not responsible for deviations in the loading arrangements that may occur over time. If deviations in loading arrangements are proposed, then the analysis would not be valid and we should be contacted to revise the analysis.
6. We cannot be held responsible for temporary and unbalanced loads on structure. Our analysis is based on a particular loading arrangement or as-build field condition. We are not responsible for the methods and means of how the loading arrangement is accomplished by the contractor. These methods and means may include rigging of equipment or hardware to lift and locate, temporary hanging of equipment in locations other than the final arrangement, movement and tie off of tower riggers, personnel, and their equipment, etc.
7. It is assumed that all welded connections are performed in the shop under the latest American Welding Society Code. No field welds are permitted or assumed for the existing pre-manufactured equipment.
8. Steel grade and strength are unknown and cannot be field tested. We cannot be held responsible for equipment manufactured from inferior steel or bolts. Our analysis assumes that standard structural grade steel has been used by the equipment manufacturer for all assembled parts of the mounting apparatus. Acceptable steels and connection components are specified by the American Institute of Steel Construction. In case no accurate info available, following material assumptions were used:

Pipe	ASTM A53 B-42
Connection Bolts	ASTM A325

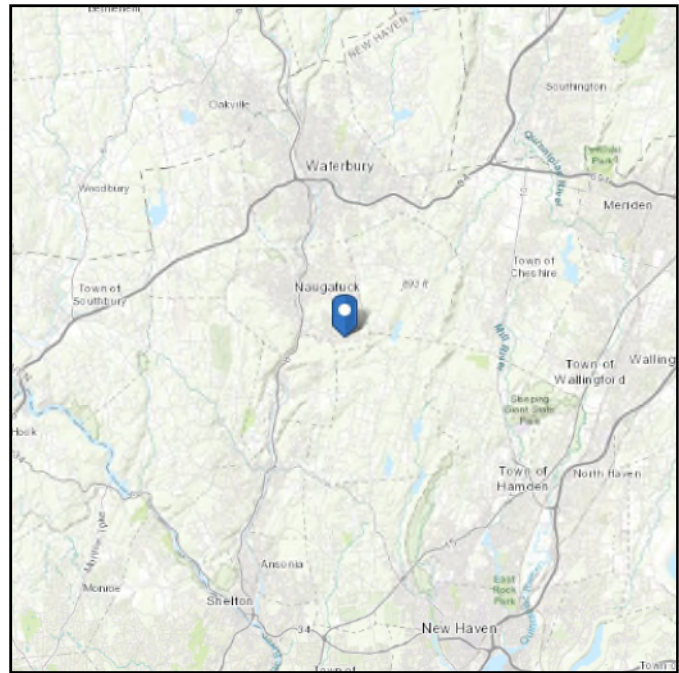
## **Appendix #1: Loading Parameters and Calculations**

# ASCE 7 Hazards Report

**Address:**  
No Address at This Location

**Standard:** ASCE/SEI 7-10  
**Risk Category:** II  
**Soil Class:** D - Stiff Soil

**Elevation:** 329.5 ft (NAVD 88)  
**Latitude:** 41.467061  
**Longitude:** -73.019817



## Wind

### Results:

Wind Speed:	122 Vmph
10-year MRI	76 Vmph
25-year MRI	86 Vmph
50-year MRI	92 Vmph
100-year MRI	99 Vmph

Date Accessed: ~~ASCE 7-10~~ **ASCE 7-22** Fig. 26.5-1A and Figs. CC-1–CC-4, and Section 26.5.2, incorporating errata of March 12, 2014

Value provided is 3-second gust wind speeds at 33 ft above ground for Exposure C Category, based on linear interpolation between contours. Wind speeds are interpolated in accordance with the 7-10 Standard. Wind speeds correspond to approximately a 7% probability of exceedance in 50 years (annual exceedance probability = 0.00143, MRI = 700 years).

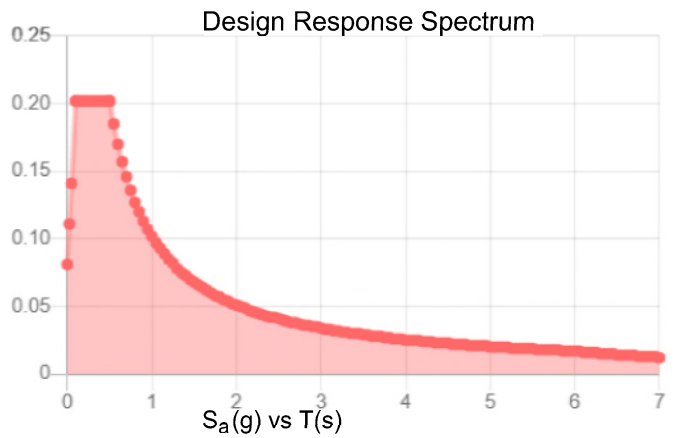
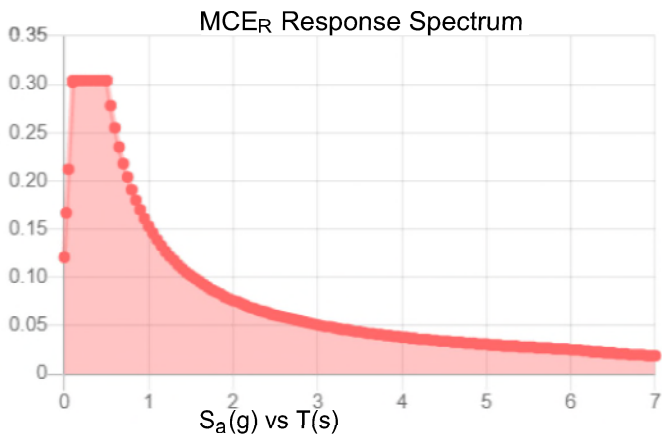
Site is in a hurricane-prone region as defined in ASCE/SEI 7-10 Section 26.2. Glazed openings need not be protected against wind-borne debris.

**Site Soil Class:** D - Stiff Soil

**Results:**

$S_s$ :	0.19	$S_{DS}$ :	0.202
$S_1$ :	0.064	$S_{D1}$ :	0.102
$F_a$ :	1.6	$T_L$ :	6
$F_v$ :	2.4	PGA :	0.099
$S_{MS}$ :	0.304	PGA <sub>M</sub> :	0.158
$S_{M1}$ :	0.153	F <sub>PGA</sub> :	1.6
		$I_e$ :	1

**Seismic Design Category** B



**Data Accessed:**

Mon Aug 09 2021

**Date Source:**

USGS Seismic Design Maps based on ASCE/SEI 7-10, incorporating Supplement 1 and errata of March 31, 2013, and ASCE/SEI 7-10 Table 1.5-2. Additional data for site-specific ground motion procedures in accordance with ASCE/SEI 7-10 Ch. 21 are available from USGS.

## Ice

---

**Results:**

Ice Thickness: 0.75 in.  
Concurrent Temperature: 15 F  
Gust Speed: 50 mph

**Data Source:** Standard ASCE/SEI 7-10, Figs. 10-2 through 10-8

**Date Accessed:** Mon Aug 09 2021

Ice thicknesses on structures in exposed locations at elevations higher than the surrounding terrain and in valleys and gorges may exceed the mapped values.

Values provided are equivalent radial ice thicknesses due to freezing rain with concurrent 3-second gust speeds, for a 50-year mean recurrence interval, and temperatures concurrent with ice thicknesses due to freezing rain. Thicknesses for ice accretions caused by other sources shall be obtained from local meteorological studies. Ice thicknesses in exposed locations at elevations higher than the surrounding terrain and in valleys and gorges may exceed the mapped values.

---

The ASCE 7 Hazard Tool is provided for your convenience, for informational purposes only, and is provided “as is” and without warranties of any kind. The location data included herein has been obtained from information developed, produced, and maintained by third party providers; or has been extrapolated from maps incorporated in the ASCE 7 standard. While ASCE has made every effort to use data obtained from reliable sources or methodologies, ASCE does not make any representations or warranties as to the accuracy, completeness, reliability, currency, or quality of any data provided herein. Any third-party links provided by this Tool should not be construed as an endorsement, affiliation, relationship, or sponsorship of such third-party content by or from ASCE.

ASCE does not intend, nor should anyone interpret, the results provided by this Tool to replace the sound judgment of a competent professional, having knowledge and experience in the appropriate field(s) of practice, nor to substitute for the standard of care required of such professionals in interpreting and applying the contents of this Tool or the ASCE 7 standard.

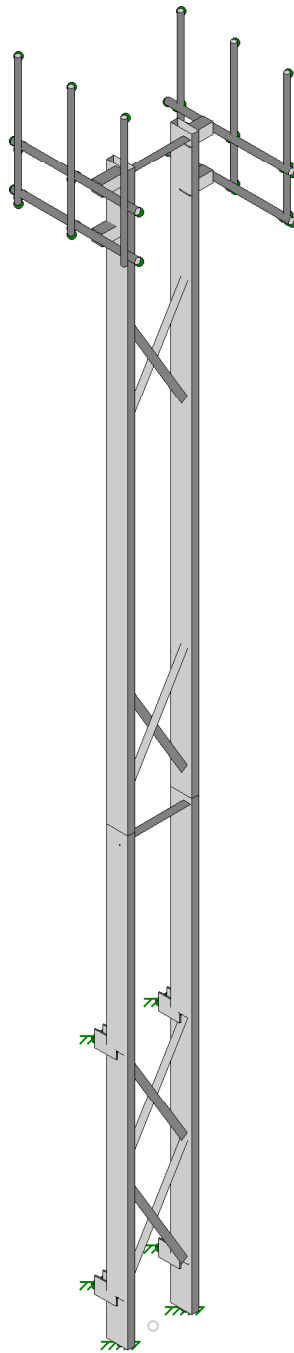
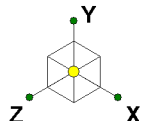
In using this Tool, you expressly assume all risks associated with your use. Under no circumstances shall ASCE or its officers, directors, employees, members, affiliates, or agents be liable to you or any other person for any direct, indirect, special, incidental, or consequential damages arising from or related to your use of, or reliance on, the Tool or any information obtained therein. To the fullest extent permitted by law, you agree to release and hold harmless ASCE from any and all liability of any nature arising out of or resulting from any use of data provided by the ASCE 7 Hazard Tool.





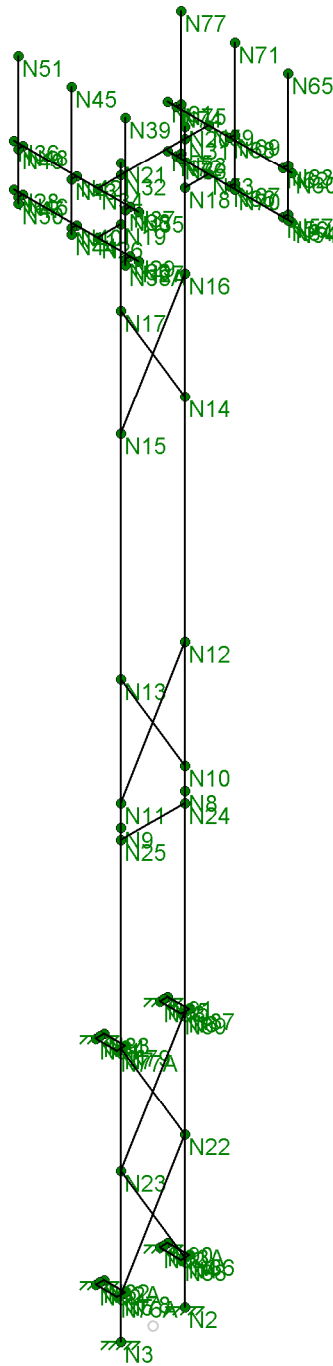
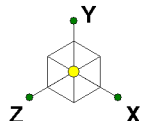
Pipe Mount	Antenna	Elevation (ft)	Quantity	Orientation (deg)	Front Exposed (%)	Side Exposed (%)	Front CaAa (ft²)	Side CaAa (ft²)	Front F <sub>A</sub> (kips)	Side F <sub>A</sub> (kips)	Top %	Bottom %
M27	SAMSUNG MT6407-77A ANTENNA w/ RRH	50.5	1	0	100.0%	100.0%	4.700	1.844	0.083	0.033	25.6%	74.4%
M27												
M27												
M27												
M24	COMMISSCOPE SBNHH-1D65B	50.5	2	0	100.0%	100.0%	8.200	5.424	0.290	0.192	6.0%	75.0%
M24												
M24												
M24												
M24												
M21	SAMSUNG RF4439d-25A	51.5	1	0	100.0%	100.0%	1.865	1.252	0.033	0.022	22.9%	43.7%
M21	SAMSUNG RF4440d-13A	49.5	1	0	100.0%	100.0%	1.865	1.128	0.033	0.020	56.3%	77.1%
M21												
M21												
M21												
M40	SAMSUNG RF4439d-25A	51.5	1	180	100.0%	100.0%	1.865	1.252	0.033	0.022	22.9%	43.7%
M40	SAMSUNG RF4440d-13A	49.5	1	180	100.0%	100.0%	1.865	1.128	0.033	0.020	56.3%	77.1%
M40												
M40												
M40												
M37	COMMISSCOPE SBNHH-1D65B	50.5	2	180	100.0%	100.0%	8.200	5.424	0.290	0.192	6.0%	75.0%
M37												
M37												
M37												
M37												
M34	SAMSUNG MT6407-77A ANTENNA w/ RRH	50.5	1	180	100.0%	100.0%	4.700	1.844	0.083	0.033	25.6%	74.4%
M34												
M34												
M34												
M34												
M3	6C OVP	50.5	1	0	100.0%	100.0%	3.792	2.514	0.067	0.044	30.0%	40.0%
M3												
M3												
M3												
M3												
M4	6C OVP	50.5	1	0	100.0%	100.0%	3.792	2.514	0.067	0.044	30.0%	40.0%
M4												
M4												
M4												
M4												

**Appendix #2: RISA 3D Output**



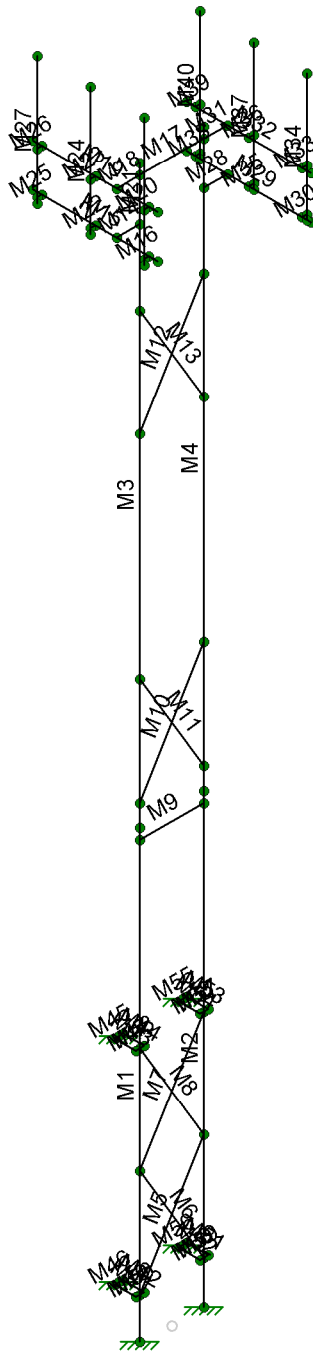
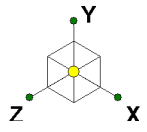
Envelope Only Solution

Nexus	NAUGATUCK 4 CT	Rendered
Akshay Doddamani		Aug 9, 2021 at 3:05 PM
VZW467170A01		467170_Naugatuck_4_CT_1609262...



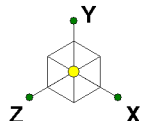
Envelope Only Solution

Nexus	NAUGATUCK 4 CT	Nodes
Akshay Doddamani		Aug 9, 2021 at 3:06 PM
VZW467170A01		467170_Naugatuck_4_CT_1609262...

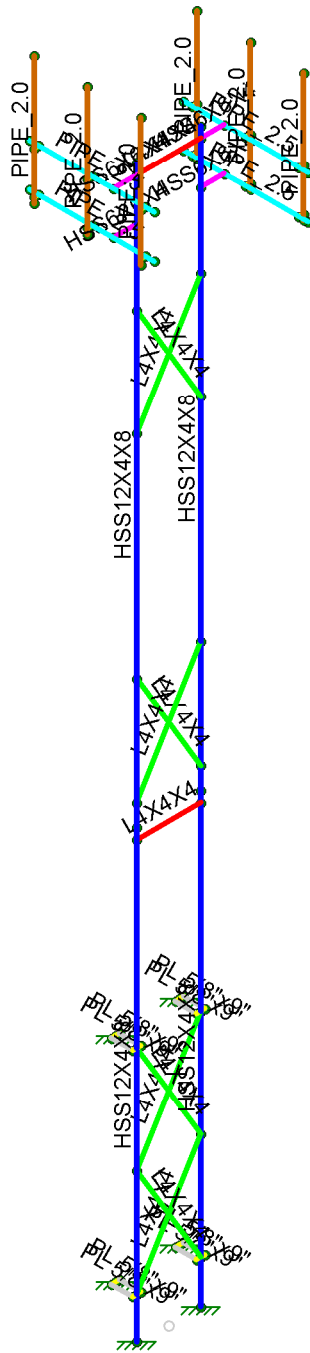


Envelope Only Solution

Nexus	NAUGATUCK 4 CT	Member Label
Akshay Doddamani		Aug 9, 2021 at 3:06 PM
VZW467170A01		467170_Naugatuck_4_CT_1609262...



Section Sets	
<span style="color: blue;">█</span>	Column, HSS12x4x1/2
<span style="color: green;">█</span>	Diagonals, L4x4x1/4
<span style="color: red;">█</span>	Horizontal, L4x4x1/4
<span style="color: gray;">█</span>	Plate, PL5/8"x9"
<span style="color: magenta;">█</span>	Mount Standoff, HSS6x6x1/4
<span style="color: cyan;">█</span>	Mount Horizontals, Pipe 2.5
<span style="color: brown;">█</span>	Antenna Pipe, Pipe 2.0
<span style="color: yellow;">█</span>	RIGID

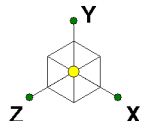


Envelope Only Solution

Nexus
Akshay Doddamani
VZW467170A01

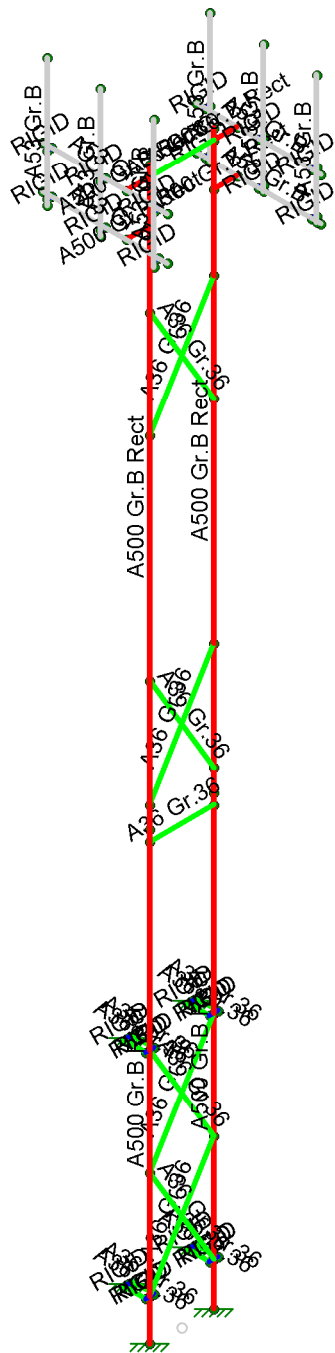
NAUGATUCK 4 CT

Shape
Aug 9, 2021 at 3:06 PM
467170_Naugatuck_4_CT_1609262...



Material Sets

- RIGID
- A36 Gr.36
- A500 Gr.B Rect
- A53 Gr.B



Envelope Only Solution

Nexus
Akshay Doddamani
VZW467170A01

NAUGATUCK 4 CT

Material Property
Aug 9, 2021 at 3:06 PM
467170_Naugatuck_4_CT_1609262...









Company : Nexius  
 Designer : Akshay Doddamani  
 Job Number : VZW467170A01  
 Model Name : NAUGATUCK 4 CT

Aug 9, 2021  
 3:07 PM  
 Checked By: Jiazhu Hu

### Hot Rolled Steel Properties

	Label	E [k...G [k... Nu	Therm (\1E5 F)	Density[k/ft^3]	Yield[ksi]	Ry	Fu[ksi]	Rt
1	A992	290...111... .3	.65	.49	50	1.1	65	1.1
2	A36 Gr...	290...111... .3	.65	.49	36	1.5	58	1.2
3	A572 Gr...	290...111... .3	.65	.49	50	1.1	65	1.1
4	A500 Gr...	290...111... .3	.65	.527	42	1.4	58	1.3
5	A500 Gr...	290...111... .3	.65	.527	46	1.4	58	1.3
6	A53 Gr.B	290...111... .3	.65	.49	35	1.6	60	1.2
7	A1085	290...111... .3	.65	.49	50	1.4	65	1.3
8	A913 Gr...	290...111... .3	.65	.49	65	1.1	80	1.1

### Hot Rolled Steel Design Parameters

	Label	Shape	Length[ft]	Lbyy[ft]	Lbzz[ft]	Lcomp top[ft]	Lcomp bot[ft]	L-torq...	Kyy	Kzz	Cb	Function
1	M1	Column, HS...	21									Lateral
2	M2	Column, HS...	21									Lateral
3	M3	Column, HS...	27									Lateral
4	M4	Column, HS...	27									Lateral
5	M5	Diagonals, ...	5.831									Lateral
6	M6	Diagonals, ...	5.831									Lateral
7	M7	Diagonals, ...	5.831									Lateral
8	M8	Diagonals, ...	5.831									Lateral
9	M9	Horizontal, ...	3						.65	.65		Lateral
10	M10	Diagonals, ...	5.831									Lateral
11	M11	Diagonals, ...	5.831									Lateral
12	M12	Diagonals, ...	5.831									Lateral
13	M13	Diagonals, ...	5.831									Lateral
14	M14	Mount Stan...	1.099									Lateral
15	M15	Mount Horiz...	5.833									Lateral
16	M17	Horizontal, ...	3						.65	.65		Lateral
17	M18	Mount Stan...	1.099									Lateral
18	M19	Mount Horiz...	5.833									Lateral
19	M21	Antenna Pip...	6									Lateral
20	M24	Antenna Pip...	6									Lateral
21	M27	Antenna Pip...	6									Lateral
22	M28	Mount Stan...	1.099									Lateral
23	M29	Mount Horiz...	5.833									Lateral
24	M31	Mount Stan...	1.099									Lateral
25	M32	Mount Horiz...	5.833									Lateral
26	M34	Antenna Pip...	6									Lateral
27	M37	Antenna Pip...	6									Lateral
28	M40	Antenna Pip...	6									Lateral
29	M41	Plate, PL5/8...	1									Lateral
30	M42	Plate, PL5/8...	1									Lateral
31	M43	Plate, PL5/8...	1									Lateral
32	M44	Plate, PL5/8...	1									Lateral
33	M51	Plate, PL5/8...	1									Lateral
34	M52	Plate, PL5/8...	1									Lateral
35	M53	Plate, PL5/8...	1									Lateral
36	M54	Plate, PL5/8...	1									Lateral



Company : Nexius  
 Designer : Akshay Doddamani  
 Job Number : VZW467170A01  
 Model Name : NAUGATUCK 4 CT

Aug 9, 2021  
 3:07 PM  
 Checked By: Jiazhu Hu

### Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Design ...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
1	Column, HSS12x4x1/2	HSS12X4X8	Column	Tube	A500 Gr.B ...	Typical	13.5	35.3	210	105
2	Diagonals, L4x4x1/4	L4X4X4	Column	Single Angle	A36 Gr.36	Typical	1.93	3	3	.044
3	Horizontal, L4x4x1/4	L4X4X4	Beam	Single Angle	A36 Gr.36	Typical	1.93	3	3	.044
4	Plate, PL5/8"x9"	PL 5/8"x9"	Beam	RECT	A36 Gr.36	Typical	5.625	.183	37.969	.7
5	Mount Standoff, HSS6...	HSS6X6X4	Beam	Tube	A500 Gr.B ...	Typical	5.24	28.6	28.6	45.6
6	Mount Horizontals, Pi...	PIPE_2.5	Beam	Pipe	A53 Gr.B	Typical	1.61	1.45	1.45	2.89
7	Antenna Pipe, Pipe 2.0	PIPE_2.0	Column	Pipe	A53 Gr.B	Typical	1.02	.627	.627	1.25

### Joint Coordinates and Temperatures

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From D...
1	N1	0	0	0	0	
2	N2	-0.	0	-1.5	0	
3	N3	0.	0	1.5	0	
4	N4	-0.	2	-1.5	0	
5	N5	0.	2	1.5	0	
6	N6	-0.	12	-1.5	0	
7	N7	0.	12	1.5	0	
8	N8	-0.	21	-1.5	0	
9	N9	0.	21	1.5	0	
10	N10	-0.	22	-1.5	0	
11	N11	0.	22	1.5	0	
12	N12	-0.	27	-1.5	0	
13	N13	0.	27	1.5	0	
14	N14	-0.	37	-1.5	0	
15	N15	0.	37	1.5	0	
16	N16	-0.	42	-1.5	0	
17	N17	0.	42	1.5	0	
18	N18	-0.	45.5	-1.5	0	
19	N19	0.	45.5	1.5	0	
20	N20	-0.	48	-1.5	0	
21	N21	0.	48	1.5	0	
22	N22	-0.	7	-1.5	0	
23	N23	0.	7	1.5	0	
24	N24	-0.	20.5	-1.5	0	
25	N25	0.	20.5	1.5	0	
26	N26	0.	45.5	2.598958	0	
27	N27	1.916667	45.5	2.598958	0	
28	N28	-3.916667	45.5	2.598958	0	
29	N29	1.5	45.5	2.598958	0	
30	N30	1.5	45.5	2.817708	0	
31	N31	-0.	47.5	-1.5	0	
32	N32	0.	47.5	1.5	0	
33	N34	0.	47.5	2.598958	0	
34	N35	1.916667	47.5	2.598958	0	
35	N36	-3.916667	47.5	2.598958	0	
36	N37	1.5	47.5	2.598958	0	
37	N38	1.5	47.5	2.817708	0	
38	N38A	1.5	45.25	2.817708	0	
39	N39	1.5	51.25	2.817708	0	
40	N40	-1	45.5	2.598958	0	
41	N41	-1	45.5	2.817708	0	
42	N42	-1	47.5	2.598958	0	
43	N43	-1	47.5	2.817708	0	
44	N44	-1	45.25	2.817708	0	



Company : Nexius  
 Designer : Akshay Doddamani  
 Job Number : VZW467170A01  
 Model Name : NAUGATUCK 4 CT

Aug 9, 2021  
 3:07 PM  
 Checked By: Jiazhu Hu

**Joint Coordinates and Temperatures (Continued)**

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From D...
45	N45	-1	51.25	2.817708	0	
46	N46	-3.5	45.5	2.598958	0	
47	N47	-3.5	45.5	2.817708	0	
48	N48	-3.5	47.5	2.598958	0	
49	N49	-3.5	47.5	2.817708	0	
50	N50	-3.5	45.25	2.817708	0	
51	N51	-3.5	51.25	2.817708	0	
52	N53	0.	45.5	-2.598958	0	
53	N54	3.916667	45.5	-2.598958	0	
54	N55	-1.916667	45.5	-2.598958	0	
55	N56	3.5	45.5	-2.598958	0	
56	N57	3.5	45.5	-2.817708	0	
57	N59	0.	47.5	-2.598958	0	
58	N60	3.916667	47.5	-2.598958	0	
59	N61	-1.916667	47.5	-2.598958	0	
60	N62	3.5	47.5	-2.598958	0	
61	N63	3.5	47.5	-2.817708	0	
62	N64	3.5	45.25	-2.817708	0	
63	N65	3.5	51.25	-2.817708	0	
64	N66	1	45.5	-2.598958	0	
65	N67	1	45.5	-2.817708	0	
66	N68	1	47.5	-2.598958	0	
67	N69	1	47.5	-2.817708	0	
68	N70	1	45.25	-2.817708	0	
69	N71	1	51.25	-2.817708	0	
70	N72	-1.5	45.5	-2.598958	0	
71	N73	-1.5	45.5	-2.817708	0	
72	N74	-1.5	47.5	-2.598958	0	
73	N75	-1.5	47.5	-2.817708	0	
74	N76	-1.5	45.25	-2.817708	0	
75	N77	-1.5	51.25	-2.817708	0	
76	N76A	0.	2	1.692708	0	
77	N77A	0.	12	1.692708	0	
78	N78	0.	2	1.307292	0	
79	N79	0.	12	1.307292	0	
80	N80	-1	2	1.692708	0	
81	N81	-1	12	1.692708	0	
82	N82	-1	2	1.307292	0	
83	N83	-1	12	1.307292	0	
84	N86	0.	2	-1.692708	0	
85	N87	0.	12	-1.692708	0	
86	N88	0.	2	-1.307292	0	
87	N89	0.	12	-1.307292	0	
88	N90	-1	2	-1.692708	0	
89	N91	-1	12	-1.692708	0	
90	N92	-1	2	-1.307292	0	
91	N93	-1	12	-1.307292	0	
92	N92A	-1	2	1.5	0	
93	N93A	-1	2	-1.5	0	
94	N94	-1	12	1.5	0	
95	N95	-1	12	-1.5	0	

