



Tower Engineering Solutions

Phone (972) 483-0607, Fax (972) 975-9615
1320 Greenway Drive, Suite 600, Irving, Texas 75038

Structural Analysis Report

Existing 160 ft Nudd Corporation Monopole

Customer Name: SBA Communications Corp

Customer Site Number: CT02049-S

Customer Site Name: Beacon Falls

Carrier Name: T-Mobile (App#: 200173, V1)

Carrier Site ID / Name: CT11299D / CTBeacon Falls/Rt8

Site Location: 60 Rice Lane

Beacon Falls, Connecticut

New Haven County

Latitude: 41.455689

Longitude: -73.039866



Analysis Result:

Max Structural Usage: 89.3% [Pass]

Max Foundation Usage: 67.0% [Pass]

Additional Usage Caused by New Mount/Mount Modification: N/A

Report Prepared By: Younus Alkarawi



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Additional Usage Caused by New Mount/Mount Modification: N/A

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Introduction

The purpose of this report is to summarize the analysis results on the 160 ft Nudd Corporation Monopole to support the proposed antennas and transmission lines in addition to those currently installed. Any modification listed under Sources of Information was assumed completed and was included in this analysis.

Sources of Information

Tower Drawings	Nudd Project # 7342, dated 01/14/2000
Foundation Drawing	Nudd Project # 7342, dated 01/14/2000
Geotechnical Report	SEA Consultants Ref # 99339.02-A, dated 08/02/1999
Modification Drawings	O2 Wireless Solutions Job # 2230-022, dated 05/23/2002; FDH Project # 09-04232E S2, dated 01/03/2009; FDH Project # 12-04772E S3, dated 10/15/2013; FTES Job # 20939 rev.3, dated 09/28/2016; TES Job# 80199, dated 04/30/2020
Mount Analysis	T-Mobile MA by TES # 131523, Dated 07/18/2022

Analysis Criteria

The comprehensive analysis was performed in accordance with the requirements and stipulations of the TIA-222-H. In accordance with this standard, the structure was analyzed using **TESPoles**, a proprietary analysis software. The program considers the structure as an elastic 3-D model with second-order effects and temperature effects incorporated in the analysis. The analysis was performed using multiple wind directions.

Wind Speed Used in the Analysis:	120.0 mph (3-Sec. Gust) (Ultimate wind speed)
Wind Speed with Ice:	50 mph (3-Sec. Gust) with 1" radial ice concurrent
Service Load Wind Speed:	60 mph + 0" Radial ice
Standard/Codes:	TIA-222-H / 2021 IBC / 2022 Connecticut State Building Code
Exposure Category:	B
Risk Category:	II
Topographic Category:	1
Crest Height:	0 ft
Seismic Parameters:	$S_5 = 0.199$, $S_1 = 0.054$

This structural analysis is based upon the tower being classified as a Risk Category II; however, if a different classification is required subsequent to the date hereof, the tower classification will be changed to meet such requirement and a new structural analysis will be run.

Existing Antennas, Mounts and Transmission Lines

The table below summarizes the antennas, mounts and transmission lines that were considered in the analysis as existing on the tower.

Items	Elevation (ft)	Qty.	Antenna Descriptions	Mount Type & Qty.	Transmission Lines	Owner
1	165.0	1	Andrew - DB222 - Whip	Low Profile Platform	(1) 7/8"	BFFD
2	162.0	6	Andrew DB846F65ZAXY - Panel		(2) 1 5/8" Hybrid (17) 1 5/8"	Verizon
3		6	Andrew JAHH-65B-R3B - Panel			
4		3	Samsung VZS01 - Panel			
5		1	Commscope CBC78T-DS-43-2X - Diplexer			
6		3	Samsung B2/B66A RRH-BR049 - RRU			
7		3	Samsung Telecommunications B5/B13 RRH-BR04C - RRU			
8		1	Commscope FE-16148-OVP-B12 - OVP			
9	152.0	3	JMA Wireless - MX08FRO665-21 - Panel	Platform w/ Handrail (Commscope MC-PK8-DSH)	(1) 1.75" Hybrid	Dish Wireless
10		3	Fujitsu - TA08025-B605 - RRU			
11		3	Fujitsu - TA08025-B604 - RRU			
12		1	Raycap - RDIDC-9181-PF-48 - OVP			
-	142.0	3	Ericsson KRY 112 144/1 TMA	Platform w/ HR & Bracing	(10) 1 5/8" (2) 1 5/8" Fiber (2) 1-1/4" Fiber	T-Mobile
-		3	Ericsson AIR 21 B2A/B4P - Panel			
-		4	Ericsson Air 32 KR0901146-1 B66A B2A - Panel			
-		3	RFS APXVAARR24_43-U-NA20 - Panel			
-		1	RFS APXVAARR18_43-U-NA20 - Panel			
-		4	Ericsson Radio 4449 B71+B12 RRUs			
-		1	Ericsson Radio 4415 B66A RRUs			
20	134.75	3	Ericsson AIR6419 B77G Panel	T-Frames (3) SitePro 1 P/N RMV12-NP W/ (3) 2-1/2" (2.88" O.D.) Pipe Masts	(6) 1 5/8" Coax (6) 1 1/4" coax (7) 0.92" DC Power (2) 3/8" Fiber (1) 1/2" Fiber	AT&T
21	133.0	3	Kathrein 800-10965 Panel			
22		2	Cci DMP65R-BU6EA-K Panel			
23		1	Cci DMP65R-BU8EA-K Panel			
24		6	Powerwave LGP21401 TMA			
25		3	Ericsson RRUS-32 RRU			
26		3	Ericsson B2/B66A 8843 RRU			
27		3	Ericsson B5/B12 4449 RRU			
28		3	Ericsson RRUS 4478 B14 RRU			
29		2	Raycap DC6-48-60-18-8F OVP			
30		1	Raycap DC9-48-60-24-8C-EV OVP			
31		131.75	3			
32	115.0	1	DB222 - Whip	(1) 3 ft. Standoff	(1) 7/8"	BFFD
33	40.0	1	GPS	Standoff	(1) 1/2"	Sprint

** (4) 3/4" DC inside 3" Conduit.

Proposed Carrier’s Final Configuration of Antennas, Mounts and Transmission Lines

Information pertaining to the proposed carrier’s final configuration of antennas and transmission lines was provided by SBA Communications Corp. The proposed antennas and lines are listed below.

Items	Elevation (ft)	Qty.	Antenna Descriptions	Mount Type & Qty.	Transmission Lines	Owner
13	142.0	4	Ericsson Air 6419 B41 - Panel	Platform w/ HR & Bracing	(7) 1 5/8" (2) 1-1/4" Fiber (2) 1.9" Fiber (2) 1 5/8" Fiber	T-Mobile
14		4	Ericsson Air 32 KRD901146-1_B66A_B2A- Panel			
15		3	RFS APXVAARR24_43-U-NA20 - Panel			
16		1	RFS APXVAARR18_43-U-NA20 - Panel			
17		3	Ericsson KRY 112 144/1 TMA			
18		4	Ericsson 4460 B25 + B66 RRU			
19		4	Ericsson 4449 B71 + B85 RRU			

See the attached coax layout for the line placement considered in the analysis.

Analysis Results

The results of the structural analysis, performed for the wind and ice loading and antenna equipment as defined above, are summarized as the following:

	Pole shafts	Anchor Bolts	Base Plate	Flange connection
Max. Usage:	89.3%	55.6%	79.4%	88.9%
Pass/Fail	Pass	Pass	Pass	Pass

Foundations

	Moment (Kip-Ft)	Shear (Kips)	Axial (Kips)
Analysis Reactions	4032.5	33.7	78.5

The foundation has been investigated using the supplied documents and soils report and was found adequate. Therefore, no modification to the foundation will be required.

Service Load Condition (Rigidity):

Operational characteristics of the tower are found to be within the limits prescribed by TIA-222 for the installed antennas. The maximum twist/sway at the elevation of the proposed equipment is 1.4020 degrees under the operational wind speed as specified in the Analysis Criteria.

Conclusions

Based on the analysis results, the existing structure and its foundation were found to be adequate to safely support the existing and proposed equipment and meet the minimum requirements per the TIA-222 Standard under the design basic wind speed as specified in the Analysis Criteria.

Standard Conditions

1. This analysis was performed based on the information supplied to **(TES) Tower Engineering Solutions, LLC**. Verification of the information provided was not included in the Scope of Work for **TES**. The accuracy of the analysis is dependent on the accuracy of the information provided.
2. The structural analysis was performance based upon the evidence available at the time of this report. All information provided by the client is considered to be accurate.
3. The analyses will be performed based on the codes as specified by the client or based on the best knowledge of the engineering staff of **TES**. In the absence of information to the contrary, all work will be performed in accordance with the latest relevant revision of ANSI/TIA-222. If wind speed and/or ice loads are different from the minimum values recommended by the ANSI/TIA-222 standard or other codes, **TES** should be notified in writing and the applicable minimum values provided by the client.
4. The configuration of the existing mounts, antennas, coax and other appurtenances were supplied by the customer for the current structural analysis. **TES** has not visited the tower site to verify the adequacy of the information provided. If there is any discrepancy found in the report regarding the existing conditions, **TES** should be notified immediately to evaluate the effect of the discrepancy on the analysis results.
5. The client will assume responsibility for rework associated with the differences in initially provided information, including tower and foundation information, existing and/or proposed equipment and transmission lines.
6. If a feasibility analysis was performed, final acceptance of changed conditions shall be based upon a rigorous structural analysis.

Usage Diagram - Max Ratio 77.82% at 96.0ft

Structure: CT02049-S-SBA
Site Name: Beacon Falls
Height: 160.00 (ft)
Base Elev: 0.000 (ft)

Code: EIA/TIA-222-H
Exposure: B
Gh: 1.1

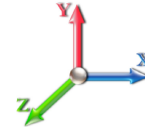
11/17/2022



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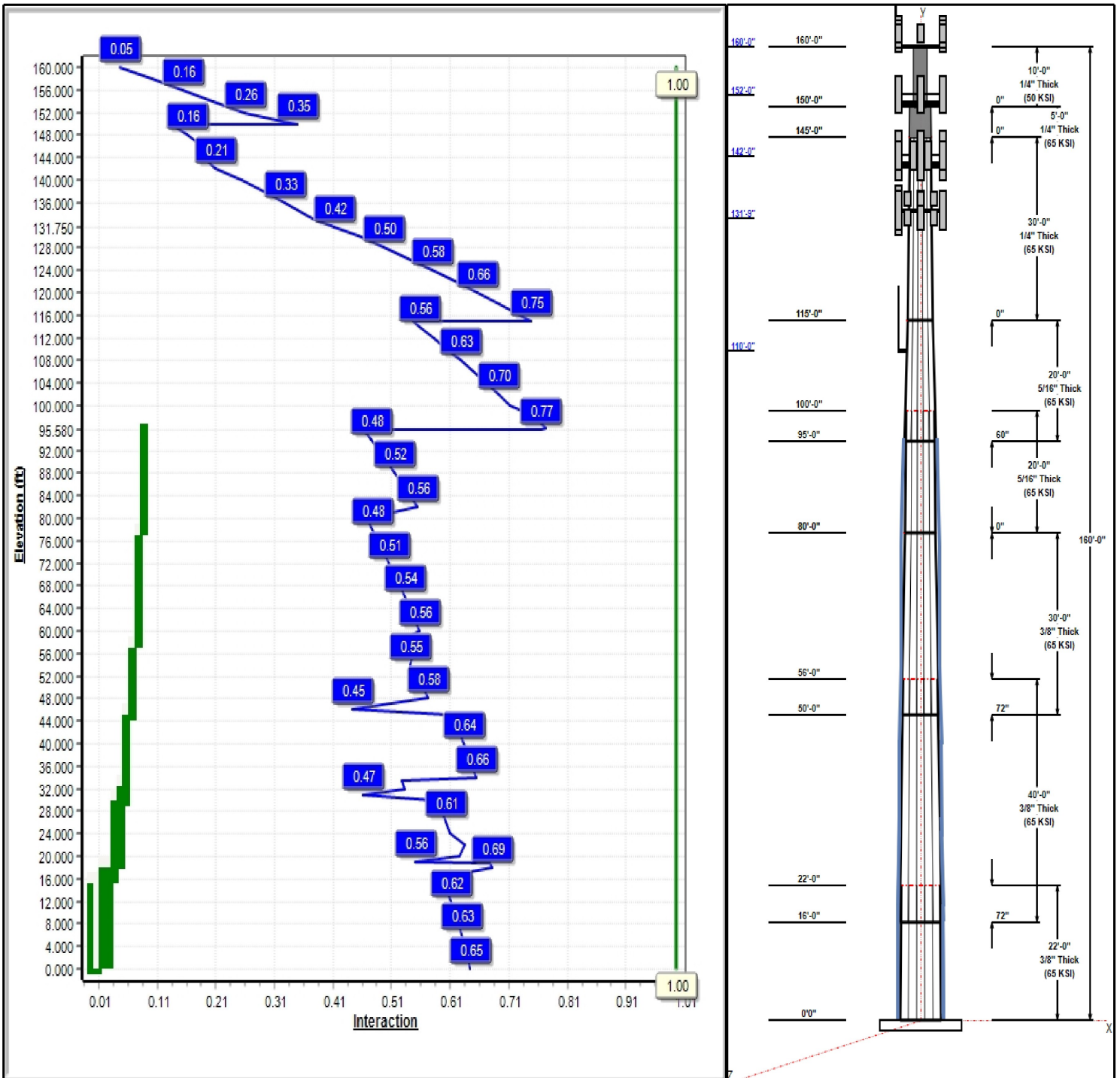
Dead Load Factor: 1.20
 Wind Load Factor: 1.00

Load Case : 1.2D + 1.0W 120 mph Wind



Iterations: 27

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Structure: CT02049-S-SBA

Type: Custom
Site Name: Beacon Falls
Height: 160.00 (ft)
Base Elev: 0.00 (ft)

Base Shape: 12 Sided
Taper: 0.19400

11/17/2022



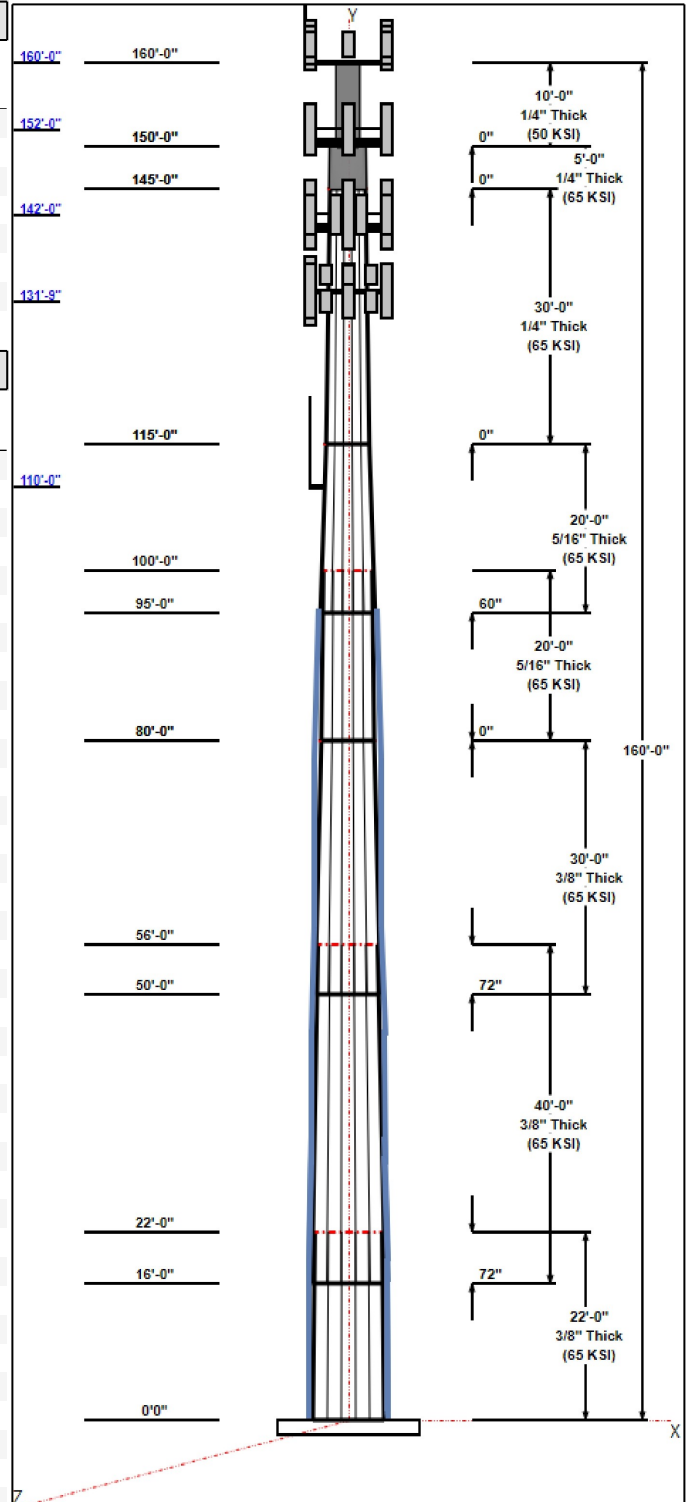
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Shaft Properties

Seq	Length (ft)	Top (in)	Bottom (in)	Thick (in)	Joint Type	Taper	Grade (ksi)
1	22.00	46.11	50.38	0.375		0.19400	65
2	40.00	40.26	48.02	0.375	Slip	0.19400	65
3	30.00	36.35	42.17	0.375	Slip	0.19400	65
4	20.00	32.48	36.35	0.313	Butt	0.19400	65
5	20.00	30.19	34.07	0.313	Slip	0.19400	65
6	30.00	24.38	30.19	0.250	Butt	0.19400	65
7	5.00	24.38	24.38	0.250	Butt	0.19400	65
8	10.00	16.00	16.00	0.250	Butt	0.00000	50

Discrete Appurtenances

Attach Elev (ft)	Force Elev (ft)	Qty	Description	Carrier
160.00	165.00	1	DB222	BFFD
160.00	162.00	6	DB846F65ZAXY	Verizon
160.00	162.00	1	Low Profile Platform	Verizon
160.00	162.00	6	JAHH-65B-R3B	Verizon
160.00	162.00	3	VZS01	Verizon
160.00	162.00	1	CBC78T-DS-43	Verizon
160.00	162.00	3	B2/B66A RRH-BR049	Verizon
160.00	162.00	3	B5/B13 RRH-BR04C	Verizon
160.00	162.00	1	Commscope	Verizon
160.00	163.00	1	6' Lightning rod	--
152.00	152.00	1	MC-PK8-DSH	Dish Wireless
152.00	152.00	3	MX08FRO665-21	Dish Wireless
152.00	152.00	3	TA08025-B605	Dish Wireless
152.00	152.00	3	TA08025-B604	Dish Wireless
152.00	152.00	1	RDIDC-9181-OF-48	Dish Wireless
142.00	142.00	1	Platform w/ HR & Bracing	T-Mobile
142.00	142.00	4	KRD 9011461-B66A-B2A	T-Mobile
142.00	142.00	3	APXVAARR24_43-U-NA20	T-Mobile
142.00	142.00	1	APXVA18-43-C-A20	T-Mobile
142.00	142.00	3	KRY 112 144/1	T-Mobile
142.00	142.00	4	4449 B71 + B85	T-Mobile
142.00	142.00	1	Mod	T-Mobile
142.00	142.00	4	Ericsson Air 6419 B41	T-Mobile
142.00	142.00	4	Ericsson 4460 B25 + B66	T-Mobile
134.75	134.75	3	AIR 6419 B77G	AT&T
133.00	133.00	2	DMP65R-BU6EA-K	AT&T
133.00	133.00	1	DMP65R-BU8EA-K	AT&T
133.00	133.00	3	Kathrein 800-10965	AT&T
133.00	133.00	2	(3) SitePro 1 P/N	AT&T
133.00	133.00	6	Powerwave LGP21401	AT&T
133.00	133.00	3	Ericsson RRUS-32 RRU	AT&T
133.00	133.00	3	Ericsson B2/B66A 8843	AT&T
133.00	133.00	3	Ericsson B5/B12 4449	AT&T
133.00	133.00	2	Raycap DC6-48-60-18-8F	AT&T
133.00	133.00	3	4478 B14	AT&T
133.00	133.00	1	DC9-48-60-24-8C-EV	AT&T
131.75	131.75	3	AIR 6449 B77D	AT&T
110.00	115.29	1	DB222	BFFD
110.00	110.00	1	3 ft Standoff	BFFD
40.00	40.00	1	GPS	Sprint



Linear Appurtenances

Structure: CT02049-S-SBA

Type: Custom	Base Shape: 12 Sided	11/17/2022
Site Name: Beacon Falls	Taper: 0.00000	
Height: 160.00 (ft)		
Base Elev: 0.00 (ft)		Page: 3



Elev From (ft)	Elev To (ft)	Placement	Description	Carrier
0.00	160.00	Inside	1 5/8" Coax	Verizon
0.00	160.00	Outside	1 5/8" Hybrid	Verizon
0.00	160.00	Outside	7/8" Coax	BFFD
0.00	152.00	Outside	1.75" Hybrid	Dish Wireless
0.00	142.00	Inside	1 5/8" Coax	T-Mobile
0.00	142.00	Outside	1 5/8" Fiber	T-Mobile
0.00	142.00	Outside	1-1/4" Fiber	T-Mobile
0.00	142.00	Inside	1.9" Fiber	T-Mobile
0.00	133.00	Inside	0.92" DC Power	AT&T
0.00	133.00	Inside	1 1/4" Coax	AT&T
0.00	133.00	Inside	1 5/8" Coax	AT&T
0.00	133.00	Inside	1/2" Fiber	AT&T
0.00	133.00	Inside	3/8" Fiber	AT&T
0.00	110.00	Outside	7/8" Coax	BFFD
28.00	98.00	Outside	1.25" Reinforcing plate	
0.00	40.00	Inside	1/2" Coax	Sprint
0.00	32.00	Outside	1" Reinforcing plate	
0.00	32.00	Outside	C10x15.3	

Anchor Bolts

Qty	Specifications	Grade (ksi)	Arrangement
18	2.00" F1554 105	105.0	Radial

Base Plate

Thickness (in)	Specifications (in)	Grade (ksi)	Geometry
1.5000	63.0	50.0	Round

Reactions

Load Case	Moment (FT-Kips)	Shear (Kips)	Axial (Kips)
1.2D + 1.0W 120 mph Wind	4032.5	33.7	78.5
0.9D + 1.0W 120 mph Wind	3974.6	33.7	58.8
1.2D + 1.0Di + 1.0Wi 50 mph Wind	969.1	7.8	100.6
1.2D + 1.0Ev + 1.0Eh	77.3	0.5	81.5
0.9D + 1.0Ev + 1.0Eh	77.0	0.5	61.5
1.0D + 1.0W 60 mph Wind	894.6	7.5	65.4

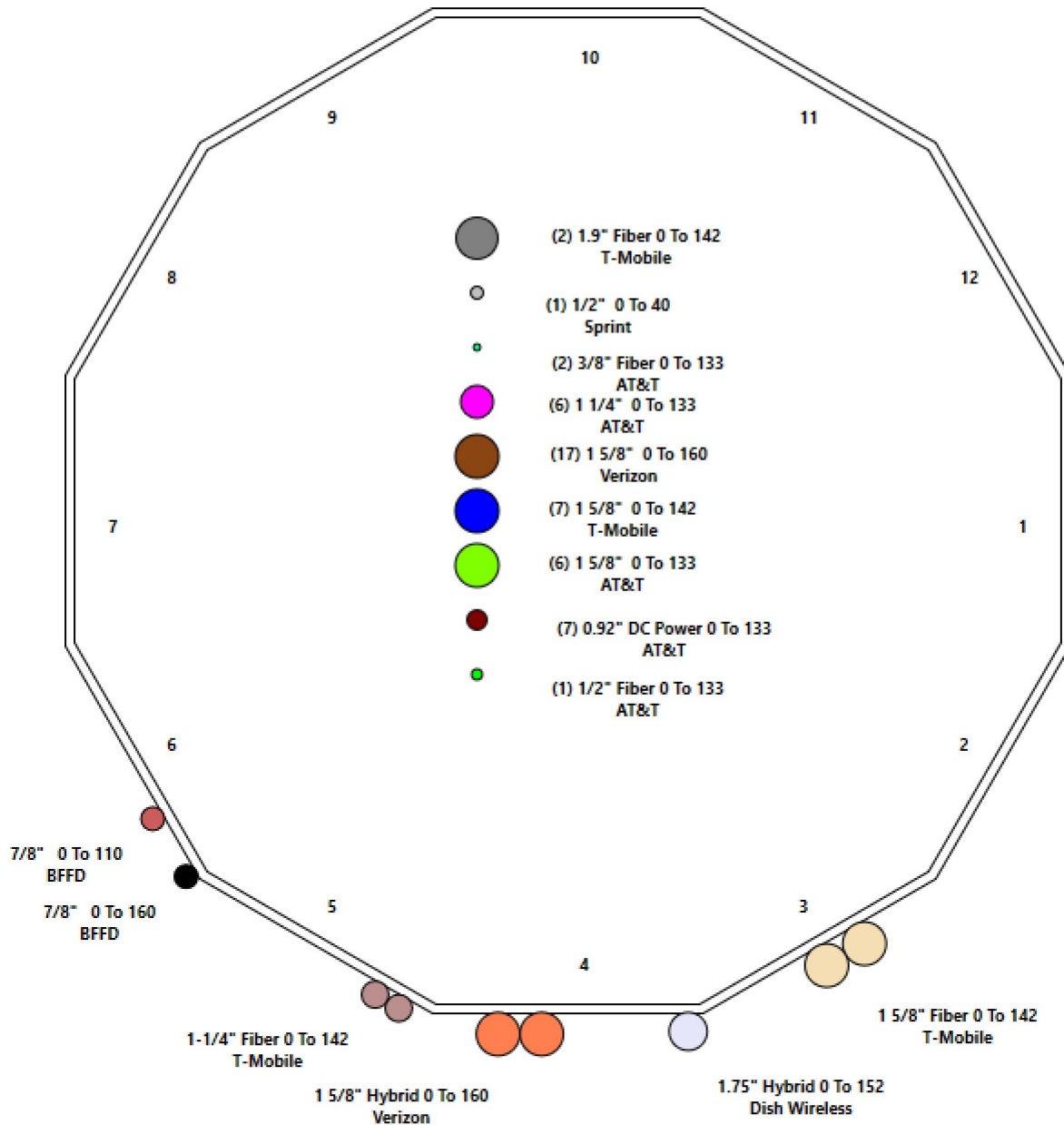
Structure: CT02049-S-SBA - Coax Line Placement

Type: Monopole
Site Name: Beacon Falls
Height: 160.00 (ft)

11/17/2022



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Shaft Properties

Structure: CT02049-S-SBA	Code: TIA-222-H	11/17/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Sec. No.	Shape	Length (ft)	Thick (in)	Fy (ksi)	Joint Type	Overlap (in)	Weight (lb)
1	12	22.000	0.3750	65		0.00	4,327
2	12	40.000	0.3750	65	Slip	72.00	7,193
3	12	30.000	0.3750	65	Slip	72.00	4,794
4	12	20.000	0.3125	65	Flange	0.00	2,335
5	12	20.000	0.3125	65	Slip	60.00	2,179
6	12	30.000	0.2500	65	Flange	0.00	2,221
7	R	5.000	0.2500	65	Flange	0.00	316
8	R	10.000	0.2500	50	Flange	0.00	421
Total Shaft Weight:							23,786

Bottom

Top

Sec. No.	Dia (in)	Elev (ft)	Area (sqin)	Ix (in^4)	W/t Ratio	D/t Ratio	Dia (in)	Elev (ft)	Area (sqin)	Ix (in^4)	W/t Ratio	D/t Ratio	Taper
1	50.38	0.00	60.38	19265.63	33.85	134.33	46.11	22.00	55.22	14741.2	30.80	122.9	0.194000
2	48.02	16.00	57.53	16670.65	32.17	128.06	40.26	56.00	48.16	9779.90	26.62	107.3	0.194000
3	42.17	50.00	50.47	11256.46	27.99	112.47	36.35	80.00	43.45	7178.88	23.83	96.95	0.194000
4	36.35	80.00	36.27	6013.63	29.03	116.34	32.48	100.00	32.36	4273.08	25.70	103.9	0.194000
5	34.07	95.00	33.97	4940.86	27.07	109.02	30.19	115.00	30.06	3425.51	23.74	96.61	0.194000
6	30.19	115.0	24.10	2757.64	30.21	120.76	24.38	145.00	19.42	1441.83	23.98	97.50	0.194000
7	24.38	145.0	18.95	1379.54	0.00	97.50	24.38	150.00	18.19	1219.74	0.00	97.50	0.194000
8	16.00	150.0	12.37	383.86	0.00	64.00	16.00	160.00	12.37	383.86	0.00	64.00	0.000000

Additional Steel

Elev From (ft)	Elev To (ft)	Qty	Description	Fy (ksi)	Fu (ksi)	Offset (in)	Intermediate Connectors		Termination Connectors			
							Spacing (in)	Description	Spacing (in)	Lower Qty	Upper Qty	
0.00	16.25	3	PLT C10x30(1.5" Hole)	65	80	0.00	AJM20&sleeve	20.00	AJM20&sleeve	3.00		
0.00	1.00	3	SOL 2 1/4" William R71	128	150	5.62	5/8" Hollo Bolt	12.00	5/8" Hollo Bolt	3.00		
1.00	18.88	2	LNP LP6X100-BW-20T	65	80	0.00	5/8" Hollo Bolt	24.00	5/8" Hollo Bolt	3.00		9
1.00	18.88	1	LNP LP6x100-B2-20T	65	80	0.00	5/8" Hollo Bolt	24.00	5/8" Hollo Bolt	3.00		9
16.25	31.00	3	PLT C10x15.3(1.5" Hole)	65	80	0.00	AJM20&sleeve	20.00	AJM20&sleeve	3.00		4
18.63	33.38	3	LNP LP6X100-G-20TT	65	80	0.00	5/8" Hollo Bolt	24.00	5/8" Hollo Bolt	3.00	10	10
30.00	46.00	3	PLT 6"X1-1/4"(1.25" Hole)	65	80	0.00	AJM20&sleeve	18.00	AJM20&sleeve	3.00	8	8
45.16	58.00	3	PLT 7" x 1.25"(1.25"Hole)	65	80	0.00	AJM20&sleeve	12.00	AJM20&sleeve	3.00	13	
58.00	78.00	3	PLT 5.5"x1 1/4"(1.25"hol)	65	80	0.00	AJM20&sleeve	18.00	AJM20&sleeve	3.00		
78.00	95.58	3	PLT 5.5"x1 1/4"(1.25"hol)	65	80	0.00	AJM20&sleeve	18.00	AJM20&sleeve	3.00		10

Load Summary

Structure: CT02049-S-SBA	Code: TIA-222-H	11/17/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Discrete Appurtenances

No.	Elev (ft)	Description	Qty	No Ice			Ice			Hor. Ecc. (ft)	Vert Ecc (ft)
				Weight (lb)	CaAa (sf)	CaAa Factor	Weight (lb)	CaAa (sf)	CaAa Factor		
1	160.00	DB222	1	16.00	2.25	1.00	62.50	6.317	1.00	0.00	5.00
2	160.00	DB846F65ZAXY	6	21.00	7.05	0.93	145.05	7.851	0.93	0.00	2.00
3	160.00	Low Profile Platform	1	1200.00	22.00	1.00	1902.61	33.851	1.00	0.00	2.00
4	160.00	JAHH-65B-R3B	6	54.00	9.11	0.83	168.75	7.426	0.83	0.00	2.00
5	160.00	VZS01	3	87.10	4.30	0.69	161.90	5.322	0.69	0.00	2.00
6	160.00	CBC78T-DS-43	1	20.70	0.37	1.00	38.29	0.546	1.00	0.00	2.00
7	160.00	B2/B66A RRH-BR049	3	70.00	1.87	0.67	112.71	2.243	0.67	0.00	2.00
8	160.00	B5/B13 RRH-BR04C (RFV01U-D2A)	3	84.40	1.87	0.67	131.77	2.243	0.67	0.00	2.00
9	160.00	Commscope FE-16148-OVP-B12 -	1	15.00	2.51	1.00	57.39	2.235	1.00	0.00	2.00
10	160.00	6' Lightning rod	1	6.50	0.38	1.00	30.86	1.110	1.00	0.00	3.00
11	152.00	MC-PK8-DSH	1	1727.00	37.59	1.00	2853.71	69.121	1.00	0.00	0.00
12	152.00	MX08FRO665-21	3	64.50	12.49	0.74	258.67	13.468	0.74	0.00	0.00
13	152.00	TA08025-B605	3	75.00	1.96	0.67	109.92	2.334	0.67	0.00	0.00
14	152.00	TA08025-B604	3	63.90	1.96	0.67	97.70	2.334	0.67	0.00	0.00
15	152.00	RDIDC-9181-OF-48	1	21.90	2.01	1.00	57.45	2.389	1.00	0.00	0.00
16	142.00	Platform w/ HR & Bracing	1	2246.00	52.00	1.00	4325.11	77.512	1.00	0.00	0.00
17	142.00	KRD 9011461-B66A-B2A	4	132.20	6.51	0.87	438.14	8.017	0.89	0.00	0.00
18	142.00	APXVAARR24_43-U-NA20	3	128.00	20.24	0.70	424.22	24.924	0.72	0.00	0.00
19	142.00	APXVA18-43-C-A20	1	45.40	9.65	0.82	202.26	10.525	0.84	0.00	0.00
20	142.00	KRY 112 144/1	3	11.00	0.41	0.50	18.15	0.725	0.50	0.00	0.00
21	142.00	4449 B71 + B85	4	73.20	1.97	0.67	111.48	2.348	0.67	0.00	0.00
22	142.00	Mod	1	300.00	12.00	1.00	577.71	20.331	1.00	0.00	0.00
23	142.00	Ericsson Air 6419 B41	4	66.10	3.80	0.76	129.89	4.328	0.76	0.00	0.00
24	142.00	Ericsson 4460 B25 + B66 RRU	4	109.00	2.85	0.67	156.68	3.297	0.67	0.00	0.00
25	134.75	AIR 6419 B77G	3	66.10	3.80	0.76	129.56	4.325	0.76	0.00	0.00
26	133.00	DMP65R-BU6EA-K	2	101.00	17.12	0.71	345.80	18.249	0.71	0.00	0.00
27	133.00	DMP65R-BU8EA-K	1	95.70	17.87	0.73	357.31	19.053	0.73	0.00	0.00
28	133.00	Kathrein 800-10965	3	108.60	13.81	0.71	295.10	14.836	0.71	0.00	0.00
29	133.00	(3) SitePro 1 P/N RMV12-NP W/3	2	1357.77	21.34	0.75	2231.84	39.003	0.75	0.00	0.00
30	133.00	Powerwave LGP21401 TMA	6	14.10	1.29	0.67	30.57	1.841	0.67	0.00	0.00
31	133.00	Ericsson RRUS-32 RRU	3	77.00	3.87	0.67	146.63	3.822	0.67	0.00	0.00
32	133.00	Ericsson B2/B66A 8843 RRU	3	72.00	1.64	0.67	102.86	1.967	0.67	0.00	0.00
33	133.00	Ericsson B5/B12 4449 RRU	3	71.00	1.97	0.67	106.16	2.330	0.67	0.00	0.00
34	133.00	Raycap DC6-48-60-18-8F Junction	2	31.80	0.92	0.67	72.52	1.208	0.67	0.00	0.00
35	133.00	4478 B14	3	59.90	1.84	0.67	90.86	2.187	0.67	0.00	0.00
36	133.00	DC9-48-60-24-8C-EV	1	26.20	1.14	1.00	96.02	2.185	1.00	0.00	0.00
37	131.75	AIR 6449 B77D	3	88.00	4.13	0.85	172.88	4.682	0.85	0.00	0.00
38	110.00	DB222	1	16.00	2.65	1.00	60.79	7.264	1.00	0.00	5.29
39	110.00	3 ft Standoff	1	40.00	2.63	1.00	91.89	6.488	1.00	0.00	0.00
40	40.00	GPS	1	10.00	1.00	1.00	27.13	1.416	1.00	0.00	0.00
Totals:			100	14,203.64			28,529.57				

Linear Appurtenances

Bottom Elev. (ft)	Top Elev. (ft)	Description	Exposed Width	Exposed
0.00	160.00	(17) 1 5/8" Coax	0.00	Inside

Discrete Appurtenances

No.	Elev (ft)	Description	Qty	No Ice		Ice			Hor. Ecc. (ft)	Vert Ecc (ft)
				Weight (lb)	CaAa (sf)	CaAa Factor	Weight (lb)	CaAa (sf)		
0.00	160.00	(2) 1 5/8" Hybrid		2.00						
0.00	160.00	(1) 7/8" Coax		0.00						
0.00	152.00	(1) 1.75" Hybrid		0.00						
0.00	142.00	(7) 1 5/8" Coax		0.00						
0.00	142.00	(2) 1 5/8" Fiber		0.00						
0.00	142.00	(2) 1-1/4" Fiber		0.00						
0.00	142.00	(2) 1.9" Fiber		0.00						
0.00	133.00	(7) 0.92" DC Power		0.00						
0.00	133.00	(6) 1 1/4" Coax		0.00						
0.00	133.00	(6) 1 5/8" Coax		0.00						
0.00	133.00	(1) 1/2" Fiber		0.00						
0.00	133.00	(2) 3/8" Fiber		0.00						
0.00	110.00	(1) 7/8" Coax		0.00						
28.00	98.00	(3) 1.25" Reinforcing plate		1.25						
0.00	40.00	(1) 1/2" Coax		0.00						
0.00	32.00	(3) 1" Reinforcing plate		1.00						
0.00	32.00	(3) C10x15.3		2.60						

Shaft Section Properties

Structure: CT02049-S-SBA	Code: TIA-222-H	11/17/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Increment Length: 2 (ft)

												Additional Reinforcing			
Elev (ft)	Description	Thick (in)	Flat Dia (in)	Area (in^2)	Ix (in^4)	W/t Ratio	D/t Ratio	Fy (ksi)	Fb (ksi)	Weight (lb)	Area (in^2)	Ixp (in^4)	Iyp (in^4)	Weight (lb)	
0.00	RB1 RB2	0.3750	50.375	60.375	19265.6	33.85	134.33	65	68	0.0	38.70	17446.6	13285.7		
1.00	RT2 RB3 RB4	0.3750	50.181	60.141	19042.2	33.71	133.82	65	68	205.0	56.70	25112.0	17048.0	193.5	
2.00		0.3750	49.987	59.906	18820.6	33.57	133.30	65	68	204.2	44.46	16802.1	12906.2	151.2	
4.00		0.3750	49.599	59.438	18382.5	33.30	132.26	65	68	406.1	44.46	16551.1	12714.2	302.5	
6.00		0.3750	49.211	58.969	17951.2	33.02	131.23	65	69	402.9	44.46	16301.9	12523.7	302.5	
8.00		0.3750	48.823	58.501	17526.7	32.74	130.19	65	69	399.7	44.46	16054.6	12334.6	302.5	
10.00		0.3750	48.435	58.032	17109.0	32.46	129.16	65	69	396.5	44.46	15809.2	12147.0	302.5	
12.00		0.3750	48.047	57.564	16698.0	32.19	128.13	65	70	393.3	44.46	15565.7	11960.8	302.5	
14.00		0.3750	47.659	57.095	16293.5	31.91	127.09	65	70	390.2	44.46	15324.1	11776.1	302.5	
16.00	Bot - Section 2	0.3750	47.271	56.627	15895.7	31.63	126.06	65	70	387.0	44.46	15084.3	11592.8	302.5	
16.25	RT1 RB5	0.3750	47.222	56.568	15846.5	31.60	125.93	65	70	97.1	57.93	19988.0	16394.4	49.3	
18.00		0.3750	46.883	56.158	15504.4	31.36	125.02	65	71	676.7	31.47	11472.0	7927.5	187.5	
18.63	RB6	0.3750	46.761	56.011	15382.5	31.27	124.70	65	71	242.4	49.47	16750.0	13223.8	106.1	
18.88	RT3 RT4	0.3750	46.712	55.952	15334.3	31.23	124.57	65	71	96.0	49.47	16717.1	13197.9	42.1	
20.00		0.3750	46.495	55.690	15119.6	31.08	123.99	65	71	428.9	31.47	9602.0	9602.0	120.0	
22.00	Top - Section 1	0.3750	46.857	56.127	15478.5	31.34	124.95	65	71	761.0	31.47	9452.1	9452.1	214.3	
24.00		0.3750	46.469	55.659	15094.1	31.06	123.92	65	71	380.4	31.47	9303.4	9303.4	214.3	
26.00		0.3750	46.081	55.190	14716.1	30.78	122.88	65	71	377.2	31.47	9155.8	9155.8	214.3	
28.00		0.3750	45.693	54.721	14344.5	30.51	121.85	65	71	374.0	31.47	9009.5	9009.5	214.3	
30.00	RB7	0.3750	45.305	54.253	13979.2	30.23	120.81	65	72	370.8	53.97	14995.2	14995.2	367.4	
31.00	RT5	0.3750	45.111	54.019	13798.9	30.09	120.30	65	72	184.2	53.97	14872.4	14872.4	183.7	
32.00		0.3750	44.917	53.784	13620.2	29.95	119.78	65	72	183.4	40.50	10801.3	10801.3	137.8	
33.38	RT6	0.3750	44.649	53.461	13376.0	29.76	119.06	65	72	251.8	40.50	10676.9	10676.9	190.2	
34.00		0.3750	44.529	53.316	13267.3	29.67	118.74	65	72	112.6	22.50	5929.4	5929.4	47.5	
36.00		0.3750	44.141	52.847	12920.6	29.40	117.71	65	73	361.3	22.50	5829.9	5829.9	153.1	
38.00		0.3750	43.753	52.379	12580.0	29.12	116.67	65	73	358.1	22.50	5731.3	5731.3	153.1	
40.00		0.3750	43.365	51.910	12245.5	28.84	115.64	65	73	354.9	22.50	5633.5	5633.5	153.1	
42.00		0.3750	42.977	51.442	11916.9	28.56	114.61	65	74	351.7	22.50	5536.5	5536.5	153.1	
44.00		0.3750	42.589	50.973	11594.2	28.29	113.57	65	74	348.5	22.50	5440.4	5440.4	153.1	
45.16	RB8	0.3750	42.364	50.702	11409.8	28.13	112.97	65	74	200.7	48.75	11681.9	11681.9	192.4	
46.00	RT7	0.3750	42.201	50.505	11277.5	28.01	112.54	65	74	144.6	48.75	11595.5	11595.5	139.3	
48.00		0.3750	41.813	50.036	10966.5	27.73	111.50	65	74	342.1	26.25	6140.1	6140.1	178.6	
50.00	Bot - Section 3	0.3750	41.425	49.568	10661.4	27.46	110.47	65	75	338.9	26.25	6031.0	6031.0	178.6	
52.00		0.3750	41.037	49.099	10361.9	27.18	109.43	65	75	677.6	26.25	6132.8	6132.8	178.6	
54.00		0.3750	40.649	48.631	10068.1	26.90	108.40	65	75	671.3	26.25	6023.7	6023.7	178.6	
56.00	Top - Section 2	0.3750	41.011	49.068	10342.0	27.16	109.36	65	75	664.9	26.25	5915.6	5915.6	178.6	
58.00	RT8 RB9	0.3750	40.623	48.599	10048.6	26.88	108.33	65	75	332.3	46.88	10356.2	10356.2	319.0	
60.00		0.3750	40.235	48.131	9760.8	26.61	107.29	65	76	329.2	20.63	4464.3	4464.3	140.4	
62.00		0.3750	39.847	47.662	9478.5	26.33	106.26	65	76	326.0	20.63	4381.7	4381.7	140.4	
64.00		0.3750	39.459	47.194	9201.7	26.05	105.22	65	76	322.8	20.63	4299.9	4299.9	140.4	
66.00		0.3750	39.071	46.725	8930.4	25.77	104.19	65	77	319.6	20.63	4218.8	4218.8	140.4	
68.00		0.3750	38.683	46.257	8664.5	25.50	103.15	65	77	316.4	20.63	4138.5	4138.5	140.4	
70.00		0.3750	38.295	45.788	8403.8	25.22	102.12	65	77	313.2	20.63	4059.0	4059.0	140.4	
72.00		0.3750	37.907	45.320	8148.5	24.94	101.09	65	78	310.0	20.63	3980.3	3980.3	140.4	
74.00		0.3750	37.519	44.851	7898.4	24.66	100.05	65	78	306.8	20.63	3902.4	3902.4	140.4	
76.00		0.3750	37.131	44.383	7653.5	24.39	99.02	65	78	303.6	20.63	3825.2	3825.2	140.4	
78.00	RT9 RB10	0.3750	36.743	43.914	7413.6	24.11	97.98	65	78	300.5	41.25	7497.6	7497.6	280.7	
80.00	Top - Section 3	0.3750	36.355	43.446	7178.9	23.83	96.95	65	79	297.3	20.63	3673.2	3673.2	140.4	
80.00	Bot - Section 4	0.3125	36.355	36.268	6013.6	28.60	116.34	65	73						
82.00		0.3125	35.967	35.877	5821.5	28.70	115.09	65	73	245.5	20.63	3598.3	3598.3	140.4	

Increment Length: 2 (ft)

Elev (ft)	Description	Thick (in)	Flat Dia (in)	Area (in^2)	Ix (in^4)	W/t Ratio	D/t Ratio	Fy (ksi)	Fb (ksi)	Weight (lb)	Additional Reinforcing			
											Area (in^2)	Ixp (in^4)	Iyp (in^4)	Weight (lb)
84.00		0.3125	35.579	35.487	5633.5	28.36	113.85	65	74	242.8	20.63	3524.2	3524.2	140.4
86.00		0.3125	35.191	35.096	5449.6	28.03	112.61	65	74	240.2	20.63	3451.0	3451.0	140.4
88.00		0.3125	34.803	34.706	5269.8	27.70	111.37	65	75	237.5	20.63	3378.4	3378.4	140.4
90.00		0.3125	34.415	34.316	5093.9	27.37	110.13	65	75	234.9	20.63	3306.7	3306.7	140.4
92.00		0.3125	34.027	33.925	4922.0	27.03	108.89	65	75	232.2	20.63	3235.7	3235.7	140.4
94.00		0.3125	33.639	33.535	4754.0	26.70	107.64	65	76	229.6	20.63	3165.5	3165.5	140.4
95.00	Bot - Section 5	0.3125	33.445	33.340	4671.5	26.53	107.02	65	76	113.8	20.63	3130.7	3130.7	70.2
95.58	RT10	0.3125	33.332	33.226	4624.0	26.44	106.66	65	76	132.6	20.63	3223.1	3223.1	40.7
96.00		0.3125	33.251	33.144	4589.9	26.37	106.40	65	76	95.8				
98.00		0.3125	32.863	32.754	4429.6	26.03	105.16	65	76	452.8				
100.00	Top - Section 4	0.3125	33.100	32.992	4527.1	26.24	105.92	65	76	447.4				
102.00		0.3125	32.712	32.602	4368.2	25.90	104.68	65	76	223.2				
104.00		0.3125	32.324	32.212	4213.2	25.57	103.44	65	77	220.5				
106.00		0.3125	31.936	31.821	4061.8	25.24	102.20	65	77	217.9				
108.00		0.3125	31.548	31.431	3914.1	24.91	100.95	65	78	215.2				
110.00		0.3125	31.160	31.040	3770.1	24.57	99.71	65	78	212.6				
112.00		0.3125	30.772	30.650	3629.6	24.24	98.47	65	78	209.9				
114.00		0.3125	30.384	30.259	3492.7	23.91	97.23	65	79	207.3				
115.00	Top - Section 5	0.3125	30.190	30.064	3425.5	23.74	96.61	65	79	102.6				
115.00	Bot - Section 6	0.2500	30.190	24.102	2757.6	29.68	120.76	65	72					
116.00		0.2500	29.996	23.946	2704.4	30.01	119.98	65	72	81.7				
118.00		0.2500	29.608	23.633	2599.9	29.59	118.43	65	72	161.9				
120.00		0.2500	29.220	23.321	2498.2	29.17	116.88	65	73	159.8				
122.00		0.2500	28.832	23.009	2399.2	28.76	115.33	65	73	157.6				
124.00		0.2500	28.444	22.696	2302.8	28.34	113.78	65	74	155.5				
126.00		0.2500	28.056	22.384	2209.0	27.93	112.22	65	74	153.4				
128.00		0.2500	27.668	22.071	2117.8	27.51	110.67	65	75	151.3				
130.00		0.2500	27.280	21.759	2029.2	27.10	109.12	65	75	149.1				
131.75		0.2500	26.941	21.486	1953.7	26.73	107.76	65	76	128.8				
132.00		0.2500	26.892	21.447	1943.0	26.68	107.57	65	76	18.3				
133.00		0.2500	26.698	21.291	1900.9	26.47	106.79	65	76	72.7				
134.00		0.2500	26.504	21.134	1859.4	26.26	106.02	65	76	72.2				
134.75		0.2500	26.359	21.017	1828.6	26.11	105.43	65	76	53.8				
136.00		0.2500	26.116	20.822	1778.2	25.85	104.46	65	77	89.0				
138.00		0.2500	25.728	20.510	1699.3	25.43	102.91	65	77	140.6				
140.00		0.2500	25.340	20.197	1622.9	25.02	101.36	65	77	138.5				
142.00		0.2500	24.952	19.885	1548.7	24.60	99.81	65	78	136.4				
144.00		0.2500	24.564	19.573	1476.9	24.18	98.26	65	78	134.3				
145.00	Top - Section 6	0.2500	24.370	19.417	1441.8	23.98	97.48	65	79	66.3				
145.00	Bot - Section 7	0.2500	24.375	18.948	1379.5	23.98	97.48	65	55					
146.00		0.2500	24.181	18.795	1346.5	0.00	96.72	65	55	64.2				
148.00		0.2500	23.793	18.491	1282.1	0.00	95.17	65	55	126.9				
150.00	Top - Section 7	0.2500	23.405	18.186	1219.7	0.00	93.62	65	55	124.8				
150.00	Bot - Section 8	0.2500	16.000	12.370	383.9	0.00	93.62	50	50					
152.00		0.2500	16.000	12.370	383.9	0.00	64.00	50	50	84.2				
154.00		0.2500	16.000	12.370	383.9	0.00	64.00	50	50	84.2				
156.00		0.2500	16.000	12.370	383.9	0.00	64.00	50	50	84.2				
158.00		0.2500	16.000	12.370	383.9	0.00	64.00	50	50	84.2				
160.00		0.2500	16.000	12.370	383.9	0.00	64.00	50	50	84.2				
Total Weight										23786.1	9838.3			

Wind Loading - Shaft

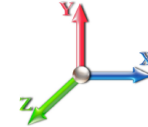
Structure: CT02049-S-SBA	Code: TIA-222-H	11/17/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Load Case: 1.2D + 1.0W 120 mph Wind

