



Northeast Site Solutions
Denise Sabo
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April 6, 2018

Members of the Siting Council
Connecticut Siting Council
Ten Franklin Square
New Britain, CT 06051

RE: Exempt Modification Application
398 Pomfret Street, Pomfret CT 06258
Latitude: 41.890094
Longitude: -71.95508
T-Mobile Site#: CT11525A-MWAAV

Dear Ms. Bachman:

T-Mobile is requesting to file an exempt modification for an existing 168-foot monopole tower located at 398 Pomfret Street, Pomfret CT 06258. T-Mobile currently has approval for six (6) antennas at the 147-foot level of the existing 168-foot tower. The property is owned by Pomfret School Inc and tower is owned by SBA Communications. T-Mobile now intends to install one (1) IBR1300 Dish. The new dish would be installed at the 147-foot and level of the tower.

Planned Modifications:

Remove:
NONE

Remove and Replace:
NONE

Install New:
(1)IBR1300 Dish
(1)Fiber line
(2)CAT6 Cables

Existing to Remain:
(12) 1-5/8" Coax
(6) TMA
(3) Smart Bias T's
(3) LNX6515 Antenna – 700 Mhz
(3) APX18 Antenna – 1900 Mhz

This facility was approved by the Connecticut Siting Council. Docket No. TS-T-MOBILE112-031114B – Approved for Tower sharing (147-ft RAD center). Please see attached.

Please accept this letter as notification pursuant to Regulations of Connecticut State Agencies § 16- SOj-73, for construction that constitutes an exempt modification pursuant to R.C.S.A. § 16-50j-72(b)(2). In accordance with R.C.S.A. § 16-SOj-73, a copy of this letter is being sent to First Selectman Maureen A. Nicholson, Elected Official and Ryan Brais, Planning Director for the Town of Pomfret, as well as the property owner and the tower owner (SBA Communications).

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

1. The proposed modifications will not result in an increase in the height of the existing structure.
2. The proposed modifications will not require the extension of the site boundary.
3. The proposed modifications will not increase noise levels at the facility by six decibels or more, or to levels that exceed state and local criteria.
4. The operation of the replacement antennas will not increase radio frequency emissions at the facility to a level at or above the Federal Communications Commission safety standard.
5. The proposed modifications will not cause a change or alteration in the physical or environmental characteristics of the site.
6. The existing structure and its foundation can support the proposed loading.

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

Sincerely,

Denise Sabo
Mobile: 860-209-4690
Fax: 413-521-0558
Office: 199 Brickyard Rd, Farmington, CT 06032
Email: denise@northeastsitesolutions.com

Attachments

cc: Maureen A. Nicholson, First Selectman- as elected official
Ryan Brais, Zoning Enforcement Officer
Pomfret School - as property owner
SBA Communications- as tower owner

Exhibit A



December 10, 2003

STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051

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

E-Mail: siting.council@po.state.ct.us

Web Site: www.ct.gov/csc

Jackie Slaga, Esq.
Project Manager
T-Mobile
100 Filley Street
Bloomfield, CT 06002

RE: **TS-T-MOBILE-112-031114B** – Omnipoint Communications, Inc. request for an order to approve tower sharing at an existing telecommunications facility, located at 398 Pomfret Street, Pomfret, Connecticut.

Dear Ms. Slaga:

At a public meeting held December 9, 2003, the Connecticut Siting Council (Council) ruled that the shared use of this existing tower site is technically, legally, environmentally, and economically feasible and meets public safety concerns, and therefore, in compliance with General Statutes § 16-50aa, the Council has ordered the shared use of this facility to avoid the unnecessary proliferation of tower structures. This facility has also been carefully modeled to ensure that radio frequency emissions are conservatively below State and federal standards applicable to the frequencies now used on this tower.

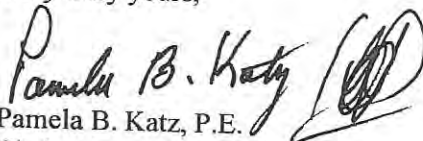
This decision is under the exclusive jurisdiction of the Council. Any additional change to this facility may require an explicit request to this agency pursuant to General Statutes § 16-50aa or notice pursuant to Regulations of Connecticut State Agencies Section 16-50j-73, as applicable. Such request or notice shall include all relevant information regarding the proposed change with cumulative worst-case modeling of radio frequency exposure at the closest point of uncontrolled access to the tower base, consistent with Federal Communications Commission, Office of Engineering and Technology, Bulletin 65. Any deviation from this format may result in the Council implementing enforcement proceedings pursuant to General Statutes § 16-50u including, without limitation, imposition of expenses resulting from such failure and of civil penalties in an amount not less than one thousand dollars per day for each day of construction or operation in material violation.

This decision applies only to this request for tower sharing and is not applicable to any other request or construction.

The proposed shared use is to be implemented as specified in your letter dated November 14, 2003.

Thank you for your attention and cooperation.

Very truly yours,


Pamela B. Katz, P.E.

Chairman

PBK/laf

- c: Honorable David I. Patenaude, First Selectman, Town of Pomfret
Walter P. Hinchman, Planning and Zoning Chairman, Town of Pomfret
Sheila R. Becker, Regional Director of Compliance, SBA, Inc.
Thomas J. Regan, Esq., Brown Rudnick Berlack Israels
Sandy M. Carter, Verizon Wireless

Exhibit B

398 POMFRET ST

Location 398 POMFRET ST

Mblu 14/ A/ 008.00/ /

Acct# P0185900

Owner POMFRET SCHOOL INC

Assessment \$23,746,200

Appraisal \$33,922,600

PID 584

Building Count 22

Current Value

Appraisal			
Valuation Year	Improvements	Land	Total
2015	\$32,631,100	\$1,291,500	\$33,922,600
Assessment			
Valuation Year	Improvements	Land	Total
2015	\$22,842,100	\$904,100	\$23,746,200

Owner of Record

Owner POMFRET SCHOOL INC

Sale Price \$0

Co-Owner

Certificate

Book & Page 0030/0047

Sale Date 11/21/1928

Ownership History

Ownership History				
Owner	Sale Price	Certificate	Book & Page	Sale Date
POMFRET SCHOOL INC	\$0		0030/0047	11/21/1928

Building Information

Building 1 : Section 1

Year Built: 1870

Living Area: 7,591

Replacement Cost

Less Depreciation: \$564,900

Building Photo

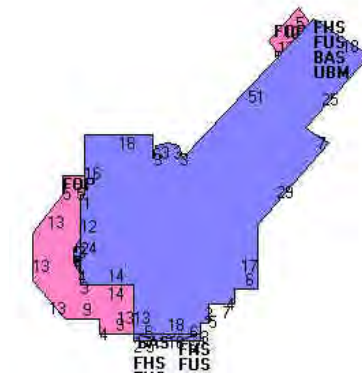
Building Attributes	
Field	Description
STYLE	Office Bldg
MODEL	Comm/Ind
Stories:	2.5
Occupancy	6
Exterior Wall 1	Clapboard

Exterior Wall 2	
Roof Structure	Gable/Hip
Roof Cover	Asph/F Gls/Cmp
Interior Wall 1	Plastered
Interior Wall 2	
Interior Floor 1	Hardwood
Interior Floor 2	Carpet
Heating Fuel	Oil
Heating Type	Steam
AC Type	None
Bldg Use	PVT SCHOOL MDL-94
Total Rooms	
Total Bedrms	00
Total Baths	0
1st Floor Use:	904C
Heat/AC	NONE
Frame Type	WOOD FRAME
Baths/Plumbing	AVERAGE
Ceiling/Wall	CEIL & WALLS
Rooms/Prtns	AVERAGE
Wall Height	9
% Comn Wall	0



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Building Layout



(<http://images.vgsi.com/photos/PomfretCTPhotos//Sketches/5>)

Building Sub-Areas (sq ft)			Legend	
Code	Description	Gross Area	Living Area	
FUS	Finished Upper Story	3,041	3,041	
BAS	First Floor	3,036	3,036	
FHS	Finished Half Story	3,028	1,514	
FOP	Open Porch	595	0	
UBM	Unfin Bsmt	3,014	0	
		12,714	7,591	

Building 2 : Section 1

Year Built: 1955
Living Area: 24,484
Replacement Cost
Less Depreciation: \$3,879,800

Building Attributes : Bldg 2 of 22	
Field	Description
STYLE	School/College
MODEL	Ind/Comm
Stories:	1.75
Occupancy	1

Building Photo

Exterior Wall 1	Brick/Masonry
Exterior Wall 2	
Roof Structure	Gable/Hip
Roof Cover	Asph/F Gls/Cmp
Interior Wall 1	Plywood Panel
Interior Wall 2	Drywall/Sheet
Interior Floor 1	Vinyl/Asphalt
Interior Floor 2	Carpet
Heating Fuel	Oil
Heating Type	Steam
AC Type	None
Bldg Use	PVT SCHOOL MDL-96
Total Rooms	
Total Bedrms	00
Total Baths	0
1st Floor Use:	904I
Heat/AC	NONE
Frame Type	MASONRY
Baths/Plumbing	AVERAGE
Ceiling/Wall	CEIL & WALLS
Rooms/Prtns	AVERAGE
Wall Height	14
% Comn Wall	0



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Building Layout



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Building Sub-Areas (sq ft)			Legend
Code	Description	Gross Area	Living Area
BAS	First Floor	13,371	13,371
SFB	Finished Raised Bsmt	10,851	9,223
TQS	Three Quarter Story	2,520	1,890
FOP	Open Porch	540	0
		27,282	24,484

Building 3 : Section 1

Year Built: 1969
Living Area: 6,924
Replacement Cost
Less Depreciation: \$1,280,000

Building Attributes : Bldg 3 of 22	
Field	Description
STYLE	Library
MODEL	Comm/Ind
Stories:	1
Occupancy	1
Exterior Wall 1	Pre-cast Concr

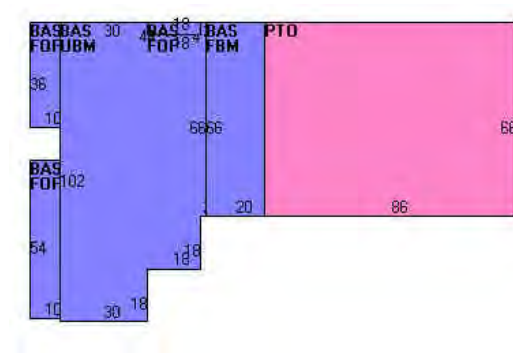
Building Photo

Exterior Wall 2	
Roof Structure	Flat
Roof Cover	Tar & Gravel
Interior Wall 1	Minim/Masonry
Interior Wall 2	
Interior Floor 1	Concr-Finished
Interior Floor 2	
Heating Fuel	Oil
Heating Type	Steam
AC Type	None
Bldg Use	PVT SCHOOL MDL-94
Total Rooms	
Total Bedrms	00
Total Baths	0
1st Floor Use:	904C
Heat/AC	NONE
Frame Type	MASONRY
Baths/Plumbing	AVERAGE
Ceiling/Wall	CEIL & WALLS
Rooms/Prtns	AVERAGE
Wall Height	10
% Comn Wall	0



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Building Layout



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Building Sub-Areas (sq ft)			Legend	
Code	Description	Gross Area	Living Area	
BAS	First Floor	6,924	6,924	
FBM	Finished Basement	1,320	0	
FOP	Open Porch	972	0	
PTO	Patio	5,676	0	
UBM	Unfin Bsmt	4,632	0	
		19,524	6,924	

Building 4 : Section 1

Year Built: 1907
Living Area: 4,480
Replacement Cost
Less Depreciation: \$856,100

Building Attributes : Bldg 4 of 22	
Field	Description
STYLE	Churches
MODEL	Ind/Comm
Stories:	1
Occupancy	1

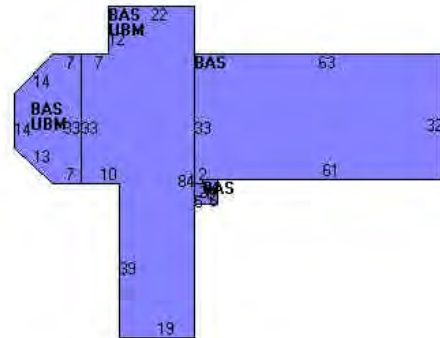
Building Photo

Exterior Wall 1	Stone/Masonry
Exterior Wall 2	
Roof Structure	Gable/Hip
Roof Cover	Slate
Interior Wall 1	Minim/Masonry
Interior Wall 2	Cust Wd Panel
Interior Floor 1	Marble
Interior Floor 2	
Heating Fuel	Oil
Heating Type	Forced Air-Duc
AC Type	None
Bldg Use	PVT SCHOOL MDL-96
Total Rooms	
Total Bedrms	00
Total Baths	0
1st Floor Use:	904I
Heat/AC	NONE
Frame Type	MASONRY
Baths/Plumbing	AVERAGE
Ceiling/Wall	CEIL & WALLS
Rooms/Prtns	AVERAGE
Wall Height	20
% Comn Wall	0



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Building Layout



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Building Sub-Areas (sq ft)			Legend
Code	Description	Gross Area	Living Area
BAS	First Floor	4,480	4,480
UBM	Unfin Bsmt	2,428	0
		6,908	4,480

Building 5 : Section 1

Year Built: 1958
Living Area: 10,211
Replacement Cost
Less Depreciation: \$1,463,500

Building Attributes : Bldg 5 of 22	
Field	Description
STYLE	School/College
MODEL	Ind/Comm
Stories:	2
Occupancy	1
Exterior Wall 1	Brick/Masonry
Exterior Wall 2	
Roof Structure	Flat

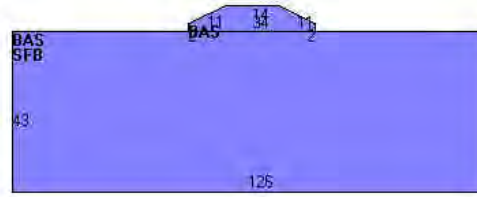
Building Photo



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Roof Cover	Tar & Gravel
Interior Wall 1	Minim/Masonry
Interior Wall 2	Drywall/Sheet
Interior Floor 1	Vinyl/Asphalt
Interior Floor 2	
Heating Fuel	Oil
Heating Type	Steam
AC Type	None
Bldg Use	PVT SCHOOL MDL-96
Total Rooms	
Total Bedrms	00
Total Baths	0
1st Floor Use:	904I
Heat/AC	NONE
Frame Type	MASONRY
Baths/Plumbing	AVERAGE
Ceiling/Wall	CEIL & WALLS
Rooms/Prtns	AVERAGE
Wall Height	10
% Comn Wall	0

Building Layout



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Building Sub-Areas (sq ft)			Legend
Code	Description	Gross Area	Living Area
BAS	First Floor	5,606	5,606
SFB	Finished Raised Bsmt	5,418	4,605
		11,024	10,211

Building 6 : Section 1

Year Built: 1900
Living Area: 8,303
Replacement Cost
Less Depreciation: \$941,800

Building Attributes : Bldg 6 of 22	
Field	Description
STYLE	Aud/Gym
MODEL	Ind/Comm
Stories:	1
Occupancy	1
Exterior Wall 1	Brick/Masonry
Exterior Wall 2	
Roof Structure	Gable/Hip
Roof Cover	Slate
Interior Wall 1	Minim/Masonry
Interior Wall 2	Plastered
Interior Floor 1	Carpet
Interior Floor 2	
Heating Fuel	Oil
Heating Type	Steam
AC Type	None
Bldg Use	PVT SCHOOL MDL-96

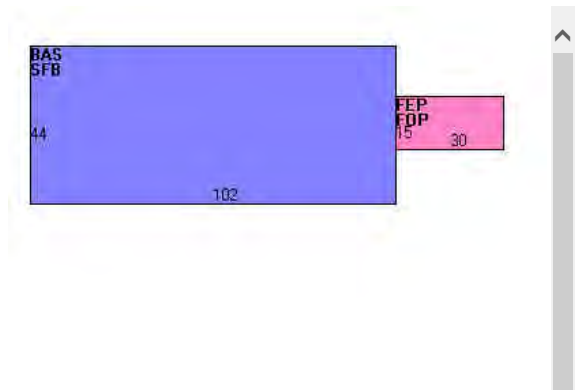
Building Photo



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Building Layout

Total Rooms	
Total Bedrms	00
Total Baths	0
1st Floor Use:	904I
Heat/AC	NONE
Frame Type	MASONRY
Baths/Plumbing	AVERAGE
Ceiling/Wall	CEIL & WALLS
Rooms/Prtns	AVERAGE
Wall Height	14
% Comn Wall	0



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Building Sub-Areas (sq ft)		Legend	
Code	Description	Gross Area	Living Area
BAS	First Floor	4,488	4,488
SFB	Finished Raised Bsmt	4,488	3,815
FEP	Finished Enclosed Porch	450	0
FOP	Open Porch	450	0
		9,876	8,303

Building 7 : Section 1

Year Built: 1900
Living Area: 17,523
Replacement Cost
Less Depreciation: \$3,067,000

Building Attributes : Bldg 7 of 22	
Field	Description
STYLE	School/College
MODEL	Ind/Comm
Stories:	2.75
Occupancy	1
Exterior Wall 1	Brick/Masonry
Exterior Wall 2	
Roof Structure	Gable/Hip
Roof Cover	Slate
Interior Wall 1	Minim/Masonry
Interior Wall 2	Drywall/Sheet
Interior Floor 1	Carpet
Interior Floor 2	
Heating Fuel	Oil
Heating Type	Steam
AC Type	None
Bldg Use	PVT SCHOOL MDL-96
Total Rooms	
Total Bedrms	00

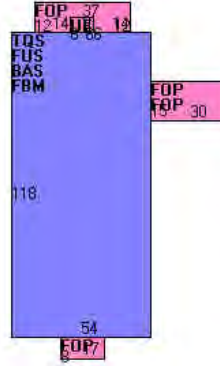
Building Photo



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Building Layout

Total Baths	0
1st Floor Use:	9041
Heat/AC	NONE
Frame Type	MASONRY
Baths/Plumbing	AVERAGE
Ceiling/Wall	CEIL & WALLS
Rooms/Prtns	AVERAGE
Wall Height	10
% Comn Wall	0



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Building Sub-Areas (sq ft)			Legend
Code	Description	Gross Area	Living Area
BAS	First Floor	6,372	6,372
FUS	Finished Upper Story	6,372	6,372
TQS	Three Quarter Story	6,372	4,779
FBM	Finished Basement	6,372	0
FOP	Open Porch	1,426	0
UEP	Unfin Enclosed Porch	54	0
		26,968	17,523

Building 8 : Section 1

Year Built: 1900
Living Area: 11,834
Replacement Cost
Less Depreciation: \$1,117,200

Building Attributes : Bldg 8 of 22	
Field	Description
STYLE	Dormitory
MODEL	Ind/Comm
Stories:	2
Occupancy	29
Exterior Wall 1	Brick/Masonry
Exterior Wall 2	
Roof Structure	Gable/Hip
Roof Cover	Slate
Interior Wall 1	Minim/Masonry
Interior Wall 2	Drywall/Sheet
Interior Floor 1	Vinyl/Asphalt
Interior Floor 2	Carpet
Heating Fuel	Oil
Heating Type	Steam
AC Type	None
Bldg Use	DVT SCHOOL MDL 05

Building Photo



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Building Layout

Total Rooms	
Total Bedrms	00
Total Baths	0
1st Floor Use:	904I
Heat/AC	NONE
Frame Type	MASONRY
Baths/Plumbing	AVERAGE
Ceiling/Wall	CEIL & WALLS
Rooms/Prtns	AVERAGE
Wall Height	10
% Comn Wall	0



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Building Sub-Areas (sq ft)		Legend	
Code	Description	Gross Area	Living Area
BAS	First Floor	4,384	4,384
SFB	Finished Raised Bsmt	4,384	3,726
FUS	Finished Upper Story	3,724	3,724
FOP	Open Porch	300	0
UAT	Unfinished Attic	3,724	0
		16,516	11,834

Building 9 : Section 1

Year Built: 1900
Living Area: 13,853
Replacement Cost
Less Depreciation: \$1,325,200

Building Attributes : Bldg 9 of 22	
Field	Description
STYLE	Dormitory
MODEL	Ind/Comm
Stories:	2
Occupancy	40
Exterior Wall 1	Brick/Masonry
Exterior Wall 2	
Roof Structure	Gable/Hip
Roof Cover	Slate
Interior Wall 1	Minim/Masonry
Interior Wall 2	Drywall/Sheet
Interior Floor 1	Vinyl/Asphalt
Interior Floor 2	Carpet
Heating Fuel	Oil
Heating Type	Steam
AC Type	None
Bldg Use	PVT SCHOOL MDL-96
Total Rooms	

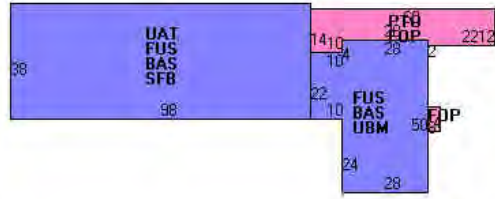
Building Photo



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Building Layout

Total Bedrms	00
Total Baths	0
1st Floor Use:	904I
Heat/AC	NONE
Frame Type	MASONRY
Baths/Plumbing	AVERAGE
Ceiling/Wall	CEIL & WALLS
Rooms/Prtns	AVERAGE
Wall Height	10
% Comn Wall	0



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Building Sub-Areas (sq ft)		Legend	
Code	Description	Gross Area	Living Area
BAS	First Floor	5,344	5,344
FUS	Finished Upper Story	5,344	5,344
SFB	Finished Raised Bsmt	3,724	3,165
FOP	Open Porch	716	0
PTO	Patio	684	0
UAT	Unfinished Attic	3,724	0
UBM	Unfin Bsmt	1,620	0
		21,156	13,853

Building 10 : Section 1

Year Built: 1900
Living Area: 13,853
Replacement Cost
Less Depreciation: \$1,325,200

Building Attributes : Bldg 10 of 22	
Field	Description
STYLE	Dormitory
MODEL	Ind/Comm
Stories:	2
Occupancy	40
Exterior Wall 1	Brick/Masonry
Exterior Wall 2	
Roof Structure	Gable/Hip
Roof Cover	Slate
Interior Wall 1	Minim/Masonry
Interior Wall 2	Drywall/Sheet
Interior Floor 1	Vinyl/Asphalt
Interior Floor 2	Carpet
Heating Fuel	Oil
Heating Type	Steam
AC Type	None

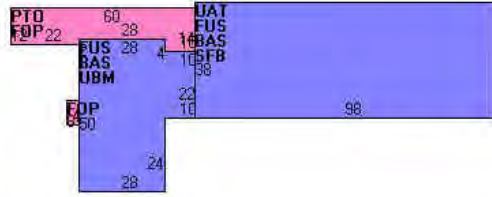
Building Photo



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Building Layout

Bldg Use	PVT SCHOOL MDL-96
Total Rooms	
Total Bedrms	00
Total Baths	0
1st Floor Use:	9041
Heat/AC	NONE
Frame Type	MASONRY
Baths/Plumbing	AVERAGE
Ceiling/Wall	CEIL & WALLS
Rooms/Prtns	AVERAGE
Wall Height	10
% Comn Wall	0