**Member Point Loads (BLC 1 : Dead)**

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	M27	Y	-.044	%25.6



**Member Point Loads (BLC 1 : Dead) (Continued)**

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
2	M24	Y	-.041	%6
3	M21	Y	-.075	%33.3
4	M21	Y	-.07	%66.7
5	M40	Y	-.075	%33.3
6	M40	Y	-.07	%66.7
7	M37	Y	-.041	%6
8	M34	Y	-.044	%25.6
9	M3	Y	-.032	%35
10	M4	Y	-.032	%35
11	M27	Y	-.044	%74.4
12	M24	Y	-.041	%75
13	M37	Y	-.041	%75
14	M34	Y	-.044	%74.4

**Member Point Loads (BLC 2 : Ice Dead)**

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
1	M27	Y	-.052	%25.6
2	M24	Y	-.179	%6
3	M21	Y	-.047	%33.3
4	M21	Y	-.045	%66.7
5	M40	Y	-.047	%33.3
6	M40	Y	-.045	%66.7
7	M37	Y	-.179	%6
8	M34	Y	-.052	%25.6
9	M3	Y	-.094	%35
10	M4	Y	-.094	%35
11	M27	Y	-.052	%74.4
12	M24	Y	-.179	%75
13	M37	Y	-.179	%75
14	M34	Y	-.052	%74.4

**Member Point Loads (BLC 3 : Full Wind Antenna (0 Deg))**

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
1	M27	Z	-.041	%25.6
2	M24	Z	-.145	%6
3	M21	Z	-.033	%33.3
4	M21	Z	-.033	%66.7
5	M40	Z	-.033	%33.3
6	M40	Z	-.033	%66.7
7	M37	Z	-.145	%6
8	M34	Z	-.041	%25.6
9	M3	Z	-.067	%35
10	M4	Z	-.067	%35
11	M27	Z	-.041	%74.4
12	M24	Z	-.145	%75
13	M37	Z	-.145	%75
14	M34	Z	-.041	%74.4

**Member Point Loads (BLC 4 : Full Wind Antenna (30 Deg))**

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
1	M27	Z	-.03	%25.6
2	M24	Z	-.115	%6
3	M21	Z	-.026	%33.3
4	M21	Z	-.026	%66.7
5	M40	Z	-.026	%33.3



Company : Nexius  
 Designer : Akshay Doddamani  
 Job Number : VZW467170A01  
 Model Name : NAUGATUCK 4 CT

Aug 9, 2021  
 3:07 PM  
 Checked By: Jiazhu Hu

**Member Point Loads (BLC 4 : Full Wind Antenna (30 Deg)) (Continued)**

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
6	M40	Z	-.026	%66.7
7	M37	Z	-.115	%6
8	M34	Z	-.03	%25.6
9	M3	Z	-.053	%35
10	M4	Z	-.053	%35
11	M27	Z	-.03	%74.4
12	M24	Z	-.115	%75
13	M37	Z	-.115	%75
14	M34	Z	-.03	%74.4
15	M27	X	.018	%25.6
16	M24	X	.066	%6
17	M21	X	.015	%33.3
18	M21	X	.015	%66.7
19	M40	X	.015	%33.3
20	M40	X	.015	%66.7
21	M37	X	.066	%6
22	M34	X	.018	%25.6
23	M3	X	.031	%35
24	M4	X	.031	%35
25	M27	X	.018	%74.4
26	M24	X	.066	%75
27	M37	X	.066	%75
28	M34	X	.018	%74.4

**Member Point Loads (BLC 5 : Full Wind Antenna (60 Deg))**

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	M27	Z	-.011	%25.6
2	M24	Z	-.054	%6
3	M21	Z	-.012	%33.3
4	M21	Z	-.012	%66.7
5	M40	Z	-.012	%33.3
6	M40	Z	-.012	%66.7
7	M37	Z	-.054	%6
8	M34	Z	-.011	%25.6
9	M3	Z	-.025	%35
10	M4	Z	-.025	%35
11	M27	Z	-.011	%74.4
12	M24	Z	-.054	%75
13	M37	Z	-.054	%75
14	M34	Z	-.011	%74.4
15	M27	X	.02	%25.6
16	M24	X	.094	%6
17	M21	X	.021	%33.3
18	M21	X	.02	%66.7
19	M40	X	.021	%33.3
20	M40	X	.02	%66.7
21	M37	X	.094	%6
22	M34	X	.02	%25.6
23	M3	X	.043	%35
24	M4	X	.043	%35
25	M27	X	.02	%74.4
26	M24	X	.094	%75
27	M37	X	.094	%75
28	M34	X	.02	%74.4



Company : Nexius  
 Designer : Akshay Doddamani  
 Job Number : VZW467170A01  
 Model Name : NAUGATUCK 4 CT

Aug 9, 2021  
 3:07 PM  
 Checked By: Jiazhu Hu

**Member Point Loads (BLC 6 : Full Wind Antenna (90 Deg))**

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
1	M27	Z	0	%25.6
2	M24	Z	0	%6
3	M21	Z	0	%33.3
4	M21	Z	0	%66.7
5	M40	Z	0	%33.3
6	M40	Z	0	%66.7
7	M37	Z	0	%6
8	M34	Z	0	%25.6
9	M3	Z	0	%35
10	M4	Z	0	%35
11	M27	Z	0	%74.4
12	M24	Z	0	%75
13	M37	Z	0	%75
14	M34	Z	0	%74.4
15	M27	X	.016	%25.6
16	M24	X	.096	%6
17	M21	X	.022	%33.3
18	M21	X	.02	%66.7
19	M40	X	.022	%33.3
20	M40	X	.02	%66.7
21	M37	X	.096	%6
22	M34	X	.016	%25.6
23	M3	X	.044	%35
24	M4	X	.044	%35
25	M27	X	.016	%74.4
26	M24	X	.096	%75
27	M37	X	.096	%75
28	M34	X	.016	%74.4

**Member Point Loads (BLC 7 : Full Wind Antenna (120 Deg))**

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
1	M27	Z	.011	%25.6
2	M24	Z	.054	%6
3	M21	Z	.012	%33.3
4	M21	Z	.012	%66.7
5	M40	Z	.012	%33.3
6	M40	Z	.012	%66.7
7	M37	Z	.054	%6
8	M34	Z	.011	%25.6
9	M3	Z	.025	%35
10	M4	Z	.025	%35
11	M27	Z	.011	%74.4
12	M24	Z	.054	%75
13	M37	Z	.054	%75
14	M34	Z	.011	%74.4
15	M27	X	.02	%25.6
16	M24	X	.094	%6
17	M21	X	.021	%33.3
18	M21	X	.02	%66.7
19	M40	X	.021	%33.3
20	M40	X	.02	%66.7
21	M37	X	.094	%6
22	M34	X	.02	%25.6
23	M3	X	.043	%35
24	M4	X	.043	%35
25	M27	X	.02	%74.4



Company : Nexius  
 Designer : Akshay Doddamani  
 Job Number : VZW467170A01  
 Model Name : NAUGATUCK 4 CT

Aug 9, 2021  
 3:07 PM  
 Checked By: Jiazhu Hu

**Member Point Loads (BLC 7 : Full Wind Antenna (120 Deg)) (Continued)**

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
26	M24	X	.094	%75
27	M37	X	.094	%75
28	M34	X	.02	%74.4

**Member Point Loads (BLC 8 : Full Wind Antenna (150 Deg))**

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
1	M27	Z	.03	%25.6
2	M24	Z	.115	%6
3	M21	Z	.026	%33.3
4	M21	Z	.026	%66.7
5	M40	Z	.026	%33.3
6	M40	Z	.026	%66.7
7	M37	Z	.115	%6
8	M34	Z	.03	%25.6
9	M3	Z	.053	%35
10	M4	Z	.053	%35
11	M27	Z	.03	%74.4
12	M24	Z	.115	%75
13	M37	Z	.115	%75
14	M34	Z	.03	%74.4
15	M27	X	.018	%25.6
16	M24	X	.066	%6
17	M21	X	.015	%33.3
18	M21	X	.015	%66.7
19	M40	X	.015	%33.3
20	M40	X	.015	%66.7
21	M37	X	.066	%6
22	M34	X	.018	%25.6
23	M3	X	.031	%35
24	M4	X	.031	%35
25	M27	X	.018	%74.4
26	M24	X	.066	%75
27	M37	X	.066	%75
28	M34	X	.018	%74.4

**Member Point Loads (BLC 15 : Ice Wind Antenna (0 Deg))**

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
1	M27	Z	-.015	%25.6
2	M24	Z	-.052	%6
3	M21	Z	-.013	%33.3
4	M21	Z	-.013	%66.7
5	M40	Z	-.013	%33.3
6	M40	Z	-.013	%66.7
7	M37	Z	-.052	%6
8	M34	Z	-.015	%25.6
9	M3	Z	-.025	%35
10	M4	Z	-.025	%35
11	M27	Z	-.015	%74.4
12	M24	Z	-.052	%75
13	M37	Z	-.052	%75
14	M34	Z	-.015	%74.4

**Member Point Loads (BLC 16 : Ice Wind Antenna (30 Deg))**

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
1	M27	Z	-.011	%25.6





Company : Nexius  
 Designer : Akshay Doddamani  
 Job Number : VZW467170A01  
 Model Name : NAUGATUCK 4 CT

Aug 9, 2021  
 3:07 PM  
 Checked By: Jiazhu Hu

**Member Point Loads (BLC 16 : Ice Wind Antenna (30 Deg)) (Continued)**

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
2	M24	Z	-.042	%6
3	M21	Z	-.011	%33.3
4	M21	Z	-.011	%66.7
5	M40	Z	-.011	%33.3
6	M40	Z	-.011	%66.7
7	M37	Z	-.042	%6
8	M34	Z	-.011	%25.6
9	M3	Z	-.02	%35
10	M4	Z	-.02	%35
11	M27	Z	-.011	%74.4
12	M24	Z	-.042	%75
13	M37	Z	-.042	%75
14	M34	Z	-.011	%74.4
15	M27	X	.007	%25.6
16	M24	X	.024	%6
17	M21	X	.006	%33.3
18	M21	X	.006	%66.7
19	M40	X	.006	%33.3
20	M40	X	.006	%66.7
21	M37	X	.024	%6
22	M34	X	.007	%25.6
23	M3	X	.012	%35
24	M4	X	.012	%35
25	M27	X	.007	%74.4
26	M24	X	.024	%75
27	M37	X	.024	%75
28	M34	X	.007	%74.4

**Member Point Loads (BLC 17 : Ice Wind Antenna (60 Deg))**

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	M27	Z	-.005	%25.6
2	M24	Z	-.021	%6
3	M21	Z	-.005	%33.3
4	M21	Z	-.005	%66.7
5	M40	Z	-.005	%33.3
6	M40	Z	-.005	%66.7
7	M37	Z	-.021	%6
8	M34	Z	-.005	%25.6
9	M3	Z	-.01	%35
10	M4	Z	-.01	%35
11	M27	Z	-.005	%74.4
12	M24	Z	-.021	%75
13	M37	Z	-.021	%75
14	M34	Z	-.005	%74.4
15	M27	X	.008	%25.6
16	M24	X	.036	%6
17	M21	X	.009	%33.3
18	M21	X	.009	%66.7
19	M40	X	.009	%33.3
20	M40	X	.009	%66.7
21	M37	X	.036	%6
22	M34	X	.008	%25.6
23	M3	X	.017	%35
24	M4	X	.017	%35
25	M27	X	.008	%74.4
26	M24	X	.036	%75



Company : Nexius  
 Designer : Akshay Doddamani  
 Job Number : VZW467170A01  
 Model Name : NAUGATUCK 4 CT

Aug 9, 2021  
 3:07 PM  
 Checked By: Jiazhu Hu

**Member Point Loads (BLC 17 : Ice Wind Antenna (60 Deg)) (Continued)**

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
27	M37	X	.036	%75
28	M34	X	.008	%74.4

**Member Point Loads (BLC 18 : Ice Wind Antenna (90 Deg))**

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
1	M27	Z	0	%25.6
2	M24	Z	0	%6
3	M21	Z	0	%33.3
4	M21	Z	0	%66.7
5	M40	Z	0	%33.3
6	M40	Z	0	%66.7
7	M37	Z	0	%6
8	M34	Z	0	%25.6
9	M3	Z	0	%35
10	M4	Z	0	%35
11	M27	Z	0	%74.4
12	M24	Z	0	%75
13	M37	Z	0	%75
14	M34	Z	0	%74.4
15	M27	X	.007	%25.6
16	M24	X	.038	%6
17	M21	X	.01	%33.3
18	M21	X	.009	%66.7
19	M40	X	.01	%33.3
20	M40	X	.009	%66.7
21	M37	X	.038	%6
22	M34	X	.007	%25.6
23	M3	X	.018	%35
24	M4	X	.018	%35
25	M27	X	.007	%74.4
26	M24	X	.038	%75
27	M37	X	.038	%75
28	M34	X	.007	%74.4

**Member Point Loads (BLC 19 : Ice Wind Antenna (120 Deg))**

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
1	M27	Z	.005	%25.6
2	M24	Z	.021	%6
3	M21	Z	.005	%33.3
4	M21	Z	.005	%66.7
5	M40	Z	.005	%33.3
6	M40	Z	.005	%66.7
7	M37	Z	.021	%6
8	M34	Z	.005	%25.6
9	M3	Z	.01	%35
10	M4	Z	.01	%35
11	M27	Z	.005	%74.4
12	M24	Z	.021	%75
13	M37	Z	.021	%75
14	M34	Z	.005	%74.4
15	M27	X	.008	%25.6
16	M24	X	.036	%6
17	M21	X	.009	%33.3
18	M21	X	.009	%66.7
19	M40	X	.009	%33.3
20	M40	X	.009	%66.7



Company : Nexius  
 Designer : Akshay Doddamani  
 Job Number : VZW467170A01  
 Model Name : NAUGATUCK 4 CT

Aug 9, 2021  
 3:07 PM  
 Checked By: Jiazhu Hu

**Member Point Loads (BLC 19 : Ice Wind Antenna (120 Deg)) (Continued)**

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
21	M37	X	.036	%6
22	M34	X	.008	%25.6
23	M3	X	.017	%35
24	M4	X	.017	%35
25	M27	X	.008	%74.4
26	M24	X	.036	%75
27	M37	X	.036	%75
28	M34	X	.008	%74.4

**Member Point Loads (BLC 20 : Ice Wind Antenna (150 Deg))**

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	M27	Z	.011	%25.6
2	M24	Z	.021	%6
3	M21	Z	.005	%33.3
4	M21	Z	.005	%66.7
5	M40	Z	.005	%33.3
6	M40	Z	.005	%66.7
7	M37	Z	.021	%6
8	M34	Z	.005	%25.6
9	M3	Z	.01	%35
10	M4	Z	.01	%35
11	M27	Z	.011	%74.4
12	M24	Z	.021	%75
13	M37	Z	.021	%75
14	M34	Z	.005	%74.4
15	M27	X	.007	%25.6
16	M24	X	.036	%6
17	M21	X	.009	%33.3
18	M21	X	.009	%66.7
19	M40	X	.009	%33.3
20	M40	X	.009	%66.7
21	M37	X	.036	%6
22	M34	X	.008	%25.6
23	M3	X	.017	%35
24	M4	X	.017	%35
25	M27	X	.007	%74.4
26	M24	X	.036	%75
27	M37	X	.036	%75
28	M34	X	.008	%74.4

**Member Point Loads (BLC 27 : Seismic Antenna (0 Deg))**

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	M27	Z	-.009	%50
2	M24	Z	-.008	%40.5
3	M21	Z	-.008	%33.3
4	M21	Z	-.007	%66.7
5	M40	Z	-.008	%33.3
6	M40	Z	-.007	%66.7
7	M37	Z	-.008	%40.5
8	M34	Z	-.009	%50
9	M3	Z	-.003	%35
10	M4	Z	-.003	%35

**Member Point Loads (BLC 28 : Seismic Antenna (90 Deg))**

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
--	--------------	-----------	-------------------	----------------



Company : Nexius  
 Designer : Akshay Doddamani  
 Job Number : VZW467170A01  
 Model Name : NAUGATUCK 4 CT

Aug 9, 2021  
 3:07 PM  
 Checked By: Jiazhu Hu

**Member Point Loads (BLC 28 : Seismic Antenna (90 Deg)) (Continued)**

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
1	M27	X	.009	%50
2	M24	X	.008	%40.5
3	M21	X	.008	%33.3
4	M21	X	.007	%66.7
5	M40	X	.008	%33.3
6	M40	X	.007	%66.7
7	M37	X	.008	%40.5
8	M34	X	.009	%50
9	M3	X	.003	%35
10	M4	X	.003	%35

**Member Point Loads (BLC 41 : Seismic Vertical Antennas)**

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
1	M27	Y	-.017	%50
2	M24	Y	-.016	%40.5
3	M21	Y	-.015	%33.3
4	M21	Y	-.014	%66.7
5	M40	Y	-.015	%33.3
6	M40	Y	-.014	%66.7
7	M37	Y	-.016	%40.5
8	M34	Y	-.017	%50
9	M3	Y	-.006	%35
10	M4	Y	-.006	%35

**Member Distributed Loads (BLC 2 : Ice Dead)**

	Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft..	End Location[ft...
1	M1	PY	-.027	-.027	0	%100
2	M2	PY	-.027	-.027	0	%100
3	M3	PY	-.027	-.027	0	%100
4	M4	PY	-.027	-.027	0	%100
5	M5	PY	-.014	-.014	0	%100
6	M6	PY	-.014	-.014	0	%100
7	M7	PY	-.014	-.014	0	%100
8	M8	PY	-.014	-.014	0	%100
9	M9	PY	-.014	-.014	0	%100
10	M10	PY	-.014	-.014	0	%100
11	M11	PY	-.014	-.014	0	%100
12	M12	PY	-.014	-.014	0	%100
13	M13	PY	-.014	-.014	0	%100
14	M14	PY	-.019	-.019	0	%100
15	M15	PY	-.009	-.009	0	%100
16	M16	PY	-.003	-.003	0	%100
17	M17	PY	-.014	-.014	0	%100
18	M18	PY	-.019	-.019	0	%100
19	M19	PY	-.009	-.009	0	%100
20	M20	PY	-.003	-.003	0	%100
21	M21	PY	-.008	-.008	0	%100
22	M22	PY	-.003	-.003	0	%100
23	M23	PY	-.003	-.003	0	%100
24	M24	PY	-.008	-.008	0	%100
25	M25	PY	-.003	-.003	0	%100
26	M26	PY	-.003	-.003	0	%100
27	M27	PY	-.008	-.008	0	%100
28	M28	PY	-.019	-.019	0	%100
29	M29	PY	-.009	-.009	0	%100



Company : Nexius  
 Designer : Akshay Doddamani  
 Job Number : VZW467170A01  
 Model Name : NAUGATUCK 4 CT

Aug 9, 2021  
 3:07 PM  
 Checked By: Jiazhu Hu

**Member Distributed Loads (BLC 2 : Ice Dead) (Continued)**

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft..	End Location[ft...
30	M30	PY	-.003	0	%100
31	M31	PY	-.019	0	%100
32	M32	PY	-.009	0	%100
33	M33	PY	-.003	0	%100
34	M34	PY	-.008	0	%100
35	M35	PY	-.003	0	%100
36	M36	PY	-.003	0	%100
37	M37	PY	-.008	0	%100
38	M38	PY	-.003	0	%100
39	M39	PY	-.003	0	%100
40	M40	PY	-.008	0	%100
41	M41	PY	-.02	0	%100
42	M42	PY	-.02	0	%100
43	M43	PY	-.02	0	%100
44	M44	PY	-.02	0	%100
45	M45	PY	-.003	0	%100
46	M46	PY	-.003	0	%100
47	M47	PY	-.003	0	%100
48	M48	PY	-.003	0	%100
49	M49	PY	-.003	0	%100
50	M50	PY	-.003	0	%100
51	M51	PY	-.02	0	%100
52	M52	PY	-.02	0	%100
53	M53	PY	-.02	0	%100
54	M54	PY	-.02	0	%100
55	M55	PY	-.003	0	%100
56	M56	PY	-.003	0	%100
57	M57	PY	-.003	0	%100
58	M58	PY	-.003	0	%100
59	M59	PY	-.003	0	%100
60	M60	PY	-.003	0	%100

**Member Distributed Loads (BLC 9 : Full Wind Members (0 Deg))**

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft..	End Location[ft...
1	M1	PZ	-.035	0	%100
2	M2	PZ	-.035	0	%100
3	M3	PZ	-.035	0	%30
4	M4	PZ	-.035	0	%30
5	M5	PZ	-.01	0	%100
6	M6	PZ	-.01	0	%100
7	M7	PZ	-.01	0	%100
8	M8	PZ	-.01	0	%100
9	M9	PZ	0	0	%100
10	M10	PZ	-.01	0	%100
11	M11	PZ	-.01	0	%100
12	M12	PZ	-.01	0	%100
13	M13	PZ	-.01	0	%100
14	M14	PZ	0	0	%100
15	M15	PZ	-.005	0	%100
16	M17	PZ	0	0	%100
17	M18	PZ	0	0	%100
18	M19	PZ	-.005	0	%100
19	M21	PZ	-.004	0	%22.9
20	M24	PZ	-.004	0	%6
21	M27	PZ	-.004	0	%25.6
22	M28	PZ	0	0	%100



Company : Nexius  
 Designer : Akshay Doddamani  
 Job Number : VZW467170A01  
 Model Name : NAUGATUCK 4 CT

Aug 9, 2021  
 3:07 PM  
 Checked By: Jiazhu Hu

**Member Distributed Loads (BLC 9 : Full Wind Members (0 Deg)) (Continued)**

Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft.F,ksf]	Start Location[ft..	End Location[ft...
23	M29	PZ	-.005	0	%100
24	M31	PZ	0	0	%100
25	M32	PZ	-.005	0	%100
26	M34	PZ	-.004	0	%25.6
27	M37	PZ	-.004	0	%6
28	M40	PZ	-.004	0	%22.9
29	M41	PZ	-.026	0	%100
30	M42	PZ	-.026	0	%100
31	M43	PZ	-.026	0	%100
32	M44	PZ	-.026	0	%100
33	M51	PZ	-.026	0	%100
34	M52	PZ	-.026	0	%100
35	M53	PZ	-.026	0	%100
36	M54	PZ	-.026	0	%100
37	M3	PZ	-.035	%40	%100
38	M4	PZ	-.035	%40	%100
39	M21	PZ	-.004	%77.1	%100
40	M24	PZ	-.004	%75	%100
41	M27	PZ	-.004	%74.4	%100
42	M34	PZ	-.004	%74.4	%100
43	M37	PZ	-.004	%75	%100
44	M40	PZ	-.004	%77.1	%100
45	M1	PX	0	0	%100
46	M2	PX	0	0	%100
47	M3	PX	0	0	%100
48	M4	PX	0	0	%100
49	M5	PX	0	0	%100
50	M6	PX	0	0	%100
51	M7	PX	0	0	%100
52	M8	PX	0	0	%100
53	M9	PX	0	0	%100
54	M10	PX	0	0	%100
55	M11	PX	0	0	%100
56	M12	PX	0	0	%100
57	M13	PX	0	0	%100
58	M14	PX	0	0	%100
59	M15	PX	0	0	%100
60	M17	PX	0	0	%100
61	M18	PX	0	0	%100
62	M19	PX	0	0	%100
63	M21	PX	0	0	%100
64	M24	PX	0	0	%100
65	M27	PX	0	0	%100
66	M28	PX	0	0	%100
67	M29	PX	0	0	%100
68	M31	PX	0	0	%100
69	M32	PX	0	0	%100
70	M34	PX	0	0	%100
71	M37	PX	0	0	%100
72	M40	PX	0	0	%100
73	M41	PX	0	0	%100
74	M42	PX	0	0	%100
75	M43	PX	0	0	%100
76	M44	PX	0	0	%100
77	M51	PX	0	0	%100
78	M52	PX	0	0	%100
79	M53	PX	0	0	%100



Company : Nexius  
 Designer : Akshay Doddamani  
 Job Number : VZW467170A01  
 Model Name : NAUGATUCK 4 CT

Aug 9, 2021  
 3:07 PM  
 Checked By: Jiazhu Hu

**Member Distributed Loads (BLC 9 : Full Wind Members (0 Deg)) (Continued)**

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft..	End Location[ft....
80	M54	PX	0	0	%100

**Member Distributed Loads (BLC 10 : Full Wind Members (30 Deg))**

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft..	End Location[ft....
1	M1	PZ	-.031	0	%100
2	M2	PZ	-.031	0	%100
3	M3	PZ	-.031	0	%30
4	M4	PZ	-.031	0	%30
5	M5	PZ	-.009	0	%100
6	M6	PZ	-.009	0	%100
7	M7	PZ	-.009	0	%100
8	M8	PZ	-.009	0	%100
9	M9	PZ	-.003	0	%100
10	M10	PZ	-.009	0	%100
11	M11	PZ	-.009	0	%100
12	M12	PZ	-.009	0	%100
13	M13	PZ	-.009	0	%100
14	M14	PZ	-.004	0	%100
15	M15	PZ	-.003	0	%100
16	M17	PZ	-.003	0	%100
17	M18	PZ	-.004	0	%100
18	M19	PZ	-.003	0	%100
19	M21	PZ	-.004	0	%22.9
20	M24	PZ	-.004	0	%6
21	M27	PZ	-.004	0	%25.6
22	M28	PZ	-.004	0	%100
23	M29	PZ	-.003	0	%100
24	M31	PZ	-.004	0	%100
25	M32	PZ	-.003	0	%100
26	M34	PZ	-.004	0	%25.6
27	M37	PZ	-.004	0	%6
28	M40	PZ	-.004	0	%22.9
29	M41	PZ	-.017	0	%100
30	M42	PZ	-.017	0	%100
31	M43	PZ	-.017	0	%100
32	M44	PZ	-.017	0	%100
33	M51	PZ	-.017	0	%100
34	M52	PZ	-.017	0	%100
35	M53	PZ	-.017	0	%100
36	M54	PZ	-.017	0	%100
37	M3	PZ	-.031	%40	%100
38	M4	PZ	-.031	%40	%100
39	M21	PZ	-.004	%77.1	%100
40	M24	PZ	-.004	%75	%100
41	M27	PZ	-.004	%74.4	%100
42	M34	PZ	-.004	%74.4	%100
43	M37	PZ	-.004	%75	%100
44	M40	PZ	-.004	%77.1	%100
45	M1	PX	.018	0	%100
46	M2	PX	.018	0	%100
47	M3	PX	.018	0	%100
48	M4	PX	.018	0	%100
49	M5	PX	.005	0	%100
50	M6	PX	.005	0	%100
51	M7	PX	.005	0	%100
52	M8	PX	.005	0	%100



Company : Nexius  
 Designer : Akshay Doddamani  
 Job Number : VZW467170A01  
 Model Name : NAUGATUCK 4 CT

Aug 9, 2021  
 3:07 PM  
 Checked By: Jiazhu Hu

**Member Distributed Loads (BLC 10 : Full Wind Members (30 Deg)) (Continued)**

	Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft.F,ksf]	Start Location[ft..	End Location[ft...
53	M9	PX	.001	.001	0	%100
54	M10	PX	.005	.005	0	%100
55	M11	PX	.005	.005	0	%100
56	M12	PX	.005	.005	0	%100
57	M13	PX	.005	.005	0	%100
58	M14	PX	.002	.002	0	%100
59	M15	PX	.002	.002	0	%100
60	M17	PX	.001	.001	0	%100
61	M18	PX	.002	.002	0	%100
62	M19	PX	.002	.002	0	%100
63	M21	PX	.002	.002	0	%100
64	M24	PX	.002	.002	0	%100
65	M27	PX	.002	.002	0	%100
66	M28	PX	.002	.002	0	%100
67	M29	PX	.002	.002	0	%100
68	M31	PX	.002	.002	0	%100
69	M32	PX	.002	.002	0	%100
70	M34	PX	.002	.002	0	%100
71	M37	PX	.002	.002	0	%100
72	M40	PX	.002	.002	0	%100
73	M41	PX	.01	.01	0	%100
74	M42	PX	.01	.01	0	%100
75	M43	PX	.01	.01	0	%100
76	M44	PX	.01	.01	0	%100
77	M51	PX	.01	.01	0	%100
78	M52	PX	.01	.01	0	%100
79	M53	PX	.01	.01	0	%100
80	M54	PX	.01	.01	0	%100