Dead Load Factor 1.20
Wind Load Factor 1.00



Iterations 27

Elev (ft)	Description	Kzt	Kz	qz (psf)	qzGh (psf)	C (mph-ft)	Cf	Ice Thick (in)	Tributary (ft)	Aa (sf)	CfAa (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)
0.00	RB1 RB2	1.00	0.70	23.966	26.36	431.43	0.950	0.000	0.00	0.000	0.00	0.0	0.0	0.0
1.00	RT2 RB3 RB4	1.00	0.70	23.966	26.36	429.76	0.972 *	0.000	1.00	4.338	4.21	111.1	0.0	246.1
2.00		1.00	0.70	23.966	26.36	428.10	0.973 *	0.000	1.00	4.321	4.20	110.8	0.0	245.1
4.00		1.00	0.70	23.966	26.36	424.78	0.975 *	0.000	2.00	8.592	8.37	220.7	0.0	487.3
6.00		1.00	0.70	23.966	26.36	421.46	0.977 *	0.000	2.00	8.525	8.33	219.6	0.0	483.5
8.00		1.00	0.70	23.966	26.36	418.13	0.980 *	0.000	2.00	8.458	8.28	218.4	0.0	479.7
10.00		1.00	0.70	23.966	26.36	414.81	0.982 *	0.000	2.00	8.391	8.24	217.2	0.0	475.8
12.00		1.00	0.70	23.966	26.36	411.49	0.985 *	0.000	2.00	8.324	8.20	216.0	0.0	472.0
14.00		1.00	0.70	23.966	26.36	408.16	0.987 *	0.000	2.00	8.257	8.15	214.9	0.0	468.2
16.00	Bot - Section 2	1.00	0.70	23.966	26.36	404.84	0.990 *	0.000	2.00	8.190	8.11	213.7	0.0	464.4
16.25	RT1 RB5	1.00	0.70	23.966	26.36	404.43	0.991 *	0.000	0.25	1.035	1.03	27.1	0.0	116.5
18.00		1.00	0.70	23.966	26.36	401.52	0.993 *	0.000	1.75	7.217	7.16	188.9	0.0	812.0
18.63	RB6	1.00	0.70	23.966	26.36	400.47	0.994 *	0.000	0.63	2.586	2.57	67.8	0.0	290.9
18.88	RT3 RT4	1.00	0.70	23.966	26.36	400.06	0.995 *	0.000	0.25	1.024	1.02	26.9	0.0	115.2
20.00		1.00	0.70	23.966	26.36	398.20	0.996 *	0.000	1.12	4.576	4.56	120.1	0.0	514.7
22.00	Top - Section 1	1.00	0.70	23.966	26.36	394.87	0.998 *	0.000	2.00	8.118	8.10	213.6	0.0	913.2
24.00		1.00	0.70	23.966	26.36	397.97	0.995 *	0.000	2.00	8.052	8.01	211.3	0.0	456.5
26.00		1.00	0.70	23.966	26.36	394.65	0.998 *	0.000	2.00	7.985	7.97	210.1	0.0	452.6
28.00		1.00	0.70	23.966	26.36	391.33	1.001 *	0.000	2.00	7.918	7.93	208.9	0.0	448.8
30.00	RB7	1.00	0.70	23.986	26.38	388.17	1.079 *	0.000	2.00	7.851	8.47	223.6	0.0	445.0
31.00	RT5	1.00	0.71	24.212	26.63	388.32	1.082 *	0.000	1.00	3.900	4.22	112.4	0.0	221.1
32.00		1.00	0.71	24.433	26.88	388.41	1.084 *	0.000	1.00	3.883	4.21	113.1	0.0	220.1
33.38	RT6	1.00	0.72	24.729	27.20	388.43	0.950	0.000	1.38	5.332	5.07	137.8	0.0	302.2
34.00		1.00	0.73	24.859	27.35	388.40	0.950	0.000	0.62	2.385	2.27	62.0	0.0	135.2
36.00		1.00	0.74	25.269	27.80	388.17	0.950	0.000	2.00	7.650	7.27	202.0	0.0	433.5
38.00		1.00	0.75	25.662	28.23	387.75	0.950	0.000	2.00	7.583	7.20	203.3	0.0	429.7
40.00	Appurtenance(s)	1.00	0.76	26.041	28.65	387.13	0.950	0.000	2.00	7.516	7.14	204.5	0.0	425.8
42.00		1.00	0.77	26.407	29.05	386.35	0.950	0.000	2.00	7.449	7.08	205.6	0.0	422.0
44.00		1.00	0.78	26.760	29.44	385.42	0.950	0.000	2.00	7.382	7.01	206.4	0.0	418.2
45.16	RB8	1.00	0.79	26.960	29.66	384.81	0.950	0.000	1.16	4.251	4.04	119.8	0.0	240.8
46.00	RT7	1.00	0.79	27.102	29.81	384.34	0.950	0.000	0.84	3.064	2.91	86.8	0.0	173.6
48.00		1.00	0.80	27.433	30.18	383.13	0.950	0.000	2.00	7.248	6.89	207.8	0.0	410.5
50.00	Bot - Section 3	1.00	0.81	27.755	30.53	381.79	0.950	0.000	2.00	7.181	6.82	208.3	0.0	406.7
52.00		1.00	0.82	28.068	30.87	380.34	0.950	0.000	2.00	7.244	6.88	212.5	0.0	813.2
54.00		1.00	0.83	28.372	31.21	378.78	0.950	0.000	2.00	7.177	6.82	212.8	0.0	805.5
56.00	Top - Section 2	1.00	0.84	28.669	31.54	377.12	0.950	0.000	2.00	7.110	6.75	213.0	0.0	797.9
58.00	RT8 RB9	1.00	0.85	28.958	31.85	382.43	0.950	0.000	2.00	7.043	6.69	213.1	0.0	398.8
60.00		1.00	0.85	29.239	32.16	380.61	0.950	0.000	2.00	6.976	6.63	213.1	0.0	395.0
62.00		1.00	0.86	29.515	32.47	378.71	0.950	0.000	2.00	6.909	6.56	213.1	0.0	391.2
64.00		1.00	0.87	29.784	32.76	376.73	0.950	0.000	2.00	6.842	6.50	212.9	0.0	387.3
66.00		1.00	0.88	30.047	33.05	374.67	0.950	0.000	2.00	6.775	6.44	212.7	0.0	383.5
68.00		1.00	0.89	30.304	33.33	372.53	0.950	0.000	2.00	6.708	6.37	212.4	0.0	379.7
70.00		1.00	0.89	30.556	33.61	370.33	0.950	0.000	2.00	6.641	6.31	212.1	0.0	375.9
72.00		1.00	0.90	30.803	33.88	368.05	0.950	0.000	2.00	6.574	6.25	211.6	0.0	372.0
74.00		1.00	0.91	31.045	34.15	365.71	0.950	0.000	2.00	6.507	6.18	211.1	0.0	368.2
76.00		1.00	0.91	31.283	34.41	363.31	0.950	0.000	2.00	6.440	6.12	210.5	0.0	364.4
78.00	RT9 RB10	1.00	0.92	31.516	34.67	360.85	0.950	0.000	2.00	6.373	6.05	209.9	0.0	360.5

Wind Loading - Shaft

Structure: CT02049-S-SBA	Code: TIA-222-H	11/17/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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80.00 Top - Section 3	1.00	0.93	31.744	34.92	358.34	0.950	0.000	2.00	6.306	5.99	209.2	0.0	356.7
82.00	1.00	0.93	31.969	35.17	355.76	0.950	0.000	2.00	6.239	5.93	208.4	0.0	294.6
84.00	1.00	0.94	32.190	35.41	353.14	0.950	0.000	2.00	6.172	5.86	207.6	0.0	291.4
86.00	1.00	0.95	32.407	35.65	350.47	0.950	0.000	2.00	6.106	5.80	206.8	0.0	288.2
88.00	1.00	0.95	32.621	35.88	347.74	0.950	0.000	2.00	6.039	5.74	205.8	0.0	285.0
90.00	1.00	0.96	32.831	36.11	344.97	0.950	0.000	2.00	5.972	5.67	204.9	0.0	281.8
92.00	1.00	0.96	33.038	36.34	342.15	0.950	0.000	2.00	5.905	5.61	203.9	0.0	278.7
94.00	1.00	0.97	33.241	36.57	339.29	0.950	0.000	2.00	5.838	5.55	202.8	0.0	275.5
95.00 Bot - Section 5	1.00	0.97	33.342	36.68	337.85	0.950	0.000	1.00	2.894	2.75	100.8	0.0	136.5
95.58 RT10	1.00	0.98	33.400	36.74	337.00	0.950	0.000	0.58	1.702	1.62	59.4	0.0	159.1
96.00	1.00	0.98	33.442	36.79	336.39	0.950	0.000	0.42	1.229	1.17	42.9	0.0	114.9
98.00	1.00	0.98	33.639	37.00	333.45	0.950	0.000	2.00	5.812	5.52	204.3	0.0	543.3
100.00 Top - Section 4	1.00	0.99	33.834	37.22	330.46	0.950	0.000	2.00	5.745	5.46	203.1	0.0	536.9
102.00	1.00	0.99	34.026	37.43	333.82	0.950	0.000	2.00	5.678	5.39	201.9	0.0	267.8
104.00	1.00	1.00	34.215	37.64	330.77	0.950	0.000	2.00	5.611	5.33	200.6	0.0	264.7
106.00	1.00	1.00	34.402	37.84	327.69	0.950	0.000	2.00	5.544	5.27	199.3	0.0	261.5
108.00	1.00	1.01	34.586	38.04	324.58	0.950	0.000	2.00	5.477	5.20	198.0	0.0	258.3
110.00 Appurtenance(s)	1.00	1.02	34.768	38.24	321.43	0.950	0.000	2.00	5.410	5.14	196.6	0.0	255.1
112.00	1.00	1.02	34.948	38.44	318.24	0.950	0.000	2.00	5.343	5.08	195.1	0.0	251.9
114.00	1.00	1.03	35.125	38.64	315.02	0.950	0.000	2.00	5.276	5.01	193.7	0.0	248.7
115.00 Top - Section 5	1.00	1.03	35.213	38.73	313.40	0.950	0.000	1.00	2.613	2.48	96.1	0.0	123.2
116.00	1.00	1.03	35.300	38.83	311.78	0.950	0.000	1.00	2.596	2.47	95.8	0.0	98.1
118.00	1.00	1.04	35.473	39.02	308.50	0.950	0.000	2.00	5.142	4.89	190.6	0.0	194.3
120.00	1.00	1.04	35.643	39.21	305.18	0.950	0.000	2.00	5.075	4.82	189.0	0.0	191.7
122.00	1.00	1.05	35.812	39.39	301.84	0.950	0.000	2.00	5.008	4.76	187.4	0.0	189.2
124.00	1.00	1.05	35.979	39.58	298.47	0.950	0.000	2.00	4.941	4.69	185.8	0.0	186.6
126.00	1.00	1.06	36.144	39.76	295.08	0.950	0.000	2.00	4.874	4.63	184.1	0.0	184.1
128.00	1.00	1.06	36.307	39.94	291.65	0.950	0.000	2.00	4.807	4.57	182.4	0.0	181.5
130.00	1.00	1.07	36.468	40.11	288.20	0.950	0.000	2.00	4.741	4.50	180.7	0.0	179.0
131.75 Appurtenance(s)	1.00	1.07	36.607	40.27	285.16	0.950	0.000	1.75	4.093	3.89	156.6	0.0	154.5
132.00	1.00	1.07	36.627	40.29	284.72	0.950	0.000	0.25	0.581	0.55	22.2	0.0	21.9
133.00 Appurtenance(s)	1.00	1.07	36.706	40.38	282.97	0.950	0.000	1.00	2.312	2.20	88.7	0.0	87.3
134.00	1.00	1.07	36.785	40.46	281.22	0.950	0.000	1.00	2.295	2.18	88.2	0.0	86.6
134.75 Appurtenance(s)	1.00	1.08	36.844	40.53	279.90	0.950	0.000	0.75	1.710	1.62	65.8	0.0	64.5
136.00	1.00	1.08	36.941	40.64	277.69	0.950	0.000	1.25	2.829	2.69	109.2	0.0	106.8
138.00	1.00	1.08	37.095	40.80	274.13	0.950	0.000	2.00	4.473	4.25	173.4	0.0	168.8
140.00	1.00	1.09	37.248	40.97	270.55	0.950	0.000	2.00	4.406	4.19	171.5	0.0	166.2
142.00 Appurtenance(s)	1.00	1.09	37.400	41.14	266.95	0.950	0.000	2.00	4.339	4.12	169.6	0.0	163.7
144.00	1.00	1.10	37.549	41.30	263.33	0.950	0.000	2.00	4.272	4.06	167.6	0.0	161.1
145.00 Top - Section 6	1.00	1.10	37.624	41.39	261.50	0.950	0.000	1.00	2.111	2.01	83.0	0.0	79.6
146.00	1.00	1.10	37.698	41.47	250.88	0.600	0.000	1.00	2.023	1.21	50.3	0.0	77.1
148.00	1.00	1.11	37.844	41.63	247.34	0.600	0.000	2.00	3.998	2.40	99.9	0.0	152.3
150.00 Top - Section 7	1.00	1.11	37.990	41.79	243.77	0.600	0.000	2.00	3.933	2.36	98.6	0.0	149.8
152.00 Appurtenance(s)	1.00	1.11	38.134	41.95	166.96	0.645*	0.000	2.00	2.667	1.72	72.1	0.0	101.0
154.00	1.00	1.12	38.276	42.10	167.27	0.645*	0.000	2.00	2.667	1.72	72.4	0.0	101.0
156.00	1.00	1.12	38.418	42.26	167.58	0.645*	0.000	2.00	2.667	1.72	72.7	0.0	101.0
158.00	1.00	1.13	38.558	42.41	167.89	0.645*	0.000	2.00	2.667	1.72	73.0	0.0	101.0
160.00 Appurtenance(s)	1.00	1.13	38.697	42.57	168.19	0.645*	0.000	2.00	2.667	1.72	73.2	0.0	101.0
Totals:								160.00			15,326.4		28,543.3

* Cf Adjusted by Linear Load Ra Effect

Discrete Appurtenance Forces

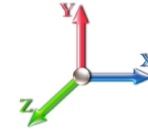
Structure: CT02049-S-SBA	Code: TIA-222-H	11/17/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Load Case: 1.2D + 1.0W 120 mph Wind

Dead Load Factor 1.20
Wind Load Factor 1.00



Iterations 27

No.	Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	Orient Factor	x Ka	Ka	Total CaAa (sf)	Dead Load (lb)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)
1	160.00	VZS01	3	38.834	42.718	0.62	0.90	8.01	313.56	0.000	2.000	342.21	0.00	684.42	
2	160.00	DB222	1	39.039	42.942	1.00	1.00	2.25	19.20	0.000	5.000	96.62	0.00	483.10	
3	160.00	DB846F65ZAXY	6	38.834	42.718	0.84	0.90	35.41	151.20	0.000	2.000	1512.43	0.00	3024.86	
4	160.00	Low Profile Platform	1	38.834	42.718	1.00	1.00	22.00	1440.00	0.000	2.000	939.79	0.00	1879.58	
5	160.00	JAHH-65B-R3B	6	38.834	42.718	0.75	0.90	40.83	388.80	0.000	2.000	1744.21	0.00	3488.42	
6	160.00	6' Lightning rod	1	38.903	42.793	1.00	1.00	0.38	7.80	0.000	3.000	16.26	0.00	48.78	
7	160.00	CBC78T-DS-43	1	38.834	42.718	1.00	1.00	0.37	24.84	0.000	2.000	15.81	0.00	31.61	
8	160.00	B2/B66A RRH-BR049	3	38.834	42.718	0.60	0.90	3.38	252.00	0.000	2.000	144.51	0.00	289.01	
9	160.00	B5/B13 RRH-BR04C	3	38.834	42.718	0.60	0.90	3.38	303.84	0.000	2.000	144.51	0.00	289.01	
10	160.00	Commscope	1	38.834	42.718	1.00	1.00	2.51	18.00	0.000	2.000	107.22	0.00	214.44	
11	152.00	MC-PK8-DSH	1	38.134	41.947	1.00	1.00	37.59	2072.40	0.000	0.000	1576.79	0.00	0.00	
12	152.00	MX08FRO665-21	3	38.134	41.947	0.55	0.75	20.80	232.20	0.000	0.000	872.33	0.00	0.00	
13	152.00	TA08025-B605	3	38.134	41.947	0.50	0.75	2.95	270.00	0.000	0.000	123.94	0.00	0.00	
14	152.00	TA08025-B604	3	38.134	41.947	0.50	0.75	2.95	230.04	0.000	0.000	123.94	0.00	0.00	
15	152.00	RDIDC-9181-OF-48	1	38.134	41.947	0.75	0.75	1.51	26.28	0.000	0.000	63.24	0.00	0.00	
16	142.00	Ericsson 4460 B25 + B66	4	37.400	41.139	0.50	0.75	5.73	523.20	0.000	0.000	235.67	0.00	0.00	
17	142.00	Ericsson Air 6419 B41	4	37.400	41.139	0.57	0.75	8.66	317.28	0.000	0.000	356.43	0.00	0.00	
18	142.00	Mod	1	37.400	41.139	1.00	1.00	12.00	360.00	0.000	0.000	493.67	0.00	0.00	
19	142.00	4449 B71 + B85	4	37.400	41.139	0.54	0.80	4.22	351.36	0.000	0.000	173.76	0.00	0.00	
20	142.00	KRY 112 144/1	3	37.400	41.139	0.38	0.75	0.46	39.60	0.000	0.000	18.98	0.00	0.00	
21	142.00	APXVA18-43-C-A20	1	37.400	41.139	0.61	0.75	5.93	54.48	0.000	0.000	244.15	0.00	0.00	
22	142.00	APXVAARR24_43-U-NA2	3	37.400	41.139	0.52	0.75	31.88	460.80	0.000	0.000	1311.44	0.00	0.00	
23	142.00	KRD 9011461-B66A-B2A	4	37.400	41.139	0.65	0.75	16.99	634.56	0.000	0.000	699.00	0.00	0.00	
24	142.00	Platform w/ HR & Bracing	1	37.400	41.139	1.00	1.00	52.00	2695.20	0.000	0.000	2139.25	0.00	0.00	
25	134.75	AIR 6419 B77G	3	36.844	40.528	0.61	0.80	6.93	237.96	0.000	0.000	280.91	0.00	0.00	
26	133.00	DMP65R-BU6EA-K	2	36.706	40.377	0.57	0.80	19.45	242.40	0.000	0.000	785.26	0.00	0.00	
27	133.00	DMP65R-BU8EA-K	1	36.706	40.377	0.58	0.80	10.44	114.84	0.000	0.000	421.38	0.00	0.00	
28	133.00	Kathrein 800-10965	3	36.706	40.377	0.57	0.80	23.53	390.96	0.000	0.000	950.16	0.00	0.00	
29	133.00	(3) SitePro 1 P/N	2	36.706	40.377	0.56	0.75	24.01	3258.65	0.000	0.000	969.35	0.00	0.00	
30	133.00	Powerwave LGP21401	6	36.706	40.377	0.54	0.80	4.15	101.52	0.000	0.000	167.51	0.00	0.00	
31	133.00	Ericsson RRUS-32 RRU	3	36.706	40.377	0.54	0.80	6.22	277.20	0.000	0.000	251.26	0.00	0.00	
32	133.00	Ericsson B2/B66A 8843	3	36.706	40.377	0.54	0.80	2.64	259.20	0.000	0.000	106.48	0.00	0.00	
33	133.00	Ericsson B5/B12 4449	3	36.706	40.377	0.54	0.80	3.17	255.60	0.000	0.000	127.90	0.00	0.00	
34	133.00	Raycap DC6-48-60-18-8F	2	36.706	40.377	0.54	0.80	0.99	76.32	0.000	0.000	39.82	0.00	0.00	
35	133.00	4478 B14	3	36.706	40.377	0.54	0.80	2.96	215.64	0.000	0.000	119.46	0.00	0.00	
36	133.00	DC9-48-60-24-8C-EV	1	36.706	40.377	0.80	0.80	0.91	31.44	0.000	0.000	36.82	0.00	0.00	
37	131.75	AIR 6449 B77D	3	36.607	40.268	0.68	0.80	8.43	316.80	0.000	0.000	339.27	0.00	0.00	
38	110.00	3 ft Standoff	1	34.768	38.245	1.00	1.00	2.63	48.00	0.000	0.000	100.58	0.00	0.00	
39	110.00	DB222	1	35.238	38.762	1.00	1.00	2.65	19.20	0.000	5.292	102.72	0.00	543.56	
40	40.00	GPS	1	26.041	28.645	1.00	1.00	1.00	12.00	0.000	0.000	28.65	0.00	0.00	

Totals: 17,044.37

18,323.71

Total Applied Force Summary

Structure: CT02049-S-SBA	Code: TIA-222-H	11/17/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II

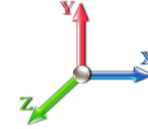


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Load Case: 1.2D + 1.0W 120 mph Wind

Dead Load Factor 1.20

Wind Load Factor 1.00



Iterations 27

Elev (ft)	Description	Lateral FX (-) (lb)	Axial FY (-) (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)
0.00		0.00	0.00	0.00	0.00
1.00		111.11	665.79	0.00	0.00
2.00		110.81	664.83	0.00	0.00
4.00		220.74	1326.79	0.00	0.00
6.00		219.57	1322.97	0.00	0.00
8.00		218.40	1319.14	0.00	0.00
10.00		217.22	1315.31	0.00	0.00
12.00		216.05	1311.49	0.00	0.00
14.00		214.88	1307.66	0.00	0.00
16.00		213.70	1303.84	0.00	0.00
16.25		27.05	221.41	0.00	0.00
18.00		188.86	1546.53	0.00	0.00
18.63		67.77	555.32	0.00	0.00
18.88		26.86	220.15	0.00	0.00
20.00		120.12	984.82	0.00	0.00
22.00		213.59	1752.64	0.00	0.00
24.00		211.28	1295.93	0.00	0.00
26.00		210.10	1292.10	0.00	0.00
28.00		208.93	1288.27	0.00	0.00
30.00		223.60	1644.45	0.00	0.00
31.00		112.41	820.79	0.00	0.00
32.00		113.13	819.83	0.00	0.00
33.38		137.78	633.00	0.00	0.00
34.00		61.96	283.80	0.00	0.00
36.00		202.00	912.97	0.00	0.00
38.00		203.35	909.14	0.00	0.00
40.00	(1) attachments	233.18	917.32	0.00	0.00
42.00		205.55	901.11	0.00	0.00
44.00		206.43	897.28	0.00	0.00
45.16		119.76	518.67	0.00	0.00
46.00		86.78	374.79	0.00	0.00
48.00		207.79	889.63	0.00	0.00
50.00		208.29	885.80	0.00	0.00
52.00		212.46	1292.26	0.00	0.00
54.00		212.78	1284.61	0.00	0.00
56.00		213.00	1276.96	0.00	0.00
58.00		213.12	877.89	0.00	0.00
60.00		213.15	874.07	0.00	0.00
62.00		213.09	870.24	0.00	0.00
64.00		212.95	866.42	0.00	0.00
66.00		212.73	862.59	0.00	0.00
68.00		212.43	858.76	0.00	0.00
70.00		212.06	854.94	0.00	0.00
72.00		211.62	851.11	0.00	0.00
74.00		211.11	847.28	0.00	0.00
76.00		210.53	843.46	0.00	0.00
78.00		209.90	839.63	0.00	0.00

Total Applied Force Summary

Structure: CT02049-S-SBA	Code: TIA-222-H	11/17/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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80.00		209.20	835.81	0.00	0.00
82.00		208.45	773.68	0.00	0.00
84.00		207.63	770.49	0.00	0.00
86.00		206.77	767.30	0.00	0.00
88.00		205.85	764.11	0.00	0.00
90.00		204.88	760.92	0.00	0.00
92.00		203.86	757.74	0.00	0.00
94.00		202.79	754.55	0.00	0.00
95.00		100.83	376.08	0.00	0.00
95.58		59.40	298.07	0.00	0.00
96.00		42.95	215.51	0.00	0.00
98.00		204.30	1022.39	0.00	0.00
100.00		203.12	656.01	0.00	0.00
102.00		201.89	386.93	0.00	0.00
104.00		200.62	383.74	0.00	0.00
106.00		199.30	380.55	0.00	0.00
108.00		197.95	377.36	0.00	0.00
110.00	(2) attachments	399.86	441.38	0.00	543.56
112.00		195.13	369.74	0.00	0.00
114.00		193.66	366.55	0.00	0.00
115.00		96.15	182.08	0.00	0.00
116.00		95.77	157.02	0.00	0.00
118.00		190.62	312.12	0.00	0.00
120.00		189.04	309.57	0.00	0.00
122.00		187.43	307.02	0.00	0.00
124.00		185.79	304.47	0.00	0.00
126.00		184.11	301.91	0.00	0.00
128.00		182.40	299.36	0.00	0.00
130.00		180.66	296.81	0.00	0.00
131.75	(3) attachments	495.85	574.42	0.00	0.00
132.00		22.22	36.64	0.00	0.00
133.00	(29) attachments	4064.09	5369.94	0.00	0.00
134.00		88.22	129.55	0.00	0.00
134.75	(3) attachments	346.75	334.71	0.00	0.00
136.00		109.23	160.45	0.00	0.00
138.00		173.38	254.64	0.00	0.00
140.00		171.49	252.09	0.00	0.00
142.00	(25) attachments	5841.93	5686.02	0.00	0.00
144.00		167.62	214.86	0.00	0.00
145.00		82.99	106.47	0.00	0.00
146.00		50.34	103.93	0.00	0.00
148.00		99.85	205.99	0.00	0.00
150.00		98.62	203.50	0.00	0.00
152.00	(11) attachments	2832.39	2985.68	0.00	0.00
154.00		72.42	149.98	0.00	0.00
156.00		72.69	149.98	0.00	0.00
158.00		72.95	149.98	0.00	0.00
160.00	(26) attachments	5136.78	3069.22	0.00	10433.25
Totals:		33,650.15	78,471.14	0.00	10,976.81

Linear Appurtenance Segment Forces (Factored)

Structure: CT02049-S-SBA	Code: TIA-222-H	11/17/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



Load Case: 1.2D + 1.0W 120 mph Wind

Dead Load Factor 1.20
Wind Load Factor 1.00



Iterations 27

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
1.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.17	0.00	0.108	1.023	23.966	0.00	2.64
1.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.108	1.023	23.966	0.00	0.62
1.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.108	1.023	23.966	0.00	2.39
1.00	1 5/8" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.108	1.023	23.966	0.00	2.64
1.00	1-1/4" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.108	1.023	23.966	0.00	2.29
1.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.108	1.023	23.966	0.00	0.62
1.00	1" Reinforcing plate	Yes	1.00	0.000	1.00	0.08	0.00	0.108	1.023	23.966	0.00	144.00
1.00	C10x15.3	Yes	1.00	0.000	2.60	0.22	0.00	0.108	1.023	23.966	0.00	216.00
2.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.17	0.00	0.108	1.024	23.966	0.00	2.64
2.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.108	1.024	23.966	0.00	0.62
2.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.108	1.024	23.966	0.00	2.39
2.00	1 5/8" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.108	1.024	23.966	0.00	2.64
2.00	1-1/4" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.108	1.024	23.966	0.00	2.29
2.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.108	1.024	23.966	0.00	0.62
2.00	1" Reinforcing plate	Yes	1.00	0.000	1.00	0.08	0.00	0.108	1.024	23.966	0.00	144.00
2.00	C10x15.3	Yes	1.00	0.000	2.60	0.22	0.00	0.108	1.024	23.966	0.00	216.00
4.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.109	1.026	23.966	0.00	5.28
4.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.109	1.026	23.966	0.00	1.25
4.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.109	1.026	23.966	0.00	4.78
4.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.109	1.026	23.966	0.00	5.28
4.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.109	1.026	23.966	0.00	4.58
4.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.109	1.026	23.966	0.00	1.25
4.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.17	0.00	0.109	1.026	23.966	0.00	288.00
4.00	C10x15.3	Yes	2.00	0.000	2.60	0.43	0.00	0.109	1.026	23.966	0.00	432.00
6.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.109	1.028	23.966	0.00	5.28
6.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.109	1.028	23.966	0.00	1.25
6.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.109	1.028	23.966	0.00	4.78
6.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.109	1.028	23.966	0.00	5.28
6.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.109	1.028	23.966	0.00	4.58
6.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.109	1.028	23.966	0.00	1.25
6.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.17	0.00	0.109	1.028	23.966	0.00	288.00
6.00	C10x15.3	Yes	2.00	0.000	2.60	0.43	0.00	0.109	1.028	23.966	0.00	432.00
8.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.110	1.031	23.966	0.00	5.28
8.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.110	1.031	23.966	0.00	1.25
8.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.110	1.031	23.966	0.00	4.78
8.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.110	1.031	23.966	0.00	5.28
8.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.110	1.031	23.966	0.00	4.58
8.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.110	1.031	23.966	0.00	1.25
8.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.17	0.00	0.110	1.031	23.966	0.00	288.00
8.00	C10x15.3	Yes	2.00	0.000	2.60	0.43	0.00	0.110	1.031	23.966	0.00	432.00
10.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.111	1.034	23.966	0.00	5.28
10.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.111	1.034	23.966	0.00	1.25
10.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.111	1.034	23.966	0.00	4.78
10.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.111	1.034	23.966	0.00	5.28
10.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.111	1.034	23.966	0.00	4.58
10.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.111	1.034	23.966	0.00	1.25
10.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.17	0.00	0.111	1.034	23.966	0.00	288.00

Linear Appurtenance Segment Forces (Factored)

Structure: CT02049-S-SBA	Code: TIA-222-H	11/17/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Load Case: 1.2D + 1.0W 120 mph Wind

Dead Load Factor 1.20
Wind Load Factor 1.00



Iterations 27

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
10.00	C10x15.3	Yes	2.00	0.000	2.60	0.43	0.00	0.111	1.034	23.966	0.00	432.00
12.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.112	1.036	23.966	0.00	5.28
12.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.112	1.036	23.966	0.00	1.25
12.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.112	1.036	23.966	0.00	4.78
12.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.112	1.036	23.966	0.00	5.28
12.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.112	1.036	23.966	0.00	4.58
12.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.112	1.036	23.966	0.00	1.25
12.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.17	0.00	0.112	1.036	23.966	0.00	288.00
12.00	C10x15.3	Yes	2.00	0.000	2.60	0.43	0.00	0.112	1.036	23.966	0.00	432.00
14.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.113	1.039	23.966	0.00	5.28
14.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.113	1.039	23.966	0.00	1.25
14.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.113	1.039	23.966	0.00	4.78
14.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.113	1.039	23.966	0.00	5.28
14.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.113	1.039	23.966	0.00	4.58
14.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.113	1.039	23.966	0.00	1.25
14.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.17	0.00	0.113	1.039	23.966	0.00	288.00
14.00	C10x15.3	Yes	2.00	0.000	2.60	0.43	0.00	0.113	1.039	23.966	0.00	432.00
16.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.114	1.042	23.966	0.00	5.28
16.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.114	1.042	23.966	0.00	1.25
16.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.114	1.042	23.966	0.00	4.78
16.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.114	1.042	23.966	0.00	5.28
16.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.114	1.042	23.966	0.00	4.58
16.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.114	1.042	23.966	0.00	1.25
16.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.17	0.00	0.114	1.042	23.966	0.00	288.00
16.00	C10x15.3	Yes	2.00	0.000	2.60	0.43	0.00	0.114	1.042	23.966	0.00	432.00
16.25	1 5/8" Hybrid	Yes	0.25	0.000	2.00	0.04	0.00	0.114	1.043	23.966	0.00	0.66
16.25	7/8" Coax	Yes	0.25	0.000	0.00	0.00	0.00	0.114	1.043	23.966	0.00	0.16
16.25	1.75" Hybrid	Yes	0.25	0.000	0.00	0.00	0.00	0.114	1.043	23.966	0.00	0.60
16.25	1 5/8" Fiber	Yes	0.25	0.000	0.00	0.00	0.00	0.114	1.043	23.966	0.00	0.66
16.25	1-1/4" Fiber	Yes	0.25	0.000	0.00	0.00	0.00	0.114	1.043	23.966	0.00	0.57
16.25	7/8" Coax	Yes	0.25	0.000	0.00	0.00	0.00	0.114	1.043	23.966	0.00	0.16
16.25	1" Reinforcing plate	Yes	0.25	0.000	1.00	0.02	0.00	0.114	1.043	23.966	0.00	36.00
16.25	C10x15.3	Yes	0.25	0.000	2.60	0.05	0.00	0.114	1.043	23.966	0.00	54.00
18.00	1 5/8" Hybrid	Yes	1.75	0.000	2.00	0.29	0.00	0.115	1.045	23.966	0.00	4.62
18.00	7/8" Coax	Yes	1.75	0.000	0.00	0.00	0.00	0.115	1.045	23.966	0.00	1.09
18.00	1.75" Hybrid	Yes	1.75	0.000	0.00	0.00	0.00	0.115	1.045	23.966	0.00	4.18
18.00	1 5/8" Fiber	Yes	1.75	0.000	0.00	0.00	0.00	0.115	1.045	23.966	0.00	4.62
18.00	1-1/4" Fiber	Yes	1.75	0.000	0.00	0.00	0.00	0.115	1.045	23.966	0.00	4.01
18.00	7/8" Coax	Yes	1.75	0.000	0.00	0.00	0.00	0.115	1.045	23.966	0.00	1.09
18.00	1" Reinforcing plate	Yes	1.75	0.000	1.00	0.15	0.00	0.115	1.045	23.966	0.00	252.00
18.00	C10x15.3	Yes	1.75	0.000	2.60	0.38	0.00	0.115	1.045	23.966	0.00	378.00
18.63	1 5/8" Hybrid	Yes	0.63	0.000	2.00	0.10	0.00	0.116	1.047	23.966	0.00	1.66
18.63	7/8" Coax	Yes	0.63	0.000	0.00	0.00	0.00	0.116	1.047	23.966	0.00	0.39
18.63	1.75" Hybrid	Yes	0.63	0.000	0.00	0.00	0.00	0.116	1.047	23.966	0.00	1.51
18.63	1 5/8" Fiber	Yes	0.63	0.000	0.00	0.00	0.00	0.116	1.047	23.966	0.00	1.66
18.63	1-1/4" Fiber	Yes	0.63	0.000	0.00	0.00	0.00	0.116	1.047	23.966	0.00	1.44
18.63	7/8" Coax	Yes	0.63	0.000	0.00	0.00	0.00	0.116	1.047	23.966	0.00	0.39

Linear Appurtenance Segment Forces (Factored)

Structure: CT02049-S-SBA	Code: TIA-222-H	11/17/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II

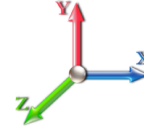


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Load Case: 1.2D + 1.0W 120 mph Wind

Iterations 27

Dead Load Factor 1.20
Wind Load Factor 1.00



Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
18.63	1" Reinforcing plate	Yes	0.63	0.000	1.00	0.05	0.00	0.116	1.047	23.966	0.00	90.72
18.63	C10x15.3	Yes	0.63	0.000	2.60	0.14	0.00	0.116	1.047	23.966	0.00	136.08
18.88	1 5/8" Hybrid	Yes	0.25	0.000	2.00	0.04	0.00	0.116	1.047	23.966	0.00	0.66
18.88	7/8" Coax	Yes	0.25	0.000	0.00	0.00	0.00	0.116	1.047	23.966	0.00	0.16
18.88	1.75" Hybrid	Yes	0.25	0.000	0.00	0.00	0.00	0.116	1.047	23.966	0.00	0.60
18.88	1 5/8" Fiber	Yes	0.25	0.000	0.00	0.00	0.00	0.116	1.047	23.966	0.00	0.66
18.88	1-1/4" Fiber	Yes	0.25	0.000	0.00	0.00	0.00	0.116	1.047	23.966	0.00	0.57
18.88	7/8" Coax	Yes	0.25	0.000	0.00	0.00	0.00	0.116	1.047	23.966	0.00	0.16
18.88	1" Reinforcing plate	Yes	0.25	0.000	1.00	0.02	0.00	0.116	1.047	23.966	0.00	36.00
18.88	C10x15.3	Yes	0.25	0.000	2.60	0.05	0.00	0.116	1.047	23.966	0.00	54.00
20.00	1 5/8" Hybrid	Yes	1.12	0.000	2.00	0.19	0.00	0.116	1.048	23.966	0.00	2.96
20.00	7/8" Coax	Yes	1.12	0.000	0.00	0.00	0.00	0.116	1.048	23.966	0.00	0.70
20.00	1.75" Hybrid	Yes	1.12	0.000	0.00	0.00	0.00	0.116	1.048	23.966	0.00	2.68
20.00	1 5/8" Fiber	Yes	1.12	0.000	0.00	0.00	0.00	0.116	1.048	23.966	0.00	2.96
20.00	1-1/4" Fiber	Yes	1.12	0.000	0.00	0.00	0.00	0.116	1.048	23.966	0.00	2.56
20.00	7/8" Coax	Yes	1.12	0.000	0.00	0.00	0.00	0.116	1.048	23.966	0.00	0.70
20.00	1" Reinforcing plate	Yes	1.12	0.000	1.00	0.09	0.00	0.116	1.048	23.966	0.00	161.28
20.00	C10x15.3	Yes	1.12	0.000	2.60	0.24	0.00	0.116	1.048	23.966	0.00	241.92
22.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.117	1.050	23.966	0.00	5.28
22.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.117	1.050	23.966	0.00	1.25
22.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.117	1.050	23.966	0.00	4.78
22.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.117	1.050	23.966	0.00	5.28
22.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.117	1.050	23.966	0.00	4.58
22.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.117	1.050	23.966	0.00	1.25
22.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.17	0.00	0.117	1.050	23.966	0.00	288.00
22.00	C10x15.3	Yes	2.00	0.000	2.60	0.43	0.00	0.117	1.050	23.966	0.00	432.00
24.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.116	1.048	23.966	0.00	5.28
24.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.116	1.048	23.966	0.00	1.25
24.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.116	1.048	23.966	0.00	4.78
24.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.116	1.048	23.966	0.00	5.28
24.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.116	1.048	23.966	0.00	4.58
24.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.116	1.048	23.966	0.00	1.25
24.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.17	0.00	0.116	1.048	23.966	0.00	288.00
24.00	C10x15.3	Yes	2.00	0.000	2.60	0.43	0.00	0.116	1.048	23.966	0.00	432.00
26.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.117	1.051	23.966	0.00	5.28
26.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.117	1.051	23.966	0.00	1.25
26.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.117	1.051	23.966	0.00	4.78
26.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.117	1.051	23.966	0.00	5.28
26.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.117	1.051	23.966	0.00	4.58
26.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.117	1.051	23.966	0.00	1.25
26.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.17	0.00	0.117	1.051	23.966	0.00	288.00
26.00	C10x15.3	Yes	2.00	0.000	2.60	0.43	0.00	0.117	1.051	23.966	0.00	432.00
28.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.118	1.054	23.966	0.00	5.28
28.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.118	1.054	23.966	0.00	1.25
28.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.118	1.054	23.966	0.00	4.78
28.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.118	1.054	23.966	0.00	5.28
28.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.118	1.054	23.966	0.00	4.58

Linear Appurtenance Segment Forces (Factored)

Structure: CT02049-S-SBA	Code: TIA-222-H	11/17/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Load Case: 1.2D + 1.0W 120 mph Wind

Dead Load Factor 1.20
Wind Load Factor 1.00



Iterations 27

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
28.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.118	1.054	23.966	0.00	1.25
28.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.17	0.00	0.118	1.054	23.966	0.00	288.00
28.00	C10x15.3	Yes	2.00	0.000	2.60	0.43	0.00	0.118	1.054	23.966	0.00	432.00
30.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.145	1.136	23.986	0.00	5.28
30.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.145	1.136	23.986	0.00	1.25
30.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.145	1.136	23.986	0.00	4.78
30.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.145	1.136	23.986	0.00	5.28
30.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.145	1.136	23.986	0.00	4.58
30.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.145	1.136	23.986	0.00	1.25
30.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.145	1.136	23.986	0.00	360.00
30.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.17	0.00	0.145	1.136	23.986	0.00	288.00
30.00	C10x15.3	Yes	2.00	0.000	2.60	0.43	0.00	0.145	1.136	23.986	0.00	432.00
31.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.17	0.00	0.146	1.139	24.212	0.00	2.64
31.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.146	1.139	24.212	0.00	0.62
31.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.146	1.139	24.212	0.00	2.39
31.00	1 5/8" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.146	1.139	24.212	0.00	2.64
31.00	1-1/4" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.146	1.139	24.212	0.00	2.29
31.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.146	1.139	24.212	0.00	0.62
31.00	1.25" Reinforcing	Yes	1.00	0.000	1.25	0.10	0.00	0.146	1.139	24.212	0.00	180.00
31.00	1" Reinforcing plate	Yes	1.00	0.000	1.00	0.08	0.00	0.146	1.139	24.212	0.00	144.00
31.00	C10x15.3	Yes	1.00	0.000	2.60	0.22	0.00	0.146	1.139	24.212	0.00	216.00
32.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.17	0.00	0.147	1.141	24.433	0.00	2.64
32.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.147	1.141	24.433	0.00	0.62
32.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.147	1.141	24.433	0.00	2.39
32.00	1 5/8" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.147	1.141	24.433	0.00	2.64
32.00	1-1/4" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.147	1.141	24.433	0.00	2.29
32.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.147	1.141	24.433	0.00	0.62
32.00	1.25" Reinforcing	Yes	1.00	0.000	1.25	0.10	0.00	0.147	1.141	24.433	0.00	180.00
32.00	1" Reinforcing plate	Yes	1.00	0.000	1.00	0.08	0.00	0.147	1.141	24.433	0.00	144.00
32.00	C10x15.3	Yes	1.00	0.000	2.60	0.22	0.00	0.147	1.141	24.433	0.00	216.00
33.38	1 5/8" Hybrid	Yes	1.38	0.000	2.00	0.23	0.00	0.070	0.000	24.729	0.00	3.64
33.38	7/8" Coax	Yes	1.38	0.000	0.00	0.00	0.00	0.070	0.000	24.729	0.00	0.86
33.38	1.75" Hybrid	Yes	1.38	0.000	0.00	0.00	0.00	0.070	0.000	24.729	0.00	3.30
33.38	1 5/8" Fiber	Yes	1.38	0.000	0.00	0.00	0.00	0.070	0.000	24.729	0.00	3.64
33.38	1-1/4" Fiber	Yes	1.38	0.000	0.00	0.00	0.00	0.070	0.000	24.729	0.00	3.16
33.38	7/8" Coax	Yes	1.38	0.000	0.00	0.00	0.00	0.070	0.000	24.729	0.00	0.86
33.38	1.25" Reinforcing	Yes	1.38	0.000	1.25	0.14	0.00	0.070	0.000	24.729	0.00	248.40
34.00	1 5/8" Hybrid	Yes	0.62	0.000	2.00	0.10	0.00	0.070	0.000	24.859	0.00	1.64
34.00	7/8" Coax	Yes	0.62	0.000	0.00	0.00	0.00	0.070	0.000	24.859	0.00	0.39
34.00	1.75" Hybrid	Yes	0.62	0.000	0.00	0.00	0.00	0.070	0.000	24.859	0.00	1.48
34.00	1 5/8" Fiber	Yes	0.62	0.000	0.00	0.00	0.00	0.070	0.000	24.859	0.00	1.64
34.00	1-1/4" Fiber	Yes	0.62	0.000	0.00	0.00	0.00	0.070	0.000	24.859	0.00	1.42
34.00	7/8" Coax	Yes	0.62	0.000	0.00	0.00	0.00	0.070	0.000	24.859	0.00	0.39
34.00	1.25" Reinforcing	Yes	0.62	0.000	1.25	0.06	0.00	0.070	0.000	24.859	0.00	111.60
36.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.071	0.000	25.269	0.00	5.28
36.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.071	0.000	25.269	0.00	1.25
36.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.071	0.000	25.269	0.00	4.78

Linear Appurtenance Segment Forces (Factored)

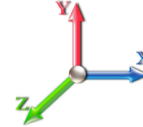
Structure: CT02049-S-SBA	Code: TIA-222-H	11/17/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



Load Case: 1.2D + 1.0W 120 mph Wind

Iterations 27

Dead Load Factor 1.20
Wind Load Factor 1.00



Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
36.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.071	0.000	25.269	0.00	5.28
36.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.071	0.000	25.269	0.00	4.58
36.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.071	0.000	25.269	0.00	1.25
36.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.071	0.000	25.269	0.00	360.00
38.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.071	0.000	25.662	0.00	5.28
38.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.071	0.000	25.662	0.00	1.25
38.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.071	0.000	25.662	0.00	4.78
38.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.071	0.000	25.662	0.00	5.28
38.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.071	0.000	25.662	0.00	4.58
38.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.071	0.000	25.662	0.00	1.25
38.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.071	0.000	25.662	0.00	360.00
40.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.072	0.000	26.041	0.00	5.28
40.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.072	0.000	26.041	0.00	1.25
40.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.072	0.000	26.041	0.00	4.78
40.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.072	0.000	26.041	0.00	5.28
40.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.072	0.000	26.041	0.00	4.58
40.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.072	0.000	26.041	0.00	1.25
40.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.072	0.000	26.041	0.00	360.00
42.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.073	0.000	26.407	0.00	5.28
42.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	26.407	0.00	1.25
42.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	26.407	0.00	4.78
42.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	26.407	0.00	5.28
42.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	26.407	0.00	4.58
42.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	26.407	0.00	1.25
42.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.073	0.000	26.407	0.00	360.00
44.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.073	0.000	26.760	0.00	5.28
44.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	26.760	0.00	1.25
44.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	26.760	0.00	4.78
44.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	26.760	0.00	5.28
44.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	26.760	0.00	4.58
44.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	26.760	0.00	1.25
44.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.073	0.000	26.760	0.00	360.00
45.16	1 5/8" Hybrid	Yes	1.16	0.000	2.00	0.19	0.00	0.074	0.000	26.960	0.00	3.06
45.16	7/8" Coax	Yes	1.16	0.000	0.00	0.00	0.00	0.074	0.000	26.960	0.00	0.72
45.16	1.75" Hybrid	Yes	1.16	0.000	0.00	0.00	0.00	0.074	0.000	26.960	0.00	2.77
45.16	1 5/8" Fiber	Yes	1.16	0.000	0.00	0.00	0.00	0.074	0.000	26.960	0.00	3.06
45.16	1-1/4" Fiber	Yes	1.16	0.000	0.00	0.00	0.00	0.074	0.000	26.960	0.00	2.66
45.16	7/8" Coax	Yes	1.16	0.000	0.00	0.00	0.00	0.074	0.000	26.960	0.00	0.72
45.16	1.25" Reinforcing	Yes	1.16	0.000	1.25	0.12	0.00	0.074	0.000	26.960	0.00	208.80
46.00	1 5/8" Hybrid	Yes	0.84	0.000	2.00	0.14	0.00	0.074	0.000	27.102	0.00	2.22
46.00	7/8" Coax	Yes	0.84	0.000	0.00	0.00	0.00	0.074	0.000	27.102	0.00	0.52
46.00	1.75" Hybrid	Yes	0.84	0.000	0.00	0.00	0.00	0.074	0.000	27.102	0.00	2.01
46.00	1 5/8" Fiber	Yes	0.84	0.000	0.00	0.00	0.00	0.074	0.000	27.102	0.00	2.22
46.00	1-1/4" Fiber	Yes	0.84	0.000	0.00	0.00	0.00	0.074	0.000	27.102	0.00	1.92
46.00	7/8" Coax	Yes	0.84	0.000	0.00	0.00	0.00	0.074	0.000	27.102	0.00	0.52
46.00	1.25" Reinforcing	Yes	0.84	0.000	1.25	0.09	0.00	0.074	0.000	27.102	0.00	151.20
48.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.075	0.000	27.433	0.00	5.28

Linear Appurtenance Segment Forces (Factored)

Structure: CT02049-S-SBA	Code: TIA-222-H	11/17/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



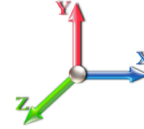
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Load Case: 1.2D + 1.0W 120 mph Wind

Iterations 27

Dead Load Factor 1.20

Wind Load Factor 1.00



Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
48.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	27.433	0.00	1.25
48.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	27.433	0.00	4.78
48.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	27.433	0.00	5.28
48.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	27.433	0.00	4.58
48.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	27.433	0.00	1.25
48.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.075	0.000	27.433	0.00	360.00
50.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.075	0.000	27.755	0.00	5.28
50.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	27.755	0.00	1.25
50.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	27.755	0.00	4.78
50.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	27.755	0.00	5.28
50.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	27.755	0.00	4.58
50.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	27.755	0.00	1.25
50.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.075	0.000	27.755	0.00	360.00
52.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.076	0.000	28.068	0.00	5.28
52.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.076	0.000	28.068	0.00	1.25
52.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.076	0.000	28.068	0.00	4.78
52.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.076	0.000	28.068	0.00	5.28
52.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.076	0.000	28.068	0.00	4.58
52.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.076	0.000	28.068	0.00	1.25
52.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.076	0.000	28.068	0.00	360.00
54.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.077	0.000	28.372	0.00	5.28
54.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	28.372	0.00	1.25
54.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	28.372	0.00	4.78
54.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	28.372	0.00	5.28
54.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	28.372	0.00	4.58
54.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	28.372	0.00	1.25
54.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.077	0.000	28.372	0.00	360.00
56.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.078	0.000	28.669	0.00	5.28
56.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	28.669	0.00	1.25
56.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	28.669	0.00	4.78
56.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	28.669	0.00	5.28
56.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	28.669	0.00	4.58
56.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	28.669	0.00	1.25
56.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.078	0.000	28.669	0.00	360.00
58.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.077	0.000	28.958	0.00	5.28
58.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	28.958	0.00	1.25
58.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	28.958	0.00	4.78
58.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	28.958	0.00	5.28
58.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	28.958	0.00	4.58
58.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	28.958	0.00	1.25
58.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.077	0.000	28.958	0.00	360.00
60.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.078	0.000	29.239	0.00	5.28
60.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	29.239	0.00	1.25
60.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	29.239	0.00	4.78
60.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	29.239	0.00	5.28
60.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	29.239	0.00	4.58
60.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	29.239	0.00	1.25

Linear Appurtenance Segment Forces (Factored)

Structure: CT02049-S-SBA	Code: TIA-222-H	11/17/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Load Case: 1.2D + 1.0W 120 mph Wind