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Building Sub-Areas (sq ft)		Legend	
Code	Description	Gross Area	Living Area
BAS	First Floor	5,344	5,344
FUS	Finished Upper Story	5,344	5,344
SFB	Finished Raised Bsmt	3,724	3,165
FOP	Open Porch	716	0
PTO	Patio	684	0
UAT	Unfinished Attic	3,724	0
UBM	Unfin Bsmt	1,620	0
		21,156	13,853

Building 11 : Section 1

Year Built: 1900
Living Area: 11,834
Replacement Cost
Less Depreciation: \$1,117,200

Building Attributes : Bldg 11 of 22	
Field	Description
STYLE	Dormitory
MODEL	Ind/Comm
Stories:	2
Occupancy	34
Exterior Wall 1	Brick/Masonry
Exterior Wall 2	
Roof Structure	Gable/Hip
Roof Cover	Slate
Interior Wall 1	Minim/Masonry
Interior Wall 2	Drywall/Sheet
Interior Floor 1	Vinyl/Asphalt
Interior Floor 2	Carpet
Heating Fuel	Oil
Heating Type	Steam
AC Type	None

Building Photo



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Building Layout

Bldg Use	PVT SCHOOL MDL-96
Total Rooms	
Total Bedrms	00
Total Baths	0
1st Floor Use:	9041
Heat/AC	NONE
Frame Type	MASONRY
Baths/Plumbing	AVERAGE
Ceiling/Wall	CEIL & WALLS
Rooms/Prtns	AVERAGE
Wall Height	10
% Comn Wall	0



(<http://images.vgsi.com/photos/PomfretCTPhotos//Sketches/5>)

Building Sub-Areas (sq ft)		Legend	
Code	Description	Gross Area	Living Area
BAS	First Floor	4,384	4,384
SFB	Finished Raised Bsmt	4,384	3,726
FUS	Finished Upper Story	3,724	3,724
FOP	Open Porch	300	0
UAT	Unfinished Attic	3,724	0
		16,516	11,834

Building 12 : Section 1

Year Built: 1971
Living Area: 6,508
Replacement Cost
Less Depreciation: \$832,400

Building Attributes : Bldg 12 of 22	
Field	Description
STYLE	Dormitory
MODEL	Ind/Comm
Stories:	1.75
Occupancy	11
Exterior Wall 1	Brick/Masonry
Exterior Wall 2	
Roof Structure	Gable/Hip
Roof Cover	Slate
Interior Wall 1	Drywall/Sheet
Interior Wall 2	
Interior Floor 1	Vinyl/Asphalt
Interior Floor 2	Carpet
Heating Fuel	Oil
Heating Type	Hot Water
AC Type	None
Bldg Use	PVT SCHOOL MDL-96
Total Rooms	

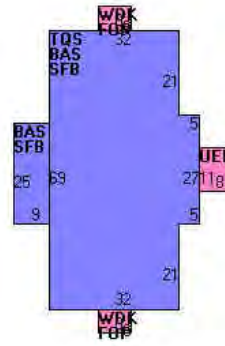
Building Photo



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Building Layout

Total Bedrms	00
Total Baths	0
1st Floor Use:	904I
Heat/AC	NONE
Frame Type	MASONRY
Baths/Plumbing	AVERAGE
Ceiling/Wall	CEIL & WALLS
Rooms/Prtns	AVERAGE
Wall Height	10
% Comn Wall	0



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Building Sub-Areas (sq ft)		Legend	
Code	Description	Gross Area	Living Area
BAS	First Floor	2,568	2,568
SFB	Finished Raised Bsmt	2,568	2,183
TQS	Three Quarter Story	2,343	1,757
FOP	Open Porch	96	0
UEP	Unfin Enclosed Porch	88	0
WDK	Deck	96	0
		7,759	6,508

Building 13 : Section 1

Year Built: 1920
Living Area: 72,166
Replacement Cost
Less Depreciation: \$6,962,100

Building Attributes : Bldg 13 of 22	
Field	Description
STYLE	Aud/Gym
MODEL	Ind/Comm
Stories:	3
Occupancy	1
Exterior Wall 1	Brick/Masonry
Exterior Wall 2	
Roof Structure	Gable/Hip
Roof Cover	Asph/F Gls/Cmp
Interior Wall 1	Minim/Masonry
Interior Wall 2	Drywall/Sheet
Interior Floor 1	Hardwood
Interior Floor 2	Carpet
Heating Fuel	Oil
Heating Type	Steam
AC Type	None
Bldg Use	PVT SCHOOL MDL 05

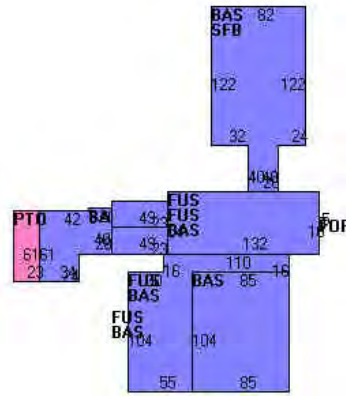
Building Photo



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Building Layout

Total Rooms	
Total Bedrms	00
Total Baths	0
1st Floor Use:	904I
Heat/AC	NONE
Frame Type	MASONRY
Baths/Plumbing	AVERAGE
Ceiling/Wall	CEIL & WALLS
Rooms/Prtns	AVERAGE
Wall Height	18
% Comn Wall	0



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Building Sub-Areas (sq ft)		Legend	
Code	Description	Gross Area	Living Area
BAS	First Floor	39,916	39,916
FUS	Finished Upper Story	22,863	22,863
SFB	Finished Raised Bsmt	11,044	9,387
FOP	Open Porch	50	0
PTO	Patio	1,403	0
		75,276	72,166

Building 14 : Section 1

Year Built: 1994
Living Area: 19,061
Replacement Cost
Less Depreciation: \$3,973,500

Building Attributes : Bldg 14 of 22	
Field	Description
STYLE	School/College
MODEL	Ind/Comm
Stories:	2
Occupancy	1
Exterior Wall 1	Brick/Masonry
Exterior Wall 2	
Roof Structure	Gable/Hip
Roof Cover	Slate
Interior Wall 1	Minim/Masonry
Interior Wall 2	Drywall/Sheet
Interior Floor 1	Carpet
Interior Floor 2	Vinyl/Asphalt
Heating Fuel	Oil
Heating Type	Steam
AC Type	Central
Bldg Use	STATE EDUC MDL-96
Total Rooms	

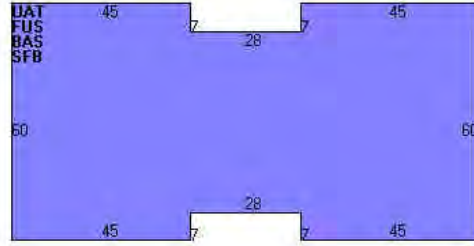
Building Photo



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Building Layout

Total Bedrms	00
Total Baths	0
1st Floor Use:	901L
Heat/AC	HEAT/AC SPLIT
Frame Type	MASONRY
Baths/Plumbing	AVERAGE
Ceiling/Wall	CEIL & WALLS
Rooms/Prtns	AVERAGE
Wall Height	10
% Comn Wall	0



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Building Sub-Areas (sq ft)			Legend
Code	Description	Gross Area	Living Area
BAS	First Floor	6,688	6,688
FUS	Finished Upper Story	6,688	6,688
SFB	Finished Raised Bsmt	6,688	5,685
UAT	Unfinished Attic	6,688	0
		26,752	19,061

Building 15 : Section 1

Year Built: 1965
Living Area: 32,502
Replacement Cost
Less Depreciation: \$1,753,200

Building Attributes : Bldg 15 of 22	
Field	Description
STYLE	Skating Arena
MODEL	Ind/Comm
Stories:	1
Occupancy	1
Exterior Wall 1	Pre-finish Metl
Exterior Wall 2	
Roof Structure	Gable/Hip
Roof Cover	Metal/Tin
Interior Wall 1	Minim/Masonry
Interior Wall 2	
Interior Floor 1	Concr-Finished
Interior Floor 2	
Heating Fuel	Gas
Heating Type	Forced Air-Duc
AC Type	None
Bldg Use	PVT SCHOOL MDL-96
Total Rooms	
Total Bedrms	00

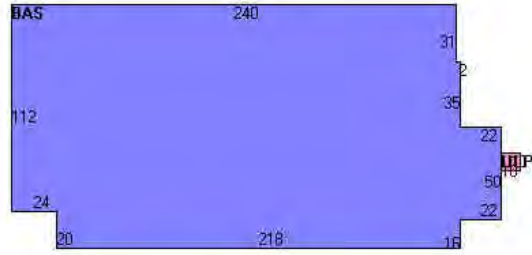
Building Photo



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Building Layout

Total Baths	0
1st Floor Use:	9041
Heat/AC	NONE
Frame Type	STEEL
Baths/Plumbing	AVERAGE
Ceiling/Wall	CEIL & MIN WL
Rooms/Prtns	AVERAGE
Wall Height	16
% Comn Wall	0



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Building Sub-Areas (sq ft)			Legend
Code	Description	Gross Area	Living Area
BAS	First Floor	32,502	32,502
ULP	Loading Platform	100	0
		32,602	32,502

Building 16 : Section 1

Year Built: 1975
Living Area: 1,652
Replacement Cost
Less Depreciation: \$115,700

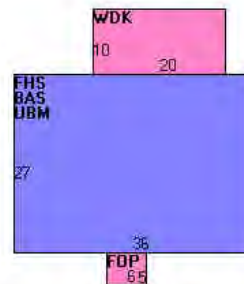
Building Attributes : Bldg 16 of 22	
Field	Description
Style	Cape
Model	Residential
Stories:	1 1/2 Stories
Occupancy	1
Exterior Wall 1	Clapboard
Exterior Wall 2	
Roof Structure:	Gable
Roof Cover	Asphalt
Interior Wall 1	Drywall
Interior Wall 2	
Interior Flr 1	Carpet
Interior Flr 2	Hardwood
Heat Fuel	Oil
Heat Type:	Steam
AC Type:	None
Total Bedrooms:	4 Bedrooms
Full Baths:	2
Half Baths:	0
Xtra Fixtrs:	
Total Rooms:	0

Building Photo



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Building Layout



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Extra Kitchens	
Whirlpool	
Fireplace	
Xtra Opening	
Blocked FPL	
Gas Fireplace	

Building Sub-Areas (sq ft)			Legend
Code	Description	Gross Area	Living Area
BAS	First Floor	972	972
FHS	Finished Half Story	972	680
FOP	Open Porch	30	0
UBM	Unfin Bsmt	972	0
WDK	Deck	200	0
		3,146	1,652

Building 17 : Section 1

Year Built: 1900
Living Area: 1,403
Replacement Cost
Less Depreciation: \$86,400

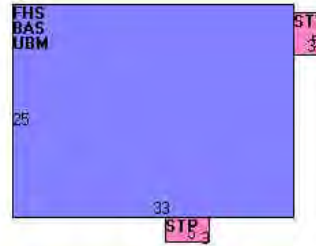
Building Attributes : Bldg 17 of 22	
Field	Description
Style	Cape
Model	Residential
Stories:	1.5
Occupancy	1
Exterior Wall 1	Clapboard
Exterior Wall 2	
Roof Structure:	Gable
Roof Cover	Asphalt
Interior Wall 1	Drywall
Interior Wall 2	
Interior Flr 1	Hardwood
Interior Flr 2	
Heat Fuel	Oil
Heat Type:	Hot Water
AC Type:	None
Total Bedrooms:	3 Bedrooms
Full Baths:	2
Half Baths:	0
Xtra Fixtrs:	
Total Rooms:	7
Extra Kitchens	
Whirlpool	
Fireplace	1
Xtra Opening	
Blocked FPL	
Gas Fireplace	

Building Photo



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Building Layout



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Building Sub-Areas (sq ft)			Legend
Code	Description	Gross Area	Living Area
BAS	First Floor	825	825
FHS	Finished Half Story	825	578
STP	Stoop	30	0
UBM	Unfin Bsmt	825	0
		2,505	1,403

Building 18 : Section 1

Year Built: 1900
Living Area: 2,245
Replacement Cost
Less Depreciation: \$131,300

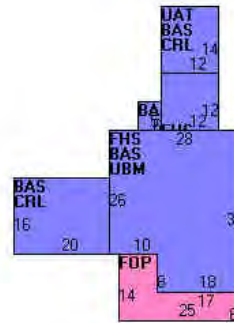
Building Attributes : Bldg 18 of 22	
Field	Description
Style	Conventional
Model	Residential
Stories:	1 3/4 Stories
Occupancy	1
Exterior Wall 1	Clapboard
Exterior Wall 2	
Roof Structure:	Gable
Roof Cover	Asphalt
Interior Wall 1	Drywall
Interior Wall 2	Plaster
Interior Flr 1	Carpet
Interior Flr 2	Hardwood
Heat Fuel	Oil
Heat Type:	Steam
AC Type:	None
Total Bedrooms:	5 Bedrooms
Full Baths:	2
Half Baths:	1
Xtra Fixtrs:	
Total Rooms:	9
Extra Kitchens	
Whirlpool	
Fireplace	1
Xtra Opening	1
Blocked FPL	
Gas Fireplace	

Building Photo



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Building Layout



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Building Sub-Areas (sq ft)		Legend	
Code	Description	Gross Area	Living Area
BAS	First Floor	1,534	1,534
FHS	Finished Half Story	1,016	711
CRL	Crawl Space	632	0
FOP	Open Porch	214	0
UAT	Unfinished Attic	168	0
UBM	Unfin Bsmt	872	0
		4,436	2,245

Building 19 : Section 1

Year Built: 1900
Living Area: 1,225
Replacement Cost
Less Depreciation: \$77,700

Building Attributes : Bldg 19 of 22	
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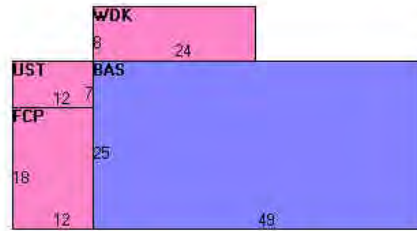
Building Photo

Field	Description
Style	Ranch
Model	Residential
Stories:	1 Story
Occupancy	1
Exterior Wall 1	Wood on Sheath
Exterior Wall 2	
Roof Structure:	Gable
Roof Cover	Asphalt
Interior Wall 1	Drywall
Interior Wall 2	
Interior Flr 1	Carpet
Interior Flr 2	
Heat Fuel	Oil
Heat Type:	Hot Water
AC Type:	None
Total Bedrooms:	3 Bedrooms
Full Baths:	1
Half Baths:	1
Xtra Fixtrs:	
Total Rooms:	5 Rooms
Extra Kitchens	
Whirlpool	
Fireplace	
Xtra Opening	
Blocked FPL	
Gas Fireplace	



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Building Layout



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Building Sub-Areas (sq ft)		Legend	
Code	Description	Gross Area	Living Area
BAS	First Floor	1,225	1,225
FCP	Carport	216	0
UST	Unfinished Storage	84	0
WDK	Deck	192	0
		1,717	1,225

Building 20 : Section 1

Year Built: 1900
Living Area: 2,352
Replacement Cost
Less Depreciation: \$140,300

Building Attributes : Bldg 20 of 22	
Field	Description
Style	Conventional
Model	Residential
Stories:	2 Stories
Occupancy	1
Exterior Wall 1	Wood Shingle

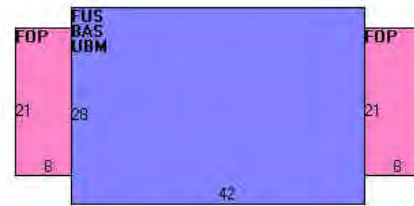
Building Photo

Exterior Wall 2	
Roof Structure:	Gable
Roof Cover	Asphalt
Interior Wall 1	Drywall
Interior Wall 2	Plaster
Interior Flr 1	Hardwood
Interior Flr 2	
Heat Fuel	Oil
Heat Type:	Hot Water
AC Type:	None
Total Bedrooms:	4 Bedrooms
Full Baths:	2
Half Baths:	1
Xtra Fixtrs:	
Total Rooms:	8
Extra Kitchens	
Whirlpool	
Fireplace	2
Xtra Opening	
Blocked FPL	
Gas Fireplace	



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Building Layout



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Building Sub-Areas (sq ft)			Legend	
Code	Description	Gross Area	Living Area	
BAS	First Floor	1,176	1,176	
FUS	Finished Upper Story	1,176	1,176	
FOP	Open Porch	336	0	
UBM	Unfin Bsmt	1,176	0	
		3,864	2,352	

Building 21 : Section 1

Year Built: 2002
Living Area: 2,611
Replacement Cost
Less Depreciation: \$192,500

Building Attributes : Bldg 21 of 22	
Field	Description
Style	Cape
Model	Residential
Stories:	1 1/2 Stories
Occupancy	1
Exterior Wall 1	Cedar or Redwd

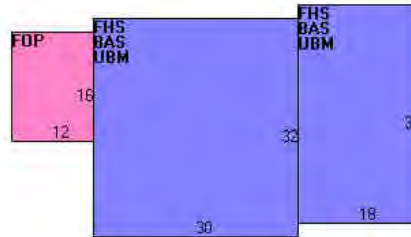
Building Photo

Exterior Wall 2	
Roof Structure:	Gable
Roof Cover	Asphalt
Interior Wall 1	Drywall
Interior Wall 2	
Interior Flr 1	Hardwood
Interior Flr 2	
Heat Fuel	Oil
Heat Type:	Hot Water
AC Type:	None
Total Bedrooms:	4 Bedrooms
Full Baths:	2
Half Baths:	1
Xtra Fixtrs:	1
Total Rooms:	8 Rooms
Extra Kitchens	
Whirlpool	
Fireplace	1
Xtra Opening	1
Blocked FPL	
Gas Fireplace	



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Building Layout



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Building Sub-Areas (sq ft)			Legend	
Code	Description	Gross Area	Living Area	
BAS	First Floor	1,536	1,536	
FHS	Finished Half Story	1,536	1,075	
FOP	Open Porch	192	0	
UBM	Unfin Bsmt	1,536	0	
		4,800	2,611	

Building 22 : Section 1

Year Built: 2002
Living Area: 6,900
Replacement Cost
Less Depreciation: \$624,600

Building Attributes : Bldg 22 of 22	
Field	Description
STYLE	Garage/Office
MODEL	Ind/Comm
Stories:	1
Occupancy	1
Exterior Wall 1	Clapboard

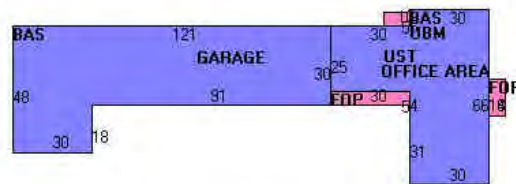
Building Photo

Exterior Wall 2	
Roof Structure	Wood Truss
Roof Cover	Corrug Asb
Interior Wall 1	Drywall/Sheet
Interior Wall 2	
Interior Floor 1	Vinyl/Asphalt
Interior Floor 2	Concr-Finished
Heating Fuel	Oil
Heating Type	Forced Air-Duc
AC Type	Central
Bldg Use	PVT SCHOOL MDL-96
Total Rooms	
Total Bedrms	00
Total Baths	0
1st Floor Use:	9041
Heat/AC	HEAT/AC SPLIT
Frame Type	WOOD FRAME
Baths/Plumbing	AVERAGE
Ceiling/Wall	CEIL & WALLS
Rooms/Prtns	AVERAGE
Wall Height	9
% Comn Wall	0



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Building Layout



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Building Sub-Areas (sq ft)			Legend	
Code	Description	Gross Area	Living Area	
BAS	First Floor	6,900	6,900	
FOP	Open Porch	234	0	
UBM	Unfin Bsmt	2,730	0	
UST	Unfinished Storage	50	0	
		9,914	6,900	



Extra Features

Extra Features				Legend	
Code	Description	Size	Value	Bldg #	
A/C	AIR CONDITIONING	2670 S.F.	\$5,000	22	
ELV1	ELEVATOR	3 STOPS	\$83,700	14	
FPL3	2ST COMM FPL	1 UNITS	\$1,700	9	
MEZ2	FINISHED	228 S.F.	\$1,900	4	
MEZ2	FINISHED	660 S.F.	\$4,900	6	
SPR1	SPRINKLERS-WET	16516 S.F.	\$8,200	8	
SPR1	SPRINKLERS-WET	16516 S.F.	\$8,200	11	

SPR1	SPRINKLERS-WET	21156 S.F.	\$10,500	10
SPR2	WET/CONCEALED	7759 S.F.	\$6,700	12
FPL3	2ST COMM FPL	1 UNITS	\$1,700	10
MEZ2	FINISHED	3848 S.F.	\$33,700	3
SPR1	SPRINKLERS-WET	21156 S.F.	\$10,500	9
SPR2	WET/CONCEALED	26752 S.F.	\$27,400	14
A/C	AIR CONDITIONING	1320 S.F.	\$1,900	3
FPL3	2ST COMM FPL	3 UNITS	\$4,900	1
A/C	AIR CONDITIONING	12000 S.F.	\$14,900	13
FPO	COMM FPL - XTRA OP	1 UNITS	\$500	1
ELV1	ELEVATOR	5 STOPS	\$93,000	13
SPR1	SPRINKLERS-WET	12714 S.F.	\$5,900	1
SPR2	WET/CONCEALED	75276 S.F.	\$51,300	13
MEZ2	FINISHED	1680 S.F.	\$12,500	13

Land

Land Use

Use Code 904C
Description PVT SCHOOL MDL-94
Zone PSR
Neighborhood 800
Alt Land Appr Category No

Land Line Valuation

Size (Acres) 141.24
Frontage 0
Depth 0
Assessed Value \$904,100
Appraised Value \$1,291,500

Outbuildings

Outbuildings						Legend
Code	Description	Sub Code	Sub Description	Size	Value	Bldg #
FGR1	Garage - Ave			2636 S.F.	\$34,300	13
PAT2	Patio - Good			6768 S.F.	\$27,100	3
PAV1	PAVING-ASPHALT			120000 S.F.	\$54,000	1
TEN	Tennis Court			4 UNITS	\$56,000	15
BRN5	2S Barn			2880 S.F.	\$40,300	22
PAT1	Patio - Ave			400 S.F.	\$1,000	12
SHD1	Shed			360 S.F.	\$2,500	13
TNK2	3000-10000 GAL			1000 GALS	\$400	15
BRN8	Pole Barn			1440 S.F.	\$10,800	22
SHD1	Shed			192 S.F.	\$1,300	13
SHD1	Shed			96 S.F.	\$700	15
SHD2	Shed - Good			96 S.F.	\$900	13
COM	COMM BLDG			920 UNITS	\$92,000	3
SHD2	Shed - Good			375 S.F.	\$6,800	1
SHD2	Shed - Good			375 S.F.	\$6,800	1
SHD2	Shed - Good			375 S.F.	\$6,800	1

TNK1	TANK-UNDERGRND			120000 GALS	\$66,000	13
SHD2	Shed - Good			375 S.F.	\$6,800	1

Valuation History

Appraisal			
Valuation Year	Improvements	Land	Total
2017	\$32,631,100	\$1,291,500	\$33,922,600
2016	\$32,631,100	\$1,291,500	\$33,922,600
2015	\$32,383,900	\$1,291,500	\$33,675,400

Assessment			
Valuation Year	Improvements	Land	Total
2017	\$22,842,100	\$904,100	\$23,746,200
2016	\$22,842,100	\$904,100	\$23,746,200
2015	\$22,669,000	\$904,100	\$23,573,100

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Exhibit C

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LEASE
EXHIBIT

NEW WIRELESS TELECOMMUNICATION FACILITY
BY

T-Mobile
T-MOBILE NORTHEAST LLC

SITE NUMBER: CT11525A
SITE ADDRESS: 398 POMFRET STREET
POMFRET, CT 06258

APPLICANT:
T-Mobile
T-MOBILE NORTHEAST LLC
35 GRIFFIN ROAD SOUTH
BLOOMFIELD, CT 06002
860-692-7100

PROJECT MANGER
NSS NORTHEAST
SITE SOLUTIONS
Turnkey Wireless Development
420 MAIN STREET, BLDG 4
STURBRIDGE, MA 01566
203-275-6669

CONSULTANT:
C:\Users\foos\My Documents\01-Logos\FORESITE LLC New Logo 2.jpg

462 WALNUT STREET
NEWTON, MA 02460
617-212-3123



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PRINTED MEDIA ONLY. ALL OTHER PRINTED SIZES
ARE DEEMED "NOT TO SCALE".