**Member Distributed Loads (BLC 11 : Full Wind Members (60 Deg))**

	Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft.F,ksf]	Start Location[ft..	End Location[ft...
1	M1	PZ	-.018	-.018	0	%100
2	M2	PZ	-.018	-.018	0	%100
3	M3	PZ	-.018	-.018	0	%30
4	M4	PZ	-.018	-.018	0	%30
5	M5	PZ	-.006	-.006	0	%100
6	M6	PZ	-.006	-.006	0	%100
7	M7	PZ	-.006	-.006	0	%100
8	M8	PZ	-.006	-.006	0	%100
9	M9	PZ	-.004	-.004	0	%100
10	M10	PZ	-.006	-.006	0	%100
11	M11	PZ	-.006	-.006	0	%100
12	M12	PZ	-.006	-.006	0	%100
13	M13	PZ	-.006	-.006	0	%100
14	M14	PZ	-.007	-.007	0	%100
15	M15	PZ	-.001	-.001	0	%100
16	M17	PZ	-.004	-.004	0	%100
17	M18	PZ	-.007	-.007	0	%100
18	M19	PZ	-.001	-.001	0	%100
19	M21	PZ	-.002	-.002	0	%22.9
20	M24	PZ	-.002	-.002	0	%6
21	M27	PZ	-.002	-.002	0	%25.6
22	M28	PZ	-.007	-.007	0	%100
23	M29	PZ	-.001	-.001	0	%100
24	M31	PZ	-.007	-.007	0	%100
25	M32	PZ	-.001	-.001	0	%100





Company : Nexius  
 Designer : Akshay Doddamani  
 Job Number : VZW467170A01  
 Model Name : NAUGATUCK 4 CT

Aug 9, 2021  
 3:07 PM  
 Checked By: Jiazhu Hu

**Member Distributed Loads (BLC 11 : Full Wind Members (60 Deg)) (Continued)**

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Locationft..	End Locationft...
26	M34	PZ	-.002	0	%25.6
27	M37	PZ	-.002	0	%6
28	M40	PZ	-.002	0	%22.9
29	M41	PZ	-.003	0	%100
30	M42	PZ	-.003	0	%100
31	M43	PZ	-.003	0	%100
32	M44	PZ	-.003	0	%100
33	M51	PZ	-.003	0	%100
34	M52	PZ	-.003	0	%100
35	M53	PZ	-.003	0	%100
36	M54	PZ	-.003	0	%100
37	M3	PZ	-.018	%40	%100
38	M4	PZ	-.018	%40	%100
39	M21	PZ	-.002	%77.1	%100
40	M24	PZ	-.002	%75	%100
41	M27	PZ	-.002	%74.4	%100
42	M34	PZ	-.002	%74.4	%100
43	M37	PZ	-.002	%75	%100
44	M40	PZ	-.002	%77.1	%100
45	M1	PX	.031	0	%100
46	M2	PX	.031	0	%100
47	M3	PX	.031	0	%100
48	M4	PX	.031	0	%100
49	M5	PX	.01	0	%100
50	M6	PX	.01	0	%100
51	M7	PX	.01	0	%100
52	M8	PX	.01	0	%100
53	M9	PX	.008	0	%100
54	M10	PX	.01	0	%100
55	M11	PX	.01	0	%100
56	M12	PX	.01	0	%100
57	M13	PX	.01	0	%100
58	M14	PX	.011	0	%100
59	M15	PX	.001	0	%100
60	M17	PX	.008	0	%100
61	M18	PX	.011	0	%100
62	M19	PX	.001	0	%100
63	M21	PX	.004	0	%100
64	M24	PX	.004	0	%100
65	M27	PX	.004	0	%100
66	M28	PX	.011	0	%100
67	M29	PX	.001	0	%100
68	M31	PX	.011	0	%100
69	M32	PX	.001	0	%100
70	M34	PX	.004	0	%100
71	M37	PX	.004	0	%100
72	M40	PX	.004	0	%100
73	M41	PX	.006	0	%100
74	M42	PX	.006	0	%100
75	M43	PX	.006	0	%100
76	M44	PX	.006	0	%100
77	M51	PX	.006	0	%100
78	M52	PX	.006	0	%100
79	M53	PX	.006	0	%100
80	M54	PX	.006	0	%100



Company : Nexius  
 Designer : Akshay Doddamani  
 Job Number : VZW467170A01  
 Model Name : NAUGATUCK 4 CT

Aug 9, 2021  
 3:07 PM  
 Checked By: Jiazhu Hu

**Member Distributed Loads (BLC 12 : Full Wind Members (90 Deg))**

Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft.F,ksf]	Start Location[ft..	End Location[ft...
1	M1	PZ	0	0	%100
2	M2	PZ	0	0	%100
3	M3	PZ	0	0	%30
4	M4	PZ	0	0	%30
5	M5	PZ	0	0	%100
6	M6	PZ	0	0	%100
7	M7	PZ	0	0	%100
8	M8	PZ	0	0	%100
9	M9	PZ	0	0	%100
10	M10	PZ	0	0	%100
11	M11	PZ	0	0	%100
12	M12	PZ	0	0	%100
13	M13	PZ	0	0	%100
14	M14	PZ	0	0	%100
15	M15	PZ	0	0	%100
16	M17	PZ	0	0	%100
17	M18	PZ	0	0	%100
18	M19	PZ	0	0	%100
19	M21	PZ	0	0	%22.9
20	M24	PZ	0	0	%6
21	M27	PZ	0	0	%25.6
22	M28	PZ	0	0	%100
23	M29	PZ	0	0	%100
24	M31	PZ	0	0	%100
25	M32	PZ	0	0	%100
26	M34	PZ	0	0	%25.6
27	M37	PZ	0	0	%6
28	M40	PZ	0	0	%22.9
29	M41	PZ	0	0	%100
30	M42	PZ	0	0	%100
31	M43	PZ	0	0	%100
32	M44	PZ	0	0	%100
33	M51	PZ	0	0	%100
34	M52	PZ	0	0	%100
35	M53	PZ	0	0	%100
36	M54	PZ	0	0	%100
37	M3	PZ	0	%40	%100
38	M4	PZ	0	%40	%100
39	M21	PZ	0	%77.1	%100
40	M24	PZ	0	%75	%100
41	M27	PZ	0	%74.4	%100
42	M34	PZ	0	%74.4	%100
43	M37	PZ	0	%75	%100
44	M40	PZ	0	%77.1	%100
45	M1	PX	.035	.035	%100
46	M2	PX	.035	.035	%100
47	M3	PX	.035	.035	%100
48	M4	PX	.035	.035	%100
49	M5	PX	.012	.012	%100
50	M6	PX	.012	.012	%100
51	M7	PX	.012	.012	%100
52	M8	PX	.012	.012	%100
53	M9	PX	.012	.012	%100
54	M10	PX	.012	.012	%100
55	M11	PX	.012	.012	%100
56	M12	PX	.012	.012	%100
57	M13	PX	.012	.012	%100



Company : Nexius  
 Designer : Akshay Doddamani  
 Job Number : VZW467170A01  
 Model Name : NAUGATUCK 4 CT

Aug 9, 2021  
 3:07 PM  
 Checked By: Jiazhu Hu

**Member Distributed Loads (BLC 12 : Full Wind Members (90 Deg)) (Continued)**

	Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft.F,ksf]	Start Location[ft..	End Location[ft...
58	M14	PX	.018	.018	0	%100
59	M15	PX	0	0	0	%100
60	M17	PX	.012	.012	0	%100
61	M18	PX	.018	.018	0	%100
62	M19	PX	0	0	0	%100
63	M21	PX	.004	.004	0	%100
64	M24	PX	.004	.004	0	%100
65	M27	PX	.004	.004	0	%100
66	M28	PX	.018	.018	0	%100
67	M29	PX	0	0	0	%100
68	M31	PX	.018	.018	0	%100
69	M32	PX	0	0	0	%100
70	M34	PX	.004	.004	0	%100
71	M37	PX	.004	.004	0	%100
72	M40	PX	.004	.004	0	%100
73	M41	PX	0	0	0	%100
74	M42	PX	0	0	0	%100
75	M43	PX	0	0	0	%100
76	M44	PX	0	0	0	%100
77	M51	PX	0	0	0	%100
78	M52	PX	0	0	0	%100
79	M53	PX	0	0	0	%100
80	M54	PX	0	0	0	%100

**Member Distributed Loads (BLC 13 : Full Wind Members (120 Deg))**

	Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft.F,ksf]	Start Location[ft..	End Location[ft...
1	M1	PZ	.018	.018	0	%100
2	M2	PZ	.018	.018	0	%100
3	M3	PZ	.018	.018	0	%30
4	M4	PZ	.018	.018	0	%30
5	M5	PZ	.006	.006	0	%100
6	M6	PZ	.006	.006	0	%100
7	M7	PZ	.006	.006	0	%100
8	M8	PZ	.006	.006	0	%100
9	M9	PZ	.004	.004	0	%100
10	M10	PZ	.006	.006	0	%100
11	M11	PZ	.006	.006	0	%100
12	M12	PZ	.006	.006	0	%100
13	M13	PZ	.006	.006	0	%100
14	M14	PZ	.007	.007	0	%100
15	M15	PZ	.001	.001	0	%100
16	M17	PZ	.004	.004	0	%100
17	M18	PZ	.007	.007	0	%100
18	M19	PZ	.001	.001	0	%100
19	M21	PZ	.002	.002	0	%22.9
20	M24	PZ	.002	.002	0	%6
21	M27	PZ	.002	.002	0	%25.6
22	M28	PZ	.007	.007	0	%100
23	M29	PZ	.001	.001	0	%100
24	M31	PZ	.007	.007	0	%100
25	M32	PZ	.001	.001	0	%100
26	M34	PZ	.002	.002	0	%25.6
27	M37	PZ	.002	.002	0	%6
28	M40	PZ	.002	.002	0	%22.9
29	M41	PZ	.003	.003	0	%100
30	M42	PZ	.003	.003	0	%100



Company : Nexius  
 Designer : Akshay Doddamani  
 Job Number : VZW467170A01  
 Model Name : NAUGATUCK 4 CT

Aug 9, 2021  
 3:07 PM  
 Checked By: Jiazhu Hu

**Member Distributed Loads (BLC 13 : Full Wind Members (120 Deg)) (Continued)**

Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft.F,ksf]	Start Location[ft..	End Location[ft...
31	M43	PZ	.003	0	%100
32	M44	PZ	.003	0	%100
33	M51	PZ	.003	0	%100
34	M52	PZ	.003	0	%100
35	M53	PZ	.003	0	%100
36	M54	PZ	.003	0	%100
37	M3	PZ	.018	%40	%100
38	M4	PZ	.018	%40	%100
39	M21	PZ	.002	%77.1	%100
40	M24	PZ	.002	%75	%100
41	M27	PZ	.002	%74.4	%100
42	M34	PZ	.002	%74.4	%100
43	M37	PZ	.002	%75	%100
44	M40	PZ	.002	%77.1	%100
45	M1	PX	.031	0	%100
46	M2	PX	.031	0	%100
47	M3	PX	.031	0	%100
48	M4	PX	.031	0	%100
49	M5	PX	.01	0	%100
50	M6	PX	.01	0	%100
51	M7	PX	.01	0	%100
52	M8	PX	.01	0	%100
53	M9	PX	.008	0	%100
54	M10	PX	.01	0	%100
55	M11	PX	.01	0	%100
56	M12	PX	.01	0	%100
57	M13	PX	.01	0	%100
58	M14	PX	.011	0	%100
59	M15	PX	.001	0	%100
60	M17	PX	.008	0	%100
61	M18	PX	.011	0	%100
62	M19	PX	.001	0	%100
63	M21	PX	.004	0	%100
64	M24	PX	.004	0	%100
65	M27	PX	.004	0	%100
66	M28	PX	.011	0	%100
67	M29	PX	.001	0	%100
68	M31	PX	.011	0	%100
69	M32	PX	.001	0	%100
70	M34	PX	.004	0	%100
71	M37	PX	.004	0	%100
72	M40	PX	.004	0	%100
73	M41	PX	.006	0	%100
74	M42	PX	.006	0	%100
75	M43	PX	.006	0	%100
76	M44	PX	.006	0	%100
77	M51	PX	.006	0	%100
78	M52	PX	.006	0	%100
79	M53	PX	.006	0	%100
80	M54	PX	.006	0	%100

**Member Distributed Loads (BLC 14 : Full Wind Members (150 Deg))**

Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft.F,ksf]	Start Location[ft..	End Location[ft...
1	M1	PZ	.031	0	%100
2	M2	PZ	.031	0	%100
3	M3	PZ	.031	0	%30



Company : Nexius  
 Designer : Akshay Doddamani  
 Job Number : VZW467170A01  
 Model Name : NAUGATUCK 4 CT

Aug 9, 2021  
 3:07 PM  
 Checked By: Jiazhu Hu

**Member Distributed Loads (BLC 14 : Full Wind Members (150 Deg)) (Continued)**

	Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Locationft..	End Locationft...
4	M4	PZ	.031	.031	0	%30
5	M5	PZ	.009	.009	0	%100
6	M6	PZ	.009	.009	0	%100
7	M7	PZ	.009	.009	0	%100
8	M8	PZ	.009	.009	0	%100
9	M9	PZ	.003	.003	0	%100
10	M10	PZ	.009	.009	0	%100
11	M11	PZ	.009	.009	0	%100
12	M12	PZ	.009	.009	0	%100
13	M13	PZ	.009	.009	0	%100
14	M14	PZ	.004	.004	0	%100
15	M15	PZ	.003	.003	0	%100
16	M17	PZ	.003	.003	0	%100
17	M18	PZ	.004	.004	0	%100
18	M19	PZ	.003	.003	0	%100
19	M21	PZ	.004	.004	0	%22.9
20	M24	PZ	.004	.004	0	%6
21	M27	PZ	.004	.004	0	%25.6
22	M28	PZ	.004	.004	0	%100
23	M29	PZ	.003	.003	0	%100
24	M31	PZ	.004	.004	0	%100
25	M32	PZ	.003	.003	0	%100
26	M34	PZ	.004	.004	0	%25.6
27	M37	PZ	.004	.004	0	%6
28	M40	PZ	.004	.004	0	%22.9
29	M41	PZ	.017	.017	0	%100
30	M42	PZ	.017	.017	0	%100
31	M43	PZ	.017	.017	0	%100
32	M44	PZ	.017	.017	0	%100
33	M51	PZ	.017	.017	0	%100
34	M52	PZ	.017	.017	0	%100
35	M53	PZ	.017	.017	0	%100
36	M54	PZ	.017	.017	0	%100
37	M3	PZ	.031	.031	%40	%100
38	M4	PZ	.031	.031	%40	%100
39	M21	PZ	.004	.004	%77.1	%100
40	M24	PZ	.004	.004	%75	%100
41	M27	PZ	.004	.004	%74.4	%100
42	M34	PZ	.004	.004	%74.4	%100
43	M37	PZ	.004	.004	%75	%100
44	M40	PZ	.004	.004	%77.1	%100
45	M1	PX	.018	.018	0	%100
46	M2	PX	.018	.018	0	%100
47	M3	PX	.018	.018	0	%100
48	M4	PX	.018	.018	0	%100
49	M5	PX	.005	.005	0	%100
50	M6	PX	.005	.005	0	%100
51	M7	PX	.005	.005	0	%100
52	M8	PX	.005	.005	0	%100
53	M9	PX	.001	.001	0	%100
54	M10	PX	.005	.005	0	%100
55	M11	PX	.005	.005	0	%100
56	M12	PX	.005	.005	0	%100
57	M13	PX	.005	.005	0	%100
58	M14	PX	.002	.002	0	%100
59	M15	PX	.002	.002	0	%100
60	M17	PX	.001	.001	0	%100



Company : Nexius  
 Designer : Akshay Doddamani  
 Job Number : VZW467170A01  
 Model Name : NAUGATUCK 4 CT

Aug 9, 2021  
 3:07 PM  
 Checked By: Jiazhu Hu

**Member Distributed Loads (BLC 14 : Full Wind Members (150 Deg)) (Continued)**

Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft.F,ksf]	Start Location[ft..	End Location[ft...
61	M18	PX	.002	0	%100
62	M19	PX	.002	0	%100
63	M21	PX	.002	0	%100
64	M24	PX	.002	0	%100
65	M27	PX	.002	0	%100
66	M28	PX	.002	0	%100
67	M29	PX	.002	0	%100
68	M31	PX	.002	0	%100
69	M32	PX	.002	0	%100
70	M34	PX	.002	0	%100
71	M37	PX	.002	0	%100
72	M40	PX	.002	0	%100
73	M41	PX	.01	0	%100
74	M42	PX	.01	0	%100
75	M43	PX	.01	0	%100
76	M44	PX	.01	0	%100
77	M51	PX	.01	0	%100
78	M52	PX	.01	0	%100
79	M53	PX	.01	0	%100
80	M54	PX	.01	0	%100

**Member Distributed Loads (BLC 21 : Ice Wind Members (0 Deg))**

Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft.F,ksf]	Start Location[ft..	End Location[ft...
1	M1	PZ	-.012	0	%100
2	M2	PZ	-.012	0	%100
3	M3	PZ	-.012	0	%30
4	M4	PZ	-.012	0	%30
5	M5	PZ	-.004	0	%100
6	M6	PZ	-.004	0	%100
7	M7	PZ	-.004	0	%100
8	M8	PZ	-.004	0	%100
9	M9	PZ	0	0	%100
10	M10	PZ	-.004	0	%100
11	M11	PZ	-.004	0	%100
12	M12	PZ	-.004	0	%100
13	M13	PZ	-.004	0	%100
14	M14	PZ	0	0	%100
15	M15	PZ	-.003	0	%100
16	M16	PZ	0	0	%100
17	M17	PZ	0	0	%100
18	M18	PZ	0	0	%100
19	M19	PZ	-.003	0	%100
20	M20	PZ	0	0	%100
21	M21	PZ	-.003	0	%22.9
22	M22	PZ	0	0	%100
23	M23	PZ	0	0	%100
24	M24	PZ	-.003	0	%6
25	M25	PZ	0	0	%100
26	M26	PZ	0	0	%100
27	M27	PZ	-.003	0	%25.6
28	M28	PZ	0	0	%100
29	M29	PZ	-.003	0	%100
30	M30	PZ	0	0	%100
31	M31	PZ	0	0	%100
32	M32	PZ	-.003	0	%100
33	M33	PZ	0	0	%100



Company : Nexius  
 Designer : Akshay Doddamani  
 Job Number : VZW467170A01  
 Model Name : NAUGATUCK 4 CT

Aug 9, 2021  
 3:07 PM  
 Checked By: Jiazhu Hu

**Member Distributed Loads (BLC 21 : Ice Wind Members (0 Deg)) (Continued)**

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Locationft..	End Locationft...
34	M34	PZ	-.003	0	%25.6
35	M35	PZ	0	0	%100
36	M36	PZ	0	0	%100
37	M37	PZ	-.003	0	%6
38	M38	PZ	0	0	%100
39	M39	PZ	0	0	%100
40	M40	PZ	-.003	0	%22.9
41	M41	PZ	-.011	0	%100
42	M42	PZ	-.011	0	%100
43	M43	PZ	-.011	0	%100
44	M44	PZ	-.011	0	%100
45	M45	PZ	0	0	%100
46	M46	PZ	0	0	%100
47	M47	PZ	0	0	%100
48	M48	PZ	0	0	%100
49	M49	PZ	0	0	%100
50	M50	PZ	0	0	%100
51	M51	PZ	-.011	0	%100
52	M52	PZ	-.011	0	%100
53	M53	PZ	-.011	0	%100
54	M54	PZ	-.011	0	%100
55	M55	PZ	0	0	%100
56	M56	PZ	0	0	%100
57	M57	PZ	0	0	%100
58	M58	PZ	0	0	%100
59	M59	PZ	0	0	%100
60	M60	PZ	0	0	%100
61	M3	PZ	-.012	%40	%100
62	M4	PZ	-.012	%40	%100
63	M21	PZ	-.003	%77.1	%100
64	M24	PZ	-.003	%75	%100
65	M27	PZ	-.003	%74.4	%100
66	M34	PZ	-.003	%74.4	%100
67	M37	PZ	-.003	%75	%100
68	M40	PZ	-.003	%77.1	%100
69	M1	PX	0	0	%100
70	M2	PX	0	0	%100
71	M3	PX	0	0	%100
72	M4	PX	0	0	%100
73	M5	PX	0	0	%100
74	M6	PX	0	0	%100
75	M7	PX	0	0	%100
76	M8	PX	0	0	%100
77	M9	PX	0	0	%100
78	M10	PX	0	0	%100
79	M11	PX	0	0	%100
80	M12	PX	0	0	%100
81	M13	PX	0	0	%100
82	M14	PX	0	0	%100
83	M15	PX	0	0	%100
84	M16	PX	0	0	%100
85	M17	PX	0	0	%100
86	M18	PX	0	0	%100
87	M19	PX	0	0	%100
88	M20	PX	0	0	%100
89	M21	PX	0	0	%100
90	M22	PX	0	0	%100



Company : Nexius  
 Designer : Akshay Doddamani  
 Job Number : VZW467170A01  
 Model Name : NAUGATUCK 4 CT

Aug 9, 2021  
 3:07 PM  
 Checked By: Jiazhu Hu

**Member Distributed Loads (BLC 21 : Ice Wind Members (0 Deg)) (Continued)**

	Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft.F,ksf]	Start Location[ft..	End Location[ft...
91	M23	PX	0	0	0	%100
92	M24	PX	0	0	0	%100
93	M25	PX	0	0	0	%100
94	M26	PX	0	0	0	%100
95	M27	PX	0	0	0	%100
96	M28	PX	0	0	0	%100
97	M29	PX	0	0	0	%100
98	M30	PX	0	0	0	%100
99	M31	PX	0	0	0	%100
100	M32	PX	0	0	0	%100
101	M33	PX	0	0	0	%100
102	M34	PX	0	0	0	%100
103	M35	PX	0	0	0	%100
104	M36	PX	0	0	0	%100
105	M37	PX	0	0	0	%100
106	M38	PX	0	0	0	%100
107	M39	PX	0	0	0	%100
108	M40	PX	0	0	0	%100
109	M41	PX	0	0	0	%100
110	M42	PX	0	0	0	%100
111	M43	PX	0	0	0	%100
112	M44	PX	0	0	0	%100
113	M45	PX	0	0	0	%100
114	M46	PX	0	0	0	%100
115	M47	PX	0	0	0	%100
116	M48	PX	0	0	0	%100
117	M49	PX	0	0	0	%100
118	M50	PX	0	0	0	%100
119	M51	PX	0	0	0	%100
120	M52	PX	0	0	0	%100
121	M53	PX	0	0	0	%100
122	M54	PX	0	0	0	%100
123	M55	PX	0	0	0	%100
124	M56	PX	0	0	0	%100
125	M57	PX	0	0	0	%100
126	M58	PX	0	0	0	%100
127	M59	PX	0	0	0	%100
128	M60	PX	0	0	0	%100

**Member Distributed Loads (BLC 22 : Ice Wind Members (30 Deg))**

	Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft.F,ksf]	Start Location[ft..	End Location[ft...
1	M1	PZ	-.01	-.01	0	%100
2	M2	PZ	-.01	-.01	0	%100
3	M3	PZ	-.01	-.01	0	%30
4	M4	PZ	-.01	-.01	0	%30
5	M5	PZ	-.004	-.004	0	%100
6	M6	PZ	-.004	-.004	0	%100
7	M7	PZ	-.004	-.004	0	%100
8	M8	PZ	-.004	-.004	0	%100
9	M9	PZ	-.001	-.001	0	%100
10	M10	PZ	-.004	-.004	0	%100
11	M11	PZ	-.004	-.004	0	%100
12	M12	PZ	-.004	-.004	0	%100
13	M13	PZ	-.004	-.004	0	%100
14	M14	PZ	-.001	-.001	0	%100
15	M15	PZ	-.002	-.002	0	%100





Company : Nexius  
 Designer : Akshay Doddamani  
 Job Number : VZW467170A01  
 Model Name : NAUGATUCK 4 CT

Aug 9, 2021  
 3:07 PM  
 Checked By: Jiazhu Hu

**Member Distributed Loads (BLC 22 : Ice Wind Members (30 Deg)) (Continued)**

	Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Locationft..	End Locationft...
16	M16	PZ	0	0	0	%100
17	M17	PZ	-.001	-.001	0	%100
18	M18	PZ	-.001	-.001	0	%100
19	M19	PZ	-.002	-.002	0	%100
20	M20	PZ	0	0	0	%100
21	M21	PZ	-.003	-.003	0	%22.9
22	M22	PZ	0	0	0	%100
23	M23	PZ	0	0	0	%100
24	M24	PZ	-.003	-.003	0	%6
25	M25	PZ	0	0	0	%100
26	M26	PZ	0	0	0	%100
27	M27	PZ	-.003	-.003	0	%25.6
28	M28	PZ	-.001	-.001	0	%100
29	M29	PZ	-.002	-.002	0	%100
30	M30	PZ	0	0	0	%100
31	M31	PZ	-.001	-.001	0	%100
32	M32	PZ	-.002	-.002	0	%100
33	M33	PZ	0	0	0	%100
34	M34	PZ	-.003	-.003	0	%25.6
35	M35	PZ	0	0	0	%100
36	M36	PZ	0	0	0	%100
37	M37	PZ	-.003	-.003	0	%6
38	M38	PZ	0	0	0	%100
39	M39	PZ	0	0	0	%100
40	M40	PZ	-.003	-.003	0	%22.9
41	M41	PZ	-.008	-.008	0	%100
42	M42	PZ	-.008	-.008	0	%100
43	M43	PZ	-.008	-.008	0	%100
44	M44	PZ	-.008	-.008	0	%100
45	M45	PZ	0	0	0	%100
46	M46	PZ	0	0	0	%100
47	M47	PZ	0	0	0	%100
48	M48	PZ	0	0	0	%100
49	M49	PZ	0	0	0	%100
50	M50	PZ	0	0	0	%100
51	M51	PZ	-.008	-.008	0	%100
52	M52	PZ	-.008	-.008	0	%100
53	M53	PZ	-.008	-.008	0	%100
54	M54	PZ	-.008	-.008	0	%100
55	M55	PZ	0	0	0	%100
56	M56	PZ	0	0	0	%100
57	M57	PZ	0	0	0	%100
58	M58	PZ	0	0	0	%100
59	M59	PZ	0	0	0	%100
60	M60	PZ	0	0	0	%100
61	M3	PZ	-.01	-.01	%40	%100
62	M4	PZ	-.01	-.01	%40	%100
63	M21	PZ	-.003	-.003	%77.1	%100
64	M24	PZ	-.003	-.003	%75	%100
65	M27	PZ	-.003	-.003	%74.4	%100
66	M34	PZ	-.003	-.003	%74.4	%100
67	M37	PZ	-.003	-.003	%75	%100
68	M40	PZ	-.003	-.003	%77.1	%100
69	M1	PX	.006	.006	0	%100
70	M2	PX	.006	.006	0	%100
71	M3	PX	.006	.006	0	%100
72	M4	PX	.006	.006	0	%100



Company : Nexius  
 Designer : Akshay Doddamani  
 Job Number : VZW467170A01  
 Model Name : NAUGATUCK 4 CT

Aug 9, 2021  
 3:07 PM  
 Checked By: Jiazhu Hu

**Member Distributed Loads (BLC 22 : Ice Wind Members (30 Deg)) (Continued)**

Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft.F,ksf]	Start Location[ft..	End Location[ft...
73	M5	PX	.002	0	%100
74	M6	PX	.002	0	%100
75	M7	PX	.002	0	%100
76	M8	PX	.002	0	%100
77	M9	PX	0	0	%100
78	M10	PX	.002	0	%100
79	M11	PX	.002	0	%100
80	M12	PX	.002	0	%100
81	M13	PX	.002	0	%100
82	M14	PX	.001	0	%100
83	M15	PX	.001	0	%100
84	M16	PX	0	0	%100
85	M17	PX	0	0	%100
86	M18	PX	.001	0	%100
87	M19	PX	.001	0	%100
88	M20	PX	0	0	%100
89	M21	PX	.001	0	%100
90	M22	PX	0	0	%100
91	M23	PX	0	0	%100
92	M24	PX	.001	0	%100
93	M25	PX	0	0	%100
94	M26	PX	0	0	%100
95	M27	PX	.001	0	%100
96	M28	PX	.001	0	%100
97	M29	PX	.001	0	%100
98	M30	PX	0	0	%100
99	M31	PX	.001	0	%100
100	M32	PX	.001	0	%100
101	M33	PX	0	0	%100
102	M34	PX	.001	0	%100
103	M35	PX	0	0	%100
104	M36	PX	0	0	%100
105	M37	PX	.001	0	%100
106	M38	PX	0	0	%100
107	M39	PX	0	0	%100
108	M40	PX	.001	0	%100
109	M41	PX	.004	0	%100
110	M42	PX	.004	0	%100
111	M43	PX	.004	0	%100
112	M44	PX	.004	0	%100
113	M45	PX	0	0	%100
114	M46	PX	0	0	%100
115	M47	PX	0	0	%100
116	M48	PX	0	0	%100
117	M49	PX	0	0	%100
118	M50	PX	0	0	%100
119	M51	PX	.004	0	%100
120	M52	PX	.004	0	%100
121	M53	PX	.004	0	%100
122	M54	PX	.004	0	%100
123	M55	PX	0	0	%100
124	M56	PX	0	0	%100
125	M57	PX	0	0	%100
126	M58	PX	0	0	%100
127	M59	PX	0	0	%100
128	M60	PX	0	0	%100