Dead Load Factor 1.20
Wind Load Factor 1.00



Iterations 27

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
60.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.078	0.000	29.239	0.00	360.00
62.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.078	0.000	29.515	0.00	5.28
62.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	29.515	0.00	1.25
62.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	29.515	0.00	4.78
62.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	29.515	0.00	5.28
62.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	29.515	0.00	4.58
62.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	29.515	0.00	1.25
62.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.078	0.000	29.515	0.00	360.00
64.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.079	0.000	29.784	0.00	5.28
64.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.079	0.000	29.784	0.00	1.25
64.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.079	0.000	29.784	0.00	4.78
64.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.079	0.000	29.784	0.00	5.28
64.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.079	0.000	29.784	0.00	4.58
64.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.079	0.000	29.784	0.00	1.25
64.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.079	0.000	29.784	0.00	360.00
66.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.080	0.000	30.047	0.00	5.28
66.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.080	0.000	30.047	0.00	1.25
66.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.080	0.000	30.047	0.00	4.78
66.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.080	0.000	30.047	0.00	5.28
66.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.080	0.000	30.047	0.00	4.58
66.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.080	0.000	30.047	0.00	1.25
66.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.080	0.000	30.047	0.00	360.00
68.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.081	0.000	30.304	0.00	5.28
68.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.081	0.000	30.304	0.00	1.25
68.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.081	0.000	30.304	0.00	4.78
68.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.081	0.000	30.304	0.00	5.28
68.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.081	0.000	30.304	0.00	4.58
68.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.081	0.000	30.304	0.00	1.25
68.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.081	0.000	30.304	0.00	360.00
70.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.082	0.000	30.556	0.00	5.28
70.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.082	0.000	30.556	0.00	1.25
70.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.082	0.000	30.556	0.00	4.78
70.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.082	0.000	30.556	0.00	5.28
70.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.082	0.000	30.556	0.00	4.58
70.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.082	0.000	30.556	0.00	1.25
70.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.082	0.000	30.556	0.00	360.00
72.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.082	0.000	30.803	0.00	5.28
72.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.082	0.000	30.803	0.00	1.25
72.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.082	0.000	30.803	0.00	4.78
72.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.082	0.000	30.803	0.00	5.28
72.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.082	0.000	30.803	0.00	4.58
72.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.082	0.000	30.803	0.00	1.25
72.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.082	0.000	30.803	0.00	360.00
74.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.083	0.000	31.045	0.00	5.28
74.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.083	0.000	31.045	0.00	1.25
74.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.083	0.000	31.045	0.00	4.78
74.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.083	0.000	31.045	0.00	5.28

Linear Appurtenance Segment Forces (Factored)

Structure: CT02049-S-SBA	Code: TIA-222-H	11/17/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



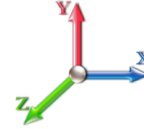
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Load Case: 1.2D + 1.0W 120 mph Wind

Iterations 27

Dead Load Factor 1.20

Wind Load Factor 1.00



Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
74.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.083	0.000	31.045	0.00	4.58
74.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.083	0.000	31.045	0.00	1.25
74.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.083	0.000	31.045	0.00	360.00
76.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.084	0.000	31.283	0.00	5.28
76.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.084	0.000	31.283	0.00	1.25
76.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.084	0.000	31.283	0.00	4.78
76.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.084	0.000	31.283	0.00	5.28
76.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.084	0.000	31.283	0.00	4.58
76.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.084	0.000	31.283	0.00	1.25
76.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.084	0.000	31.283	0.00	360.00
78.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.085	0.000	31.516	0.00	5.28
78.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.085	0.000	31.516	0.00	1.25
78.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.085	0.000	31.516	0.00	4.78
78.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.085	0.000	31.516	0.00	5.28
78.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.085	0.000	31.516	0.00	4.58
78.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.085	0.000	31.516	0.00	1.25
78.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.085	0.000	31.516	0.00	360.00
80.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.086	0.000	31.744	0.00	5.28
80.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.086	0.000	31.744	0.00	1.25
80.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.086	0.000	31.744	0.00	4.78
80.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.086	0.000	31.744	0.00	5.28
80.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.086	0.000	31.744	0.00	4.58
80.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.086	0.000	31.744	0.00	1.25
80.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.086	0.000	31.744	0.00	360.00
82.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.087	0.000	31.969	0.00	5.28
82.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.087	0.000	31.969	0.00	1.25
82.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.087	0.000	31.969	0.00	4.78
82.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.087	0.000	31.969	0.00	5.28
82.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.087	0.000	31.969	0.00	4.58
82.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.087	0.000	31.969	0.00	1.25
82.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.087	0.000	31.969	0.00	360.00
84.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.088	0.000	32.190	0.00	5.28
84.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.088	0.000	32.190	0.00	1.25
84.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.088	0.000	32.190	0.00	4.78
84.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.088	0.000	32.190	0.00	5.28
84.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.088	0.000	32.190	0.00	4.58
84.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.088	0.000	32.190	0.00	1.25
84.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.088	0.000	32.190	0.00	360.00
86.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.089	0.000	32.407	0.00	5.28
86.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.089	0.000	32.407	0.00	1.25
86.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.089	0.000	32.407	0.00	4.78
86.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.089	0.000	32.407	0.00	5.28
86.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.089	0.000	32.407	0.00	4.58
86.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.089	0.000	32.407	0.00	1.25
86.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.089	0.000	32.407	0.00	360.00
88.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.090	0.000	32.621	0.00	5.28
88.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.090	0.000	32.621	0.00	1.25

Linear Appurtenance Segment Forces (Factored)

Structure: CT02049-S-SBA	Code: TIA-222-H	11/17/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



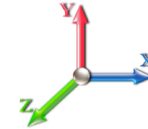
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Load Case: 1.2D + 1.0W 120 mph Wind

Iterations 27

Dead Load Factor 1.20

Wind Load Factor 1.00



Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
88.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.090	0.000	32.621	0.00	4.78
88.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.090	0.000	32.621	0.00	5.28
88.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.090	0.000	32.621	0.00	4.58
88.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.090	0.000	32.621	0.00	1.25
88.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.090	0.000	32.621	0.00	360.00
90.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.091	0.000	32.831	0.00	5.28
90.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.091	0.000	32.831	0.00	1.25
90.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.091	0.000	32.831	0.00	4.78
90.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.091	0.000	32.831	0.00	5.28
90.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.091	0.000	32.831	0.00	4.58
90.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.091	0.000	32.831	0.00	1.25
90.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.091	0.000	32.831	0.00	360.00
92.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.092	0.000	33.038	0.00	5.28
92.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.092	0.000	33.038	0.00	1.25
92.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.092	0.000	33.038	0.00	4.78
92.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.092	0.000	33.038	0.00	5.28
92.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.092	0.000	33.038	0.00	4.58
92.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.092	0.000	33.038	0.00	1.25
92.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.092	0.000	33.038	0.00	360.00
94.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.093	0.000	33.241	0.00	5.28
94.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.093	0.000	33.241	0.00	1.25
94.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.093	0.000	33.241	0.00	4.78
94.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.093	0.000	33.241	0.00	5.28
94.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.093	0.000	33.241	0.00	4.58
94.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.093	0.000	33.241	0.00	1.25
94.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.093	0.000	33.241	0.00	360.00
95.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.17	0.00	0.094	0.000	33.342	0.00	2.64
95.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.094	0.000	33.342	0.00	0.62
95.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.094	0.000	33.342	0.00	2.39
95.00	1 5/8" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.094	0.000	33.342	0.00	2.64
95.00	1-1/4" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.094	0.000	33.342	0.00	2.29
95.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.094	0.000	33.342	0.00	0.62
95.00	1.25" Reinforcing	Yes	1.00	0.000	1.25	0.10	0.00	0.094	0.000	33.342	0.00	180.00
95.58	1 5/8" Hybrid	Yes	0.58	0.000	2.00	0.10	0.00	0.094	0.000	33.400	0.00	1.53
95.58	7/8" Coax	Yes	0.58	0.000	0.00	0.00	0.00	0.094	0.000	33.400	0.00	0.36
95.58	1.75" Hybrid	Yes	0.58	0.000	0.00	0.00	0.00	0.094	0.000	33.400	0.00	1.39
95.58	1 5/8" Fiber	Yes	0.58	0.000	0.00	0.00	0.00	0.094	0.000	33.400	0.00	1.53
95.58	1-1/4" Fiber	Yes	0.58	0.000	0.00	0.00	0.00	0.094	0.000	33.400	0.00	1.33
95.58	7/8" Coax	Yes	0.58	0.000	0.00	0.00	0.00	0.094	0.000	33.400	0.00	0.36
95.58	1.25" Reinforcing	Yes	0.58	0.000	1.25	0.06	0.00	0.094	0.000	33.400	0.00	104.40
96.00	1 5/8" Hybrid	Yes	0.42	0.000	2.00	0.07	0.00	0.094	0.000	33.442	0.00	1.11
96.00	7/8" Coax	Yes	0.42	0.000	0.00	0.00	0.00	0.094	0.000	33.442	0.00	0.26
96.00	1.75" Hybrid	Yes	0.42	0.000	0.00	0.00	0.00	0.094	0.000	33.442	0.00	1.00
96.00	1 5/8" Fiber	Yes	0.42	0.000	0.00	0.00	0.00	0.094	0.000	33.442	0.00	1.11
96.00	1-1/4" Fiber	Yes	0.42	0.000	0.00	0.00	0.00	0.094	0.000	33.442	0.00	0.96
96.00	7/8" Coax	Yes	0.42	0.000	0.00	0.00	0.00	0.094	0.000	33.442	0.00	0.26
96.00	1.25" Reinforcing	Yes	0.42	0.000	1.25	0.04	0.00	0.094	0.000	33.442	0.00	75.60

Linear Appurtenance Segment Forces (Factored)

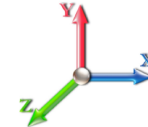
Structure: CT02049-S-SBA	Code: TIA-222-H	11/17/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Load Case: 1.2D + 1.0W 120 mph Wind

Dead Load Factor 1.20
Wind Load Factor 1.00



Iterations 27

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
98.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.095	0.000	33.639	0.00	5.28
98.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.095	0.000	33.639	0.00	1.25
98.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.095	0.000	33.639	0.00	4.78
98.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.095	0.000	33.639	0.00	5.28
98.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.095	0.000	33.639	0.00	4.58
98.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.095	0.000	33.639	0.00	1.25
98.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.095	0.000	33.639	0.00	360.00
100.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.059	0.000	33.834	0.00	5.28
100.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	33.834	0.00	1.25
100.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	33.834	0.00	4.78
100.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	33.834	0.00	5.28
100.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	33.834	0.00	4.58
100.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	33.834	0.00	1.25
102.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.059	0.000	34.026	0.00	5.28
102.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	34.026	0.00	1.25
102.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	34.026	0.00	4.78
102.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	34.026	0.00	5.28
102.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	34.026	0.00	4.58
102.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	34.026	0.00	1.25
104.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.059	0.000	34.215	0.00	5.28
104.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	34.215	0.00	1.25
104.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	34.215	0.00	4.78
104.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	34.215	0.00	5.28
104.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	34.215	0.00	4.58
104.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	34.215	0.00	1.25
106.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.060	0.000	34.402	0.00	5.28
106.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.060	0.000	34.402	0.00	1.25
106.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.060	0.000	34.402	0.00	4.78
106.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.060	0.000	34.402	0.00	5.28
106.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.060	0.000	34.402	0.00	4.58
106.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.060	0.000	34.402	0.00	1.25
108.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.061	0.000	34.586	0.00	5.28
108.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.061	0.000	34.586	0.00	1.25
108.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.061	0.000	34.586	0.00	4.78
108.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.061	0.000	34.586	0.00	5.28
108.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.061	0.000	34.586	0.00	4.58
108.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.061	0.000	34.586	0.00	1.25
110.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.062	0.000	34.768	0.00	5.28
110.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.062	0.000	34.768	0.00	1.25
110.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.062	0.000	34.768	0.00	4.78
110.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.062	0.000	34.768	0.00	5.28
110.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.062	0.000	34.768	0.00	4.58
110.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.062	0.000	34.768	0.00	1.25
112.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.062	0.000	34.948	0.00	5.28
112.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.062	0.000	34.948	0.00	1.25
112.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.062	0.000	34.948	0.00	4.78
112.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.062	0.000	34.948	0.00	5.28

Linear Appurtenance Segment Forces (Factored)

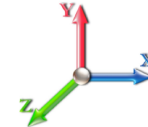
Structure: CT02049-S-SBA	Code: TIA-222-H	11/17/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Load Case: 1.2D + 1.0W 120 mph Wind

Dead Load Factor 1.20
Wind Load Factor 1.00



Iterations 27

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
112.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.062	0.000	34.948	0.00	4.58
114.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.063	0.000	35.125	0.00	5.28
114.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.063	0.000	35.125	0.00	1.25
114.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.063	0.000	35.125	0.00	4.78
114.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.063	0.000	35.125	0.00	5.28
114.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.063	0.000	35.125	0.00	4.58
115.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.17	0.00	0.064	0.000	35.213	0.00	2.64
115.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.064	0.000	35.213	0.00	0.62
115.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.064	0.000	35.213	0.00	2.39
115.00	1 5/8" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.064	0.000	35.213	0.00	2.64
115.00	1-1/4" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.064	0.000	35.213	0.00	2.29
116.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.17	0.00	0.064	0.000	35.300	0.00	2.64
116.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.064	0.000	35.300	0.00	0.62
116.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.064	0.000	35.300	0.00	2.39
116.00	1 5/8" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.064	0.000	35.300	0.00	2.64
116.00	1-1/4" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.064	0.000	35.300	0.00	2.29
118.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.065	0.000	35.473	0.00	5.28
118.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.065	0.000	35.473	0.00	1.25
118.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.065	0.000	35.473	0.00	4.78
118.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.065	0.000	35.473	0.00	5.28
118.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.065	0.000	35.473	0.00	4.58
120.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.066	0.000	35.643	0.00	5.28
120.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.066	0.000	35.643	0.00	1.25
120.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.066	0.000	35.643	0.00	4.78
120.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.066	0.000	35.643	0.00	5.28
120.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.066	0.000	35.643	0.00	4.58
122.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.067	0.000	35.812	0.00	5.28
122.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.067	0.000	35.812	0.00	1.25
122.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.067	0.000	35.812	0.00	4.78
122.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.067	0.000	35.812	0.00	5.28
122.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.067	0.000	35.812	0.00	4.58
124.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.067	0.000	35.979	0.00	5.28
124.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.067	0.000	35.979	0.00	1.25
124.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.067	0.000	35.979	0.00	4.78
124.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.067	0.000	35.979	0.00	5.28
124.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.067	0.000	35.979	0.00	4.58
126.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.068	0.000	36.144	0.00	5.28
126.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.068	0.000	36.144	0.00	1.25
126.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.068	0.000	36.144	0.00	4.78
126.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.068	0.000	36.144	0.00	5.28
126.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.068	0.000	36.144	0.00	4.58
128.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.069	0.000	36.307	0.00	5.28
128.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.069	0.000	36.307	0.00	1.25
128.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.069	0.000	36.307	0.00	4.78
128.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.069	0.000	36.307	0.00	5.28
128.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.069	0.000	36.307	0.00	4.58
130.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.070	0.000	36.468	0.00	5.28

Linear Appurtenance Segment Forces (Factored)

Structure: CT02049-S-SBA	Code: TIA-222-H	11/17/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



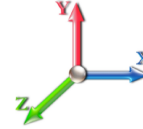
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Load Case: 1.2D + 1.0W 120 mph Wind

Iterations 27

Dead Load Factor 1.20

Wind Load Factor 1.00



Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
130.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.070	0.000	36.468	0.00	1.25
130.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.070	0.000	36.468	0.00	4.78
130.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.070	0.000	36.468	0.00	5.28
130.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.070	0.000	36.468	0.00	4.58
131.75	1 5/8" Hybrid	Yes	1.75	0.000	2.00	0.29	0.00	0.071	0.000	36.607	0.00	4.62
131.75	7/8" Coax	Yes	1.75	0.000	0.00	0.00	0.00	0.071	0.000	36.607	0.00	1.09
131.75	1.75" Hybrid	Yes	1.75	0.000	0.00	0.00	0.00	0.071	0.000	36.607	0.00	4.18
131.75	1 5/8" Fiber	Yes	1.75	0.000	0.00	0.00	0.00	0.071	0.000	36.607	0.00	4.62
131.75	1-1/4" Fiber	Yes	1.75	0.000	0.00	0.00	0.00	0.071	0.000	36.607	0.00	4.01
132.00	1 5/8" Hybrid	Yes	0.25	0.000	2.00	0.04	0.00	0.072	0.000	36.627	0.00	0.66
132.00	7/8" Coax	Yes	0.25	0.000	0.00	0.00	0.00	0.072	0.000	36.627	0.00	0.16
132.00	1.75" Hybrid	Yes	0.25	0.000	0.00	0.00	0.00	0.072	0.000	36.627	0.00	0.60
132.00	1 5/8" Fiber	Yes	0.25	0.000	0.00	0.00	0.00	0.072	0.000	36.627	0.00	0.66
132.00	1-1/4" Fiber	Yes	0.25	0.000	0.00	0.00	0.00	0.072	0.000	36.627	0.00	0.57
133.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.17	0.00	0.072	0.000	36.706	0.00	2.64
133.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.072	0.000	36.706	0.00	0.62
133.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.072	0.000	36.706	0.00	2.39
133.00	1 5/8" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.072	0.000	36.706	0.00	2.64
133.00	1-1/4" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.072	0.000	36.706	0.00	2.29
134.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.17	0.00	0.073	0.000	36.785	0.00	2.64
134.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.073	0.000	36.785	0.00	0.62
134.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.073	0.000	36.785	0.00	2.39
134.00	1 5/8" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.073	0.000	36.785	0.00	2.64
134.00	1-1/4" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.073	0.000	36.785	0.00	2.29
134.75	1 5/8" Hybrid	Yes	0.75	0.000	2.00	0.13	0.00	0.073	0.000	36.844	0.00	1.98
134.75	7/8" Coax	Yes	0.75	0.000	0.00	0.00	0.00	0.073	0.000	36.844	0.00	0.47
134.75	1.75" Hybrid	Yes	0.75	0.000	0.00	0.00	0.00	0.073	0.000	36.844	0.00	1.79
134.75	1 5/8" Fiber	Yes	0.75	0.000	0.00	0.00	0.00	0.073	0.000	36.844	0.00	1.98
134.75	1-1/4" Fiber	Yes	0.75	0.000	0.00	0.00	0.00	0.073	0.000	36.844	0.00	1.72
136.00	1 5/8" Hybrid	Yes	1.25	0.000	2.00	0.21	0.00	0.074	0.000	36.941	0.00	3.30
136.00	7/8" Coax	Yes	1.25	0.000	0.00	0.00	0.00	0.074	0.000	36.941	0.00	0.78
136.00	1.75" Hybrid	Yes	1.25	0.000	0.00	0.00	0.00	0.074	0.000	36.941	0.00	2.99
136.00	1 5/8" Fiber	Yes	1.25	0.000	0.00	0.00	0.00	0.074	0.000	36.941	0.00	3.30
136.00	1-1/4" Fiber	Yes	1.25	0.000	0.00	0.00	0.00	0.074	0.000	36.941	0.00	2.86
138.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.075	0.000	37.095	0.00	5.28
138.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	37.095	0.00	1.25
138.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	37.095	0.00	4.78
138.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	37.095	0.00	5.28
138.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	37.095	0.00	4.58
140.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.076	0.000	37.248	0.00	5.28
140.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.076	0.000	37.248	0.00	1.25
140.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.076	0.000	37.248	0.00	4.78
140.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.076	0.000	37.248	0.00	5.28
140.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.076	0.000	37.248	0.00	4.58
142.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.077	0.000	37.400	0.00	5.28
142.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	37.400	0.00	1.25
142.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	37.400	0.00	4.78

Linear Appurtenance Segment Forces (Factored)

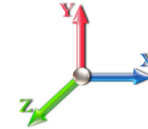
Structure: CT02049-S-SBA	Code: TIA-222-H	11/17/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Load Case: 1.2D + 1.0W 120 mph Wind

Dead Load Factor 1.20
Wind Load Factor 1.00



Iterations 27

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
142.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	37.400	0.00	5.28
142.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	37.400	0.00	4.58
144.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.078	0.000	37.549	0.00	5.28
144.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	37.549	0.00	1.25
144.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	37.549	0.00	4.78
145.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.17	0.00	0.079	0.000	37.624	0.00	2.64
145.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.079	0.000	37.624	0.00	0.62
145.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.079	0.000	37.624	0.00	2.39
146.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.17	0.00	0.082	0.000	37.698	0.00	2.64
146.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.082	0.000	37.698	0.00	0.62
146.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.082	0.000	37.698	0.00	2.39
148.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.083	0.000	37.844	0.00	5.28
148.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.083	0.000	37.844	0.00	1.25
148.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.083	0.000	37.844	0.00	4.78
150.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.085	0.000	37.990	0.00	5.28
150.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.085	0.000	37.990	0.00	1.25
150.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.085	0.000	37.990	0.00	4.78
152.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.125	1.075	38.134	0.00	5.28
152.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.125	1.075	38.134	0.00	1.25
152.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.125	1.075	38.134	0.00	4.78
154.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.125	1.075	38.276	0.00	5.28
154.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.125	1.075	38.276	0.00	1.25
156.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.125	1.075	38.418	0.00	5.28
156.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.125	1.075	38.418	0.00	1.25
158.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.125	1.075	38.558	0.00	5.28
158.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.125	1.075	38.558	0.00	1.25
160.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.125	1.075	38.697	0.00	5.28
160.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.125	1.075	38.697	0.00	1.25
Totals:											0.0	25,774.0

Calculated Forces

Structure: CT02049-S-SBA

Code: TIA-222-H

11/17/2022

Site Name: Beacon Falls

Exposure: B



Height: 160.00 (ft)

Crest Height: 0.00

Base Elev: 0.000 (ft)

Site Class: D - Stiff Soil

Gh: 1.1

Topography: 1

Struct Class: II

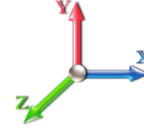
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Load Case: 1.2D + 1.0W 120 mph Wind

Iterations 27

Dead Load Factor 1.20

Wind Load Factor 1.00



Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-78.46	-33.67	0.00	-4032.5	0.00	4032.53	3683.82	1059.58	4414.92	3756.66	0.00	0.000	0.000	0.649
1.00	-77.77	-33.61	0.00	-3998.8	0.00	3998.86	3677.71	1055.47	4380.73	3735.77	0.00	-0.035	0.000	0.646
2.00	-77.08	-33.56	0.00	-3965.2	0.00	3965.25	3671.54	1051.36	4346.67	3714.86	0.01	-0.066	0.000	0.646
4.00	-75.71	-33.43	0.00	-3898.1	0.00	3898.13	3659.00	1043.14	4278.95	3673.00	0.06	-0.137	0.000	0.640
6.00	-74.35	-33.30	0.00	-3831.2	0.00	3831.26	3646.20	1034.91	4211.76	3631.09	0.13	-0.208	0.000	0.634
8.00	-72.99	-33.17	0.00	-3764.6	0.00	3764.65	3633.16	1026.69	4145.10	3589.13	0.23	-0.278	0.000	0.628
10.00	-71.63	-33.03	0.00	-3698.3	0.00	3698.32	3619.85	1018.47	4078.97	3547.13	0.37	-0.350	0.000	0.622
12.00	-70.28	-32.90	0.00	-3632.2	0.00	3632.25	3606.29	1010.25	4013.38	3505.10	0.53	-0.421	0.000	0.615
14.00	-68.94	-32.76	0.00	-3566.4	0.00	3566.46	3592.48	1002.02	3948.31	3463.03	0.72	-0.492	0.000	0.609
16.00	-67.61	-32.58	0.00	-3500.9	0.00	3500.95	3578.41	993.80	3883.78	3420.94	0.94	-0.564	0.000	0.603
16.25	-67.37	-32.59	0.00	-3492.8	0.00	3492.80	3576.63	992.77	3875.75	3415.68	0.97	-0.573	0.000	0.595
18.00	-65.81	-32.43	0.00	-3435.7	0.00	3435.78	3564.09	985.58	3819.78	3378.83	1.19	-0.626	0.000	0.685
18.63	-65.24	-32.37	0.00	-3415.3	0.00	3415.35	3559.52	982.99	3799.73	3365.57	1.28	-0.652	0.000	0.683
18.88	-65.01	-32.37	0.00	-3407.2	0.00	3407.26	3557.70	981.96	3791.79	3360.30	1.31	-0.661	0.000	0.555
20.00	-63.99	-32.30	0.00	-3371.0	0.00	3371.00	3549.51	977.36	3756.31	3336.71	1.47	-0.699	0.000	0.630
22.00	-62.20	-32.15	0.00	-3306.4	0.00	3306.40	3563.12	985.03	3815.51	3376.01	1.78	-0.776	0.000	0.639
24.00	-60.87	-32.00	0.00	-3242.1	0.00	3242.10	3548.52	976.81	3752.08	3333.89	2.12	-0.853	0.000	0.614
26.00	-59.54	-31.85	0.00	-3178.1	0.00	3178.10	3533.67	968.58	3689.18	3291.77	2.49	-0.928	0.000	0.607
28.00	-58.21	-31.69	0.00	-3114.4	0.00	3114.41	3518.56	960.36	3626.81	3249.64	2.90	-1.003	0.000	0.600
30.00	-56.54	-31.49	0.00	-3051.0	0.00	3051.02	3503.20	952.14	3564.97	3207.53	3.34	-1.078	0.000	0.593
31.00	-55.71	-31.39	0.00	-3019.5	0.00	3019.53	3495.43	948.03	3534.25	3186.48	3.56	-1.107	0.000	0.465
32.00	-54.87	-31.30	0.00	-2988.1	0.00	2988.14	3487.59	943.92	3503.66	3165.43	3.80	-1.137	0.000	0.537
33.38	-54.22	-31.18	0.00	-2944.9	0.00	2944.94	3476.66	938.24	3461.67	3136.39	4.14	-1.185	0.000	0.532
34.00	-53.91	-31.17	0.00	-2925.6	0.00	2925.61	3471.72	935.70	3442.89	3123.35	4.29	-1.206	0.000	0.659
36.00	-52.95	-31.02	0.00	-2863.2	0.00	2863.28	3455.59	927.47	3382.65	3081.29	4.81	-1.292	0.000	0.652
38.00	-52.00	-30.88	0.00	-2801.2	0.00	2801.23	3439.21	919.25	3322.94	3039.26	5.37	-1.378	0.000	0.645
40.00	-51.04	-30.70	0.00	-2739.4	0.00	2739.48	3422.57	911.03	3263.76	2997.28	5.97	-1.464	0.000	0.638
42.00	-50.10	-30.54	0.00	-2678.0	0.00	2678.08	3405.68	902.81	3205.11	2955.34	6.60	-1.550	0.000	0.630
44.00	-49.18	-30.37	0.00	-2617.0	0.00	2617.00	3388.54	894.58	3146.99	2913.44	7.27	-1.637	0.000	0.623
45.16	-48.64	-30.27	0.00	-2581.7	0.00	2581.76	3378.48	889.81	3113.53	2889.17	7.68	-1.687	0.000	0.618
46.00	-48.24	-30.21	0.00	-2556.3	0.00	2556.34	3371.14	886.36	3089.41	2871.61	7.97	-1.714	0.000	0.447
48.00	-47.32	-30.03	0.00	-2495.9	0.00	2495.92	3353.48	878.14	3032.36	2829.83	8.71	-1.777	0.000	0.576
50.00	-46.40	-29.86	0.00	-2435.8	0.00	2435.85	3335.57	869.92	2975.84	2788.13	9.47	-1.859	0.000	0.568
52.00	-45.08	-29.67	0.00	-2376.1	0.00	2376.13	3317.41	861.69	2919.85	2746.50	10.26	-1.941	0.000	0.554
54.00	-43.76	-29.48	0.00	-2316.7	0.00	2316.78	3298.98	853.47	2864.39	2704.94	11.09	-2.022	0.000	0.546
56.00	-42.45	-29.28	0.00	-2257.8	0.00	2257.82	3316.18	861.14	2916.12	2743.71	11.96	-2.102	0.000	0.552
58.00	-41.54	-29.08	0.00	-2199.2	0.00	2199.27	3297.74	852.92	2860.70	2702.16	12.86	-2.183	0.000	0.525
60.00	-40.64	-28.89	0.00	-2141.1	0.00	2141.10	3279.05	844.70	2805.81	2660.71	13.78	-2.244	0.000	0.562
62.00	-39.74	-28.70	0.00	-2083.3	0.00	2083.32	3260.10	836.48	2751.45	2619.34	14.74	-2.328	0.000	0.554
64.00	-38.84	-28.51	0.00	-2025.9	0.00	2025.92	3240.90	828.25	2697.62	2578.08	15.74	-2.413	0.000	0.545
66.00	-37.94	-28.32	0.00	-1968.9	0.00	1968.90	3221.44	820.03	2644.33	2536.92	16.76	-2.497	0.000	0.536
68.00	-37.06	-28.12	0.00	-1912.2	0.00	1912.27	3201.73	811.81	2591.56	2495.87	17.83	-2.581	0.000	0.528
70.00	-36.17	-27.92	0.00	-1856.0	0.00	1856.04	3181.76	803.59	2539.33	2454.94	18.93	-2.664	0.000	0.519
72.00	-35.29	-27.72	0.00	-1800.1	0.00	1800.19	3161.54	795.36	2487.63	2414.13	20.06	-2.748	0.000	0.510
74.00	-34.41	-27.52	0.00	-1744.7	0.00	1744.75	3141.06	787.14	2436.47	2373.45	21.23	-2.831	0.000	0.501
76.00	-33.54	-27.31	0.00	-1689.7	0.00	1689.72	3120.33	778.92	2385.83	2332.91	22.43	-2.914	0.000	0.491
78.00	-32.68	-27.10	0.00	-1635.0	0.00	1635.09	3099.34	770.70	2335.73	2292.51	23.67	-2.996	0.000	0.482
80.00	-31.82	-26.89	0.00	-1580.8	0.00	1580.89	3078.09	762.47	2286.15	2252.26	24.94	-3.058	0.000	0.473

Calculated Forces

Structure: CT02049-S-SBA	Code: TIA-222-H	11/17/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Page: 29
	Struct Class: II	



80.00	-31.82	-26.89	0.00	-1580.8	0.00	1580.89	2384.58	636.50	1911.75	1750.88	24.94	-3.058	0.000	0.510
82.00	-31.02	-26.69	0.00	-1527.1	0.00	1527.11	2370.62	629.65	1870.81	1721.73	26.24	-3.139	0.000	0.558
84.00	-30.22	-26.48	0.00	-1473.7	0.00	1473.74	2356.42	622.80	1830.32	1692.63	27.57	-3.230	0.000	0.546
86.00	-29.43	-26.28	0.00	-1420.7	0.00	1420.77	2341.95	615.94	1790.27	1663.57	28.94	-3.320	0.000	0.533
88.00	-28.64	-26.07	0.00	-1368.2	0.00	1368.21	2327.23	609.09	1750.66	1634.56	30.35	-3.409	0.000	0.520
90.00	-27.85	-25.87	0.00	-1316.0	0.00	1316.07	2312.26	602.24	1711.49	1605.61	31.80	-3.497	0.000	0.506
92.00	-27.07	-25.66	0.00	-1264.3	0.00	1264.34	2297.03	595.39	1672.77	1576.72	33.28	-3.585	0.000	0.493
94.00	-26.30	-25.44	0.00	-1213.0	0.00	1213.02	2281.55	588.54	1634.49	1547.90	34.80	-3.671	0.000	0.479
95.00	-25.91	-25.33	0.00	-1187.5	0.00	1187.59	2273.71	585.11	1615.51	1533.52	35.57	-3.714	0.000	0.473
95.58	-25.61	-25.26	0.00	-1172.9	0.00	1172.90	2269.13	583.12	1604.56	1525.19	36.03	-3.739	0.000	0.462
95.58	-25.61	-25.26	0.00	-1172.9	0.00	1172.90	2269.13	583.12	1604.56	1525.19	36.03	-3.739	0.000	0.769
96.00	-25.36	-25.24	0.00	-1162.2	0.00	1162.29	2265.81	581.68	1596.65	1519.16	36.36	-3.757	0.000	0.778
98.00	-24.30	-25.02	0.00	-1111.8	0.00	1111.82	2249.81	574.83	1559.25	1490.50	37.96	-3.898	0.000	0.759
100.00	-23.60	-24.83	0.00	-1061.7	0.00	1061.77	2259.61	579.02	1582.04	1508.00	39.62	-4.037	0.000	0.716
102.00	-23.17	-24.66	0.00	-1012.1	0.00	1012.11	2243.52	572.17	1544.82	1479.37	41.34	-4.175	0.000	0.696
104.00	-22.74	-24.48	0.00	-962.79	0.00	962.79	2227.17	565.31	1508.04	1450.84	43.12	-4.304	0.000	0.676
106.00	-22.33	-24.30	0.00	-913.83	0.00	913.83	2210.57	558.46	1471.71	1422.40	44.95	-4.431	0.000	0.654
108.00	-21.91	-24.12	0.00	-865.23	0.00	865.23	2193.71	551.61	1435.82	1394.06	46.83	-4.555	0.000	0.633
110.00	-21.46	-23.73	0.00	-816.44	0.00	816.44	2176.60	544.76	1400.37	1365.84	48.76	-4.678	0.000	0.610
112.00	-21.06	-23.55	0.00	-768.98	0.00	768.98	2159.23	537.91	1365.36	1337.73	50.75	-4.797	0.000	0.587
114.00	-20.67	-23.36	0.00	-721.87	0.00	721.87	2141.61	531.05	1330.80	1309.73	52.78	-4.914	0.000	0.563
115.00	-20.47	-23.27	0.00	-698.52	0.00	698.52	2132.70	527.63	1313.68	1295.79	53.81	-4.972	0.000	0.551
115.00	-20.47	-23.27	0.00	-698.52	0.00	698.52	1556.62	422.98	1055.35	949.74	53.81	-4.972	0.000	0.752
116.00	-20.29	-23.19	0.00	-675.25	0.00	675.25	1551.43	420.24	1041.71	940.38	54.86	-5.029	0.000	0.734
118.00	-19.94	-23.02	0.00	-628.86	0.00	628.86	1540.84	414.76	1014.72	921.68	56.99	-5.166	0.000	0.698
120.00	-19.60	-22.85	0.00	-582.81	0.00	582.81	1529.99	409.28	988.07	902.99	59.18	-5.299	0.000	0.661
122.00	-19.26	-22.68	0.00	-537.11	0.00	537.11	1518.89	403.80	961.78	884.33	61.43	-5.426	0.000	0.623
124.00	-18.93	-22.50	0.00	-491.76	0.00	491.76	1507.54	398.32	935.85	865.70	63.73	-5.548	0.000	0.584
126.00	-18.60	-22.33	0.00	-446.75	0.00	446.75	1495.93	392.84	910.27	847.11	66.07	-5.664	0.000	0.543
128.00	-18.28	-22.15	0.00	-402.09	0.00	402.09	1484.06	387.35	885.04	828.56	68.47	-5.774	0.000	0.501
130.00	-17.97	-21.97	0.00	-357.79	0.00	357.79	1471.95	381.87	860.17	810.06	70.90	-5.876	0.000	0.457
131.75	-17.43	-21.43	0.00	-319.35	0.00	319.35	1461.13	377.08	838.70	793.92	73.07	-5.959	0.000	0.417
132.00	-17.39	-21.41	0.00	-313.99	0.00	313.99	1459.57	376.39	835.65	791.62	73.38	-5.970	0.000	0.412
133.00	-12.46	-16.82	0.00	-292.58	0.00	292.58	1453.29	373.65	823.53	782.42	74.64	-6.015	0.000	0.385
134.00	-12.33	-16.73	0.00	-275.76	0.00	275.76	1446.94	370.91	811.49	773.23	75.90	-6.057	0.000	0.367
134.75	-12.02	-16.36	0.00	-263.21	0.00	263.21	1442.14	368.85	802.52	766.35	76.85	-6.088	0.000	0.354
136.00	-11.85	-16.24	0.00	-242.77	0.00	242.77	1434.06	365.43	787.68	754.91	78.45	-6.137	0.000	0.332
138.00	-11.60	-16.06	0.00	-210.28	0.00	210.28	1420.92	359.95	764.23	736.67	81.03	-6.210	0.000	0.296
140.00	-11.35	-15.87	0.00	-178.17	0.00	178.17	1407.52	354.47	741.13	718.50	83.64	-6.275	0.000	0.258
142.00	-6.33	-9.45	0.00	-146.43	0.00	146.43	1393.87	348.98	718.38	700.42	86.28	-6.332	0.000	0.214
144.00	-6.13	-9.26	0.00	-127.54	0.00	127.54	1379.97	343.50	695.99	682.44	88.94	-6.382	0.000	0.192
145.00	-6.03	-9.17	0.00	-118.28	0.00	118.28	1372.92	340.76	684.93	673.48	90.28	-6.406	0.000	0.181
145.00	-6.03	-9.17	0.00	-118.28	0.00	118.28	931.20	332.53	24157.3	604.09	90.28	-6.406	0.000	0.203
146.00	-5.93	-9.11	0.00	-109.11	0.00	109.11	925.24	329.86	23770.3	594.77	91.62	-6.428	0.000	0.191
148.00	-5.73	-8.99	0.00	-90.90	0.00	90.90	913.32	324.51	23005.8	576.36	94.31	-6.471	0.000	0.165
150.00	-5.53	-8.87	0.00	-72.92	0.00	72.92	901.40	319.16	22253.7	558.24	97.03	-6.507	0.000	0.138
150.00	-5.53	-8.87	0.00	-72.92	0.00	72.92	556.65	167.00	10296.1	213.69	97.03	-6.507	0.000	0.354
152.00	-2.88	-5.72	0.00	-55.17	0.00	55.17	556.65	167.00	10296.1	213.69	99.75	-6.537	0.000	0.265
154.00	-2.74	-5.64	0.00	-43.73	0.00	43.73	556.65	167.00	10296.1	213.69	102.50	-6.610	0.000	0.211
156.00	-2.59	-5.55	0.00	-32.45	0.00	32.45	556.65	167.00	10296.1	213.69	105.28	-6.667	0.000	0.158
158.00	-2.45	-5.46	0.00	-21.35	0.00	21.35	556.65	167.00	10296.1	213.69	108.07	-6.706	0.000	0.105
160.00	0.00	-5.14	0.00	-10.43	0.00	10.43	556.65	167.00	10296.1	213.69	110.88	-6.730	0.000	0.050

Wind Loading - Shaft

Structure: CT02049-S-SBA	Code: TIA-222-H	11/17/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



Load Case: 0.9D + 1.0W 120 mph Wind

Iterations 27

Dead Load Factor 0.90
Wind Load Factor 1.00



Elev (ft)	Description	Kzt	Kz	qz (psf)	qzGh (psf)	C (mph-ft)	Cf	Ice Thick (in)	Tributary (ft)	Aa (sf)	CfAa (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)
0.00	RB1 RB2	1.00	0.70	23.966	26.36	431.43	0.950	0.000	0.00	0.000	0.00	0.0	0.0	0.0
1.00	RT2 RB3 RB4	1.00	0.70	23.966	26.36	429.76	0.972 *	0.000	1.00	4.338	4.21	111.1	0.0	184.5
2.00		1.00	0.70	23.966	26.36	428.10	0.973 *	0.000	1.00	4.321	4.20	110.8	0.0	183.8
4.00		1.00	0.70	23.966	26.36	424.78	0.975 *	0.000	2.00	8.592	8.37	220.7	0.0	365.5
6.00		1.00	0.70	23.966	26.36	421.46	0.977 *	0.000	2.00	8.525	8.33	219.6	0.0	362.6
8.00		1.00	0.70	23.966	26.36	418.13	0.980 *	0.000	2.00	8.458	8.28	218.4	0.0	359.8
10.00		1.00	0.70	23.966	26.36	414.81	0.982 *	0.000	2.00	8.391	8.24	217.2	0.0	356.9
12.00		1.00	0.70	23.966	26.36	411.49	0.985 *	0.000	2.00	8.324	8.20	216.0	0.0	354.0
14.00		1.00	0.70	23.966	26.36	408.16	0.987 *	0.000	2.00	8.257	8.15	214.9	0.0	351.1
16.00	Bot - Section 2	1.00	0.70	23.966	26.36	404.84	0.990 *	0.000	2.00	8.190	8.11	213.7	0.0	348.3
16.25	RT1 RB5	1.00	0.70	23.966	26.36	404.43	0.991 *	0.000	0.25	1.035	1.03	27.1	0.0	87.4
18.00		1.00	0.70	23.966	26.36	401.52	0.993 *	0.000	1.75	7.217	7.16	188.9	0.0	609.0
18.63	RB6	1.00	0.70	23.966	26.36	400.47	0.994 *	0.000	0.63	2.586	2.57	67.8	0.0	218.2
18.88	RT3 RT4	1.00	0.70	23.966	26.36	400.06	0.995 *	0.000	0.25	1.024	1.02	26.9	0.0	86.4
20.00		1.00	0.70	23.966	26.36	398.20	0.996 *	0.000	1.12	4.576	4.56	120.1	0.0	386.0
22.00	Top - Section 1	1.00	0.70	23.966	26.36	394.87	0.998 *	0.000	2.00	8.118	8.10	213.6	0.0	684.9
24.00		1.00	0.70	23.966	26.36	397.97	0.995 *	0.000	2.00	8.052	8.01	211.3	0.0	342.3
26.00		1.00	0.70	23.966	26.36	394.65	0.998 *	0.000	2.00	7.985	7.97	210.1	0.0	339.5
28.00		1.00	0.70	23.966	26.36	391.33	1.001 *	0.000	2.00	7.918	7.93	208.9	0.0	336.6
30.00	RB7	1.00	0.70	23.986	26.38	388.17	1.079 *	0.000	2.00	7.851	8.47	223.6	0.0	333.7
31.00	RT5	1.00	0.71	24.212	26.63	388.32	1.082 *	0.000	1.00	3.900	4.22	112.4	0.0	165.8
32.00		1.00	0.71	24.433	26.88	388.41	1.084 *	0.000	1.00	3.883	4.21	113.1	0.0	165.1
33.38	RT6	1.00	0.72	24.729	27.20	388.43	0.950	0.000	1.38	5.332	5.07	137.8	0.0	226.6
34.00		1.00	0.73	24.859	27.35	388.40	0.950	0.000	0.62	2.385	2.27	62.0	0.0	101.4
36.00		1.00	0.74	25.269	27.80	388.17	0.950	0.000	2.00	7.650	7.27	202.0	0.0	325.1
38.00		1.00	0.75	25.662	28.23	387.75	0.950	0.000	2.00	7.583	7.20	203.3	0.0	322.3
40.00	Appurtenance(s)	1.00	0.76	26.041	28.65	387.13	0.950	0.000	2.00	7.516	7.14	204.5	0.0	319.4
42.00		1.00	0.77	26.407	29.05	386.35	0.950	0.000	2.00	7.449	7.08	205.6	0.0	316.5
44.00		1.00	0.78	26.760	29.44	385.42	0.950	0.000	2.00	7.382	7.01	206.4	0.0	313.6
45.16	RB8	1.00	0.79	26.960	29.66	384.81	0.950	0.000	1.16	4.251	4.04	119.8	0.0	180.6
46.00	RT7	1.00	0.79	27.102	29.81	384.34	0.950	0.000	0.84	3.064	2.91	86.8	0.0	130.2
48.00		1.00	0.80	27.433	30.18	383.13	0.950	0.000	2.00	7.248	6.89	207.8	0.0	307.9
50.00	Bot - Section 3	1.00	0.81	27.755	30.53	381.79	0.950	0.000	2.00	7.181	6.82	208.3	0.0	305.0
52.00		1.00	0.82	28.068	30.87	380.34	0.950	0.000	2.00	7.244	6.88	212.5	0.0	609.9
54.00		1.00	0.83	28.372	31.21	378.78	0.950	0.000	2.00	7.177	6.82	212.8	0.0	604.1
56.00	Top - Section 2	1.00	0.84	28.669	31.54	377.12	0.950	0.000	2.00	7.110	6.75	213.0	0.0	598.4
58.00	RT8 RB9	1.00	0.85	28.958	31.85	382.43	0.950	0.000	2.00	7.043	6.69	213.1	0.0	299.1
60.00		1.00	0.85	29.239	32.16	380.61	0.950	0.000	2.00	6.976	6.63	213.1	0.0	296.2
62.00		1.00	0.86	29.515	32.47	378.71	0.950	0.000	2.00	6.909	6.56	213.1	0.0	293.4
64.00		1.00	0.87	29.784	32.76	376.73	0.950	0.000	2.00	6.842	6.50	212.9	0.0	290.5
66.00		1.00	0.88	30.047	33.05	374.67	0.950	0.000	2.00	6.775	6.44	212.7	0.0	287.6
68.00		1.00	0.89	30.304	33.33	372.53	0.950	0.000	2.00	6.708	6.37	212.4	0.0	284.8
70.00		1.00	0.89	30.556	33.61	370.33	0.950	0.000	2.00	6.641	6.31	212.1	0.0	281.9
72.00		1.00	0.90	30.803	33.88	368.05	0.950	0.000	2.00	6.574	6.25	211.6	0.0	279.0
74.00		1.00	0.91	31.045	34.15	365.71	0.950	0.000	2.00	6.507	6.18	211.1	0.0	276.1
76.00		1.00	0.91	31.283	34.41	363.31	0.950	0.000	2.00	6.440	6.12	210.5	0.0	273.3
78.00	RT9 RB10	1.00	0.92	31.516	34.67	360.85	0.950	0.000	2.00	6.373	6.05	209.9	0.0	270.4

Wind Loading - Shaft

Structure: CT02049-S-SBA	Code: TIA-222-H	11/17/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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80.00 Top - Section 3	1.00	0.93	31.744	34.92	358.34	0.950	0.000	2.00	6.306	5.99	209.2	0.0	267.5
82.00	1.00	0.93	31.969	35.17	355.76	0.950	0.000	2.00	6.239	5.93	208.4	0.0	220.9
84.00	1.00	0.94	32.190	35.41	353.14	0.950	0.000	2.00	6.172	5.86	207.6	0.0	218.6
86.00	1.00	0.95	32.407	35.65	350.47	0.950	0.000	2.00	6.106	5.80	206.8	0.0	216.2
88.00	1.00	0.95	32.621	35.88	347.74	0.950	0.000	2.00	6.039	5.74	205.8	0.0	213.8
90.00	1.00	0.96	32.831	36.11	344.97	0.950	0.000	2.00	5.972	5.67	204.9	0.0	211.4
92.00	1.00	0.96	33.038	36.34	342.15	0.950	0.000	2.00	5.905	5.61	203.9	0.0	209.0
94.00	1.00	0.97	33.241	36.57	339.29	0.950	0.000	2.00	5.838	5.55	202.8	0.0	206.6
95.00 Bot - Section 5	1.00	0.97	33.342	36.68	337.85	0.950	0.000	1.00	2.894	2.75	100.8	0.0	102.4
95.58 RT10	1.00	0.98	33.400	36.74	337.00	0.950	0.000	0.58	1.702	1.62	59.4	0.0	119.4
96.00	1.00	0.98	33.442	36.79	336.39	0.950	0.000	0.42	1.229	1.17	42.9	0.0	86.2
98.00	1.00	0.98	33.639	37.00	333.45	0.950	0.000	2.00	5.812	5.52	204.3	0.0	407.5
100.00 Top - Section 4	1.00	0.99	33.834	37.22	330.46	0.950	0.000	2.00	5.745	5.46	203.1	0.0	402.7
102.00	1.00	0.99	34.026	37.43	333.82	0.950	0.000	2.00	5.678	5.39	201.9	0.0	200.9
104.00	1.00	1.00	34.215	37.64	330.77	0.950	0.000	2.00	5.611	5.33	200.6	0.0	198.5
106.00	1.00	1.00	34.402	37.84	327.69	0.950	0.000	2.00	5.544	5.27	199.3	0.0	196.1
108.00	1.00	1.01	34.586	38.04	324.58	0.950	0.000	2.00	5.477	5.20	198.0	0.0	193.7
110.00 Appurtenance(s)	1.00	1.02	34.768	38.24	321.43	0.950	0.000	2.00	5.410	5.14	196.6	0.0	191.3
112.00	1.00	1.02	34.948	38.44	318.24	0.950	0.000	2.00	5.343	5.08	195.1	0.0	188.9
114.00	1.00	1.03	35.125	38.64	315.02	0.950	0.000	2.00	5.276	5.01	193.7	0.0	186.5
115.00 Top - Section 5	1.00	1.03	35.213	38.73	313.40	0.950	0.000	1.00	2.613	2.48	96.1	0.0	92.4
116.00	1.00	1.03	35.300	38.83	311.78	0.950	0.000	1.00	2.596	2.47	95.8	0.0	73.6
118.00	1.00	1.04	35.473	39.02	308.50	0.950	0.000	2.00	5.142	4.89	190.6	0.0	145.7
120.00	1.00	1.04	35.643	39.21	305.18	0.950	0.000	2.00	5.075	4.82	189.0	0.0	143.8
122.00	1.00	1.05	35.812	39.39	301.84	0.950	0.000	2.00	5.008	4.76	187.4	0.0	141.9
124.00	1.00	1.05	35.979	39.58	298.47	0.950	0.000	2.00	4.941	4.69	185.8	0.0	140.0
126.00	1.00	1.06	36.144	39.76	295.08	0.950	0.000	2.00	4.874	4.63	184.1	0.0	138.1
128.00	1.00	1.06	36.307	39.94	291.65	0.950	0.000	2.00	4.807	4.57	182.4	0.0	136.1
130.00	1.00	1.07	36.468	40.11	288.20	0.950	0.000	2.00	4.741	4.50	180.7	0.0	134.2
131.75 Appurtenance(s)	1.00	1.07	36.607	40.27	285.16	0.950	0.000	1.75	4.093	3.89	156.6	0.0	115.9
132.00	1.00	1.07	36.627	40.29	284.72	0.950	0.000	0.25	0.581	0.55	22.2	0.0	16.4
133.00 Appurtenance(s)	1.00	1.07	36.706	40.38	282.97	0.950	0.000	1.00	2.312	2.20	88.7	0.0	65.4
134.00	1.00	1.07	36.785	40.46	281.22	0.950	0.000	1.00	2.295	2.18	88.2	0.0	65.0
134.75 Appurtenance(s)	1.00	1.08	36.844	40.53	279.90	0.950	0.000	0.75	1.710	1.62	65.8	0.0	48.4
136.00	1.00	1.08	36.941	40.64	277.69	0.950	0.000	1.25	2.829	2.69	109.2	0.0	80.1
138.00	1.00	1.08	37.095	40.80	274.13	0.950	0.000	2.00	4.473	4.25	173.4	0.0	126.6
140.00	1.00	1.09	37.248	40.97	270.55	0.950	0.000	2.00	4.406	4.19	171.5	0.0	124.7
142.00 Appurtenance(s)	1.00	1.09	37.400	41.14	266.95	0.950	0.000	2.00	4.339	4.12	169.6	0.0	122.8
144.00	1.00	1.10	37.549	41.30	263.33	0.950	0.000	2.00	4.272	4.06	167.6	0.0	120.8
145.00 Top - Section 6	1.00	1.10	37.624	41.39	261.50	0.950	0.000	1.00	2.111	2.01	83.0	0.0	59.7
146.00	1.00	1.10	37.698	41.47	250.88	0.600	0.000	1.00	2.023	1.21	50.3	0.0	57.8
148.00	1.00	1.11	37.844	41.63	247.34	0.600	0.000	2.00	3.998	2.40	99.9	0.0	114.2
150.00 Top - Section 7	1.00	1.11	37.990	41.79	243.77	0.600	0.000	2.00	3.933	2.36	98.6	0.0	112.3
152.00 Appurtenance(s)	1.00	1.11	38.134	41.95	166.96	0.645 *	0.000	2.00	2.667	1.72	72.1	0.0	75.8
154.00	1.00	1.12	38.276	42.10	167.27	0.645 *	0.000	2.00	2.667	1.72	72.4	0.0	75.8
156.00	1.00	1.12	38.418	42.26	167.58	0.645 *	0.000	2.00	2.667	1.72	72.7	0.0	75.8
158.00	1.00	1.13	38.558	42.41	167.89	0.645 *	0.000	2.00	2.667	1.72	73.0	0.0	75.8
160.00 Appurtenance(s)	1.00	1.13	38.697	42.57	168.19	0.645 *	0.000	2.00	2.667	1.72	73.2	0.0	75.8