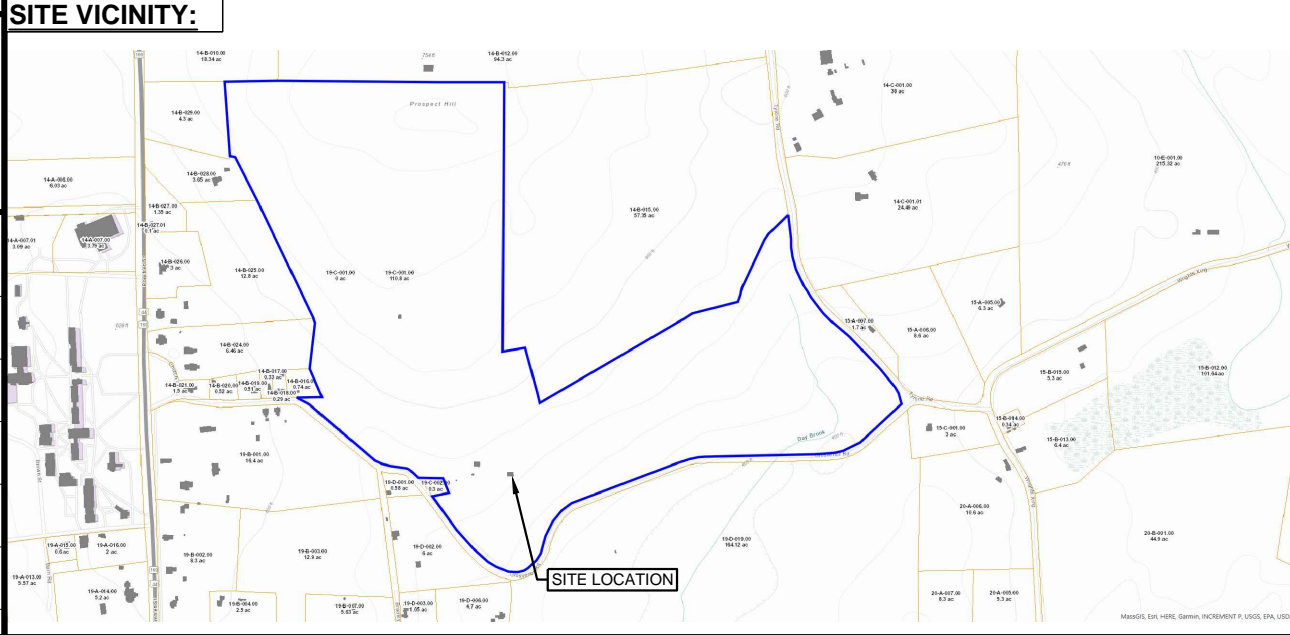
REV	DESCRIPTION	DATE
A	PRELIMINARY	03/12/18

SITE NUMBER: CT11525A
SITE ADDRESS: 398 POMFRET STREET
POMFRET, CT 06258

SHEET TITLE:
T-1: TITLE SHEET

PROJECT SCOPE:
ADDITION OF A BACKHAUL RADIO, (1) FIBER AND (2) CAT6 CABLES TO EXISTING TOWER.

- PROJECT NOTES:**
- THIS IS AN UNMANNED TELECOMMUNICATION FACILITY AND NOT FOR HUMAN HABITATION. HANDICAPPED ACCESS IS NOT REQUIRED. POTABLE WATER OR SANITARY SERVICE IS NOT REQUIRED. NO OUTDOOR STORAGE OR ANY SOLID WASTE RECEPTACLES REQUIRED.
 - CONTRACTOR SHALL VERIFY ALL PLANS, EXISTING DIMENSIONS, AND CONDITIONS ON THE JOB SITE. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT/ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK. FAILURE TO NOTIFY THE ARCHITECT/ENGINEER PLACES THE RESPONSIBILITY ON THE CONTRACTOR TO CORRECT THE DISCREPANCIES AT THE CONTRACTOR'S EXPENSE.
 - DEVELOPMENT AND USE OF THE SITE WILL CONFORM TO ALL APPLICABLE CODES, ORDINANCES AND SPECIFICATIONS.
 - PRIOR TO INSTALLATION OF THE PROPOSED EQUIPMENT, A STRUCTURAL EVALUATION SHOULD BE PERFORMED TO CERTIFY THAT THE EXISTING/PROPOSED STRUCTURE AND COMPONENTS HAVE ADEQUATE STRUCTURAL CAPACITY PER ALL THE APPLICABLE CODES AND STANDARDS IN THE PROJECT JURISDICTION. CONTRACTOR SHOULD REVIEW THE REPORT AND ADHERE TO THE REPORT FULLY AND ALL THE RECOMMENDATIONS THEREIN, INCLUDING BUT NOT LIMITED TO ANTENNA PLACEMENT, COAX ROUTING, STRUCTURAL IMPROVEMENTS, ETC.



PROJECT INFORMATION:

ADDRESS: 398 POMFRET STREET
POMFRET, CT 06258

COORDINATES: 40°34'10.99" N, 73°01'01.56" W

STRUCTURE TYPE: MONOPOLE TOWER

JURISDICTION: TOWN OF POMFRET, CT

CURRENT USE: TELECOMMUNICATIONS FACILITY

PROPOSED USE: TELECOMMUNICATIONS FACILITY

TOWER OWNER: SBA PROPERTIES, LLC

SBA SITE ID: CT02217-S

SBA SITE NAME: POMFRET SCHOOL

PROJECT TEAM:

APPLICANT: T-MOBILE NORTHEAST, LLC.
35 GRIFFIN ROAD SOUTH
BLOOMFIELD, CT 06002
860-692-7100

BUILDING OWNER: SBA PROPERTIES, LLC

PROJECT MANGER: NORTHEAST SITE SOLUTIONS
420 MAIN STREET, BLDG 4
STURBRIDGE, MA 01566
SHELDON FREINCLE
SHELDON@NORTHEASTSITESOLUTIONS.COM
201-776-8521

CONSULTANTS: FORESITE LLC
462 WALNUT ST
NEWTON, MA 02460
SAEED MOSSAVAT
SMOSSAVAT@FORESITELLC.COM
617-212-3123

SHEET INDEX:

T-1: TITLE SHEET

LE-1: PLANS AND ELEVATIONS

LE-2: DETAILS

APPLICABLE STATE ADOPTION CODES:

2016 CONNECTICUT STATE BUILDING CODE (CSBC).

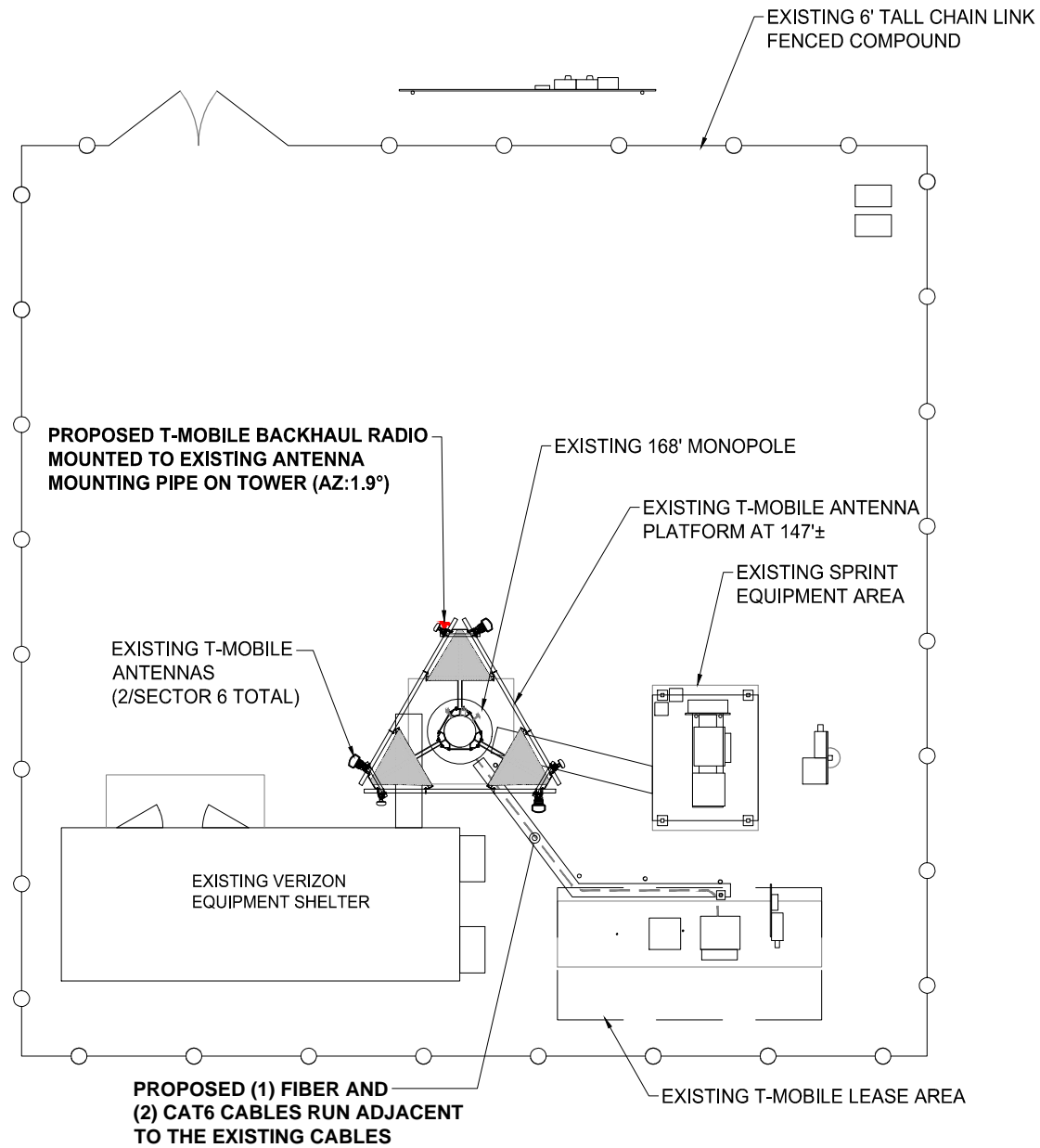
ANSI/TIA-222-G-2005 STRUCTURAL STANDARD FOR ANTENNA SUPPORTING STRUCTURES AND ANTENNAS.

2014 NATIONAL ELECTRICAL CODE (NFPA 70) FOR POWER AND GROUNDING REQUIREMENTS.

T-MOBILE APPROVALS:

FSA CM	DATE
RF ENGINEER	DATE
FOPS	DATE
T-MOBILE ENGINEERING AND DEVELOPMENT	DATE
	DATE
	DATE

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PLAN
N.T.S.

1
LE-1

STRUCTURAL NOTES:
PRIOR TO COMMENCING CONSTRUCTION, GC SHALL REFER TO TOWER STRUCTURAL ANALYSIS PROVIDED BY SBA TO DETERMINE IF THERE ANY SUPPLEMENTAL OR SPECIAL INSTALLATION REQUIREMENTS FOR TOWER TOP EQUIPMENT AND FOR CABLE BUNDLING, SHIELDING, MOUNTING, OR RELOCATION ARRANGEMENTS.

CENTER OF EXISTING ANTENNAS
ELEV: 147±

EXISTING T-MOBILE ANTENNAS
(2/SECTOR 6 TOTAL)

PROPOSED T-MOBILE BACKHAUL RADIO
MOUNTED TO EXISTING ANTENNA
MOUNTING PIPE ON TOWER (AZ:1.9°)

PROPOSED (1) FIBER AND
(2) CAT6 CABLES RUN ADJACENT TO
EXISTING CABLES INSIDE MONOPOLE

EXISTING 168' MONOPOLE



ELEVATION PHOTO DETAIL
N.T.S.

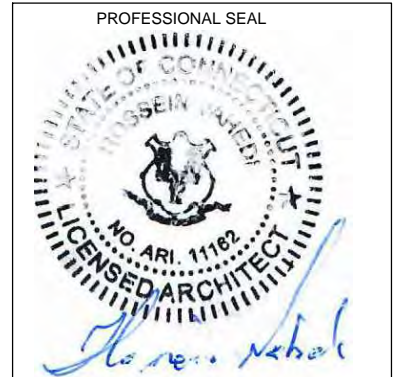
2
LE-1

APPLICANT:
T-Mobile
T-MOBILE NORTHEAST LLC

35 GRIFFIN ROAD SOUTH
BLOOMFIELD, CT 06002
860-692-7100

PROJECT MANGER
NSS NORTHEAST
SITE SOLUTIONS
Turnkey Wireless Development
420 MAIN STREET, BLDG 4
STURBRIDGE, MA 01566
203-275-6669

CONSULTANT:
FORESITE LLC
Innovative design solutions
Foresitelc.com
462 WALNUT STREET
NEWTON, MA 02460
617-212-3123



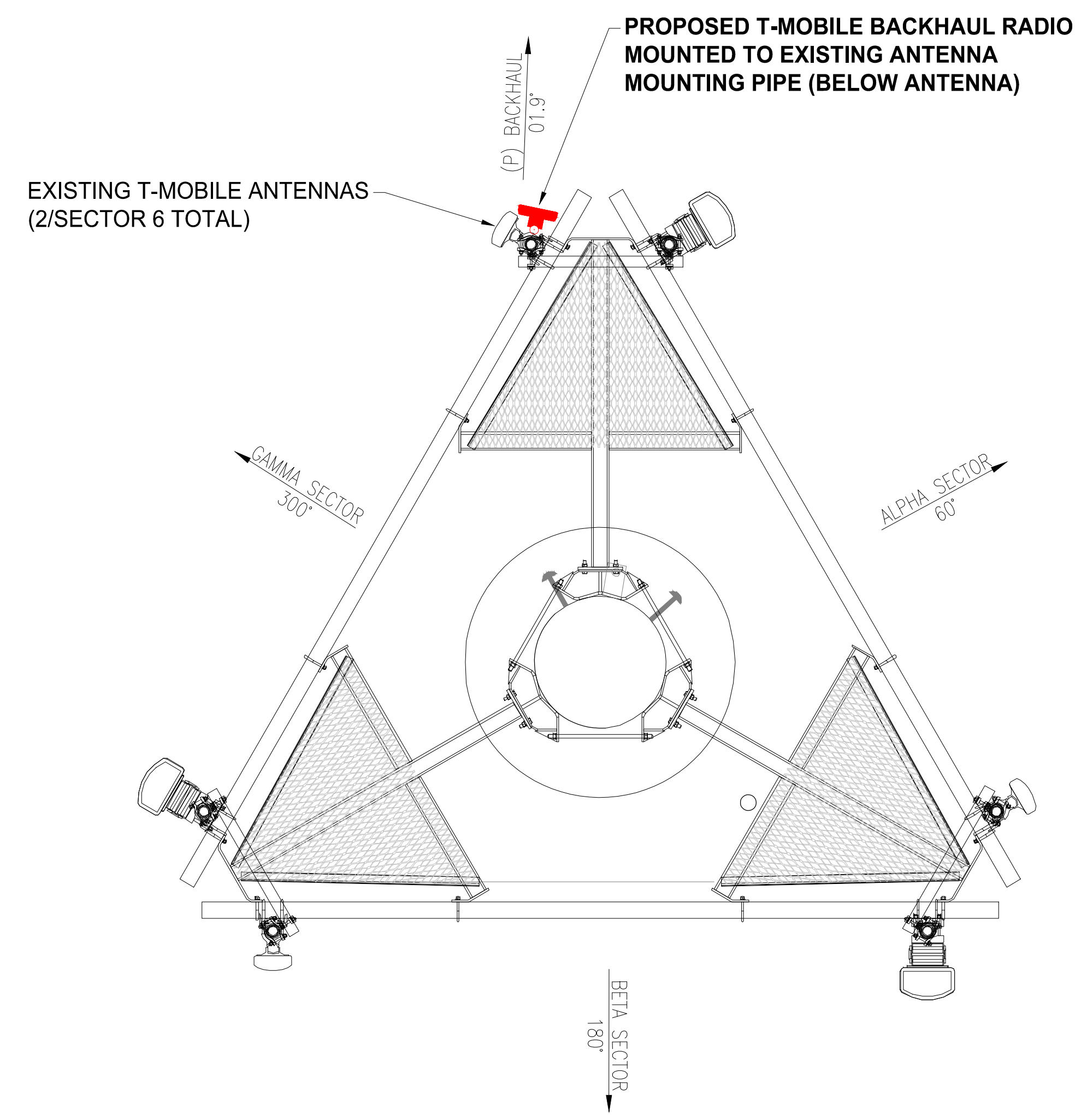
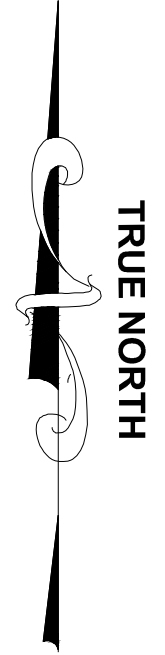
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REV	DESCRIPTION	DATE
A	PRELIMINARY	03/12/18

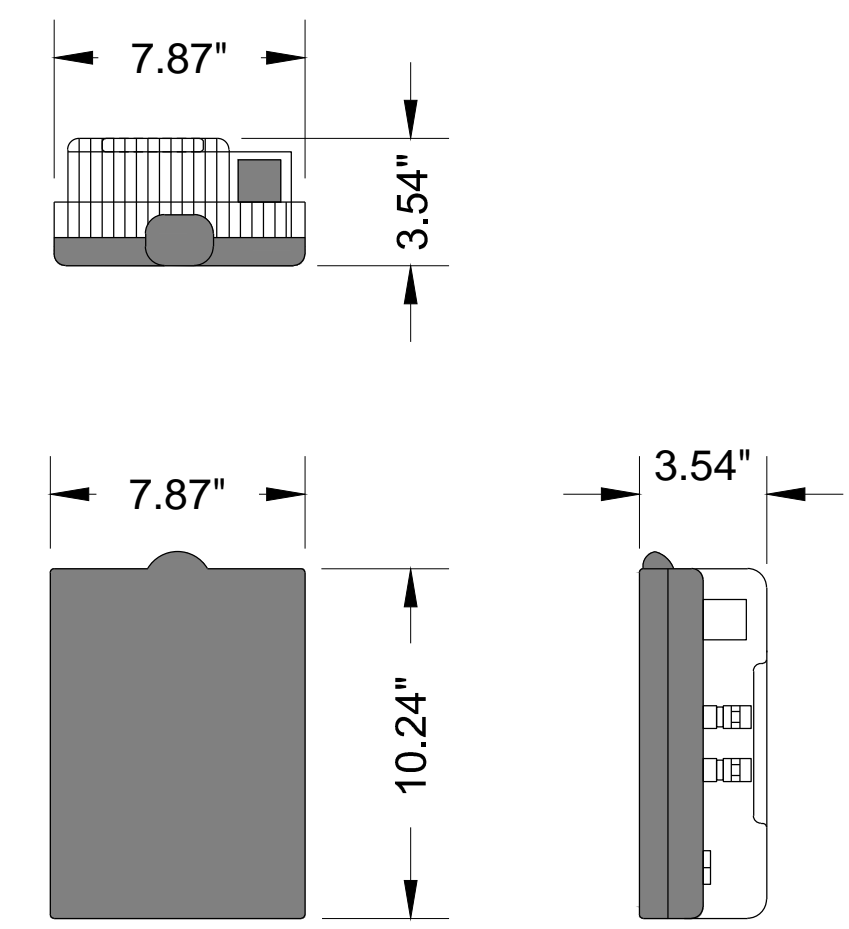
SITE NUMBER: CT11525A
SITE ADDRESS: 398 POMFRET STREET
POMFRET, CT 06258