Company : Nexius  
 Designer : Akshay Doddamani  
 Job Number : VZW467170A01  
 Model Name : NAUGATUCK 4 CT

Aug 9, 2021  
 3:07 PM  
 Checked By: Jiazhu Hu

**Member Distributed Loads (BLC 23 : Ice Wind Members (60 Deg))**

Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft.F,ksf]	Start Location[ft..	End Location[ft...
1	M1	PZ	-.006	0	%100
2	M2	PZ	-.006	0	%100
3	M3	PZ	-.006	0	%30
4	M4	PZ	-.006	0	%30
5	M5	PZ	-.002	0	%100
6	M6	PZ	-.002	0	%100
7	M7	PZ	-.002	0	%100
8	M8	PZ	-.002	0	%100
9	M9	PZ	-.001	0	%100
10	M10	PZ	-.002	0	%100
11	M11	PZ	-.002	0	%100
12	M12	PZ	-.002	0	%100
13	M13	PZ	-.002	0	%100
14	M14	PZ	-.002	0	%100
15	M15	PZ	-.001	0	%100
16	M16	PZ	0	0	%100
17	M17	PZ	-.001	0	%100
18	M18	PZ	-.002	0	%100
19	M19	PZ	-.001	0	%100
20	M20	PZ	0	0	%100
21	M21	PZ	-.001	0	%22.9
22	M22	PZ	0	0	%100
23	M23	PZ	0	0	%100
24	M24	PZ	-.001	0	%6
25	M25	PZ	0	0	%100
26	M26	PZ	0	0	%100
27	M27	PZ	-.001	0	%25.6
28	M28	PZ	-.002	0	%100
29	M29	PZ	-.001	0	%100
30	M30	PZ	0	0	%100
31	M31	PZ	-.002	0	%100
32	M32	PZ	-.001	0	%100
33	M33	PZ	0	0	%100
34	M34	PZ	-.001	0	%25.6
35	M35	PZ	0	0	%100
36	M36	PZ	0	0	%100
37	M37	PZ	-.001	0	%6
38	M38	PZ	0	0	%100
39	M39	PZ	0	0	%100
40	M40	PZ	-.001	0	%22.9
41	M41	PZ	-.002	0	%100
42	M42	PZ	-.002	0	%100
43	M43	PZ	-.002	0	%100
44	M44	PZ	-.002	0	%100
45	M45	PZ	0	0	%100
46	M46	PZ	0	0	%100
47	M47	PZ	0	0	%100
48	M48	PZ	0	0	%100
49	M49	PZ	0	0	%100
50	M50	PZ	0	0	%100
51	M51	PZ	-.002	0	%100
52	M52	PZ	-.002	0	%100
53	M53	PZ	-.002	0	%100
54	M54	PZ	-.002	0	%100
55	M55	PZ	0	0	%100
56	M56	PZ	0	0	%100
57	M57	PZ	0	0	%100



Company : Nexius  
 Designer : Akshay Doddamani  
 Job Number : VZW467170A01  
 Model Name : NAUGATUCK 4 CT

Aug 9, 2021  
 3:07 PM  
 Checked By: Jiazhu Hu

**Member Distributed Loads (BLC 23 : Ice Wind Members (60 Deg)) (Continued)**

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Locationft..	End Locationft...
58	M58	PZ	0	0	%100
59	M59	PZ	0	0	%100
60	M60	PZ	0	0	%100
61	M3	PZ	-.006	-.006	%40 %100
62	M4	PZ	-.006	-.006	%40 %100
63	M21	PZ	-.001	-.001	%77.1 %100
64	M24	PZ	-.001	-.001	%75 %100
65	M27	PZ	-.001	-.001	%74.4 %100
66	M34	PZ	-.001	-.001	%74.4 %100
67	M37	PZ	-.001	-.001	%75 %100
68	M40	PZ	-.001	-.001	%77.1 %100
69	M1	PX	.01	.01	0 %100
70	M2	PX	.01	.01	0 %100
71	M3	PX	.01	.01	0 %100
72	M4	PX	.01	.01	0 %100
73	M5	PX	.004	.004	0 %100
74	M6	PX	.004	.004	0 %100
75	M7	PX	.004	.004	0 %100
76	M8	PX	.004	.004	0 %100
77	M9	PX	.002	.002	0 %100
78	M10	PX	.004	.004	0 %100
79	M11	PX	.004	.004	0 %100
80	M12	PX	.004	.004	0 %100
81	M13	PX	.004	.004	0 %100
82	M14	PX	.003	.003	0 %100
83	M15	PX	.002	.002	0 %100
84	M16	PX	0	0	0 %100
85	M17	PX	.002	.002	0 %100
86	M18	PX	.003	.003	0 %100
87	M19	PX	.002	.002	0 %100
88	M20	PX	0	0	0 %100
89	M21	PX	.003	.003	0 %100
90	M22	PX	0	0	0 %100
91	M23	PX	0	0	0 %100
92	M24	PX	.003	.003	0 %100
93	M25	PX	0	0	0 %100
94	M26	PX	0	0	0 %100
95	M27	PX	.003	.003	0 %100
96	M28	PX	.003	.003	0 %100
97	M29	PX	.002	.002	0 %100
98	M30	PX	0	0	0 %100
99	M31	PX	.003	.003	0 %100
100	M32	PX	.002	.002	0 %100
101	M33	PX	0	0	0 %100
102	M34	PX	.003	.003	0 %100
103	M35	PX	0	0	0 %100
104	M36	PX	0	0	0 %100
105	M37	PX	.003	.003	0 %100
106	M38	PX	0	0	0 %100
107	M39	PX	0	0	0 %100
108	M40	PX	.003	.003	0 %100
109	M41	PX	.004	.004	0 %100
110	M42	PX	.004	.004	0 %100
111	M43	PX	.004	.004	0 %100
112	M44	PX	.004	.004	0 %100
113	M45	PX	0	0	0 %100
114	M46	PX	0	0	0 %100



Company : Nexius  
 Designer : Akshay Doddamani  
 Job Number : VZW467170A01  
 Model Name : NAUGATUCK 4 CT

Aug 9, 2021  
 3:07 PM  
 Checked By: Jiazhu Hu

**Member Distributed Loads (BLC 23 : Ice Wind Members (60 Deg)) (Continued)**

	Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft.F,ksf]	Start Location[ft..	End Location[ft...
115	M47	PX	0	0	0	%100
116	M48	PX	0	0	0	%100
117	M49	PX	0	0	0	%100
118	M50	PX	0	0	0	%100
119	M51	PX	.004	.004	0	%100
120	M52	PX	.004	.004	0	%100
121	M53	PX	.004	.004	0	%100
122	M54	PX	.004	.004	0	%100
123	M55	PX	0	0	0	%100
124	M56	PX	0	0	0	%100
125	M57	PX	0	0	0	%100
126	M58	PX	0	0	0	%100
127	M59	PX	0	0	0	%100
128	M60	PX	0	0	0	%100

**Member Distributed Loads (BLC 24 : Ice Wind Members (90 Deg))**

	Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft.F,ksf]	Start Location[ft..	End Location[ft...
1	M1	PZ	0	0	0	%100
2	M2	PZ	0	0	0	%100
3	M3	PZ	0	0	0	%30
4	M4	PZ	0	0	0	%30
5	M5	PZ	0	0	0	%100
6	M6	PZ	0	0	0	%100
7	M7	PZ	0	0	0	%100
8	M8	PZ	0	0	0	%100
9	M9	PZ	0	0	0	%100
10	M10	PZ	0	0	0	%100
11	M11	PZ	0	0	0	%100
12	M12	PZ	0	0	0	%100
13	M13	PZ	0	0	0	%100
14	M14	PZ	0	0	0	%100
15	M15	PZ	0	0	0	%100
16	M16	PZ	0	0	0	%100
17	M17	PZ	0	0	0	%100
18	M18	PZ	0	0	0	%100
19	M19	PZ	0	0	0	%100
20	M20	PZ	0	0	0	%100
21	M21	PZ	0	0	0	%22.9
22	M22	PZ	0	0	0	%100
23	M23	PZ	0	0	0	%100
24	M24	PZ	0	0	0	%6
25	M25	PZ	0	0	0	%100
26	M26	PZ	0	0	0	%100
27	M27	PZ	0	0	0	%25.6
28	M28	PZ	0	0	0	%100
29	M29	PZ	0	0	0	%100
30	M30	PZ	0	0	0	%100
31	M31	PZ	0	0	0	%100
32	M32	PZ	0	0	0	%100
33	M33	PZ	0	0	0	%100
34	M34	PZ	0	0	0	%25.6
35	M35	PZ	0	0	0	%100
36	M36	PZ	0	0	0	%100
37	M37	PZ	0	0	0	%6
38	M38	PZ	0	0	0	%100
39	M39	PZ	0	0	0	%100



Company : Nexius  
 Designer : Akshay Doddamani  
 Job Number : VZW467170A01  
 Model Name : NAUGATUCK 4 CT

Aug 9, 2021  
 3:07 PM  
 Checked By: Jiazhu Hu

**Member Distributed Loads (BLC 24 : Ice Wind Members (90 Deg)) (Continued)**

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Locationft..	End Locationft...
40	M40	PZ	0	0	%22.9
41	M41	PZ	0	0	%100
42	M42	PZ	0	0	%100
43	M43	PZ	0	0	%100
44	M44	PZ	0	0	%100
45	M45	PZ	0	0	%100
46	M46	PZ	0	0	%100
47	M47	PZ	0	0	%100
48	M48	PZ	0	0	%100
49	M49	PZ	0	0	%100
50	M50	PZ	0	0	%100
51	M51	PZ	0	0	%100
52	M52	PZ	0	0	%100
53	M53	PZ	0	0	%100
54	M54	PZ	0	0	%100
55	M55	PZ	0	0	%100
56	M56	PZ	0	0	%100
57	M57	PZ	0	0	%100
58	M58	PZ	0	0	%100
59	M59	PZ	0	0	%100
60	M60	PZ	0	0	%100
61	M3	PZ	0	%40	%100
62	M4	PZ	0	%40	%100
63	M21	PZ	0	%77.1	%100
64	M24	PZ	0	%75	%100
65	M27	PZ	0	%74.4	%100
66	M34	PZ	0	%74.4	%100
67	M37	PZ	0	%75	%100
68	M40	PZ	0	%77.1	%100
69	M1	PX	.012	0	%100
70	M2	PX	.012	0	%100
71	M3	PX	.012	0	%100
72	M4	PX	.012	0	%100
73	M5	PX	.005	0	%100
74	M6	PX	.005	0	%100
75	M7	PX	.005	0	%100
76	M8	PX	.005	0	%100
77	M9	PX	.003	0	%100
78	M10	PX	.005	0	%100
79	M11	PX	.005	0	%100
80	M12	PX	.005	0	%100
81	M13	PX	.005	0	%100
82	M14	PX	.005	0	%100
83	M15	PX	.002	0	%100
84	M16	PX	0	0	%100
85	M17	PX	.003	0	%100
86	M18	PX	.005	0	%100
87	M19	PX	.002	0	%100
88	M20	PX	0	0	%100
89	M21	PX	.003	0	%100
90	M22	PX	0	0	%100
91	M23	PX	0	0	%100
92	M24	PX	.003	0	%100
93	M25	PX	0	0	%100
94	M26	PX	0	0	%100
95	M27	PX	.003	0	%100
96	M28	PX	.005	0	%100



Company : Nexius  
 Designer : Akshay Doddamani  
 Job Number : VZW467170A01  
 Model Name : NAUGATUCK 4 CT

Aug 9, 2021  
 3:07 PM  
 Checked By: Jiazhu Hu

**Member Distributed Loads (BLC 24 : Ice Wind Members (90 Deg)) (Continued)**

	Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft.F,ksf]	Start Location[ft..	End Location[ft....
97	M29	PX	.002	.002	0	%100
98	M30	PX	0	0	0	%100
99	M31	PX	.005	.005	0	%100
100	M32	PX	.002	.002	0	%100
101	M33	PX	0	0	0	%100
102	M34	PX	.003	.003	0	%100
103	M35	PX	0	0	0	%100
104	M36	PX	0	0	0	%100
105	M37	PX	.003	.003	0	%100
106	M38	PX	0	0	0	%100
107	M39	PX	0	0	0	%100
108	M40	PX	.003	.003	0	%100
109	M41	PX	.003	.003	0	%100
110	M42	PX	.003	.003	0	%100
111	M43	PX	.003	.003	0	%100
112	M44	PX	.003	.003	0	%100
113	M45	PX	0	0	0	%100
114	M46	PX	0	0	0	%100
115	M47	PX	0	0	0	%100
116	M48	PX	0	0	0	%100
117	M49	PX	0	0	0	%100
118	M50	PX	0	0	0	%100
119	M51	PX	.003	.003	0	%100
120	M52	PX	.003	.003	0	%100
121	M53	PX	.003	.003	0	%100
122	M54	PX	.003	.003	0	%100
123	M55	PX	0	0	0	%100
124	M56	PX	0	0	0	%100
125	M57	PX	0	0	0	%100
126	M58	PX	0	0	0	%100
127	M59	PX	0	0	0	%100
128	M60	PX	0	0	0	%100

**Member Distributed Loads (BLC 25 : Ice Wind Members (120 Deg))**

	Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft.F,ksf]	Start Location[ft..	End Location[ft....
1	M1	PZ	.006	.006	0	%100
2	M2	PZ	.006	.006	0	%100
3	M3	PZ	.006	.006	0	%30
4	M4	PZ	.006	.006	0	%30
5	M5	PZ	.002	.002	0	%100
6	M6	PZ	.002	.002	0	%100
7	M7	PZ	.002	.002	0	%100
8	M8	PZ	.002	.002	0	%100
9	M9	PZ	.001	.001	0	%100
10	M10	PZ	.002	.002	0	%100
11	M11	PZ	.002	.002	0	%100
12	M12	PZ	.002	.002	0	%100
13	M13	PZ	.002	.002	0	%100
14	M14	PZ	.002	.002	0	%100
15	M15	PZ	.001	.001	0	%100
16	M16	PZ	0	0	0	%100
17	M17	PZ	.001	.001	0	%100
18	M18	PZ	.002	.002	0	%100
19	M19	PZ	.001	.001	0	%100
20	M20	PZ	0	0	0	%100
21	M21	PZ	.001	.001	0	%22.9



Company : Nexius  
 Designer : Akshay Doddamani  
 Job Number : VZW467170A01  
 Model Name : NAUGATUCK 4 CT

Aug 9, 2021  
 3:07 PM  
 Checked By: Jiazhu Hu

**Member Distributed Loads (BLC 25 : Ice Wind Members (120 Deg)) (Continued)**

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Locationft..	End Locationft...
22	M22	PZ	0	0	%100
23	M23	PZ	0	0	%100
24	M24	PZ	.001	.001	%6
25	M25	PZ	0	0	%100
26	M26	PZ	0	0	%100
27	M27	PZ	.001	.001	%25.6
28	M28	PZ	.002	.002	%100
29	M29	PZ	.001	.001	%100
30	M30	PZ	0	0	%100
31	M31	PZ	.002	.002	%100
32	M32	PZ	.001	.001	%100
33	M33	PZ	0	0	%100
34	M34	PZ	.001	.001	%25.6
35	M35	PZ	0	0	%100
36	M36	PZ	0	0	%100
37	M37	PZ	.001	.001	%6
38	M38	PZ	0	0	%100
39	M39	PZ	0	0	%100
40	M40	PZ	.001	.001	%22.9
41	M41	PZ	.002	.002	%100
42	M42	PZ	.002	.002	%100
43	M43	PZ	.002	.002	%100
44	M44	PZ	.002	.002	%100
45	M45	PZ	0	0	%100
46	M46	PZ	0	0	%100
47	M47	PZ	0	0	%100
48	M48	PZ	0	0	%100
49	M49	PZ	0	0	%100
50	M50	PZ	0	0	%100
51	M51	PZ	.002	.002	%100
52	M52	PZ	.002	.002	%100
53	M53	PZ	.002	.002	%100
54	M54	PZ	.002	.002	%100
55	M55	PZ	0	0	%100
56	M56	PZ	0	0	%100
57	M57	PZ	0	0	%100
58	M58	PZ	0	0	%100
59	M59	PZ	0	0	%100
60	M60	PZ	0	0	%100
61	M3	PZ	.006	.006	%40
62	M4	PZ	.006	.006	%40
63	M21	PZ	.001	.001	%77.1
64	M24	PZ	.001	.001	%75
65	M27	PZ	.001	.001	%74.4
66	M34	PZ	.001	.001	%74.4
67	M37	PZ	.001	.001	%75
68	M40	PZ	.001	.001	%77.1
69	M1	PX	.01	.01	0
70	M2	PX	.01	.01	0
71	M3	PX	.01	.01	0
72	M4	PX	.01	.01	0
73	M5	PX	.004	.004	0
74	M6	PX	.004	.004	0
75	M7	PX	.004	.004	0
76	M8	PX	.004	.004	0
77	M9	PX	.002	.002	0
78	M10	PX	.004	.004	0





Company : Nexius  
 Designer : Akshay Doddamani  
 Job Number : VZW467170A01  
 Model Name : NAUGATUCK 4 CT

Aug 9, 2021  
 3:07 PM  
 Checked By: Jiazhu Hu

**Member Distributed Loads (BLC 25 : Ice Wind Members (120 Deg)) (Continued)**

	Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft..	End Location[ft...
79	M11	PX	.004	.004	0	%100
80	M12	PX	.004	.004	0	%100
81	M13	PX	.004	.004	0	%100
82	M14	PX	.003	.003	0	%100
83	M15	PX	.002	.002	0	%100
84	M16	PX	0	0	0	%100
85	M17	PX	.002	.002	0	%100
86	M18	PX	.003	.003	0	%100
87	M19	PX	.002	.002	0	%100
88	M20	PX	0	0	0	%100
89	M21	PX	.003	.003	0	%100
90	M22	PX	0	0	0	%100
91	M23	PX	0	0	0	%100
92	M24	PX	.003	.003	0	%100
93	M25	PX	0	0	0	%100
94	M26	PX	0	0	0	%100
95	M27	PX	.003	.003	0	%100
96	M28	PX	.003	.003	0	%100
97	M29	PX	.002	.002	0	%100
98	M30	PX	0	0	0	%100
99	M31	PX	.003	.003	0	%100
100	M32	PX	.002	.002	0	%100
101	M33	PX	0	0	0	%100
102	M34	PX	.003	.003	0	%100
103	M35	PX	0	0	0	%100
104	M36	PX	0	0	0	%100
105	M37	PX	.003	.003	0	%100
106	M38	PX	0	0	0	%100
107	M39	PX	0	0	0	%100
108	M40	PX	.003	.003	0	%100
109	M41	PX	.004	.004	0	%100
110	M42	PX	.004	.004	0	%100
111	M43	PX	.004	.004	0	%100
112	M44	PX	.004	.004	0	%100
113	M45	PX	0	0	0	%100
114	M46	PX	0	0	0	%100
115	M47	PX	0	0	0	%100
116	M48	PX	0	0	0	%100
117	M49	PX	0	0	0	%100
118	M50	PX	0	0	0	%100
119	M51	PX	.004	.004	0	%100
120	M52	PX	.004	.004	0	%100
121	M53	PX	.004	.004	0	%100
122	M54	PX	.004	.004	0	%100
123	M55	PX	0	0	0	%100
124	M56	PX	0	0	0	%100
125	M57	PX	0	0	0	%100
126	M58	PX	0	0	0	%100
127	M59	PX	0	0	0	%100
128	M60	PX	0	0	0	%100

**Member Distributed Loads (BLC 26 : Ice Wind Members (150 Deg))**

	Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft..	End Location[ft...
1	M1	PZ	.01	.01	0	%100
2	M2	PZ	.01	.01	0	%100
3	M3	PZ	.01	.01	0	%30



Company : Nexius  
 Designer : Akshay Doddamani  
 Job Number : VZW467170A01  
 Model Name : NAUGATUCK 4 CT

Aug 9, 2021  
 3:07 PM  
 Checked By: Jiazhu Hu

**Member Distributed Loads (BLC 26 : Ice Wind Members (150 Deg)) (Continued)**

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Locationft..	End Locationft...
4	M4	PZ	.01	0	%30
5	M5	PZ	.004	0	%100
6	M6	PZ	.004	0	%100
7	M7	PZ	.004	0	%100
8	M8	PZ	.004	0	%100
9	M9	PZ	.001	0	%100
10	M10	PZ	.004	0	%100
11	M11	PZ	.004	0	%100
12	M12	PZ	.004	0	%100
13	M13	PZ	.004	0	%100
14	M14	PZ	.001	0	%100
15	M15	PZ	.002	0	%100
16	M16	PZ	0	0	%100
17	M17	PZ	.001	0	%100
18	M18	PZ	.001	0	%100
19	M19	PZ	.002	0	%100
20	M20	PZ	0	0	%100
21	M21	PZ	.003	0	%22.9
22	M22	PZ	0	0	%100
23	M23	PZ	0	0	%100
24	M24	PZ	.003	0	%6
25	M25	PZ	0	0	%100
26	M26	PZ	0	0	%100
27	M27	PZ	.003	0	%25.6
28	M28	PZ	.001	0	%100
29	M29	PZ	.002	0	%100
30	M30	PZ	0	0	%100
31	M31	PZ	.001	0	%100
32	M32	PZ	.002	0	%100
33	M33	PZ	0	0	%100
34	M34	PZ	.003	0	%25.6
35	M35	PZ	0	0	%100
36	M36	PZ	0	0	%100
37	M37	PZ	.003	0	%6
38	M38	PZ	0	0	%100
39	M39	PZ	0	0	%100
40	M40	PZ	.003	0	%22.9
41	M41	PZ	.008	0	%100
42	M42	PZ	.008	0	%100
43	M43	PZ	.008	0	%100
44	M44	PZ	.008	0	%100
45	M45	PZ	0	0	%100
46	M46	PZ	0	0	%100
47	M47	PZ	0	0	%100
48	M48	PZ	0	0	%100
49	M49	PZ	0	0	%100
50	M50	PZ	0	0	%100
51	M51	PZ	.008	0	%100
52	M52	PZ	.008	0	%100
53	M53	PZ	.008	0	%100
54	M54	PZ	.008	0	%100
55	M55	PZ	0	0	%100
56	M56	PZ	0	0	%100
57	M57	PZ	0	0	%100
58	M58	PZ	0	0	%100
59	M59	PZ	0	0	%100
60	M60	PZ	0	0	%100



Company : Nexius  
 Designer : Akshay Doddamani  
 Job Number : VZW467170A01  
 Model Name : NAUGATUCK 4 CT

Aug 9, 2021  
 3:07 PM  
 Checked By: Jiazhu Hu

**Member Distributed Loads (BLC 26 : Ice Wind Members (150 Deg)) (Continued)**

Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft.F,ksf]	Start Location[ft..	End Location[ft...
61	M3	PZ	.01	.01	%40 %100
62	M4	PZ	.01	.01	%40 %100
63	M21	PZ	.003	.003	%77.1 %100
64	M24	PZ	.003	.003	%75 %100
65	M27	PZ	.003	.003	%74.4 %100
66	M34	PZ	.003	.003	%74.4 %100
67	M37	PZ	.003	.003	%75 %100
68	M40	PZ	.003	.003	%77.1 %100
69	M1	PX	.006	.006	0 %100
70	M2	PX	.006	.006	0 %100
71	M3	PX	.006	.006	0 %100
72	M4	PX	.006	.006	0 %100
73	M5	PX	.002	.002	0 %100
74	M6	PX	.002	.002	0 %100
75	M7	PX	.002	.002	0 %100
76	M8	PX	.002	.002	0 %100
77	M9	PX	0	0	0 %100
78	M10	PX	.002	.002	0 %100
79	M11	PX	.002	.002	0 %100
80	M12	PX	.002	.002	0 %100
81	M13	PX	.002	.002	0 %100
82	M14	PX	.001	.001	0 %100
83	M15	PX	.001	.001	0 %100
84	M16	PX	0	0	0 %100
85	M17	PX	0	0	0 %100
86	M18	PX	.001	.001	0 %100
87	M19	PX	.001	.001	0 %100
88	M20	PX	0	0	0 %100
89	M21	PX	.001	.001	0 %100
90	M22	PX	0	0	0 %100
91	M23	PX	0	0	0 %100
92	M24	PX	.001	.001	0 %100
93	M25	PX	0	0	0 %100
94	M26	PX	0	0	0 %100
95	M27	PX	.001	.001	0 %100
96	M28	PX	.001	.001	0 %100
97	M29	PX	.001	.001	0 %100
98	M30	PX	0	0	0 %100
99	M31	PX	.001	.001	0 %100
100	M32	PX	.001	.001	0 %100
101	M33	PX	0	0	0 %100
102	M34	PX	.001	.001	0 %100
103	M35	PX	0	0	0 %100
104	M36	PX	0	0	0 %100
105	M37	PX	.001	.001	0 %100
106	M38	PX	0	0	0 %100
107	M39	PX	0	0	0 %100
108	M40	PX	.001	.001	0 %100
109	M41	PX	.004	.004	0 %100
110	M42	PX	.004	.004	0 %100
111	M43	PX	.004	.004	0 %100
112	M44	PX	.004	.004	0 %100
113	M45	PX	0	0	0 %100
114	M46	PX	0	0	0 %100
115	M47	PX	0	0	0 %100
116	M48	PX	0	0	0 %100
117	M49	PX	0	0	0 %100



Company : Nexius  
 Designer : Akshay Doddamani  
 Job Number : VZW467170A01  
 Model Name : NAUGATUCK 4 CT

Aug 9, 2021  
 3:07 PM  
 Checked By: Jiazhu Hu

**Member Distributed Loads (BLC 26 : Ice Wind Members (150 Deg)) (Continued)**

Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft.F,ksf]	Start Location[ft..	End Location[ft...
118	M50	PX	0	0	%100
119	M51	PX	.004	.004	%100
120	M52	PX	.004	.004	%100
121	M53	PX	.004	.004	%100
122	M54	PX	.004	.004	%100
123	M55	PX	0	0	%100
124	M56	PX	0	0	%100
125	M57	PX	0	0	%100
126	M58	PX	0	0	%100
127	M59	PX	0	0	%100
128	M60	PX	0	0	%100

**Member Area Loads**

Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
No Data to Print ...						