* Cf Adjusted by Linear Load Ra Effect

Totals:	160.00	15,326.4	21,407.5
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Discrete Appurtenance Forces

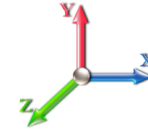
Structure: CT02049-S-SBA	Code: TIA-222-H	11/17/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Load Case: 0.9D + 1.0W 120 mph Wind

Dead Load Factor 0.90
Wind Load Factor 1.00



Iterations 27

No.	Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	Orient Factor	x Ka	Ka	Total CaAa (sf)	Dead Load (lb)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)
1	160.00	VZS01	3	38.834	42.718	0.62	0.90	8.01	235.17	0.000	2.000	342.21	0.00	684.42	
2	160.00	DB222	1	39.039	42.942	1.00	1.00	2.25	14.40	0.000	5.000	96.62	0.00	483.10	
3	160.00	DB846F65ZAXY	6	38.834	42.718	0.84	0.90	35.41	113.40	0.000	2.000	1512.43	0.00	3024.86	
4	160.00	Low Profile Platform	1	38.834	42.718	1.00	1.00	22.00	1080.00	0.000	2.000	939.79	0.00	1879.58	
5	160.00	JAHH-65B-R3B	6	38.834	42.718	0.75	0.90	40.83	291.60	0.000	2.000	1744.21	0.00	3488.42	
6	160.00	6' Lightning rod	1	38.903	42.793	1.00	1.00	0.38	5.85	0.000	3.000	16.26	0.00	48.78	
7	160.00	CBC78T-DS-43	1	38.834	42.718	1.00	1.00	0.37	18.63	0.000	2.000	15.81	0.00	31.61	
8	160.00	B2/B66A RRH-BR049	3	38.834	42.718	0.60	0.90	3.38	189.00	0.000	2.000	144.51	0.00	289.01	
9	160.00	B5/B13 RRH-BR04C	3	38.834	42.718	0.60	0.90	3.38	227.88	0.000	2.000	144.51	0.00	289.01	
10	160.00	Commscope	1	38.834	42.718	1.00	1.00	2.51	13.50	0.000	2.000	107.22	0.00	214.44	
11	152.00	MC-PK8-DSH	1	38.134	41.947	1.00	1.00	37.59	1554.30	0.000	0.000	1576.79	0.00	0.00	
12	152.00	MX08FRO665-21	3	38.134	41.947	0.55	0.75	20.80	174.15	0.000	0.000	872.33	0.00	0.00	
13	152.00	TA08025-B605	3	38.134	41.947	0.50	0.75	2.95	202.50	0.000	0.000	123.94	0.00	0.00	
14	152.00	TA08025-B604	3	38.134	41.947	0.50	0.75	2.95	172.53	0.000	0.000	123.94	0.00	0.00	
15	152.00	RDIDC-9181-OF-48	1	38.134	41.947	0.75	0.75	1.51	19.71	0.000	0.000	63.24	0.00	0.00	
16	142.00	Ericsson 4460 B25 + B66	4	37.400	41.139	0.50	0.75	5.73	392.40	0.000	0.000	235.67	0.00	0.00	
17	142.00	Ericsson Air 6419 B41	4	37.400	41.139	0.57	0.75	8.66	237.96	0.000	0.000	356.43	0.00	0.00	
18	142.00	Mod	1	37.400	41.139	1.00	1.00	12.00	270.00	0.000	0.000	493.67	0.00	0.00	
19	142.00	4449 B71 + B85	4	37.400	41.139	0.54	0.80	4.22	263.52	0.000	0.000	173.76	0.00	0.00	
20	142.00	KRY 112 144/1	3	37.400	41.139	0.38	0.75	0.46	29.70	0.000	0.000	18.98	0.00	0.00	
21	142.00	APXVA18-43-C-A20	1	37.400	41.139	0.61	0.75	5.93	40.86	0.000	0.000	244.15	0.00	0.00	
22	142.00	APXVAARR24_43-U-NA2	3	37.400	41.139	0.52	0.75	31.88	345.60	0.000	0.000	1311.44	0.00	0.00	
23	142.00	KRD 9011461-B66A-B2A	4	37.400	41.139	0.65	0.75	16.99	475.92	0.000	0.000	699.00	0.00	0.00	
24	142.00	Platform w/ HR & Bracing	1	37.400	41.139	1.00	1.00	52.00	2021.40	0.000	0.000	2139.25	0.00	0.00	
25	134.75	AIR 6419 B77G	3	36.844	40.528	0.61	0.80	6.93	178.47	0.000	0.000	280.91	0.00	0.00	
26	133.00	DMP65R-BU6EA-K	2	36.706	40.377	0.57	0.80	19.45	181.80	0.000	0.000	785.26	0.00	0.00	
27	133.00	DMP65R-BU8EA-K	1	36.706	40.377	0.58	0.80	10.44	86.13	0.000	0.000	421.38	0.00	0.00	
28	133.00	Kathrein 800-10965	3	36.706	40.377	0.57	0.80	23.53	293.22	0.000	0.000	950.16	0.00	0.00	
29	133.00	(3) SitePro 1 P/N	2	36.706	40.377	0.56	0.75	24.01	2443.99	0.000	0.000	969.35	0.00	0.00	
30	133.00	Powerwave LGP21401	6	36.706	40.377	0.54	0.80	4.15	76.14	0.000	0.000	167.51	0.00	0.00	
31	133.00	Ericsson RRUS-32 RRU	3	36.706	40.377	0.54	0.80	6.22	207.90	0.000	0.000	251.26	0.00	0.00	
32	133.00	Ericsson B2/B66A 8843	3	36.706	40.377	0.54	0.80	2.64	194.40	0.000	0.000	106.48	0.00	0.00	
33	133.00	Ericsson B5/B12 4449	3	36.706	40.377	0.54	0.80	3.17	191.70	0.000	0.000	127.90	0.00	0.00	
34	133.00	Raycap DC6-48-60-18-8F	2	36.706	40.377	0.54	0.80	0.99	57.24	0.000	0.000	39.82	0.00	0.00	
35	133.00	4478 B14	3	36.706	40.377	0.54	0.80	2.96	161.73	0.000	0.000	119.46	0.00	0.00	
36	133.00	DC9-48-60-24-8C-EV	1	36.706	40.377	0.80	0.80	0.91	23.58	0.000	0.000	36.82	0.00	0.00	
37	131.75	AIR 6449 B77D	3	36.607	40.268	0.68	0.80	8.43	237.60	0.000	0.000	339.27	0.00	0.00	
38	110.00	3 ft Standoff	1	34.768	38.245	1.00	1.00	2.63	36.00	0.000	0.000	100.58	0.00	0.00	
39	110.00	DB222	1	35.238	38.762	1.00	1.00	2.65	14.40	0.000	5.292	102.72	0.00	543.56	
40	40.00	GPS	1	26.041	28.645	1.00	1.00	1.00	9.00	0.000	0.000	28.65	0.00	0.00	

Totals: 12,783.28 18,323.71

Total Applied Force Summary

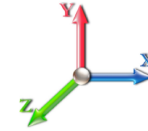
Structure: CT02049-S-SBA	Code: TIA-222-H	11/17/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Load Case: 0.9D + 1.0W 120 mph Wind

Dead Load Factor 0.90
Wind Load Factor 1.00



Iterations 27

Elev (ft)	Description	Lateral FX (-) (lb)	Axial FY (-) (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)
0.00		0.00	0.00	0.00	0.00
1.00		111.11	499.34	0.00	0.00
2.00		110.81	498.62	0.00	0.00
4.00		220.74	995.09	0.00	0.00
6.00		219.57	992.23	0.00	0.00
8.00		218.40	989.36	0.00	0.00
10.00		217.22	986.49	0.00	0.00
12.00		216.05	983.62	0.00	0.00
14.00		214.88	980.75	0.00	0.00
16.00		213.70	977.88	0.00	0.00
16.25		27.05	166.06	0.00	0.00
18.00		188.86	1159.90	0.00	0.00
18.63		67.77	416.49	0.00	0.00
18.88		26.86	165.12	0.00	0.00
20.00		120.12	738.62	0.00	0.00
22.00		213.59	1314.48	0.00	0.00
24.00		211.28	971.95	0.00	0.00
26.00		210.10	969.08	0.00	0.00
28.00		208.93	966.21	0.00	0.00
30.00		223.60	1233.34	0.00	0.00
31.00		112.41	615.59	0.00	0.00
32.00		113.13	614.87	0.00	0.00
33.38		137.78	474.75	0.00	0.00
34.00		61.96	212.85	0.00	0.00
36.00		202.00	684.73	0.00	0.00
38.00		203.35	681.86	0.00	0.00
40.00	(1) attachments	233.18	687.99	0.00	0.00
42.00		205.55	675.83	0.00	0.00
44.00		206.43	672.96	0.00	0.00
45.16		119.76	389.00	0.00	0.00
46.00		86.78	281.09	0.00	0.00
48.00		207.79	667.22	0.00	0.00
50.00		208.29	664.35	0.00	0.00
52.00		212.46	969.20	0.00	0.00
54.00		212.78	963.46	0.00	0.00
56.00		213.00	957.72	0.00	0.00
58.00		213.12	658.42	0.00	0.00
60.00		213.15	655.55	0.00	0.00
62.00		213.09	652.68	0.00	0.00
64.00		212.95	649.81	0.00	0.00
66.00		212.73	646.94	0.00	0.00
68.00		212.43	644.07	0.00	0.00
70.00		212.06	641.20	0.00	0.00
72.00		211.62	638.33	0.00	0.00
74.00		211.11	635.46	0.00	0.00
76.00		210.53	632.59	0.00	0.00
78.00		209.90	629.72	0.00	0.00

Total Applied Force Summary

Structure: CT02049-S-SBA	Code: TIA-222-H	11/17/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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80.00		209.20	626.85	0.00	0.00
82.00		208.45	580.26	0.00	0.00
84.00		207.63	577.87	0.00	0.00
86.00		206.77	575.48	0.00	0.00
88.00		205.85	573.08	0.00	0.00
90.00		204.88	570.69	0.00	0.00
92.00		203.86	568.30	0.00	0.00
94.00		202.79	565.91	0.00	0.00
95.00		100.83	282.06	0.00	0.00
95.58		59.40	223.56	0.00	0.00
96.00		42.95	161.63	0.00	0.00
98.00		204.30	766.79	0.00	0.00
100.00		203.12	492.01	0.00	0.00
102.00		201.89	290.20	0.00	0.00
104.00		200.62	287.81	0.00	0.00
106.00		199.30	285.41	0.00	0.00
108.00		197.95	283.02	0.00	0.00
110.00	(2) attachments	399.86	331.03	0.00	543.56
112.00		195.13	277.30	0.00	0.00
114.00		193.66	274.91	0.00	0.00
115.00		96.15	136.56	0.00	0.00
116.00		95.77	117.76	0.00	0.00
118.00		190.62	234.09	0.00	0.00
120.00		189.04	232.17	0.00	0.00
122.00		187.43	230.26	0.00	0.00
124.00		185.79	228.35	0.00	0.00
126.00		184.11	226.44	0.00	0.00
128.00		182.40	224.52	0.00	0.00
130.00		180.66	222.61	0.00	0.00
131.75	(3) attachments	495.85	430.81	0.00	0.00
132.00		22.22	27.48	0.00	0.00
133.00	(29) attachments	4064.09	4027.46	0.00	0.00
134.00		88.22	97.16	0.00	0.00
134.75	(3) attachments	346.75	251.03	0.00	0.00
136.00		109.23	120.33	0.00	0.00
138.00		173.38	190.98	0.00	0.00
140.00		171.49	189.07	0.00	0.00
142.00	(25) attachments	5841.93	4264.52	0.00	0.00
144.00		167.62	161.14	0.00	0.00
145.00		82.99	79.85	0.00	0.00
146.00		50.34	77.95	0.00	0.00
148.00		99.85	154.49	0.00	0.00
150.00		98.62	152.63	0.00	0.00
152.00	(11) attachments	2832.39	2239.26	0.00	0.00
154.00		72.42	112.49	0.00	0.00
156.00		72.69	112.49	0.00	0.00
158.00		72.95	112.49	0.00	0.00
160.00	(26) attachments	5136.78	2301.92	0.00	10433.25
Totals:		33,650.15	58,853.35	0.00	10,976.81

Linear Appurtenance Segment Forces (Factored)

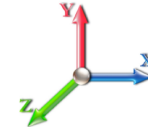
Structure: CT02049-S-SBA	Code: TIA-222-H	11/17/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Load Case: 0.9D + 1.0W 120 mph Wind

Dead Load Factor 0.90
Wind Load Factor 1.00



Iterations 27

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
1.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.17	0.00	0.108	1.023	23.966	0.00	1.98
1.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.108	1.023	23.966	0.00	0.47
1.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.108	1.023	23.966	0.00	1.79
1.00	1 5/8" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.108	1.023	23.966	0.00	1.98
1.00	1-1/4" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.108	1.023	23.966	0.00	1.72
1.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.108	1.023	23.966	0.00	0.47
1.00	1" Reinforcing plate	Yes	1.00	0.000	1.00	0.08	0.00	0.108	1.023	23.966	0.00	108.00
1.00	C10x15.3	Yes	1.00	0.000	2.60	0.22	0.00	0.108	1.023	23.966	0.00	162.00
2.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.17	0.00	0.108	1.024	23.966	0.00	1.98
2.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.108	1.024	23.966	0.00	0.47
2.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.108	1.024	23.966	0.00	1.79
2.00	1 5/8" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.108	1.024	23.966	0.00	1.98
2.00	1-1/4" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.108	1.024	23.966	0.00	1.72
2.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.108	1.024	23.966	0.00	0.47
2.00	1" Reinforcing plate	Yes	1.00	0.000	1.00	0.08	0.00	0.108	1.024	23.966	0.00	108.00
2.00	C10x15.3	Yes	1.00	0.000	2.60	0.22	0.00	0.108	1.024	23.966	0.00	162.00
4.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.109	1.026	23.966	0.00	3.96
4.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.109	1.026	23.966	0.00	0.94
4.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.109	1.026	23.966	0.00	3.58
4.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.109	1.026	23.966	0.00	3.96
4.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.109	1.026	23.966	0.00	3.43
4.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.109	1.026	23.966	0.00	0.94
4.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.17	0.00	0.109	1.026	23.966	0.00	216.00
4.00	C10x15.3	Yes	2.00	0.000	2.60	0.43	0.00	0.109	1.026	23.966	0.00	324.00
6.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.109	1.028	23.966	0.00	3.96
6.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.109	1.028	23.966	0.00	0.94
6.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.109	1.028	23.966	0.00	3.58
6.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.109	1.028	23.966	0.00	3.96
6.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.109	1.028	23.966	0.00	3.43
6.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.109	1.028	23.966	0.00	0.94
6.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.17	0.00	0.109	1.028	23.966	0.00	216.00
6.00	C10x15.3	Yes	2.00	0.000	2.60	0.43	0.00	0.109	1.028	23.966	0.00	324.00
8.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.110	1.031	23.966	0.00	3.96
8.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.110	1.031	23.966	0.00	0.94
8.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.110	1.031	23.966	0.00	3.58
8.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.110	1.031	23.966	0.00	3.96
8.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.110	1.031	23.966	0.00	3.43
8.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.110	1.031	23.966	0.00	0.94
8.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.17	0.00	0.110	1.031	23.966	0.00	216.00
8.00	C10x15.3	Yes	2.00	0.000	2.60	0.43	0.00	0.110	1.031	23.966	0.00	324.00
10.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.111	1.034	23.966	0.00	3.96
10.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.111	1.034	23.966	0.00	0.94
10.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.111	1.034	23.966	0.00	3.58
10.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.111	1.034	23.966	0.00	3.96
10.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.111	1.034	23.966	0.00	3.43
10.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.111	1.034	23.966	0.00	0.94
10.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.17	0.00	0.111	1.034	23.966	0.00	216.00

Linear Appurtenance Segment Forces (Factored)

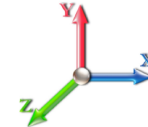
Structure: CT02049-S-SBA	Code: TIA-222-H	11/17/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Load Case: 0.9D + 1.0W 120 mph Wind

Dead Load Factor 0.90
Wind Load Factor 1.00



Iterations 27

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
10.00	C10x15.3	Yes	2.00	0.000	2.60	0.43	0.00	0.111	1.034	23.966	0.00	324.00
12.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.112	1.036	23.966	0.00	3.96
12.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.112	1.036	23.966	0.00	0.94
12.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.112	1.036	23.966	0.00	3.58
12.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.112	1.036	23.966	0.00	3.96
12.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.112	1.036	23.966	0.00	3.43
12.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.112	1.036	23.966	0.00	0.94
12.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.17	0.00	0.112	1.036	23.966	0.00	216.00
12.00	C10x15.3	Yes	2.00	0.000	2.60	0.43	0.00	0.112	1.036	23.966	0.00	324.00
14.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.113	1.039	23.966	0.00	3.96
14.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.113	1.039	23.966	0.00	0.94
14.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.113	1.039	23.966	0.00	3.58
14.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.113	1.039	23.966	0.00	3.96
14.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.113	1.039	23.966	0.00	3.43
14.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.113	1.039	23.966	0.00	0.94
14.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.17	0.00	0.113	1.039	23.966	0.00	216.00
14.00	C10x15.3	Yes	2.00	0.000	2.60	0.43	0.00	0.113	1.039	23.966	0.00	324.00
16.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.114	1.042	23.966	0.00	3.96
16.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.114	1.042	23.966	0.00	0.94
16.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.114	1.042	23.966	0.00	3.58
16.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.114	1.042	23.966	0.00	3.96
16.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.114	1.042	23.966	0.00	3.43
16.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.114	1.042	23.966	0.00	0.94
16.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.17	0.00	0.114	1.042	23.966	0.00	216.00
16.00	C10x15.3	Yes	2.00	0.000	2.60	0.43	0.00	0.114	1.042	23.966	0.00	324.00
16.25	1 5/8" Hybrid	Yes	0.25	0.000	2.00	0.04	0.00	0.114	1.043	23.966	0.00	0.50
16.25	7/8" Coax	Yes	0.25	0.000	0.00	0.00	0.00	0.114	1.043	23.966	0.00	0.12
16.25	1.75" Hybrid	Yes	0.25	0.000	0.00	0.00	0.00	0.114	1.043	23.966	0.00	0.45
16.25	1 5/8" Fiber	Yes	0.25	0.000	0.00	0.00	0.00	0.114	1.043	23.966	0.00	0.50
16.25	1-1/4" Fiber	Yes	0.25	0.000	0.00	0.00	0.00	0.114	1.043	23.966	0.00	0.43
16.25	7/8" Coax	Yes	0.25	0.000	0.00	0.00	0.00	0.114	1.043	23.966	0.00	0.12
16.25	1" Reinforcing plate	Yes	0.25	0.000	1.00	0.02	0.00	0.114	1.043	23.966	0.00	27.00
16.25	C10x15.3	Yes	0.25	0.000	2.60	0.05	0.00	0.114	1.043	23.966	0.00	40.50
18.00	1 5/8" Hybrid	Yes	1.75	0.000	2.00	0.29	0.00	0.115	1.045	23.966	0.00	3.47
18.00	7/8" Coax	Yes	1.75	0.000	0.00	0.00	0.00	0.115	1.045	23.966	0.00	0.82
18.00	1.75" Hybrid	Yes	1.75	0.000	0.00	0.00	0.00	0.115	1.045	23.966	0.00	3.14
18.00	1 5/8" Fiber	Yes	1.75	0.000	0.00	0.00	0.00	0.115	1.045	23.966	0.00	3.47
18.00	1-1/4" Fiber	Yes	1.75	0.000	0.00	0.00	0.00	0.115	1.045	23.966	0.00	3.01
18.00	7/8" Coax	Yes	1.75	0.000	0.00	0.00	0.00	0.115	1.045	23.966	0.00	0.82
18.00	1" Reinforcing plate	Yes	1.75	0.000	1.00	0.15	0.00	0.115	1.045	23.966	0.00	189.00
18.00	C10x15.3	Yes	1.75	0.000	2.60	0.38	0.00	0.115	1.045	23.966	0.00	283.50
18.63	1 5/8" Hybrid	Yes	0.63	0.000	2.00	0.10	0.00	0.116	1.047	23.966	0.00	1.25
18.63	7/8" Coax	Yes	0.63	0.000	0.00	0.00	0.00	0.116	1.047	23.966	0.00	0.29
18.63	1.75" Hybrid	Yes	0.63	0.000	0.00	0.00	0.00	0.116	1.047	23.966	0.00	1.13
18.63	1 5/8" Fiber	Yes	0.63	0.000	0.00	0.00	0.00	0.116	1.047	23.966	0.00	1.25
18.63	1-1/4" Fiber	Yes	0.63	0.000	0.00	0.00	0.00	0.116	1.047	23.966	0.00	1.08
18.63	7/8" Coax	Yes	0.63	0.000	0.00	0.00	0.00	0.116	1.047	23.966	0.00	0.29

Linear Appurtenance Segment Forces (Factored)

Structure: CT02049-S-SBA	Code: TIA-222-H	11/17/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



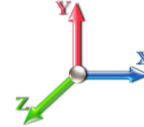
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Load Case: 0.9D + 1.0W 120 mph Wind

Iterations 27

Dead Load Factor 0.90

Wind Load Factor 1.00



Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
18.63	1" Reinforcing plate	Yes	0.63	0.000	1.00	0.05	0.00	0.116	1.047	23.966	0.00	68.04
18.63	C10x15.3	Yes	0.63	0.000	2.60	0.14	0.00	0.116	1.047	23.966	0.00	102.06
18.88	1 5/8" Hybrid	Yes	0.25	0.000	2.00	0.04	0.00	0.116	1.047	23.966	0.00	0.50
18.88	7/8" Coax	Yes	0.25	0.000	0.00	0.00	0.00	0.116	1.047	23.966	0.00	0.12
18.88	1.75" Hybrid	Yes	0.25	0.000	0.00	0.00	0.00	0.116	1.047	23.966	0.00	0.45
18.88	1 5/8" Fiber	Yes	0.25	0.000	0.00	0.00	0.00	0.116	1.047	23.966	0.00	0.50
18.88	1-1/4" Fiber	Yes	0.25	0.000	0.00	0.00	0.00	0.116	1.047	23.966	0.00	0.43
18.88	7/8" Coax	Yes	0.25	0.000	0.00	0.00	0.00	0.116	1.047	23.966	0.00	0.12
18.88	1" Reinforcing plate	Yes	0.25	0.000	1.00	0.02	0.00	0.116	1.047	23.966	0.00	27.00
18.88	C10x15.3	Yes	0.25	0.000	2.60	0.05	0.00	0.116	1.047	23.966	0.00	40.50
20.00	1 5/8" Hybrid	Yes	1.12	0.000	2.00	0.19	0.00	0.116	1.048	23.966	0.00	2.22
20.00	7/8" Coax	Yes	1.12	0.000	0.00	0.00	0.00	0.116	1.048	23.966	0.00	0.52
20.00	1.75" Hybrid	Yes	1.12	0.000	0.00	0.00	0.00	0.116	1.048	23.966	0.00	2.01
20.00	1 5/8" Fiber	Yes	1.12	0.000	0.00	0.00	0.00	0.116	1.048	23.966	0.00	2.22
20.00	1-1/4" Fiber	Yes	1.12	0.000	0.00	0.00	0.00	0.116	1.048	23.966	0.00	1.92
20.00	7/8" Coax	Yes	1.12	0.000	0.00	0.00	0.00	0.116	1.048	23.966	0.00	0.52
20.00	1" Reinforcing plate	Yes	1.12	0.000	1.00	0.09	0.00	0.116	1.048	23.966	0.00	120.96
20.00	C10x15.3	Yes	1.12	0.000	2.60	0.24	0.00	0.116	1.048	23.966	0.00	181.44
22.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.117	1.050	23.966	0.00	3.96
22.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.117	1.050	23.966	0.00	0.94
22.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.117	1.050	23.966	0.00	3.58
22.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.117	1.050	23.966	0.00	3.96
22.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.117	1.050	23.966	0.00	3.43
22.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.117	1.050	23.966	0.00	0.94
22.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.17	0.00	0.117	1.050	23.966	0.00	216.00
22.00	C10x15.3	Yes	2.00	0.000	2.60	0.43	0.00	0.117	1.050	23.966	0.00	324.00
24.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.116	1.048	23.966	0.00	3.96
24.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.116	1.048	23.966	0.00	0.94
24.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.116	1.048	23.966	0.00	3.58
24.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.116	1.048	23.966	0.00	3.96
24.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.116	1.048	23.966	0.00	3.43
24.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.116	1.048	23.966	0.00	0.94
24.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.17	0.00	0.116	1.048	23.966	0.00	216.00
24.00	C10x15.3	Yes	2.00	0.000	2.60	0.43	0.00	0.116	1.048	23.966	0.00	324.00
26.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.117	1.051	23.966	0.00	3.96
26.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.117	1.051	23.966	0.00	0.94
26.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.117	1.051	23.966	0.00	3.58
26.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.117	1.051	23.966	0.00	3.96
26.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.117	1.051	23.966	0.00	3.43
26.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.117	1.051	23.966	0.00	0.94
26.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.17	0.00	0.117	1.051	23.966	0.00	216.00
26.00	C10x15.3	Yes	2.00	0.000	2.60	0.43	0.00	0.117	1.051	23.966	0.00	324.00
28.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.118	1.054	23.966	0.00	3.96
28.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.118	1.054	23.966	0.00	0.94
28.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.118	1.054	23.966	0.00	3.58
28.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.118	1.054	23.966	0.00	3.96
28.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.118	1.054	23.966	0.00	3.43

Linear Appurtenance Segment Forces (Factored)

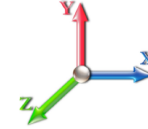
Structure: CT02049-S-SBA	Code: TIA-222-H	11/17/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Load Case: 0.9D + 1.0W 120 mph Wind

Dead Load Factor 0.90
Wind Load Factor 1.00



Iterations 27

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
28.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.118	1.054	23.966	0.00	0.94
28.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.17	0.00	0.118	1.054	23.966	0.00	216.00
28.00	C10x15.3	Yes	2.00	0.000	2.60	0.43	0.00	0.118	1.054	23.966	0.00	324.00
30.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.145	1.136	23.986	0.00	3.96
30.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.145	1.136	23.986	0.00	0.94
30.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.145	1.136	23.986	0.00	3.58
30.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.145	1.136	23.986	0.00	3.96
30.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.145	1.136	23.986	0.00	3.43
30.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.145	1.136	23.986	0.00	0.94
30.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.145	1.136	23.986	0.00	270.00
30.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.17	0.00	0.145	1.136	23.986	0.00	216.00
30.00	C10x15.3	Yes	2.00	0.000	2.60	0.43	0.00	0.145	1.136	23.986	0.00	324.00
31.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.17	0.00	0.146	1.139	24.212	0.00	1.98
31.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.146	1.139	24.212	0.00	0.47
31.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.146	1.139	24.212	0.00	1.79
31.00	1 5/8" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.146	1.139	24.212	0.00	1.98
31.00	1-1/4" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.146	1.139	24.212	0.00	1.72
31.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.146	1.139	24.212	0.00	0.47
31.00	1.25" Reinforcing	Yes	1.00	0.000	1.25	0.10	0.00	0.146	1.139	24.212	0.00	135.00
31.00	1" Reinforcing plate	Yes	1.00	0.000	1.00	0.08	0.00	0.146	1.139	24.212	0.00	108.00
31.00	C10x15.3	Yes	1.00	0.000	2.60	0.22	0.00	0.146	1.139	24.212	0.00	162.00
32.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.17	0.00	0.147	1.141	24.433	0.00	1.98
32.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.147	1.141	24.433	0.00	0.47
32.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.147	1.141	24.433	0.00	1.79
32.00	1 5/8" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.147	1.141	24.433	0.00	1.98
32.00	1-1/4" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.147	1.141	24.433	0.00	1.72
32.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.147	1.141	24.433	0.00	0.47
32.00	1.25" Reinforcing	Yes	1.00	0.000	1.25	0.10	0.00	0.147	1.141	24.433	0.00	135.00
32.00	1" Reinforcing plate	Yes	1.00	0.000	1.00	0.08	0.00	0.147	1.141	24.433	0.00	108.00
32.00	C10x15.3	Yes	1.00	0.000	2.60	0.22	0.00	0.147	1.141	24.433	0.00	162.00
33.38	1 5/8" Hybrid	Yes	1.38	0.000	2.00	0.23	0.00	0.070	0.000	24.729	0.00	2.73
33.38	7/8" Coax	Yes	1.38	0.000	0.00	0.00	0.00	0.070	0.000	24.729	0.00	0.65
33.38	1.75" Hybrid	Yes	1.38	0.000	0.00	0.00	0.00	0.070	0.000	24.729	0.00	2.47
33.38	1 5/8" Fiber	Yes	1.38	0.000	0.00	0.00	0.00	0.070	0.000	24.729	0.00	2.73
33.38	1-1/4" Fiber	Yes	1.38	0.000	0.00	0.00	0.00	0.070	0.000	24.729	0.00	2.37
33.38	7/8" Coax	Yes	1.38	0.000	0.00	0.00	0.00	0.070	0.000	24.729	0.00	0.65
33.38	1.25" Reinforcing	Yes	1.38	0.000	1.25	0.14	0.00	0.070	0.000	24.729	0.00	186.30
34.00	1 5/8" Hybrid	Yes	0.62	0.000	2.00	0.10	0.00	0.070	0.000	24.859	0.00	1.23
34.00	7/8" Coax	Yes	0.62	0.000	0.00	0.00	0.00	0.070	0.000	24.859	0.00	0.29
34.00	1.75" Hybrid	Yes	0.62	0.000	0.00	0.00	0.00	0.070	0.000	24.859	0.00	1.11
34.00	1 5/8" Fiber	Yes	0.62	0.000	0.00	0.00	0.00	0.070	0.000	24.859	0.00	1.23
34.00	1-1/4" Fiber	Yes	0.62	0.000	0.00	0.00	0.00	0.070	0.000	24.859	0.00	1.06
34.00	7/8" Coax	Yes	0.62	0.000	0.00	0.00	0.00	0.070	0.000	24.859	0.00	0.29
34.00	1.25" Reinforcing	Yes	0.62	0.000	1.25	0.06	0.00	0.070	0.000	24.859	0.00	83.70
36.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.071	0.000	25.269	0.00	3.96
36.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.071	0.000	25.269	0.00	0.94
36.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.071	0.000	25.269	0.00	3.58

Linear Appurtenance Segment Forces (Factored)

Structure: CT02049-S-SBA	Code: TIA-222-H	11/17/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



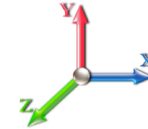
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Load Case: 0.9D + 1.0W 120 mph Wind

Iterations 27

Dead Load Factor 0.90

Wind Load Factor 1.00



Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
36.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.071	0.000	25.269	0.00	3.96
36.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.071	0.000	25.269	0.00	3.43
36.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.071	0.000	25.269	0.00	0.94
36.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.071	0.000	25.269	0.00	270.00
38.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.071	0.000	25.662	0.00	3.96
38.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.071	0.000	25.662	0.00	0.94
38.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.071	0.000	25.662	0.00	3.58
38.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.071	0.000	25.662	0.00	3.96
38.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.071	0.000	25.662	0.00	3.43
38.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.071	0.000	25.662	0.00	0.94
38.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.071	0.000	25.662	0.00	270.00
40.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.072	0.000	26.041	0.00	3.96
40.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.072	0.000	26.041	0.00	0.94
40.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.072	0.000	26.041	0.00	3.58
40.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.072	0.000	26.041	0.00	3.96
40.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.072	0.000	26.041	0.00	3.43
40.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.072	0.000	26.041	0.00	0.94
40.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.072	0.000	26.041	0.00	270.00
42.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.073	0.000	26.407	0.00	3.96
42.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	26.407	0.00	0.94
42.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	26.407	0.00	3.58
42.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	26.407	0.00	3.96
42.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	26.407	0.00	3.43
42.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	26.407	0.00	0.94
42.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.073	0.000	26.407	0.00	270.00
44.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.073	0.000	26.760	0.00	3.96
44.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	26.760	0.00	0.94
44.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	26.760	0.00	3.58
44.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	26.760	0.00	3.96
44.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	26.760	0.00	3.43
44.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	26.760	0.00	0.94
44.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.073	0.000	26.760	0.00	270.00
45.16	1 5/8" Hybrid	Yes	1.16	0.000	2.00	0.19	0.00	0.074	0.000	26.960	0.00	2.30
45.16	7/8" Coax	Yes	1.16	0.000	0.00	0.00	0.00	0.074	0.000	26.960	0.00	0.54
45.16	1.75" Hybrid	Yes	1.16	0.000	0.00	0.00	0.00	0.074	0.000	26.960	0.00	2.08
45.16	1 5/8" Fiber	Yes	1.16	0.000	0.00	0.00	0.00	0.074	0.000	26.960	0.00	2.30
45.16	1-1/4" Fiber	Yes	1.16	0.000	0.00	0.00	0.00	0.074	0.000	26.960	0.00	1.99
45.16	7/8" Coax	Yes	1.16	0.000	0.00	0.00	0.00	0.074	0.000	26.960	0.00	0.54
45.16	1.25" Reinforcing	Yes	1.16	0.000	1.25	0.12	0.00	0.074	0.000	26.960	0.00	156.60
46.00	1 5/8" Hybrid	Yes	0.84	0.000	2.00	0.14	0.00	0.074	0.000	27.102	0.00	1.66
46.00	7/8" Coax	Yes	0.84	0.000	0.00	0.00	0.00	0.074	0.000	27.102	0.00	0.39
46.00	1.75" Hybrid	Yes	0.84	0.000	0.00	0.00	0.00	0.074	0.000	27.102	0.00	1.51
46.00	1 5/8" Fiber	Yes	0.84	0.000	0.00	0.00	0.00	0.074	0.000	27.102	0.00	1.66
46.00	1-1/4" Fiber	Yes	0.84	0.000	0.00	0.00	0.00	0.074	0.000	27.102	0.00	1.44
46.00	7/8" Coax	Yes	0.84	0.000	0.00	0.00	0.00	0.074	0.000	27.102	0.00	0.39
46.00	1.25" Reinforcing	Yes	0.84	0.000	1.25	0.09	0.00	0.074	0.000	27.102	0.00	113.40
48.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.075	0.000	27.433	0.00	3.96

Linear Appurtenance Segment Forces (Factored)

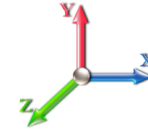
Structure: CT02049-S-SBA	Code: TIA-222-H	11/17/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



Page: 40

Load Case: 0.9D + 1.0W 120 mph Wind

Dead Load Factor 0.90
Wind Load Factor 1.00



Iterations 27

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
48.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	27.433	0.00	0.94
48.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	27.433	0.00	3.58
48.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	27.433	0.00	3.96
48.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	27.433	0.00	3.43
48.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	27.433	0.00	0.94
48.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.075	0.000	27.433	0.00	270.00
50.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.075	0.000	27.755	0.00	3.96
50.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	27.755	0.00	0.94
50.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	27.755	0.00	3.58
50.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	27.755	0.00	3.96
50.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	27.755	0.00	3.43
50.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	27.755	0.00	0.94
50.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.075	0.000	27.755	0.00	270.00
52.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.076	0.000	28.068	0.00	3.96
52.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.076	0.000	28.068	0.00	0.94
52.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.076	0.000	28.068	0.00	3.58
52.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.076	0.000	28.068	0.00	3.96
52.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.076	0.000	28.068	0.00	3.43
52.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.076	0.000	28.068	0.00	0.94
52.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.076	0.000	28.068	0.00	270.00
54.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.077	0.000	28.372	0.00	3.96
54.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	28.372	0.00	0.94
54.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	28.372	0.00	3.58
54.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	28.372	0.00	3.96
54.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	28.372	0.00	3.43
54.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	28.372	0.00	0.94
54.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.077	0.000	28.372	0.00	270.00
56.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.078	0.000	28.669	0.00	3.96
56.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	28.669	0.00	0.94
56.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	28.669	0.00	3.58
56.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	28.669	0.00	3.96
56.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	28.669	0.00	3.43
56.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	28.669	0.00	0.94
56.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.078	0.000	28.669	0.00	270.00
58.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.077	0.000	28.958	0.00	3.96
58.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	28.958	0.00	0.94
58.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	28.958	0.00	3.58
58.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	28.958	0.00	3.96
58.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	28.958	0.00	3.43
58.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	28.958	0.00	0.94
58.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.077	0.000	28.958	0.00	270.00
60.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.078	0.000	29.239	0.00	3.96
60.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	29.239	0.00	0.94
60.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	29.239	0.00	3.58
60.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	29.239	0.00	3.96
60.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	29.239	0.00	3.43
60.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	29.239	0.00	0.94

Linear Appurtenance Segment Forces (Factored)

Structure: CT02049-S-SBA	Code: TIA-222-H	11/17/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Load Case: 0.9D + 1.0W 120 mph Wind

Dead Load Factor 0.90
Wind Load Factor 1.00



Iterations 27

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
60.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.078	0.000	29.239	0.00	270.00
62.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.078	0.000	29.515	0.00	3.96
62.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	29.515	0.00	0.94
62.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	29.515	0.00	3.58
62.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	29.515	0.00	3.96
62.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	29.515	0.00	3.43
62.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	29.515	0.00	0.94
62.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.078	0.000	29.515	0.00	270.00
64.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.079	0.000	29.784	0.00	3.96
64.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.079	0.000	29.784	0.00	0.94
64.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.079	0.000	29.784	0.00	3.58
64.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.079	0.000	29.784	0.00	3.96
64.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.079	0.000	29.784	0.00	3.43
64.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.079	0.000	29.784	0.00	0.94
64.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.079	0.000	29.784	0.00	270.00
66.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.080	0.000	30.047	0.00	3.96
66.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.080	0.000	30.047	0.00	0.94
66.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.080	0.000	30.047	0.00	3.58
66.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.080	0.000	30.047	0.00	3.96
66.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.080	0.000	30.047	0.00	3.43
66.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.080	0.000	30.047	0.00	0.94
66.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.080	0.000	30.047	0.00	270.00
68.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.081	0.000	30.304	0.00	3.96
68.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.081	0.000	30.304	0.00	0.94
68.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.081	0.000	30.304	0.00	3.58
68.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.081	0.000	30.304	0.00	3.96
68.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.081	0.000	30.304	0.00	3.43
68.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.081	0.000	30.304	0.00	0.94
68.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.081	0.000	30.304	0.00	270.00
70.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.082	0.000	30.556	0.00	3.96
70.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.082	0.000	30.556	0.00	0.94
70.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.082	0.000	30.556	0.00	3.58
70.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.082	0.000	30.556	0.00	3.96
70.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.082	0.000	30.556	0.00	3.43
70.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.082	0.000	30.556	0.00	0.94
70.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.082	0.000	30.556	0.00	270.00
72.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.082	0.000	30.803	0.00	3.96
72.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.082	0.000	30.803	0.00	0.94
72.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.082	0.000	30.803	0.00	3.58
72.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.082	0.000	30.803	0.00	3.96
72.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.082	0.000	30.803	0.00	3.43
72.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.082	0.000	30.803	0.00	0.94
72.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.082	0.000	30.803	0.00	270.00
74.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.083	0.000	31.045	0.00	3.96
74.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.083	0.000	31.045	0.00	0.94
74.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.083	0.000	31.045	0.00	3.58
74.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.083	0.000	31.045	0.00	3.96

Linear Appurtenance Segment Forces (Factored)

Structure: CT02049-S-SBA	Code: TIA-222-H	11/17/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



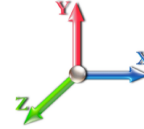
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Load Case: 0.9D + 1.0W 120 mph Wind

Iterations 27

Dead Load Factor 0.90

Wind Load Factor 1.00



Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
74.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.083	0.000	31.045	0.00	3.43
74.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.083	0.000	31.045	0.00	0.94
74.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.083	0.000	31.045	0.00	270.00
76.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.084	0.000	31.283	0.00	3.96
76.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.084	0.000	31.283	0.00	0.94
76.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.084	0.000	31.283	0.00	3.58
76.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.084	0.000	31.283	0.00	3.96
76.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.084	0.000	31.283	0.00	3.43
76.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.084	0.000	31.283	0.00	0.94
76.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.084	0.000	31.283	0.00	270.00
78.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.085	0.000	31.516	0.00	3.96
78.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.085	0.000	31.516	0.00	0.94
78.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.085	0.000	31.516	0.00	3.58
78.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.085	0.000	31.516	0.00	3.96
78.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.085	0.000	31.516	0.00	3.43
78.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.085	0.000	31.516	0.00	0.94
78.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.085	0.000	31.516	0.00	270.00
80.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.086	0.000	31.744	0.00	3.96
80.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.086	0.000	31.744	0.00	0.94
80.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.086	0.000	31.744	0.00	3.58
80.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.086	0.000	31.744	0.00	3.96
80.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.086	0.000	31.744	0.00	3.43
80.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.086	0.000	31.744	0.00	0.94
80.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.086	0.000	31.744	0.00	270.00
82.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.087	0.000	31.969	0.00	3.96
82.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.087	0.000	31.969	0.00	0.94
82.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.087	0.000	31.969	0.00	3.58
82.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.087	0.000	31.969	0.00	3.96
82.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.087	0.000	31.969	0.00	3.43
82.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.087	0.000	31.969	0.00	0.94
82.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.087	0.000	31.969	0.00	270.00
84.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.088	0.000	32.190	0.00	3.96
84.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.088	0.000	32.190	0.00	0.94
84.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.088	0.000	32.190	0.00	3.58
84.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.088	0.000	32.190	0.00	3.96
84.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.088	0.000	32.190	0.00	3.43
84.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.088	0.000	32.190	0.00	0.94
84.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.088	0.000	32.190	0.00	270.00
86.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.089	0.000	32.407	0.00	3.96
86.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.089	0.000	32.407	0.00	0.94
86.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.089	0.000	32.407	0.00	3.58
86.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.089	0.000	32.407	0.00	3.96
86.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.089	0.000	32.407	0.00	3.43
86.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.089	0.000	32.407	0.00	0.94
86.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.089	0.000	32.407	0.00	270.00
88.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.090	0.000	32.621	0.00	3.96
88.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.090	0.000	32.621	0.00	0.94

Linear Appurtenance Segment Forces (Factored)

Structure: CT02049-S-SBA	Code: TIA-222-H	11/17/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



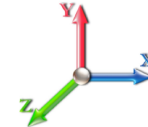
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Load Case: 0.9D + 1.0W 120 mph Wind

Iterations 27

Dead Load Factor 0.90

Wind Load Factor 1.00



Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
88.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.090	0.000	32.621	0.00	3.58
88.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.090	0.000	32.621	0.00	3.96
88.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.090	0.000	32.621	0.00	3.43
88.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.090	0.000	32.621	0.00	0.94
88.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.090	0.000	32.621	0.00	270.00
90.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.091	0.000	32.831	0.00	3.96
90.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.091	0.000	32.831	0.00	0.94
90.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.091	0.000	32.831	0.00	3.58
90.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.091	0.000	32.831	0.00	3.96
90.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.091	0.000	32.831	0.00	3.43
90.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.091	0.000	32.831	0.00	0.94
90.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.091	0.000	32.831	0.00	270.00
92.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.092	0.000	33.038	0.00	3.96
92.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.092	0.000	33.038	0.00	0.94
92.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.092	0.000	33.038	0.00	3.58
92.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.092	0.000	33.038	0.00	3.96
92.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.092	0.000	33.038	0.00	3.43
92.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.092	0.000	33.038	0.00	0.94
92.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.092	0.000	33.038	0.00	270.00
94.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.093	0.000	33.241	0.00	3.96
94.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.093	0.000	33.241	0.00	0.94
94.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.093	0.000	33.241	0.00	3.58
94.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.093	0.000	33.241	0.00	3.96
94.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.093	0.000	33.241	0.00	3.43
94.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.093	0.000	33.241	0.00	0.94
94.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.093	0.000	33.241	0.00	270.00
95.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.17	0.00	0.094	0.000	33.342	0.00	1.98
95.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.094	0.000	33.342	0.00	0.47
95.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.094	0.000	33.342	0.00	1.79
95.00	1 5/8" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.094	0.000	33.342	0.00	1.98
95.00	1-1/4" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.094	0.000	33.342	0.00	1.72
95.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.094	0.000	33.342	0.00	0.47
95.00	1.25" Reinforcing	Yes	1.00	0.000	1.25	0.10	0.00	0.094	0.000	33.342	0.00	135.00
95.58	1 5/8" Hybrid	Yes	0.58	0.000	2.00	0.10	0.00	0.094	0.000	33.400	0.00	1.15
95.58	7/8" Coax	Yes	0.58	0.000	0.00	0.00	0.00	0.094	0.000	33.400	0.00	0.27
95.58	1.75" Hybrid	Yes	0.58	0.000	0.00	0.00	0.00	0.094	0.000	33.400	0.00	1.04
95.58	1 5/8" Fiber	Yes	0.58	0.000	0.00	0.00	0.00	0.094	0.000	33.400	0.00	1.15
95.58	1-1/4" Fiber	Yes	0.58	0.000	0.00	0.00	0.00	0.094	0.000	33.400	0.00	1.00
95.58	7/8" Coax	Yes	0.58	0.000	0.00	0.00	0.00	0.094	0.000	33.400	0.00	0.27
95.58	1.25" Reinforcing	Yes	0.58	0.000	1.25	0.06	0.00	0.094	0.000	33.400	0.00	78.30
96.00	1 5/8" Hybrid	Yes	0.42	0.000	2.00	0.07	0.00	0.094	0.000	33.442	0.00	0.83
96.00	7/8" Coax	Yes	0.42	0.000	0.00	0.00	0.00	0.094	0.000	33.442	0.00	0.20
96.00	1.75" Hybrid	Yes	0.42	0.000	0.00	0.00	0.00	0.094	0.000	33.442	0.00	0.75
96.00	1 5/8" Fiber	Yes	0.42	0.000	0.00	0.00	0.00	0.094	0.000	33.442	0.00	0.83
96.00	1-1/4" Fiber	Yes	0.42	0.000	0.00	0.00	0.00	0.094	0.000	33.442	0.00	0.72
96.00	7/8" Coax	Yes	0.42	0.000	0.00	0.00	0.00	0.094	0.000	33.442	0.00	0.20
96.00	1.25" Reinforcing	Yes	0.42	0.000	1.25	0.04	0.00	0.094	0.000	33.442	0.00	56.70

Linear Appurtenance Segment Forces (Factored)

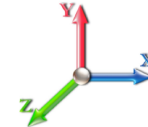
Structure: CT02049-S-SBA	Code: TIA-222-H	11/17/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Load Case: 0.9D + 1.0W 120 mph Wind

Dead Load Factor 0.90
Wind Load Factor 1.00



Iterations 27

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
98.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.095	0.000	33.639	0.00	3.96
98.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.095	0.000	33.639	0.00	0.94
98.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.095	0.000	33.639	0.00	3.58
98.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.095	0.000	33.639	0.00	3.96
98.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.095	0.000	33.639	0.00	3.43
98.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.095	0.000	33.639	0.00	0.94
98.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.095	0.000	33.639	0.00	270.00
100.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.059	0.000	33.834	0.00	3.96
100.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	33.834	0.00	0.94
100.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	33.834	0.00	3.58
100.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	33.834	0.00	3.96
100.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	33.834	0.00	3.43
100.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	33.834	0.00	0.94
102.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.059	0.000	34.026	0.00	3.96
102.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	34.026	0.00	0.94
102.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	34.026	0.00	3.58
102.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	34.026	0.00	3.96
102.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	34.026	0.00	3.43
102.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	34.026	0.00	0.94
104.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.059	0.000	34.215	0.00	3.96
104.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	34.215	0.00	0.94
104.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	34.215	0.00	3.58
104.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	34.215	0.00	3.96
104.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	34.215	0.00	3.43
104.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	34.215	0.00	0.94
106.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.060	0.000	34.402	0.00	3.96
106.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.060	0.000	34.402	0.00	0.94
106.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.060	0.000	34.402	0.00	3.58
106.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.060	0.000	34.402	0.00	3.96
106.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.060	0.000	34.402	0.00	3.43
106.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.060	0.000	34.402	0.00	0.94
108.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.061	0.000	34.586	0.00	3.96
108.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.061	0.000	34.586	0.00	0.94
108.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.061	0.000	34.586	0.00	3.58
108.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.061	0.000	34.586	0.00	3.96
108.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.061	0.000	34.586	0.00	3.43
108.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.061	0.000	34.586	0.00	0.94
110.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.062	0.000	34.768	0.00	3.96
110.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.062	0.000	34.768	0.00	0.94
110.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.062	0.000	34.768	0.00	3.58
110.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.062	0.000	34.768	0.00	3.96
110.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.062	0.000	34.768	0.00	3.43
110.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.062	0.000	34.768	0.00	0.94
112.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.062	0.000	34.948	0.00	3.96
112.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.062	0.000	34.948	0.00	0.94
112.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.062	0.000	34.948	0.00	3.58
112.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.062	0.000	34.948	0.00	3.96

Linear Appurtenance Segment Forces (Factored)

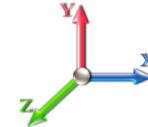
Structure: CT02049-S-SBA	Code: TIA-222-H	11/17/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Load Case: 0.9D + 1.0W 120 mph Wind

Dead Load Factor 0.90
Wind Load Factor 1.00



Iterations 27

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
112.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.062	0.000	34.948	0.00	3.43
114.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.063	0.000	35.125	0.00	3.96
114.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.063	0.000	35.125	0.00	0.94
114.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.063	0.000	35.125	0.00	3.58
114.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.063	0.000	35.125	0.00	3.96
114.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.063	0.000	35.125	0.00	3.43
115.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.17	0.00	0.064	0.000	35.213	0.00	1.98
115.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.064	0.000	35.213	0.00	0.47
115.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.064	0.000	35.213	0.00	1.79
115.00	1 5/8" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.064	0.000	35.213	0.00	1.98
115.00	1-1/4" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.064	0.000	35.213	0.00	1.72
116.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.17	0.00	0.064	0.000	35.300	0.00	1.98
116.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.064	0.000	35.300	0.00	0.47
116.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.064	0.000	35.300	0.00	1.79
116.00	1 5/8" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.064	0.000	35.300	0.00	1.98
116.00	1-1/4" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.064	0.000	35.300	0.00	1.72
118.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.065	0.000	35.473	0.00	3.96
118.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.065	0.000	35.473	0.00	0.94
118.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.065	0.000	35.473	0.00	3.58
118.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.065	0.000	35.473	0.00	3.96
118.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.065	0.000	35.473	0.00	3.43
120.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.066	0.000	35.643	0.00	3.96
120.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.066	0.000	35.643	0.00	0.94
120.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.066	0.000	35.643	0.00	3.58
120.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.066	0.000	35.643	0.00	3.96
120.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.066	0.000	35.643	0.00	3.43
122.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.067	0.000	35.812	0.00	3.96
122.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.067	0.000	35.812	0.00	0.94
122.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.067	0.000	35.812	0.00	3.58
122.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.067	0.000	35.812	0.00	3.96
122.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.067	0.000	35.812	0.00	3.43
124.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.067	0.000	35.979	0.00	3.96
124.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.067	0.000	35.979	0.00	0.94
124.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.067	0.000	35.979	0.00	3.58
124.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.067	0.000	35.979	0.00	3.96
124.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.067	0.000	35.979	0.00	3.43
126.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.068	0.000	36.144	0.00	3.96
126.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.068	0.000	36.144	0.00	0.94
126.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.068	0.000	36.144	0.00	3.58
126.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.068	0.000	36.144	0.00	3.96
126.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.068	0.000	36.144	0.00	3.43
128.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.069	0.000	36.307	0.00	3.96
128.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.069	0.000	36.307	0.00	0.94
128.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.069	0.000	36.307	0.00	3.58
128.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.069	0.000	36.307	0.00	3.96
128.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.069	0.000	36.307	0.00	3.43
130.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.070	0.000	36.468	0.00	3.96