SHEET TITLE:
LE-1: PLAN AND ELEVATION

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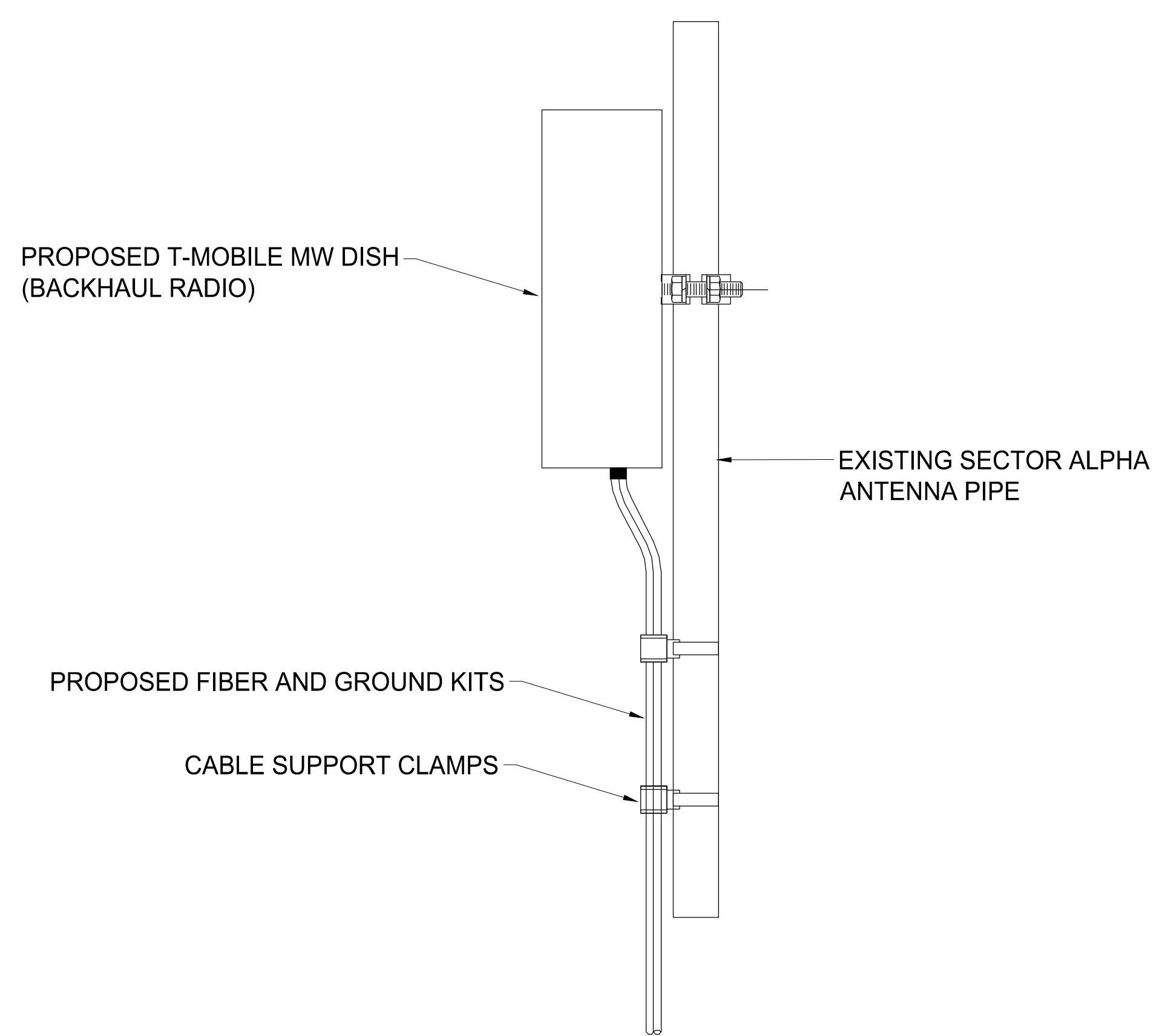


ANTENNA PLAN
N.T.S 1 LE-2



MANUFACTURER: FASTBACK
MODEL: IBR 1300
FOOTPRINT: 10.24"HX7.87"WX3.54"D
WEIGHT: 8.82 LBS

BACKHAUL RADIO SPECIFICATIONS
N.T.S 2 LE-2

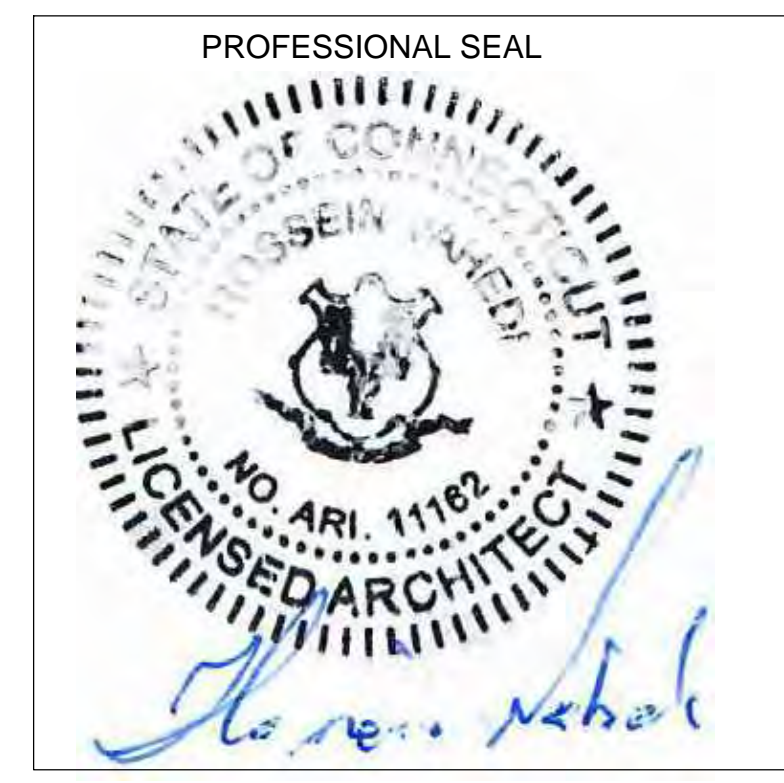


BACKHAUL RADIO MOUNTING DETAIL
N.T.S 3 LE-2

APPLICANT:
T-Mobile
T-MOBILE NORTHEAST LLC
35 GRIFFIN ROAD SOUTH
BLOOMFIELD, CT 06002
860-692-7100

PROJECT MANGER
NSS NORTHEAST
SITE SOLUTIONS
Turnkey Wireless Development
420 MAIN STREET, BLDG 4
STURBRIDGE, MA 01566
203-275-6669

CONSULTANT:
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Innovative design solutions
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REV	DESCRIPTION	DATE
A	PRELIMINARY	03/12/18

SITE NUMBER: CT11525A
SITE ADDRESS: 398 POMFRET STREET
POMFRET, CT 06258

SHEET TITLE:
LE-2: ANTENNA PLAN AND DETAILS

Exhibit D



Tower Engineering Solutions

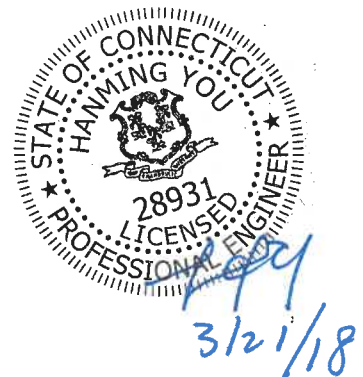
Phone (972) 483-0607, Fax (972) 975-9615
8445 Freeport Parkway, Suite 375, Irving, Texas 75063

Structural Analysis Report

Existing 168 ft. SUMMIT Monopole
Customer Name: SBA Communications Corp
Customer Site Number: CT02217-S
Customer Site Name: Pomfret School
Carrier Name: T-Mobile
Carrier Site ID / Name:
Site Location: 398 Pomfret Street
Pomfret, Connecticut
Windham County
Latitude: 41.890094
Longitude: -71.955008

Analysis Result:

Max Structural Usage: 54.6% [Pass]
Max Foundation Usage: 49.0% [Pass]
Additional Usage Caused by New Mount: N/A
Report Prepared By: Walter Velez





Tower Engineering Solutions

Phone (972) 483-0607, Fax (972) 975-9615
8445 Freeport Parkway, Suite 375, Irving, Texas 75063

Structural Analysis Report

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Latitude: 41.890094

Longitude: -71.955008

Analysis Result:

Max Structural Usage: 54.6% [Pass]

Max Foundation Usage: 49.0% [Pass]

Additional Usage Caused by New Mount: N/A

Report Prepared By: Walter Velez

Introduction

The purpose of this report is to summarize the analysis results on the 168 ft. SUMMIT 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	Original shaft section data prepared by Summit, LLC & Paul J. Ford and Company. Dated 11-23-1999. Job No 29299-802. Design No 5762. Previous structural report prepared by Tower Engineering Solutinos. Dated 10-21-2016. TES Project No 27027.
Foundation Drawing	Foundation mapping report prepared by FDH Engineering, Inc. Dated 08-21-2012. Project No 1201570EN1.
Geotechnical Report	Geotechnical report prepared by FDH Engineering, Inc. Dated 09-12-2012. Project No 1201570EG1.
Modification Drawings	N/A

Analysis Criteria

The rigorous analysis was performed in accordance with the requirements and stipulations of the ANSI/TIA/EIA 222-G. 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: (Based on IBC 2012)	Ultimate Design Wind Speed $V_{ult} = 130.0$ mph (3-Sec. Gust) Nominal Design Wind Speed $V_{asd} = 101.0$ mph (3-Sec. Gust)
Wind Speed with Ice:	50 mph (3-Sec. Gust) with 1" radial ice concurrent
Operational Wind Speed:	60 mph + 0" Radial ice
Standard/Codes:	ANSI/TIA/EIA 222-G, 2012 IBC & 2016 Connecticut State Building Code
Exposure Category:	C
Structure Class:	II
Topographic Category:	1
Crest Height:	0 ft.
Seismic Parameters:	$S_S = 0.172$, $S_1 = 0.063$

This structural analysis is based upon the tower being classified as a Structure Class 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	167.0	6	Decibel DB908H90E-M w/ Mount Pipe	Low Profile Platform	(6) 1 5/8"	Sprint
2	157.0	3	Commscope LNX-6514DS-AIM - Panel	(1) Low Profile Platform	(11) 1 5/8"; (1) 1 5/8" Fiber	Verizon
3		6	Commscope HBXX-6517DS-A2M - Panel			
4		3	Amphenol QUAD656COOOOx - Panel			
5		3	ALU RRH2x60-AWS - RRH			
6		3	ALU RRH2x60-700 - RRH			
7	147.0	1	RFS DB-T1-6Z-8AB-0Z - ODU	Low Profile Platform w/ Reinforcement Kit Site Pro PRK-1245	(12) 1 5/8"	T-Mobile
8		3	RFS APXV18-206516S-C-A20 - Panel			
9		3	Commscope LNX-6515DS-VTM - Panel			
10		3	Allen Telecom FE15501P77/75			
11		3	Ericsson KRY 112 144/1			
12		3	Kathrein 782 11056			

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	147.0	3	RFS APXV18-206516S-C-A20 - Panel	Low Profile Platform w/ Reinforcement Kit Site Pro PRK-1245	(12) 1 5/8"; (1) Fiber Line (2) CAT5e Cable	T-Mobile
14		3	Commscope LNX-6515DS-VTM - Panel			
15		3	Allen Telecom FE15501P77/75			
16		3	Ericsson KRY 112 144/1			
17		3	Kathrein 782 11056			
18		1	Fastback IBR1300 - Dish			

All transmission lines are considered running inside of the pole shafts.

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
Max. Usage:	54.6%	52.5%	49.7%
Pass/Fail	Pass	Pass	Pass

Foundations

	Moment (Kip-Ft)	Shear (Kips)	Axial (Kips)
Original Design Reactions	4750.0	37.5	38.0
Analysis Reactions	3553.8	31.2	49.1
Factored Reactions*	6412.5	50.6	51.3

* Per section 15.5.1 of the TIA-222-G standard, factored reactions were obtained by multiplying a 1.35 factor to the original design reactions.

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.

Operational Condition (Rigidity):

The maximum twist and sway of the microwave dishes under the operational wind speed as specified in the Analysis Criteria are listed in the table below:

Elevation (ft.)	Antenna / Dish	Carrier	Sway (Deg.)
147.0	Fastback IBR1300 - Dish	T-Mobile	1.025

It is recommended that the carriers review the twist and sway values of the microwave dishes.

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 ANSI/TIA-222-G standards, the 2012 IBC and the 2016 Connecticut State Building Code under the design basic wind speed 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 analysis is based on the presumption that the tower members and components along with any existing reinforcement items have been correctly and properly designed, manufactured, installed and maintained.
3. All the existing structural members were assumed to be in good condition with no physical damage or deterioration associated with corrosion.
4. An initial tension of 10% of the break strength on all the existing guy wires was assumed in all the structural analyses of guyed towers unless different values were provided by the client. **TES** cannot take responsibility for the deviations in the analysis results because of differences in the initial tension forces of the existing guy wires.
5. Secondary component or connection secondary components, welds and bolts are assumed to be able to carry their intended original design loads. **TES** cannot take responsibility for verification of the adequacy on the connections, bolts and welds present in the structure.
6. 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 EIA/TIA-222 standard or other codes, **TES** should be notified in writing and the applicable minimum values provided by the client.
7. 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.
8. 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.
9. If a feasibility analysis was performed, final acceptance of changed conditions shall be based upon a rigorous structural analysis.

Usage Diagram - Max Ratio 54.59% at 49.0ft

Structure: CT02217-S-SBA
Site Name: Pomfret School
Height: 168.00 (ft)
Base Elev: 0.000 (ft)

Code: EIA/TIA-222-G
Exposure: C
Gh: 1.1

3/21/2018



Page: 1

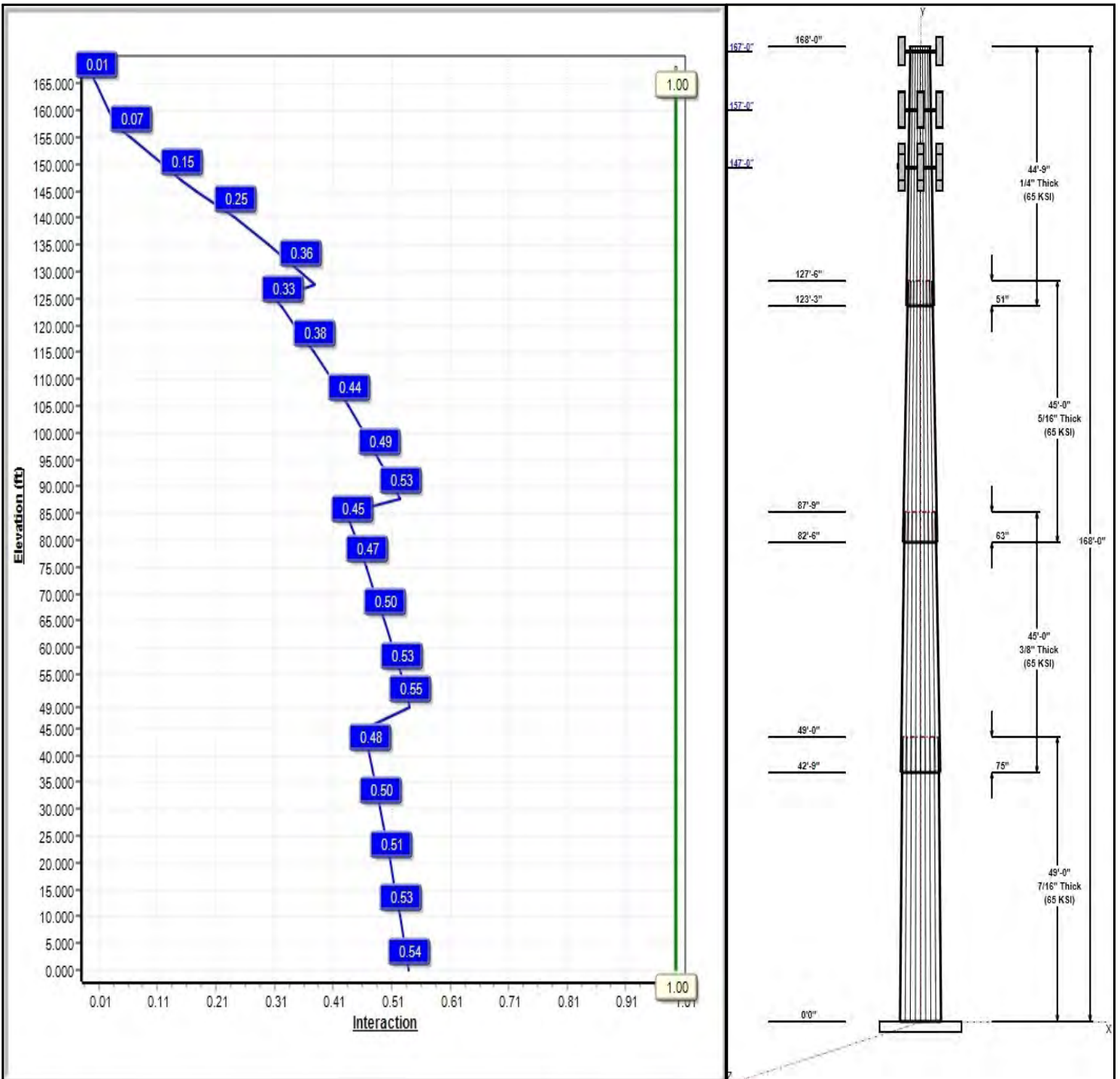
Dead Load Factor: 1.20
Wind Load Factor: 1.60

Load Case : 1.2D + 1.6W 101 mph Wind



Iterations: 25

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Structure: CT02217-S-SBA

Type: Tapered
Site Name: Pomfret School
Height: 168.00 (ft)
Base Elev: 0.00 (ft)

Base Shape: 18 Sided
Taper: 0.22003

3/21/2018

Page: 2



Shaft Properties

Seq	Length (ft)	Top (in)	Bottom (in)	Thick (in)	Joint Type	Taper	Grade (ksi)
1	49.00	48.31	59.09	0.438		0.22003	65
2	45.00	40.53	50.43	0.375	Slip	0.22003	65
3	45.00	32.41	42.31	0.313	Slip	0.22003	65
4	44.75	24.00	33.85	0.250	Slip	0.22003	65

Discrete Appurtenances

Attach Elev (ft)	Force Elev (ft)	Qty	Description	Carrier
168.00	170.50	1	Lightning Rod	---
167.00	167.00	6	Decibel DB908H90E-M w/	Sprint
167.00	167.00	1	Low Profile Platform	Sprint
157.00	157.00	3	Amphenol	Verizon
157.00	157.00	6	Commscope	Verizon
157.00	157.00	3	Commscope	Verizon
157.00	157.00	3	ALU RRH2x60-700	Verizon
157.00	157.00	3	ALU RRH2x60-AWS	Verizon
157.00	157.00	1	RFS DB-T1-6Z-8AB-0Z	Verizon
157.00	157.00	1	Low Profile Platform	Verizon
147.00	147.00	3	RFS	T-Mobile
147.00	147.00	3	Commscope	T-Mobile
147.00	147.00	3	Allen Telecom	T-Mobile
147.00	147.00	3	Ericsson KRY 112 144/1	T-Mobile
147.00	147.00	3	Kathrein 782 11056	T-Mobile
147.00	147.00	1	Fastback IBR1300	T-Mobile
147.00	147.00	1	Low Profile Platform w/	T-Mobile

Linear Appurtenances

Elev From (ft)	Elev To (ft)	Placement	Description	Carrier
3.00	168.00	Outside	Safety Cable	
3.00	168.00	Outside	Step bolts (ladder)	
3.00	167.00	Inside	1 5/8" Coax	Sprint
3.00	157.00	Inside	1 5/8" Coax	Verizon
3.00	157.00	Inside	1 5/8" Fiber	Verizon
3.00	147.00	Inside	1 5/8" Coax	T-Mobile
3.00	147.00	Inside	5/16" Coax	T-Mobile
3.00	147.00	Inside	CAT5e	T-Mobile
3.00	147.00	Inside	Fiber Line	T-Mobile

Anchor Bolts

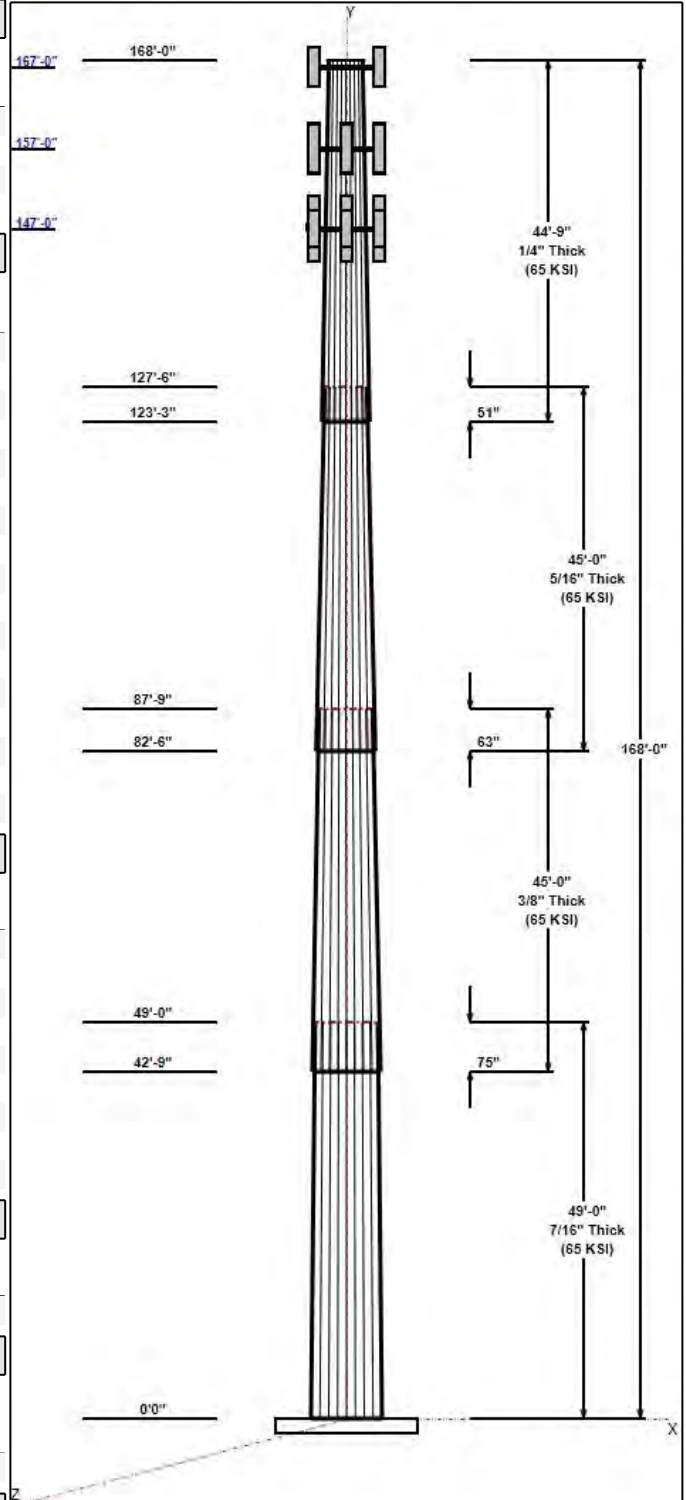
Qty	Specifications	Grade (ksi)	Arrangement
20	2.25" 18J	75.0	Cluster

Base Plate

Thickness (in)	Specifications (in)	Grade (ksi)	Geometry
3.0000	65.0	50.0	Clipped

Reactions

Load Case	Moment (FT-Kips)	Shear (Kips)	Axial (Kips)
1.2D + 1.6W 101 mph Wind	3553.8	31.2	49.1
0.9D + 1.6W 101 mph Wind	3521.5	31.2	36.8



Structure: CT02217-S-SBA

Type: Tapered
Site Name: Pomfret School
Height: 168.00 (ft)
Base Elev: 0.00 (ft)

Base Shape: 18 Sided
Taper: 0.22003

3/21/2018

Page: 3



1.2D + 1.0Di + 1.0Wi 50 mph Wind	1058.6	9.2	81.1
1.2D + 1.0E	220.3	1.7	49.2
0.9D + 1.0E	218.1	1.7	36.9
1.0D + 1.0W 60 mph Wind	779.7	6.9	41.0