**Basic Load Cases**

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distribut...	Area(Me...	Surface(...
1	Dead	None		-1			14			
2	Ice Dead	None					14	60		
3	Full Wind Antenna (0 Deg)	None					14			
4	Full Wind Antenna (30 Deg)	None					28			
5	Full Wind Antenna (60 Deg)	None					28			
6	Full Wind Antenna (90 Deg)	None					28			
7	Full Wind Antenna (120 Deg)	None					28			
8	Full Wind Antenna (150 Deg)	None					28			
9	Full Wind Members (0 Deg)	None						80		
10	Full Wind Members (30 Deg)	None						80		
11	Full Wind Members (60 Deg)	None						80		
12	Full Wind Members (90 Deg)	None						80		
13	Full Wind Members (120 Deg)	None						80		
14	Full Wind Members (150 Deg)	None						80		
15	Ice Wind Antenna (0 Deg)	None					14			
16	Ice Wind Antenna (30 Deg)	None					28			
17	Ice Wind Antenna (60 Deg)	None					28			
18	Ice Wind Antenna (90 Deg)	None					28			
19	Ice Wind Antenna (120 Deg)	None					28			
20	Ice Wind Antenna (150 Deg)	None					28			
21	Ice Wind Members (0 Deg)	None						128		
22	Ice Wind Members (30 Deg)	None						128		
23	Ice Wind Members (60 Deg)	None						128		
24	Ice Wind Members (90 Deg)	None						128		
25	Ice Wind Members (120 Deg)	None						128		
26	Ice Wind Members (150 Deg)	None						128		
27	Seismic Antenna (0 Deg)	None					10			
28	Seismic Antenna (90 Deg)	None					10			
29	Seismic Members (0 Deg)	None		-0.04	-0.101					
30	Seismic Members (30 Deg)	None	.051	-0.04	-0.087					
31	Seismic Members (60 Deg)	None	.087	-0.04	-0.051					
32	Seismic Members (90 Deg)	None	.101	-0.04						
33	Seismic Members (120 Deg)	None	.087	-0.04	.051					
34	Seismic Members (150 Deg)	None	.051	-0.04	.087					
35	Seismic Members (180 Deg)	None		-0.04	.101					
36	Seismic Members (210 Deg)	None	-0.051	-0.04	.087					



Company : Nexius  
 Designer : Akshay Doddamani  
 Job Number : VZW467170A01  
 Model Name : NAUGATUCK 4 CT

Aug 9, 2021  
 3:07 PM  
 Checked By: Jiazhu Hu

**Basic Load Cases (Continued)**

BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distribut...	Area(Me...	Surface(...
37 Seismic Members (240 Deg)	None	-0.087	-0.04	.051					
38 Seismic Members (270 Deg)	None	-0.101	-0.04						
39 Seismic Members (300 Deg)	None	-0.087	-0.04	-0.051					
40 Seismic Members (330 Deg)	None	-0.051	-0.04	-0.087					
41 Seismic Vertical Antennas	None					10			
42 Man 1 (500 lbs)	None				1				
43 Man 2 (500 lbs)	None				1				
44 Man 3 (500 lbs)	None				1				
45 Man 4 (250 lbs)	None				1				
46 Man 5 (250 lbs)	None				1				
47 Man 6 (250 lbs)	None				1				

**Load Combinations**

Description	S...	PDe...	SR...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	
1 1.4D	Yes	Y		1	1.4																	
2 1.2D + 1.6W 0°	Yes	Y		1	1.2	3	1.6	9	1.6													
3 1.2D + 1.6W 30°	Yes	Y		1	1.2	4	1.6	10	1.6													
4 1.2D + 1.6W 60°	Yes	Y		1	1.2	5	1.6	11	1.6													
5 1.2D + 1.6W 90°	Yes	Y		1	1.2	6	1.6	12	1.6													
6 1.2D + 1.6W 120°	Yes	Y		1	1.2	7	1.6	13	1.6													
7 1.2D + 1.6W 150°	Yes	Y		1	1.2	8	1.6	14	1.6													
8 1.2D + 1.6W 180°	Yes	Y		1	1.2	3	-1.6	9	-1.6													
9 1.2D + 1.6W 210°	Yes	Y		1	1.2	4	-1.6	10	-1.6													
10 1.2D + 1.6W 240°	Yes	Y		1	1.2	5	-1.6	11	-1.6													
11 1.2D + 1.6W 270°	Yes	Y		1	1.2	6	-1.6	12	-1.6													
12 1.2D + 1.6W 300°	Yes	Y		1	1.2	7	-1.6	13	-1.6													
13 1.2D + 1.6W 330°	Yes	Y		1	1.2	8	-1.6	14	-1.6													
14 1.2D + 1.0Di + 1.0Wi 0°	Yes	Y		1	1.2	2	1	15	1	21	1											
15 1.2D + 1.0Di + 1.0Wi 30°	Yes	Y		1	1.2	2	1	16	1	22	1											
16 1.2D + 1.0Di + 1.0Wi 60°	Yes	Y		1	1.2	2	1	17	1	23	1											
17 1.2D + 1.0Di + 1.0Wi 90°	Yes	Y		1	1.2	2	1	18	1	24	1											
18 1.2D + 1.0Di + 1.0Wi 120°	Yes	Y		1	1.2	2	1	19	1	25	1											
19 1.2D + 1.0Di + 1.0Wi 150°	Yes	Y		1	1.2	2	1	20	1	26	1											
20 1.2D + 1.0Di + 1.0Wi 180°	Yes	Y		1	1.2	2	1	15	-1	21	-1											
21 1.2D + 1.0Di + 1.0Wi 210°	Yes	Y		1	1.2	2	1	16	-1	22	-1											
22 1.2D + 1.0Di + 1.0Wi 240°	Yes	Y		1	1.2	2	1	17	-1	23	-1											
23 1.2D + 1.0Di + 1.0Wi 270°	Yes	Y		1	1.2	2	1	18	-1	24	-1											
24 1.2D + 1.0Di + 1.0Wi 300°	Yes	Y		1	1.2	2	1	19	-1	25	-1											
25 1.2D + 1.0Di + 1.0Wi 330°	Yes	Y		1	1.2	2	1	20	-1	26	-1											
26 1.2D + 1.5Lm_1 + 1.0Wm 0°		Y		1	1.2	3	.252	9	.252	42	1.5											
27 1.2D + 1.5Lm_1 + 1.0Wm 3...		Y		1	1.2	4	.252	10	.252	42	1.5											
28 1.2D + 1.5Lm_1 + 1.0Wm 6...		Y		1	1.2	5	.252	11	.252	42	1.5											
29 1.2D + 1.5Lm_1 + 1.0Wm 9...		Y		1	1.2	6	.252	12	.252	42	1.5											
30 1.2D + 1.5Lm_1 + 1.0Wm 1...		Y		1	1.2	7	.252	13	.252	42	1.5											
31 1.2D + 1.5Lm_1 + 1.0Wm 1...		Y		1	1.2	8	.252	14	.252	42	1.5											
32 1.2D + 1.5Lm_1 + 1.0Wm 1...		Y		1	1.2	3	-2...	9	-2...	42	1.5											
33 1.2D + 1.5Lm_1 + 1.0Wm 2...		Y		1	1.2	4	-2...	10	-2...	42	1.5											
34 1.2D + 1.5Lm_1 + 1.0Wm 2...		Y		1	1.2	5	-2...	11	-2...	42	1.5											
35 1.2D + 1.5Lm_1 + 1.0Wm 2...		Y		1	1.2	6	-2...	12	-2...	42	1.5											
36 1.2D + 1.5Lm_1 + 1.0Wm 3...		Y		1	1.2	7	-2...	13	-2...	42	1.5											
37 1.2D + 1.5Lm_1 + 1.0Wm 3...		Y		1	1.2	8	-2...	14	-2...	42	1.5											
38 1.2D + 1.5Lm_2 + 1.0Wm 0°		Y		1	1.2	3	.252	9	.252	43	1.5											
39 1.2D + 1.5Lm_2 + 1.0Wm 3...		Y		1	1.2	4	.252	10	.252	43	1.5											
40 1.2D + 1.5Lm_2 + 1.0Wm 6...		Y		1	1.2	5	.252	11	.252	43	1.5											
41 1.2D + 1.5Lm_2 + 1.0Wm 9...		Y		1	1.2	6	.252	12	.252	43	1.5											



Company : Nexius  
 Designer : Akshay Doddamani  
 Job Number : VZW467170A01  
 Model Name : NAUGATUCK 4 CT

Aug 9, 2021  
 3:07 PM  
 Checked By: Jiazhu Hu

**Load Combinations (Continued)**

	Description	S...	PDe...	SR...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...
42	1.2D + 1.5Lm_2 + 1.0Wm 1...		Y		1	1.2	7	.252	13	.252	43	1.5										
43	1.2D + 1.5Lm_2 + 1.0Wm 1...		Y		1	1.2	8	.252	14	.252	43	1.5										
44	1.2D + 1.5Lm_2 + 1.0Wm 1...		Y		1	1.2	3	-.2...	9	-.2...	43	1.5										
45	1.2D + 1.5Lm_2 + 1.0Wm 2...		Y		1	1.2	4	-.2...	10	-.2...	43	1.5										
46	1.2D + 1.5Lm_2 + 1.0Wm 2...		Y		1	1.2	5	-.2...	11	-.2...	43	1.5										
47	1.2D + 1.5Lm_2 + 1.0Wm 2...		Y		1	1.2	6	-.2...	12	-.2...	43	1.5										
48	1.2D + 1.5Lm_2 + 1.0Wm 3...		Y		1	1.2	7	-.2...	13	-.2...	43	1.5										
49	1.2D + 1.5Lm_2 + 1.0Wm 3...		Y		1	1.2	8	-.2...	14	-.2...	43	1.5										
50	1.2D + 1.5Lm_3 + 1.0Wm 0°		Y		1	1.2	3	.252	9	.252	44	1.5										
51	1.2D + 1.5Lm_3 + 1.0Wm 3...		Y		1	1.2	4	.252	10	.252	44	1.5										
52	1.2D + 1.5Lm_3 + 1.0Wm 6...		Y		1	1.2	5	.252	11	.252	44	1.5										
53	1.2D + 1.5Lm_3 + 1.0Wm 9...		Y		1	1.2	6	.252	12	.252	44	1.5										
54	1.2D + 1.5Lm_3 + 1.0Wm 1...		Y		1	1.2	7	.252	13	.252	44	1.5										
55	1.2D + 1.5Lm_3 + 1.0Wm 1...		Y		1	1.2	8	.252	14	.252	44	1.5										
56	1.2D + 1.5Lm_3 + 1.0Wm 1...		Y		1	1.2	3	-.2...	9	-.2...	44	1.5										
57	1.2D + 1.5Lm_3 + 1.0Wm 2...		Y		1	1.2	4	-.2...	10	-.2...	44	1.5										
58	1.2D + 1.5Lm_3 + 1.0Wm 2...		Y		1	1.2	5	-.2...	11	-.2...	44	1.5										
59	1.2D + 1.5Lm_3 + 1.0Wm 2...		Y		1	1.2	6	-.2...	12	-.2...	44	1.5										
60	1.2D + 1.5Lm_3 + 1.0Wm 3...		Y		1	1.2	7	-.2...	13	-.2...	44	1.5										
61	1.2D + 1.5Lm_3 + 1.0Wm 3...		Y		1	1.2	8	-.2...	14	-.2...	44	1.5										
62	1.2D + 1.5Lv_1 0°		Y		1	1.2	45	1.5														
63	1.2D + 1.5Lv_1 30°		Y		1	1.2	45	1.5														
64	1.2D + 1.5Lv_1 60°		Y		1	1.2	45	1.5														
65	1.2D + 1.5Lv_1 90°		Y		1	1.2	45	1.5														
66	1.2D + 1.5Lv_1 120°		Y		1	1.2	45	1.5														
67	1.2D + 1.5Lv_1 150°		Y		1	1.2	45	1.5														
68	1.2D + 1.5Lv_1 180°		Y		1	1.2	45	1.5														
69	1.2D + 1.5Lv_1 210°		Y		1	1.2	45	1.5														
70	1.2D + 1.5Lv_1 240°		Y		1	1.2	45	1.5														
71	1.2D + 1.5Lv_1 270°		Y		1	1.2	45	1.5														
72	1.2D + 1.5Lv_1 300°		Y		1	1.2	45	1.5														
73	1.2D + 1.5Lv_1 330°		Y		1	1.2	45	1.5														
74	1.2D + 1.5Lv_2 0°		Y		1	1.2	46	1.5														
75	1.2D + 1.5Lv_2 30°		Y		1	1.2	46	1.5														
76	1.2D + 1.5Lv_2 60°		Y		1	1.2	46	1.5														
77	1.2D + 1.5Lv_2 90°		Y		1	1.2	46	1.5														
78	1.2D + 1.5Lv_2 120°		Y		1	1.2	46	1.5														
79	1.2D + 1.5Lv_2 150°		Y		1	1.2	46	1.5														
80	1.2D + 1.5Lv_2 180°		Y		1	1.2	46	1.5														
81	1.2D + 1.5Lv_2 210°		Y		1	1.2	46	1.5														
82	1.2D + 1.5Lv_2 240°		Y		1	1.2	46	1.5														
83	1.2D + 1.5Lv_2 270°		Y		1	1.2	46	1.5														
84	1.2D + 1.5Lv_2 300°		Y		1	1.2	46	1.5														
85	1.2D + 1.5Lv_2 330°		Y		1	1.2	46	1.5														
86	1.2D + 1.5Lv_3 0°		Y		1	1.2	47	1.5														
87	1.2D + 1.5Lv_3 30°		Y		1	1.2	47	1.5														
88	1.2D + 1.5Lv_3 60°		Y		1	1.2	47	1.5														
89	1.2D + 1.5Lv_3 90°		Y		1	1.2	47	1.5														
90	1.2D + 1.5Lv_3 120°		Y		1	1.2	47	1.5														
91	1.2D + 1.5Lv_3 150°		Y		1	1.2	47	1.5														
92	1.2D + 1.5Lv_3 180°		Y		1	1.2	47	1.5														
93	1.2D + 1.5Lv_3 210°		Y		1	1.2	47	1.5														
94	1.2D + 1.5Lv_3 240°		Y		1	1.2	47	1.5														
95	1.2D + 1.5Lv_3 270°		Y		1	1.2	47	1.5														
96	1.2D + 1.5Lv_3 300°		Y		1	1.2	47	1.5														
97	1.2D + 1.5Lv_3 330°		Y		1	1.2	47	1.5														
98	1.2D + 1.0EV + 1.0 EH 0°	Yes	Y		1	1.2	27	1	28		29	1	41	1								



Company : Nexius  
 Designer : Akshay Doddamani  
 Job Number : VZW467170A01  
 Model Name : NAUGATUCK 4 CT

Aug 9, 2021  
 3:07 PM  
 Checked By: Jiazhu Hu

**Load Combinations (Continued)**

	Description	S...	PDe...	SR...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...
99	1.2D + 1.0EV +1.0 EH 30°	Yes	Y		1	1.2	27.866	28	.5	30	1	41	1							
100	1.2D + 1.0EV +1.0 EH 60°	Yes	Y		1	1.2	27.5	28.866	31	1	41	1								
101	1.2D + 1.0EV +1.0 EH 90°	Yes	Y		1	1.2	27	28	1	32	1	41	1							
102	1.2D + 1.0EV +1.0 EH 120°	Yes	Y		1	1.2	27-.5	28.866	33	1	41	1								
103	1.2D + 1.0EV +1.0 EH 150°	Yes	Y		1	1.2	27-.8...	28	.5	34	1	41	1							
104	1.2D + 1.0EV +1.0 EH 180°	Yes	Y		1	1.2	27-.1	28		35	1	41	1							
105	1.2D + 1.0EV +1.0 EH 210°	Yes	Y		1	1.2	27-.8...	28	-.5	36	1	41	1							
106	1.2D + 1.0EV +1.0 EH 240°	Yes	Y		1	1.2	27-.5	28-.8...	37	1	41	1								
107	1.2D + 1.0EV +1.0 EH 270°	Yes	Y		1	1.2	27	28	-.1	38	1	41	1							
108	1.2D + 1.0EV +1.0 EH 300°	Yes	Y		1	1.2	27.5	28-.8...	39	1	41	1								
109	1.2D + 1.0EV +1.0 EH 330°	Yes	Y		1	1.2	27.866	28	-.5	40	1	41	1							

**Envelope Joint Reactions**

Joint	X [k]	LC	Y [k]	LC	Z [k]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC		
1	N3	m...	3.135	11	19.361	7	.799	2	1.435	2	.044	7	.716	5
2		m...	-3.152	5	-16.876	13	-.779	7	-1.441	8	-.046	2	-.721	11
3	N2	m...	3.105	11	19.44	3	.799	3	1.481	3	.069	9	.708	5
4		m...	-3.114	5	-16.961	9	-.827	8	-1.465	8	-.075	3	-.715	11
5	N92A	m...	6.838	5	11.181	6	.307	2	.571	2	.244	8	4.047	6
6		m...	-6.666	11	-10.216	12	-.312	8	-.601	8	-.251	2	-3.575	12
7	N93A	m...	6.747	5	11.109	4	.315	2	.605	2	.302	9	4.049	3
8		m...	-6.594	11	-10.163	10	-.31	8	-.573	8	-.322	3	-3.581	9
9	N94	m...	7.35	11	35.738	9	2.939	2	6.117	2	1.733	7	24.701	7
10		m...	-7.498	5	-32.275	3	-2.8	8	-6.029	8	-1.795	2	-22.127	13
11	N95	m...	7.403	11	35.617	13	2.797	2	6.101	2	2.074	8	24.745	3
12		m...	-7.555	5	-32.145	7	-2.936	8	-6.184	8	-1.99	3	-22.18	9
13	Totals:	m...	7.734	11	9.714	17	7.948	2						
14		m...	-7.734	5	7.528	11	-7.948	8						

**Envelope AISC 15th(360-16): LRFD Steel Code Checks**

Member	Shape	Code C...	Loc[ft]	LC	Shear ...	Loc[ft]	Dir	LC	phi*Pnc [k]	phi*Pnt [k]	phi*Mn y...	phi*Mn z...	Cb	Eqn	
1	M1	HSS12X4X8	.632	8.969	9	.067	8.969	z	8	125.578	558.9	72.105	161.115	2...	H1-1a
2	M2	HSS12X4X8	.632	8.969	13	.059	8.969	z	2	125.578	558.9	72.105	161.115	2...	H1-1a
3	M3	HSS12X4X8	.634	26.156	7	.063	21.094	z	8	75.967	558.9	72.105	161.115	2...	H1-1a
4	M4	HSS12X4X8	.636	26.156	3	.067	21.094	z	2	75.967	558.9	72.105	161.115	1...	H1-1a
5	M5	L4X4X4	.054	5.831	5	.006	5.831	y	5	40.57	62.532	3.138	6.548	1...	H2-1
6	M6	L4X4X4	.052	5.831	4	.004	5.831	y	5	40.57	62.532	3.138	6.755	2...	H2-1
7	M7	L4X4X4	.259	5.831	8	.009	5.831	z	13	40.57	62.532	3.138	6.479	1...	H2-1
8	M8	L4X4X4	.274	5.831	2	.010	5.831	z	7	40.57	62.532	3.138	6.657	2...	H2-1
9	M9	L4X4X4	.969	0	2	.117	3	y	8	49.435	62.532	3.138	6.715	2...	H2-1
10	M10	L4X4X4	.483	5.831	8	.015	5.831	z	9	40.57	62.532	3.138	6.715	2...	H2-1
11	M11	L4X4X4	.516	5.831	2	.020	5.831	z	8	40.57	62.532	3.138	6.715	2...	H2-1
12	M12	L4X4X4	.332	0	8	.013	5.831	z	2	40.57	62.532	3.138	6.715	2...	H2-1
13	M13	L4X4X4	.354	0	2	.017	5.831	z	8	40.57	62.532	3.138	6.7	2...	H2-1
14	M14	HSS6X6X4	.033	0	20	.022	0	y	22	216.472	216.936	38.64	38.64	1...	H1-1b
15	M15	PIPE 2.5	.135	3.889	22	.059	2.917		8	38.388	50.715	3.596	3.596	2...	H1-1b
16	M17	L4X4X4	.511	0	2	.051	0	y	2	49.435	62.532	3.138	6.715	2...	H2-1
17	M18	HSS6X6X4	.040	0	7	.019	0	z	12	216.472	216.936	38.64	38.64	1...	H1-1b
18	M19	PIPE 2.5	.255	3.889	2	.205	3.889		2	38.388	50.715	3.596	3.596	2...	H1-1b
19	M21	PIPE 2.0	.074	3.75	2	.021	3.75		3	20.867	32.13	1.872	1.872	3...	H1-1b
20	M24	PIPE 2.0	.435	3.75	8	.082	3.75		8	20.867	32.13	1.872	1.872	4...	H1-1b
21	M27	PIPE 2.0	.117	3.75	22	.049	3.75		13	20.867	32.13	1.872	1.872	3...	H1-1b
22	M28	HSS6X6X4	.032	0	15	.022	0	y	16	216.472	216.936	38.64	38.64	1...	H1-1b
23	M29	PIPE 2.5	.134	1.944	16	.055	2.917		2	38.388	50.715	3.596	3.596	2...	H1-1b



Company : Nexius  
 Designer : Akshay Doddamani  
 Job Number : VZW467170A01  
 Model Name : NAUGATUCK 4 CT

Aug 9, 2021  
 3:07 PM  
 Checked By: Jiazhu Hu

**Envelope AISC 15th(360-16): LRFD Steel Code Checks (Continued)**

Member	Shape	Code C...	Loc[ft]	LC Shear ...	Loc[ft]	Dir	LC	phi*Pnc [k]	phi*Pnt [k]	phi*Mn y...	phi*Mn z...	Cb	Eqn		
24	M31	HSS6X6X4	.044	0	13	.019	0	z	6	216.472	216.936	38.64	38.64	1...	H1-1b
25	M32	PIPE 2.5	.254	1.944	2	.207	1.944		8	38.388	50.715	3.596	3.596	1...	H1-1b
26	M34	PIPE 2.0	.117	3.75	16	.049	3.75		7	20.867	32.13	1.872	1.872	3...	H1-1b
27	M37	PIPE 2.0	.434	3.75	2	.082	3.75		2	20.867	32.13	1.872	1.872	4...	H1-1b
28	M40	PIPE 2.0	.073	3.75	8	.021	3.75		9	20.867	32.13	1.872	1.872	3...	H1-1b
29	M41	PL 5/8"x9"	.149	0	6	.095	1	y	6	144.387	182.25	2.373	34.172	2...	H1-1b
30	M42	PL 5/8"x9"	.120	0	6	.068	1	y	6	144.387	182.25	2.373	34.172	2...	H1-1b
31	M43	PL 5/8"x9"	.861	0	3	.486	1	y	9	144.387	182.25	2.373	34.172	2...	H1-1b
32	M44	PL 5/8"x9"	.716	0	12	.193	1	y	12	144.387	182.25	2.373	34.172	1...	H1-1b
33	M51	PL 5/8"x9"	.151	0	4	.096	1	y	4	144.387	182.25	2.373	34.172	2...	H1-1b
34	M52	PL 5/8"x9"	.117	0	4	.067	1	y	4	144.387	182.25	2.373	34.172	2...	H1-1b
35	M53	PL 5/8"x9"	.859	0	7	.485	1	y	13	144.387	182.25	2.373	34.172	2...	H1-1b
36	M54	PL 5/8"x9"	.722	0	10	.199	1	y	10	144.387	182.25	2.373	34.172	1...	H1-1b



**Appendix #3: Connection Check**

Connection Details:

Bolt Dia,  $D_{bolt} := 0.625 \text{ in}$

Quantity,  $N := 6$  (Per Column) (Per Site Visit Pictures)

Area of Bolt,  $A_{bolt} := \frac{\left(\pi \cdot \left(D_{bolt} - \left(\frac{0.9743 \text{ in}}{11}\right)\right)^2\right)}{4} = 0.226 \text{ in}^2$

Plate Size,  $L_p := 10 \text{ in}$   $d_p := 18 \text{ in}$   $t_p := 0.625 \text{ in}$

Area of Plate,  $A_g := L_p \cdot t_p = 6.25 \text{ in}^2$   $A_n := \left(L_p - \left(D_{bolt} + \frac{1}{8} \text{ in}\right)\right) \cdot t_p = 5.781 \text{ in}^2$

Max. Reactions:

Shear,  $S_{bx} := 3.135 \text{ kip}$   $S_{bz} := 0.8 \text{ kip}$  (From Risa 3D)

Uplift,  $T_b := 17 \text{ kip}$  (From Risa 3D)

Torsion,  $M_x := 1.481 \text{ kip} \cdot \text{ft}$

Moment,  $M_y := 0.075 \text{ kip} \cdot \text{ft}$

$M_z := 0.721 \text{ kip} \cdot \text{ft}$

Total Uplift,  $T := \left(\frac{M_x}{7 \text{ in}}\right) + \left(\frac{M_x}{11 \text{ in}}\right) + \left(\frac{M_z}{7 \text{ in}}\right) + \left(\frac{M_y}{11 \text{ in}}\right) + T_b = 22.472 \text{ kip}$

Total Shear,  $S := \sqrt{(S_{bx}^2 + S_{bz}^2)} = 3.235 \text{ kip}$

Tension/Bolt,  $T_{bt} := \frac{T}{6} = 3.745 \text{ kip}$

Shear/Bolt,  $S_{bt} := \frac{S}{6} = 0.539 \text{ kip}$

Capacity of Bolt:

(A36)  $F_{yb} := 36 \text{ ksi}$   $F_{ub} := 58 \text{ ksi}$  (As per Framing Drawings by Jakeweld Corp., Dated 01/25/2017)

Tensile Strength,  $P_{nt} := 0.75 \cdot (0.75 F_{ub}) \cdot A_{bolt} = 7.373 \text{ kip}$

$R_{sr} := \frac{T_{bt}}{P_{nt}} = 0.508$  (Adequate)

Shear Strength,  $P_{ns} := 0.75 \cdot 0.625 \cdot (0.75 \cdot F_{ub}) \cdot A_{bolt} = 4.608 \text{ kip}$

$R_s := \frac{S_{bt}}{P_{ns}} = 0.117$  (Adequate)

Capacity of Plate Member:

$$F_y := 36 \text{ ksi} \quad F_u := 58 \text{ ksi} \quad E_d := 1.5 \text{ in}$$

$$A_{nv} := \left( 10 \text{ in} - \left( D_{bolt} + \frac{1}{8} \text{ in} \right) \right) \cdot t_p = 5.781 \text{ in}^2$$

$$A_{nt} := \left( 1.5 \text{ in} - \left( D_{bolt} + \frac{1}{8} \text{ in} \right) \right) \cdot t_p = 0.469 \text{ in}^2 \quad A_{gv} := 10 \text{ in} \cdot t_p = 6.25 \text{ in}^2$$

$$M_p := T \cdot (d_p - 7 \text{ in}) = 20.6 \text{ kip} \cdot \text{ft}$$

Tensile Yielding,

$$R_n := 0.9 \cdot F_y \cdot A_g = 202.5 \text{ kip}$$

Tensile Rupture,

$$R_{np} := 0.75 \cdot F_u \cdot A_n = 251.484 \text{ kip}$$

Block Shear,

$$R_b := 0.6 \cdot F_u \cdot A_{nv} + 1 \cdot F_u \cdot A_{nt} = 228.375 \text{ kip}$$

$$R_{b1} := 0.6 \cdot F_y \cdot A_{gv} + 1 \cdot F_u \cdot A_{nt} = 162.188 \text{ kip}$$

Bearing Strength at Bolt Hole,

$$R_{nb} := 0.75 \cdot 1.2 \cdot (E_d - (0.5 \cdot D_{bolt})) \cdot t_p \cdot F_u = 38.742 \text{ kip}$$

Flexural Strength,

$$t_i := 0.625 \text{ in} + 0.625 \text{ in} + 0.125 \text{ in}$$

$$Z := d_p \cdot \frac{t_i^2}{4} = 8.508 \text{ in}^3$$

$$F_{max} := \frac{M_p}{Z} = 29.055 \text{ ksi}$$

$$F_c := 0.9 \cdot F_y = 32.4 \text{ ksi}$$



Capacity,  $S_r := \frac{F_{max}}{F_c} = 0.897$  (Adequate)



# Mount Analysis Report

**Property Owner** Naugatuck Partners LLC  
**Structural Type** 51 ft Antenna Mast  
**Site Address** 1247 New Haven Rd  
Naugatuck, CT 06770  
**Latitude** 41.4670611  
**Longitude** -73.019816

**Client** **Verizon Wireless**  
*118 Flanders Road, 3rd Floor*  
*Westborough, MA 01581*  
**Site Type** Macro  
**Site ID** 2451956  
**Site Name** NAUGATUCK\_4\_CT  
**Location Code** 467170  
**Mount Type** 5.8-ft Standoff Mounts  
**Elevation(s)** 50.5 ft

**Prepared by** Nexius Solutions, Inc.  
*2595 North Dallas Parkway Suite 300*  
*Frisco, TX 75034*  
**Job/Task Numbers** VZW467170A01-NX064  
**Rev** 1  
**Email** structurals@nexius.com  
**Phone** 972-581-9888  
**Date** 12/07/2021  
**Result** Adequate

# NEXIUS

**Dear Sir / Madam:**

Nexius Solutions is pleased to submit this analysis to determine the structural integrity of the referred structure. Referenced documents used for this analysis are listed in the section DOCUMENTS & REFERENCES. This analysis has been performed in compliance with

- *2018 Connecticut State Building Code (IBC 2015 w/ State Amendments)*
- *ANSI/TIA-222-G w/ Addendums, Structural Standard for Antenna Supporting Structures and Antennas.*

Detailed design parameters are listed in Table 1. Analysis loading is detailed in Table 2

Based on our analysis we have determined the following result:

**5.83-ft Standoff Mounts**

**Adequate**

Nexius Solutions appreciates the opportunity of providing continued engineering services. Should you have any questions, comments or require additional information, please do not hesitate to contact us.

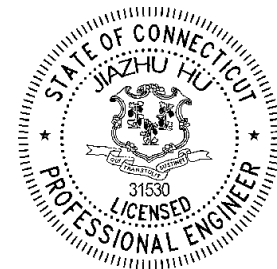
Sincerely,

Prepared by:

Akshay Doddamani, E.I.T

Approved by:

Jiazhu Hu, P.E.  
Engineering Manager  
License #: 31530



Digitally signed by Jiazhu Hu, Ph.D., P.E.  
DN: cn=Jiazhu Hu, Ph.D., P.E., o=Nexius,  
ou=Engineering, email=Jiazhu.Hu@Nexius.com,  
c=US  
Date: 2021.12.07 09:37:23 -05'00'

## DOCUMENTS & REFERENCES

- Construction Drawings (FOR CONSTRUCTION), Location Code: 467170, Verizon Site Name: NAUGATUCK\_4\_CT, by Nexius, dated 12/07/2021.
- Site Visit Pictures & Notes, Location Code: 467170, Verizon Site Name: NAUGATUCK\_4\_CT, by Nexius, dated 08/04/2021.
- RFDS, Location Code: 467170, Site Name: NAUGATUCK\_4\_CT, by Verizon Wireless, dated 07/20/2021.
- Framing Drawings, Job: Verizon Naugatuck 4, by Jakeweld Corp. dated 01/25/2017.
- Mount Analysis Report, Rev.0, Location Code: 467170, Verizon Site Name: NAUGATUCK\_4\_CT, by Nexius, dated 08/12/2021.
- Structural Analysis Report, Rev.1, Location Code: 467170, Verizon Site Name: NAUGATUCK\_4\_CT, by Nexius, dated 12/07/2021.

## DESIGN STANDARDS & PARAMETERS

**TABLE 1 STANDARDS & DESIGN PARAMETERS**

Codes and Standards	
Building Code	2018 Connecticut State Building Code (IBC 2015 w/ State Amendments)
TIA Standard	ANSI/TIA-222-G w/ Addendums
Wind Parameters	
Ultimate Wind Speed	122 mph
Nominal Wind Speed	95 mph
Nominal Wind Speed with Ice	50 mph
Radial Ice Thickness	0.75 in
Exposure Category	B
Structure Class	II
Topographic Category	1
Seismic Design Parameters	
S <sub>s</sub>	0.19
S <sub>1</sub>	0.064

## RESULTS & RECOMMENDATIONS

Based on our analysis, it is determined that the existing antenna mounting structure to be **ADEQUATE** to support the proposed and existing loading.