Linear Appurtenance Segment Forces (Factored)

Structure: CT02049-S-SBA	Code: TIA-222-H	11/17/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



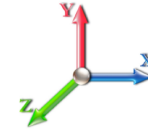
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Load Case: 0.9D + 1.0W 120 mph Wind

Iterations 27

Dead Load Factor 0.90

Wind Load Factor 1.00



Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
130.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.070	0.000	36.468	0.00	0.94
130.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.070	0.000	36.468	0.00	3.58
130.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.070	0.000	36.468	0.00	3.96
130.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.070	0.000	36.468	0.00	3.43
131.75	1 5/8" Hybrid	Yes	1.75	0.000	2.00	0.29	0.00	0.071	0.000	36.607	0.00	3.47
131.75	7/8" Coax	Yes	1.75	0.000	0.00	0.00	0.00	0.071	0.000	36.607	0.00	0.82
131.75	1.75" Hybrid	Yes	1.75	0.000	0.00	0.00	0.00	0.071	0.000	36.607	0.00	3.14
131.75	1 5/8" Fiber	Yes	1.75	0.000	0.00	0.00	0.00	0.071	0.000	36.607	0.00	3.47
131.75	1-1/4" Fiber	Yes	1.75	0.000	0.00	0.00	0.00	0.071	0.000	36.607	0.00	3.01
132.00	1 5/8" Hybrid	Yes	0.25	0.000	2.00	0.04	0.00	0.072	0.000	36.627	0.00	0.50
132.00	7/8" Coax	Yes	0.25	0.000	0.00	0.00	0.00	0.072	0.000	36.627	0.00	0.12
132.00	1.75" Hybrid	Yes	0.25	0.000	0.00	0.00	0.00	0.072	0.000	36.627	0.00	0.45
132.00	1 5/8" Fiber	Yes	0.25	0.000	0.00	0.00	0.00	0.072	0.000	36.627	0.00	0.50
132.00	1-1/4" Fiber	Yes	0.25	0.000	0.00	0.00	0.00	0.072	0.000	36.627	0.00	0.43
133.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.17	0.00	0.072	0.000	36.706	0.00	1.98
133.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.072	0.000	36.706	0.00	0.47
133.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.072	0.000	36.706	0.00	1.79
133.00	1 5/8" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.072	0.000	36.706	0.00	1.98
133.00	1-1/4" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.072	0.000	36.706	0.00	1.72
134.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.17	0.00	0.073	0.000	36.785	0.00	1.98
134.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.073	0.000	36.785	0.00	0.47
134.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.073	0.000	36.785	0.00	1.79
134.00	1 5/8" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.073	0.000	36.785	0.00	1.98
134.00	1-1/4" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.073	0.000	36.785	0.00	1.72
134.75	1 5/8" Hybrid	Yes	0.75	0.000	2.00	0.13	0.00	0.073	0.000	36.844	0.00	1.49
134.75	7/8" Coax	Yes	0.75	0.000	0.00	0.00	0.00	0.073	0.000	36.844	0.00	0.35
134.75	1.75" Hybrid	Yes	0.75	0.000	0.00	0.00	0.00	0.073	0.000	36.844	0.00	1.34
134.75	1 5/8" Fiber	Yes	0.75	0.000	0.00	0.00	0.00	0.073	0.000	36.844	0.00	1.49
134.75	1-1/4" Fiber	Yes	0.75	0.000	0.00	0.00	0.00	0.073	0.000	36.844	0.00	1.29
136.00	1 5/8" Hybrid	Yes	1.25	0.000	2.00	0.21	0.00	0.074	0.000	36.941	0.00	2.48
136.00	7/8" Coax	Yes	1.25	0.000	0.00	0.00	0.00	0.074	0.000	36.941	0.00	0.59
136.00	1.75" Hybrid	Yes	1.25	0.000	0.00	0.00	0.00	0.074	0.000	36.941	0.00	2.24
136.00	1 5/8" Fiber	Yes	1.25	0.000	0.00	0.00	0.00	0.074	0.000	36.941	0.00	2.48
136.00	1-1/4" Fiber	Yes	1.25	0.000	0.00	0.00	0.00	0.074	0.000	36.941	0.00	2.15
138.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.075	0.000	37.095	0.00	3.96
138.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	37.095	0.00	0.94
138.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	37.095	0.00	3.58
138.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	37.095	0.00	3.96
138.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	37.095	0.00	3.43
140.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.076	0.000	37.248	0.00	3.96
140.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.076	0.000	37.248	0.00	0.94
140.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.076	0.000	37.248	0.00	3.58
140.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.076	0.000	37.248	0.00	3.96
140.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.076	0.000	37.248	0.00	3.43
142.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.077	0.000	37.400	0.00	3.96
142.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	37.400	0.00	0.94
142.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	37.400	0.00	3.58

Linear Appurtenance Segment Forces (Factored)

Structure: CT02049-S-SBA	Code: TIA-222-H	11/17/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Load Case: 0.9D + 1.0W 120 mph Wind

Dead Load Factor 0.90
Wind Load Factor 1.00



Iterations 27

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
142.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	37.400	0.00	3.96
142.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	37.400	0.00	3.43
144.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.078	0.000	37.549	0.00	3.96
144.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	37.549	0.00	0.94
144.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	37.549	0.00	3.58
145.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.17	0.00	0.079	0.000	37.624	0.00	1.98
145.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.079	0.000	37.624	0.00	0.47
145.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.079	0.000	37.624	0.00	1.79
146.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.17	0.00	0.082	0.000	37.698	0.00	1.98
146.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.082	0.000	37.698	0.00	0.47
146.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.082	0.000	37.698	0.00	1.79
148.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.083	0.000	37.844	0.00	3.96
148.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.083	0.000	37.844	0.00	0.94
148.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.083	0.000	37.844	0.00	3.58
150.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.085	0.000	37.990	0.00	3.96
150.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.085	0.000	37.990	0.00	0.94
150.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.085	0.000	37.990	0.00	3.58
152.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.125	1.075	38.134	0.00	3.96
152.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.125	1.075	38.134	0.00	0.94
152.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.125	1.075	38.134	0.00	3.58
154.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.125	1.075	38.276	0.00	3.96
154.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.125	1.075	38.276	0.00	0.94
156.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.125	1.075	38.418	0.00	3.96
156.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.125	1.075	38.418	0.00	0.94
158.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.125	1.075	38.558	0.00	3.96
158.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.125	1.075	38.558	0.00	0.94
160.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.125	1.075	38.697	0.00	3.96
160.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.125	1.075	38.697	0.00	0.94
Totals:											0.0	19,330.5

Calculated Forces

Structure: CT02049-S-SBA	Code: TIA-222-H	11/17/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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80.00	-23.55	-26.42	0.00	-1548.0	0.00	1548.03	2384.58	636.50	1911.75	1750.88	24.51	-3.002	0.000	0.497
82.00	-22.95	-26.21	0.00	-1495.2	0.00	1495.20	2370.62	629.65	1870.81	1721.73	25.79	-3.082	0.000	0.545
84.00	-22.34	-26.01	0.00	-1442.7	0.00	1442.78	2356.42	622.80	1830.32	1692.63	27.10	-3.171	0.000	0.532
86.00	-21.74	-25.80	0.00	-1390.7	0.00	1390.76	2341.95	615.94	1790.27	1663.57	28.45	-3.259	0.000	0.519
88.00	-21.14	-25.60	0.00	-1339.1	0.00	1339.16	2327.23	609.09	1750.66	1634.56	29.83	-3.346	0.000	0.507
90.00	-20.54	-25.39	0.00	-1287.9	0.00	1287.97	2312.26	602.24	1711.49	1605.61	31.25	-3.432	0.000	0.494
92.00	-19.95	-25.18	0.00	-1237.1	0.00	1237.19	2297.03	595.39	1672.77	1576.72	32.70	-3.518	0.000	0.481
94.00	-19.37	-24.96	0.00	-1186.8	0.00	1186.83	2281.55	588.54	1634.49	1547.90	34.20	-3.603	0.000	0.467
95.00	-19.08	-24.86	0.00	-1161.8	0.00	1161.87	2273.71	585.11	1615.51	1533.52	34.95	-3.645	0.000	0.461
95.58	-18.85	-24.79	0.00	-1147.4	0.00	1147.45	2269.13	583.12	1604.56	1525.19	35.40	-3.669	0.000	0.450
95.58	-18.85	-24.79	0.00	-1147.4	0.00	1147.45	2269.13	583.12	1604.56	1525.19	35.40	-3.669	0.000	0.751
96.00	-18.66	-24.76	0.00	-1137.0	0.00	1137.04	2265.81	581.68	1596.65	1519.16	35.72	-3.687	0.000	0.759
98.00	-17.85	-24.55	0.00	-1087.5	0.00	1087.52	2249.81	574.83	1559.25	1490.50	37.30	-3.824	0.000	0.739
100.00	-17.32	-24.36	0.00	-1038.4	0.00	1038.42	2259.61	579.02	1582.04	1508.00	38.93	-3.961	0.000	0.698
102.00	-16.99	-24.17	0.00	-989.70	0.00	989.70	2243.52	572.17	1544.82	1479.37	40.61	-4.096	0.000	0.678
104.00	-16.66	-23.99	0.00	-941.36	0.00	941.36	2227.17	565.31	1508.04	1450.84	42.36	-4.222	0.000	0.658
106.00	-16.34	-23.80	0.00	-893.38	0.00	893.38	2210.57	558.46	1471.71	1422.40	44.15	-4.346	0.000	0.637
108.00	-16.02	-23.62	0.00	-845.77	0.00	845.77	2193.71	551.61	1435.82	1394.06	45.99	-4.467	0.000	0.616
110.00	-15.68	-23.23	0.00	-797.99	0.00	797.99	2176.60	544.76	1400.37	1365.84	47.89	-4.587	0.000	0.593
112.00	-15.37	-23.04	0.00	-751.54	0.00	751.54	2159.23	537.91	1365.36	1337.73	49.84	-4.704	0.000	0.571
114.00	-15.08	-22.85	0.00	-705.46	0.00	705.46	2141.61	531.05	1330.80	1309.73	51.83	-4.818	0.000	0.548
115.00	-14.93	-22.75	0.00	-682.62	0.00	682.62	2132.70	527.63	1313.68	1295.79	52.84	-4.875	0.000	0.536
115.00	-14.93	-22.75	0.00	-682.62	0.00	682.62	1556.62	422.98	1055.35	949.74	52.84	-4.875	0.000	0.731
116.00	-14.78	-22.67	0.00	-659.86	0.00	659.86	1551.43	420.24	1041.71	940.38	53.87	-4.930	0.000	0.714
118.00	-14.51	-22.50	0.00	-614.52	0.00	614.52	1540.84	414.76	1014.72	921.68	55.96	-5.065	0.000	0.679
120.00	-14.25	-22.32	0.00	-569.52	0.00	569.52	1529.99	409.28	988.07	902.99	58.11	-5.194	0.000	0.643
122.00	-13.99	-22.14	0.00	-524.89	0.00	524.89	1518.89	403.80	961.78	884.33	60.31	-5.319	0.000	0.606
124.00	-13.74	-21.96	0.00	-480.60	0.00	480.60	1507.54	398.32	935.85	865.70	62.56	-5.438	0.000	0.567
126.00	-13.49	-21.78	0.00	-436.68	0.00	436.68	1495.93	392.84	910.27	847.11	64.86	-5.551	0.000	0.528
128.00	-13.24	-21.60	0.00	-393.11	0.00	393.11	1484.06	387.35	885.04	828.56	67.21	-5.658	0.000	0.486
130.00	-13.00	-21.42	0.00	-349.90	0.00	349.90	1471.95	381.87	860.17	810.06	69.60	-5.758	0.000	0.444
131.75	-12.61	-20.90	0.00	-312.41	0.00	312.41	1461.13	377.08	838.70	793.92	71.72	-5.839	0.000	0.405
132.00	-12.57	-20.88	0.00	-307.19	0.00	307.19	1459.57	376.39	835.65	791.62	72.03	-5.850	0.000	0.400
133.00	-8.97	-16.43	0.00	-286.31	0.00	286.31	1453.29	373.65	823.53	782.42	73.25	-5.894	0.000	0.374
134.00	-8.87	-16.34	0.00	-269.88	0.00	269.88	1446.94	370.91	811.49	773.23	74.49	-5.936	0.000	0.357
134.75	-8.65	-15.97	0.00	-257.63	0.00	257.63	1442.14	368.85	802.52	766.35	75.43	-5.966	0.000	0.344
136.00	-8.52	-15.86	0.00	-237.66	0.00	237.66	1434.06	365.43	787.68	754.91	76.99	-6.014	0.000	0.323
138.00	-8.33	-15.68	0.00	-205.95	0.00	205.95	1420.92	359.95	764.23	736.67	79.52	-6.085	0.000	0.287
140.00	-8.15	-15.50	0.00	-174.59	0.00	174.59	1407.52	354.47	741.13	718.50	82.08	-6.149	0.000	0.251
142.00	-4.53	-9.23	0.00	-143.60	0.00	143.60	1393.87	348.98	718.38	700.42	84.67	-6.204	0.000	0.209
144.00	-4.38	-9.05	0.00	-125.14	0.00	125.14	1379.97	343.50	695.99	682.44	87.27	-6.254	0.000	0.187
145.00	-4.31	-8.96	0.00	-116.09	0.00	116.09	1372.92	340.76	684.93	673.48	88.58	-6.277	0.000	0.176
145.00	-4.31	-8.96	0.00	-116.09	0.00	116.09	931.20	332.53	24157.3	604.09	88.58	-6.277	0.000	0.198
146.00	-4.23	-8.91	0.00	-107.12	0.00	107.12	925.24	329.86	23770.3	594.77	89.89	-6.299	0.000	0.185
148.00	-4.08	-8.79	0.00	-89.31	0.00	89.31	913.32	324.51	23005.8	576.36	92.54	-6.341	0.000	0.160
150.00	-3.94	-8.68	0.00	-71.73	0.00	71.73	901.40	319.16	22253.7	558.24	95.20	-6.376	0.000	0.134
150.00	-3.94	-8.68	0.00	-71.73	0.00	71.73	556.65	167.00	10296.1	213.69	95.20	-6.376	0.000	0.345
152.00	-2.02	-5.62	0.00	-54.37	0.00	54.37	556.65	167.00	10296.1	213.69	97.87	-6.406	0.000	0.259
154.00	-1.91	-5.53	0.00	-43.14	0.00	43.14	556.65	167.00	10296.1	213.69	100.56	-6.478	0.000	0.206
156.00	-1.80	-5.45	0.00	-32.07	0.00	32.07	556.65	167.00	10296.1	213.69	103.28	-6.534	0.000	0.154
158.00	-1.70	-5.37	0.00	-21.17	0.00	21.17	556.65	167.00	10296.1	213.69	106.02	-6.573	0.000	0.103
160.00	0.00	-5.14	0.00	-10.43	0.00	10.43	556.65	167.00	10296.1	213.69	108.78	-6.597	0.000	0.050

Wind Loading - Shaft

Structure: CT02049-S-SBA	Code: TIA-222-H	11/17/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Load Case: 1.2D + 1.0Di + 1.0Wi 50 mph Wind

Iterations 26

Dead Load Factor 1.20
Wind Load Factor 1.00



Elev (ft)	Description	Kzt	Kz	qz (psf)	qzGh (psf)	C (mph-ft)	Cf	Ice Thick (in)	Tributary (ft)	Aa (sf)	CfAa (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)
0.00	RB1 RB2	1.00	0.70	4.161	4.58	0.00	1.200	0.000	0.00	0.000	0.00	0.0	0.0	0.0
1.00	RT2 RB3 RB4	1.00	0.70	4.161	4.58	0.00	1.227 *	0.705	1.00	4.455	5.47	25.0	45.3	291.4
2.00		1.00	0.70	4.161	4.58	0.00	1.229 *	0.756	1.00	4.447	5.46	25.0	48.5	293.6
4.00		1.00	0.70	4.161	4.58	0.00	1.231 *	0.810	2.00	8.862	10.91	49.9	103.2	590.5
6.00		1.00	0.70	4.161	4.58	0.00	1.234 *	0.843	2.00	8.806	10.87	49.7	106.7	590.2
8.00		1.00	0.70	4.161	4.58	0.00	1.237 *	0.868	2.00	8.747	10.82	49.5	109.0	588.7
10.00		1.00	0.70	4.161	4.58	0.00	1.240 *	0.887	2.00	8.687	10.78	49.3	110.7	586.5
12.00		1.00	0.70	4.161	4.58	0.00	1.244 *	0.904	2.00	8.625	10.73	49.1	111.8	583.9
14.00		1.00	0.70	4.161	4.58	0.00	1.247 *	0.918	2.00	8.563	10.68	48.9	112.7	580.9
16.00	Bot - Section 2	1.00	0.70	4.161	4.58	0.00	1.250 *	0.930	2.00	8.500	10.63	48.6	113.3	577.7
16.25	RT1 RB5	1.00	0.70	4.161	4.58	0.00	1.252 *	0.932	0.25	1.074	1.34	6.2	14.4	130.9
18.00		1.00	0.70	4.161	4.58	0.00	1.254 *	0.941	1.75	7.492	9.39	43.0	101.1	913.1
18.63	RB6	1.00	0.70	4.161	4.58	0.00	1.256 *	0.944	0.63	2.685	3.37	15.4	36.4	327.3
18.88	RT3 RT4	1.00	0.70	4.161	4.58	0.00	1.257 *	0.946	0.25	1.064	1.34	6.1	14.5	129.7
20.00		1.00	0.70	4.161	4.58	0.00	1.258 *	0.951	1.12	4.753	5.98	27.4	64.9	579.6
22.00	Top - Section 1	1.00	0.70	4.161	4.58	0.00	1.261 *	0.960	2.00	8.439	10.64	48.7	116.1	1029.2
24.00		1.00	0.70	4.161	4.58	0.00	1.257 *	0.969	2.00	8.374	10.53	48.2	116.2	572.6
26.00		1.00	0.70	4.161	4.58	0.00	1.261 *	0.976	2.00	8.310	10.48	48.0	116.2	568.8
28.00		1.00	0.70	4.161	4.58	0.00	1.264 *	0.984	2.00	8.246	10.43	47.7	116.1	564.9
30.00	RB7	1.00	0.70	4.164	4.58	0.00	1.364 *	0.991	2.00	8.181	11.15	51.1	115.9	560.9
31.00	RT5	1.00	0.71	4.203	4.62	0.00	1.367 *	0.994	1.00	4.066	5.56	25.7	57.9	279.0
32.00		1.00	0.71	4.242	4.67	0.00	1.369 *	0.997	1.00	4.050	5.54	25.9	57.9	278.0
33.38	RT6	1.00	0.72	4.293	4.72	0.00	1.200	1.001	1.38	5.562	6.67	31.5	79.7	381.9
34.00		1.00	0.73	4.316	4.75	0.00	1.200	1.003	0.62	2.489	2.99	14.2	35.8	170.9
36.00		1.00	0.74	4.387	4.83	0.00	1.200	1.009	2.00	7.986	9.58	46.2	115.1	548.6
38.00		1.00	0.75	4.455	4.90	0.00	1.200	1.014	2.00	7.921	9.51	46.6	114.8	544.4
40.00	Appurtenance(s)	1.00	0.76	4.521	4.97	0.00	1.200	1.019	2.00	7.856	9.43	46.9	114.4	540.2
42.00		1.00	0.77	4.584	5.04	0.00	1.200	1.024	2.00	7.790	9.35	47.1	113.9	536.0
44.00		1.00	0.78	4.646	5.11	0.00	1.200	1.029	2.00	7.725	9.27	47.4	113.5	531.7
45.16	RB8	1.00	0.79	4.680	5.15	0.00	1.200	1.032	1.16	4.450	5.34	27.5	65.6	306.4
46.00	RT7	1.00	0.79	4.705	5.18	0.00	1.200	1.034	0.84	3.209	3.85	19.9	47.4	221.0
48.00		1.00	0.80	4.763	5.24	0.00	1.200	1.038	2.00	7.594	9.11	47.7	112.4	523.0
50.00	Bot - Section 3	1.00	0.81	4.819	5.30	0.00	1.200	1.042	2.00	7.529	9.03	47.9	111.9	518.6
52.00		1.00	0.82	4.873	5.36	0.00	1.200	1.047	2.00	7.592	9.11	48.8	113.3	926.5
54.00		1.00	0.83	4.926	5.42	0.00	1.200	1.050	2.00	7.527	9.03	48.9	112.7	918.2
56.00	Top - Section 2	1.00	0.84	4.977	5.47	0.00	1.200	1.054	2.00	7.461	8.95	49.0	112.1	910.0
58.00	RT8 RB9	1.00	0.85	5.027	5.53	0.00	1.200	1.058	2.00	7.395	8.87	49.1	111.5	510.3
60.00		1.00	0.85	5.076	5.58	0.00	1.200	1.062	2.00	7.330	8.80	49.1	110.8	505.8
62.00		1.00	0.86	5.124	5.64	0.00	1.200	1.065	2.00	7.264	8.72	49.1	110.1	501.3
64.00		1.00	0.87	5.171	5.69	0.00	1.200	1.068	2.00	7.198	8.64	49.1	109.4	496.8
66.00		1.00	0.88	5.216	5.74	0.00	1.200	1.072	2.00	7.132	8.56	49.1	108.7	492.2
68.00		1.00	0.89	5.261	5.79	0.00	1.200	1.075	2.00	7.066	8.48	49.1	108.0	487.7
70.00		1.00	0.89	5.305	5.84	0.00	1.200	1.078	2.00	7.000	8.40	49.0	107.3	483.1
72.00		1.00	0.90	5.348	5.88	0.00	1.200	1.081	2.00	6.935	8.32	49.0	106.5	478.6
74.00		1.00	0.91	5.390	5.93	0.00	1.200	1.084	2.00	6.869	8.24	48.9	105.8	474.0
76.00		1.00	0.91	5.431	5.97	0.00	1.200	1.087	2.00	6.803	8.16	48.8	105.0	469.4
78.00	RT9 RB10	1.00	0.92	5.471	6.02	0.00	1.200	1.090	2.00	6.737	8.08	48.7	104.2	464.7

Wind Loading - Shaft

Structure: CT02049-S-SBA	Code: TIA-222-H	11/17/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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80.00 Top - Section 3	1.00	0.93	5.511	6.06	0.00	1.200	1.093	2.00	6.671	8.00	48.5	103.4	460.1
82.00	1.00	0.93	5.550	6.11	0.00	1.200	1.095	2.00	6.605	7.93	48.4	102.6	397.2
84.00	1.00	0.94	5.589	6.15	0.00	1.200	1.098	2.00	6.538	7.85	48.2	101.8	393.2
86.00	1.00	0.95	5.626	6.19	0.00	1.200	1.101	2.00	6.472	7.77	48.1	100.9	389.1
88.00	1.00	0.95	5.663	6.23	0.00	1.200	1.103	2.00	6.406	7.69	47.9	100.1	385.1
90.00	1.00	0.96	5.700	6.27	0.00	1.200	1.106	2.00	6.340	7.61	47.7	99.2	381.1
92.00	1.00	0.96	5.736	6.31	0.00	1.200	1.108	2.00	6.274	7.53	47.5	98.4	377.0
94.00	1.00	0.97	5.771	6.35	0.00	1.200	1.110	2.00	6.208	7.45	47.3	97.5	373.0
95.00 Bot - Section 5	1.00	0.97	5.789	6.37	0.00	1.200	1.112	1.00	3.079	3.69	23.5	48.5	185.1
95.58 RT10	1.00	0.98	5.799	6.38	0.00	1.200	1.112	0.58	1.810	2.17	13.9	28.6	187.7
96.00	1.00	0.98	5.806	6.39	0.00	1.200	1.113	0.42	1.307	1.57	10.0	20.7	135.6
98.00	1.00	0.98	5.840	6.42	0.00	1.200	1.115	2.00	6.183	7.42	47.7	97.5	640.8
100.00 Top - Section 4	1.00	0.99	5.874	6.46	0.00	1.200	1.117	2.00	6.117	7.34	47.4	96.6	633.5
102.00	1.00	0.99	5.907	6.50	0.00	1.200	1.119	2.00	6.051	7.26	47.2	95.7	363.5
104.00	1.00	1.00	5.940	6.53	0.00	1.200	1.122	2.00	5.985	7.18	46.9	94.8	359.4
106.00	1.00	1.00	5.973	6.57	0.00	1.200	1.124	2.00	5.918	7.10	46.7	93.9	355.3
108.00	1.00	1.01	6.005	6.61	0.00	1.200	1.126	2.00	5.852	7.02	46.4	92.9	351.2
110.00 Appurtenance(s)	1.00	1.02	6.036	6.64	0.00	1.200	1.128	2.00	5.786	6.94	46.1	92.0	347.1
112.00	1.00	1.02	6.067	6.67	0.00	1.200	1.130	2.00	5.720	6.86	45.8	91.1	343.0
114.00	1.00	1.03	6.098	6.71	0.00	1.200	1.132	2.00	5.653	6.78	45.5	90.1	338.8
115.00 Top - Section 5	1.00	1.03	6.113	6.72	0.00	1.200	1.133	1.00	2.802	3.36	22.6	44.8	168.0
116.00	1.00	1.03	6.128	6.74	0.00	1.200	1.134	1.00	2.785	3.34	22.5	44.6	142.7
118.00	1.00	1.04	6.158	6.77	0.00	1.200	1.136	2.00	5.521	6.63	44.9	88.2	282.5
120.00	1.00	1.04	6.188	6.81	0.00	1.200	1.138	2.00	5.455	6.55	44.6	87.3	279.0
122.00	1.00	1.05	6.217	6.84	0.00	1.200	1.140	2.00	5.388	6.47	44.2	86.3	275.5
124.00	1.00	1.05	6.246	6.87	0.00	1.200	1.142	2.00	5.322	6.39	43.9	85.3	271.9
126.00	1.00	1.06	6.275	6.90	0.00	1.200	1.143	2.00	5.256	6.31	43.5	84.3	268.4
128.00	1.00	1.06	6.303	6.93	0.00	1.200	1.145	2.00	5.189	6.23	43.2	83.4	264.9
130.00	1.00	1.07	6.331	6.96	0.00	1.200	1.147	2.00	5.123	6.15	42.8	82.4	261.3
131.75 Appurtenance(s)	1.00	1.07	6.355	6.99	0.00	1.200	1.148	1.75	4.428	5.31	37.1	71.3	225.8
132.00	1.00	1.07	6.359	6.99	0.00	1.200	1.149	0.25	0.628	0.75	5.3	10.2	32.1
133.00 Appurtenance(s)	1.00	1.07	6.373	7.01	0.00	1.200	1.150	1.00	2.503	3.00	21.1	40.4	127.7
134.00	1.00	1.07	6.386	7.02	0.00	1.200	1.150	1.00	2.487	2.98	21.0	40.2	126.8
134.75 Appurtenance(s)	1.00	1.08	6.396	7.04	0.00	1.200	1.151	0.75	1.854	2.22	15.7	30.0	94.5
136.00	1.00	1.08	6.413	7.05	0.00	1.200	1.152	1.25	3.069	3.68	26.0	49.6	156.4
138.00	1.00	1.08	6.440	7.08	0.00	1.200	1.154	2.00	4.857	5.83	41.3	78.3	247.1
140.00	1.00	1.09	6.467	7.11	0.00	1.200	1.155	2.00	4.791	5.75	40.9	77.3	243.6
142.00 Appurtenance(s)	1.00	1.09	6.493	7.14	0.00	1.200	1.157	2.00	4.725	5.67	40.5	76.3	240.0
144.00	1.00	1.10	6.519	7.17	0.00	1.200	1.159	2.00	4.658	5.59	40.1	75.3	236.4
145.00 Top - Section 6	1.00	1.10	6.532	7.19	0.00	1.200	1.160	1.00	2.304	2.76	19.9	37.4	117.0
146.00	1.00	1.10	6.545	7.20	0.00	1.200	1.160	1.00	2.217	2.66	19.1	35.9	113.0
148.00	1.00	1.11	6.570	7.23	0.00	1.200	1.162	2.00	4.385	5.26	38.0	70.8	223.1
150.00 Top - Section 7	1.00	1.11	6.595	7.25	0.00	1.200	1.163	2.00	4.321	5.19	37.6	69.8	219.6
152.00 Appurtenance(s)	1.00	1.11	6.620	7.28	0.00	1.290 *	1.165	2.00	3.055	3.94	28.7	48.9	149.9
154.00	1.00	1.12	6.645	7.31	0.00	1.290 *	1.167	2.00	3.056	3.94	28.8	48.9	150.0
156.00	1.00	1.12	6.670	7.34	0.00	1.290 *	1.168	2.00	3.056	3.94	28.9	49.0	150.0
158.00	1.00	1.13	6.694	7.36	0.00	1.290 *	1.170	2.00	3.057	3.94	29.0	49.1	150.1
160.00 Appurtenance(s)	1.00	1.13	6.718	7.39	0.00	1.290 *	1.171	2.00	3.057	3.94	29.1	49.1	150.2

* Cf Adjusted by Linear Load Ra Effect

Totals:	160.00	3,648.1	36,322.9
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Discrete Appurtenance Forces

Structure: CT02049-S-SBA	Code: TIA-222-H	11/17/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



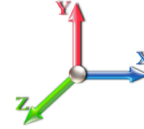
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Load Case: 1.2D + 1.0Di + 1.0Wi 50 mph Wind

Iterations 26

Dead Load Factor 1.20

Wind Load Factor 1.00



No.	Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	Orient Factor x Ka	Ka	Total CaAa (sf)	Dead Load (lb)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)
1	160.00	VZS01	3	6.742	7.416	0.62	0.90	9.91	537.95	0.000	2.000	73.53	0.00	147.06
2	160.00	DB222	1	6.778	7.455	1.00	1.00	6.32	45.80	0.000	5.000	47.10	0.00	235.48
3	160.00	DB846F65ZAXY	6	6.742	7.416	0.84	0.90	39.43	895.51	0.000	2.000	292.39	0.00	584.79
4	160.00	Low Profile Platform	1	6.742	7.416	1.00	1.00	33.85	1542.61	0.000	2.000	251.05	0.00	502.09
5	160.00	JAHH-65B-R3B	6	6.742	7.416	0.75	0.90	33.28	1077.31	0.000	2.000	246.85	0.00	493.69
6	160.00	6' Lightning rod	1	6.754	7.429	1.00	1.00	1.11	26.86	0.000	3.000	8.24	0.00	24.73
7	160.00	CBC78T-DS-43	1	6.742	7.416	1.00	1.00	0.55	42.43	0.000	2.000	4.05	0.00	8.10
8	160.00	B2/B66A RRH-BR049	3	6.742	7.416	0.60	0.90	4.06	380.13	0.000	2.000	30.10	0.00	60.19
9	160.00	B5/B13 RRH-BR04C	3	6.742	7.416	0.60	0.90	4.06	445.96	0.000	2.000	30.10	0.00	60.19
10	160.00	Commscope	1	6.742	7.416	1.00	1.00	2.23	60.39	0.000	2.000	16.57	0.00	33.15
11	152.00	MC-PK8-DSH	1	6.620	7.282	1.00	1.00	69.12	2826.11	0.000	0.000	503.37	0.00	0.00
12	152.00	MX08FRO665-21	3	6.620	7.282	0.55	0.75	22.42	613.11	0.000	0.000	163.30	0.00	0.00
13	152.00	TA08025-B605	3	6.620	7.282	0.50	0.75	3.52	336.95	0.000	0.000	25.63	0.00	0.00
14	152.00	TA08025-B604	3	6.620	7.282	0.50	0.75	3.52	295.13	0.000	0.000	25.63	0.00	0.00
15	152.00	RDIDC-9181-OF-48	1	6.620	7.282	0.75	0.75	1.79	49.13	0.000	0.000	13.05	0.00	0.00
16	142.00	Ericsson 4460 B25 + B66	4	6.493	7.142	0.50	0.75	6.63	645.90	0.000	0.000	47.33	0.00	0.00
17	142.00	Ericsson Air 6419 B41	4	6.493	7.142	0.57	0.75	9.87	481.64	0.000	0.000	70.47	0.00	0.00
18	142.00	Mod	1	6.493	7.142	1.00	1.00	20.33	727.71	0.000	0.000	145.21	0.00	0.00
19	142.00	4449 B71 + B85	4	6.493	7.142	0.54	0.80	5.03	270.90	0.000	0.000	35.95	0.00	0.00
20	142.00	KRY 112 144/1	3	6.493	7.142	0.38	0.75	0.82	51.74	0.000	0.000	5.83	0.00	0.00
21	142.00	APXVA18-43-C-A20	1	6.493	7.142	0.63	0.75	6.63	154.54	0.000	0.000	47.36	0.00	0.00
22	142.00	APXVAARR24_43-U-NA2	3	6.493	7.142	0.54	0.75	40.38	1045.57	0.000	0.000	288.38	0.00	0.00
23	142.00	KRD 9011461-B66A-B2A	4	6.493	7.142	0.67	0.75	21.40	1693.93	0.000	0.000	152.87	0.00	0.00
24	142.00	Platform w/ HR & Bracing	1	6.493	7.142	1.00	1.00	77.51	3770.31	0.000	0.000	553.61	0.00	0.00
25	134.75	AIR 6419 B77G	3	6.396	7.036	0.61	0.80	7.89	360.23	0.000	0.000	55.51	0.00	0.00
26	133.00	DMP65R-BU6EA-K	2	6.373	7.010	0.57	0.80	20.73	732.00	0.000	0.000	145.32	0.00	0.00
27	133.00	DMP65R-BU8EA-K	1	6.373	7.010	0.58	0.80	11.13	472.15	0.000	0.000	78.00	0.00	0.00
28	133.00	Kathrein 800-10965	3	6.373	7.010	0.57	0.80	25.28	950.47	0.000	0.000	177.22	0.00	0.00
29	133.00	(3) SitePro 1 P/N	2	6.373	7.010	0.56	0.75	43.88	4522.34	0.000	0.000	307.58	0.00	0.00
30	133.00	Powerwave LGP21401	6	6.373	7.010	0.54	0.80	5.92	157.73	0.000	0.000	41.49	0.00	0.00
31	133.00	Ericsson RRUS-32 RRU	3	6.373	7.010	0.54	0.80	6.15	486.09	0.000	0.000	43.09	0.00	0.00
32	133.00	Ericsson B2/B66A 8843	3	6.373	7.010	0.54	0.80	3.16	315.77	0.000	0.000	22.18	0.00	0.00
33	133.00	Ericsson B5/B12 4449	3	6.373	7.010	0.54	0.80	3.75	320.28	0.000	0.000	26.27	0.00	0.00
34	133.00	Raycap DC6-48-60-18-8F	2	6.373	7.010	0.54	0.80	1.30	122.37	0.000	0.000	9.08	0.00	0.00
35	133.00	4478 B14	3	6.373	7.010	0.54	0.80	3.52	273.42	0.000	0.000	24.65	0.00	0.00
36	133.00	DC9-48-60-24-8C-EV	1	6.373	7.010	0.80	0.80	1.75	84.15	0.000	0.000	12.25	0.00	0.00
37	131.75	AIR 6449 B77D	3	6.355	6.991	0.68	0.80	9.55	571.43	0.000	0.000	66.77	0.00	0.00
38	110.00	3 ft Standoff	1	6.036	6.640	1.00	1.00	6.49	76.89	0.000	0.000	43.08	0.00	0.00
39	110.00	DB222	1	6.118	6.729	1.00	1.00	7.26	44.09	0.000	5.292	48.88	0.00	258.67
40	40.00	GPS	1	4.521	4.973	1.00	1.00	1.42	21.13	0.000	0.000	7.04	0.00	0.00

Totals: 27,528.13

4,186.37

Total Applied Force Summary

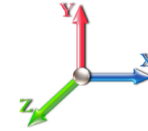
Structure: CT02049-S-SBA	Code: TIA-222-H	11/17/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Load Case: 1.2D + 1.0Di + 1.0Wi 50 mph Wind

Dead Load Factor 1.20
Wind Load Factor 1.00



Iterations 26

Elev (ft)	Description	Lateral FX (-) (lb)	Axial FY (-) (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)
0.00		0.00	0.00	0.00	0.00
1.00		25.03	730.33	0.00	0.00
2.00		25.01	734.04	0.00	0.00
4.00		49.93	1474.94	0.00	0.00
6.00		49.74	1476.81	0.00	0.00
8.00		49.53	1476.94	0.00	0.00
10.00		49.32	1476.06	0.00	0.00
12.00		49.09	1474.53	0.00	0.00
14.00		48.87	1472.54	0.00	0.00
16.00		48.64	1470.19	0.00	0.00
16.25		6.16	242.45	0.00	0.00
18.00		42.99	1694.72	0.00	0.00
18.63		15.43	608.77	0.00	0.00
18.88		6.12	241.38	0.00	0.00
20.00		27.36	1080.23	0.00	0.00
22.00		48.69	1923.84	0.00	0.00
24.00		48.19	1467.80	0.00	0.00
26.00		47.95	1464.52	0.00	0.00
28.00		47.72	1461.13	0.00	0.00
30.00		51.10	1826.59	0.00	0.00
31.00		25.70	911.95	0.00	0.00
32.00		25.87	911.06	0.00	0.00
33.38		31.52	747.50	0.00	0.00
34.00		14.18	335.25	0.00	0.00
36.00		46.25	1078.99	0.00	0.00
38.00		46.58	1075.15	0.00	0.00
40.00	(1) attachments	53.92	1092.38	0.00	0.00
42.00		47.14	1066.92	0.00	0.00
44.00		47.37	1062.93	0.00	0.00
45.16		27.50	614.68	0.00	0.00
46.00		19.93	444.27	0.00	0.00
48.00		47.74	1054.83	0.00	0.00
50.00		47.89	1050.72	0.00	0.00
52.00		48.84	1458.86	0.00	0.00
54.00		48.94	1450.86	0.00	0.00
56.00		49.02	1442.84	0.00	0.00
58.00		49.08	1043.38	0.00	0.00
60.00		49.11	1039.14	0.00	0.00
62.00		49.13	1034.86	0.00	0.00
64.00		49.13	1030.57	0.00	0.00
66.00		49.11	1026.25	0.00	0.00
68.00		49.07	1021.91	0.00	0.00
70.00		49.02	1017.55	0.00	0.00
72.00		48.95	1013.17	0.00	0.00
74.00		48.87	1008.77	0.00	0.00
76.00		48.77	1004.36	0.00	0.00
78.00		48.65	999.93	0.00	0.00

Total Applied Force Summary

Structure: CT02049-S-SBA	Code: TIA-222-H	11/17/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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80.00		48.53	995.49	0.00	0.00
82.00		48.39	932.72	0.00	0.00
84.00		48.23	928.89	0.00	0.00
86.00		48.07	925.03	0.00	0.00
88.00		47.89	921.17	0.00	0.00
90.00		47.70	917.29	0.00	0.00
92.00		47.50	913.40	0.00	0.00
94.00		47.29	909.50	0.00	0.00
95.00		23.53	453.37	0.00	0.00
95.58		13.85	343.36	0.00	0.00
96.00		10.02	248.27	0.00	0.00
98.00		47.67	1177.65	0.00	0.00
100.00		47.43	800.18	0.00	0.00
102.00		47.18	530.31	0.00	0.00
104.00		46.93	526.34	0.00	0.00
106.00		46.66	522.35	0.00	0.00
108.00		46.39	518.35	0.00	0.00
110.00	(2) attachments	138.06	635.33	0.00	258.67
112.00		45.81	503.81	0.00	0.00
114.00		45.51	499.78	0.00	0.00
115.00		22.61	248.48	0.00	0.00
116.00		22.53	223.20	0.00	0.00
118.00		44.88	443.62	0.00	0.00
120.00		44.55	440.20	0.00	0.00
122.00		44.22	436.78	0.00	0.00
124.00		43.88	433.34	0.00	0.00
126.00		43.53	429.90	0.00	0.00
128.00		43.18	426.45	0.00	0.00
130.00		42.81	422.99	0.00	0.00
131.75	(3) attachments	103.92	938.76	0.00	0.00
132.00		5.27	52.30	0.00	0.00
133.00	(29) attachments	908.18	8645.35	0.00	0.00
134.00		20.96	191.73	0.00	0.00
134.75	(3) attachments	71.16	503.47	0.00	0.00
136.00		25.99	237.59	0.00	0.00
138.00		41.29	377.14	0.00	0.00
140.00		40.90	373.66	0.00	0.00
142.00	(25) attachments	1387.51	9212.40	0.00	0.00
144.00		40.08	314.40	0.00	0.00
145.00		19.87	156.00	0.00	0.00
146.00		19.15	152.00	0.00	0.00
148.00		38.03	301.19	0.00	0.00
150.00		37.62	297.74	0.00	0.00
152.00	(11) attachments	759.68	4348.49	0.00	0.00
154.00		28.81	216.38	0.00	0.00
156.00		28.92	216.47	0.00	0.00
158.00		29.03	216.57	0.00	0.00
160.00	(26) attachments	1029.11	5271.60	0.00	2149.46
Totals:		7,834.44	100,567.6	0.00	2,408.14

Linear Appurtenance Segment Forces (Factored)

Structure: CT02049-S-SBA	Code: TIA-222-H	11/17/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



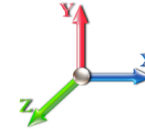
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Load Case: 1.2D + 1.0Di + 1.0Wi 50 mph Wind

Iterations 26

Dead Load Factor 1.20

Wind Load Factor 1.00



Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
1.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.28	0.00	0.108	1.023	4.161	0.00	6.11
1.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.108	1.023	4.161	0.00	1.94
1.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.108	1.023	4.161	0.00	4.21
1.00	1 5/8" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.108	1.023	4.161	0.00	6.11
1.00	1-1/4" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.108	1.023	4.161	0.00	4.53
1.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.108	1.023	4.161	0.00	1.94
1.00	1" Reinforcing plate	Yes	1.00	0.000	1.00	0.20	0.00	0.108	1.023	4.161	0.00	146.50
1.00	C10x15.3	Yes	1.00	0.000	2.60	0.33	0.00	0.108	1.023	4.161	0.00	219.05
2.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.29	0.00	0.108	1.024	4.161	0.00	6.36
2.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.108	1.024	4.161	0.00	2.08
2.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.108	1.024	4.161	0.00	4.37
2.00	1 5/8" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.108	1.024	4.161	0.00	6.36
2.00	1-1/4" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.108	1.024	4.161	0.00	4.72
2.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.108	1.024	4.161	0.00	2.08
2.00	1" Reinforcing plate	Yes	1.00	0.000	1.00	0.21	0.00	0.108	1.024	4.161	0.00	146.71
2.00	C10x15.3	Yes	1.00	0.000	2.60	0.34	0.00	0.108	1.024	4.161	0.00	219.29
4.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.60	0.00	0.109	1.026	4.161	0.00	13.26
4.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.109	1.026	4.161	0.00	4.45
4.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.109	1.026	4.161	0.00	9.10
4.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.109	1.026	4.161	0.00	13.26
4.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.109	1.026	4.161	0.00	9.85
4.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.109	1.026	4.161	0.00	4.45
4.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.44	0.00	0.109	1.026	4.161	0.00	293.88
4.00	C10x15.3	Yes	2.00	0.000	2.60	0.70	0.00	0.109	1.026	4.161	0.00	439.11
6.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.61	0.00	0.109	1.028	4.161	0.00	13.60
6.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.109	1.028	4.161	0.00	4.65
6.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.109	1.028	4.161	0.00	9.32
6.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.109	1.028	4.161	0.00	13.60
6.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.109	1.028	4.161	0.00	10.12
6.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.109	1.028	4.161	0.00	4.65
6.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.45	0.00	0.109	1.028	4.161	0.00	294.17
6.00	C10x15.3	Yes	2.00	0.000	2.60	0.71	0.00	0.109	1.028	4.161	0.00	439.44
8.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.62	0.00	0.110	1.031	4.161	0.00	13.86
8.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.110	1.031	4.161	0.00	4.79
8.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.110	1.031	4.161	0.00	9.49
8.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.110	1.031	4.161	0.00	13.86
8.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.110	1.031	4.161	0.00	10.32
8.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.110	1.031	4.161	0.00	4.79
8.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.46	0.00	0.110	1.031	4.161	0.00	294.39
8.00	C10x15.3	Yes	2.00	0.000	2.60	0.72	0.00	0.110	1.031	4.161	0.00	439.69
10.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.63	0.00	0.111	1.034	4.161	0.00	14.06
10.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.111	1.034	4.161	0.00	4.91
10.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.111	1.034	4.161	0.00	9.63
10.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.111	1.034	4.161	0.00	14.06
10.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.111	1.034	4.161	0.00	10.48
10.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.111	1.034	4.161	0.00	4.91
10.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.46	0.00	0.111	1.034	4.161	0.00	294.57

Linear Appurtenance Segment Forces (Factored)

Structure: CT02049-S-SBA	Code: TIA-222-H	11/17/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



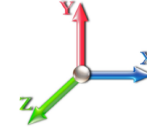
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Load Case: 1.2D + 1.0Di + 1.0Wi 50 mph Wind

Iterations 26

Dead Load Factor 1.20

Wind Load Factor 1.00



Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
10.00	C10x15.3	Yes	2.00	0.000	2.60	0.73	0.00	0.111	1.034	4.161	0.00	439.88
12.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.63	0.00	0.112	1.036	4.161	0.00	14.23
12.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.112	1.036	4.161	0.00	5.01
12.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.112	1.036	4.161	0.00	9.75
12.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.112	1.036	4.161	0.00	14.23
12.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.112	1.036	4.161	0.00	10.61
12.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.112	1.036	4.161	0.00	5.01
12.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.47	0.00	0.112	1.036	4.161	0.00	294.71
12.00	C10x15.3	Yes	2.00	0.000	2.60	0.73	0.00	0.112	1.036	4.161	0.00	440.05
14.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.64	0.00	0.113	1.039	4.161	0.00	14.38
14.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.113	1.039	4.161	0.00	5.10
14.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.113	1.039	4.161	0.00	9.85
14.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.113	1.039	4.161	0.00	14.38
14.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.113	1.039	4.161	0.00	10.73
14.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.113	1.039	4.161	0.00	5.10
14.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.47	0.00	0.113	1.039	4.161	0.00	294.84
14.00	C10x15.3	Yes	2.00	0.000	2.60	0.74	0.00	0.113	1.039	4.161	0.00	440.19
16.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.64	0.00	0.114	1.042	4.161	0.00	14.52
16.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.114	1.042	4.161	0.00	5.17
16.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.114	1.042	4.161	0.00	9.94
16.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.114	1.042	4.161	0.00	14.52
16.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.114	1.042	4.161	0.00	10.83
16.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.114	1.042	4.161	0.00	5.17
16.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.48	0.00	0.114	1.042	4.161	0.00	294.96
16.00	C10x15.3	Yes	2.00	0.000	2.60	0.74	0.00	0.114	1.042	4.161	0.00	440.32
16.25	1 5/8" Hybrid	Yes	0.25	0.000	2.00	0.08	0.00	0.114	1.043	4.161	0.00	1.82
16.25	7/8" Coax	Yes	0.25	0.000	0.00	0.00	0.00	0.114	1.043	4.161	0.00	0.65
16.25	1.75" Hybrid	Yes	0.25	0.000	0.00	0.00	0.00	0.114	1.043	4.161	0.00	1.24
16.25	1 5/8" Fiber	Yes	0.25	0.000	0.00	0.00	0.00	0.114	1.043	4.161	0.00	1.82
16.25	1-1/4" Fiber	Yes	0.25	0.000	0.00	0.00	0.00	0.114	1.043	4.161	0.00	1.36
16.25	7/8" Coax	Yes	0.25	0.000	0.00	0.00	0.00	0.114	1.043	4.161	0.00	0.65
16.25	1" Reinforcing plate	Yes	0.25	0.000	1.00	0.06	0.00	0.114	1.043	4.161	0.00	36.87
16.25	C10x15.3	Yes	0.25	0.000	2.60	0.09	0.00	0.114	1.043	4.161	0.00	55.04
18.00	1 5/8" Hybrid	Yes	1.75	0.000	2.00	0.57	0.00	0.115	1.045	4.161	0.00	12.81
18.00	7/8" Coax	Yes	1.75	0.000	0.00	0.00	0.00	0.115	1.045	4.161	0.00	4.59
18.00	1.75" Hybrid	Yes	1.75	0.000	0.00	0.00	0.00	0.115	1.045	4.161	0.00	8.76
18.00	1 5/8" Fiber	Yes	1.75	0.000	0.00	0.00	0.00	0.115	1.045	4.161	0.00	12.81
18.00	1-1/4" Fiber	Yes	1.75	0.000	0.00	0.00	0.00	0.115	1.045	4.161	0.00	9.56
18.00	7/8" Coax	Yes	1.75	0.000	0.00	0.00	0.00	0.115	1.045	4.161	0.00	4.59
18.00	1" Reinforcing plate	Yes	1.75	0.000	1.00	0.42	0.00	0.115	1.045	4.161	0.00	258.18
18.00	C10x15.3	Yes	1.75	0.000	2.60	0.65	0.00	0.115	1.045	4.161	0.00	385.38
18.63	1 5/8" Hybrid	Yes	0.63	0.000	2.00	0.20	0.00	0.116	1.047	4.161	0.00	4.62
18.63	7/8" Coax	Yes	0.63	0.000	0.00	0.00	0.00	0.116	1.047	4.161	0.00	1.66
18.63	1.75" Hybrid	Yes	0.63	0.000	0.00	0.00	0.00	0.116	1.047	4.161	0.00	3.16
18.63	1 5/8" Fiber	Yes	0.63	0.000	0.00	0.00	0.00	0.116	1.047	4.161	0.00	4.62
18.63	1-1/4" Fiber	Yes	0.63	0.000	0.00	0.00	0.00	0.116	1.047	4.161	0.00	3.45
18.63	7/8" Coax	Yes	0.63	0.000	0.00	0.00	0.00	0.116	1.047	4.161	0.00	1.66

Linear Appurtenance Segment Forces (Factored)

Structure: CT02049-S-SBA	Code: TIA-222-H	11/17/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



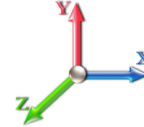
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Load Case: 1.2D + 1.0Di + 1.0Wi 50 mph Wind