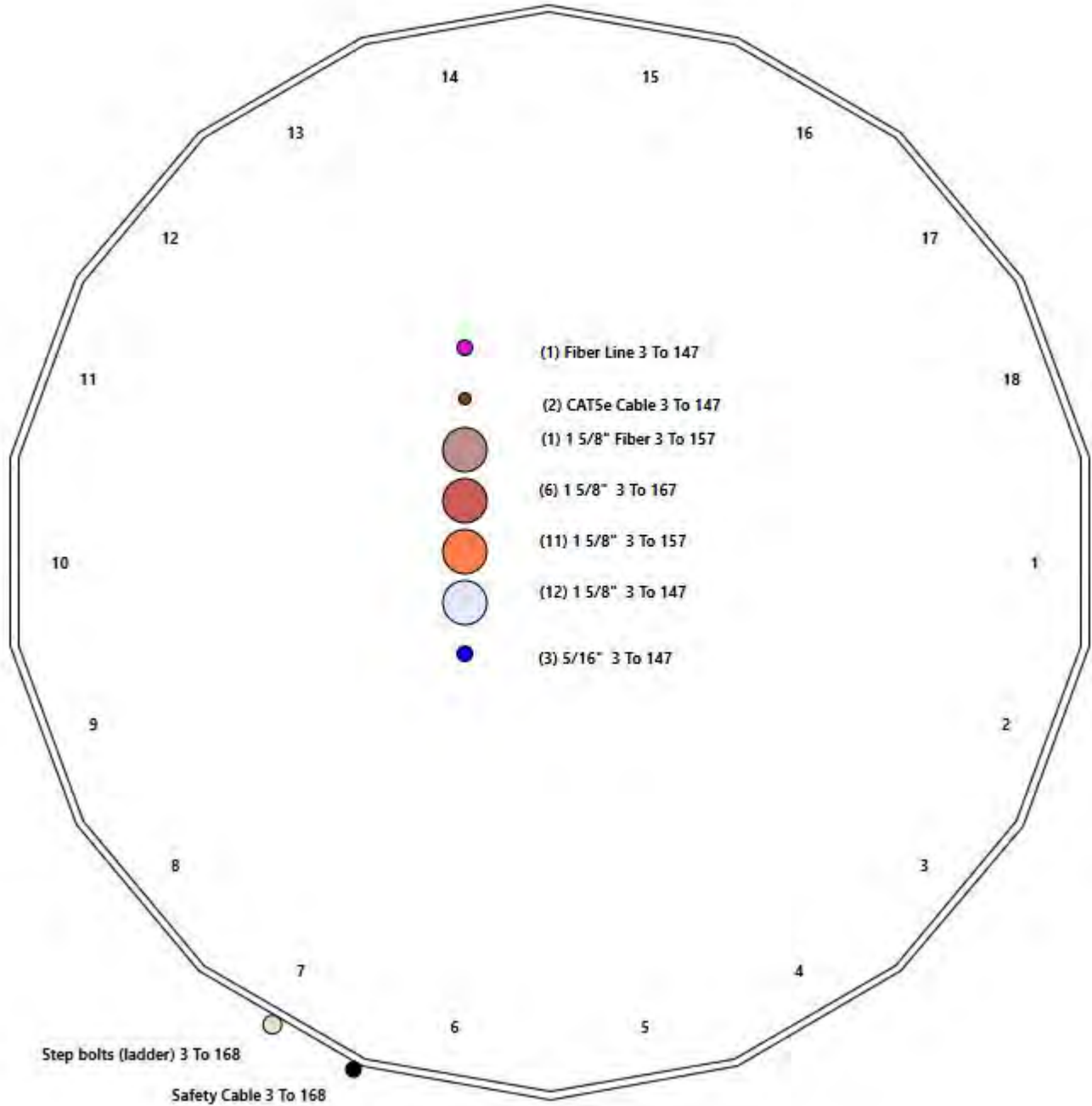
Structure: CT02217-S-SBA - Coax Line Placement

Type: Monopole
Site Name: Pomfret School
Height: 168.00 (ft)

3/21/2018



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Shaft Properties

Structure: CT02217-S-SBA	Code: EIA/TIA-222-G	3/21/2018
Site Name: Pomfret School	Exposure: C	
Height: 168.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



Page: 5

Sec. No.	Shape	Length (ft)	Thick (in)	Fy (ksi)	Joint Type	Overlap (in)	Weight (lb)
1	18	49.000	0.4375	65		0.00	12,331
2	18	45.000	0.3750	65	Slip	75.00	8,221
3	18	45.000	0.3125	65	Slip	63.00	5,627
4	18	44.750	0.2500	65	Slip	51.00	3,464
Total Shaft Weight:							29,644

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	59.09	0.00	81.44	35398.27	22.40	135.06	48.31	49.00	66.47	19246.0	18.06	110.4	0.220030
2	50.43	42.75	59.58	18863.19	22.30	134.49	40.53	87.75	47.80	9738.05	17.65	108.0	0.220030
3	42.31	82.50	41.66	9284.18	22.46	135.40	32.41	127.50	31.84	4144.35	16.88	103.7	0.220030
4	33.85	123.2	26.66	3801.54	22.46	135.39	24.00	168.00	18.84	1343.00	15.52	96.00	0.220030

Load Summary

Structure: CT02217-S-SBA	Code: EIA/TIA-222-G	3/21/2018
Site Name: Pomfret School	Exposure: C	
Height: 168.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



Page: 6

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	168.00	Lightning Rod	1	35.00	1.05	1.00	77.36	4.251	1.00	0.00	2.50
2	167.00	Decibel DB908H90E-M w/ Mount	6	42.00	3.89	0.74	183.02	5.342	0.74	0.00	0.00
3	167.00	Low Profile Platform	1	1500.00	22.00	1.00	3264.05	45.803	1.00	0.00	0.00
4	157.00	Amphenol QUAD656COOOOx	3	54.00	8.17	0.83	382.65	11.951	0.84	0.00	0.00
5	157.00	Commscope HBXX-6517DS-A2M	6	40.80	8.55	0.77	277.44	12.459	0.78	0.00	0.00
6	157.00	Commscope LNX-6514DS-AIM	3	38.80	8.17	0.83	274.94	11.951	0.84	0.00	0.00
7	157.00	ALU RRH2x60-700	3	60.00	2.23	0.67	153.19	3.652	0.68	0.00	0.00
8	157.00	ALU RRH2x60-AWS	3	60.00	3.50	0.67	176.92	4.557	0.68	0.00	0.00
9	157.00	RFS DB-T1-6Z-8AB-OZ	1	44.00	4.80	1.00	248.39	5.997	1.00	0.00	0.00
10	157.00	Low Profile Platform	1	1500.00	22.00	1.00	3253.19	45.656	1.00	0.00	0.00
11	147.00	RFS APXV18-206516S-C-A20	3	18.70	3.61	0.73	111.94	6.081	0.74	0.00	0.00
12	147.00	Commscope LNX-6515DS-VTM	3	50.30	11.47	0.80	359.28	15.796	0.81	0.00	0.00
13	147.00	Allen Telecom FE15501P77/75	3	17.50	0.54	0.67	48.82	1.311	0.68	0.00	0.00
14	147.00	Ericsson KRY 112 144/1	3	11.00	0.41	0.67	25.35	1.042	0.68	0.00	0.00
15	147.00	Kathrein 782 11056	3	1.80	0.28	0.67	7.82	0.814	0.68	0.00	0.00
16	147.00	Fastback IBR1300	1	8.82	0.67	0.67	32.40	1.132	0.67	0.00	0.00
17	147.00	Low Profile Platform w/ Reinf. Kit	1	1800.00	25.00	1.00	3890.03	52.867	1.00	0.00	0.00
Totals:			45	6,320.92			18,150.94				

Linear Appurtenances

Bottom Elev. (ft)	Top Elev. (ft)	Description	Exposed Width	Exposed
3.00	168.00	(1) Safety Cable	0.38	Outside
3.00	168.00	(1) Step bolts (ladder)	0.00	Outside
3.00	167.00	(6) 1 5/8" Coax	0.00	Inside
3.00	157.00	(11) 1 5/8" Coax	0.00	Inside
3.00	157.00	(1) 1 5/8" Fiber	0.00	Inside
3.00	147.00	(12) 1 5/8" Coax	0.00	Inside
3.00	147.00	(3) 5/16" Coax	0.00	Inside
3.00	147.00	(2) CAT5e	0.00	Inside
3.00	147.00	(1) Fiber Line	0.00	Inside

Shaft Section Properties

Structure: CT02217-S-SBA	Code: EIA/TIA-222-G	3/21/2018
Site Name: Pomfret School	Exposure: C	
Height: 168.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



Page: 7

Increment Length: 5 (ft)

Elev (ft)	Description	Thick (in)	Dia (in)	Area (in^2)	Ix (in^4)	W/t Ratio	D/t Ratio	Fpy (ksi)	S (in^3)	Weight (lb)
0.00		0.4375	59.090	81.443	35398.3	22.40	135.06	75.0	1179.	0.0
5.00		0.4375	57.990	79.916	33443.5	21.96	132.55	75.6	1135.	1372.7
10.00		0.4375	56.890	78.388	31562.0	21.52	130.03	76.1	1092.	1346.7
15.00		0.4375	55.790	76.860	29752.5	21.07	127.52	76.6	1050.	1320.7
20.00		0.4375	54.689	75.333	28013.5	20.63	125.00	77.1	1008.	1294.7
25.00		0.4375	53.589	73.805	26343.6	20.19	122.49	77.7	968.2	1268.7
30.00		0.4375	52.489	72.278	24741.4	19.74	119.98	78.2	928.4	1242.7
35.00		0.4375	51.389	70.750	23205.6	19.30	117.46	78.7	889.4	1216.7
40.00		0.4375	50.289	69.222	21734.6	18.86	114.95	79.2	851.3	1190.7
42.75	Bot - Section 2	0.4375	49.684	68.382	20952.8	18.61	113.56	79.5	830.6	643.8
45.00		0.4375	49.189	67.695	20327.2	18.41	112.43	79.7	813.9	974.8
49.00	Top - Section 1	0.3750	49.059	57.943	17350.9	21.66	130.82	0.0	0.0	1708.9
50.00		0.3750	48.839	57.682	17116.7	21.55	130.24	76.0	690.3	196.7
55.00		0.3750	47.738	56.372	15977.3	21.04	127.30	76.7	659.2	970.2
60.00		0.3750	46.638	55.063	14889.6	20.52	124.37	77.3	628.8	948.0
65.00		0.3750	45.538	53.753	13852.4	20.00	121.43	77.9	599.1	925.7
70.00		0.3750	44.438	52.444	12864.6	19.48	118.50	78.5	570.2	903.4
75.00		0.3750	43.338	51.135	11924.8	18.97	115.57	79.1	542.0	881.1
80.00		0.3750	42.238	49.825	11032.0	18.45	112.63	79.7	514.4	858.9
82.50	Bot - Section 3	0.3750	41.688	49.170	10602.8	18.19	111.17	80.0	501.0	421.1
85.00		0.3750	41.137	48.516	10184.9	17.93	109.70	80.3	487.6	767.6
87.75	Top - Section 2	0.3125	41.157	40.512	8539.0	21.81	131.70	0.0	0.0	832.5
90.00		0.3125	40.662	40.021	8232.3	21.53	130.12	76.1	398.8	308.3
95.00		0.3125	39.562	38.929	7577.1	20.91	126.60	76.8	377.2	671.6
100.00		0.3125	38.462	37.838	6957.6	20.29	123.08	77.5	356.3	653.1
105.00		0.3125	37.362	36.747	6372.9	19.67	119.56	78.3	336.0	634.5
110.00		0.3125	36.262	35.656	5821.9	19.05	116.04	79.0	316.2	615.9
115.00		0.3125	35.162	34.565	5303.6	18.43	112.52	79.7	297.1	597.4
120.00		0.3125	34.061	33.474	4817.0	17.81	109.00	80.5	278.5	578.8
123.25	Bot - Section 4	0.3125	33.346	32.764	4517.2	17.40	106.71	80.9	266.8	366.3
125.00		0.3125	32.961	32.382	4361.1	17.19	105.48	81.2	260.6	351.8
127.50	Top - Section 3	0.2500	32.911	25.916	3492.9	21.80	131.64	0.0	0.0	495.5
130.00		0.2500	32.361	25.479	3319.3	21.41	129.44	76.2	202.0	218.6
135.00		0.2500	31.261	24.606	2989.7	20.64	125.04	77.1	188.4	426.1
140.00		0.2500	30.161	23.733	2682.7	19.86	120.64	78.0	175.2	411.2
145.00		0.2500	29.061	22.860	2397.4	19.09	116.24	79.0	162.5	396.4
147.00		0.2500	28.621	22.511	2289.2	18.78	114.48	79.3	157.5	154.4
150.00		0.2500	27.961	21.988	2133.1	18.31	111.84	79.9	150.3	227.1
155.00		0.2500	26.860	21.115	1889.0	17.53	107.44	80.8	138.5	366.7
157.00		0.2500	26.420	20.765	1796.9	17.22	105.68	81.1	134.0	142.5
160.00		0.2500	25.760	20.242	1664.3	16.76	103.04	81.7	127.3	209.3
165.00		0.2500	24.660	19.369	1458.1	15.98	98.64	82.5	116.5	337.0
167.00		0.2500	24.220	19.020	1380.7	15.67	96.88	82.5	112.3	130.6
168.00		0.2500	24.000	18.845	1343.0	15.52	96.00	82.5	110.2	64.4

29643.8

Wind Loading - Shaft

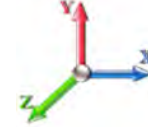
Structure: CT02217-S-SBA	Code: EIA/TIA-222-G	3/21/2018
Site Name: Pomfret School	Exposure: C	
Height: 168.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Page: 8
	Struct Class: II	



Load Case: 1.2D + 1.6W 101 mph Wind

Iterations 25

Dead Load Factor 1.20
Wind Load Factor 1.60



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		1.00	0.85	21.088	23.20	465.60	0.650	0.000	0.00	0.000	0.00	0.0	0.0	0.0
5.00		1.00	0.85	21.088	23.20	456.93	0.650	0.000	5.00	24.768	16.10	597.5	0.0	1647.2
10.00		1.00	0.85	21.088	23.20	448.26	0.650	0.000	5.00	24.302	15.80	586.3	0.0	1616.0
15.00		1.00	0.85	21.088	23.20	439.59	0.650	0.000	5.00	23.837	15.49	575.0	0.0	1584.8
20.00		1.00	0.90	22.375	24.61	443.88	0.650	0.000	5.00	23.372	15.19	598.2	0.0	1553.6
25.00		1.00	0.95	23.451	25.80	445.29	0.650	0.000	5.00	22.906	14.89	614.5	0.0	1522.5
30.00		1.00	0.98	24.369	26.81	444.60	0.650	0.000	5.00	22.441	14.59	625.6	0.0	1491.3
35.00		1.00	1.01	25.172	27.69	442.40	0.650	0.000	5.00	21.975	14.28	632.8	0.0	1460.1
40.00		1.00	1.04	25.890	28.48	439.06	0.650	0.000	5.00	21.510	13.98	637.1	0.0	1428.9
42.75	Bot - Section 2	1.00	1.06	26.255	28.88	436.82	0.650	0.000	2.75	11.632	7.56	349.4	0.0	772.6
45.00		1.00	1.07	26.540	29.19	434.81	0.650	0.000	2.25	9.555	6.21	290.1	0.0	1169.8
49.00	Top - Section 1	1.00	1.09	27.020	29.72	430.88	0.650	0.000	4.00	16.754	10.89	517.9	0.0	2050.7
50.00		1.00	1.09	27.135	29.85	436.53	0.650	0.000	1.00	4.142	2.69	128.6	0.0	236.1
55.00		1.00	1.12	27.685	30.45	431.00	0.650	0.000	5.00	20.431	13.28	647.1	0.0	1164.3
60.00		1.00	1.14	28.197	31.02	424.94	0.650	0.000	5.00	19.965	12.98	644.0	0.0	1137.6
65.00		1.00	1.16	28.676	31.54	418.43	0.650	0.000	5.00	19.500	12.67	639.7	0.0	1110.8
70.00		1.00	1.17	29.127	32.04	411.52	0.650	0.000	5.00	19.034	12.37	634.2	0.0	1084.1
75.00		1.00	1.19	29.553	32.51	404.25	0.650	0.000	5.00	18.569	12.07	627.8	0.0	1057.4
80.00		1.00	1.21	29.958	32.95	396.68	0.650	0.000	5.00	18.103	11.77	620.4	0.0	1030.6
82.50	Bot - Section 3	1.00	1.22	30.152	33.17	392.78	0.650	0.000	2.50	8.877	5.77	306.2	0.0	505.3
85.00		1.00	1.22	30.342	33.38	388.82	0.650	0.000	2.50	8.893	5.78	308.7	0.0	921.1
87.75	Top - Section 2	1.00	1.23	30.546	33.60	384.39	0.650	0.000	2.75	9.648	6.27	337.1	0.0	999.0
90.00		1.00	1.24	30.710	33.78	386.65	0.650	0.000	2.25	7.789	5.06	273.6	0.0	369.9
95.00		1.00	1.25	31.061	34.17	378.33	0.650	0.000	5.00	16.971	11.03	603.1	0.0	805.9
100.00		1.00	1.27	31.399	34.54	369.80	0.650	0.000	5.00	16.506	10.73	592.9	0.0	783.7
105.00		1.00	1.28	31.723	34.89	361.08	0.650	0.000	5.00	16.040	10.43	582.1	0.0	761.4
110.00		1.00	1.29	32.035	35.24	352.16	0.650	0.000	5.00	15.575	10.12	570.8	0.0	739.1
115.00		1.00	1.30	32.336	35.57	343.08	0.650	0.000	5.00	15.109	9.82	558.9	0.0	716.8
120.00		1.00	1.32	32.627	35.89	333.84	0.650	0.000	5.00	14.644	9.52	546.6	0.0	694.6
123.25	Bot - Section 4	1.00	1.32	32.811	36.09	327.75	0.650	0.000	3.25	9.269	6.02	347.9	0.0	439.5
125.00		1.00	1.33	32.909	36.20	324.45	0.650	0.000	1.75	4.984	3.24	187.6	0.0	422.2
127.50	Top - Section 3	1.00	1.33	33.046	36.35	319.70	0.650	0.000	2.50	7.020	4.56	265.4	0.0	594.6
130.00		1.00	1.34	33.182	36.50	319.86	0.650	0.000	2.50	6.904	4.49	262.1	0.0	262.3
135.00		1.00	1.35	33.446	36.79	310.21	0.650	0.000	5.00	13.459	8.75	515.0	0.0	511.3
140.00		1.00	1.36	33.703	37.07	300.45	0.650	0.000	5.00	12.994	8.45	501.0	0.0	493.5
145.00		1.00	1.37	33.953	37.35	290.56	0.650	0.000	5.00	12.528	8.14	486.6	0.0	475.6
147.00	Appurtenance(s)	1.00	1.37	34.051	37.46	286.57	0.650	0.000	2.00	4.881	3.17	190.1	0.0	185.3
150.00		1.00	1.38	34.196	37.62	280.56	0.650	0.000	3.00	7.182	4.67	281.0	0.0	272.6
155.00		1.00	1.39	34.433	37.88	270.45	0.650	0.000	5.00	11.597	7.54	456.8	0.0	440.0
157.00	Appurtenance(s)	1.00	1.39	34.526	37.98	266.38	0.650	0.000	2.00	4.509	2.93	178.1	0.0	171.0
160.00		1.00	1.40	34.664	38.13	260.24	0.650	0.000	3.00	6.623	4.31	262.6	0.0	251.2
165.00		1.00	1.41	34.890	38.38	249.94	0.650	0.000	5.00	10.666	6.93	425.7	0.0	404.4
167.00	Appurtenance(s)	1.00	1.41	34.978	38.48	245.79	0.650	0.000	2.00	4.136	2.69	165.5	0.0	156.8
168.00	Appurtenance(s)	1.00	1.41	35.022	38.52	243.71	0.650	0.000	1.00	2.040	1.33	81.7	0.0	77.3
Totals:									168.00			19,253.6		35,572.5

Discrete Appurtenance Forces

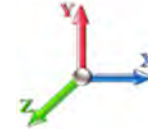
Structure: CT02217-S-SBA	Code: EIA/TIA-222-G	3/21/2018
Site Name: Pomfret School	Exposure: C	
Height: 168.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Load Case: 1.2D + 1.6W 101 mph Wind

Dead Load Factor 1.20
Wind Load Factor 1.60



Iterations 25

No.	Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	CaAa 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	168.00	Lightning Rod	1	35.131	38.644	1.00	1.00	1.05	42.00	0.000	2.500	64.92	0.00	162.31
2	167.00	Low Profile Platform	1	34.978	38.476	1.00	1.00	22.00	1800.00	0.000	0.000	1354.35	0.00	0.00
3	167.00	Decibel DB908H90E-M w/	6	34.978	38.476	0.74	1.00	17.27	302.40	0.000	0.000	1063.27	0.00	0.00
4	157.00	Low Profile Platform	1	34.526	37.979	1.00	1.00	22.00	1800.00	0.000	0.000	1336.86	0.00	0.00
5	157.00	RFS DB-T1-6Z-8AB-OZ	1	34.526	37.979	1.00	1.00	4.80	52.80	0.000	0.000	291.68	0.00	0.00
6	157.00	ALU RRH2x60-AWS	3	34.526	37.979	0.54	0.80	5.63	216.00	0.000	0.000	341.99	0.00	0.00
7	157.00	ALU RRH2x60-700	3	34.526	37.979	0.54	0.80	3.59	216.00	0.000	0.000	217.90	0.00	0.00
8	157.00	Commscope	3	34.526	37.979	0.66	0.80	16.27	139.68	0.000	0.000	988.95	0.00	0.00
9	157.00	Commscope	6	34.526	37.979	0.62	0.80	31.60	293.76	0.000	0.000	1920.27	0.00	0.00
10	157.00	Amphenol	3	34.526	37.979	0.66	0.80	16.27	194.40	0.000	0.000	988.95	0.00	0.00
11	147.00	Low Profile Platform w/	1	34.051	37.456	1.00	1.00	25.00	2160.00	0.000	0.000	1498.26	0.00	0.00
12	147.00	Fastback IBR1300	1	34.051	37.456	0.54	0.80	0.36	10.58	0.000	0.000	21.52	0.00	0.00
13	147.00	Kathrein 782 11056	3	34.051	37.456	0.54	0.80	0.45	6.48	0.000	0.000	26.98	0.00	0.00
14	147.00	Ericsson KRY 112 144/1	3	34.051	37.456	0.54	0.80	0.66	39.60	0.000	0.000	39.51	0.00	0.00
15	147.00	Allen Telecom	3	34.051	37.456	0.54	0.80	0.87	63.00	0.000	0.000	52.04	0.00	0.00
16	147.00	Commscope	3	34.051	37.456	0.64	0.80	22.02	181.08	0.000	0.000	1319.81	0.00	0.00
17	147.00	RFS	3	34.051	37.456	0.58	0.80	6.32	67.32	0.000	0.000	379.04	0.00	0.00