Additionally, it is required that:

- All structural components and connections should be checked for tightness and good condition prior to installing the proposed equipment.

If the site conditions are different or do not meet requirements, the analysis result would not be valid and Nexius should be notified for re-evaluation.

LOADING

TABLE 2 LOADING

Mount Elev. ft	Ant. Ctr. Elev. ft	Qty	Description	Mount Type	Status
50.5	50.5	2	Samsung MT6407-77A Antenna w/ RRH*	5.83-ft Standoff Mounts	Proposed
		2	Samsung RF4439d-25A		
		2	Samsung RF4440d-13A		
		4	CommScope SBNHH-1D65B**		Existing to remain
		2	<i>CommScope SBNHH-1D65B</i>		Existing to be Removed
		2	<i>Nokia UHBA B13 RRH 4x30</i>		
		2	<i>Nokia UHIC B4 RRH 2x60-4R</i>		
46.0	46.0	2	6C OVP Box	Installed on Antenna Mast	Existing to remain

\*\_ Not to exceed 35.12"x16.06"x5.51" for dimensions and 87.1 lbs for weight.

\*\*\_ Installed on side-by-side (SBS) antenna mounting brackets.

ANALYSIS

RISA-3D, a commercially available finite element method-based software package for structural analysis, was used to create a three-dimensional model of the structure and calculate member stresses for required loading cases. Selected output from the analysis is included in APPENDICES.

## Standard Conditions for Providing Structural Consulting Services on Existing Structures

1. Mounting hardware is analyzed to the best of our ability using all information that is provided or can be obtained during fieldwork (if authorized by client). If the existing conditions are not as we have represented in this analysis, we should be contacted to evaluate the significance of the deviation and revise the assessment accordingly.
2. The structural analysis has been performed assuming that the hardware is in “like new” condition. No allowance was made for excessive corrosion, damaged or missing structural members, loose bolts, misaligned parts, or any reduction in strength due to the age or fatigue of the product.
3. The structural analysis provided is an assessment of the primary load carrying capacity of the hardware. We provided a limited scope of service. In some cases, we cannot verify the capacity of every weld, plate, connection detail, etc. In some cases, structural fabrication details are unknown at the time of our analysis, and the detailed field measurement of some of the required details may not be possible. In instances where we cannot perform connection capacity calculations, it is assumed that the existing manufactured connections develop the full capacity of the primary members being connected.
4. We cannot be held responsible for mounting hardware that is installed improperly or hardware that is loose or has a tendency of working loose over the lifetime of the mounting hardware. Our analysis has been performed assuming fully tightened connections, and proper installation and symmetry of the mounting hardware per manufacturer’s instructions.
5. The structural analysis has been performed using information currently provided by the client and potentially field verified. We have been provided with a mounting arrangement for all telecommunications equipment, including antennas RRH’s, TMA’s, RRU’s, diplexers, surge protection devices, etc. Our analysis has been based upon a particular mounting arrangement. We are not responsible for deviations in the mounting arrangements that may occur over time. If deviations in equipment type or mounting arrangements are proposed, then we should be contacted to revise the recommendations of this structural report.
6. We cannot be held responsible for temporary and unbalanced loads on mounting hardware. Our analysis is based on a particular mounting arrangement or as-build field condition. We are not responsible for the methods and means of how the mounting arrangement is accomplished by the contractor. These methods and means may include rigging of equipment or hardware to lift and locate, temporary hanging of equipment in locations other than the final arrangement, movement and tie off of tower riggers, personnel, and their equipment, etc.
7. Steel grade and strength is unknown and cannot be field tested. We cannot be held responsible for equipment manufactured from inferior steel or bolts. Our analysis assumes that standard structural grade steel has been used by the equipment manufacturer for all assembled parts of the mounting apparatus. Acceptable steels and connection components are specified by the American Institute of Steel Construction. It is assumed all welded connections are performed in the shop under the latest American
8. Welding Society Code. No field welds are permitted or assumed for the existing pre-manufactured equipment. In case no accurate info available, following material assumptions were used:

Channel, Solid Round, Angle, Plate	ASTM A36 (GR 36)
HSS (Rectangular)	ASTM 500 (GR B-46)
HSS (Round)	ASTM 500 (GR B-42)
Pipe	ASTM A53 (GR 35)
Connection Bolts	ASTM A325
U-Bolts	SAE 429 Gr.2



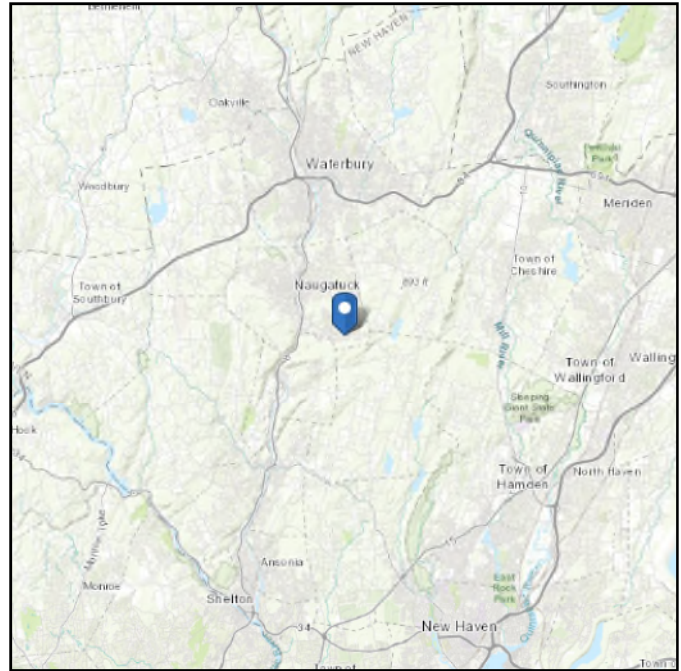
## **Appendix #1: Loading Parameters and Calculations**

# ASCE 7 Hazards Report

**Address:**  
No Address at This  
Location

**Standard:** ASCE/SEI 7-10  
**Risk Category:** II  
**Soil Class:** D - Stiff Soil

**Elevation:** 329.5 ft (NAVD 88)  
**Latitude:** 41.467061  
**Longitude:** -73.019817



## Wind

### Results:

Wind Speed:	122 Vmph
10-year MRI	76 Vmph
25-year MRI	86 Vmph
50-year MRI	92 Vmph
100-year MRI	99 Vmph

Date Accessed: ~~ASCE 7-10~~ **ASCE 7-22** Fig. 26.5-1A and Figs. CC-1–CC-4, and Section 26.5.2, incorporating errata of March 12, 2014

Value provided is 3-second gust wind speeds at 33 ft above ground for Exposure C Category, based on linear interpolation between contours. Wind speeds are interpolated in accordance with the 7-10 Standard. Wind speeds correspond to approximately a 7% probability of exceedance in 50 years (annual exceedance probability = 0.00143, MRI = 700 years).

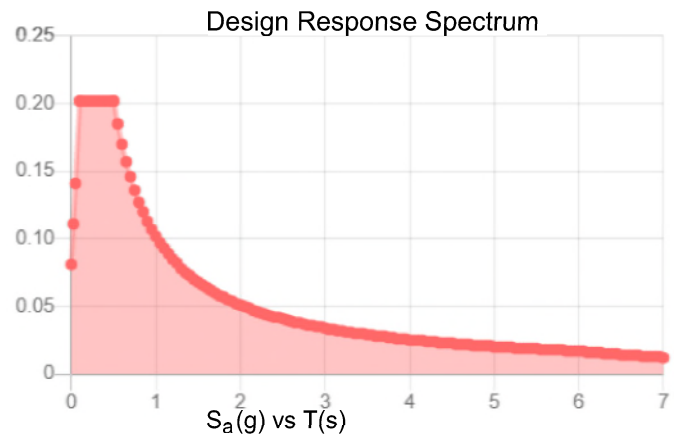
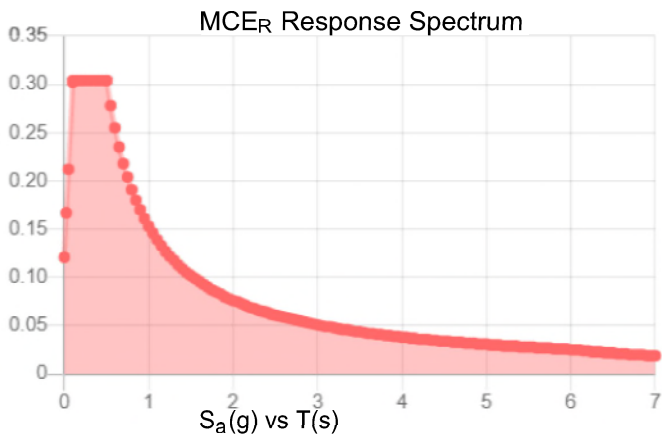
Site is in a hurricane-prone region as defined in ASCE/SEI 7-10 Section 26.2. Glazed openings need not be protected against wind-borne debris.

**Site Soil Class:** D - Stiff Soil

**Results:**

$S_s$ :	0.19	$S_{DS}$ :	0.202
$S_1$ :	0.064	$S_{D1}$ :	0.102
$F_a$ :	1.6	$T_L$ :	6
$F_v$ :	2.4	PGA :	0.099
$S_{MS}$ :	0.304	PGA <sub>M</sub> :	0.158
$S_{M1}$ :	0.153	F <sub>PGA</sub> :	1.6
		$I_e$ :	1

**Seismic Design Category** B



**Data Accessed:**

Mon Aug 09 2021

**Date Source:**

USGS Seismic Design Maps based on ASCE/SEI 7-10, incorporating Supplement 1 and errata of March 31, 2013, and ASCE/SEI 7-10 Table 1.5-2. Additional data for site-specific ground motion procedures in accordance with ASCE/SEI 7-10 Ch. 21 are available from USGS.

## Ice

---

**Results:**

Ice Thickness: 0.75 in.  
Concurrent Temperature: 15 F  
Gust Speed: 50 mph

**Data Source:** Standard ASCE/SEI 7-10, Figs. 10-2 through 10-8

**Date Accessed:** Mon Aug 09 2021

Ice thicknesses on structures in exposed locations at elevations higher than the surrounding terrain and in valleys and gorges may exceed the mapped values.

Values provided are equivalent radial ice thicknesses due to freezing rain with concurrent 3-second gust speeds, for a 50-year mean recurrence interval, and temperatures concurrent with ice thicknesses due to freezing rain. Thicknesses for ice accretions caused by other sources shall be obtained from local meteorological studies. Ice thicknesses in exposed locations at elevations higher than the surrounding terrain and in valleys and gorges may exceed the mapped values.

---

The ASCE 7 Hazard Tool is provided for your convenience, for informational purposes only, and is provided “as is” and without warranties of any kind. The location data included herein has been obtained from information developed, produced, and maintained by third party providers; or has been extrapolated from maps incorporated in the ASCE 7 standard. While ASCE has made every effort to use data obtained from reliable sources or methodologies, ASCE does not make any representations or warranties as to the accuracy, completeness, reliability, currency, or quality of any data provided herein. Any third-party links provided by this Tool should not be construed as an endorsement, affiliation, relationship, or sponsorship of such third-party content by or from ASCE.

ASCE does not intend, nor should anyone interpret, the results provided by this Tool to replace the sound judgment of a competent professional, having knowledge and experience in the appropriate field(s) of practice, nor to substitute for the standard of care required of such professionals in interpreting and applying the contents of this Tool or the ASCE 7 standard.

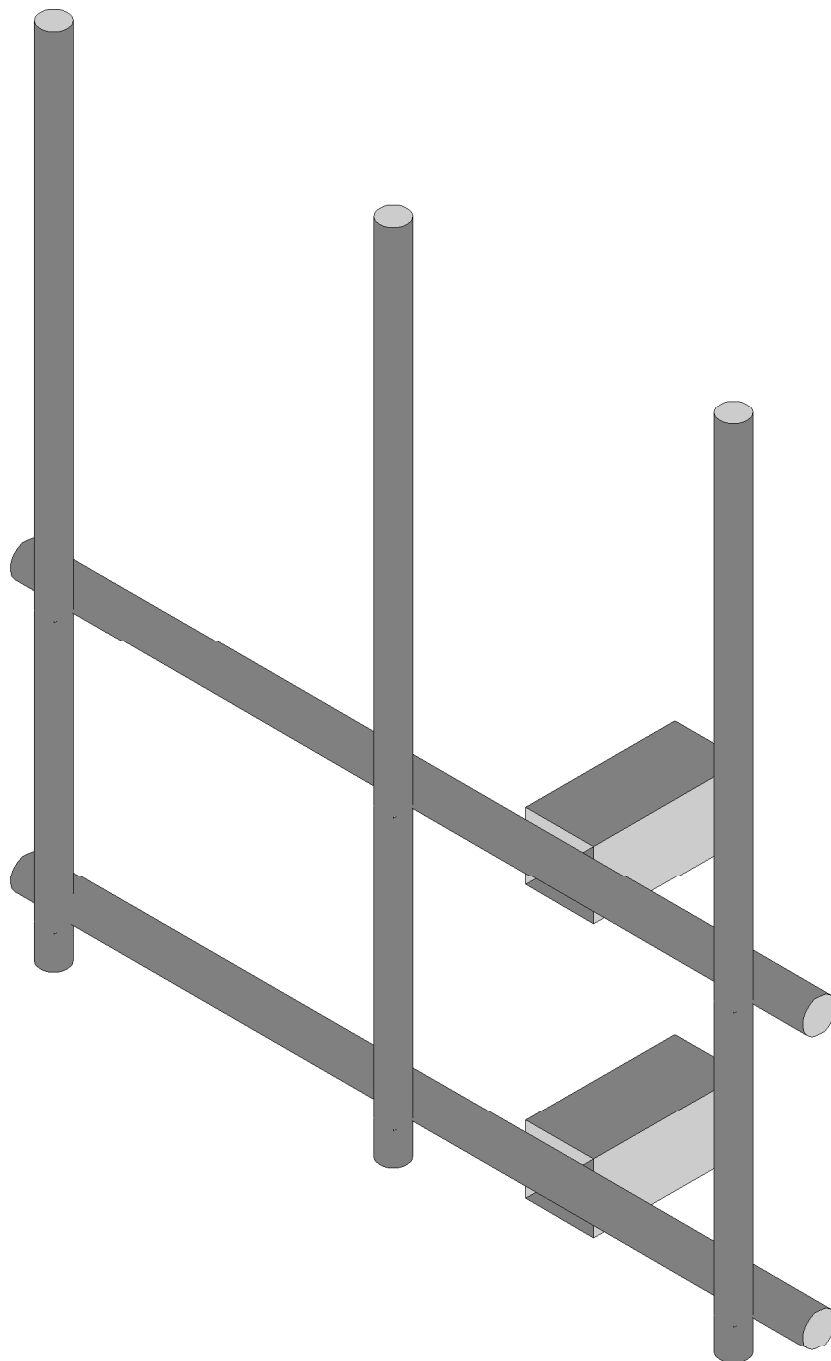
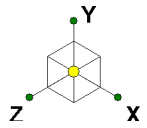
In using this Tool, you expressly assume all risks associated with your use. Under no circumstances shall ASCE or its officers, directors, employees, members, affiliates, or agents be liable to you or any other person for any direct, indirect, special, incidental, or consequential damages arising from or related to your use of, or reliance on, the Tool or any information obtained therein. To the fullest extent permitted by law, you agree to release and hold harmless ASCE from any and all liability of any nature arising out of or resulting from any use of data provided by the ASCE 7 Hazard Tool.



# NEXIUS

Pipe Mount	Antenna	Elevation (ft)	Quantity	Orientation (deg)	Front Exposed (%)	Side Exposed (%)	Front CaAa (ft²)	Side CaAa (ft²)	Front F <sub>A</sub> (kips)	Side F <sub>A</sub> (kips)	Top %	Bottom %
M27	SAMSUNG MT6407-77A ANTENNA w/ RRH	50.5	1	0	100.0%	100.0%	4.700	1.844	0.083	0.033	25.6%	74.4%
M27												
M27												
M27												
M27												
M24	COMMSCOPE SBNHH-1D65B	50.5	2	0	100.0%	100.0%	8.200	5.424	0.290	0.192	6.0%	75.0%
M24												
M24												
M24												
M24												
M24												
M21	SAMSUNG RF4439d-25A	51.5	1	0	100.0%	100.0%	1.865	1.252	0.033	0.022	22.9%	43.7%
M21	SAMSUNG RF4440d-13A	49.5	1	0	100.0%	100.0%	1.865	1.128	0.033	0.020	56.3%	77.1%
M21												
M21												
M21												
M21												

## Appendix #2: RISA-3D Output



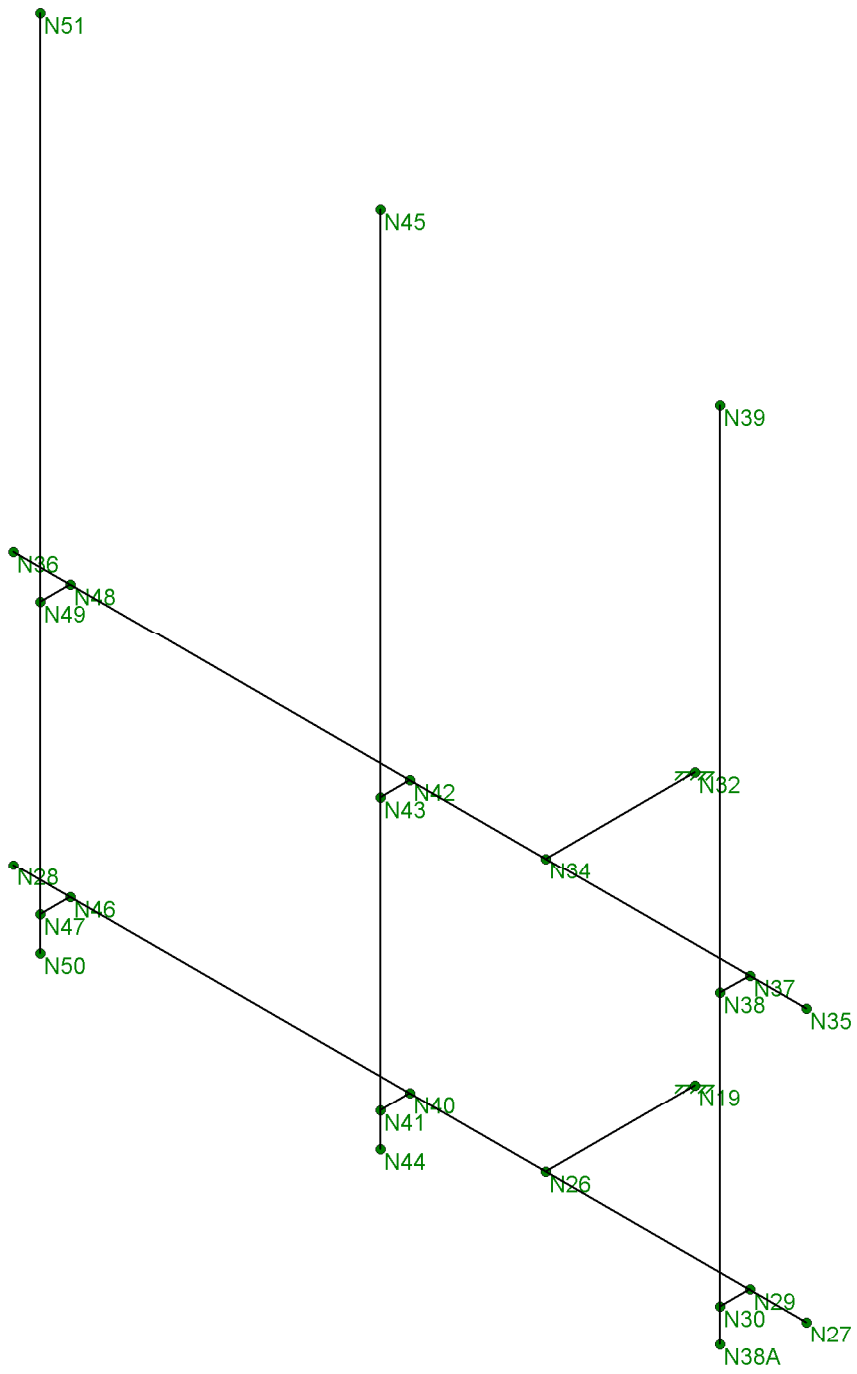
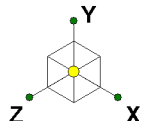
Envelope Only Solution

Nexus
Akshay Doddamani
VZW467170A01

NAUGATUCK 4 CT

Rendered
Aug 9, 2021 at 2:47 PM
467170_Naugatuck_4_CT_1609262...



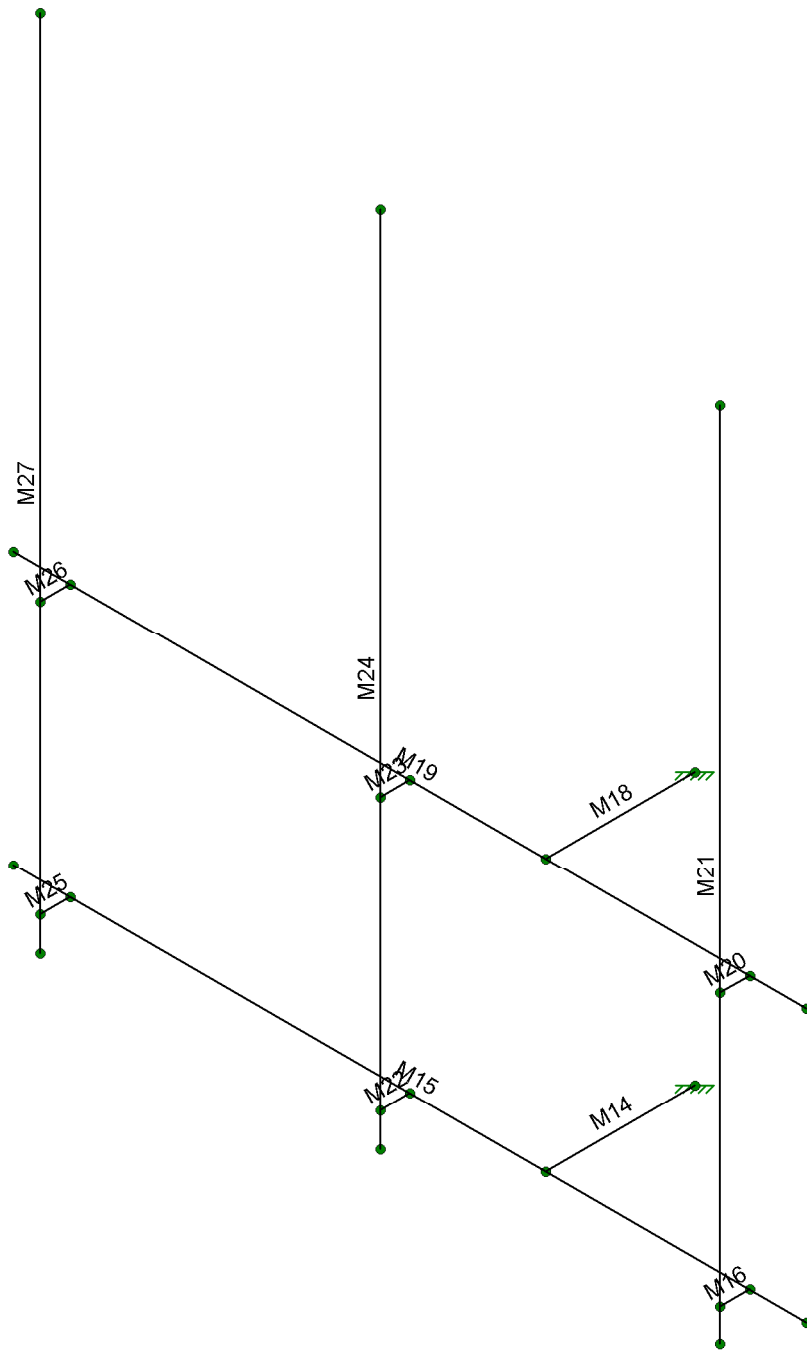
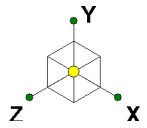


Envelope Only Solution

Nexus
Akshay Doddamani
VZW467170A01

NAUGATUCK 4 CT

Nodes
Aug 9, 2021 at 2:47 PM
467170_Naugatuck_4_CT_1609262...

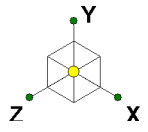


Envelope Only Solution

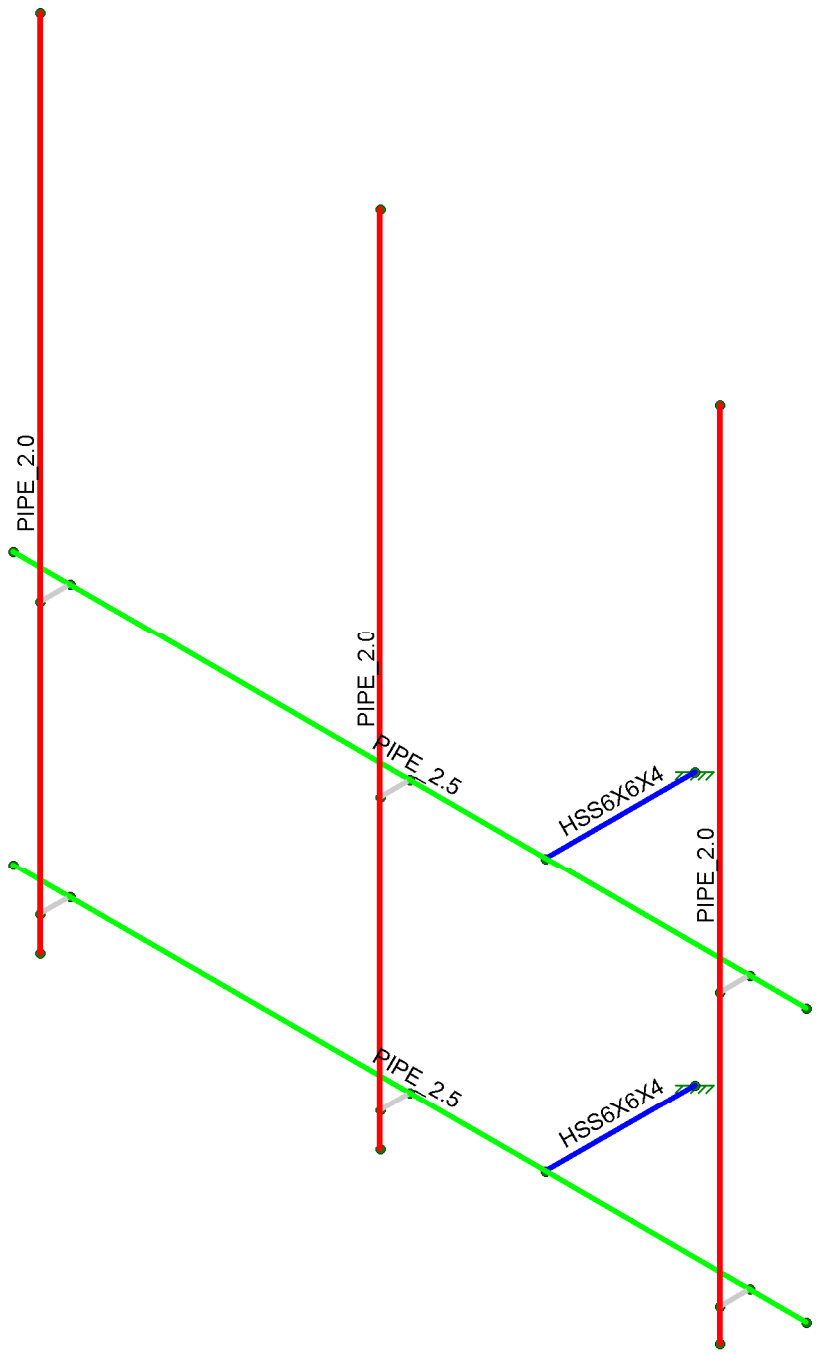
Nexus
Akshay Doddamani
VZW467170A01

NAUGATUCK 4 CT

Member Label
Aug 9, 2021 at 2:47 PM
467170_Naugatuck_4_CT_1609262...