Iterations 26

Dead Load Factor 1.20

Wind Load Factor 1.00



Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
18.63	1" Reinforcing plate	Yes	0.63	0.000	1.00	0.15	0.00	0.116	1.047	4.161	0.00	92.95
18.63	C10x15.3	Yes	0.63	0.000	2.60	0.24	0.00	0.116	1.047	4.161	0.00	138.75
18.88	1 5/8" Hybrid	Yes	0.25	0.000	2.00	0.08	0.00	0.116	1.047	4.161	0.00	1.84
18.88	7/8" Coax	Yes	0.25	0.000	0.00	0.00	0.00	0.116	1.047	4.161	0.00	0.66
18.88	1.75" Hybrid	Yes	0.25	0.000	0.00	0.00	0.00	0.116	1.047	4.161	0.00	1.26
18.88	1 5/8" Fiber	Yes	0.25	0.000	0.00	0.00	0.00	0.116	1.047	4.161	0.00	1.84
18.88	1-1/4" Fiber	Yes	0.25	0.000	0.00	0.00	0.00	0.116	1.047	4.161	0.00	1.37
18.88	7/8" Coax	Yes	0.25	0.000	0.00	0.00	0.00	0.116	1.047	4.161	0.00	0.66
18.88	1" Reinforcing plate	Yes	0.25	0.000	1.00	0.06	0.00	0.116	1.047	4.161	0.00	36.89
18.88	C10x15.3	Yes	0.25	0.000	2.60	0.09	0.00	0.116	1.047	4.161	0.00	55.06
20.00	1 5/8" Hybrid	Yes	1.12	0.000	2.00	0.36	0.00	0.116	1.048	4.161	0.00	8.26
20.00	7/8" Coax	Yes	1.12	0.000	0.00	0.00	0.00	0.116	1.048	4.161	0.00	2.97
20.00	1.75" Hybrid	Yes	1.12	0.000	0.00	0.00	0.00	0.116	1.048	4.161	0.00	5.65
20.00	1 5/8" Fiber	Yes	1.12	0.000	0.00	0.00	0.00	0.116	1.048	4.161	0.00	8.26
20.00	1-1/4" Fiber	Yes	1.12	0.000	0.00	0.00	0.00	0.116	1.048	4.161	0.00	6.17
20.00	7/8" Coax	Yes	1.12	0.000	0.00	0.00	0.00	0.116	1.048	4.161	0.00	2.97
20.00	1" Reinforcing plate	Yes	1.12	0.000	1.00	0.27	0.00	0.116	1.048	4.161	0.00	165.28
20.00	C10x15.3	Yes	1.12	0.000	2.60	0.42	0.00	0.116	1.048	4.161	0.00	246.70
22.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.65	0.00	0.117	1.050	4.161	0.00	14.84
22.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.117	1.050	4.161	0.00	5.36
22.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.117	1.050	4.161	0.00	10.16
22.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.117	1.050	4.161	0.00	14.84
22.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.117	1.050	4.161	0.00	11.09
22.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.117	1.050	4.161	0.00	5.36
22.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.49	0.00	0.117	1.050	4.161	0.00	295.24
22.00	C10x15.3	Yes	2.00	0.000	2.60	0.75	0.00	0.117	1.050	4.161	0.00	440.64
24.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.66	0.00	0.116	1.048	4.161	0.00	14.94
24.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.116	1.048	4.161	0.00	5.42
24.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.116	1.048	4.161	0.00	10.22
24.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.116	1.048	4.161	0.00	14.94
24.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.116	1.048	4.161	0.00	11.16
24.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.116	1.048	4.161	0.00	5.42
24.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.49	0.00	0.116	1.048	4.161	0.00	295.31
24.00	C10x15.3	Yes	2.00	0.000	2.60	0.76	0.00	0.116	1.048	4.161	0.00	440.73
26.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.66	0.00	0.117	1.051	4.161	0.00	15.02
26.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.117	1.051	4.161	0.00	5.47
26.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.117	1.051	4.161	0.00	10.28
26.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.117	1.051	4.161	0.00	15.02
26.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.117	1.051	4.161	0.00	11.23
26.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.117	1.051	4.161	0.00	5.47
26.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.49	0.00	0.117	1.051	4.161	0.00	295.39
26.00	C10x15.3	Yes	2.00	0.000	2.60	0.76	0.00	0.117	1.051	4.161	0.00	440.81
28.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.66	0.00	0.118	1.054	4.161	0.00	15.10
28.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.118	1.054	4.161	0.00	5.52
28.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.118	1.054	4.161	0.00	10.33
28.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.118	1.054	4.161	0.00	15.10
28.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.118	1.054	4.161	0.00	11.29

Linear Appurtenance Segment Forces (Factored)

Structure: CT02049-S-SBA	Code: TIA-222-H	11/17/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II

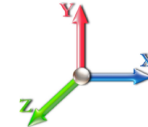


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Load Case: 1.2D + 1.0Di + 1.0Wi 50 mph Wind

Iterations 26

Dead Load Factor 1.20
Wind Load Factor 1.00



Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
28.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.118	1.054	4.161	0.00	5.52
28.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.49	0.00	0.118	1.054	4.161	0.00	295.46
28.00	C10x15.3	Yes	2.00	0.000	2.60	0.76	0.00	0.118	1.054	4.161	0.00	440.89
30.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.66	0.00	0.145	1.136	4.164	0.00	15.18
30.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.145	1.136	4.164	0.00	5.56
30.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.145	1.136	4.164	0.00	10.38
30.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.145	1.136	4.164	0.00	15.18
30.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.145	1.136	4.164	0.00	11.35
30.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.145	1.136	4.164	0.00	5.56
30.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.54	0.00	0.145	1.136	4.164	0.00	368.96
30.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.50	0.00	0.145	1.136	4.164	0.00	295.52
30.00	C10x15.3	Yes	2.00	0.000	2.60	0.76	0.00	0.145	1.136	4.164	0.00	440.96
31.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.33	0.00	0.146	1.139	4.203	0.00	7.61
31.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.146	1.139	4.203	0.00	2.79
31.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.146	1.139	4.203	0.00	5.20
31.00	1 5/8" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.146	1.139	4.203	0.00	7.61
31.00	1-1/4" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.146	1.139	4.203	0.00	5.69
31.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.146	1.139	4.203	0.00	2.79
31.00	1.25" Reinforcing	Yes	1.00	0.000	1.25	0.27	0.00	0.146	1.139	4.203	0.00	184.50
31.00	1" Reinforcing plate	Yes	1.00	0.000	1.00	0.25	0.00	0.146	1.139	4.203	0.00	147.78
31.00	C10x15.3	Yes	1.00	0.000	2.60	0.38	0.00	0.146	1.139	4.203	0.00	220.50
32.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.33	0.00	0.147	1.141	4.242	0.00	7.62
32.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.147	1.141	4.242	0.00	2.80
32.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.147	1.141	4.242	0.00	5.22
32.00	1 5/8" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.147	1.141	4.242	0.00	7.62
32.00	1-1/4" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.147	1.141	4.242	0.00	5.70
32.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.147	1.141	4.242	0.00	2.80
32.00	1.25" Reinforcing	Yes	1.00	0.000	1.25	0.27	0.00	0.147	1.141	4.242	0.00	184.51
32.00	1" Reinforcing plate	Yes	1.00	0.000	1.00	0.25	0.00	0.147	1.141	4.242	0.00	147.79
32.00	C10x15.3	Yes	1.00	0.000	2.60	0.38	0.00	0.147	1.141	4.242	0.00	220.51
33.38	1 5/8" Hybrid	Yes	1.38	0.000	2.00	0.46	0.00	0.070	0.000	4.293	0.00	10.55
33.38	7/8" Coax	Yes	1.38	0.000	0.00	0.00	0.00	0.070	0.000	4.293	0.00	3.89
33.38	1.75" Hybrid	Yes	1.38	0.000	0.00	0.00	0.00	0.070	0.000	4.293	0.00	7.22
33.38	1 5/8" Fiber	Yes	1.38	0.000	0.00	0.00	0.00	0.070	0.000	4.293	0.00	10.55
33.38	1-1/4" Fiber	Yes	1.38	0.000	0.00	0.00	0.00	0.070	0.000	4.293	0.00	7.90
33.38	7/8" Coax	Yes	1.38	0.000	0.00	0.00	0.00	0.070	0.000	4.293	0.00	3.89
33.38	1.25" Reinforcing	Yes	1.38	0.000	1.25	0.37	0.00	0.070	0.000	4.293	0.00	254.66
34.00	1 5/8" Hybrid	Yes	0.62	0.000	2.00	0.21	0.00	0.070	0.000	4.316	0.00	4.75
34.00	7/8" Coax	Yes	0.62	0.000	0.00	0.00	0.00	0.070	0.000	4.316	0.00	1.75
34.00	1.75" Hybrid	Yes	0.62	0.000	0.00	0.00	0.00	0.070	0.000	4.316	0.00	3.25
34.00	1 5/8" Fiber	Yes	0.62	0.000	0.00	0.00	0.00	0.070	0.000	4.316	0.00	4.75
34.00	1-1/4" Fiber	Yes	0.62	0.000	0.00	0.00	0.00	0.070	0.000	4.316	0.00	3.55
34.00	7/8" Coax	Yes	0.62	0.000	0.00	0.00	0.00	0.070	0.000	4.316	0.00	1.75
34.00	1.25" Reinforcing	Yes	0.62	0.000	1.25	0.17	0.00	0.070	0.000	4.316	0.00	114.42
36.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.67	0.00	0.071	0.000	4.387	0.00	15.38
36.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.071	0.000	4.387	0.00	5.68
36.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.071	0.000	4.387	0.00	10.52

Linear Appurtenance Segment Forces (Factored)

Structure: CT02049-S-SBA	Code: TIA-222-H	11/17/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II

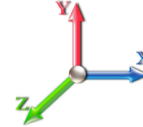


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Load Case: 1.2D + 1.0Di + 1.0Wi 50 mph Wind

Iterations 26

Dead Load Factor 1.20
Wind Load Factor 1.00



Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
36.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.071	0.000	4.387	0.00	15.38
36.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.071	0.000	4.387	0.00	11.51
36.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.071	0.000	4.387	0.00	5.68
36.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.54	0.00	0.071	0.000	4.387	0.00	369.15
38.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.67	0.00	0.071	0.000	4.455	0.00	15.44
38.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.071	0.000	4.455	0.00	5.72
38.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.071	0.000	4.455	0.00	10.56
38.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.071	0.000	4.455	0.00	15.44
38.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.071	0.000	4.455	0.00	11.56
38.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.071	0.000	4.455	0.00	5.72
38.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.55	0.00	0.071	0.000	4.455	0.00	369.21
40.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.67	0.00	0.072	0.000	4.521	0.00	15.50
40.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.072	0.000	4.521	0.00	5.75
40.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.072	0.000	4.521	0.00	10.60
40.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.072	0.000	4.521	0.00	15.50
40.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.072	0.000	4.521	0.00	11.60
40.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.072	0.000	4.521	0.00	5.75
40.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.55	0.00	0.072	0.000	4.521	0.00	369.27
42.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.67	0.00	0.073	0.000	4.584	0.00	15.55
42.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	4.584	0.00	5.79
42.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	4.584	0.00	10.64
42.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	4.584	0.00	15.55
42.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	4.584	0.00	11.65
42.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	4.584	0.00	5.79
42.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.55	0.00	0.073	0.000	4.584	0.00	369.32
44.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.68	0.00	0.073	0.000	4.646	0.00	15.61
44.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	4.646	0.00	5.82
44.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	4.646	0.00	10.68
44.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	4.646	0.00	15.61
44.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	4.646	0.00	11.69
44.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	4.646	0.00	5.82
44.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.55	0.00	0.073	0.000	4.646	0.00	369.37
45.16	1 5/8" Hybrid	Yes	1.16	0.000	2.00	0.39	0.00	0.074	0.000	4.680	0.00	9.07
45.16	7/8" Coax	Yes	1.16	0.000	0.00	0.00	0.00	0.074	0.000	4.680	0.00	3.39
45.16	1.75" Hybrid	Yes	1.16	0.000	0.00	0.00	0.00	0.074	0.000	4.680	0.00	6.21
45.16	1 5/8" Fiber	Yes	1.16	0.000	0.00	0.00	0.00	0.074	0.000	4.680	0.00	9.07
45.16	1-1/4" Fiber	Yes	1.16	0.000	0.00	0.00	0.00	0.074	0.000	4.680	0.00	6.79
45.16	7/8" Coax	Yes	1.16	0.000	0.00	0.00	0.00	0.074	0.000	4.680	0.00	3.39
45.16	1.25" Reinforcing	Yes	1.16	0.000	1.25	0.32	0.00	0.074	0.000	4.680	0.00	214.25
46.00	1 5/8" Hybrid	Yes	0.84	0.000	2.00	0.28	0.00	0.074	0.000	4.705	0.00	6.58
46.00	7/8" Coax	Yes	0.84	0.000	0.00	0.00	0.00	0.074	0.000	4.705	0.00	2.46
46.00	1.75" Hybrid	Yes	0.84	0.000	0.00	0.00	0.00	0.074	0.000	4.705	0.00	4.50
46.00	1 5/8" Fiber	Yes	0.84	0.000	0.00	0.00	0.00	0.074	0.000	4.705	0.00	6.58
46.00	1-1/4" Fiber	Yes	0.84	0.000	0.00	0.00	0.00	0.074	0.000	4.705	0.00	4.93
46.00	7/8" Coax	Yes	0.84	0.000	0.00	0.00	0.00	0.074	0.000	4.705	0.00	2.46
46.00	1.25" Reinforcing	Yes	0.84	0.000	1.25	0.23	0.00	0.074	0.000	4.705	0.00	155.16
48.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.68	0.00	0.075	0.000	4.763	0.00	15.71

Linear Appurtenance Segment Forces (Factored)

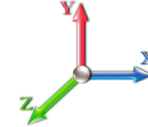
Structure: CT02049-S-SBA	Code: TIA-222-H	11/17/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Load Case: 1.2D + 1.0Di + 1.0Wi 50 mph Wind

Dead Load Factor 1.20
Wind Load Factor 1.00



Iterations 26

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
48.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	4.763	0.00	5.88
48.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	4.763	0.00	10.75
48.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	4.763	0.00	15.71
48.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	4.763	0.00	11.77
48.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	4.763	0.00	5.88
48.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.55	0.00	0.075	0.000	4.763	0.00	369.47
50.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.68	0.00	0.075	0.000	4.819	0.00	15.76
50.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	4.819	0.00	5.91
50.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	4.819	0.00	10.78
50.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	4.819	0.00	15.76
50.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	4.819	0.00	11.81
50.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	4.819	0.00	5.91
50.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.56	0.00	0.075	0.000	4.819	0.00	369.52
52.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.68	0.00	0.076	0.000	4.873	0.00	15.80
52.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.076	0.000	4.873	0.00	5.94
52.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.076	0.000	4.873	0.00	10.81
52.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.076	0.000	4.873	0.00	15.80
52.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.076	0.000	4.873	0.00	11.85
52.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.076	0.000	4.873	0.00	5.94
52.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.56	0.00	0.076	0.000	4.873	0.00	369.56
54.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.68	0.00	0.077	0.000	4.926	0.00	15.85
54.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	4.926	0.00	5.96
54.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	4.926	0.00	10.85
54.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	4.926	0.00	15.85
54.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	4.926	0.00	11.88
54.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	4.926	0.00	5.96
54.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.56	0.00	0.077	0.000	4.926	0.00	369.61
56.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.68	0.00	0.078	0.000	4.977	0.00	15.89
56.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	4.977	0.00	5.99
56.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	4.977	0.00	10.88
56.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	4.977	0.00	15.89
56.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	4.977	0.00	11.92
56.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	4.977	0.00	5.99
56.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.56	0.00	0.078	0.000	4.977	0.00	369.65
58.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.69	0.00	0.077	0.000	5.027	0.00	15.93
58.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	5.027	0.00	6.02
58.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	5.027	0.00	10.90
58.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	5.027	0.00	15.93
58.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	5.027	0.00	11.95
58.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	5.027	0.00	6.02
58.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.56	0.00	0.077	0.000	5.027	0.00	369.69
60.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.69	0.00	0.078	0.000	5.076	0.00	15.97
60.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	5.076	0.00	6.04
60.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	5.076	0.00	10.93
60.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	5.076	0.00	15.97
60.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	5.076	0.00	11.98
60.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	5.076	0.00	6.04

Linear Appurtenance Segment Forces (Factored)

Structure: CT02049-S-SBA	Code: TIA-222-H	11/17/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II

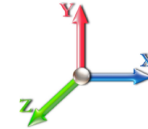


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Load Case: 1.2D + 1.0Di + 1.0Wi 50 mph Wind

Iterations 26

Dead Load Factor 1.20
Wind Load Factor 1.00



Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
60.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.56	0.00	0.078	0.000	5.076	0.00	369.73
62.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.69	0.00	0.078	0.000	5.124	0.00	16.01
62.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	5.124	0.00	6.06
62.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	5.124	0.00	10.96
62.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	5.124	0.00	16.01
62.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	5.124	0.00	12.01
62.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	5.124	0.00	6.06
62.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.56	0.00	0.078	0.000	5.124	0.00	369.77
64.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.69	0.00	0.079	0.000	5.171	0.00	16.05
64.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.079	0.000	5.171	0.00	6.09
64.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.079	0.000	5.171	0.00	10.99
64.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.079	0.000	5.171	0.00	16.05
64.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.079	0.000	5.171	0.00	12.05
64.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.079	0.000	5.171	0.00	6.09
64.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.56	0.00	0.079	0.000	5.171	0.00	369.80
66.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.69	0.00	0.080	0.000	5.216	0.00	16.09
66.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.080	0.000	5.216	0.00	6.11
66.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.080	0.000	5.216	0.00	11.01
66.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.080	0.000	5.216	0.00	16.09
66.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.080	0.000	5.216	0.00	12.08
66.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.080	0.000	5.216	0.00	6.11
66.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.57	0.00	0.080	0.000	5.216	0.00	369.84
68.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.69	0.00	0.081	0.000	5.261	0.00	16.13
68.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.081	0.000	5.261	0.00	6.13
68.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.081	0.000	5.261	0.00	11.04
68.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.081	0.000	5.261	0.00	16.13
68.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.081	0.000	5.261	0.00	12.10
68.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.081	0.000	5.261	0.00	6.13
68.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.57	0.00	0.081	0.000	5.261	0.00	369.88
70.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.69	0.00	0.082	0.000	5.305	0.00	16.16
70.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.082	0.000	5.305	0.00	6.16
70.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.082	0.000	5.305	0.00	11.06
70.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.082	0.000	5.305	0.00	16.16
70.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.082	0.000	5.305	0.00	12.13
70.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.082	0.000	5.305	0.00	6.16
70.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.57	0.00	0.082	0.000	5.305	0.00	369.91
72.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.69	0.00	0.082	0.000	5.348	0.00	16.20
72.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.082	0.000	5.348	0.00	6.18
72.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.082	0.000	5.348	0.00	11.09
72.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.082	0.000	5.348	0.00	16.20
72.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.082	0.000	5.348	0.00	12.16
72.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.082	0.000	5.348	0.00	6.18
72.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.57	0.00	0.082	0.000	5.348	0.00	369.95
74.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.69	0.00	0.083	0.000	5.390	0.00	16.23
74.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.083	0.000	5.390	0.00	6.20
74.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.083	0.000	5.390	0.00	11.11
74.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.083	0.000	5.390	0.00	16.23

Linear Appurtenance Segment Forces (Factored)

Structure: CT02049-S-SBA	Code: TIA-222-H	11/17/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



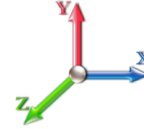
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Load Case: 1.2D + 1.0Di + 1.0Wi 50 mph Wind

Iterations 26

Dead Load Factor 1.20

Wind Load Factor 1.00



Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
74.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.083	0.000	5.390	0.00	12.19
74.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.083	0.000	5.390	0.00	6.20
74.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.57	0.00	0.083	0.000	5.390	0.00	369.98
76.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.70	0.00	0.084	0.000	5.431	0.00	16.27
76.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.084	0.000	5.431	0.00	6.22
76.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.084	0.000	5.431	0.00	11.14
76.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.084	0.000	5.431	0.00	16.27
76.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.084	0.000	5.431	0.00	12.22
76.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.084	0.000	5.431	0.00	6.22
76.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.57	0.00	0.084	0.000	5.431	0.00	370.01
78.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.70	0.00	0.085	0.000	5.471	0.00	16.30
78.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.085	0.000	5.471	0.00	6.24
78.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.085	0.000	5.471	0.00	11.16
78.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.085	0.000	5.471	0.00	16.30
78.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.085	0.000	5.471	0.00	12.24
78.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.085	0.000	5.471	0.00	6.24
78.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.57	0.00	0.085	0.000	5.471	0.00	370.04
80.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.70	0.00	0.086	0.000	5.511	0.00	16.33
80.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.086	0.000	5.511	0.00	6.26
80.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.086	0.000	5.511	0.00	11.18
80.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.086	0.000	5.511	0.00	16.33
80.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.086	0.000	5.511	0.00	12.27
80.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.086	0.000	5.511	0.00	6.26
80.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.57	0.00	0.086	0.000	5.511	0.00	370.07
82.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.70	0.00	0.087	0.000	5.550	0.00	16.36
82.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.087	0.000	5.550	0.00	6.28
82.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.087	0.000	5.550	0.00	11.20
82.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.087	0.000	5.550	0.00	16.36
82.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.087	0.000	5.550	0.00	12.29
82.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.087	0.000	5.550	0.00	6.28
82.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.57	0.00	0.087	0.000	5.550	0.00	370.10
84.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.70	0.00	0.088	0.000	5.589	0.00	16.39
84.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.088	0.000	5.589	0.00	6.29
84.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.088	0.000	5.589	0.00	11.22
84.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.088	0.000	5.589	0.00	16.39
84.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.088	0.000	5.589	0.00	12.32
84.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.088	0.000	5.589	0.00	6.29
84.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.57	0.00	0.088	0.000	5.589	0.00	370.13
86.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.70	0.00	0.089	0.000	5.626	0.00	16.42
86.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.089	0.000	5.626	0.00	6.31
86.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.089	0.000	5.626	0.00	11.24
86.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.089	0.000	5.626	0.00	16.42
86.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.089	0.000	5.626	0.00	12.34
86.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.089	0.000	5.626	0.00	6.31
86.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.58	0.00	0.089	0.000	5.626	0.00	370.16
88.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.70	0.00	0.090	0.000	5.663	0.00	16.45
88.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.090	0.000	5.663	0.00	6.33

Linear Appurtenance Segment Forces (Factored)

Structure: CT02049-S-SBA	Code: TIA-222-H	11/17/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Load Case: 1.2D + 1.0Di + 1.0Wi 50 mph Wind

Iterations 26

Dead Load Factor 1.20
Wind Load Factor 1.00



Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
88.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.090	0.000	5.663	0.00	11.27
88.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.090	0.000	5.663	0.00	16.45
88.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.090	0.000	5.663	0.00	12.36
88.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.090	0.000	5.663	0.00	6.33
88.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.58	0.00	0.090	0.000	5.663	0.00	370.19
90.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.70	0.00	0.091	0.000	5.700	0.00	16.48
90.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.091	0.000	5.700	0.00	6.35
90.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.091	0.000	5.700	0.00	11.29
90.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.091	0.000	5.700	0.00	16.48
90.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.091	0.000	5.700	0.00	12.39
90.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.091	0.000	5.700	0.00	6.35
90.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.58	0.00	0.091	0.000	5.700	0.00	370.22
92.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.70	0.00	0.092	0.000	5.736	0.00	16.51
92.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.092	0.000	5.736	0.00	6.37
92.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.092	0.000	5.736	0.00	11.31
92.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.092	0.000	5.736	0.00	16.51
92.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.092	0.000	5.736	0.00	12.41
92.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.092	0.000	5.736	0.00	6.37
92.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.58	0.00	0.092	0.000	5.736	0.00	370.25
94.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.70	0.00	0.093	0.000	5.771	0.00	16.54
94.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.093	0.000	5.771	0.00	6.38
94.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.093	0.000	5.771	0.00	11.32
94.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.093	0.000	5.771	0.00	16.54
94.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.093	0.000	5.771	0.00	12.43
94.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.093	0.000	5.771	0.00	6.38
94.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.58	0.00	0.093	0.000	5.771	0.00	370.27
95.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.35	0.00	0.094	0.000	5.789	0.00	8.28
95.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.094	0.000	5.789	0.00	3.20
95.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.094	0.000	5.789	0.00	5.67
95.00	1 5/8" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.094	0.000	5.789	0.00	8.28
95.00	1-1/4" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.094	0.000	5.789	0.00	6.22
95.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.094	0.000	5.789	0.00	3.20
95.00	1.25" Reinforcing	Yes	1.00	0.000	1.25	0.29	0.00	0.094	0.000	5.789	0.00	185.14
95.58	1 5/8" Hybrid	Yes	0.58	0.000	2.00	0.20	0.00	0.094	0.000	5.799	0.00	4.80
95.58	7/8" Coax	Yes	0.58	0.000	0.00	0.00	0.00	0.094	0.000	5.799	0.00	1.86
95.58	1.75" Hybrid	Yes	0.58	0.000	0.00	0.00	0.00	0.094	0.000	5.799	0.00	3.29
95.58	1 5/8" Fiber	Yes	0.58	0.000	0.00	0.00	0.00	0.094	0.000	5.799	0.00	4.80
95.58	1-1/4" Fiber	Yes	0.58	0.000	0.00	0.00	0.00	0.094	0.000	5.799	0.00	3.61
95.58	7/8" Coax	Yes	0.58	0.000	0.00	0.00	0.00	0.094	0.000	5.799	0.00	1.86
95.58	1.25" Reinforcing	Yes	0.58	0.000	1.25	0.17	0.00	0.094	0.000	5.799	0.00	107.38
96.00	1 5/8" Hybrid	Yes	0.42	0.000	2.00	0.15	0.00	0.094	0.000	5.806	0.00	3.48
96.00	7/8" Coax	Yes	0.42	0.000	0.00	0.00	0.00	0.094	0.000	5.806	0.00	1.34
96.00	1.75" Hybrid	Yes	0.42	0.000	0.00	0.00	0.00	0.094	0.000	5.806	0.00	2.38
96.00	1 5/8" Fiber	Yes	0.42	0.000	0.00	0.00	0.00	0.094	0.000	5.806	0.00	3.48
96.00	1-1/4" Fiber	Yes	0.42	0.000	0.00	0.00	0.00	0.094	0.000	5.806	0.00	2.62
96.00	7/8" Coax	Yes	0.42	0.000	0.00	0.00	0.00	0.094	0.000	5.806	0.00	1.34
96.00	1.25" Reinforcing	Yes	0.42	0.000	1.25	0.12	0.00	0.094	0.000	5.806	0.00	77.76

Linear Appurtenance Segment Forces (Factored)

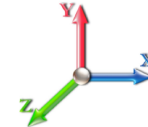
Structure: CT02049-S-SBA	Code: TIA-222-H	11/17/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Load Case: 1.2D + 1.0Di + 1.0Wi 50 mph Wind

Dead Load Factor 1.20
Wind Load Factor 1.00



Iterations 26

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
98.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.70	0.00	0.095	0.000	5.840	0.00	16.59
98.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.095	0.000	5.840	0.00	6.42
98.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.095	0.000	5.840	0.00	11.36
98.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.095	0.000	5.840	0.00	16.59
98.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.095	0.000	5.840	0.00	12.47
98.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.095	0.000	5.840	0.00	6.42
98.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.58	0.00	0.095	0.000	5.840	0.00	370.32
100.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.71	0.00	0.059	0.000	5.874	0.00	16.62
100.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	5.874	0.00	6.43
100.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	5.874	0.00	11.38
100.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	5.874	0.00	16.62
100.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	5.874	0.00	12.50
100.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	5.874	0.00	6.43
102.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.71	0.00	0.059	0.000	5.907	0.00	16.64
102.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	5.907	0.00	6.45
102.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	5.907	0.00	11.40
102.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	5.907	0.00	16.64
102.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	5.907	0.00	12.52
102.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	5.907	0.00	6.45
104.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.71	0.00	0.059	0.000	5.940	0.00	16.67
104.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	5.940	0.00	6.46
104.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	5.940	0.00	11.42
104.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	5.940	0.00	16.67
104.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	5.940	0.00	12.54
104.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	5.940	0.00	6.46
106.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.71	0.00	0.060	0.000	5.973	0.00	16.69
106.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.060	0.000	5.973	0.00	6.48
106.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.060	0.000	5.973	0.00	11.43
106.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.060	0.000	5.973	0.00	16.69
106.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.060	0.000	5.973	0.00	12.56
106.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.060	0.000	5.973	0.00	6.48
108.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.71	0.00	0.061	0.000	6.005	0.00	16.72
108.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.061	0.000	6.005	0.00	6.49
108.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.061	0.000	6.005	0.00	11.45
108.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.061	0.000	6.005	0.00	16.72
108.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.061	0.000	6.005	0.00	12.58
108.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.061	0.000	6.005	0.00	6.49
110.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.71	0.00	0.062	0.000	6.036	0.00	16.74
110.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.062	0.000	6.036	0.00	6.51
110.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.062	0.000	6.036	0.00	11.47
110.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.062	0.000	6.036	0.00	16.74
110.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.062	0.000	6.036	0.00	12.60
110.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.062	0.000	6.036	0.00	6.51
112.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.71	0.00	0.062	0.000	6.067	0.00	16.77
112.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.062	0.000	6.067	0.00	6.52
112.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.062	0.000	6.067	0.00	11.49
112.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.062	0.000	6.067	0.00	16.77

Linear Appurtenance Segment Forces (Factored)

Structure: CT02049-S-SBA	Code: TIA-222-H	11/17/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Load Case: 1.2D + 1.0Di + 1.0Wi 50 mph Wind

Dead Load Factor 1.20
Wind Load Factor 1.00



Iterations 26

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
112.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.062	0.000	6.067	0.00	12.62
114.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.71	0.00	0.063	0.000	6.098	0.00	16.79
114.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.063	0.000	6.098	0.00	6.54
114.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.063	0.000	6.098	0.00	11.50
114.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.063	0.000	6.098	0.00	16.79
114.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.063	0.000	6.098	0.00	12.63
115.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.36	0.00	0.064	0.000	6.113	0.00	8.40
115.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.064	0.000	6.113	0.00	3.27
115.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.064	0.000	6.113	0.00	5.76
115.00	1 5/8" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.064	0.000	6.113	0.00	8.40
115.00	1-1/4" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.064	0.000	6.113	0.00	6.32
116.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.36	0.00	0.064	0.000	6.128	0.00	8.41
116.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.064	0.000	6.128	0.00	3.28
116.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.064	0.000	6.128	0.00	5.76
116.00	1 5/8" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.064	0.000	6.128	0.00	8.41
116.00	1-1/4" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.064	0.000	6.128	0.00	6.33
118.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.71	0.00	0.065	0.000	6.158	0.00	16.84
118.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.065	0.000	6.158	0.00	6.57
118.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.065	0.000	6.158	0.00	11.53
118.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.065	0.000	6.158	0.00	16.84
118.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.065	0.000	6.158	0.00	12.67
120.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.71	0.00	0.066	0.000	6.188	0.00	16.86
120.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.066	0.000	6.188	0.00	6.58
120.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.066	0.000	6.188	0.00	11.55
120.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.066	0.000	6.188	0.00	16.86
120.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.066	0.000	6.188	0.00	12.69
122.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.71	0.00	0.067	0.000	6.217	0.00	16.88
122.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.067	0.000	6.217	0.00	6.60
122.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.067	0.000	6.217	0.00	11.57
122.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.067	0.000	6.217	0.00	16.88
122.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.067	0.000	6.217	0.00	12.71
124.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.71	0.00	0.067	0.000	6.246	0.00	16.90
124.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.067	0.000	6.246	0.00	6.61
124.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.067	0.000	6.246	0.00	11.58
124.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.067	0.000	6.246	0.00	16.90
124.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.067	0.000	6.246	0.00	12.72
126.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.71	0.00	0.068	0.000	6.275	0.00	16.92
126.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.068	0.000	6.275	0.00	6.62
126.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.068	0.000	6.275	0.00	11.60
126.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.068	0.000	6.275	0.00	16.92
126.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.068	0.000	6.275	0.00	12.74
128.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.72	0.00	0.069	0.000	6.303	0.00	16.95
128.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.069	0.000	6.303	0.00	6.64
128.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.069	0.000	6.303	0.00	11.61
128.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.069	0.000	6.303	0.00	16.95
128.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.069	0.000	6.303	0.00	12.76
130.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.72	0.00	0.070	0.000	6.331	0.00	16.97

Linear Appurtenance Segment Forces (Factored)

Structure: CT02049-S-SBA	Code: TIA-222-H	11/17/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II

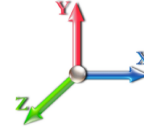


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Load Case: 1.2D + 1.0Di + 1.0Wi 50 mph Wind

Iterations 26

Dead Load Factor 1.20
Wind Load Factor 1.00



Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
130.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.070	0.000	6.331	0.00	6.65
130.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.070	0.000	6.331	0.00	11.63
130.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.070	0.000	6.331	0.00	16.97
130.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.070	0.000	6.331	0.00	12.78
131.75	1 5/8" Hybrid	Yes	1.75	0.000	2.00	0.63	0.00	0.071	0.000	6.355	0.00	14.86
131.75	7/8" Coax	Yes	1.75	0.000	0.00	0.00	0.00	0.071	0.000	6.355	0.00	5.83
131.75	1.75" Hybrid	Yes	1.75	0.000	0.00	0.00	0.00	0.071	0.000	6.355	0.00	10.18
131.75	1 5/8" Fiber	Yes	1.75	0.000	0.00	0.00	0.00	0.071	0.000	6.355	0.00	14.86
131.75	1-1/4" Fiber	Yes	1.75	0.000	0.00	0.00	0.00	0.071	0.000	6.355	0.00	11.19
132.00	1 5/8" Hybrid	Yes	0.25	0.000	2.00	0.09	0.00	0.072	0.000	6.359	0.00	2.12
132.00	7/8" Coax	Yes	0.25	0.000	0.00	0.00	0.00	0.072	0.000	6.359	0.00	0.83
132.00	1.75" Hybrid	Yes	0.25	0.000	0.00	0.00	0.00	0.072	0.000	6.359	0.00	1.46
132.00	1 5/8" Fiber	Yes	0.25	0.000	0.00	0.00	0.00	0.072	0.000	6.359	0.00	2.12
132.00	1-1/4" Fiber	Yes	0.25	0.000	0.00	0.00	0.00	0.072	0.000	6.359	0.00	1.60
133.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.36	0.00	0.072	0.000	6.373	0.00	8.50
133.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.072	0.000	6.373	0.00	3.33
133.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.072	0.000	6.373	0.00	5.82
133.00	1 5/8" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.072	0.000	6.373	0.00	8.50
133.00	1-1/4" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.072	0.000	6.373	0.00	6.40
134.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.36	0.00	0.073	0.000	6.386	0.00	8.50
134.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.073	0.000	6.386	0.00	3.34
134.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.073	0.000	6.386	0.00	5.83
134.00	1 5/8" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.073	0.000	6.386	0.00	8.50
134.00	1-1/4" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.073	0.000	6.386	0.00	6.40
134.75	1 5/8" Hybrid	Yes	0.75	0.000	2.00	0.27	0.00	0.073	0.000	6.396	0.00	6.38
134.75	7/8" Coax	Yes	0.75	0.000	0.00	0.00	0.00	0.073	0.000	6.396	0.00	2.50
134.75	1.75" Hybrid	Yes	0.75	0.000	0.00	0.00	0.00	0.073	0.000	6.396	0.00	4.37
134.75	1 5/8" Fiber	Yes	0.75	0.000	0.00	0.00	0.00	0.073	0.000	6.396	0.00	6.38
134.75	1-1/4" Fiber	Yes	0.75	0.000	0.00	0.00	0.00	0.073	0.000	6.396	0.00	4.81
136.00	1 5/8" Hybrid	Yes	1.25	0.000	2.00	0.45	0.00	0.074	0.000	6.413	0.00	10.64
136.00	7/8" Coax	Yes	1.25	0.000	0.00	0.00	0.00	0.074	0.000	6.413	0.00	4.18
136.00	1.75" Hybrid	Yes	1.25	0.000	0.00	0.00	0.00	0.074	0.000	6.413	0.00	7.29
136.00	1 5/8" Fiber	Yes	1.25	0.000	0.00	0.00	0.00	0.074	0.000	6.413	0.00	10.64
136.00	1-1/4" Fiber	Yes	1.25	0.000	0.00	0.00	0.00	0.074	0.000	6.413	0.00	8.02
138.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.72	0.00	0.075	0.000	6.440	0.00	17.05
138.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	6.440	0.00	6.70
138.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	6.440	0.00	11.68
138.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	6.440	0.00	17.05
138.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	6.440	0.00	12.84
140.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.72	0.00	0.076	0.000	6.467	0.00	17.07
140.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.076	0.000	6.467	0.00	6.71
140.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.076	0.000	6.467	0.00	11.70
140.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.076	0.000	6.467	0.00	17.07
140.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.076	0.000	6.467	0.00	12.86
142.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.72	0.00	0.077	0.000	6.493	0.00	17.09
142.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	6.493	0.00	6.72
142.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	6.493	0.00	11.71

Linear Appurtenance Segment Forces (Factored)

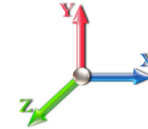
Structure: CT02049-S-SBA	Code: TIA-222-H	11/17/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Load Case: 1.2D + 1.0Di + 1.0Wi 50 mph Wind

Dead Load Factor 1.20
Wind Load Factor 1.00



Iterations 26

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
142.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	6.493	0.00	17.09
142.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	6.493	0.00	12.87
144.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.72	0.00	0.078	0.000	6.519	0.00	17.11
144.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	6.519	0.00	6.74
144.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	6.519	0.00	11.72
145.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.36	0.00	0.079	0.000	6.532	0.00	8.56
145.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.079	0.000	6.532	0.00	3.37
145.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.079	0.000	6.532	0.00	5.87
146.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.36	0.00	0.082	0.000	6.545	0.00	8.56
146.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.082	0.000	6.545	0.00	3.37
146.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.082	0.000	6.545	0.00	5.87
148.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.72	0.00	0.083	0.000	6.570	0.00	17.14
148.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.083	0.000	6.570	0.00	6.76
148.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.083	0.000	6.570	0.00	11.75
150.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.72	0.00	0.085	0.000	6.595	0.00	17.16
150.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.085	0.000	6.595	0.00	6.77
150.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.085	0.000	6.595	0.00	11.76
152.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.72	0.00	0.125	1.075	6.620	0.00	17.18
152.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.125	1.075	6.620	0.00	6.78
152.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.125	1.075	6.620	0.00	11.78
154.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.72	0.00	0.125	1.075	6.645	0.00	17.20
154.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.125	1.075	6.645	0.00	6.79
156.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.72	0.00	0.125	1.075	6.670	0.00	17.22
156.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.125	1.075	6.670	0.00	6.80
158.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.72	0.00	0.125	1.075	6.694	0.00	17.23
158.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.125	1.075	6.694	0.00	6.82
160.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.72	0.00	0.125	1.075	6.718	0.00	17.25
160.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.125	1.075	6.718	0.00	6.83
Totals:											0.0	29,607.2

Calculated Forces

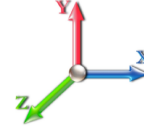
Structure: CT02049-S-SBA	Code: TIA-222-H	11/17/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



Load Case: 1.2D + 1.0Di + 1.0Wi 50 mph Wind

Iterations 26

Dead Load Factor 1.20
Wind Load Factor 1.00



Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-100.5	-7.84	0.00	-969.10	0.00	969.10	3683.82	1059.58	4414.92	3756.66	0.00	0.000	0.000	0.169
1.00	-99.84	-7.83	0.00	-961.26	0.00	961.26	3677.71	1055.47	4380.73	3735.77	0.00	-0.008	0.000	0.169
2.00	-99.10	-7.83	0.00	-953.43	0.00	953.43	3671.54	1051.36	4346.67	3714.86	0.00	-0.016	0.000	0.168
4.00	-97.62	-7.80	0.00	-937.78	0.00	937.78	3659.00	1043.14	4278.95	3673.00	0.01	-0.033	0.000	0.166
6.00	-96.14	-7.78	0.00	-922.17	0.00	922.17	3646.20	1034.91	4211.76	3631.09	0.03	-0.050	0.000	0.165
8.00	-94.66	-7.76	0.00	-906.61	0.00	906.61	3633.16	1026.69	4145.10	3589.13	0.06	-0.067	0.000	0.163
10.00	-93.19	-7.74	0.00	-891.09	0.00	891.09	3619.85	1018.47	4078.97	3547.13	0.09	-0.084	0.000	0.161
12.00	-91.71	-7.71	0.00	-875.62	0.00	875.62	3606.29	1010.25	4013.38	3505.10	0.13	-0.101	0.000	0.160
14.00	-90.23	-7.69	0.00	-860.20	0.00	860.20	3592.48	1002.02	3948.31	3463.03	0.17	-0.119	0.000	0.158
16.00	-88.76	-7.65	0.00	-844.83	0.00	844.83	3578.41	993.80	3883.78	3420.94	0.23	-0.136	0.000	0.157
16.25	-88.52	-7.65	0.00	-842.92	0.00	842.92	3576.63	992.77	3875.75	3415.68	0.23	-0.138	0.000	0.155
18.00	-86.82	-7.62	0.00	-829.52	0.00	829.52	3564.09	985.58	3819.78	3378.83	0.29	-0.151	0.000	0.178
18.63	-86.21	-7.61	0.00	-824.72	0.00	824.72	3559.52	982.99	3799.73	3365.57	0.31	-0.157	0.000	0.177
18.88	-85.97	-7.61	0.00	-822.82	0.00	822.82	3557.70	981.96	3791.79	3360.30	0.32	-0.159	0.000	0.144
20.00	-84.89	-7.60	0.00	-814.29	0.00	814.29	3549.51	977.36	3756.31	3336.71	0.35	-0.168	0.000	0.165
22.00	-82.96	-7.58	0.00	-799.09	0.00	799.09	3563.12	985.03	3815.51	3376.01	0.43	-0.187	0.000	0.167
24.00	-81.49	-7.55	0.00	-783.94	0.00	783.94	3548.52	976.81	3752.08	3333.89	0.51	-0.206	0.000	0.160
26.00	-80.03	-7.52	0.00	-768.84	0.00	768.84	3533.67	968.58	3689.18	3291.77	0.60	-0.224	0.000	0.158
28.00	-78.56	-7.49	0.00	-753.80	0.00	753.80	3518.56	960.36	3626.81	3249.64	0.70	-0.242	0.000	0.157
30.00	-76.74	-7.45	0.00	-738.82	0.00	738.82	3503.20	952.14	3564.97	3207.53	0.80	-0.260	0.000	0.155
31.00	-75.82	-7.43	0.00	-731.37	0.00	731.37	3495.43	948.03	3534.25	3186.48	0.86	-0.267	0.000	0.121
32.00	-74.91	-7.41	0.00	-723.94	0.00	723.94	3487.59	943.92	3503.66	3165.43	0.92	-0.274	0.000	0.140
33.38	-74.16	-7.39	0.00	-713.72	0.00	713.72	3476.66	938.24	3461.67	3136.39	1.00	-0.286	0.000	0.139
34.00	-73.83	-7.39	0.00	-709.14	0.00	709.14	3471.72	935.70	3442.89	3123.35	1.03	-0.291	0.000	0.172
36.00	-72.74	-7.36	0.00	-694.36	0.00	694.36	3455.59	927.47	3382.65	3081.29	1.16	-0.312	0.000	0.170
38.00	-71.67	-7.34	0.00	-679.64	0.00	679.64	3439.21	919.25	3322.94	3039.26	1.30	-0.333	0.000	0.168
40.00	-70.57	-7.30	0.00	-664.97	0.00	664.97	3422.57	911.03	3263.76	2997.28	1.44	-0.354	0.000	0.166
42.00	-69.50	-7.27	0.00	-650.37	0.00	650.37	3405.68	902.81	3205.11	2955.34	1.59	-0.375	0.000	0.165
44.00	-68.44	-7.24	0.00	-635.82	0.00	635.82	3388.54	894.58	3146.99	2913.44	1.75	-0.396	0.000	0.163
45.16	-67.82	-7.22	0.00	-627.43	0.00	627.43	3378.48	889.81	3113.53	2889.17	1.85	-0.408	0.000	0.162
46.00	-67.38	-7.21	0.00	-621.37	0.00	621.37	3371.14	886.36	3089.41	2871.61	1.92	-0.414	0.000	0.117
48.00	-66.32	-7.17	0.00	-606.95	0.00	606.95	3353.48	878.14	3032.36	2829.83	2.10	-0.430	0.000	0.151
50.00	-65.27	-7.14	0.00	-592.61	0.00	592.61	3335.57	869.92	2975.84	2788.13	2.29	-0.450	0.000	0.149
52.00	-63.81	-7.10	0.00	-578.34	0.00	578.34	3317.41	861.69	2919.85	2746.50	2.48	-0.470	0.000	0.145
54.00	-62.35	-7.06	0.00	-564.14	0.00	564.14	3298.98	853.47	2864.39	2704.94	2.68	-0.489	0.000	0.143
56.00	-60.91	-7.02	0.00	-550.02	0.00	550.02	3316.18	861.14	2916.12	2743.71	2.89	-0.509	0.000	0.144
58.00	-59.86	-6.98	0.00	-535.98	0.00	535.98	3297.74	852.92	2860.70	2702.16	3.11	-0.529	0.000	0.138
60.00	-58.82	-6.94	0.00	-522.02	0.00	522.02	3279.05	844.70	2805.81	2660.71	3.33	-0.543	0.000	0.147
62.00	-57.79	-6.90	0.00	-508.15	0.00	508.15	3260.10	836.48	2751.45	2619.34	3.56	-0.564	0.000	0.145
64.00	-56.75	-6.86	0.00	-494.35	0.00	494.35	3240.90	828.25	2697.62	2578.08	3.80	-0.585	0.000	0.143
66.00	-55.73	-6.82	0.00	-480.63	0.00	480.63	3221.44	820.03	2644.33	2536.92	4.05	-0.605	0.000	0.141
68.00	-54.70	-6.78	0.00	-466.98	0.00	466.98	3201.73	811.81	2591.56	2495.87	4.31	-0.626	0.000	0.139
70.00	-53.68	-6.74	0.00	-453.42	0.00	453.42	3181.76	803.59	2539.33	2454.94	4.58	-0.646	0.000	0.136
72.00	-52.67	-6.70	0.00	-439.95	0.00	439.95	3161.54	795.36	2487.63	2414.13	4.85	-0.666	0.000	0.134
74.00	-51.66	-6.66	0.00	-426.55	0.00	426.55	3141.06	787.14	2436.47	2373.45	5.14	-0.687	0.000	0.132
76.00	-50.65	-6.61	0.00	-413.24	0.00	413.24	3120.33	778.92	2385.83	2332.91	5.43	-0.707	0.000	0.129
78.00	-49.65	-6.57	0.00	-400.02	0.00	400.02	3099.34	770.70	2335.73	2292.51	5.73	-0.727	0.000	0.127
80.00	-48.65	-6.52	0.00	-386.89	0.00	386.89	3078.09	762.47	2286.15	2252.26	6.04	-0.742	0.000	0.124

Calculated Forces

Structure: CT02049-S-SBA	Code: TIA-222-H	11/17/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II
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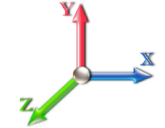
80.00	-48.65	-6.52	0.00	-386.89	0.00	386.89	2384.58	636.50	1911.75	1750.88	6.04	-0.742	0.000	0.134
82.00	-47.72	-6.48	0.00	-373.85	0.00	373.85	2370.62	629.65	1870.81	1721.73	6.35	-0.762	0.000	0.147
84.00	-46.79	-6.43	0.00	-360.90	0.00	360.90	2356.42	622.80	1830.32	1692.63	6.68	-0.784	0.000	0.144
86.00	-45.86	-6.39	0.00	-348.03	0.00	348.03	2341.95	615.94	1790.27	1663.57	7.01	-0.806	0.000	0.141
88.00	-44.94	-6.35	0.00	-335.25	0.00	335.25	2327.23	609.09	1750.66	1634.56	7.35	-0.828	0.000	0.137
90.00	-44.02	-6.30	0.00	-322.56	0.00	322.56	2312.26	602.24	1711.49	1605.61	7.70	-0.850	0.000	0.134
92.00	-43.11	-6.26	0.00	-309.95	0.00	309.95	2297.03	595.39	1672.77	1576.72	8.06	-0.871	0.000	0.130
94.00	-42.20	-6.21	0.00	-297.44	0.00	297.44	2281.55	588.54	1634.49	1547.90	8.43	-0.892	0.000	0.127
95.00	-41.74	-6.18	0.00	-291.23	0.00	291.23	2273.71	585.11	1615.51	1533.52	8.62	-0.903	0.000	0.125
95.58	-41.40	-6.17	0.00	-287.65	0.00	287.65	2269.13	583.12	1604.56	1525.19	8.73	-0.909	0.000	0.123
95.58	-41.40	-6.17	0.00	-287.65	0.00	287.65	2269.13	583.12	1604.56	1525.19	8.73	-0.909	0.000	0.198
96.00	-41.15	-6.17	0.00	-285.06	0.00	285.06	2265.81	581.68	1596.65	1519.16	8.81	-0.913	0.000	0.206
98.00	-39.97	-6.12	0.00	-272.72	0.00	272.72	2249.81	574.83	1559.25	1490.50	9.20	-0.948	0.000	0.201
100.00	-39.16	-6.09	0.00	-260.47	0.00	260.47	2259.61	579.02	1582.04	1508.00	9.61	-0.982	0.000	0.190
102.00	-38.63	-6.05	0.00	-248.30	0.00	248.30	2243.52	572.17	1544.82	1479.37	10.03	-1.016	0.000	0.185
104.00	-38.10	-6.02	0.00	-236.19	0.00	236.19	2227.17	565.31	1508.04	1450.84	10.46	-1.048	0.000	0.180
106.00	-37.58	-5.98	0.00	-224.16	0.00	224.16	2210.57	558.46	1471.71	1422.40	10.90	-1.079	0.000	0.175
108.00	-37.06	-5.94	0.00	-212.20	0.00	212.20	2193.71	551.61	1435.82	1394.06	11.36	-1.109	0.000	0.169
110.00	-36.42	-5.81	0.00	-200.05	0.00	200.05	2176.60	544.76	1400.37	1365.84	11.83	-1.139	0.000	0.163
112.00	-35.92	-5.78	0.00	-188.43	0.00	188.43	2159.23	537.91	1365.36	1337.73	12.32	-1.169	0.000	0.158
114.00	-35.42	-5.73	0.00	-176.88	0.00	176.88	2141.61	531.05	1330.80	1309.73	12.81	-1.197	0.000	0.152
115.00	-35.17	-5.71	0.00	-171.15	0.00	171.15	2132.70	527.63	1313.68	1295.79	13.07	-1.211	0.000	0.149
115.00	-35.17	-5.71	0.00	-171.15	0.00	171.15	1556.62	422.98	1055.35	949.74	13.07	-1.211	0.000	0.203
116.00	-34.94	-5.70	0.00	-165.43	0.00	165.43	1551.43	420.24	1041.71	940.38	13.32	-1.225	0.000	0.199
118.00	-34.50	-5.67	0.00	-154.03	0.00	154.03	1540.84	414.76	1014.72	921.68	13.84	-1.259	0.000	0.190
120.00	-34.05	-5.63	0.00	-142.70	0.00	142.70	1529.99	409.28	988.07	902.99	14.38	-1.292	0.000	0.180
122.00	-33.61	-5.59	0.00	-131.44	0.00	131.44	1518.89	403.80	961.78	884.33	14.92	-1.323	0.000	0.171
124.00	-33.18	-5.56	0.00	-120.25	0.00	120.25	1507.54	398.32	935.85	865.70	15.48	-1.353	0.000	0.161
126.00	-32.75	-5.52	0.00	-109.14	0.00	109.14	1495.93	392.84	910.27	847.11	16.06	-1.381	0.000	0.151
128.00	-32.32	-5.48	0.00	-98.10	0.00	98.10	1484.06	387.35	885.04	828.56	16.64	-1.408	0.000	0.140
130.00	-31.90	-5.44	0.00	-87.14	0.00	87.14	1471.95	381.87	860.17	810.06	17.24	-1.433	0.000	0.129
131.75	-30.96	-5.32	0.00	-77.62	0.00	77.62	1461.13	377.08	838.70	793.92	17.77	-1.453	0.000	0.119
132.00	-30.91	-5.32	0.00	-76.29	0.00	76.29	1459.57	376.39	835.65	791.62	17.84	-1.456	0.000	0.118
133.00	-22.29	-4.19	0.00	-70.97	0.00	70.97	1453.29	373.65	823.53	782.42	18.15	-1.466	0.000	0.106
134.00	-22.09	-4.17	0.00	-66.78	0.00	66.78	1446.94	370.91	811.49	773.23	18.46	-1.477	0.000	0.102
134.75	-21.59	-4.09	0.00	-63.66	0.00	63.66	1442.14	368.85	802.52	766.35	18.69	-1.484	0.000	0.098
136.00	-21.35	-4.06	0.00	-58.55	0.00	58.55	1434.06	365.43	787.68	754.91	19.08	-1.496	0.000	0.093
138.00	-20.98	-4.02	0.00	-50.42	0.00	50.42	1420.92	359.95	764.23	736.67	19.71	-1.513	0.000	0.083
140.00	-20.60	-3.97	0.00	-42.39	0.00	42.39	1407.52	354.47	741.13	718.50	20.35	-1.529	0.000	0.074
142.00	-11.43	-2.34	0.00	-34.45	0.00	34.45	1393.87	348.98	718.38	700.42	20.99	-1.542	0.000	0.057
144.00	-11.12	-2.29	0.00	-29.77	0.00	29.77	1379.97	343.50	695.99	682.44	21.64	-1.554	0.000	0.052
145.00	-10.96	-2.27	0.00	-27.48	0.00	27.48	1372.92	340.76	684.93	673.48	21.97	-1.560	0.000	0.049
145.00	-10.96	-2.27	0.00	-27.48	0.00	27.48	931.20	332.53	24157.3	604.09	21.97	-1.560	0.000	0.057
146.00	-10.81	-2.25	0.00	-25.21	0.00	25.21	925.24	329.86	23770.3	594.77	22.29	-1.565	0.000	0.054
148.00	-10.51	-2.20	0.00	-20.71	0.00	20.71	913.32	324.51	23005.8	576.36	22.95	-1.575	0.000	0.047
150.00	-10.21	-2.16	0.00	-16.30	0.00	16.30	901.40	319.16	22253.7	558.24	23.61	-1.583	0.000	0.041
150.00	-10.21	-2.16	0.00	-16.30	0.00	16.30	556.65	167.00	10296.1	213.69	23.61	-1.583	0.000	0.095
152.00	-5.89	-1.28	0.00	-11.99	0.00	11.99	556.65	167.00	10296.1	213.69	24.28	-1.589	0.000	0.067
154.00	-5.67	-1.25	0.00	-9.43	0.00	9.43	556.65	167.00	10296.1	213.69	24.95	-1.605	0.000	0.054
156.00	-5.46	-1.21	0.00	-6.93	0.00	6.93	556.65	167.00	10296.1	213.69	25.62	-1.617	0.000	0.042
158.00	-5.24	-1.18	0.00	-4.51	0.00	4.51	556.65	167.00	10296.1	213.69	26.30	-1.626	0.000	0.031
160.00	0.00	-1.03	0.00	-2.15	0.00	2.15	556.65	167.00	10296.1	213.69	26.98	-1.631	0.000	0.010