Totals: **7,585.10** **11,906.31**

Total Applied Force Summary

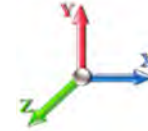
Structure: CT02217-S-SBA	Code: EIA/TIA-222-G	3/21/2018
Site Name: Pomfret School	Exposure: C	
Height: 168.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Load Case: 1.2D + 1.6W 101 mph Wind

Dead Load Factor 1.20
Wind Load Factor 1.60



Iterations 25

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
5.00		597.50	1726.20	0.00	0.00
10.00		586.27	1813.50	0.00	0.00
15.00		575.05	1782.31	0.00	0.00
20.00		598.23	1751.12	0.00	0.00
25.00		614.52	1719.93	0.00	0.00
30.00		625.59	1688.74	0.00	0.00
35.00		632.82	1657.55	0.00	0.00
40.00		637.08	1626.36	0.00	0.00
42.75		349.37	881.20	0.00	0.00
45.00		290.11	1258.65	0.00	0.00
49.00		517.89	2208.65	0.00	0.00
50.00		128.58	275.56	0.00	0.00
55.00		647.08	1361.78	0.00	0.00
60.00		644.02	1335.04	0.00	0.00
65.00		639.70	1308.31	0.00	0.00
70.00		634.25	1281.58	0.00	0.00
75.00		627.79	1254.84	0.00	0.00
80.00		620.43	1228.11	0.00	0.00
82.50		306.21	604.03	0.00	0.00
85.00		308.69	1019.81	0.00	0.00
87.75		337.14	1107.64	0.00	0.00
90.00		273.64	458.81	0.00	0.00
95.00		603.06	1003.42	0.00	0.00
100.00		592.89	981.15	0.00	0.00
105.00		582.12	958.87	0.00	0.00
110.00		570.79	936.59	0.00	0.00
115.00		558.93	914.31	0.00	0.00
120.00		546.59	892.03	0.00	0.00
123.25		347.92	567.88	0.00	0.00
125.00		187.62	491.28	0.00	0.00
127.50		265.41	693.31	0.00	0.00
130.00		262.08	361.07	0.00	0.00
135.00		514.98	708.77	0.00	0.00
140.00		500.99	690.95	0.00	0.00
145.00		486.62	673.12	0.00	0.00
147.00	(17) attachments	3527.30	2792.32	0.00	0.00
150.00		280.96	344.89	0.00	0.00
155.00		456.83	560.56	0.00	0.00
157.00	(20) attachments	6264.69	3131.87	0.00	0.00
160.00		262.65	278.36	0.00	0.00
165.00		425.73	449.67	0.00	0.00
167.00	(7) attachments	2583.13	2277.28	0.00	0.00
168.00	(1) attachments	146.66	120.88	0.00	162.31
Totals:		31,159.89	49,178.31	0.00	162.31

Linear Appurtenance Segment Forces (Factored)

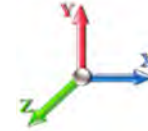
Structure: CT02217-S-SBA	Code: EIA/TIA-222-G	3/21/2018
Site Name: Pomfret School	Exposure: C	
Height: 168.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Load Case: 1.2D + 1.6W 101 mph Wind

Dead Load Factor 1.20
Wind Load Factor 1.60



Iterations 25

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)
5.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.003	0.000	21.088	0.00	0.66
5.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.003	0.000	21.088	0.00	2.50
10.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.007	0.000	21.088	0.00	1.64
10.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.007	0.000	21.088	0.00	6.24
15.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.007	0.000	21.088	0.00	1.64
15.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.007	0.000	21.088	0.00	6.24
20.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.007	0.000	22.375	0.00	1.64
20.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.007	0.000	22.375	0.00	6.24
25.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.007	0.000	23.451	0.00	1.64
25.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.007	0.000	23.451	0.00	6.24
30.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.007	0.000	24.369	0.00	1.64
30.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.007	0.000	24.369	0.00	6.24
35.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.007	0.000	25.172	0.00	1.64
35.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.007	0.000	25.172	0.00	6.24
40.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.007	0.000	25.890	0.00	1.64
40.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.007	0.000	25.890	0.00	6.24
42.75	Safety Cable	Yes	2.75	0.000	0.38	0.09	0.00	0.007	0.000	26.255	0.00	0.90
42.75	Step bolts (ladder)	Yes	2.75	0.000	0.00	0.00	0.00	0.007	0.000	26.255	0.00	3.43
45.00	Safety Cable	Yes	2.25	0.000	0.38	0.07	0.00	0.008	0.000	26.540	0.00	0.74
45.00	Step bolts (ladder)	Yes	2.25	0.000	0.00	0.00	0.00	0.008	0.000	26.540	0.00	2.81
49.00	Safety Cable	Yes	4.00	0.000	0.38	0.13	0.00	0.008	0.000	27.020	0.00	1.31
49.00	Step bolts (ladder)	Yes	4.00	0.000	0.00	0.00	0.00	0.008	0.000	27.020	0.00	4.99
50.00	Safety Cable	Yes	1.00	0.000	0.38	0.03	0.00	0.008	0.000	27.135	0.00	0.33
50.00	Step bolts (ladder)	Yes	1.00	0.000	0.00	0.00	0.00	0.008	0.000	27.135	0.00	1.25
55.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.008	0.000	27.685	0.00	1.64
55.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.008	0.000	27.685	0.00	6.24
60.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.008	0.000	28.197	0.00	1.64
60.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.008	0.000	28.197	0.00	6.24
65.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.008	0.000	28.676	0.00	1.64
65.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.008	0.000	28.676	0.00	6.24
70.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.008	0.000	29.127	0.00	1.64
70.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.008	0.000	29.127	0.00	6.24
75.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.009	0.000	29.553	0.00	1.64
75.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.009	0.000	29.553	0.00	6.24
80.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.009	0.000	29.958	0.00	1.64
80.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.009	0.000	29.958	0.00	6.24
82.50	Safety Cable	Yes	2.50	0.000	0.38	0.08	0.00	0.009	0.000	30.152	0.00	0.82
82.50	Step bolts (ladder)	Yes	2.50	0.000	0.00	0.00	0.00	0.009	0.000	30.152	0.00	3.12
85.00	Safety Cable	Yes	2.50	0.000	0.38	0.08	0.00	0.009	0.000	30.342	0.00	0.82
85.00	Step bolts (ladder)	Yes	2.50	0.000	0.00	0.00	0.00	0.009	0.000	30.342	0.00	3.12
87.75	Safety Cable	Yes	2.75	0.000	0.38	0.09	0.00	0.009	0.000	30.546	0.00	0.90
87.75	Step bolts (ladder)	Yes	2.75	0.000	0.00	0.00	0.00	0.009	0.000	30.546	0.00	3.43
90.00	Safety Cable	Yes	2.25	0.000	0.38	0.07	0.00	0.009	0.000	30.710	0.00	0.74
90.00	Step bolts (ladder)	Yes	2.25	0.000	0.00	0.00	0.00	0.009	0.000	30.710	0.00	2.81
95.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.009	0.000	31.061	0.00	1.64
95.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.009	0.000	31.061	0.00	6.24
100.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.010	0.000	31.399	0.00	1.64

Linear Appurtenance Segment Forces (Factored)

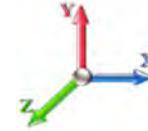
Structure: CT02217-S-SBA	Code: EIA/TIA-222-G	3/21/2018
Site Name: Pomfret School	Exposure: C	
Height: 168.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Load Case: 1.2D + 1.6W 101 mph Wind

Dead Load Factor 1.20
Wind Load Factor 1.60



Iterations 25

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)
100.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.010	0.000	31.399	0.00	6.24
105.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.010	0.000	31.723	0.00	1.64
105.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.010	0.000	31.723	0.00	6.24
110.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.010	0.000	32.035	0.00	1.64
110.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.010	0.000	32.035	0.00	6.24
115.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.010	0.000	32.336	0.00	1.64
115.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.010	0.000	32.336	0.00	6.24
120.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.011	0.000	32.627	0.00	1.64
120.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.011	0.000	32.627	0.00	6.24
123.25	Safety Cable	Yes	3.25	0.000	0.38	0.10	0.00	0.011	0.000	32.811	0.00	1.06
123.25	Step bolts (ladder)	Yes	3.25	0.000	0.00	0.00	0.00	0.011	0.000	32.811	0.00	4.06
125.00	Safety Cable	Yes	1.75	0.000	0.38	0.06	0.00	0.011	0.000	32.909	0.00	0.57
125.00	Step bolts (ladder)	Yes	1.75	0.000	0.00	0.00	0.00	0.011	0.000	32.909	0.00	2.18
127.50	Safety Cable	Yes	2.50	0.000	0.38	0.08	0.00	0.011	0.000	33.046	0.00	0.82
127.50	Step bolts (ladder)	Yes	2.50	0.000	0.00	0.00	0.00	0.011	0.000	33.046	0.00	3.12
130.00	Safety Cable	Yes	2.50	0.000	0.38	0.08	0.00	0.011	0.000	33.182	0.00	0.82
130.00	Step bolts (ladder)	Yes	2.50	0.000	0.00	0.00	0.00	0.011	0.000	33.182	0.00	3.12
135.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.012	0.000	33.446	0.00	1.64
135.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.012	0.000	33.446	0.00	6.24
140.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.012	0.000	33.703	0.00	1.64
140.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.012	0.000	33.703	0.00	6.24
145.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.013	0.000	33.953	0.00	1.64
145.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.013	0.000	33.953	0.00	6.24
147.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.013	0.000	34.051	0.00	0.66
147.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.013	0.000	34.051	0.00	2.50
150.00	Safety Cable	Yes	3.00	0.000	0.38	0.10	0.00	0.013	0.000	34.196	0.00	0.98
150.00	Step bolts (ladder)	Yes	3.00	0.000	0.00	0.00	0.00	0.013	0.000	34.196	0.00	3.74
155.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.014	0.000	34.433	0.00	1.64
155.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.014	0.000	34.433	0.00	6.24
157.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.014	0.000	34.526	0.00	0.66
157.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.014	0.000	34.526	0.00	2.50
160.00	Safety Cable	Yes	3.00	0.000	0.38	0.10	0.00	0.014	0.000	34.664	0.00	0.98
160.00	Step bolts (ladder)	Yes	3.00	0.000	0.00	0.00	0.00	0.014	0.000	34.664	0.00	3.74
165.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.015	0.000	34.890	0.00	1.64
165.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.015	0.000	34.890	0.00	6.24
167.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.015	0.000	34.978	0.00	0.66
167.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.015	0.000	34.978	0.00	2.50
168.00	Safety Cable	Yes	1.00	0.000	0.38	0.03	0.00	0.016	0.000	35.022	0.00	0.33
168.00	Step bolts (ladder)	Yes	1.00	0.000	0.00	0.00	0.00	0.016	0.000	35.022	0.00	1.25
Totals:											0.0	260.0

Calculated Forces

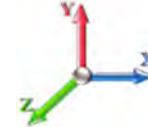
Structure: CT02217-S-SBA	Code: EIA/TIA-222-G	3/21/2018
Site Name: Pomfret School	Exposure: C	
Height: 168.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



Load Case: 1.2D + 1.6W 101 mph Wind

Iterations 25

Dead Load Factor 1.20
Wind Load Factor 1.60



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	-49.14	-31.22	0.00	-3553.8	0.00	3553.83	5501.01	2750.51	13262.9	6641.33	0.00	0.000	0.000	0.544
5.00	-47.34	-30.74	0.00	-3397.7	0.00	3397.73	5435.34	2717.67	12856.9	6438.04	0.08	-0.140	0.000	0.537
10.00	-45.45	-30.26	0.00	-3244.0	0.00	3244.04	5368.23	2684.11	12453.6	6236.09	0.30	-0.281	0.000	0.529
15.00	-43.60	-29.78	0.00	-3092.7	0.00	3092.76	5299.69	2649.84	12053.2	6035.57	0.67	-0.424	0.000	0.521
20.00	-41.78	-29.27	0.00	-2943.8	0.00	2943.86	5229.71	2614.86	11655.8	5836.57	1.19	-0.568	0.000	0.512
25.00	-39.99	-28.74	0.00	-2797.4	0.00	2797.49	5158.30	2579.15	11261.6	5639.20	1.86	-0.714	0.000	0.504
30.00	-38.24	-28.19	0.00	-2653.7	0.00	2653.79	5085.46	2542.73	10870.9	5443.55	2.69	-0.861	0.000	0.495
35.00	-36.52	-27.63	0.00	-2512.8	0.00	2512.83	5011.18	2505.59	10483.8	5249.72	3.67	-1.010	0.000	0.486
40.00	-34.85	-27.03	0.00	-2374.7	0.00	2374.70	4935.46	2467.73	10100.6	5057.82	4.81	-1.159	0.000	0.477
42.75	-33.94	-26.71	0.00	-2300.3	0.00	2300.37	4893.21	2446.61	9891.54	4953.12	5.50	-1.243	0.000	0.471
45.00	-32.65	-26.44	0.00	-2240.2	0.00	2240.28	4858.32	2429.16	9721.41	4867.93	6.11	-1.313	0.000	0.467
49.00	-30.42	-25.91	0.00	-2134.5	0.00	2134.50	3959.59	1979.80	7922.06	3966.92	7.26	-1.435	0.000	0.546
50.00	-30.10	-25.83	0.00	-2108.5	0.00	2108.59	3948.01	1974.01	7862.92	3937.31	7.56	-1.467	0.000	0.543
55.00	-28.68	-25.23	0.00	-1979.4	0.00	1979.43	3889.26	1944.63	7568.72	3789.99	9.19	-1.637	0.000	0.530
60.00	-27.29	-24.63	0.00	-1853.2	0.00	1853.26	3829.07	1914.54	7277.15	3643.98	11.00	-1.807	0.000	0.516
65.00	-25.93	-24.03	0.00	-1730.1	0.00	1730.10	3767.45	1883.72	6988.40	3499.39	12.98	-1.978	0.000	0.501
70.00	-24.61	-23.42	0.00	-1609.9	0.00	1609.97	3704.39	1852.20	6702.67	3356.32	15.14	-2.150	0.000	0.486
75.00	-23.31	-22.81	0.00	-1492.8	0.00	1492.87	3639.90	1819.95	6420.16	3214.85	17.49	-2.321	0.000	0.471
80.00	-22.06	-22.19	0.00	-1378.8	0.00	1378.81	3573.98	1786.99	6141.06	3075.10	20.01	-2.493	0.000	0.455
82.50	-21.43	-21.89	0.00	-1323.3	0.00	1323.33	3540.48	1770.24	6002.85	3005.89	21.34	-2.580	0.000	0.446
85.00	-20.40	-21.57	0.00	-1268.6	0.00	1268.60	3506.62	1753.31	5865.57	2937.15	22.71	-2.667	0.000	0.438
87.75	-19.27	-21.21	0.00	-1209.2	0.00	1209.28	2761.71	1380.86	4636.01	2321.45	24.28	-2.762	0.000	0.528
90.00	-18.78	-20.96	0.00	-1161.5	0.00	1161.57	2740.07	1370.04	4543.51	2275.13	25.60	-2.840	0.000	0.518
95.00	-17.74	-20.36	0.00	-1056.7	0.00	1056.78	2690.94	1345.47	4339.45	2172.95	28.67	-3.031	0.000	0.493
100.00	-16.73	-19.77	0.00	-954.96	0.00	954.96	2640.38	1320.19	4137.62	2071.89	31.95	-3.220	0.000	0.467
105.00	-15.74	-19.19	0.00	-856.10	0.00	856.10	2588.38	1294.19	3938.22	1972.04	35.42	-3.405	0.000	0.440
110.00	-14.79	-18.61	0.00	-760.17	0.00	760.17	2534.95	1267.48	3741.44	1873.50	39.08	-3.586	0.000	0.412
115.00	-13.86	-18.03	0.00	-667.15	0.00	667.15	2480.09	1240.04	3547.48	1776.38	42.93	-3.760	0.000	0.381
120.00	-12.96	-17.46	0.00	-577.00	0.00	577.00	2423.79	1211.90	3356.53	1680.76	46.96	-3.927	0.000	0.349
123.25	-12.40	-17.09	0.00	-520.27	0.00	520.27	2386.43	1193.21	3234.12	1619.46	49.67	-4.032	0.000	0.327
125.00	-11.90	-16.88	0.00	-490.37	0.00	490.37	2366.06	1183.03	3168.79	1586.75	51.15	-4.088	0.000	0.314
127.50	-11.20	-16.58	0.00	-448.17	0.00	448.17	1766.99	883.49	2371.88	1187.70	53.31	-4.165	0.000	0.384
130.00	-10.83	-16.31	0.00	-406.73	0.00	406.73	1747.69	873.85	2306.16	1154.80	55.51	-4.238	0.000	0.359
135.00	-10.12	-15.77	0.00	-325.16	0.00	325.16	1708.02	854.01	2176.01	1089.62	60.03	-4.395	0.000	0.305
140.00	-9.44	-15.24	0.00	-246.31	0.00	246.31	1666.92	833.46	2047.71	1025.37	64.71	-4.531	0.000	0.246
145.00	-8.79	-14.71	0.00	-170.11	0.00	170.11	1624.39	812.19	1921.45	962.15	69.51	-4.641	0.000	0.183
147.00	-6.28	-10.97	0.00	-140.69	0.00	140.69	1606.97	803.49	1871.57	937.18	71.46	-4.678	0.000	0.154
150.00	-5.95	-10.67	0.00	-107.77	0.00	107.77	1580.42	790.21	1797.44	900.06	74.42	-4.724	0.000	0.124
155.00	-5.43	-10.17	0.00	-54.42	0.00	54.42	1535.02	767.51	1675.88	839.18	79.39	-4.778	0.000	0.069
157.00	-2.83	-3.67	0.00	-34.08	0.00	34.08	1516.46	758.23	1627.98	815.20	81.39	-4.792	0.000	0.044
160.00	-2.57	-3.38	0.00	-23.08	0.00	23.08	1488.18	744.09	1556.95	779.63	84.41	-4.805	0.000	0.031
165.00	-2.16	-2.92	0.00	-6.16	0.00	6.16	1439.00	719.50	1439.93	721.04	89.44	-4.818	0.000	0.010
167.00	-0.11	-0.16	0.00	-0.32	0.00	0.32	1413.06	706.53	1388.23	695.14	91.46	-4.819	0.000	0.001
168.00	0.00	-0.15	0.00	-0.16	0.00	0.16	1400.09	700.04	1362.73	682.38	92.46	-4.819	0.000	0.000

Wind Loading - Shaft

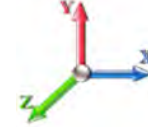
Structure: CT02217-S-SBA	Code: EIA/TIA-222-G	3/21/2018
Site Name: Pomfret School	Exposure: C	
Height: 168.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



Load Case: 0.9D + 1.6W 101 mph Wind

Iterations 25

Dead Load Factor 0.90
Wind Load Factor 1.60



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		1.00	0.85	21.088	23.20	465.60	0.650	0.000	0.00	0.000	0.00	0.0	0.0	0.0
5.00		1.00	0.85	21.088	23.20	456.93	0.650	0.000	5.00	24.768	16.10	597.5	0.0	1235.4
10.00		1.00	0.85	21.088	23.20	448.26	0.650	0.000	5.00	24.302	15.80	586.3	0.0	1212.0
15.00		1.00	0.85	21.088	23.20	439.59	0.650	0.000	5.00	23.837	15.49	575.0	0.0	1188.6
20.00		1.00	0.90	22.375	24.61	443.88	0.650	0.000	5.00	23.372	15.19	598.2	0.0	1165.2
25.00		1.00	0.95	23.451	25.80	445.29	0.650	0.000	5.00	22.906	14.89	614.5	0.0	1141.8
30.00		1.00	0.98	24.369	26.81	444.60	0.650	0.000	5.00	22.441	14.59	625.6	0.0	1118.4
35.00		1.00	1.01	25.172	27.69	442.40	0.650	0.000	5.00	21.975	14.28	632.8	0.0	1095.1
40.00		1.00	1.04	25.890	28.48	439.06	0.650	0.000	5.00	21.510	13.98	637.1	0.0	1071.7
42.75	Bot - Section 2	1.00	1.06	26.255	28.88	436.82	0.650	0.000	2.75	11.632	7.56	349.4	0.0	579.4
45.00		1.00	1.07	26.540	29.19	434.81	0.650	0.000	2.25	9.555	6.21	290.1	0.0	877.3
49.00	Top - Section 1	1.00	1.09	27.020	29.72	430.88	0.650	0.000	4.00	16.754	10.89	517.9	0.0	1538.0
50.00		1.00	1.09	27.135	29.85	436.53	0.650	0.000	1.00	4.142	2.69	128.6	0.0	177.1
55.00		1.00	1.12	27.685	30.45	431.00	0.650	0.000	5.00	20.431	13.28	647.1	0.0	873.2
60.00		1.00	1.14	28.197	31.02	424.94	0.650	0.000	5.00	19.965	12.98	644.0	0.0	853.2
65.00		1.00	1.16	28.676	31.54	418.43	0.650	0.000	5.00	19.500	12.67	639.7	0.0	833.1
70.00		1.00	1.17	29.127	32.04	411.52	0.650	0.000	5.00	19.034	12.37	634.2	0.0	813.1
75.00		1.00	1.19	29.553	32.51	404.25	0.650	0.000	5.00	18.569	12.07	627.8	0.0	793.0
80.00		1.00	1.21	29.958	32.95	396.68	0.650	0.000	5.00	18.103	11.77	620.4	0.0	773.0
82.50	Bot - Section 3	1.00	1.22	30.152	33.17	392.78	0.650	0.000	2.50	8.877	5.77	306.2	0.0	379.0
85.00		1.00	1.22	30.342	33.38	388.82	0.650	0.000	2.50	8.893	5.78	308.7	0.0	690.8
87.75	Top - Section 2	1.00	1.23	30.546	33.60	384.39	0.650	0.000	2.75	9.648	6.27	337.1	0.0	749.3
90.00		1.00	1.24	30.710	33.78	386.65	0.650	0.000	2.25	7.789	5.06	273.6	0.0	277.5
95.00		1.00	1.25	31.061	34.17	378.33	0.650	0.000	5.00	16.971	11.03	603.1	0.0	604.5
100.00		1.00	1.27	31.399	34.54	369.80	0.650	0.000	5.00	16.506	10.73	592.9	0.0	587.8
105.00		1.00	1.28	31.723	34.89	361.08	0.650	0.000	5.00	16.040	10.43	582.1	0.0	571.0
110.00		1.00	1.29	32.035	35.24	352.16	0.650	0.000	5.00	15.575	10.12	570.8	0.0	554.3
115.00		1.00	1.30	32.336	35.57	343.08	0.650	0.000	5.00	15.109	9.82	558.9	0.0	537.6
120.00		1.00	1.32	32.627	35.89	333.84	0.650	0.000	5.00	14.644	9.52	546.6	0.0	520.9
123.25	Bot - Section 4	1.00	1.32	32.811	36.09	327.75	0.650	0.000	3.25	9.269	6.02	347.9	0.0	329.6
125.00		1.00	1.33	32.909	36.20	324.45	0.650	0.000	1.75	4.984	3.24	187.6	0.0	316.6
127.50	Top - Section 3	1.00	1.33	33.046	36.35	319.70	0.650	0.000	2.50	7.020	4.56	265.4	0.0	445.9
130.00		1.00	1.34	33.182	36.50	319.86	0.650	0.000	2.50	6.904	4.49	262.1	0.0	196.7
135.00		1.00	1.35	33.446	36.79	310.21	0.650	0.000	5.00	13.459	8.75	515.0	0.0	383.5
140.00		1.00	1.36	33.703	37.07	300.45	0.650	0.000	5.00	12.994	8.45	501.0	0.0	370.1
145.00		1.00	1.37	33.953	37.35	290.56	0.650	0.000	5.00	12.528	8.14	486.6	0.0	356.7
147.00	Appurtenance(s)	1.00	1.37	34.051	37.46	286.57	0.650	0.000	2.00	4.881	3.17	190.1	0.0	139.0
150.00		1.00	1.38	34.196	37.62	280.56	0.650	0.000	3.00	7.182	4.67	281.0	0.0	204.4
155.00		1.00	1.39	34.433	37.88	270.45	0.650	0.000	5.00	11.597	7.54	456.8	0.0	330.0
157.00	Appurtenance(s)	1.00	1.39	34.526	37.98	266.38	0.650	0.000	2.00	4.509	2.93	178.1	0.0	128.3
160.00		1.00	1.40	34.664	38.13	260.24	0.650	0.000	3.00	6.623	4.31	262.6	0.0	188.4
165.00		1.00	1.41	34.890	38.38	249.94	0.650	0.000	5.00	10.666	6.93	425.7	0.0	303.3
167.00	Appurtenance(s)	1.00	1.41	34.978	38.48	245.79	0.650	0.000	2.00	4.136	2.69	165.5	0.0	117.6
168.00	Appurtenance(s)	1.00	1.41	35.022	38.52	243.71	0.650	0.000	1.00	2.040	1.33	81.7	0.0	58.0
Totals:									168.00			19,253.6		26,679.4