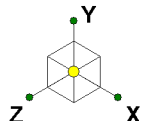


Section Sets	
<span style="color: blue;">■</span>	Mount Standoff, HSS6x6x1/4
<span style="color: green;">■</span>	Mount Horizontals, Pipe 2.5
<span style="color: red;">■</span>	Antenna Pipe, Pipe 2.0
<span style="color: gray;">■</span>	RIGID



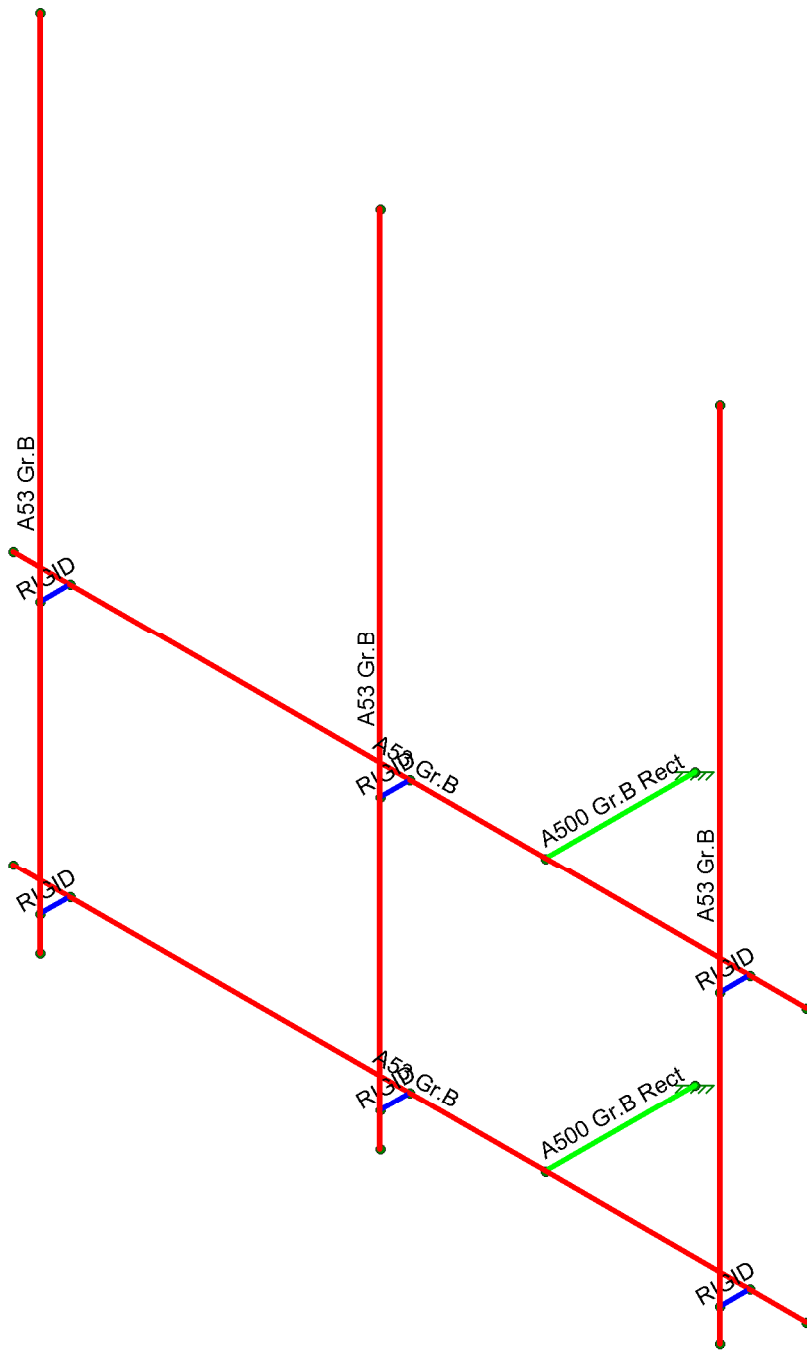
Envelope Only Solution

Nexus	NAUGATUCK 4 CT	Shape
Akshay Doddamani		Aug 9, 2021 at 2:47 PM
VZW467170A01		467170_Naugatuck_4_CT_1609262...



Material Sets

- RIGID
- A500 Gr.B Rect
- A53 Gr.B

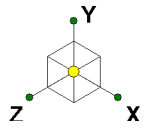


Envelope Only Solution

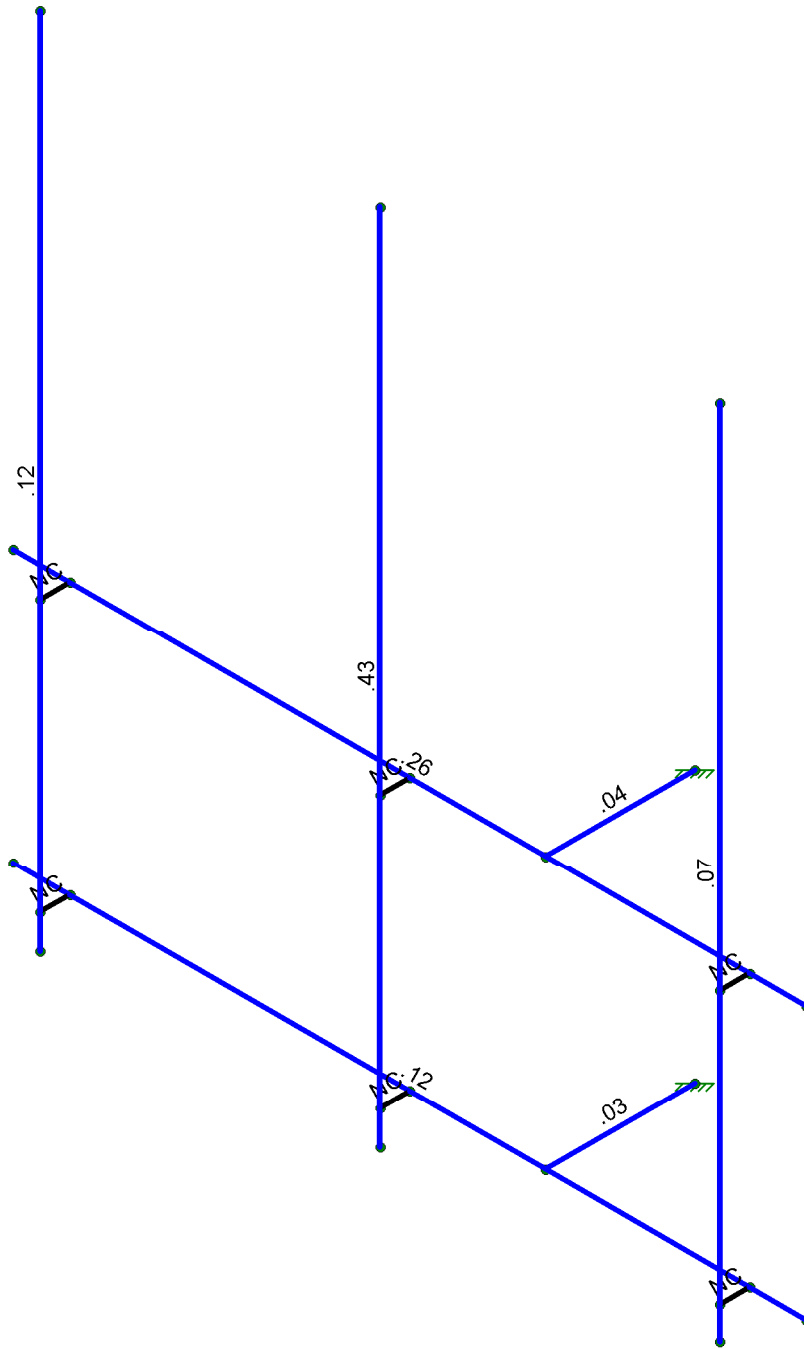
Nexus
Akshay Doddamani
VZW467170A01

NAUGATUCK 4 CT

Material Property
Aug 9, 2021 at 2:48 PM
467170_Naugatuck_4_CT_1609262...

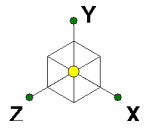


Code Check (Env)	
Black	No Calc
Red	> 1.0
Magenta	.90-1.0
Green	.75-.90
Cyan	.50-.75
Blue	0-.50

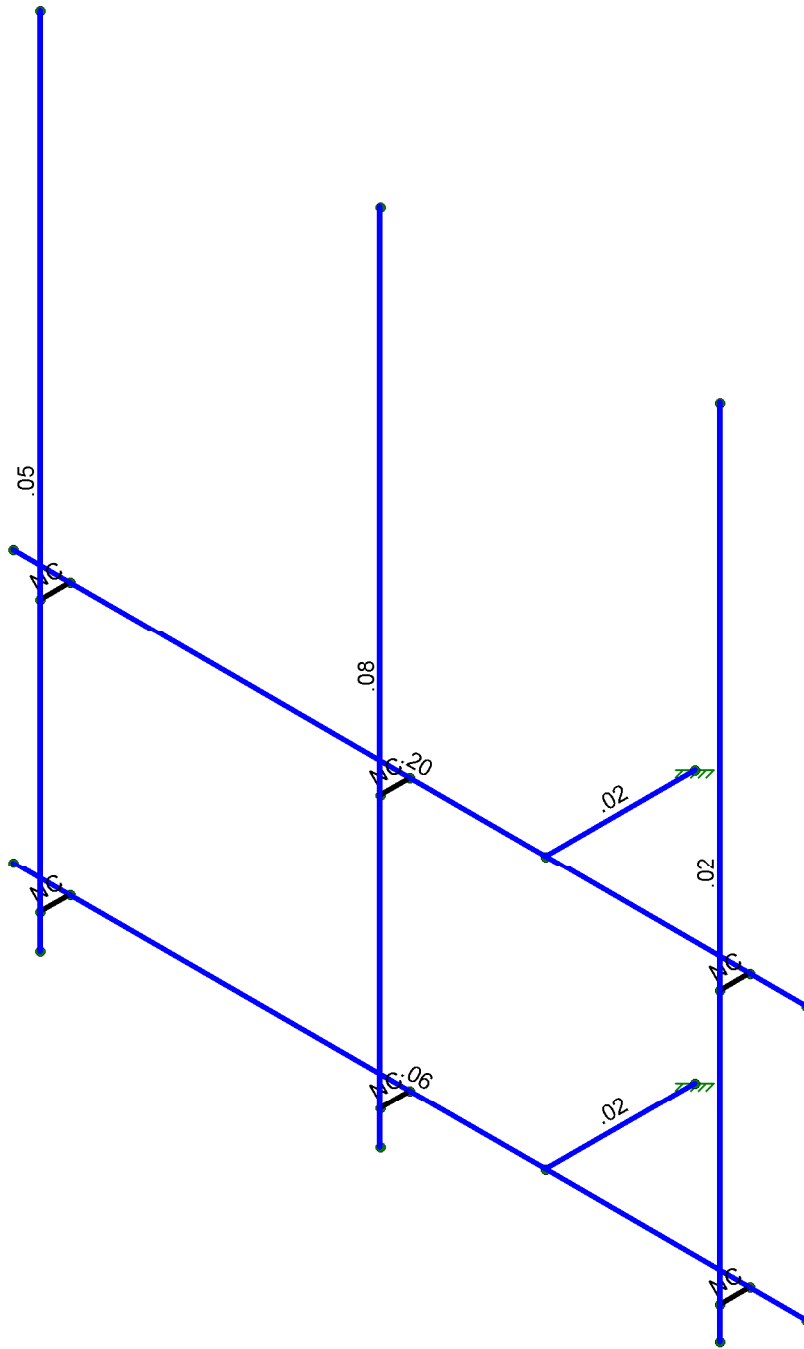


Member Code Checks Displayed (Enveloped)  
Envelope Only Solution

Nexus	NAUGATUCK 4 CT	Ratio_Flexural
Akshay Doddamani		Aug 9, 2021 at 2:48 PM
VZW467170A01		467170_Naugatuck_4_CT_1609262...



Shear Check (Env)	
Black	No Calc
Red	> 1.0
Magenta	.90-1.0
Green	.75-.90
Cyan	.50-.75
Blue	0-.50



Member Shear Checks Displayed (Enveloped)  
Envelope Only Solution

Nexus	NAUGATUCK 4 CT	Ratio_Shear
Akshay Doddamani		Aug 9, 2021 at 2:48 PM
VZW467170A01		467170_Naugatuck_4_CT_1609262...



Company : Nexius  
 Designer : Akshay Doddamani  
 Job Number : VZW467170A01  
 Model Name : NAUGATUCK 4 CT

Aug 9, 2021  
 2:49 PM  
 Checked By: Jiazhu Hu

### Hot Rolled Steel Properties

	Label	E [k...G [k... Nu	Therm (\1E5 F)	Density[k/ft^3]	Yield[ksi]	Ry	Fu[ksi]	Rt
1	A992	290...111... .3	.65	.49	50	1.1	65	1.1
2	A36 Gr...	290...111... .3	.65	.49	36	1.5	58	1.2
3	A572 Gr...	290...111... .3	.65	.49	50	1.1	65	1.1
4	A500 Gr...	290...111... .3	.65	.527	42	1.4	58	1.3
5	A500 Gr...	290...111... .3	.65	.527	46	1.4	58	1.3
6	A53 Gr.B	290...111... .3	.65	.49	35	1.6	60	1.2
7	A1085	290...111... .3	.65	.49	50	1.4	65	1.3
8	A913 Gr...	290...111... .3	.65	.49	65	1.1	80	1.1

### Hot Rolled Steel Design Parameters

	Label	Shape	Length[ft]	Lbyy[ft]	Lbzz[ft]	Lcomp top[ft]	Lcomp bot[ft]	L-torq...	Kyy	Kzz	Cb	Function
1	M14	Mount Stan...	1.099									Lateral
2	M15	Mount Horiz...	5.833									Lateral
3	M18	Mount Stan...	1.099									Lateral
4	M19	Mount Horiz...	5.833									Lateral
5	M21	Antenna Pip...	6									Lateral
6	M24	Antenna Pip...	6									Lateral
7	M27	Antenna Pip...	6									Lateral

### Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Design ...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
1	Mount Standoff, HSS6...	HSS6X6X4	Beam	Tube	A500 Gr.B ...	Typical	5.24	28.6	28.6	45.6
2	Mount Horizontals, Pi...	PIPE 2.5	Beam	Pipe	A53 Gr.B	Typical	1.61	1.45	1.45	2.89
3	Antenna Pipe, Pipe 2.0	PIPE 2.0	Column	Pipe	A53 Gr.B	Typical	1.02	.627	.627	1.25

### Joint Coordinates and Temperatures

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From D...
1	N19	0.	45.5	1.5	0	
2	N26	0.	45.5	2.598958	0	
3	N27	1.916667	45.5	2.598958	0	
4	N28	-3.916667	45.5	2.598958	0	
5	N29	1.5	45.5	2.598958	0	
6	N30	1.5	45.5	2.817708	0	
7	N32	0.	47.5	1.5	0	
8	N34	0.	47.5	2.598958	0	
9	N35	1.916667	47.5	2.598958	0	
10	N36	-3.916667	47.5	2.598958	0	
11	N37	1.5	47.5	2.598958	0	
12	N38	1.5	47.5	2.817708	0	
13	N38A	1.5	45.25	2.817708	0	
14	N39	1.5	51.25	2.817708	0	
15	N40	-1	45.5	2.598958	0	
16	N41	-1	45.5	2.817708	0	
17	N42	-1	47.5	2.598958	0	



Company : Nexius  
 Designer : Akshay Doddamani  
 Job Number : VZW467170A01  
 Model Name : NAUGATUCK 4 CT

Aug 9, 2021  
 2:49 PM  
 Checked By: Jiazhu Hu

**Joint Coordinates and Temperatures (Continued)**

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From D...
18	N43	-1	47.5	2.817708	0	
19	N44	-1	45.25	2.817708	0	
20	N45	-1	51.25	2.817708	0	
21	N46	-3.5	45.5	2.598958	0	
22	N47	-3.5	45.5	2.817708	0	
23	N48	-3.5	47.5	2.598958	0	
24	N49	-3.5	47.5	2.817708	0	
25	N50	-3.5	45.25	2.817708	0	
26	N51	-3.5	51.25	2.817708	0	

**Member Point Loads (BLC 1 : Dead)**

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft.%]
1	M27	Y	-.044	%25.6
2	M24	Y	-.041	%6
3	M21	Y	-.075	%33.3
4	M21	Y	-.07	%66.7
5	M27	Y	-.044	%74.4
6	M24	Y	-.041	%75

**Member Point Loads (BLC 2 : Ice Dead)**

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft.%]
1	M27	Y	-.052	%25.6
2	M24	Y	-.179	%6
3	M21	Y	-.047	%33.3
4	M21	Y	-.045	%66.7
5	M27	Y	-.052	%74.4
6	M24	Y	-.179	%75

**Member Point Loads (BLC 3 : Full Wind Antenna (0 Deg))**

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft.%]
1	M27	Z	-.041	%25.6
2	M24	Z	-.145	%6
3	M21	Z	-.033	%33.3
4	M21	Z	-.033	%66.7
5	M27	Z	-.041	%74.4
6	M24	Z	-.145	%75

**Member Point Loads (BLC 4 : Full Wind Antenna (30 Deg))**

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft.%]
1	M27	Z	-.03	%25.6
2	M24	Z	-.115	%6
3	M21	Z	-.026	%33.3
4	M21	Z	-.026	%66.7
5	M27	Z	-.03	%74.4
6	M24	Z	-.115	%75
7	M27	X	.018	%25.6
8	M24	X	.066	%6
9	M21	X	.015	%33.3
10	M21	X	.015	%66.7
11	M27	X	.018	%74.4
12	M24	X	.066	%75

**Member Point Loads (BLC 5 : Full Wind Antenna (60 Deg))**

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft.%]
--	--------------	-----------	-------------------	----------------





**Member Point Loads (BLC 5 : Full Wind Antenna (60 Deg)) (Continued)**

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
1	M27	Z	-.011	%25.6
2	M24	Z	-.054	%6
3	M21	Z	-.012	%33.3
4	M21	Z	-.012	%66.7
5	M27	Z	-.011	%74.4
6	M24	Z	-.054	%75
7	M27	X	.02	%25.6
8	M24	X	.094	%6
9	M21	X	.021	%33.3
10	M21	X	.02	%66.7
11	M27	X	.02	%74.4
12	M24	X	.094	%75

**Member Point Loads (BLC 6 : Full Wind Antenna (90 Deg))**

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
1	M27	Z	0	%25.6
2	M24	Z	0	%6
3	M21	Z	0	%33.3
4	M21	Z	0	%66.7
5	M27	Z	0	%74.4
6	M24	Z	0	%75
7	M27	X	.016	%25.6
8	M24	X	.096	%6
9	M21	X	.022	%33.3
10	M21	X	.02	%66.7
11	M27	X	.016	%74.4
12	M24	X	.096	%75

**Member Point Loads (BLC 7 : Full Wind Antenna (120 Deg))**

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
1	M27	Z	.011	%25.6
2	M24	Z	.054	%6
3	M21	Z	.012	%33.3
4	M21	Z	.012	%66.7
5	M27	Z	.011	%74.4
6	M24	Z	.054	%75
7	M27	X	.02	%25.6
8	M24	X	.094	%6
9	M21	X	.021	%33.3
10	M21	X	.02	%66.7
11	M27	X	.02	%74.4
12	M24	X	.094	%75

**Member Point Loads (BLC 8 : Full Wind Antenna (150 Deg))**

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
1	M27	Z	.03	%25.6
2	M24	Z	.115	%6
3	M21	Z	.026	%33.3
4	M21	Z	.026	%66.7
5	M27	Z	.03	%74.4
6	M24	Z	.115	%75
7	M27	X	.018	%25.6
8	M24	X	.066	%6
9	M21	X	.015	%33.3
10	M21	X	.015	%66.7



Company : Nexius  
 Designer : Akshay Doddamani  
 Job Number : VZW467170A01  
 Model Name : NAUGATUCK 4 CT

Aug 9, 2021  
 2:49 PM  
 Checked By: Jiazhu Hu

**Member Point Loads (BLC 8 : Full Wind Antenna (150 Deg)) (Continued)**

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
11	M27	X	.018	%74.4
12	M24	X	.066	%75

**Member Point Loads (BLC 15 : Ice Wind Antenna (0 Deg))**

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
1	M27	Z	-.015	%25.6
2	M24	Z	-.052	%6
3	M21	Z	-.013	%33.3
4	M21	Z	-.013	%66.7
5	M27	Z	-.015	%74.4
6	M24	Z	-.052	%75

**Member Point Loads (BLC 16 : Ice Wind Antenna (30 Deg))**

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
1	M27	Z	-.011	%25.6
2	M24	Z	-.042	%6
3	M21	Z	-.011	%33.3
4	M21	Z	-.011	%66.7
5	M27	Z	-.011	%74.4
6	M24	Z	-.042	%75
7	M27	X	.007	%25.6
8	M24	X	.024	%6
9	M21	X	.006	%33.3
10	M21	X	.006	%66.7
11	M27	X	.007	%74.4
12	M24	X	.024	%75

**Member Point Loads (BLC 17 : Ice Wind Antenna (60 Deg))**

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
1	M27	Z	-.005	%25.6
2	M24	Z	-.021	%6
3	M21	Z	-.005	%33.3
4	M21	Z	-.005	%66.7
5	M27	Z	-.005	%74.4
6	M24	Z	-.021	%75
7	M27	X	.008	%25.6
8	M24	X	.036	%6
9	M21	X	.009	%33.3
10	M21	X	.009	%66.7
11	M27	X	.008	%74.4
12	M24	X	.036	%75

**Member Point Loads (BLC 18 : Ice Wind Antenna (90 Deg))**

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
1	M27	Z	0	%25.6
2	M24	Z	0	%6
3	M21	Z	0	%33.3
4	M21	Z	0	%66.7
5	M27	Z	0	%74.4
6	M24	Z	0	%75
7	M27	X	.007	%25.6
8	M24	X	.038	%6
9	M21	X	.01	%33.3
10	M21	X	.009	%66.7
11	M27	X	.007	%74.4



Company : Nexius  
 Designer : Akshay Doddamani  
 Job Number : VZW467170A01  
 Model Name : NAUGATUCK 4 CT

Aug 9, 2021  
 2:49 PM  
 Checked By: Jiazhu Hu

**Member Point Loads (BLC 18 : Ice Wind Antenna (90 Deg)) (Continued)**

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
12	M24	X	.038	%75

**Member Point Loads (BLC 19 : Ice Wind Antenna (120 Deg))**

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
1	M27	Z	.005	%25.6
2	M24	Z	.021	%6
3	M21	Z	.005	%33.3
4	M21	Z	.005	%66.7
5	M27	Z	.005	%74.4
6	M24	Z	.021	%75
7	M27	X	.008	%25.6
8	M24	X	.036	%6
9	M21	X	.009	%33.3
10	M21	X	.009	%66.7
11	M27	X	.008	%74.4
12	M24	X	.036	%75

**Member Point Loads (BLC 20 : Ice Wind Antenna (150 Deg))**

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
1	M27	Z	.011	%25.6
2	M24	Z	.021	%6
3	M21	Z	.005	%33.3
4	M21	Z	.005	%66.7
5	M27	Z	.011	%74.4
6	M24	Z	.021	%75
7	M27	X	.007	%25.6
8	M24	X	.036	%6
9	M21	X	.009	%33.3
10	M21	X	.009	%66.7
11	M27	X	.007	%74.4
12	M24	X	.036	%75

**Member Point Loads (BLC 27 : Seismic Antenna (0 Deg))**

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
1	M27	Z	-.009	%50
2	M24	Z	-.008	%40.5
3	M21	Z	-.008	%33.3
4	M21	Z	-.007	%66.7

**Member Point Loads (BLC 28 : Seismic Antenna (90 Deg))**

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
1	M27	X	.009	%50
2	M24	X	.008	%40.5
3	M21	X	.008	%33.3
4	M21	X	.007	%66.7

**Member Point Loads (BLC 41 : Seismic Vertical Antennas)**

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
1	M27	Y	-.017	%50
2	M24	Y	-.016	%40.5
3	M21	Y	-.015	%33.3
4	M21	Y	-.014	%66.7



**Member Distributed Loads (BLC 2 : Ice Dead)**

	Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft..	End Location[ft...
1	M14	PY	-.019	-.019	0	%100
2	M15	PY	-.009	-.009	0	%100
3	M16	PY	-.003	-.003	0	%100
4	M18	PY	-.019	-.019	0	%100
5	M19	PY	-.009	-.009	0	%100
6	M20	PY	-.003	-.003	0	%100
7	M21	PY	-.008	-.008	0	%100
8	M22	PY	-.003	-.003	0	%100
9	M23	PY	-.003	-.003	0	%100
10	M24	PY	-.008	-.008	0	%100
11	M25	PY	-.003	-.003	0	%100
12	M26	PY	-.003	-.003	0	%100
13	M27	PY	-.008	-.008	0	%100

**Member Distributed Loads (BLC 9 : Full Wind Members (0 Deg))**

	Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft..	End Location[ft...
1	M14	PZ	0	0	0	%100
2	M15	PZ	-.005	-.005	0	%100
3	M18	PZ	0	0	0	%100
4	M19	PZ	-.005	-.005	0	%100
5	M21	PZ	-.004	-.004	0	%22.9
6	M24	PZ	-.004	-.004	0	%6
7	M27	PZ	-.004	-.004	0	%25.6
8	M21	PZ	-.004	-.004	%77.1	%100
9	M24	PZ	-.004	-.004	%75	%100
10	M27	PZ	-.004	-.004	%74.4	%100
11	M14	PX	0	0	0	%100
12	M15	PX	0	0	0	%100
13	M18	PX	0	0	0	%100
14	M19	PX	0	0	0	%100
15	M21	PX	0	0	0	%100
16	M24	PX	0	0	0	%100
17	M27	PX	0	0	0	%100

**Member Distributed Loads (BLC 10 : Full Wind Members (30 Deg))**

	Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft..	End Location[ft...
1	M14	PZ	-.004	-.004	0	%100
2	M15	PZ	-.003	-.003	0	%100
3	M18	PZ	-.004	-.004	0	%100
4	M19	PZ	-.003	-.003	0	%100
5	M21	PZ	-.004	-.004	0	%22.9
6	M24	PZ	-.004	-.004	0	%6
7	M27	PZ	-.004	-.004	0	%25.6
8	M21	PZ	-.004	-.004	%77.1	%100
9	M24	PZ	-.004	-.004	%75	%100
10	M27	PZ	-.004	-.004	%74.4	%100
11	M14	PX	.002	.002	0	%100
12	M15	PX	.002	.002	0	%100
13	M18	PX	.002	.002	0	%100
14	M19	PX	.002	.002	0	%100
15	M21	PX	.002	.002	0	%100
16	M24	PX	.002	.002	0	%100
17	M27	PX	.002	.002	0	%100



Company : Nexius  
 Designer : Akshay Doddamani  
 Job Number : VZW467170A01  
 Model Name : NAUGATUCK 4 CT

Aug 9, 2021  
 2:49 PM  
 Checked By: Jiazhu Hu

**Member Distributed Loads (BLC 11 : Full Wind Members (60 Deg))**

	Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft..	End Location[ft...
1	M14	PZ	-.007	-.007	0	%100
2	M15	PZ	-.001	-.001	0	%100
3	M18	PZ	-.007	-.007	0	%100
4	M19	PZ	-.001	-.001	0	%100
5	M21	PZ	-.002	-.002	0	%22.9
6	M24	PZ	-.002	-.002	0	%6
7	M27	PZ	-.002	-.002	0	%25.6
8	M21	PZ	-.002	-.002	%77.1	%100
9	M24	PZ	-.002	-.002	%75	%100
10	M27	PZ	-.002	-.002	%74.4	%100
11	M14	PX	.011	.011	0	%100
12	M15	PX	.001	.001	0	%100
13	M18	PX	.011	.011	0	%100
14	M19	PX	.001	.001	0	%100
15	M21	PX	.004	.004	0	%100
16	M24	PX	.004	.004	0	%100
17	M27	PX	.004	.004	0	%100

**Member Distributed Loads (BLC 12 : Full Wind Members (90 Deg))**

	Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft..	End Location[ft...
1	M14	PZ	0	0	0	%100
2	M15	PZ	0	0	0	%100
3	M18	PZ	0	0	0	%100
4	M19	PZ	0	0	0	%100
5	M21	PZ	0	0	0	%22.9
6	M24	PZ	0	0	0	%6
7	M27	PZ	0	0	0	%25.6
8	M21	PZ	0	0	%77.1	%100
9	M24	PZ	0	0	%75	%100
10	M27	PZ	0	0	%74.4	%100
11	M14	PX	.018	.018	0	%100
12	M15	PX	0	0	0	%100
13	M18	PX	.018	.018	0	%100
14	M19	PX	0	0	0	%100
15	M21	PX	.004	.004	0	%100
16	M24	PX	.004	.004	0	%100
17	M27	PX	.004	.004	0	%100

**Member Distributed Loads (BLC 13 : Full Wind Members (120 Deg))**

	Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft..	End Location[ft...
1	M14	PZ	.007	.007	0	%100
2	M15	PZ	.001	.001	0	%100
3	M18	PZ	.007	.007	0	%100
4	M19	PZ	.001	.001	0	%100
5	M21	PZ	.002	.002	0	%22.9
6	M24	PZ	.002	.002	0	%6
7	M27	PZ	.002	.002	0	%25.6
8	M21	PZ	.002	.002	%77.1	%100
9	M24	PZ	.002	.002	%75	%100
10	M27	PZ	.002	.002	%74.4	%100
11	M14	PX	.011	.011	0	%100
12	M15	PX	.001	.001	0	%100
13	M18	PX	.011	.011	0	%100
14	M19	PX	.001	.001	0	%100
15	M21	PX	.004	.004	0	%100
16	M24	PX	.004	.004	0	%100



Company : Nexius  
 Designer : Akshay Doddamani  
 Job Number : VZW467170A01  
 Model Name : NAUGATUCK 4 CT