Seismic Segment Forces (Factored)

Structure: CT02049-S-SBA	Code: TIA-222-H	11/17/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Load Case: 1.2D + 1.0Ev + 1.0Eh							Iterations 23
Gust Response Factor	1.10			Sds	0.21	Ss	0.20
Dead Load Factor	1.20	Seismic Load Factor	1.00	Sd1	0.09	S1	0.05
Wind Load Factor	0.00	Structure Frequency (f1)	0.24	SA	0.02	Seismic Importance Factor	1.00

Top Elev (ft)	Description	Wz (lb)	Hz (lb)	Vertical Ev (lb)	Lateral Fs (lb)	R: 1.50
0.00	RB1 RB2	0.00	0.00	0.00	0.00	
1.00	RT2 RB3 RB4	624.78	0.50	26.52	0.00	
2.00		623.98	1.50	26.49	0.00	
4.00		1245.5	3.00	52.88	0.01	
6.00		1242.3	5.00	52.74	0.02	
8.00		1239.2	7.00	52.61	0.03	
10.00		1236.0	9.00	52.47	0.05	
12.00		1232.8	11.00	52.34	0.08	
14.00		1229.6	13.00	52.20	0.11	
16.00	Bot - Section 2	1226.4	15.00	52.07	0.15	
16.25	RT1 RB5	202.00	16.13	8.58	0.00	
18.00		1411.2	17.13	59.91	0.25	
18.63	RB6	506.84	18.31	21.52	0.04	
18.88	RT3 RT4	200.95	18.75	8.53	0.01	
20.00		899.04	19.44	38.17	0.13	
22.00	Top - Section 1	1600.4	21.00	67.94	0.48	
24.00		1219.8	23.00	51.79	0.34	
26.00		1216.6	25.00	51.65	0.40	
28.00		1213.4	27.00	51.52	0.46	
30.00	RB7	1570.2	29.00	66.66	0.89	
31.00	RT5	783.95	30.50	33.28	0.25	
32.00		783.15	31.50	33.25	0.26	
33.38	RT6	582.64	32.69	24.73	0.16	
34.00		261.27	33.69	11.09	0.03	
36.00		840.72	35.00	35.69	0.37	
38.00		837.53	37.00	35.56	0.41	
40.00	Appurtenance(s)	844.34	39.00	35.85	0.46	
42.00		830.77	41.00	35.27	0.50	
44.00		827.58	43.00	35.13	0.54	
45.16	RB8	478.54	44.58	20.32	0.20	
46.00	RT7	345.86	45.58	14.68	0.11	
48.00		821.21	47.00	34.86	0.64	
50.00	Bot - Section 3	818.02	49.00	34.73	0.69	
52.00		1156.7	51.00	49.11	1.49	
54.00		1150.3	53.00	48.84	1.59	
56.00	Top - Section 2	1143.9	55.00	48.57	1.70	
58.00	RT8 RB9	811.43	57.00	34.45	0.92	
60.00		808.24	59.00	34.31	0.97	
62.00		805.05	61.00	34.18	1.03	
64.00		801.86	63.00	34.04	1.09	
66.00		798.67	65.00	33.91	1.16	
68.00		795.48	67.00	33.77	1.22	
70.00		792.30	69.00	33.64	1.28	
72.00		789.11	71.00	33.50	1.35	
74.00		785.92	73.00	33.36	1.41	
76.00		782.73	75.00	33.23	1.48	

Seismic Segment Forces (Factored)

Structure: CT02049-S-SBA	Code: TIA-222-H	11/17/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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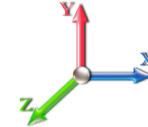
78.00	RT9 RB10	779.54	77.00	33.09	1.54
80.00	Top - Section 3	776.35	79.00	32.96	1.61
82.00		724.58	81.00	30.76	1.48
84.00		721.92	83.00	30.65	1.54
86.00		719.27	85.00	30.54	1.60
88.00		716.61	87.00	30.42	1.67
90.00		713.95	89.00	30.31	1.73
92.00		711.29	91.00	30.20	1.80
94.00		708.64	93.00	30.08	1.86
95.00	Bot - Section 5	353.32	94.50	15.00	0.48
95.58	RT10	271.55	95.29	11.53	0.29
96.00		196.36	95.79	8.34	0.15
98.00		931.84	97.00	39.56	3.50
100.00	Top - Section 4	566.53	99.00	24.05	1.35
102.00		342.29	101.00	14.53	0.51
104.00		339.63	103.00	14.42	0.52
106.00		336.97	105.00	14.31	0.54
108.00		334.32	107.00	14.19	0.55
110.00	Appurtenance(s)	387.66	109.00	16.46	0.77
112.00		327.76	111.00	13.91	0.57
114.00		325.10	113.00	13.80	0.58
115.00	Top - Section 5	161.55	114.50	6.86	0.15
116.00		140.67	115.50	5.97	0.11
118.00		279.74	117.00	11.88	0.46
120.00		277.61	119.00	11.79	0.47
122.00		275.49	121.00	11.70	0.48
124.00		273.36	123.00	11.61	0.48
126.00		271.23	125.00	11.51	0.49
128.00		269.11	127.00	11.42	0.50
130.00		266.98	129.00	11.33	0.51
131.75	Appurtenance(s)	495.87	130.88	21.05	1.81
132.00		32.99	131.88	1.40	0.01
133.00	Appurtenance(s)	4484.7	132.50	190.39	151.36
134.00		115.12	133.50	4.89	0.10
134.75	Appurtenance(s)	284.29	134.38	12.07	0.63
136.00		142.65	135.38	6.06	0.16
138.00		226.51	137.00	9.62	0.41
140.00		224.39	139.00	9.53	0.42
142.00	Appurtenance(s)	4752.6	141.00	201.77	192.49
144.00		188.00	143.00	7.98	0.31
145.00	Top - Section 6	93.21	144.50	3.96	0.08
146.00		91.08	145.50	3.87	0.08
148.00		180.61	147.00	7.67	0.30
150.00	Top - Section 7	178.54	149.00	7.58	0.30
152.00	Appurtenance(s)	2497.0	151.00	106.01	60.94
154.00		133.14	153.00	5.65	0.18
156.00		133.14	155.00	5.65	0.18
158.00		133.14	157.00	5.65	0.19
160.00	Appurtenance(s)	2565.8	159.00	108.93	71.34
Totals:		70,873.2		3,008.8	534.3
				Total Wind:	33,650.2

Calculated Forces

Structure: CT02049-S-SBA	Code: TIA-222-H	11/17/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



Load Case: 1.2D + 1.0Ev + 1.0Eh										Iterations 23
Gust Response Factor 1.10					Sds 0.21					Ss 0.20
Dead Load Factor 1.20			Seismic Load Factor 1.00			Sd1 0.09			S1 0.05	
Wind Load Factor 0.00		Structure Frequency (f1) 0.24		SA 0.02		Seismic Importance Factor 1.00				



Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-81.48	-0.53	0.00	-77.26	0.00	77.26	3683.82	1059.58	4414.92	3756.66	0.00	0.00	0.00	0.026
1.00	-80.79	-0.53	0.00	-76.73	0.00	76.73	3677.71	1055.47	4380.73	3735.77	0.00	0.00	0.00	0.025
2.00	-80.10	-0.53	0.00	-76.19	0.00	76.19	3671.54	1051.36	4346.67	3714.86	0.00	0.00	0.00	0.025
4.00	-78.72	-0.54	0.00	-75.12	0.00	75.12	3659.00	1043.14	4278.95	3673.00	0.00	0.00	0.00	0.024
6.00	-77.34	-0.54	0.00	-74.05	0.00	74.05	3646.20	1034.91	4211.76	3631.09	0.00	0.00	0.00	0.024
8.00	-75.97	-0.54	0.00	-72.98	0.00	72.98	3633.16	1026.69	4145.10	3589.13	0.00	0.00	-0.01	0.024
10.00	-74.60	-0.54	0.00	-71.90	0.00	71.90	3619.85	1018.47	4078.97	3547.13	0.01	0.01	-0.01	0.024
12.00	-73.24	-0.54	0.00	-70.81	0.00	70.81	3606.29	1010.25	4013.38	3505.10	0.01	0.01	-0.01	0.023
14.00	-71.88	-0.54	0.00	-69.73	0.00	69.73	3592.48	1002.02	3948.31	3463.03	0.01	0.01	-0.01	0.023
16.00	-70.52	-0.54	0.00	-68.64	0.00	68.64	3578.41	993.80	3883.78	3420.94	0.02	0.02	-0.01	0.023
16.25	-70.29	-0.55	0.00	-68.50	0.00	68.50	3576.63	992.77	3875.75	3415.68	0.02	0.02	-0.01	0.022
18.00	-68.69	-0.55	0.00	-67.55	0.00	67.55	3564.09	985.58	3819.78	3378.83	0.02	0.02	-0.01	0.026
18.63	-68.11	-0.55	0.00	-67.20	0.00	67.20	3559.52	982.99	3799.73	3365.57	0.02	0.02	-0.01	0.025
18.88	-67.88	-0.55	0.00	-67.07	0.00	67.07	3557.70	981.96	3791.79	3360.30	0.03	0.03	-0.01	0.021
20.00	-66.86	-0.55	0.00	-66.45	0.00	66.45	3549.51	977.36	3756.31	3336.71	0.03	0.03	-0.01	0.024
22.00	-65.04	-0.55	0.00	-65.36	0.00	65.36	3563.12	985.03	3815.51	3376.01	0.03	0.03	-0.02	0.024
24.00	-63.69	-0.55	0.00	-64.26	0.00	64.26	3548.52	976.81	3752.08	3333.89	0.04	0.04	-0.02	0.023
26.00	-62.34	-0.55	0.00	-63.16	0.00	63.16	3533.67	968.58	3689.18	3291.77	0.05	0.05	-0.02	0.023
28.00	-61.00	-0.55	0.00	-62.06	0.00	62.06	3518.56	960.36	3626.81	3249.64	0.06	0.06	-0.02	0.023
30.00	-59.29	-0.55	0.00	-60.96	0.00	60.96	3503.20	952.14	3564.97	3207.53	0.06	0.06	-0.02	0.022
31.00	-58.44	-0.55	0.00	-60.41	0.00	60.41	3495.43	948.03	3534.25	3186.48	0.07	0.07	-0.02	0.017
32.00	-57.59	-0.55	0.00	-59.86	0.00	59.86	3487.59	943.92	3503.66	3165.43	0.07	0.07	-0.02	0.020
33.38	-56.93	-0.55	0.00	-59.10	0.00	59.10	3476.66	938.24	3461.67	3136.39	0.08	0.08	-0.02	0.020
34.00	-56.63	-0.55	0.00	-58.76	0.00	58.76	3471.72	935.70	3442.89	3123.35	0.08	0.08	-0.02	0.024
36.00	-55.69	-0.55	0.00	-57.65	0.00	57.65	3455.59	927.47	3382.65	3081.29	0.09	0.09	-0.03	0.024
38.00	-54.74	-0.55	0.00	-56.55	0.00	56.55	3439.21	919.25	3322.94	3039.26	0.10	0.10	-0.03	0.024
40.00	-53.79	-0.55	0.00	-55.44	0.00	55.44	3422.57	911.03	3263.76	2997.28	0.12	0.12	-0.03	0.024
42.00	-52.85	-0.56	0.00	-54.33	0.00	54.33	3405.68	902.81	3205.11	2955.34	0.13	0.13	-0.03	0.023
44.00	-51.92	-0.56	0.00	-53.22	0.00	53.22	3388.54	894.58	3146.99	2913.44	0.14	0.14	-0.03	0.023
45.16	-51.38	-0.56	0.00	-52.58	0.00	52.58	3378.48	889.81	3113.53	2889.17	0.15	0.15	-0.03	0.023
46.00	-50.99	-0.56	0.00	-52.11	0.00	52.11	3371.14	886.36	3089.41	2871.61	0.16	0.16	-0.03	0.017
48.00	-50.07	-0.56	0.00	-51.00	0.00	51.00	3353.48	878.14	3032.36	2829.83	0.17	0.17	-0.04	0.021
50.00	-49.14	-0.56	0.00	-49.89	0.00	49.89	3335.57	869.92	2975.84	2788.13	0.19	0.19	-0.04	0.021
52.00	-47.80	-0.56	0.00	-48.77	0.00	48.77	3317.41	861.69	2919.85	2746.50	0.20	0.20	-0.04	0.021
54.00	-46.47	-0.55	0.00	-47.66	0.00	47.66	3298.98	853.47	2864.39	2704.94	0.22	0.22	-0.04	0.020
56.00	-45.14	-0.55	0.00	-46.56	0.00	46.56	3316.18	861.14	2916.12	2743.71	0.24	0.24	-0.04	0.020
58.00	-44.23	-0.55	0.00	-45.45	0.00	45.45	3297.74	852.92	2860.70	2702.16	0.25	0.25	-0.04	0.019
60.00	-43.32	-0.55	0.00	-44.35	0.00	44.35	3279.05	844.70	2805.81	2660.71	0.27	0.27	-0.04	0.021
62.00	-42.42	-0.55	0.00	-43.24	0.00	43.24	3260.10	836.48	2751.45	2619.34	0.29	0.29	-0.05	0.020
64.00	-41.52	-0.55	0.00	-42.14	0.00	42.14	3240.90	828.25	2697.62	2578.08	0.31	0.31	-0.05	0.020
66.00	-40.62	-0.55	0.00	-41.04	0.00	41.04	3221.44	820.03	2644.33	2536.92	0.33	0.33	-0.05	0.020
68.00	-39.73	-0.55	0.00	-39.94	0.00	39.94	3201.73	811.81	2591.56	2495.87	0.35	0.35	-0.05	0.019
70.00	-38.84	-0.55	0.00	-38.84	0.00	38.84	3181.76	803.59	2539.33	2454.94	0.38	0.38	-0.05	0.019
72.00	-37.96	-0.55	0.00	-37.74	0.00	37.74	3161.54	795.36	2487.63	2414.13	0.40	0.40	-0.06	0.019
74.00	-37.08	-0.55	0.00	-36.65	0.00	36.65	3141.06	787.14	2436.47	2373.45	0.42	0.42	-0.06	0.018
76.00	-36.20	-0.55	0.00	-35.56	0.00	35.56	3120.33	778.92	2385.83	2332.91	0.45	0.45	-0.06	0.018
78.00	-35.33	-0.54	0.00	-34.46	0.00	34.46	3099.34	770.70	2335.73	2292.51	0.47	0.47	-0.06	0.018

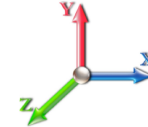
Seismic Segment Forces (Factored)

Structure: CT02049-S-SBA	Code: TIA-222-H	11/17/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Load Case: 0.9D + 1.0Ev + 1.0Eh						Iterations 23
Gust Response Factor	1.10			Sds	0.21	Ss 0.20
Dead Load Factor	0.90	Seismic Load Factor	1.00	Sd1	0.09	S1 0.05
Wind Load Factor	0.00	Structure Frequency (f1)	0.24	SA	0.02	Seismic Importance Factor 1.00



Top Elev (ft)	Description	Wz (lb)	Hz (lb)	Vertical Ev (lb)	Lateral Fs (lb)	R: 1.50
0.00	RB1 RB2	0.00	0.00	0.00	0.00	
1.00	RT2 RB3 RB4	519.85	0.50	22.07	0.00	
2.00		519.05	1.50	22.04	0.00	
4.00		1035.7	3.00	43.97	0.00	
6.00		1032.5	5.00	43.83	0.01	
8.00		1029.3	7.00	43.70	0.02	
10.00		1026.1	9.00	43.56	0.04	
12.00		1022.9	11.00	43.43	0.06	
14.00		1019.7	13.00	43.29	0.08	
16.00	Bot - Section 2	1016.5	15.00	43.16	0.10	
16.25	RT1 RB5	175.77	16.13	7.46	0.00	
18.00		1227.5	17.13	52.11	0.20	
18.63	RB6	440.73	18.31	18.71	0.03	
18.88	RT3 RT4	174.72	18.75	7.42	0.00	
20.00		781.51	19.44	33.18	0.10	
22.00	Top - Section 1	1390.5	21.00	59.03	0.38	
24.00		1009.9	23.00	42.88	0.24	
26.00		1006.8	25.00	42.74	0.28	
28.00		1003.6	27.00	42.61	0.33	
30.00	RB7	1270.4	29.00	53.93	0.60	
31.00	RT5	634.01	30.50	26.92	0.17	
32.00		633.22	31.50	26.88	0.18	
33.38	RT6	499.93	32.69	21.22	0.12	
34.00		224.11	33.69	9.51	0.03	
36.00		720.85	35.00	30.60	0.28	
38.00		717.66	37.00	30.47	0.31	
40.00	Appurtenance(s)	724.48	39.00	30.76	0.35	
42.00		711.00	41.00	30.18	0.38	
44.00		707.81	43.00	30.05	0.41	
45.16	RB8	409.07	44.58	17.37	0.15	
46.00	RT7	295.55	45.58	12.55	0.08	
48.00		701.43	47.00	29.78	0.48	
50.00	Bot - Section 3	698.25	49.00	29.64	0.52	
52.00		1036.9	51.00	44.02	1.24	
54.00		1030.5	53.00	43.75	1.32	
56.00	Top - Section 2	1024.2	55.00	43.48	1.41	
58.00	RT8 RB9	691.65	57.00	29.36	0.69	
60.00		688.47	59.00	29.23	0.73	
62.00		685.28	61.00	29.09	0.78	
64.00		682.09	63.00	28.96	0.82	
66.00		678.90	65.00	28.82	0.86	
68.00		675.71	67.00	28.69	0.91	
70.00		672.52	69.00	28.55	0.96	
72.00		669.34	71.00	28.42	1.00	
74.00		666.15	73.00	28.28	1.05	
76.00		662.96	75.00	28.14	1.10	

Seismic Segment Forces (Factored)

Structure: CT02049-S-SBA	Code: TIA-222-H	11/17/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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78.00	RT9 RB10	659.77	77.00	28.01	1.15
80.00	Top - Section 3	656.58	79.00	27.87	1.19
82.00		604.81	81.00	25.68	1.07
84.00		602.15	83.00	25.56	1.11
86.00		599.49	85.00	25.45	1.15
88.00		596.84	87.00	25.34	1.20
90.00		594.18	89.00	25.22	1.24
92.00		591.52	91.00	25.11	1.29
94.00		588.87	93.00	25.00	1.33
95.00	Bot - Section 5	293.44	94.50	12.46	0.34
95.58	RT10	236.82	95.29	10.05	0.23
96.00		171.21	95.79	7.27	0.12
98.00		812.07	97.00	34.48	2.75
100.00	Top - Section 4	536.75	99.00	22.79	1.25
102.00		312.52	101.00	13.27	0.44
104.00		309.86	103.00	13.15	0.45
106.00		307.20	105.00	13.04	0.46
108.00		304.55	107.00	12.93	0.47
110.00	Appurtenance(s)	357.89	109.00	15.19	0.68
112.00		298.30	111.00	12.66	0.49
114.00		295.64	113.00	12.55	0.50
115.00	Top - Section 5	146.82	114.50	6.23	0.13
116.00		125.94	115.50	5.35	0.09
118.00		250.28	117.00	10.63	0.38
120.00		248.15	119.00	10.53	0.39
122.00		246.03	121.00	10.44	0.39
124.00		243.90	123.00	10.35	0.40
126.00		241.78	125.00	10.26	0.41
128.00		239.65	127.00	10.17	0.41
130.00		237.52	129.00	10.08	0.42
131.75	Appurtenance(s)	470.09	130.88	19.96	1.68
132.00		29.31	131.88	1.24	0.01
133.00	Appurtenance(s)	4470.0	132.50	189.77	155.74
134.00		104.38	133.50	4.43	0.09
134.75	Appurtenance(s)	276.24	134.38	11.73	0.61
136.00		129.23	135.38	5.49	0.14
138.00		205.05	137.00	8.70	0.35
140.00		202.92	139.00	8.61	0.35
142.00	Appurtenance(s)	4731.1	141.00	200.85	197.57
144.00		174.57	143.00	7.41	0.28
145.00	Top - Section 6	86.49	144.50	3.67	0.07
146.00		84.37	145.50	3.58	0.07
148.00		167.18	147.00	7.10	0.27
150.00	Top - Section 7	165.11	149.00	7.01	0.27
152.00	Appurtenance(s)	2483.5	151.00	105.44	62.44
154.00		120.90	153.00	5.13	0.15
156.00		120.90	155.00	5.13	0.16
158.00		120.90	157.00	5.13	0.16
160.00	Appurtenance(s)	2553.6	159.00	108.41	73.19
Totals:		62,652.3		2,659.8	534.3
					Total Wind: 33,650.2

Wind Loading - Shaft

Structure: CT02049-S-SBA	Code: TIA-222-H	11/17/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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80.00 Top - Section 3	1.00	0.93	7.101	7.81	179.17	0.950	0.000	2.00	6.306	5.99	46.8	0.0	297.3
82.00	1.00	0.93	7.151	7.87	177.88	0.950	0.000	2.00	6.239	5.93	46.6	0.0	245.5
84.00	1.00	0.94	7.200	7.92	176.57	0.950	0.000	2.00	6.172	5.86	46.4	0.0	242.8
86.00	1.00	0.95	7.249	7.97	175.23	0.950	0.000	2.00	6.106	5.80	46.3	0.0	240.2
88.00	1.00	0.95	7.297	8.03	173.87	0.950	0.000	2.00	6.039	5.74	46.0	0.0	237.5
90.00	1.00	0.96	7.344	8.08	172.49	0.950	0.000	2.00	5.972	5.67	45.8	0.0	234.9
92.00	1.00	0.96	7.390	8.13	171.08	0.950	0.000	2.00	5.905	5.61	45.6	0.0	232.2
94.00	1.00	0.97	7.436	8.18	169.65	0.950	0.000	2.00	5.838	5.55	45.4	0.0	229.6
95.00 Bot - Section 5	1.00	0.97	7.458	8.20	168.92	0.950	0.000	1.00	2.894	2.75	22.6	0.0	113.8
95.58 RT10	1.00	0.98	7.471	8.22	168.50	0.950	0.000	0.58	1.702	1.62	13.3	0.0	132.6
96.00	1.00	0.98	7.480	8.23	168.19	0.950	0.000	0.42	1.229	1.17	9.6	0.0	95.8
98.00	1.00	0.98	7.525	8.28	166.72	0.950	0.000	2.00	5.812	5.52	45.7	0.0	452.8
100.00 Top - Section 4	1.00	0.99	7.568	8.32	165.23	0.950	0.000	2.00	5.745	5.46	45.4	0.0	447.4
102.00	1.00	0.99	7.611	8.37	166.91	0.950	0.000	2.00	5.678	5.39	45.2	0.0	223.2
104.00	1.00	1.00	7.653	8.42	165.39	0.950	0.000	2.00	5.611	5.33	44.9	0.0	220.5
106.00	1.00	1.00	7.695	8.46	163.85	0.950	0.000	2.00	5.544	5.27	44.6	0.0	217.9
108.00	1.00	1.01	7.736	8.51	162.29	0.950	0.000	2.00	5.477	5.20	44.3	0.0	215.2
110.00 Appurtenance(s)	1.00	1.02	7.777	8.55	160.71	0.950	0.000	2.00	5.410	5.14	44.0	0.0	212.6
112.00	1.00	1.02	7.817	8.60	159.12	0.950	0.000	2.00	5.343	5.08	43.6	0.0	209.9
114.00	1.00	1.03	7.857	8.64	157.51	0.950	0.000	2.00	5.276	5.01	43.3	0.0	207.3
115.00 Top - Section 5	1.00	1.03	7.876	8.66	156.70	0.950	0.000	1.00	2.613	2.48	21.5	0.0	102.6
116.00	1.00	1.03	7.896	8.69	155.89	0.950	0.000	1.00	2.596	2.47	21.4	0.0	81.7
118.00	1.00	1.04	7.935	8.73	154.25	0.950	0.000	2.00	5.142	4.89	42.6	0.0	161.9
120.00	1.00	1.04	7.973	8.77	152.59	0.950	0.000	2.00	5.075	4.82	42.3	0.0	159.8
122.00	1.00	1.05	8.011	8.81	150.92	0.950	0.000	2.00	5.008	4.76	41.9	0.0	157.6
124.00	1.00	1.05	8.048	8.85	149.24	0.950	0.000	2.00	4.941	4.69	41.6	0.0	155.5
126.00	1.00	1.06	8.085	8.89	147.54	0.950	0.000	2.00	4.874	4.63	41.2	0.0	153.4
128.00	1.00	1.06	8.121	8.93	145.83	0.950	0.000	2.00	4.807	4.57	40.8	0.0	151.3
130.00	1.00	1.07	8.157	8.97	144.10	0.950	0.000	2.00	4.741	4.50	40.4	0.0	149.1
131.75 Appurtenance(s)	1.00	1.07	8.189	9.01	142.58	0.950	0.000	1.75	4.093	3.89	35.0	0.0	128.8
132.00	1.00	1.07	8.193	9.01	142.36	0.950	0.000	0.25	0.581	0.55	5.0	0.0	18.3
133.00 Appurtenance(s)	1.00	1.07	8.211	9.03	141.49	0.950	0.000	1.00	2.312	2.20	19.8	0.0	72.7
134.00	1.00	1.07	8.228	9.05	140.61	0.950	0.000	1.00	2.295	2.18	19.7	0.0	72.2
134.75 Appurtenance(s)	1.00	1.08	8.241	9.07	139.95	0.950	0.000	0.75	1.710	1.62	14.7	0.0	53.8
136.00	1.00	1.08	8.263	9.09	138.84	0.950	0.000	1.25	2.829	2.69	24.4	0.0	89.0
138.00	1.00	1.08	8.298	9.13	137.07	0.950	0.000	2.00	4.473	4.25	38.8	0.0	140.6
140.00	1.00	1.09	8.332	9.17	135.28	0.950	0.000	2.00	4.406	4.19	38.4	0.0	138.5
142.00 Appurtenance(s)	1.00	1.09	8.366	9.20	133.48	0.950	0.000	2.00	4.339	4.12	37.9	0.0	136.4
144.00	1.00	1.10	8.399	9.24	131.66	0.950	0.000	2.00	4.272	4.06	37.5	0.0	134.3
145.00 Top - Section 6	1.00	1.10	8.416	9.26	130.75	0.950	0.000	1.00	2.111	2.01	18.6	0.0	66.3
146.00	1.00	1.10	8.432	9.28	125.44	0.600	0.000	1.00	2.023	1.21	11.3	0.0	64.2
148.00	1.00	1.11	8.465	9.31	123.67	0.600	0.000	2.00	3.998	2.40	22.3	0.0	126.9
150.00 Top - Section 7	1.00	1.11	8.498	9.35	121.88	0.600	0.000	2.00	3.933	2.36	22.1	0.0	124.8
152.00 Appurtenance(s)	1.00	1.11	8.530	9.38	83.48	0.645*	0.000	2.00	2.667	1.72	16.1	0.0	84.2
154.00	1.00	1.12	8.562	9.42	83.64	0.645*	0.000	2.00	2.667	1.72	16.2	0.0	84.2
156.00	1.00	1.12	8.593	9.45	83.79	0.645*	0.000	2.00	2.667	1.72	16.3	0.0	84.2
158.00	1.00	1.13	8.625	9.49	83.94	0.645*	0.000	2.00	2.667	1.72	16.3	0.0	84.2
160.00 Appurtenance(s)	1.00	1.13	8.656	9.52	84.09	0.645*	0.000	2.00	2.667	1.72	16.4	0.0	84.2
Totals:								160.00	3,428.3	23,786.1			

* Cf Adjusted by Linear Load Ra Effect

Discrete Appurtenance Forces

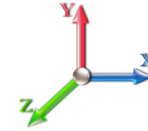
Structure: CT02049-S-SBA	Code: TIA-222-H	11/17/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00
Wind Load Factor 1.00



Iterations 26

No.	Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	Orient Factor x Ka	Ka	Total CaAa (sf)	Dead Load (lb)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)
1	160.00	VZS01	3	8.687	9.555	0.62	0.90	8.01	261.30	0.000	2.000	76.55	0.00	153.09
2	160.00	DB222	1	8.732	9.606	1.00	1.00	2.25	16.00	0.000	5.000	21.61	0.00	108.06
3	160.00	DB846F65ZAXY	6	8.687	9.555	0.84	0.90	35.41	126.00	0.000	2.000	338.31	0.00	676.61
4	160.00	Low Profile Platform	1	8.687	9.555	1.00	1.00	22.00	1200.00	0.000	2.000	210.22	0.00	420.43
5	160.00	JAHH-65B-R3B	6	8.687	9.555	0.75	0.90	40.83	324.00	0.000	2.000	390.15	0.00	780.31
6	160.00	6' Lightning rod	1	8.702	9.572	1.00	1.00	0.38	6.50	0.000	3.000	3.64	0.00	10.91
7	160.00	CBC78T-DS-43	1	8.687	9.555	1.00	1.00	0.37	20.70	0.000	2.000	3.54	0.00	7.07
8	160.00	B2/B66A RRH-BR049	3	8.687	9.555	0.60	0.90	3.38	210.00	0.000	2.000	32.32	0.00	64.65
9	160.00	B5/B13 RRH-BR04C	3	8.687	9.555	0.60	0.90	3.38	253.20	0.000	2.000	32.32	0.00	64.65
10	160.00	Commscope	1	8.687	9.555	1.00	1.00	2.51	15.00	0.000	2.000	23.98	0.00	47.97
11	152.00	MC-PK8-DSH	1	8.530	9.383	1.00	1.00	37.59	1727.00	0.000	0.000	352.70	0.00	0.00
12	152.00	MX08FRO665-21	3	8.530	9.383	0.55	0.75	20.80	193.50	0.000	0.000	195.13	0.00	0.00
13	152.00	TA08025-B605	3	8.530	9.383	0.50	0.75	2.95	225.00	0.000	0.000	27.72	0.00	0.00
14	152.00	TA08025-B604	3	8.530	9.383	0.50	0.75	2.95	191.70	0.000	0.000	27.72	0.00	0.00
15	152.00	RDIDC-9181-OF-48	1	8.530	9.383	0.75	0.75	1.51	21.90	0.000	0.000	14.14	0.00	0.00
16	142.00	Ericsson 4460 B25 + B66	4	8.366	9.202	0.50	0.75	5.73	436.00	0.000	0.000	52.72	0.00	0.00
17	142.00	Ericsson Air 6419 B41	4	8.366	9.202	0.57	0.75	8.66	264.40	0.000	0.000	79.73	0.00	0.00
18	142.00	Mod	1	8.366	9.202	1.00	1.00	12.00	300.00	0.000	0.000	110.43	0.00	0.00
19	142.00	4449 B71 + B85	4	8.366	9.202	0.54	0.80	4.22	292.80	0.000	0.000	38.87	0.00	0.00
20	142.00	KRY 112 144/1	3	8.366	9.202	0.38	0.75	0.46	33.00	0.000	0.000	4.24	0.00	0.00
21	142.00	APXVA18-43-C-A20	1	8.366	9.202	0.61	0.75	5.93	45.40	0.000	0.000	54.61	0.00	0.00
22	142.00	APXVAARR24_43-U-NA2	3	8.366	9.202	0.52	0.75	31.88	384.00	0.000	0.000	293.35	0.00	0.00
23	142.00	KRD 9011461-B66A-B2A	4	8.366	9.202	0.65	0.75	16.99	528.80	0.000	0.000	156.36	0.00	0.00
24	142.00	Platform w/ HR & Bracing	1	8.366	9.202	1.00	1.00	52.00	2246.00	0.000	0.000	478.52	0.00	0.00
25	134.75	AIR 6419 B77G	3	8.241	9.065	0.61	0.80	6.93	198.30	0.000	0.000	62.83	0.00	0.00
26	133.00	DMP65R-BU6EA-K	2	8.211	9.032	0.57	0.80	19.45	202.00	0.000	0.000	175.65	0.00	0.00
27	133.00	DMP65R-BU8EA-K	1	8.211	9.032	0.58	0.80	10.44	95.70	0.000	0.000	94.26	0.00	0.00
28	133.00	Kathrein 800-10965	3	8.211	9.032	0.57	0.80	23.53	325.80	0.000	0.000	212.54	0.00	0.00
29	133.00	(3) SitePro 1 P/N	2	8.211	9.032	0.56	0.75	24.01	2715.54	0.000	0.000	216.83	0.00	0.00
30	133.00	Powerwave LGP21401	6	8.211	9.032	0.54	0.80	4.15	84.60	0.000	0.000	37.47	0.00	0.00
31	133.00	Ericsson RRUS-32 RRU	3	8.211	9.032	0.54	0.80	6.22	231.00	0.000	0.000	56.20	0.00	0.00
32	133.00	Ericsson B2/B66A 8843	3	8.211	9.032	0.54	0.80	2.64	216.00	0.000	0.000	23.82	0.00	0.00
33	133.00	Ericsson B5/B12 4449	3	8.211	9.032	0.54	0.80	3.17	213.00	0.000	0.000	28.61	0.00	0.00
34	133.00	Raycap DC6-48-60-18-8F	2	8.211	9.032	0.54	0.80	0.99	63.60	0.000	0.000	8.91	0.00	0.00
35	133.00	4478 B14	3	8.211	9.032	0.54	0.80	2.96	179.70	0.000	0.000	26.72	0.00	0.00
36	133.00	DC9-48-60-24-8C-EV	1	8.211	9.032	0.80	0.80	0.91	26.20	0.000	0.000	8.24	0.00	0.00
37	131.75	AIR 6449 B77D	3	8.189	9.007	0.68	0.80	8.43	264.00	0.000	0.000	75.89	0.00	0.00
38	110.00	3 ft Standoff	1	7.777	8.555	1.00	1.00	2.63	40.00	0.000	0.000	22.50	0.00	0.00
39	110.00	DB222	1	7.882	8.670	1.00	1.00	2.65	16.00	0.000	5.292	22.98	0.00	121.59
40	40.00	GPS	1	5.825	6.407	1.00	1.00	1.00	10.00	0.000	0.000	6.41	0.00	0.00

Totals: 14,203.64

4,098.72

Total Applied Force Summary

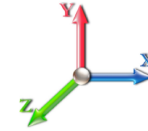
Structure: CT02049-S-SBA	Code: TIA-222-H	11/17/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00
Wind Load Factor 1.00



Iterations 26

Elev (ft)	Description	Lateral FX (-) (lb)	Axial FY (-) (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)
0.00		0.00	0.00	0.00	0.00
1.00		24.85	554.82	0.00	0.00
2.00		24.79	554.03	0.00	0.00
4.00		49.38	1105.66	0.00	0.00
6.00		49.11	1102.47	0.00	0.00
8.00		48.85	1099.28	0.00	0.00
10.00		48.59	1096.10	0.00	0.00
12.00		48.33	1092.91	0.00	0.00
14.00		48.06	1089.72	0.00	0.00
16.00		47.80	1086.53	0.00	0.00
16.25		6.05	184.51	0.00	0.00
18.00		42.25	1288.78	0.00	0.00
18.63		15.16	462.77	0.00	0.00
18.88		6.01	183.46	0.00	0.00
20.00		26.87	820.68	0.00	0.00
22.00		47.78	1460.53	0.00	0.00
24.00		47.26	1079.94	0.00	0.00
26.00		47.00	1076.75	0.00	0.00
28.00		46.73	1073.56	0.00	0.00
30.00		50.02	1370.37	0.00	0.00
31.00		25.14	683.99	0.00	0.00
32.00		25.31	683.19	0.00	0.00
33.38		30.82	527.50	0.00	0.00
34.00		13.86	236.50	0.00	0.00
36.00		45.18	760.81	0.00	0.00
38.00		45.49	757.62	0.00	0.00
40.00	(1) attachments	52.16	764.43	0.00	0.00
42.00		45.98	750.92	0.00	0.00
44.00		46.18	747.73	0.00	0.00
45.16		26.79	432.23	0.00	0.00
46.00		19.41	312.32	0.00	0.00
48.00		46.48	741.36	0.00	0.00
50.00		46.59	738.17	0.00	0.00
52.00		47.53	1076.89	0.00	0.00
54.00		47.60	1070.51	0.00	0.00
56.00		47.64	1064.13	0.00	0.00
58.00		47.67	731.58	0.00	0.00
60.00		47.68	728.39	0.00	0.00
62.00		47.67	725.20	0.00	0.00
64.00		47.63	722.01	0.00	0.00
66.00		47.58	718.82	0.00	0.00
68.00		47.52	715.64	0.00	0.00
70.00		47.43	712.45	0.00	0.00
72.00		47.34	709.26	0.00	0.00
74.00		47.22	706.07	0.00	0.00
76.00		47.09	702.88	0.00	0.00
78.00		46.95	699.69	0.00	0.00

Total Applied Force Summary

Structure: CT02049-S-SBA	Code: TIA-222-H	11/17/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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80.00		46.79	696.51	0.00	0.00
82.00		46.63	644.73	0.00	0.00
84.00		46.44	642.07	0.00	0.00
86.00		46.25	639.42	0.00	0.00
88.00		46.04	636.76	0.00	0.00
90.00		45.83	634.10	0.00	0.00
92.00		45.60	631.45	0.00	0.00
94.00		45.36	628.79	0.00	0.00
95.00		22.55	313.40	0.00	0.00
95.58		13.29	248.40	0.00	0.00
96.00		9.61	179.59	0.00	0.00
98.00		45.70	851.99	0.00	0.00
100.00		45.43	546.68	0.00	0.00
102.00		45.16	322.44	0.00	0.00
104.00		44.87	319.78	0.00	0.00
106.00		44.58	317.13	0.00	0.00
108.00		44.28	314.47	0.00	0.00
110.00	(2) attachments	89.44	367.81	0.00	121.59
112.00		43.65	308.12	0.00	0.00
114.00		43.32	305.46	0.00	0.00
115.00		21.51	151.73	0.00	0.00
116.00		21.42	130.85	0.00	0.00
118.00		42.64	260.10	0.00	0.00
120.00		42.29	257.97	0.00	0.00
122.00		41.92	255.85	0.00	0.00
124.00		41.56	253.72	0.00	0.00
126.00		41.18	251.60	0.00	0.00
128.00		40.80	249.47	0.00	0.00
130.00		40.41	247.34	0.00	0.00
131.75	(3) attachments	110.91	478.68	0.00	0.00
132.00		4.97	30.54	0.00	0.00
133.00	(29) attachments	909.07	4474.95	0.00	0.00
134.00		19.73	107.96	0.00	0.00
134.75	(3) attachments	77.56	278.92	0.00	0.00
136.00		24.43	133.71	0.00	0.00
138.00		38.78	212.20	0.00	0.00
140.00		38.36	210.08	0.00	0.00
142.00	(25) attachments	1306.75	4738.35	0.00	0.00
144.00		37.50	179.05	0.00	0.00
145.00		18.56	88.73	0.00	0.00
146.00		11.26	86.61	0.00	0.00
148.00		22.34	171.66	0.00	0.00
150.00		22.06	169.58	0.00	0.00
152.00	(11) attachments	633.56	2488.07	0.00	0.00
154.00		16.20	124.98	0.00	0.00
156.00		16.26	124.98	0.00	0.00
158.00		16.32	124.98	0.00	0.00
160.00	(26) attachments	1149.02	2557.68	0.00	2333.75
Totals:		7,527.01	65,392.62	0.00	2,455.34

Linear Appurtenance Segment Forces (Factored)

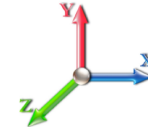
Structure: CT02049-S-SBA	Code: TIA-222-H	11/17/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00
Wind Load Factor 1.00



Iterations 26

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
1.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.17	0.00	0.108	1.023	5.361	0.00	2.20
1.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.108	1.023	5.361	0.00	0.52
1.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.108	1.023	5.361	0.00	1.99
1.00	1 5/8" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.108	1.023	5.361	0.00	2.20
1.00	1-1/4" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.108	1.023	5.361	0.00	1.91
1.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.108	1.023	5.361	0.00	0.52
1.00	1" Reinforcing plate	Yes	1.00	0.000	1.00	0.08	0.00	0.108	1.023	5.361	0.00	120.00
1.00	C10x15.3	Yes	1.00	0.000	2.60	0.22	0.00	0.108	1.023	5.361	0.00	180.00
2.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.17	0.00	0.108	1.024	5.361	0.00	2.20
2.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.108	1.024	5.361	0.00	0.52
2.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.108	1.024	5.361	0.00	1.99
2.00	1 5/8" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.108	1.024	5.361	0.00	2.20
2.00	1-1/4" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.108	1.024	5.361	0.00	1.91
2.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.108	1.024	5.361	0.00	0.52
2.00	1" Reinforcing plate	Yes	1.00	0.000	1.00	0.08	0.00	0.108	1.024	5.361	0.00	120.00
2.00	C10x15.3	Yes	1.00	0.000	2.60	0.22	0.00	0.108	1.024	5.361	0.00	180.00
4.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.109	1.026	5.361	0.00	4.40
4.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.109	1.026	5.361	0.00	1.04
4.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.109	1.026	5.361	0.00	3.98
4.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.109	1.026	5.361	0.00	4.40
4.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.109	1.026	5.361	0.00	3.82
4.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.109	1.026	5.361	0.00	1.04
4.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.17	0.00	0.109	1.026	5.361	0.00	240.00
4.00	C10x15.3	Yes	2.00	0.000	2.60	0.43	0.00	0.109	1.026	5.361	0.00	360.00
6.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.109	1.028	5.361	0.00	4.40
6.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.109	1.028	5.361	0.00	1.04
6.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.109	1.028	5.361	0.00	3.98
6.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.109	1.028	5.361	0.00	4.40
6.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.109	1.028	5.361	0.00	3.82
6.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.109	1.028	5.361	0.00	1.04
6.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.17	0.00	0.109	1.028	5.361	0.00	240.00
6.00	C10x15.3	Yes	2.00	0.000	2.60	0.43	0.00	0.109	1.028	5.361	0.00	360.00
8.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.110	1.031	5.361	0.00	4.40
8.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.110	1.031	5.361	0.00	1.04
8.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.110	1.031	5.361	0.00	3.98
8.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.110	1.031	5.361	0.00	4.40
8.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.110	1.031	5.361	0.00	3.82
8.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.110	1.031	5.361	0.00	1.04
8.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.17	0.00	0.110	1.031	5.361	0.00	240.00
8.00	C10x15.3	Yes	2.00	0.000	2.60	0.43	0.00	0.110	1.031	5.361	0.00	360.00
10.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.111	1.034	5.361	0.00	4.40
10.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.111	1.034	5.361	0.00	1.04
10.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.111	1.034	5.361	0.00	3.98
10.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.111	1.034	5.361	0.00	4.40
10.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.111	1.034	5.361	0.00	3.82
10.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.111	1.034	5.361	0.00	1.04
10.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.17	0.00	0.111	1.034	5.361	0.00	240.00

Linear Appurtenance Segment Forces (Factored)

Structure: CT02049-S-SBA	Code: TIA-222-H	11/17/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



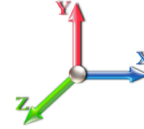
Page: 84

Load Case: 1.0D + 1.0W 60 mph Wind

Iterations 26

Dead Load Factor 1.00

Wind Load Factor 1.00



Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
10.00	C10x15.3	Yes	2.00	0.000	2.60	0.43	0.00	0.111	1.034	5.361	0.00	360.00
12.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.112	1.036	5.361	0.00	4.40
12.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.112	1.036	5.361	0.00	1.04
12.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.112	1.036	5.361	0.00	3.98
12.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.112	1.036	5.361	0.00	4.40
12.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.112	1.036	5.361	0.00	3.82
12.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.112	1.036	5.361	0.00	1.04
12.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.17	0.00	0.112	1.036	5.361	0.00	240.00
12.00	C10x15.3	Yes	2.00	0.000	2.60	0.43	0.00	0.112	1.036	5.361	0.00	360.00
14.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.113	1.039	5.361	0.00	4.40
14.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.113	1.039	5.361	0.00	1.04
14.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.113	1.039	5.361	0.00	3.98
14.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.113	1.039	5.361	0.00	4.40
14.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.113	1.039	5.361	0.00	3.82
14.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.113	1.039	5.361	0.00	1.04
14.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.17	0.00	0.113	1.039	5.361	0.00	240.00
14.00	C10x15.3	Yes	2.00	0.000	2.60	0.43	0.00	0.113	1.039	5.361	0.00	360.00
16.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.114	1.042	5.361	0.00	4.40
16.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.114	1.042	5.361	0.00	1.04
16.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.114	1.042	5.361	0.00	3.98
16.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.114	1.042	5.361	0.00	4.40
16.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.114	1.042	5.361	0.00	3.82
16.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.114	1.042	5.361	0.00	1.04
16.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.17	0.00	0.114	1.042	5.361	0.00	240.00
16.00	C10x15.3	Yes	2.00	0.000	2.60	0.43	0.00	0.114	1.042	5.361	0.00	360.00
16.25	1 5/8" Hybrid	Yes	0.25	0.000	2.00	0.04	0.00	0.114	1.043	5.361	0.00	0.55
16.25	7/8" Coax	Yes	0.25	0.000	0.00	0.00	0.00	0.114	1.043	5.361	0.00	0.13
16.25	1.75" Hybrid	Yes	0.25	0.000	0.00	0.00	0.00	0.114	1.043	5.361	0.00	0.50
16.25	1 5/8" Fiber	Yes	0.25	0.000	0.00	0.00	0.00	0.114	1.043	5.361	0.00	0.55
16.25	1-1/4" Fiber	Yes	0.25	0.000	0.00	0.00	0.00	0.114	1.043	5.361	0.00	0.48
16.25	7/8" Coax	Yes	0.25	0.000	0.00	0.00	0.00	0.114	1.043	5.361	0.00	0.13
16.25	1" Reinforcing plate	Yes	0.25	0.000	1.00	0.02	0.00	0.114	1.043	5.361	0.00	30.00
16.25	C10x15.3	Yes	0.25	0.000	2.60	0.05	0.00	0.114	1.043	5.361	0.00	45.00
18.00	1 5/8" Hybrid	Yes	1.75	0.000	2.00	0.29	0.00	0.115	1.045	5.361	0.00	3.85
18.00	7/8" Coax	Yes	1.75	0.000	0.00	0.00	0.00	0.115	1.045	5.361	0.00	0.91
18.00	1.75" Hybrid	Yes	1.75	0.000	0.00	0.00	0.00	0.115	1.045	5.361	0.00	3.48
18.00	1 5/8" Fiber	Yes	1.75	0.000	0.00	0.00	0.00	0.115	1.045	5.361	0.00	3.85
18.00	1-1/4" Fiber	Yes	1.75	0.000	0.00	0.00	0.00	0.115	1.045	5.361	0.00	3.34
18.00	7/8" Coax	Yes	1.75	0.000	0.00	0.00	0.00	0.115	1.045	5.361	0.00	0.91
18.00	1" Reinforcing plate	Yes	1.75	0.000	1.00	0.15	0.00	0.115	1.045	5.361	0.00	210.00
18.00	C10x15.3	Yes	1.75	0.000	2.60	0.38	0.00	0.115	1.045	5.361	0.00	315.00
18.63	1 5/8" Hybrid	Yes	0.63	0.000	2.00	0.10	0.00	0.116	1.047	5.361	0.00	1.39
18.63	7/8" Coax	Yes	0.63	0.000	0.00	0.00	0.00	0.116	1.047	5.361	0.00	0.33
18.63	1.75" Hybrid	Yes	0.63	0.000	0.00	0.00	0.00	0.116	1.047	5.361	0.00	1.25
18.63	1 5/8" Fiber	Yes	0.63	0.000	0.00	0.00	0.00	0.116	1.047	5.361	0.00	1.39
18.63	1-1/4" Fiber	Yes	0.63	0.000	0.00	0.00	0.00	0.116	1.047	5.361	0.00	1.20
18.63	7/8" Coax	Yes	0.63	0.000	0.00	0.00	0.00	0.116	1.047	5.361	0.00	0.33