Discrete Appurtenance Forces

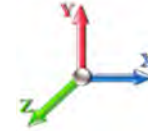
Structure: CT02217-S-SBA	Code: EIA/TIA-222-G	3/21/2018
Site Name: Pomfret School	Exposure: C	
Height: 168.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Load Case: 0.9D + 1.6W 101 mph Wind

Dead Load Factor 0.90
Wind Load Factor 1.60



Iterations 25

No.	Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	CaAa 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	168.00	Lightning Rod	1	35.131	38.644	1.00	1.00	1.05	31.50	0.000	2.500	64.92	0.00	162.31
2	167.00	Low Profile Platform	1	34.978	38.476	1.00	1.00	22.00	1350.00	0.000	0.000	1354.35	0.00	0.00
3	167.00	Decibel DB908H90E-M w/	6	34.978	38.476	0.74	1.00	17.27	226.80	0.000	0.000	1063.27	0.00	0.00
4	157.00	Low Profile Platform	1	34.526	37.979	1.00	1.00	22.00	1350.00	0.000	0.000	1336.86	0.00	0.00
5	157.00	RFS DB-T1-6Z-8AB-OZ	1	34.526	37.979	1.00	1.00	4.80	39.60	0.000	0.000	291.68	0.00	0.00
6	157.00	ALU RRH2x60-AWS	3	34.526	37.979	0.54	0.80	5.63	162.00	0.000	0.000	341.99	0.00	0.00
7	157.00	ALU RRH2x60-700	3	34.526	37.979	0.54	0.80	3.59	162.00	0.000	0.000	217.90	0.00	0.00
8	157.00	Commscope	3	34.526	37.979	0.66	0.80	16.27	104.76	0.000	0.000	988.95	0.00	0.00
9	157.00	Commscope	6	34.526	37.979	0.62	0.80	31.60	220.32	0.000	0.000	1920.27	0.00	0.00
10	157.00	Amphenol	3	34.526	37.979	0.66	0.80	16.27	145.80	0.000	0.000	988.95	0.00	0.00
11	147.00	Low Profile Platform w/	1	34.051	37.456	1.00	1.00	25.00	1620.00	0.000	0.000	1498.26	0.00	0.00
12	147.00	Fastback IBR1300	1	34.051	37.456	0.54	0.80	0.36	7.94	0.000	0.000	21.52	0.00	0.00
13	147.00	Kathrein 782 11056	3	34.051	37.456	0.54	0.80	0.45	4.86	0.000	0.000	26.98	0.00	0.00
14	147.00	Ericsson KRY 112 144/1	3	34.051	37.456	0.54	0.80	0.66	29.70	0.000	0.000	39.51	0.00	0.00
15	147.00	Allen Telecom	3	34.051	37.456	0.54	0.80	0.87	47.25	0.000	0.000	52.04	0.00	0.00
16	147.00	Commscope	3	34.051	37.456	0.64	0.80	22.02	135.81	0.000	0.000	1319.81	0.00	0.00
17	147.00	RFS	3	34.051	37.456	0.58	0.80	6.32	50.49	0.000	0.000	379.04	0.00	0.00

Totals: **5,688.83** **11,906.31**

Total Applied Force Summary

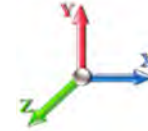
Structure: CT02217-S-SBA	Code: EIA/TIA-222-G	3/21/2018
Site Name: Pomfret School	Exposure: C	
Height: 168.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Load Case: 0.9D + 1.6W 101 mph Wind

Dead Load Factor 0.90
Wind Load Factor 1.60



Iterations 25

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
5.00		597.50	1294.65	0.00	0.00
10.00		586.27	1360.12	0.00	0.00
15.00		575.05	1336.73	0.00	0.00
20.00		598.23	1313.34	0.00	0.00
25.00		614.52	1289.95	0.00	0.00
30.00		625.59	1266.55	0.00	0.00
35.00		632.82	1243.16	0.00	0.00
40.00		637.08	1219.77	0.00	0.00
42.75		349.37	660.90	0.00	0.00
45.00		290.11	943.99	0.00	0.00
49.00		517.89	1656.48	0.00	0.00
50.00		128.58	206.67	0.00	0.00
55.00		647.08	1021.33	0.00	0.00
60.00		644.02	1001.28	0.00	0.00
65.00		639.70	981.23	0.00	0.00
70.00		634.25	961.18	0.00	0.00
75.00		627.79	941.13	0.00	0.00
80.00		620.43	921.08	0.00	0.00
82.50		306.21	453.02	0.00	0.00
85.00		308.69	764.86	0.00	0.00
87.75		337.14	830.73	0.00	0.00
90.00		273.64	344.11	0.00	0.00
95.00		603.06	752.57	0.00	0.00
100.00		592.89	735.86	0.00	0.00
105.00		582.12	719.15	0.00	0.00
110.00		570.79	702.44	0.00	0.00
115.00		558.93	685.73	0.00	0.00
120.00		546.59	669.03	0.00	0.00
123.25		347.92	425.91	0.00	0.00
125.00		187.62	368.46	0.00	0.00
127.50		265.41	519.98	0.00	0.00
130.00		262.08	270.80	0.00	0.00
135.00		514.98	531.58	0.00	0.00
140.00		500.99	518.21	0.00	0.00
145.00		486.62	504.84	0.00	0.00
147.00	(17) attachments	3527.30	2094.24	0.00	0.00
150.00		280.96	258.67	0.00	0.00
155.00		456.83	420.42	0.00	0.00
157.00	(20) attachments	6264.69	2348.90	0.00	0.00
160.00		262.65	208.77	0.00	0.00
165.00		425.73	337.26	0.00	0.00
167.00	(7) attachments	2583.13	1707.96	0.00	0.00
168.00	(1) attachments	146.66	90.66	0.00	162.31
Totals:		31,159.89	36,883.73	0.00	162.31

Linear Appurtenance Segment Forces (Factored)

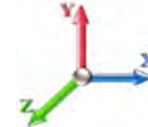
Structure: CT02217-S-SBA	Code: EIA/TIA-222-G	3/21/2018
Site Name: Pomfret School	Exposure: C	
Height: 168.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Load Case: 0.9D + 1.6W 101 mph Wind

Dead Load Factor 0.90
Wind Load Factor 1.60



Iterations 25

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)
5.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.003	0.000	21.088	0.00	0.49
5.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.003	0.000	21.088	0.00	1.87
10.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.007	0.000	21.088	0.00	1.23
10.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.007	0.000	21.088	0.00	4.68
15.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.007	0.000	21.088	0.00	1.23
15.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.007	0.000	21.088	0.00	4.68
20.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.007	0.000	22.375	0.00	1.23
20.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.007	0.000	22.375	0.00	4.68
25.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.007	0.000	23.451	0.00	1.23
25.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.007	0.000	23.451	0.00	4.68
30.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.007	0.000	24.369	0.00	1.23
30.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.007	0.000	24.369	0.00	4.68
35.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.007	0.000	25.172	0.00	1.23
35.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.007	0.000	25.172	0.00	4.68
40.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.007	0.000	25.890	0.00	1.23
40.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.007	0.000	25.890	0.00	4.68
42.75	Safety Cable	Yes	2.75	0.000	0.38	0.09	0.00	0.007	0.000	26.255	0.00	0.68
42.75	Step bolts (ladder)	Yes	2.75	0.000	0.00	0.00	0.00	0.007	0.000	26.255	0.00	2.57
45.00	Safety Cable	Yes	2.25	0.000	0.38	0.07	0.00	0.008	0.000	26.540	0.00	0.55
45.00	Step bolts (ladder)	Yes	2.25	0.000	0.00	0.00	0.00	0.008	0.000	26.540	0.00	2.11
49.00	Safety Cable	Yes	4.00	0.000	0.38	0.13	0.00	0.008	0.000	27.020	0.00	0.98
49.00	Step bolts (ladder)	Yes	4.00	0.000	0.00	0.00	0.00	0.008	0.000	27.020	0.00	3.74
50.00	Safety Cable	Yes	1.00	0.000	0.38	0.03	0.00	0.008	0.000	27.135	0.00	0.25
50.00	Step bolts (ladder)	Yes	1.00	0.000	0.00	0.00	0.00	0.008	0.000	27.135	0.00	0.94
55.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.008	0.000	27.685	0.00	1.23
55.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.008	0.000	27.685	0.00	4.68
60.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.008	0.000	28.197	0.00	1.23
60.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.008	0.000	28.197	0.00	4.68
65.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.008	0.000	28.676	0.00	1.23
65.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.008	0.000	28.676	0.00	4.68
70.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.008	0.000	29.127	0.00	1.23
70.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.008	0.000	29.127	0.00	4.68
75.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.009	0.000	29.553	0.00	1.23
75.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.009	0.000	29.553	0.00	4.68
80.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.009	0.000	29.958	0.00	1.23
80.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.009	0.000	29.958	0.00	4.68
82.50	Safety Cable	Yes	2.50	0.000	0.38	0.08	0.00	0.009	0.000	30.152	0.00	0.61
82.50	Step bolts (ladder)	Yes	2.50	0.000	0.00	0.00	0.00	0.009	0.000	30.152	0.00	2.34
85.00	Safety Cable	Yes	2.50	0.000	0.38	0.08	0.00	0.009	0.000	30.342	0.00	0.61
85.00	Step bolts (ladder)	Yes	2.50	0.000	0.00	0.00	0.00	0.009	0.000	30.342	0.00	2.34
87.75	Safety Cable	Yes	2.75	0.000	0.38	0.09	0.00	0.009	0.000	30.546	0.00	0.68
87.75	Step bolts (ladder)	Yes	2.75	0.000	0.00	0.00	0.00	0.009	0.000	30.546	0.00	2.57
90.00	Safety Cable	Yes	2.25	0.000	0.38	0.07	0.00	0.009	0.000	30.710	0.00	0.55
90.00	Step bolts (ladder)	Yes	2.25	0.000	0.00	0.00	0.00	0.009	0.000	30.710	0.00	2.11
95.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.009	0.000	31.061	0.00	1.23
95.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.009	0.000	31.061	0.00	4.68
100.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.010	0.000	31.399	0.00	1.23

Linear Appurtenance Segment Forces (Factored)

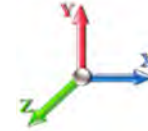
Structure: CT02217-S-SBA	Code: EIA/TIA-222-G	3/21/2018
Site Name: Pomfret School	Exposure: C	
Height: 168.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Load Case: 0.9D + 1.6W 101 mph Wind

Dead Load Factor 0.90
Wind Load Factor 1.60



Iterations 25

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)
100.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.010	0.000	31.399	0.00	4.68
105.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.010	0.000	31.723	0.00	1.23
105.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.010	0.000	31.723	0.00	4.68
110.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.010	0.000	32.035	0.00	1.23
110.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.010	0.000	32.035	0.00	4.68
115.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.010	0.000	32.336	0.00	1.23
115.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.010	0.000	32.336	0.00	4.68
120.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.011	0.000	32.627	0.00	1.23
120.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.011	0.000	32.627	0.00	4.68
123.25	Safety Cable	Yes	3.25	0.000	0.38	0.10	0.00	0.011	0.000	32.811	0.00	0.80
123.25	Step bolts (ladder)	Yes	3.25	0.000	0.00	0.00	0.00	0.011	0.000	32.811	0.00	3.04
125.00	Safety Cable	Yes	1.75	0.000	0.38	0.06	0.00	0.011	0.000	32.909	0.00	0.43
125.00	Step bolts (ladder)	Yes	1.75	0.000	0.00	0.00	0.00	0.011	0.000	32.909	0.00	1.64
127.50	Safety Cable	Yes	2.50	0.000	0.38	0.08	0.00	0.011	0.000	33.046	0.00	0.61
127.50	Step bolts (ladder)	Yes	2.50	0.000	0.00	0.00	0.00	0.011	0.000	33.046	0.00	2.34
130.00	Safety Cable	Yes	2.50	0.000	0.38	0.08	0.00	0.011	0.000	33.182	0.00	0.61
130.00	Step bolts (ladder)	Yes	2.50	0.000	0.00	0.00	0.00	0.011	0.000	33.182	0.00	2.34
135.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.012	0.000	33.446	0.00	1.23
135.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.012	0.000	33.446	0.00	4.68
140.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.012	0.000	33.703	0.00	1.23
140.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.012	0.000	33.703	0.00	4.68
145.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.013	0.000	33.953	0.00	1.23
145.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.013	0.000	33.953	0.00	4.68
147.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.013	0.000	34.051	0.00	0.49
147.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.013	0.000	34.051	0.00	1.87
150.00	Safety Cable	Yes	3.00	0.000	0.38	0.10	0.00	0.013	0.000	34.196	0.00	0.74
150.00	Step bolts (ladder)	Yes	3.00	0.000	0.00	0.00	0.00	0.013	0.000	34.196	0.00	2.81
155.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.014	0.000	34.433	0.00	1.23
155.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.014	0.000	34.433	0.00	4.68
157.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.014	0.000	34.526	0.00	0.49
157.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.014	0.000	34.526	0.00	1.87
160.00	Safety Cable	Yes	3.00	0.000	0.38	0.10	0.00	0.014	0.000	34.664	0.00	0.74
160.00	Step bolts (ladder)	Yes	3.00	0.000	0.00	0.00	0.00	0.014	0.000	34.664	0.00	2.81
165.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.015	0.000	34.890	0.00	1.23
165.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.015	0.000	34.890	0.00	4.68
167.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.015	0.000	34.978	0.00	0.49
167.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.015	0.000	34.978	0.00	1.87
168.00	Safety Cable	Yes	1.00	0.000	0.38	0.03	0.00	0.016	0.000	35.022	0.00	0.25
168.00	Step bolts (ladder)	Yes	1.00	0.000	0.00	0.00	0.00	0.016	0.000	35.022	0.00	0.94
Totals:											0.0	195.0

Calculated Forces

Structure: CT02217-S-SBA	Code: EIA/TIA-222-G	3/21/2018
Site Name: Pomfret School	Exposure: C	
Height: 168.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II

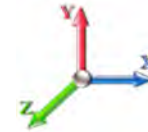


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Load Case: 0.9D + 1.6W 101 mph Wind

Iterations 25

Dead Load Factor 0.90
Wind Load Factor 1.60



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	-36.84	-31.21	0.00	-3521.4	0.00	3521.46	5501.01	2750.51	13262.9	6641.33	0.00	0.000	0.000	0.537
5.00	-35.48	-30.69	0.00	-3365.4	0.00	3365.44	5435.34	2717.67	12856.9	6438.04	0.07	-0.138	0.000	0.529
10.00	-34.04	-30.18	0.00	-3211.9	0.00	3211.98	5368.23	2684.11	12453.6	6236.09	0.29	-0.278	0.000	0.522
15.00	-32.64	-29.68	0.00	-3061.0	0.00	3061.06	5299.69	2649.84	12053.2	6035.57	0.66	-0.420	0.000	0.513
20.00	-31.26	-29.15	0.00	-2912.6	0.00	2912.65	5229.71	2614.86	11655.8	5836.57	1.18	-0.562	0.000	0.505
25.00	-29.90	-28.60	0.00	-2766.8	0.00	2766.89	5158.30	2579.15	11261.6	5639.20	1.85	-0.707	0.000	0.497
30.00	-28.57	-28.03	0.00	-2623.9	0.00	2623.90	5085.46	2542.73	10870.9	5443.55	2.66	-0.852	0.000	0.488
35.00	-27.27	-27.45	0.00	-2483.7	0.00	2483.76	5011.18	2505.59	10483.8	5249.72	3.64	-0.999	0.000	0.479
40.00	-26.01	-26.84	0.00	-2346.5	0.00	2346.53	4935.46	2467.73	10100.6	5057.82	4.76	-1.147	0.000	0.469
42.75	-25.32	-26.51	0.00	-2272.7	0.00	2272.73	4893.21	2446.61	9891.54	4953.12	5.45	-1.230	0.000	0.464
45.00	-24.34	-26.24	0.00	-2213.0	0.00	2213.08	4858.32	2429.16	9721.41	4867.93	6.04	-1.299	0.000	0.460
49.00	-22.66	-25.71	0.00	-2108.1	0.00	2108.13	3959.59	1979.80	7922.06	3966.92	7.18	-1.420	0.000	0.537
50.00	-22.41	-25.62	0.00	-2082.4	0.00	2082.42	3948.01	1974.01	7862.92	3937.31	7.48	-1.451	0.000	0.535
55.00	-21.34	-25.01	0.00	-1954.3	0.00	1954.34	3889.26	1944.63	7568.72	3789.99	9.09	-1.618	0.000	0.521
60.00	-20.28	-24.39	0.00	-1829.3	0.00	1829.31	3829.07	1914.54	7277.15	3643.98	10.88	-1.787	0.000	0.507
65.00	-19.25	-23.78	0.00	-1707.3	0.00	1707.35	3767.45	1883.72	6988.40	3499.39	12.84	-1.956	0.000	0.493
70.00	-18.25	-23.16	0.00	-1588.4	0.00	1588.47	3704.39	1852.20	6702.67	3356.32	14.98	-2.125	0.000	0.478
75.00	-17.26	-22.55	0.00	-1472.6	0.00	1472.65	3639.90	1819.95	6420.16	3214.85	17.30	-2.294	0.000	0.463
80.00	-16.32	-21.93	0.00	-1359.9	0.00	1359.90	3573.98	1786.99	6141.06	3075.10	19.79	-2.463	0.000	0.447
82.50	-15.85	-21.63	0.00	-1305.0	0.00	1305.08	3540.48	1770.24	6002.85	3005.89	21.10	-2.549	0.000	0.439
85.00	-15.07	-21.31	0.00	-1251.0	0.00	1251.02	3506.62	1753.31	5865.57	2937.15	22.46	-2.635	0.000	0.430
87.75	-14.22	-20.95	0.00	-1192.4	0.00	1192.42	2761.71	1380.86	4636.01	2321.45	24.01	-2.729	0.000	0.519
90.00	-13.84	-20.70	0.00	-1145.2	0.00	1145.28	2740.07	1370.04	4543.51	2275.13	25.31	-2.806	0.000	0.509
95.00	-13.05	-20.10	0.00	-1041.8	0.00	1041.81	2690.94	1345.47	4339.45	2172.95	28.35	-2.994	0.000	0.485
100.00	-12.29	-19.51	0.00	-941.32	0.00	941.32	2640.38	1320.19	4137.62	2071.89	31.59	-3.181	0.000	0.459
105.00	-11.54	-18.92	0.00	-843.79	0.00	843.79	2588.38	1294.19	3938.22	1972.04	35.01	-3.363	0.000	0.433
110.00	-10.82	-18.34	0.00	-749.19	0.00	749.19	2534.95	1267.48	3741.44	1873.50	38.63	-3.541	0.000	0.404
115.00	-10.12	-17.77	0.00	-657.49	0.00	657.49	2480.09	1240.04	3547.48	1776.38	42.43	-3.713	0.000	0.374
120.00	-9.45	-17.20	0.00	-568.64	0.00	568.64	2423.79	1211.90	3356.53	1680.76	46.41	-3.877	0.000	0.342
123.25	-9.03	-16.84	0.00	-512.74	0.00	512.74	2386.43	1193.21	3234.12	1619.46	49.08	-3.981	0.000	0.321
125.00	-8.65	-16.63	0.00	-483.27	0.00	483.27	2366.06	1183.03	3168.79	1586.75	50.55	-4.036	0.000	0.308
127.50	-8.13	-16.34	0.00	-441.69	0.00	441.69	1766.99	883.49	2371.88	1187.70	52.68	-4.111	0.000	0.377
130.00	-7.85	-16.08	0.00	-400.83	0.00	400.83	1747.69	873.85	2306.16	1154.80	54.85	-4.184	0.000	0.352
135.00	-7.32	-15.54	0.00	-320.44	0.00	320.44	1708.02	854.01	2176.01	1089.62	59.32	-4.338	0.000	0.299
140.00	-6.81	-15.02	0.00	-242.72	0.00	242.72	1666.92	833.46	2047.71	1025.37	63.93	-4.472	0.000	0.241
145.00	-6.32	-14.50	0.00	-167.62	0.00	167.62	1624.39	812.19	1921.45	962.15	68.67	-4.581	0.000	0.178
147.00	-4.51	-10.82	0.00	-138.62	0.00	138.62	1606.97	803.49	1871.57	937.18	70.60	-4.617	0.000	0.151
150.00	-4.27	-10.52	0.00	-106.15	0.00	106.15	1580.42	790.21	1797.44	900.06	73.51	-4.663	0.000	0.121
155.00	-3.88	-10.04	0.00	-53.54	0.00	53.54	1535.02	767.51	1675.88	839.18	78.42	-4.716	0.000	0.066
157.00	-2.05	-3.60	0.00	-33.46	0.00	33.46	1516.46	758.23	1627.98	815.20	80.40	-4.729	0.000	0.042
160.00	-1.87	-3.32	0.00	-22.66	0.00	22.66	1488.18	744.09	1556.95	779.63	83.37	-4.743	0.000	0.030
165.00	-1.57	-2.87	0.00	-6.05	0.00	6.05	1439.00	719.50	1439.93	721.04	88.34	-4.755	0.000	0.010
167.00	-0.08	-0.15	0.00	-0.32	0.00	0.32	1413.06	706.53	1388.23	695.14	90.33	-4.756	0.000	0.001
168.00	0.00	-0.15	0.00	-0.16	0.00	0.16	1400.09	700.04	1362.73	682.38	91.33	-4.756	0.000	0.000