Aug 9, 2021  
 2:49 PM  
 Checked By: Jiazhu Hu

**Member Distributed Loads (BLC 13 : Full Wind Members (120 Deg)) (Continued)**

	Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft..	End Location[ft....
17	M27	PX	.004	.004	0	%100

**Member Distributed Loads (BLC 14 : Full Wind Members (150 Deg))**

	Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft..	End Location[ft....
1	M14	PZ	.004	.004	0	%100
2	M15	PZ	.003	.003	0	%100
3	M18	PZ	.004	.004	0	%100
4	M19	PZ	.003	.003	0	%100
5	M21	PZ	.004	.004	0	%22.9
6	M24	PZ	.004	.004	0	%6
7	M27	PZ	.004	.004	0	%25.6
8	M21	PZ	.004	.004	%77.1	%100
9	M24	PZ	.004	.004	%75	%100
10	M27	PZ	.004	.004	%74.4	%100
11	M14	PX	.002	.002	0	%100
12	M15	PX	.002	.002	0	%100
13	M18	PX	.002	.002	0	%100
14	M19	PX	.002	.002	0	%100
15	M21	PX	.002	.002	0	%100
16	M24	PX	.002	.002	0	%100
17	M27	PX	.002	.002	0	%100

**Member Distributed Loads (BLC 21 : Ice Wind Members (0 Deg))**

	Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft..	End Location[ft....
1	M14	PZ	0	0	0	%100
2	M15	PZ	-.003	-.003	0	%100
3	M16	PZ	0	0	0	%100
4	M18	PZ	0	0	0	%100
5	M19	PZ	-.003	-.003	0	%100
6	M20	PZ	0	0	0	%100
7	M21	PZ	-.003	-.003	0	%22.9
8	M22	PZ	0	0	0	%100
9	M23	PZ	0	0	0	%100
10	M24	PZ	-.003	-.003	0	%6
11	M25	PZ	0	0	0	%100
12	M26	PZ	0	0	0	%100
13	M27	PZ	-.003	-.003	0	%25.6
14	M21	PZ	-.003	-.003	%77.1	%100
15	M24	PZ	-.003	-.003	%75	%100
16	M27	PZ	-.003	-.003	%74.4	%100
17	M14	PX	0	0	0	%100
18	M15	PX	0	0	0	%100
19	M16	PX	0	0	0	%100
20	M18	PX	0	0	0	%100
21	M19	PX	0	0	0	%100
22	M20	PX	0	0	0	%100
23	M21	PX	0	0	0	%100
24	M22	PX	0	0	0	%100
25	M23	PX	0	0	0	%100
26	M24	PX	0	0	0	%100
27	M25	PX	0	0	0	%100
28	M26	PX	0	0	0	%100
29	M27	PX	0	0	0	%100

**Member Distributed Loads (BLC 22 : Ice Wind Members (30 Deg))**

	Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft..	End Location[ft....
--	--------------	-----------	-----------------------------	---------------------------	---------------------	---------------------



Company : Nexius  
 Designer : Akshay Doddamani  
 Job Number : VZW467170A01  
 Model Name : NAUGATUCK 4 CT

Aug 9, 2021  
 2:49 PM  
 Checked By: Jiazhu Hu

**Member Distributed Loads (BLC 22 : Ice Wind Members (30 Deg)) (Continued)**

Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft.F,ksf]	Start Location[ft..	End Location[ft...
1	M14	PZ	-.001	0	%100
2	M15	PZ	-.002	0	%100
3	M16	PZ	0	0	%100
4	M18	PZ	-.001	0	%100
5	M19	PZ	-.002	0	%100
6	M20	PZ	0	0	%100
7	M21	PZ	-.003	0	%22.9
8	M22	PZ	0	0	%100
9	M23	PZ	0	0	%100
10	M24	PZ	-.003	0	%6
11	M25	PZ	0	0	%100
12	M26	PZ	0	0	%100
13	M27	PZ	-.003	0	%25.6
14	M21	PZ	-.003	%77.1	%100
15	M24	PZ	-.003	%75	%100
16	M27	PZ	-.003	%74.4	%100
17	M14	PX	.001	0	%100
18	M15	PX	.001	0	%100
19	M16	PX	0	0	%100
20	M18	PX	.001	0	%100
21	M19	PX	.001	0	%100
22	M20	PX	0	0	%100
23	M21	PX	.001	0	%100
24	M22	PX	0	0	%100
25	M23	PX	0	0	%100
26	M24	PX	.001	0	%100
27	M25	PX	0	0	%100
28	M26	PX	0	0	%100
29	M27	PX	.001	0	%100

**Member Distributed Loads (BLC 23 : Ice Wind Members (60 Deg))**

Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft.F,ksf]	Start Location[ft..	End Location[ft...
1	M14	PZ	-.002	0	%100
2	M15	PZ	-.001	0	%100
3	M16	PZ	0	0	%100
4	M18	PZ	-.002	0	%100
5	M19	PZ	-.001	0	%100
6	M20	PZ	0	0	%100
7	M21	PZ	-.001	0	%22.9
8	M22	PZ	0	0	%100
9	M23	PZ	0	0	%100
10	M24	PZ	-.001	0	%6
11	M25	PZ	0	0	%100
12	M26	PZ	0	0	%100
13	M27	PZ	-.001	0	%25.6
14	M21	PZ	-.001	%77.1	%100
15	M24	PZ	-.001	%75	%100
16	M27	PZ	-.001	%74.4	%100
17	M14	PX	.003	0	%100
18	M15	PX	.002	0	%100
19	M16	PX	0	0	%100
20	M18	PX	.003	0	%100
21	M19	PX	.002	0	%100
22	M20	PX	0	0	%100
23	M21	PX	.003	0	%100
24	M22	PX	0	0	%100



Company : Nexius  
 Designer : Akshay Doddamani  
 Job Number : VZW467170A01  
 Model Name : NAUGATUCK 4 CT

Aug 9, 2021  
 2:49 PM  
 Checked By: Jiazhu Hu

**Member Distributed Loads (BLC 23 : Ice Wind Members (60 Deg)) (Continued)**

	Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft.F,ksf]	Start Location[ft..	End Location[ft...
25	M23	PX	0	0	0	%100
26	M24	PX	.003	.003	0	%100
27	M25	PX	0	0	0	%100
28	M26	PX	0	0	0	%100
29	M27	PX	.003	.003	0	%100

**Member Distributed Loads (BLC 24 : Ice Wind Members (90 Deg))**

	Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft.F,ksf]	Start Location[ft..	End Location[ft...
1	M14	PZ	0	0	0	%100
2	M15	PZ	0	0	0	%100
3	M16	PZ	0	0	0	%100
4	M18	PZ	0	0	0	%100
5	M19	PZ	0	0	0	%100
6	M20	PZ	0	0	0	%100
7	M21	PZ	0	0	0	%22.9
8	M22	PZ	0	0	0	%100
9	M23	PZ	0	0	0	%100
10	M24	PZ	0	0	0	%6
11	M25	PZ	0	0	0	%100
12	M26	PZ	0	0	0	%100
13	M27	PZ	0	0	0	%25.6
14	M21	PZ	0	0	%77.1	%100
15	M24	PZ	0	0	%75	%100
16	M27	PZ	0	0	%74.4	%100
17	M14	PX	.005	.005	0	%100
18	M15	PX	.002	.002	0	%100
19	M16	PX	0	0	0	%100
20	M18	PX	.005	.005	0	%100
21	M19	PX	.002	.002	0	%100
22	M20	PX	0	0	0	%100
23	M21	PX	.003	.003	0	%100
24	M22	PX	0	0	0	%100
25	M23	PX	0	0	0	%100
26	M24	PX	.003	.003	0	%100
27	M25	PX	0	0	0	%100
28	M26	PX	0	0	0	%100
29	M27	PX	.003	.003	0	%100

**Member Distributed Loads (BLC 25 : Ice Wind Members (120 Deg))**

	Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft.F,ksf]	Start Location[ft..	End Location[ft...
1	M14	PZ	.002	.002	0	%100
2	M15	PZ	.001	.001	0	%100
3	M16	PZ	0	0	0	%100
4	M18	PZ	.002	.002	0	%100
5	M19	PZ	.001	.001	0	%100
6	M20	PZ	0	0	0	%100
7	M21	PZ	.001	.001	0	%22.9
8	M22	PZ	0	0	0	%100
9	M23	PZ	0	0	0	%100
10	M24	PZ	.001	.001	0	%6
11	M25	PZ	0	0	0	%100
12	M26	PZ	0	0	0	%100
13	M27	PZ	.001	.001	0	%25.6
14	M21	PZ	.001	.001	%77.1	%100
15	M24	PZ	.001	.001	%75	%100
16	M27	PZ	.001	.001	%74.4	%100





**Member Distributed Loads (BLC 25 : Ice Wind Members (120 Deg)) (Continued)**

	Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft.F,ksf]	Start Location[ft..	End Location[ft....
17	M14	PX	.003	.003	0	%100
18	M15	PX	.002	.002	0	%100
19	M16	PX	0	0	0	%100
20	M18	PX	.003	.003	0	%100
21	M19	PX	.002	.002	0	%100
22	M20	PX	0	0	0	%100
23	M21	PX	.003	.003	0	%100
24	M22	PX	0	0	0	%100
25	M23	PX	0	0	0	%100
26	M24	PX	.003	.003	0	%100
27	M25	PX	0	0	0	%100
28	M26	PX	0	0	0	%100
29	M27	PX	.003	.003	0	%100

**Member Distributed Loads (BLC 26 : Ice Wind Members (150 Deg))**

	Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft.F,ksf]	Start Location[ft..	End Location[ft....
1	M14	PZ	.001	.001	0	%100
2	M15	PZ	.002	.002	0	%100
3	M16	PZ	0	0	0	%100
4	M18	PZ	.001	.001	0	%100
5	M19	PZ	.002	.002	0	%100
6	M20	PZ	0	0	0	%100
7	M21	PZ	.003	.003	0	%22.9
8	M22	PZ	0	0	0	%100
9	M23	PZ	0	0	0	%100
10	M24	PZ	.003	.003	0	%6
11	M25	PZ	0	0	0	%100
12	M26	PZ	0	0	0	%100
13	M27	PZ	.003	.003	0	%25.6
14	M21	PZ	.003	.003	%77.1	%100
15	M24	PZ	.003	.003	%75	%100
16	M27	PZ	.003	.003	%74.4	%100
17	M14	PX	.001	.001	0	%100
18	M15	PX	.001	.001	0	%100
19	M16	PX	0	0	0	%100
20	M18	PX	.001	.001	0	%100
21	M19	PX	.001	.001	0	%100
22	M20	PX	0	0	0	%100
23	M21	PX	.001	.001	0	%100
24	M22	PX	0	0	0	%100
25	M23	PX	0	0	0	%100
26	M24	PX	.001	.001	0	%100
27	M25	PX	0	0	0	%100
28	M26	PX	0	0	0	%100
29	M27	PX	.001	.001	0	%100

**Member Area Loads**

Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
No Data to Print ...						



Company : Nexius  
 Designer : Akshay Doddamani  
 Job Number : VZW467170A01  
 Model Name : NAUGATUCK 4 CT

Aug 9, 2021  
 2:49 PM  
 Checked By: Jiazhu Hu

### Basic Load Cases

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distribut...	Area(Me...	Surface(...
1	Dead	None		-1			6			
2	Ice Dead	None					6	13		
3	Full Wind Antenna (0 Deg)	None					6			
4	Full Wind Antenna (30 Deg)	None					12			
5	Full Wind Antenna (60 Deg)	None					12			
6	Full Wind Antenna (90 Deg)	None					12			
7	Full Wind Antenna (120 Deg)	None					12			
8	Full Wind Antenna (150 Deg)	None					12			
9	Full Wind Members (0 Deg)	None						17		
10	Full Wind Members (30 Deg)	None						17		
11	Full Wind Members (60 Deg)	None						17		
12	Full Wind Members (90 Deg)	None						17		
13	Full Wind Members (120 Deg)	None						17		
14	Full Wind Members (150 Deg)	None						17		
15	Ice Wind Antenna (0 Deg)	None					6			
16	Ice Wind Antenna (30 Deg)	None					12			
17	Ice Wind Antenna (60 Deg)	None					12			
18	Ice Wind Antenna (90 Deg)	None					12			
19	Ice Wind Antenna (120 Deg)	None					12			
20	Ice Wind Antenna (150 Deg)	None					12			
21	Ice Wind Members (0 Deg)	None						29		
22	Ice Wind Members (30 Deg)	None						29		
23	Ice Wind Members (60 Deg)	None						29		
24	Ice Wind Members (90 Deg)	None						29		
25	Ice Wind Members (120 Deg)	None						29		
26	Ice Wind Members (150 Deg)	None						29		
27	Seismic Antenna (0 Deg)	None					4			
28	Seismic Antenna (90 Deg)	None					4			
29	Seismic Members (0 Deg)	None		-0.04	-0.101					
30	Seismic Members (30 Deg)	None	.051	-0.04	-0.087					
31	Seismic Members (60 Deg)	None	.087	-0.04	-0.051					
32	Seismic Members (90 Deg)	None	.101	-0.04						
33	Seismic Members (120 Deg)	None	.087	-0.04	.051					
34	Seismic Members (150 Deg)	None	.051	-0.04	.087					
35	Seismic Members (180 Deg)	None		-0.04	.101					
36	Seismic Members (210 Deg)	None	-0.051	-0.04	.087					
37	Seismic Members (240 Deg)	None	-0.087	-0.04	.051					
38	Seismic Members (270 Deg)	None	-0.101	-0.04						
39	Seismic Members (300 Deg)	None	-0.087	-0.04	-0.051					
40	Seismic Members (330 Deg)	None	-0.051	-0.04	-0.087					
41	Seismic Vertical Antennas	None					4			
42	Man 1 (500 lbs)	None				1				
43	Man 2 (500 lbs)	None				1				
44	Man 3 (500 lbs)	None				1				
45	Man 4 (250 lbs)	None				1				
46	Man 5 (250 lbs)	None				1				
47	Man 6 (250 lbs)	None				1				

### Load Combinations

	Description	S...	PDe...	SR...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...
1	1.4D	Yes	Y			1	1.4													
2	1.2D + 1.6W 0°	Yes	Y			1	1.2	3	1.6	9	1.6									
3	1.2D + 1.6W 30°	Yes	Y			1	1.2	4	1.6	10	1.6									
4	1.2D + 1.6W 60°	Yes	Y			1	1.2	5	1.6	11	1.6									
5	1.2D + 1.6W 90°	Yes	Y			1	1.2	6	1.6	12	1.6									



**Load Combinations (Continued)**

Description	S...	PDe...	SR...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...
63	1.2D + 1.5Lv 1		30°	Y	1	1.2	45	1.5											
64	1.2D + 1.5Lv 1		60°	Y	1	1.2	45	1.5											
65	1.2D + 1.5Lv 1		90°	Y	1	1.2	45	1.5											
66	1.2D + 1.5Lv 1		120°	Y	1	1.2	45	1.5											
67	1.2D + 1.5Lv 1		150°	Y	1	1.2	45	1.5											
68	1.2D + 1.5Lv 1		180°	Y	1	1.2	45	1.5											
69	1.2D + 1.5Lv 1		210°	Y	1	1.2	45	1.5											
70	1.2D + 1.5Lv 1		240°	Y	1	1.2	45	1.5											
71	1.2D + 1.5Lv 1		270°	Y	1	1.2	45	1.5											
72	1.2D + 1.5Lv 1		300°	Y	1	1.2	45	1.5											
73	1.2D + 1.5Lv 1		330°	Y	1	1.2	45	1.5											
74	1.2D + 1.5Lv 2		0°	Y	1	1.2	46	1.5											
75	1.2D + 1.5Lv 2		30°	Y	1	1.2	46	1.5											
76	1.2D + 1.5Lv 2		60°	Y	1	1.2	46	1.5											
77	1.2D + 1.5Lv 2		90°	Y	1	1.2	46	1.5											
78	1.2D + 1.5Lv 2		120°	Y	1	1.2	46	1.5											
79	1.2D + 1.5Lv 2		150°	Y	1	1.2	46	1.5											
80	1.2D + 1.5Lv 2		180°	Y	1	1.2	46	1.5											
81	1.2D + 1.5Lv 2		210°	Y	1	1.2	46	1.5											
82	1.2D + 1.5Lv 2		240°	Y	1	1.2	46	1.5											
83	1.2D + 1.5Lv 2		270°	Y	1	1.2	46	1.5											
84	1.2D + 1.5Lv 2		300°	Y	1	1.2	46	1.5											
85	1.2D + 1.5Lv 2		330°	Y	1	1.2	46	1.5											
86	1.2D + 1.5Lv 3		0°	Y	1	1.2	47	1.5											
87	1.2D + 1.5Lv 3		30°	Y	1	1.2	47	1.5											
88	1.2D + 1.5Lv 3		60°	Y	1	1.2	47	1.5											
89	1.2D + 1.5Lv 3		90°	Y	1	1.2	47	1.5											
90	1.2D + 1.5Lv 3		120°	Y	1	1.2	47	1.5											
91	1.2D + 1.5Lv 3		150°	Y	1	1.2	47	1.5											
92	1.2D + 1.5Lv 3		180°	Y	1	1.2	47	1.5											
93	1.2D + 1.5Lv 3		210°	Y	1	1.2	47	1.5											
94	1.2D + 1.5Lv 3		240°	Y	1	1.2	47	1.5											
95	1.2D + 1.5Lv 3		270°	Y	1	1.2	47	1.5											
96	1.2D + 1.5Lv 3		300°	Y	1	1.2	47	1.5											
97	1.2D + 1.5Lv 3		330°	Y	1	1.2	47	1.5											
98	1.2D + 1.0EV + 1.0 EH	Yes	0°	Y	1	1.2	27	1	28		29	1	41	1					
99	1.2D + 1.0EV + 1.0 EH	Yes	30°	Y	1	1.2	27	.866	28	.5	30	1	41	1					
100	1.2D + 1.0EV + 1.0 EH	Yes	60°	Y	1	1.2	27	.5	28	.866	31	1	41	1					
101	1.2D + 1.0EV + 1.0 EH	Yes	90°	Y	1	1.2	27		28	1	32	1	41	1					
102	1.2D + 1.0EV + 1.0 EH	Yes	120°	Y	1	1.2	27	-.5	28	.866	33	1	41	1					
103	1.2D + 1.0EV + 1.0 EH	Yes	150°	Y	1	1.2	27	-.8...	28	.5	34	1	41	1					
104	1.2D + 1.0EV + 1.0 EH	Yes	180°	Y	1	1.2	27	-1	28		35	1	41	1					
105	1.2D + 1.0EV + 1.0 EH	Yes	210°	Y	1	1.2	27	-.8...	28	-.5	36	1	41	1					
106	1.2D + 1.0EV + 1.0 EH	Yes	240°	Y	1	1.2	27	-.5	28	-.8...	37	1	41	1					
107	1.2D + 1.0EV + 1.0 EH	Yes	270°	Y	1	1.2	27		28	-1	38	1	41	1					
108	1.2D + 1.0EV + 1.0 EH	Yes	300°	Y	1	1.2	27	.5	28	-.8...	39	1	41	1					
109	1.2D + 1.0EV + 1.0 EH	Yes	330°	Y	1	1.2	27	.866	28	-.5	40	1	41	1					

**Envelope Joint Reactions**

Joint	X [k]	LC	Y [k]	LC	Z [k]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC		
1	N32	m...	.86	10	.708	15	.858	2	.012	13	1.241	13	.123	7
2		m...	-.59	4	.039	9	-.937	8	-.785	19	-.959	7	-.247	24
3	N19	m...	.006	4	.696	21	.096	9	.031	3	.097	3	.159	4
4		m...	-.36	22	.035	3	-.017	3	-.78	21	-.39	21	-.261	22
5	Totals:	m...	.604	11	1.285	24	.843	2						



Company : Nexius  
 Designer : Akshay Doddamani  
 Job Number : VZW467170A01  
 Model Name : NAUGATUCK 4 CT

Aug 9, 2021  
 2:49 PM  
 Checked By: Jiazhu Hu

**Envelope Joint Reactions (Continued)**

Joint	X [k]	LC	Y [k]	LC	Z [k]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC
6	m.. -604	5	.58	6	-843	8						

**Envelope AISC 15th(360-16): LRFD Steel Code Checks**

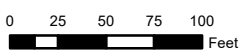
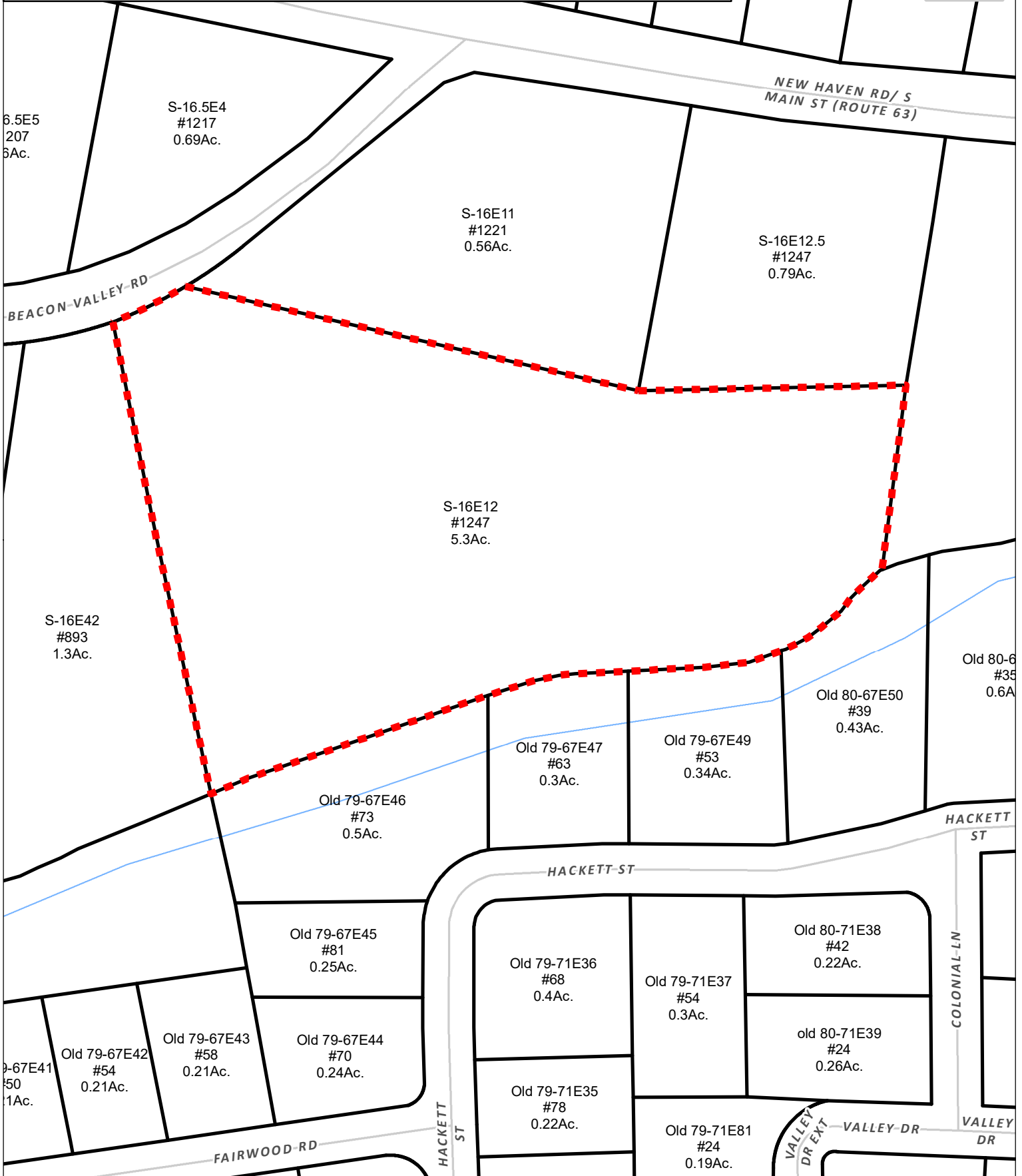
Member	Shape	Code C...	Loc[ft]	LC	Shear ...	Loc[ft]	Dir	LC	phi*Pnc [k]	phi*Pnt [k]	phi*Mn y...	phi*Mn z...	Cb	Eqn	
1	M14	HSS6X6X4	.030	0	21	.019	0	y	22	216.472	216.936	38.64	38.64	1...	H1-1b
2	M15	PIPE 2.5	.119	3.889	22	.057	2.917		8	38.388	50.715	3.596	3.596	2...	H1-1b
3	M18	HSS6X6X4	.043	0	7	.020	0	z	12	216.472	216.936	38.64	38.64	1...	H1-1b
4	M19	PIPE 2.5	.261	3.889	2	.200	3.889		2	38.388	50.715	3.596	3.596	2...	H1-1b
5	M21	PIPE 2.0	.073	3.75	2	.022	3.75		8	20.867	32.13	1.872	1.872	3...	H1-1b
6	M24	PIPE 2.0	.434	3.75	8	.084	3.75		8	20.867	32.13	1.872	1.872	4...	H1-1b
7	M27	PIPE 2.0	.116	3.75	22	.049	3.75		13	20.867	32.13	1.872	1.872	3...	H1-1b

# **ATTACHMENT 5**

# Borough of Naugatuck, Connecticut - Assessment Parcel Map

Parcel Account Number: 066-5630

Address: 1247 NEW HAVEN RD



Disclaimer: This map is for informational purposes only.  
All information is subject to verification by any user.  
The Borough of Naugatuck and its mapping contractors  
assume no legal responsibility for the information contained herein.

Map Produced March 2019



# Town of Naugatuck, CT

## Property Listing Report

Map Block Lot

S-16E12

Building # 1

PID 100622

Account

066-5630

### Property Information

Property Location	1247 NEW HAVEN RD
Owner	NAUGATUCK PARTNERS LLC
Co-Owner	
Mailing Address	109 NICHOLS DRIVE WATERBURY CT 06708
Land Use	4000 INDUSTRIAL
Land Class	I
Zoning Code	RA1
Census Tract	

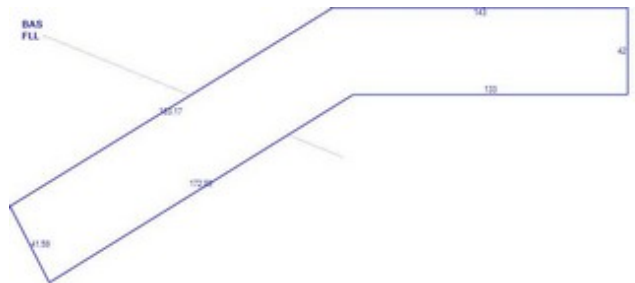
Neighborhood	A2
Acreage	5.3
Utilities	
Lot Setting/Desc	
Book / Page	1085/688
Additional Info	

### Photo



066-5630 03/21/2012

### Sketch



### Primary Construction Details

Year Built	1973
Building Desc.	INDUSTRIAL
Building Style	Warehouse
Building Grade	C
Stories	1
Occupancy	1.00
Exterior Walls	Pre-cast Concr
Exterior Walls 2	NA
Roof Style	Flat
Roof Cover	T+G/Rubber
Interior Walls	Drywall
Interior Walls 2	Minim/Masonry
Interior Floors 1	Concrete
Interior Floors 2	Concr Abv Grad

Heating Fuel	None
Heating Type	None
AC Type	None
Bedrooms	0
Full Bathrooms	0
Half Bathrooms	0
Extra Fixtures	0
Total Rooms	0
Bath Style	NA
Kitchen Style	NA
Fin Bsmt Area	
Fin Bsmt Quality	
Bsmt Gar	0
Fireplaces	0

(\*Industrial / Commercial Details)

Building Use	Ind/Comm
Building Condition	P
Sprinkler %	NA
Heat / AC	NONE
Frame Type	STEEL
Baths / Plumbing	AVERAGE
Ceiling / Wall	SUS-CEIL & WL
Rooms / Prtns	AVERAGE
Wall Height	12.00
First Floor Use	NA
Foundation	NA











# **ATTACHMENT 6**



NAUGATUCK 4  
Certificate of Mailing — Firm

Name and Address of Sender  Kenneth C. Baldwin, Esq. Robinson & Cole LLP 280 Trumbull Street Hartford, CT 06103	TOTAL NO. of Pieces Listed by Sender  3	TOTAL NO. of Pieces Received at Post Office™  3	Affix Stamp Here <i>Postmark with Date of Receipt.</i>  neopost <sup>®</sup> 12/09/2021 <b>US POSTAGE \$002.99<sup>0</sup></b>   ZIP 06103 041L12203937
	Postmaster, per (name of receiving employee)  		

USPS® Tracking Number Firm-specific Identifier	Address (Name, Street, City, State, and ZIP Code™)	Postage	Fee	Special Handling	Parcel Airlift
1.	N. Warren "Pete" Hess, III, Mayor Town of Naugatuck 229 Church Street Naugatuck, CT 06770				
2.	Lori Rotella, Town Planner Town of Naugatuck 229 Church Street Naugatuck, CT 06770				
3.	Naugatuck Partners LLC 109 Nichols Drive Waterbury, CT 06708				
4.					
5.					
6.					