Linear Appurtenance Segment Forces (Factored)

Structure: CT02049-S-SBA	Code: TIA-222-H	11/17/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



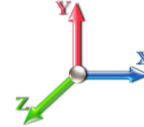
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Load Case: 1.0D + 1.0W 60 mph Wind

Iterations 26

Dead Load Factor 1.00

Wind Load Factor 1.00



Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
18.63	1" Reinforcing plate	Yes	0.63	0.000	1.00	0.05	0.00	0.116	1.047	5.361	0.00	75.60
18.63	C10x15.3	Yes	0.63	0.000	2.60	0.14	0.00	0.116	1.047	5.361	0.00	113.40
18.88	1 5/8" Hybrid	Yes	0.25	0.000	2.00	0.04	0.00	0.116	1.047	5.361	0.00	0.55
18.88	7/8" Coax	Yes	0.25	0.000	0.00	0.00	0.00	0.116	1.047	5.361	0.00	0.13
18.88	1.75" Hybrid	Yes	0.25	0.000	0.00	0.00	0.00	0.116	1.047	5.361	0.00	0.50
18.88	1 5/8" Fiber	Yes	0.25	0.000	0.00	0.00	0.00	0.116	1.047	5.361	0.00	0.55
18.88	1-1/4" Fiber	Yes	0.25	0.000	0.00	0.00	0.00	0.116	1.047	5.361	0.00	0.48
18.88	7/8" Coax	Yes	0.25	0.000	0.00	0.00	0.00	0.116	1.047	5.361	0.00	0.13
18.88	1" Reinforcing plate	Yes	0.25	0.000	1.00	0.02	0.00	0.116	1.047	5.361	0.00	30.00
18.88	C10x15.3	Yes	0.25	0.000	2.60	0.05	0.00	0.116	1.047	5.361	0.00	45.00
20.00	1 5/8" Hybrid	Yes	1.12	0.000	2.00	0.19	0.00	0.116	1.048	5.361	0.00	2.46
20.00	7/8" Coax	Yes	1.12	0.000	0.00	0.00	0.00	0.116	1.048	5.361	0.00	0.58
20.00	1.75" Hybrid	Yes	1.12	0.000	0.00	0.00	0.00	0.116	1.048	5.361	0.00	2.23
20.00	1 5/8" Fiber	Yes	1.12	0.000	0.00	0.00	0.00	0.116	1.048	5.361	0.00	2.46
20.00	1-1/4" Fiber	Yes	1.12	0.000	0.00	0.00	0.00	0.116	1.048	5.361	0.00	2.14
20.00	7/8" Coax	Yes	1.12	0.000	0.00	0.00	0.00	0.116	1.048	5.361	0.00	0.58
20.00	1" Reinforcing plate	Yes	1.12	0.000	1.00	0.09	0.00	0.116	1.048	5.361	0.00	134.40
20.00	C10x15.3	Yes	1.12	0.000	2.60	0.24	0.00	0.116	1.048	5.361	0.00	201.60
22.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.117	1.050	5.361	0.00	4.40
22.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.117	1.050	5.361	0.00	1.04
22.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.117	1.050	5.361	0.00	3.98
22.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.117	1.050	5.361	0.00	4.40
22.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.117	1.050	5.361	0.00	3.82
22.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.117	1.050	5.361	0.00	1.04
22.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.17	0.00	0.117	1.050	5.361	0.00	240.00
22.00	C10x15.3	Yes	2.00	0.000	2.60	0.43	0.00	0.117	1.050	5.361	0.00	360.00
24.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.116	1.048	5.361	0.00	4.40
24.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.116	1.048	5.361	0.00	1.04
24.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.116	1.048	5.361	0.00	3.98
24.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.116	1.048	5.361	0.00	4.40
24.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.116	1.048	5.361	0.00	3.82
24.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.116	1.048	5.361	0.00	1.04
24.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.17	0.00	0.116	1.048	5.361	0.00	240.00
24.00	C10x15.3	Yes	2.00	0.000	2.60	0.43	0.00	0.116	1.048	5.361	0.00	360.00
26.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.117	1.051	5.361	0.00	4.40
26.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.117	1.051	5.361	0.00	1.04
26.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.117	1.051	5.361	0.00	3.98
26.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.117	1.051	5.361	0.00	4.40
26.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.117	1.051	5.361	0.00	3.82
26.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.117	1.051	5.361	0.00	1.04
26.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.17	0.00	0.117	1.051	5.361	0.00	240.00
26.00	C10x15.3	Yes	2.00	0.000	2.60	0.43	0.00	0.117	1.051	5.361	0.00	360.00
28.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.118	1.054	5.361	0.00	4.40
28.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.118	1.054	5.361	0.00	1.04
28.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.118	1.054	5.361	0.00	3.98
28.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.118	1.054	5.361	0.00	4.40
28.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.118	1.054	5.361	0.00	3.82

Linear Appurtenance Segment Forces (Factored)

Structure: CT02049-S-SBA	Code: TIA-222-H	11/17/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



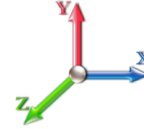
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Load Case: 1.0D + 1.0W 60 mph Wind

Iterations 26

Dead Load Factor 1.00

Wind Load Factor 1.00



Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
28.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.118	1.054	5.361	0.00	1.04
28.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.17	0.00	0.118	1.054	5.361	0.00	240.00
28.00	C10x15.3	Yes	2.00	0.000	2.60	0.43	0.00	0.118	1.054	5.361	0.00	360.00
30.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.145	1.136	5.365	0.00	4.40
30.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.145	1.136	5.365	0.00	1.04
30.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.145	1.136	5.365	0.00	3.98
30.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.145	1.136	5.365	0.00	4.40
30.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.145	1.136	5.365	0.00	3.82
30.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.145	1.136	5.365	0.00	1.04
30.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.145	1.136	5.365	0.00	300.00
30.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.17	0.00	0.145	1.136	5.365	0.00	240.00
30.00	C10x15.3	Yes	2.00	0.000	2.60	0.43	0.00	0.145	1.136	5.365	0.00	360.00
31.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.17	0.00	0.146	1.139	5.416	0.00	2.20
31.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.146	1.139	5.416	0.00	0.52
31.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.146	1.139	5.416	0.00	1.99
31.00	1 5/8" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.146	1.139	5.416	0.00	2.20
31.00	1-1/4" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.146	1.139	5.416	0.00	1.91
31.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.146	1.139	5.416	0.00	0.52
31.00	1.25" Reinforcing	Yes	1.00	0.000	1.25	0.10	0.00	0.146	1.139	5.416	0.00	150.00
31.00	1" Reinforcing plate	Yes	1.00	0.000	1.00	0.08	0.00	0.146	1.139	5.416	0.00	120.00
31.00	C10x15.3	Yes	1.00	0.000	2.60	0.22	0.00	0.146	1.139	5.416	0.00	180.00
32.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.17	0.00	0.147	1.141	5.465	0.00	2.20
32.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.147	1.141	5.465	0.00	0.52
32.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.147	1.141	5.465	0.00	1.99
32.00	1 5/8" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.147	1.141	5.465	0.00	2.20
32.00	1-1/4" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.147	1.141	5.465	0.00	1.91
32.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.147	1.141	5.465	0.00	0.52
32.00	1.25" Reinforcing	Yes	1.00	0.000	1.25	0.10	0.00	0.147	1.141	5.465	0.00	150.00
32.00	1" Reinforcing plate	Yes	1.00	0.000	1.00	0.08	0.00	0.147	1.141	5.465	0.00	120.00
32.00	C10x15.3	Yes	1.00	0.000	2.60	0.22	0.00	0.147	1.141	5.465	0.00	180.00
33.38	1 5/8" Hybrid	Yes	1.38	0.000	2.00	0.23	0.00	0.070	0.000	5.532	0.00	3.04
33.38	7/8" Coax	Yes	1.38	0.000	0.00	0.00	0.00	0.070	0.000	5.532	0.00	0.72
33.38	1.75" Hybrid	Yes	1.38	0.000	0.00	0.00	0.00	0.070	0.000	5.532	0.00	2.75
33.38	1 5/8" Fiber	Yes	1.38	0.000	0.00	0.00	0.00	0.070	0.000	5.532	0.00	3.04
33.38	1-1/4" Fiber	Yes	1.38	0.000	0.00	0.00	0.00	0.070	0.000	5.532	0.00	2.63
33.38	7/8" Coax	Yes	1.38	0.000	0.00	0.00	0.00	0.070	0.000	5.532	0.00	0.72
33.38	1.25" Reinforcing	Yes	1.38	0.000	1.25	0.14	0.00	0.070	0.000	5.532	0.00	207.00
34.00	1 5/8" Hybrid	Yes	0.62	0.000	2.00	0.10	0.00	0.070	0.000	5.561	0.00	1.36
34.00	7/8" Coax	Yes	0.62	0.000	0.00	0.00	0.00	0.070	0.000	5.561	0.00	0.32
34.00	1.75" Hybrid	Yes	0.62	0.000	0.00	0.00	0.00	0.070	0.000	5.561	0.00	1.23
34.00	1 5/8" Fiber	Yes	0.62	0.000	0.00	0.00	0.00	0.070	0.000	5.561	0.00	1.36
34.00	1-1/4" Fiber	Yes	0.62	0.000	0.00	0.00	0.00	0.070	0.000	5.561	0.00	1.18
34.00	7/8" Coax	Yes	0.62	0.000	0.00	0.00	0.00	0.070	0.000	5.561	0.00	0.32
34.00	1.25" Reinforcing	Yes	0.62	0.000	1.25	0.06	0.00	0.070	0.000	5.561	0.00	93.00
36.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.071	0.000	5.652	0.00	4.40
36.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.071	0.000	5.652	0.00	1.04
36.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.071	0.000	5.652	0.00	3.98

Linear Appurtenance Segment Forces (Factored)

Structure: CT02049-S-SBA	Code: TIA-222-H	11/17/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



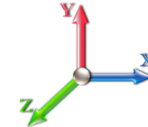
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Load Case: 1.0D + 1.0W 60 mph Wind

Iterations 26

Dead Load Factor 1.00

Wind Load Factor 1.00



Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
36.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.071	0.000	5.652	0.00	4.40
36.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.071	0.000	5.652	0.00	3.82
36.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.071	0.000	5.652	0.00	1.04
36.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.071	0.000	5.652	0.00	300.00
38.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.071	0.000	5.740	0.00	4.40
38.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.071	0.000	5.740	0.00	1.04
38.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.071	0.000	5.740	0.00	3.98
38.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.071	0.000	5.740	0.00	4.40
38.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.071	0.000	5.740	0.00	3.82
38.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.071	0.000	5.740	0.00	1.04
38.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.071	0.000	5.740	0.00	300.00
40.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.072	0.000	5.825	0.00	4.40
40.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.072	0.000	5.825	0.00	1.04
40.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.072	0.000	5.825	0.00	3.98
40.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.072	0.000	5.825	0.00	4.40
40.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.072	0.000	5.825	0.00	3.82
40.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.072	0.000	5.825	0.00	1.04
40.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.072	0.000	5.825	0.00	300.00
42.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.073	0.000	5.907	0.00	4.40
42.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	5.907	0.00	1.04
42.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	5.907	0.00	3.98
42.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	5.907	0.00	4.40
42.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	5.907	0.00	3.82
42.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	5.907	0.00	1.04
42.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.073	0.000	5.907	0.00	300.00
44.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.073	0.000	5.986	0.00	4.40
44.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	5.986	0.00	1.04
44.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	5.986	0.00	3.98
44.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	5.986	0.00	4.40
44.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	5.986	0.00	3.82
44.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	5.986	0.00	1.04
44.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.073	0.000	5.986	0.00	300.00
45.16	1 5/8" Hybrid	Yes	1.16	0.000	2.00	0.19	0.00	0.074	0.000	6.030	0.00	2.55
45.16	7/8" Coax	Yes	1.16	0.000	0.00	0.00	0.00	0.074	0.000	6.030	0.00	0.60
45.16	1.75" Hybrid	Yes	1.16	0.000	0.00	0.00	0.00	0.074	0.000	6.030	0.00	2.31
45.16	1 5/8" Fiber	Yes	1.16	0.000	0.00	0.00	0.00	0.074	0.000	6.030	0.00	2.55
45.16	1-1/4" Fiber	Yes	1.16	0.000	0.00	0.00	0.00	0.074	0.000	6.030	0.00	2.21
45.16	7/8" Coax	Yes	1.16	0.000	0.00	0.00	0.00	0.074	0.000	6.030	0.00	0.60
45.16	1.25" Reinforcing	Yes	1.16	0.000	1.25	0.12	0.00	0.074	0.000	6.030	0.00	174.00
46.00	1 5/8" Hybrid	Yes	0.84	0.000	2.00	0.14	0.00	0.074	0.000	6.062	0.00	1.85
46.00	7/8" Coax	Yes	0.84	0.000	0.00	0.00	0.00	0.074	0.000	6.062	0.00	0.44
46.00	1.75" Hybrid	Yes	0.84	0.000	0.00	0.00	0.00	0.074	0.000	6.062	0.00	1.67
46.00	1 5/8" Fiber	Yes	0.84	0.000	0.00	0.00	0.00	0.074	0.000	6.062	0.00	1.85
46.00	1-1/4" Fiber	Yes	0.84	0.000	0.00	0.00	0.00	0.074	0.000	6.062	0.00	1.60
46.00	7/8" Coax	Yes	0.84	0.000	0.00	0.00	0.00	0.074	0.000	6.062	0.00	0.44
46.00	1.25" Reinforcing	Yes	0.84	0.000	1.25	0.09	0.00	0.074	0.000	6.062	0.00	126.00
48.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.075	0.000	6.136	0.00	4.40

Linear Appurtenance Segment Forces (Factored)

Structure: CT02049-S-SBA	Code: TIA-222-H	11/17/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II

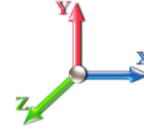


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Load Case: 1.0D + 1.0W 60 mph Wind

Iterations 26

Dead Load Factor 1.00
Wind Load Factor 1.00



Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
48.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	6.136	0.00	1.04
48.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	6.136	0.00	3.98
48.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	6.136	0.00	4.40
48.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	6.136	0.00	3.82
48.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	6.136	0.00	1.04
48.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.075	0.000	6.136	0.00	300.00
50.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.075	0.000	6.208	0.00	4.40
50.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	6.208	0.00	1.04
50.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	6.208	0.00	3.98
50.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	6.208	0.00	4.40
50.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	6.208	0.00	3.82
50.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	6.208	0.00	1.04
50.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.075	0.000	6.208	0.00	300.00
52.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.076	0.000	6.278	0.00	4.40
52.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.076	0.000	6.278	0.00	1.04
52.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.076	0.000	6.278	0.00	3.98
52.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.076	0.000	6.278	0.00	4.40
52.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.076	0.000	6.278	0.00	3.82
52.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.076	0.000	6.278	0.00	1.04
52.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.076	0.000	6.278	0.00	300.00
54.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.077	0.000	6.346	0.00	4.40
54.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	6.346	0.00	1.04
54.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	6.346	0.00	3.98
54.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	6.346	0.00	4.40
54.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	6.346	0.00	3.82
54.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	6.346	0.00	1.04
54.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.077	0.000	6.346	0.00	300.00
56.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.078	0.000	6.413	0.00	4.40
56.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	6.413	0.00	1.04
56.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	6.413	0.00	3.98
56.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	6.413	0.00	4.40
56.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	6.413	0.00	3.82
56.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	6.413	0.00	1.04
56.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.078	0.000	6.413	0.00	300.00
58.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.077	0.000	6.477	0.00	4.40
58.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	6.477	0.00	1.04
58.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	6.477	0.00	3.98
58.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	6.477	0.00	4.40
58.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	6.477	0.00	3.82
58.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	6.477	0.00	1.04
58.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.077	0.000	6.477	0.00	300.00
60.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.078	0.000	6.540	0.00	4.40
60.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	6.540	0.00	1.04
60.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	6.540	0.00	3.98
60.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	6.540	0.00	4.40
60.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	6.540	0.00	3.82
60.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	6.540	0.00	1.04

Linear Appurtenance Segment Forces (Factored)

Structure: CT02049-S-SBA	Code: TIA-222-H	11/17/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II

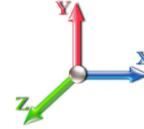


Load Case: 1.0D + 1.0W 60 mph Wind

Iterations 26

Dead Load Factor 1.00

Wind Load Factor 1.00



Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
60.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.078	0.000	6.540	0.00	300.00
62.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.078	0.000	6.602	0.00	4.40
62.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	6.602	0.00	1.04
62.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	6.602	0.00	3.98
62.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	6.602	0.00	4.40
62.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	6.602	0.00	3.82
62.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	6.602	0.00	1.04
62.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.078	0.000	6.602	0.00	300.00
64.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.079	0.000	6.662	0.00	4.40
64.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.079	0.000	6.662	0.00	1.04
64.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.079	0.000	6.662	0.00	3.98
64.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.079	0.000	6.662	0.00	4.40
64.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.079	0.000	6.662	0.00	3.82
64.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.079	0.000	6.662	0.00	1.04
64.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.079	0.000	6.662	0.00	300.00
66.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.080	0.000	6.721	0.00	4.40
66.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.080	0.000	6.721	0.00	1.04
66.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.080	0.000	6.721	0.00	3.98
66.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.080	0.000	6.721	0.00	4.40
66.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.080	0.000	6.721	0.00	3.82
66.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.080	0.000	6.721	0.00	1.04
66.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.080	0.000	6.721	0.00	300.00
68.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.081	0.000	6.779	0.00	4.40
68.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.081	0.000	6.779	0.00	1.04
68.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.081	0.000	6.779	0.00	3.98
68.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.081	0.000	6.779	0.00	4.40
68.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.081	0.000	6.779	0.00	3.82
68.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.081	0.000	6.779	0.00	1.04
68.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.081	0.000	6.779	0.00	300.00
70.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.082	0.000	6.835	0.00	4.40
70.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.082	0.000	6.835	0.00	1.04
70.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.082	0.000	6.835	0.00	3.98
70.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.082	0.000	6.835	0.00	4.40
70.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.082	0.000	6.835	0.00	3.82
70.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.082	0.000	6.835	0.00	1.04
70.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.082	0.000	6.835	0.00	300.00
72.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.082	0.000	6.890	0.00	4.40
72.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.082	0.000	6.890	0.00	1.04
72.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.082	0.000	6.890	0.00	3.98
72.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.082	0.000	6.890	0.00	4.40
72.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.082	0.000	6.890	0.00	3.82
72.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.082	0.000	6.890	0.00	1.04
72.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.082	0.000	6.890	0.00	300.00
74.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.083	0.000	6.944	0.00	4.40
74.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.083	0.000	6.944	0.00	1.04
74.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.083	0.000	6.944	0.00	3.98
74.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.083	0.000	6.944	0.00	4.40

Linear Appurtenance Segment Forces (Factored)

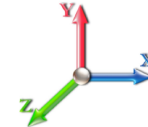
Structure: CT02049-S-SBA	Code: TIA-222-H	11/17/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00
Wind Load Factor 1.00



Iterations 26

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
74.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.083	0.000	6.944	0.00	3.82
74.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.083	0.000	6.944	0.00	1.04
74.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.083	0.000	6.944	0.00	300.00
76.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.084	0.000	6.997	0.00	4.40
76.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.084	0.000	6.997	0.00	1.04
76.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.084	0.000	6.997	0.00	3.98
76.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.084	0.000	6.997	0.00	4.40
76.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.084	0.000	6.997	0.00	3.82
76.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.084	0.000	6.997	0.00	1.04
76.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.084	0.000	6.997	0.00	300.00
78.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.085	0.000	7.050	0.00	4.40
78.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.085	0.000	7.050	0.00	1.04
78.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.085	0.000	7.050	0.00	3.98
78.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.085	0.000	7.050	0.00	4.40
78.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.085	0.000	7.050	0.00	3.82
78.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.085	0.000	7.050	0.00	1.04
78.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.085	0.000	7.050	0.00	300.00
80.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.086	0.000	7.101	0.00	4.40
80.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.086	0.000	7.101	0.00	1.04
80.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.086	0.000	7.101	0.00	3.98
80.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.086	0.000	7.101	0.00	4.40
80.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.086	0.000	7.101	0.00	3.82
80.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.086	0.000	7.101	0.00	1.04
80.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.086	0.000	7.101	0.00	300.00
82.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.087	0.000	7.151	0.00	4.40
82.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.087	0.000	7.151	0.00	1.04
82.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.087	0.000	7.151	0.00	3.98
82.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.087	0.000	7.151	0.00	4.40
82.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.087	0.000	7.151	0.00	3.82
82.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.087	0.000	7.151	0.00	1.04
82.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.087	0.000	7.151	0.00	300.00
84.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.088	0.000	7.200	0.00	4.40
84.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.088	0.000	7.200	0.00	1.04
84.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.088	0.000	7.200	0.00	3.98
84.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.088	0.000	7.200	0.00	4.40
84.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.088	0.000	7.200	0.00	3.82
84.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.088	0.000	7.200	0.00	1.04
84.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.088	0.000	7.200	0.00	300.00
86.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.089	0.000	7.249	0.00	4.40
86.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.089	0.000	7.249	0.00	1.04
86.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.089	0.000	7.249	0.00	3.98
86.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.089	0.000	7.249	0.00	4.40
86.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.089	0.000	7.249	0.00	3.82
86.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.089	0.000	7.249	0.00	1.04
86.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.089	0.000	7.249	0.00	300.00
88.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.090	0.000	7.297	0.00	4.40
88.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.090	0.000	7.297	0.00	1.04

Linear Appurtenance Segment Forces (Factored)

Structure: CT02049-S-SBA	Code: TIA-222-H	11/17/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II

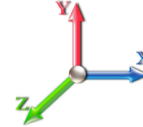


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Load Case: 1.0D + 1.0W 60 mph Wind

Iterations 26

Dead Load Factor 1.00
Wind Load Factor 1.00



Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
88.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.090	0.000	7.297	0.00	3.98
88.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.090	0.000	7.297	0.00	4.40
88.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.090	0.000	7.297	0.00	3.82
88.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.090	0.000	7.297	0.00	1.04
88.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.090	0.000	7.297	0.00	300.00
90.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.091	0.000	7.344	0.00	4.40
90.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.091	0.000	7.344	0.00	1.04
90.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.091	0.000	7.344	0.00	3.98
90.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.091	0.000	7.344	0.00	4.40
90.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.091	0.000	7.344	0.00	3.82
90.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.091	0.000	7.344	0.00	1.04
90.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.091	0.000	7.344	0.00	300.00
92.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.092	0.000	7.390	0.00	4.40
92.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.092	0.000	7.390	0.00	1.04
92.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.092	0.000	7.390	0.00	3.98
92.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.092	0.000	7.390	0.00	4.40
92.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.092	0.000	7.390	0.00	3.82
92.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.092	0.000	7.390	0.00	1.04
92.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.092	0.000	7.390	0.00	300.00
94.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.093	0.000	7.436	0.00	4.40
94.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.093	0.000	7.436	0.00	1.04
94.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.093	0.000	7.436	0.00	3.98
94.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.093	0.000	7.436	0.00	4.40
94.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.093	0.000	7.436	0.00	3.82
94.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.093	0.000	7.436	0.00	1.04
94.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.093	0.000	7.436	0.00	300.00
95.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.17	0.00	0.094	0.000	7.458	0.00	2.20
95.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.094	0.000	7.458	0.00	0.52
95.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.094	0.000	7.458	0.00	1.99
95.00	1 5/8" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.094	0.000	7.458	0.00	2.20
95.00	1-1/4" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.094	0.000	7.458	0.00	1.91
95.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.094	0.000	7.458	0.00	0.52
95.00	1.25" Reinforcing	Yes	1.00	0.000	1.25	0.10	0.00	0.094	0.000	7.458	0.00	150.00
95.58	1 5/8" Hybrid	Yes	0.58	0.000	2.00	0.10	0.00	0.094	0.000	7.471	0.00	1.28
95.58	7/8" Coax	Yes	0.58	0.000	0.00	0.00	0.00	0.094	0.000	7.471	0.00	0.30
95.58	1.75" Hybrid	Yes	0.58	0.000	0.00	0.00	0.00	0.094	0.000	7.471	0.00	1.15
95.58	1 5/8" Fiber	Yes	0.58	0.000	0.00	0.00	0.00	0.094	0.000	7.471	0.00	1.28
95.58	1-1/4" Fiber	Yes	0.58	0.000	0.00	0.00	0.00	0.094	0.000	7.471	0.00	1.11
95.58	7/8" Coax	Yes	0.58	0.000	0.00	0.00	0.00	0.094	0.000	7.471	0.00	0.30
95.58	1.25" Reinforcing	Yes	0.58	0.000	1.25	0.06	0.00	0.094	0.000	7.471	0.00	87.00
96.00	1 5/8" Hybrid	Yes	0.42	0.000	2.00	0.07	0.00	0.094	0.000	7.480	0.00	0.92
96.00	7/8" Coax	Yes	0.42	0.000	0.00	0.00	0.00	0.094	0.000	7.480	0.00	0.22
96.00	1.75" Hybrid	Yes	0.42	0.000	0.00	0.00	0.00	0.094	0.000	7.480	0.00	0.84
96.00	1 5/8" Fiber	Yes	0.42	0.000	0.00	0.00	0.00	0.094	0.000	7.480	0.00	0.92
96.00	1-1/4" Fiber	Yes	0.42	0.000	0.00	0.00	0.00	0.094	0.000	7.480	0.00	0.80
96.00	7/8" Coax	Yes	0.42	0.000	0.00	0.00	0.00	0.094	0.000	7.480	0.00	0.22
96.00	1.25" Reinforcing	Yes	0.42	0.000	1.25	0.04	0.00	0.094	0.000	7.480	0.00	63.00

Linear Appurtenance Segment Forces (Factored)

Structure: CT02049-S-SBA	Code: TIA-222-H	11/17/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



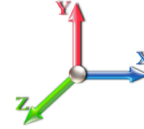
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Load Case: 1.0D + 1.0W 60 mph Wind

Iterations 26

Dead Load Factor 1.00

Wind Load Factor 1.00



Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
98.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.095	0.000	7.525	0.00	4.40
98.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.095	0.000	7.525	0.00	1.04
98.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.095	0.000	7.525	0.00	3.98
98.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.095	0.000	7.525	0.00	4.40
98.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.095	0.000	7.525	0.00	3.82
98.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.095	0.000	7.525	0.00	1.04
98.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.095	0.000	7.525	0.00	300.00
100.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.059	0.000	7.568	0.00	4.40
100.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	7.568	0.00	1.04
100.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	7.568	0.00	3.98
100.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	7.568	0.00	4.40
100.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	7.568	0.00	3.82
100.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	7.568	0.00	1.04
102.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.059	0.000	7.611	0.00	4.40
102.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	7.611	0.00	1.04
102.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	7.611	0.00	3.98
102.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	7.611	0.00	4.40
102.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	7.611	0.00	3.82
102.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	7.611	0.00	1.04
104.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.059	0.000	7.653	0.00	4.40
104.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	7.653	0.00	1.04
104.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	7.653	0.00	3.98
104.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	7.653	0.00	4.40
104.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	7.653	0.00	3.82
104.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	7.653	0.00	1.04
106.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.060	0.000	7.695	0.00	4.40
106.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.060	0.000	7.695	0.00	1.04
106.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.060	0.000	7.695	0.00	3.98
106.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.060	0.000	7.695	0.00	4.40
106.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.060	0.000	7.695	0.00	3.82
106.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.060	0.000	7.695	0.00	1.04
108.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.061	0.000	7.736	0.00	4.40
108.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.061	0.000	7.736	0.00	1.04
108.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.061	0.000	7.736	0.00	3.98
108.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.061	0.000	7.736	0.00	4.40
108.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.061	0.000	7.736	0.00	3.82
108.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.061	0.000	7.736	0.00	1.04
110.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.062	0.000	7.777	0.00	4.40
110.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.062	0.000	7.777	0.00	1.04
110.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.062	0.000	7.777	0.00	3.98
110.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.062	0.000	7.777	0.00	4.40
110.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.062	0.000	7.777	0.00	3.82
110.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.062	0.000	7.777	0.00	1.04
112.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.062	0.000	7.817	0.00	4.40
112.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.062	0.000	7.817	0.00	1.04
112.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.062	0.000	7.817	0.00	3.98
112.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.062	0.000	7.817	0.00	4.40

Linear Appurtenance Segment Forces (Factored)

Structure: CT02049-S-SBA	Code: TIA-222-H	11/17/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II

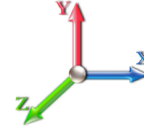


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Load Case: 1.0D + 1.0W 60 mph Wind

Iterations 26

Dead Load Factor 1.00
Wind Load Factor 1.00



Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
112.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.062	0.000	7.817	0.00	3.82
114.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.063	0.000	7.857	0.00	4.40
114.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.063	0.000	7.857	0.00	1.04
114.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.063	0.000	7.857	0.00	3.98
114.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.063	0.000	7.857	0.00	4.40
114.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.063	0.000	7.857	0.00	3.82
115.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.17	0.00	0.064	0.000	7.876	0.00	2.20
115.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.064	0.000	7.876	0.00	0.52
115.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.064	0.000	7.876	0.00	1.99
115.00	1 5/8" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.064	0.000	7.876	0.00	2.20
115.00	1-1/4" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.064	0.000	7.876	0.00	1.91
116.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.17	0.00	0.064	0.000	7.896	0.00	2.20
116.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.064	0.000	7.896	0.00	0.52
116.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.064	0.000	7.896	0.00	1.99
116.00	1 5/8" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.064	0.000	7.896	0.00	2.20
116.00	1-1/4" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.064	0.000	7.896	0.00	1.91
118.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.065	0.000	7.935	0.00	4.40
118.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.065	0.000	7.935	0.00	1.04
118.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.065	0.000	7.935	0.00	3.98
118.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.065	0.000	7.935	0.00	4.40
118.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.065	0.000	7.935	0.00	3.82
120.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.066	0.000	7.973	0.00	4.40
120.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.066	0.000	7.973	0.00	1.04
120.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.066	0.000	7.973	0.00	3.98
120.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.066	0.000	7.973	0.00	4.40
120.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.066	0.000	7.973	0.00	3.82
122.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.067	0.000	8.011	0.00	4.40
122.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.067	0.000	8.011	0.00	1.04
122.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.067	0.000	8.011	0.00	3.98
122.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.067	0.000	8.011	0.00	4.40
122.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.067	0.000	8.011	0.00	3.82
124.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.067	0.000	8.048	0.00	4.40
124.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.067	0.000	8.048	0.00	1.04
124.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.067	0.000	8.048	0.00	3.98
124.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.067	0.000	8.048	0.00	4.40
124.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.067	0.000	8.048	0.00	3.82
126.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.068	0.000	8.085	0.00	4.40
126.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.068	0.000	8.085	0.00	1.04
126.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.068	0.000	8.085	0.00	3.98
126.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.068	0.000	8.085	0.00	4.40
126.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.068	0.000	8.085	0.00	3.82
128.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.069	0.000	8.121	0.00	4.40
128.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.069	0.000	8.121	0.00	1.04
128.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.069	0.000	8.121	0.00	3.98
128.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.069	0.000	8.121	0.00	4.40
128.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.069	0.000	8.121	0.00	3.82
130.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.070	0.000	8.157	0.00	4.40

Linear Appurtenance Segment Forces (Factored)

Structure: CT02049-S-SBA	Code: TIA-222-H	11/17/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Load Case: 1.0D + 1.0W 60 mph Wind

Iterations 26

Dead Load Factor 1.00

Wind Load Factor 1.00



Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
130.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.070	0.000	8.157	0.00	1.04
130.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.070	0.000	8.157	0.00	3.98
130.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.070	0.000	8.157	0.00	4.40
130.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.070	0.000	8.157	0.00	3.82
131.75	1 5/8" Hybrid	Yes	1.75	0.000	2.00	0.29	0.00	0.071	0.000	8.189	0.00	3.85
131.75	7/8" Coax	Yes	1.75	0.000	0.00	0.00	0.00	0.071	0.000	8.189	0.00	0.91
131.75	1.75" Hybrid	Yes	1.75	0.000	0.00	0.00	0.00	0.071	0.000	8.189	0.00	3.48
131.75	1 5/8" Fiber	Yes	1.75	0.000	0.00	0.00	0.00	0.071	0.000	8.189	0.00	3.85
131.75	1-1/4" Fiber	Yes	1.75	0.000	0.00	0.00	0.00	0.071	0.000	8.189	0.00	3.34
132.00	1 5/8" Hybrid	Yes	0.25	0.000	2.00	0.04	0.00	0.072	0.000	8.193	0.00	0.55
132.00	7/8" Coax	Yes	0.25	0.000	0.00	0.00	0.00	0.072	0.000	8.193	0.00	0.13
132.00	1.75" Hybrid	Yes	0.25	0.000	0.00	0.00	0.00	0.072	0.000	8.193	0.00	0.50
132.00	1 5/8" Fiber	Yes	0.25	0.000	0.00	0.00	0.00	0.072	0.000	8.193	0.00	0.55
132.00	1-1/4" Fiber	Yes	0.25	0.000	0.00	0.00	0.00	0.072	0.000	8.193	0.00	0.48
133.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.17	0.00	0.072	0.000	8.211	0.00	2.20
133.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.072	0.000	8.211	0.00	0.52
133.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.072	0.000	8.211	0.00	1.99
133.00	1 5/8" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.072	0.000	8.211	0.00	2.20
133.00	1-1/4" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.072	0.000	8.211	0.00	1.91
134.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.17	0.00	0.073	0.000	8.228	0.00	2.20
134.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.073	0.000	8.228	0.00	0.52
134.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.073	0.000	8.228	0.00	1.99
134.00	1 5/8" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.073	0.000	8.228	0.00	2.20
134.00	1-1/4" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.073	0.000	8.228	0.00	1.91
134.75	1 5/8" Hybrid	Yes	0.75	0.000	2.00	0.13	0.00	0.073	0.000	8.241	0.00	1.65
134.75	7/8" Coax	Yes	0.75	0.000	0.00	0.00	0.00	0.073	0.000	8.241	0.00	0.39
134.75	1.75" Hybrid	Yes	0.75	0.000	0.00	0.00	0.00	0.073	0.000	8.241	0.00	1.49
134.75	1 5/8" Fiber	Yes	0.75	0.000	0.00	0.00	0.00	0.073	0.000	8.241	0.00	1.65
134.75	1-1/4" Fiber	Yes	0.75	0.000	0.00	0.00	0.00	0.073	0.000	8.241	0.00	1.43
136.00	1 5/8" Hybrid	Yes	1.25	0.000	2.00	0.21	0.00	0.074	0.000	8.263	0.00	2.75
136.00	7/8" Coax	Yes	1.25	0.000	0.00	0.00	0.00	0.074	0.000	8.263	0.00	0.65
136.00	1.75" Hybrid	Yes	1.25	0.000	0.00	0.00	0.00	0.074	0.000	8.263	0.00	2.49
136.00	1 5/8" Fiber	Yes	1.25	0.000	0.00	0.00	0.00	0.074	0.000	8.263	0.00	2.75
136.00	1-1/4" Fiber	Yes	1.25	0.000	0.00	0.00	0.00	0.074	0.000	8.263	0.00	2.38
138.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.075	0.000	8.298	0.00	4.40
138.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	8.298	0.00	1.04
138.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	8.298	0.00	3.98
138.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	8.298	0.00	4.40
138.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	8.298	0.00	3.82
140.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.076	0.000	8.332	0.00	4.40
140.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.076	0.000	8.332	0.00	1.04
140.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.076	0.000	8.332	0.00	3.98
140.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.076	0.000	8.332	0.00	4.40
140.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.076	0.000	8.332	0.00	3.82
142.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.077	0.000	8.366	0.00	4.40
142.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	8.366	0.00	1.04
142.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	8.366	0.00	3.98

Linear Appurtenance Segment Forces (Factored)

Structure: CT02049-S-SBA	Code: TIA-222-H	11/17/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00
Wind Load Factor 1.00



Iterations 26

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
142.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	8.366	0.00	4.40
142.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	8.366	0.00	3.82
144.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.078	0.000	8.399	0.00	4.40
144.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	8.399	0.00	1.04
144.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	8.399	0.00	3.98
145.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.17	0.00	0.079	0.000	8.416	0.00	2.20
145.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.079	0.000	8.416	0.00	0.52
145.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.079	0.000	8.416	0.00	1.99
146.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.17	0.00	0.082	0.000	8.432	0.00	2.20
146.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.082	0.000	8.432	0.00	0.52
146.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.082	0.000	8.432	0.00	1.99
148.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.083	0.000	8.465	0.00	4.40
148.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.083	0.000	8.465	0.00	1.04
148.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.083	0.000	8.465	0.00	3.98
150.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.085	0.000	8.498	0.00	4.40
150.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.085	0.000	8.498	0.00	1.04
150.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.085	0.000	8.498	0.00	3.98
152.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.125	1.075	8.530	0.00	4.40
152.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.125	1.075	8.530	0.00	1.04
152.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.125	1.075	8.530	0.00	3.98
154.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.125	1.075	8.562	0.00	4.40
154.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.125	1.075	8.562	0.00	1.04
156.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.125	1.075	8.593	0.00	4.40
156.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.125	1.075	8.593	0.00	1.04
158.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.125	1.075	8.625	0.00	4.40
158.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.125	1.075	8.625	0.00	1.04
160.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.125	1.075	8.656	0.00	4.40
160.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.125	1.075	8.656	0.00	1.04
Totals:											0.0	21,478.4

Final Analysis Summary

Structure: CT02049-S-SBA	Code: TIA-222-H	11/17/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Reactions

Load Case	Shear FX (kips)	Shear FZ (kips)	Axial FY (kips)	Moment MX (ft-kips)	Moment MY (ft-kips)	Moment MZ (ft-kips)
1.2D + 1.0W 120 mph Wind	33.7	0.00	78.46	0.00	0.00	4032.53
0.9D + 1.0W 120 mph Wind	33.7	0.00	58.84	0.00	0.00	3974.61
1.2D + 1.0Di + 1.0Wi 50 mph Wind	7.8	0.00	100.57	0.00	0.00	969.10
1.2D + 1.0Ev + 1.0Eh	0.5	0.00	81.48	0.00	0.00	77.26
0.9D + 1.0Ev + 1.0Eh	0.5	0.00	61.51	0.00	0.00	76.99
1.0D + 1.0W 60 mph Wind	7.5	0.00	65.39	0.00	0.00	894.63

Max Stresses

Load Case	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Elev (ft)	Stress Ratio
1.2D + 1.0W 120 mph Wind	-25.36	-25.24	0.00	-1162.2	0.00	-1162.2	2265.81	581.68	1596.65	1519.16	96.00	0.778
0.9D + 1.0W 120 mph Wind	-18.66	-24.76	0.00	-1137.0	0.00	-1137.0	2265.81	581.68	1596.65	1519.16	96.00	0.759
1.2D + 1.0Di + 1.0Wi 50 mph Wind	-41.15	-6.17	0.00	-285.06	0.00	-285.06	2265.81	581.68	1596.65	1519.16	96.00	0.206
1.2D + 1.0Ev + 1.0Eh	-23.23	-0.53	0.00	-14.79	0.00	-14.79	2132.70	527.63	1313.68	1295.79	115.00	0.031
0.9D + 1.0Ev + 1.0Eh	-17.61	-0.53	0.00	-14.82	0.00	-14.82	2132.70	527.63	1313.68	1295.79	115.00	0.027
1.0D + 1.0W 60 mph Wind	-22.41	-5.59	0.00	-257.19	0.00	-257.19	2265.81	581.68	1596.65	1519.16	96.00	0.179

Additional Steel Summary

Elev From (ft)	Elev To (ft)	Member	Intermediate Connectors			Lower Termination				Upper Termination				Max Member			
			VQ/I (lb/in)	Vu (kips)	phi Vn (kips)	MQ/I (kips)	phi Vn (kips)	Num Reqd	Num Actual	MQ/I (kips)	phi Vn (kips)	Num Reqd	Num Actual	Pu (kips)	phi Pn (kips)	phi Tn (kips)	Ratio
0.0	16.3	(3) PLT-C10x30(1.5" Hole)	-259.6	-5.19	37.1	343.4	37.1	9	0	333.9	37.1			345.26	505.1	468.64	0.737
0.0	1.0	(3) SOL-2 1/4" William R71	129.1	1.55	25.3	184.7	25.3	7	0	184.3	25.3	7	0	184.68	459.1	468.91	0.402
1.0	18.9	(2) LNP-LP6X100-BW-20T	189.6	4.55	25.3	186.7	25.3	8	0	197.3	22.7	9	9	240.47	297.8	288.75	0.833
1.0	18.9	(1) LNP-LP6x100-B2-20T	-181.7	-4.36	25.3	175.9	25.3	7	0	190.4	22.7	8	9	230.50	297.8	288.75	0.798
16.3	31.0	(3) PLT-C10x15.3(1.5" Hole)	-259.6	-5.19	37.1	287.7	37.1			137.9	37.1	4	4	201.80	257.8	247.80	0.814
18.6	33.4	(3) LNP-LP6X100-G-20TT	191.5	4.60	25.3	212.8	22.7	9	10	201.2	22.7	9	10	236.83	297.8	288.75	0.820
30.0	46.0	(3) PLT-6"X1-1/4"(1.25" Hole)	294.8	5.31	37.1	220.6	33.4	7	8	218.5	33.4	7	8	313.96	413.6	351.56	0.893
45.2	58.0	(3) PLT-7" x 1.25"(1.25"Hole)	-344.9	-4.14	37.1	256.0	33.4	8	13	304.9	37.1			329.86	498.6	426.56	0.773
58.0	78.0	(3) PLT-5.5"x1 1/4"(1.25"hol	-336.0	-6.05	37.1	236.9	37.1			229.6	37.1			257.57	379.1	314.06	0.820
78.0	95.6	(3) PLT-5.5"x1 1/4"(1.25"hol	-389.5	-7.01	37.1	229.6	37.1			217.1	33.4	7	10	248.88	379.1	314.06	0.792



Monopole Mat Foundation Design

Date
11/17/2022

Customer Name:	T-Mobile	TIA Standard:	TIA-222-H
Site Name:		Structure Height (Ft.):	160
Site Number:	CT02049-S-SBA	Engineer Name:	H. You
Engr. Number:	136374	Engineer Login ID:	

Foundation Info Obtained from:

Drawings/Calculations
Monopole
Analysis

Structure Type:

Analysis or Design?

Base Reactions (Factored):

Axial Load (Kips):	78.5	Shear Force (Kips):	33.7
Uplift Force (Kips):	0.0	Moment (Kips-ft):	4032.5

Allowable overstress %: 5.0%

Foundation Geometries:

		Mods required -Yes/No ?:	No
Diameter of Pier (ft.):	7.0	Depth of Base BG (ft.):	4.8
Pier Height A. G. (ft.):	0.50	Thickness of Pad (ft):	3.50
Length of Pad (ft.):	28	Width of Pad (ft.):	28

Final Length of pad (ft)	28.0	Final width of pad (ft):	28.0
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Material Properties and Rebar Info:

Concrete Strength (psi):	3000	Steel Elastic Modulus:	29000	ksi
Vertical bar yield (ksi)	60	Tie steel yield (ksi):	60	
Vertical Rebar Size #:	10	Tie / Stirrup Size #:	4	
Qty. of Vertical Rebars:	30	Tie Spacing (in):	6.0	
Pad Rebar Yield (Ksi):	60	Pad Steel Rebar Size (#):	8	
Concrete Cover (in.):	3	Unit Weight of Concrete:	150.0	pcf

Rebar at the bottom of the concrete pad:

Qty. of Rebar in Pad (L):	26	Qty. of Rebar in Pad (W):	26
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Rebar at the top of the concrete pad:

Qty. of Rebar in Pad (L):	26	Qty. of Rebar in Pad (W):	26
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Apply 1.35 factor for e/w Per G: 1.35

Soil Design Parameters:

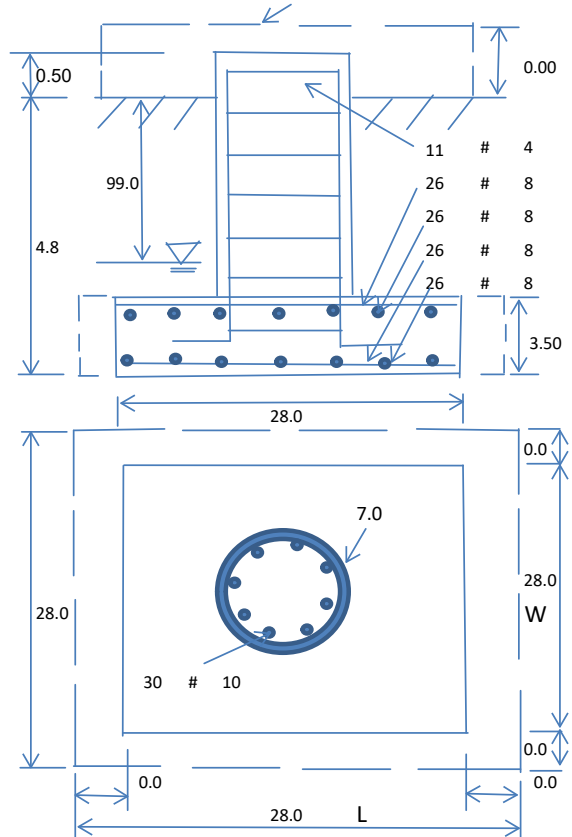
Soil Unit Weight (pcf):	115.0	Soil Buoyant Weight:	50.0	Pcf		
Water Table B.G.S. (ft):	99.0	Unit Weight of Water:	62.4	pcf	Angle from Top of Pad:	30
Ultimate Bearing Pressure (psf):	6000	Ultimate Skin Friction:	0	Psf	Angle from Bottm of Pad:	25
Consider Friction for O.T.M. (Y/N):	No	Consider Friction for bearing (Y/N):	No		Angle from Bottm of Pad:	25
Consider soil hor. resist. for OTM.:	No	Reduction factor on the maximum soil bearing pressure:	1.00			

Foundation Analysis and Design:

Uplift Strength Reduction Factor:	0.75	Compression Strength Reduction Factor:	0.75
Total Dry Soil Volume (cu. Ft.):	969.17	Total Dry Soil Weight (Kips):	111.45
Total Buoyant Soil Volume (cu. Ft.):	0.00	Total Buoyant Soil Weight (Kips):	0.00
Total Effective Soil Weight (Kips):	111.45	Weight from the Concrete Block at Top (K):	0.00
Total Dry Concrete Volume (cu. Ft.):	2813.27	Total Dry Concrete Weight (Kips):	421.99
Total Buoyant Concrete Volume (cu. Ft.):	0.00	Total Buoyant Concrete Weight (Kips):	0.00
Total Effective Concrete Weight (Kips):	421.99	Total Vertical Load on Base (Kips):	611.91

Check Soil Capacities:

Calculated Maxium Net Soil Pressure under the base (psf):	2140	<	Allowable Factored Soil Bearing (psf):	4500	0.48	OK!
Allowable Foundation Overturning Resistance (kips-ft.):	7819.9	>	Design Factored Momont (kips-ft):	4211	0.54	OK!
Factor of Safety Against Overturning (O. R. Moment/Design Moment):	1.86					OK!



Check the capacities of Reinforcing Concrete:

Strength reduction factor (Flexure and axial tension):	0.90	Strength reduction factor (Shear):	0.75		
Strength reduction factor (Axial compression):	0.65	Wind Load Factor on Concrete Design:	1.00		
				Load/ Capacity Ratio	

(1) Concrete Pier:

Vertical Steel Rebar Area (sq. in./each):	1.27	Tie / Stirrup Area (sq. in./each):	0.20		
Calculated Moment Capacity (Mn,Kips-Ft):	6154.8	> Design Factored Moment (Mu, Kips-F	4093.1	0.67	OK!
Calculated Shear Capacity (Kips):	724.1	> Design Factored Shear (Kips):	33.7	0.05	OK!
Calculated Tension Capacity (Tn, Kips):	2057.4	> Design Factored Tension (Tu Kips):	0.0	0.00	OK!
Calculated Compression Capacity (Pn, Kips):	7297.9	> Design Factored Axial Load (Pu Kips):	78.5	0.01	OK!
Moment & Axial Strength Combination:	0.67	OK! Check Tie Spacing (Design/Required):		0.5	OK!
Pier Reinforcement Ratio:	0.007	Reinforcement Ratio is satisfied per ACI			

(2).Concrete Pad:

One-Way Design Shear Capacity (L-Direction, Kips):	1062.8	> One-Way Factored Shear (L-D. Kips):	253.7	0.24	OK!
One-Way Design Shear Capacity (W-Direction, Kips):	1062.8	> One-Way Factored Shear (W-D., Kips)	253.7	0.24	OK!
One-Way Design Shear Capacity (Corner-Corner, Kips):	993.8	> One-Way Factored Shear (C-C, Kips):	241.8	0.24	OK!
Lower Steel Pad Reinforcement Ratio (L-Direct.):	0.0016	OK! Lower Steel Pad Reinf. Ratio (W-Direc	0.0016		
Lower Steel Pad Moment Capacity (L-Direction, Kips-ft):	3492.1	> Moment at Bottom (L-Dir. K-Ft):	1644.2	0.47	OK!
Lower Steel Pad Moment Capacity (W-Direction, Kips-ft):	3492.1	> Moment at Bottom (W-Dir. K-Ft):	1644.2	0.47	OK!
Lower Steel Pad Moment Capacity (Corner-Corner, K-ft):	4918.4	> Moment at Bottom (C-C Dir. K-Ft):	2325.3	0.47	OK!
Upper Steel Pad Reinforcement Ratio (L-Direct.):	0.0016	OK! Upper Steel Reinf. Ratio (W-Dir.):	0.0016		
Upper Steel Pad Moment Capacity (L-Direc. Kips-ft):	3492.1	> Moment at the top (L-Dir K-Ft):	672.8	0.19	OK!
Upper Steel Pad Moment Capacity (W-Direc. Kips-ft):	3492.1	> Moment at the top (W-Dir K-Ft):	672.8	0.19	OK!
Upper Steel Pad Moment Capacity (Corner-Corner, K-ft):	4918.4	> Moment at the top (C-C Dir. K-Ft):	629.1	0.13	OK!

(3).Check Punching Shear Capacity due to Moment in the Pier:

Moment transferred by punching shear:	1613.0	k-ft.	Max. factored shear stress $v_{u,CD}$:	2.6	Psi
Max. factored shear stress $v_{u,AB}$:	10.7	Psi	Factored shear Strength ϕv_n :	164.3	Psi
Max. factored shear stress v_u :	10.7	Psi	Check Usage of Punching Shear Capacity:	0.06	OK!

(4).Check Bending Capacity of the Pad Within the Effective Slab Width:

Overturning moment to be transferred by flexure:	1209.8	k-ft.	Effective Width for resisting OT moment:	17.5	ft.
Calculated number of Rebar in Effective width:	17		Actual number of Rebar in Effective width:	17	
Steel Pad Moment Capacity (L-Direc. Kips-ft):	2281.3	k-ft.	Check Usage of the Flexure Capacity:	0.53	OK!