Wind Loading - Shaft

Structure: CT02217-S-SBA	Code: EIA/TIA-222-G	3/21/2018
Site Name: Pomfret School	Exposure: C	
Height: 168.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II

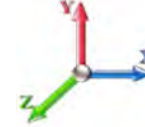


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Load Case: 1.2D + 1.0Di + 1.0Wi 50 mph Wind

Iterations 24

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		1.00	0.85	5.168	5.68	0.00	1.200	0.000	0.00	0.000	0.00	0.0	0.0	0.0
5.00		1.00	0.85	5.168	5.68	0.00	1.200	1.656	5.00	26.148	31.38	178.4	618.7	2265.9
10.00		1.00	0.85	5.168	5.68	0.00	1.200	1.775	5.00	25.782	30.94	175.9	652.2	2268.2
15.00		1.00	0.85	5.168	5.68	0.00	1.200	1.848	5.00	25.377	30.45	173.1	667.3	2252.1
20.00		1.00	0.90	5.483	6.03	0.00	1.200	1.902	5.00	24.957	29.95	180.6	674.3	2227.9
25.00		1.00	0.95	5.747	6.32	0.00	1.200	1.945	5.00	24.527	29.43	186.1	676.6	2199.1
30.00		1.00	0.98	5.972	6.57	0.00	1.200	1.981	5.00	24.091	28.91	189.9	675.8	2167.1
35.00		1.00	1.01	6.169	6.79	0.00	1.200	2.012	5.00	23.652	28.38	192.6	672.9	2132.9
40.00		1.00	1.04	6.345	6.98	0.00	1.200	2.039	5.00	23.209	27.85	194.4	668.2	2097.1
42.75	Bot - Section 2	1.00	1.06	6.434	7.08	0.00	1.200	2.052	2.75	12.573	15.09	106.8	365.8	1138.4
45.00		1.00	1.07	6.504	7.15	0.00	1.200	2.063	2.25	10.329	12.39	88.7	302.3	1472.1
49.00	Top - Section 1	1.00	1.09	6.622	7.28	0.00	1.200	2.081	4.00	18.141	21.77	158.6	533.1	2583.8
50.00		1.00	1.09	6.650	7.32	0.00	1.200	2.085	1.00	4.489	5.39	39.4	133.0	369.0
55.00		1.00	1.12	6.785	7.46	0.00	1.200	2.105	5.00	22.185	26.62	198.7	657.0	1821.3
60.00		1.00	1.14	6.910	7.60	0.00	1.200	2.123	5.00	21.734	26.08	198.3	648.4	1785.9
65.00		1.00	1.16	7.028	7.73	0.00	1.200	2.140	5.00	21.283	25.54	197.4	639.0	1749.9
70.00		1.00	1.17	7.138	7.85	0.00	1.200	2.156	5.00	20.831	25.00	196.3	629.1	1713.2
75.00		1.00	1.19	7.243	7.97	0.00	1.200	2.171	5.00	20.378	24.45	194.8	618.7	1676.1
80.00		1.00	1.21	7.342	8.08	0.00	1.200	2.185	5.00	19.924	23.91	193.1	607.9	1638.5
82.50	Bot - Section 3	1.00	1.22	7.390	8.13	0.00	1.200	2.192	2.50	9.790	11.75	95.5	301.1	806.4
85.00		1.00	1.22	7.436	8.18	0.00	1.200	2.198	2.50	9.809	11.77	96.3	302.6	1223.7
87.75	Top - Section 2	1.00	1.23	7.486	8.23	0.00	1.200	2.205	2.75	10.659	12.79	105.3	329.4	1328.4
90.00		1.00	1.24	7.526	8.28	0.00	1.200	2.211	2.25	8.618	10.34	85.6	267.1	637.1
95.00		1.00	1.25	7.612	8.37	0.00	1.200	2.223	5.00	18.824	22.59	189.1	581.6	1387.6
100.00		1.00	1.27	7.695	8.46	0.00	1.200	2.234	5.00	18.368	22.04	186.6	569.4	1353.1
105.00		1.00	1.28	7.774	8.55	0.00	1.200	2.245	5.00	17.912	21.49	183.8	556.8	1318.2
110.00		1.00	1.29	7.851	8.64	0.00	1.200	2.256	5.00	17.455	20.95	180.9	544.0	1283.1
115.00		1.00	1.30	7.925	8.72	0.00	1.200	2.266	5.00	16.998	20.40	177.8	531.0	1247.8
120.00		1.00	1.32	7.996	8.80	0.00	1.200	2.276	5.00	16.540	19.85	174.6	517.7	1212.2
123.25	Bot - Section 4	1.00	1.32	8.041	8.85	0.00	1.200	2.282	3.25	10.505	12.61	111.5	330.8	770.3
125.00		1.00	1.33	8.065	8.87	0.00	1.200	2.285	1.75	5.650	6.78	60.1	179.0	601.1
127.50	Top - Section 3	1.00	1.33	8.099	8.91	0.00	1.200	2.289	2.50	7.974	9.57	85.2	252.3	846.8
130.00		1.00	1.34	8.132	8.95	0.00	1.200	2.294	2.50	7.860	9.43	84.4	248.8	511.2
135.00		1.00	1.35	8.197	9.02	0.00	1.200	2.303	5.00	15.378	18.45	166.4	483.8	995.1
140.00		1.00	1.36	8.260	9.09	0.00	1.200	2.311	5.00	14.919	17.90	162.7	469.7	963.2
145.00		1.00	1.37	8.321	9.15	0.00	1.200	2.319	5.00	14.461	17.35	158.8	455.5	931.2
147.00	Appurtenance(s)	1.00	1.37	8.345	9.18	0.00	1.200	2.322	2.00	5.655	6.79	62.3	179.9	365.2
150.00		1.00	1.38	8.381	9.22	0.00	1.200	2.327	3.00	8.345	10.01	92.3	264.7	537.2
155.00		1.00	1.39	8.439	9.28	0.00	1.200	2.335	5.00	13.543	16.25	150.9	426.6	866.6
157.00	Appurtenance(s)	1.00	1.39	8.462	9.31	0.00	1.200	2.338	2.00	5.288	6.35	59.1	168.3	339.3
160.00		1.00	1.40	8.495	9.34	0.00	1.200	2.342	3.00	7.794	9.35	87.4	247.2	498.3
165.00		1.00	1.41	8.551	9.41	0.00	1.200	2.349	5.00	12.624	15.15	142.5	397.1	801.5
167.00	Appurtenance(s)	1.00	1.41	8.572	9.43	0.00	1.200	2.352	2.00	4.920	5.90	55.7	156.5	313.2
168.00	Appurtenance(s)	1.00	1.41	8.583	9.44	0.00	1.200	2.353	1.00	2.432	2.92	27.6	77.6	154.9
Totals:									168.00			6,025.3		54,851.5

Discrete Appurtenance Forces

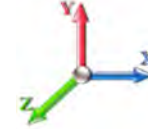
Structure: CT02217-S-SBA	Code: EIA/TIA-222-G	3/21/2018
Site Name: Pomfret School	Exposure: C	
Height: 168.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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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 24

No.	Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	CaAa 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	168.00	Lightning Rod	1	8.610	9.471	1.00	1.00	4.25	75.36	0.000	2.500	40.26	0.00	100.64
2	167.00	Low Profile Platform	1	8.572	9.429	1.00	1.00	45.80	3264.05	0.000	0.000	431.90	0.00	0.00
3	167.00	Decibel DB908H90E-M w/	6	8.572	9.429	0.74	1.00	23.72	1148.52	0.000	0.000	223.66	0.00	0.00
4	157.00	Low Profile Platform	1	8.462	9.308	1.00	1.00	45.66	3253.19	0.000	0.000	424.96	0.00	0.00
5	157.00	RFS DB-T1-6Z-8AB-OZ	1	8.462	9.308	1.00	1.00	6.00	257.19	0.000	0.000	55.82	0.00	0.00
6	157.00	ALU RRH2x60-AWS	3	8.462	9.308	0.54	0.80	7.44	506.45	0.000	0.000	69.22	0.00	0.00
7	157.00	ALU RRH2x60-700	3	8.462	9.308	0.54	0.80	5.96	473.06	0.000	0.000	55.48	0.00	0.00
8	157.00	Commscope	3	8.462	9.308	0.67	0.80	24.09	696.61	0.000	0.000	224.26	0.00	0.00
9	157.00	Commscope	6	8.462	9.308	0.62	0.80	46.65	1407.01	0.000	0.000	434.18	0.00	0.00
10	157.00	Amphenol	3	8.462	9.308	0.67	0.80	24.09	974.32	0.000	0.000	224.26	0.00	0.00
11	147.00	Low Profile Platform w/	1	8.345	9.180	1.00	1.00	52.87	4550.03	0.000	0.000	485.30	0.00	0.00
12	147.00	Fastback IBR1300	1	8.345	9.180	0.54	0.80	0.61	29.98	0.000	0.000	5.57	0.00	0.00
13	147.00	Kathrein 782 11056	3	8.345	9.180	0.54	0.80	1.33	16.43	0.000	0.000	12.19	0.00	0.00
14	147.00	Ericsson KRY 112 144/1	3	8.345	9.180	0.54	0.80	1.70	73.34	0.000	0.000	15.61	0.00	0.00
15	147.00	Allen Telecom	3	8.345	9.180	0.54	0.80	2.14	158.17	0.000	0.000	19.64	0.00	0.00
16	147.00	Commscope	3	8.345	9.180	0.65	0.80	30.71	911.83	0.000	0.000	281.88	0.00	0.00
17	147.00	RFS	3	8.345	9.180	0.59	0.80	10.80	287.05	0.000	0.000	99.15	0.00	0.00

Totals: 18,082.60

3,103.33

Total Applied Force Summary

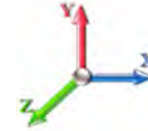
Structure: CT02217-S-SBA	Code: EIA/TIA-222-G	3/21/2018
Site Name: Pomfret School	Exposure: C	
Height: 168.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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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 24

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
5.00		178.38	2361.01	0.00	0.00
10.00		175.88	2511.32	0.00	0.00
15.00		173.12	2498.75	0.00	0.00
20.00		180.64	2477.24	0.00	0.00
25.00		186.07	2450.56	0.00	0.00
30.00		189.92	2420.45	0.00	0.00
35.00		192.60	2387.90	0.00	0.00
40.00		194.38	2353.48	0.00	0.00
42.75		106.78	1279.79	0.00	0.00
45.00		88.68	1588.11	0.00	0.00
49.00		158.57	2790.71	0.00	0.00
50.00		39.41	420.83	0.00	0.00
55.00		198.69	2081.33	0.00	0.00
60.00		198.25	2046.96	0.00	0.00
65.00		197.44	2011.86	0.00	0.00
70.00		196.28	1976.13	0.00	0.00
75.00		194.82	1939.83	0.00	0.00
80.00		193.09	1903.03	0.00	0.00
82.50		95.50	938.89	0.00	0.00
85.00		96.28	1356.32	0.00	0.00
87.75		105.33	1474.54	0.00	0.00
90.00		85.62	756.77	0.00	0.00
95.00		189.15	1654.31	0.00	0.00
100.00		186.57	1620.45	0.00	0.00
105.00		183.81	1586.27	0.00	0.00
110.00		180.89	1551.79	0.00	0.00
115.00		177.81	1517.05	0.00	0.00
120.00		174.58	1482.06	0.00	0.00
123.25		111.50	945.94	0.00	0.00
125.00		60.15	695.76	0.00	0.00
127.50		85.25	982.15	0.00	0.00
130.00		84.37	646.61	0.00	0.00
135.00		166.39	1266.51	0.00	0.00
140.00		162.67	1235.15	0.00	0.00
145.00		158.83	1203.60	0.00	0.00
147.00	(17) attachments	981.63	6501.08	0.00	0.00
150.00		92.32	654.83	0.00	0.00
155.00		150.85	1063.05	0.00	0.00
157.00	(20) attachments	1547.23	7985.79	0.00	0.00
160.00		87.40	571.32	0.00	0.00
165.00		142.48	923.56	0.00	0.00
167.00	(7) attachments	711.23	4774.68	0.00	0.00
168.00	(1) attachments	67.82	247.28	0.00	100.64
	Totals:	9,128.64	81,135.05	0.00	100.64

Linear Appurtenance Segment Forces (Factored)

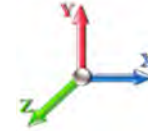
Structure: CT02217-S-SBA	Code: EIA/TIA-222-G	3/21/2018
Site Name: Pomfret School	Exposure: C	
Height: 168.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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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 24

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)
5.00	Safety Cable	Yes	2.00	0.000	0.38	0.62	0.00	0.003	0.000	5.168	0.00	8.35
5.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.003	0.000	5.168	0.00	10.87
10.00	Safety Cable	Yes	5.00	0.000	0.38	1.64	0.00	0.007	0.000	5.168	0.00	23.53
10.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.007	0.000	5.168	0.00	29.96
15.00	Safety Cable	Yes	5.00	0.000	0.38	1.70	0.00	0.007	0.000	5.168	0.00	25.26
15.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.007	0.000	5.168	0.00	31.77
20.00	Safety Cable	Yes	5.00	0.000	0.38	1.74	0.00	0.007	0.000	5.483	0.00	26.58
20.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.007	0.000	5.483	0.00	33.13
25.00	Safety Cable	Yes	5.00	0.000	0.38	1.78	0.00	0.007	0.000	5.747	0.00	27.65
25.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.007	0.000	5.747	0.00	34.25
30.00	Safety Cable	Yes	5.00	0.000	0.38	1.81	0.00	0.007	0.000	5.972	0.00	28.56
30.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.007	0.000	5.972	0.00	35.19
35.00	Safety Cable	Yes	5.00	0.000	0.38	1.83	0.00	0.007	0.000	6.169	0.00	29.35
35.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.007	0.000	6.169	0.00	36.02
40.00	Safety Cable	Yes	5.00	0.000	0.38	1.86	0.00	0.007	0.000	6.345	0.00	30.06
40.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.007	0.000	6.345	0.00	36.75
42.75	Safety Cable	Yes	2.75	0.000	0.38	1.03	0.00	0.007	0.000	6.434	0.00	16.73
42.75	Step bolts (ladder)	Yes	2.75	0.000	0.00	0.00	0.00	0.007	0.000	6.434	0.00	20.42
45.00	Safety Cable	Yes	2.25	0.000	0.38	0.84	0.00	0.008	0.000	6.504	0.00	13.82
45.00	Step bolts (ladder)	Yes	2.25	0.000	0.00	0.00	0.00	0.008	0.000	6.504	0.00	16.84
49.00	Safety Cable	Yes	4.00	0.000	0.38	1.51	0.00	0.008	0.000	6.622	0.00	24.94
49.00	Step bolts (ladder)	Yes	4.00	0.000	0.00	0.00	0.00	0.008	0.000	6.622	0.00	30.32
50.00	Safety Cable	Yes	1.00	0.000	0.38	0.38	0.00	0.008	0.000	6.650	0.00	6.26
50.00	Step bolts (ladder)	Yes	1.00	0.000	0.00	0.00	0.00	0.008	0.000	6.650	0.00	7.60
55.00	Safety Cable	Yes	5.00	0.000	0.38	1.91	0.00	0.008	0.000	6.785	0.00	31.83
55.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.008	0.000	6.785	0.00	38.58
60.00	Safety Cable	Yes	5.00	0.000	0.38	1.93	0.00	0.008	0.000	6.910	0.00	32.33
60.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.008	0.000	6.910	0.00	39.10
65.00	Safety Cable	Yes	5.00	0.000	0.38	1.94	0.00	0.008	0.000	7.028	0.00	32.80
65.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.008	0.000	7.028	0.00	39.59
70.00	Safety Cable	Yes	5.00	0.000	0.38	1.96	0.00	0.008	0.000	7.138	0.00	33.24
70.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.008	0.000	7.138	0.00	40.04
75.00	Safety Cable	Yes	5.00	0.000	0.38	1.97	0.00	0.009	0.000	7.243	0.00	33.66
75.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.009	0.000	7.243	0.00	40.47
80.00	Safety Cable	Yes	5.00	0.000	0.38	1.98	0.00	0.009	0.000	7.342	0.00	34.05
80.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.009	0.000	7.342	0.00	40.88
82.50	Safety Cable	Yes	2.50	0.000	0.38	0.99	0.00	0.009	0.000	7.390	0.00	17.12
82.50	Step bolts (ladder)	Yes	2.50	0.000	0.00	0.00	0.00	0.009	0.000	7.390	0.00	20.54
85.00	Safety Cable	Yes	2.50	0.000	0.38	1.00	0.00	0.009	0.000	7.436	0.00	17.21
85.00	Step bolts (ladder)	Yes	2.50	0.000	0.00	0.00	0.00	0.009	0.000	7.436	0.00	20.64
87.75	Safety Cable	Yes	2.75	0.000	0.38	1.10	0.00	0.009	0.000	7.486	0.00	19.04
87.75	Step bolts (ladder)	Yes	2.75	0.000	0.00	0.00	0.00	0.009	0.000	7.486	0.00	22.81
90.00	Safety Cable	Yes	2.25	0.000	0.38	0.90	0.00	0.009	0.000	7.526	0.00	15.65
90.00	Step bolts (ladder)	Yes	2.25	0.000	0.00	0.00	0.00	0.009	0.000	7.526	0.00	18.74
95.00	Safety Cable	Yes	5.00	0.000	0.38	2.01	0.00	0.009	0.000	7.612	0.00	35.13
95.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.009	0.000	7.612	0.00	42.00
100.00	Safety Cable	Yes	5.00	0.000	0.38	2.02	0.00	0.010	0.000	7.695	0.00	35.46

Linear Appurtenance Segment Forces (Factored)

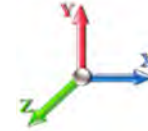
Structure: CT02217-S-SBA	Code: EIA/TIA-222-G	3/21/2018
Site Name: Pomfret School	Exposure: C	
Height: 168.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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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 24

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)
100.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.010	0.000	7.695	0.00	42.33
105.00	Safety Cable	Yes	5.00	0.000	0.38	2.03	0.00	0.010	0.000	7.774	0.00	35.77
105.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.010	0.000	7.774	0.00	42.66
110.00	Safety Cable	Yes	5.00	0.000	0.38	2.04	0.00	0.010	0.000	7.851	0.00	36.07
110.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.010	0.000	7.851	0.00	42.97
115.00	Safety Cable	Yes	5.00	0.000	0.38	2.05	0.00	0.010	0.000	7.925	0.00	36.37
115.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.010	0.000	7.925	0.00	43.28
120.00	Safety Cable	Yes	5.00	0.000	0.38	2.05	0.00	0.011	0.000	7.996	0.00	36.65
120.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.011	0.000	7.996	0.00	43.57
123.25	Safety Cable	Yes	3.25	0.000	0.38	1.34	0.00	0.011	0.000	8.041	0.00	23.94
123.25	Step bolts (ladder)	Yes	3.25	0.000	0.00	0.00	0.00	0.011	0.000	8.041	0.00	28.44
125.00	Safety Cable	Yes	1.75	0.000	0.38	0.72	0.00	0.011	0.000	8.065	0.00	12.92
125.00	Step bolts (ladder)	Yes	1.75	0.000	0.00	0.00	0.00	0.011	0.000	8.065	0.00	15.35
127.50	Safety Cable	Yes	2.50	0.000	0.38	1.03	0.00	0.011	0.000	8.099	0.00	18.53
127.50	Step bolts (ladder)	Yes	2.50	0.000	0.00	0.00	0.00	0.011	0.000	8.099	0.00	21.99
130.00	Safety Cable	Yes	2.50	0.000	0.38	1.03	0.00	0.011	0.000	8.132	0.00	18.59
130.00	Step bolts (ladder)	Yes	2.50	0.000	0.00	0.00	0.00	0.011	0.000	8.132	0.00	22.06
135.00	Safety Cable	Yes	5.00	0.000	0.38	2.08	0.00	0.012	0.000	8.197	0.00	37.44
135.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.012	0.000	8.197	0.00	44.39
140.00	Safety Cable	Yes	5.00	0.000	0.38	2.08	0.00	0.012	0.000	8.260	0.00	37.69
140.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.012	0.000	8.260	0.00	44.64
145.00	Safety Cable	Yes	5.00	0.000	0.38	2.09	0.00	0.013	0.000	8.321	0.00	37.93
145.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.013	0.000	8.321	0.00	44.89
147.00	Safety Cable	Yes	2.00	0.000	0.38	0.84	0.00	0.013	0.000	8.345	0.00	15.21
147.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.013	0.000	8.345	0.00	18.00
150.00	Safety Cable	Yes	3.00	0.000	0.38	1.26	0.00	0.013	0.000	8.381	0.00	22.90
150.00	Step bolts (ladder)	Yes	3.00	0.000	0.00	0.00	0.00	0.013	0.000	8.381	0.00	27.08
155.00	Safety Cable	Yes	5.00	0.000	0.38	2.10	0.00	0.014	0.000	8.439	0.00	38.40
155.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.014	0.000	8.439	0.00	45.37
157.00	Safety Cable	Yes	2.00	0.000	0.38	0.84	0.00	0.014	0.000	8.462	0.00	15.39
157.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.014	0.000	8.462	0.00	18.19
160.00	Safety Cable	Yes	3.00	0.000	0.38	1.27	0.00	0.014	0.000	8.495	0.00	23.17
160.00	Step bolts (ladder)	Yes	3.00	0.000	0.00	0.00	0.00	0.014	0.000	8.495	0.00	27.36
165.00	Safety Cable	Yes	5.00	0.000	0.38	2.12	0.00	0.015	0.000	8.551	0.00	38.84
165.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.015	0.000	8.551	0.00	45.83
167.00	Safety Cable	Yes	2.00	0.000	0.38	0.85	0.00	0.015	0.000	8.572	0.00	15.57
167.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.015	0.000	8.572	0.00	18.37
168.00	Safety Cable	Yes	1.00	0.000	0.38	0.42	0.00	0.016	0.000	8.583	0.00	7.79
168.00	Step bolts (ladder)	Yes	1.00	0.000	0.00	0.00	0.00	0.016	0.000	8.583	0.00	9.19
Totals:											0.0	2,440.3

Calculated Forces

Structure: CT02217-S-SBA	Code: EIA/TIA-222-G	3/21/2018
Site Name: Pomfret School	Exposure: C	
Height: 168.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II

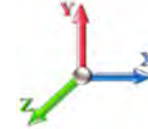


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Load Case: 1.2D + 1.0Di + 1.0Wi 50 mph Wind

Iterations 24

Dead Load Factor 1.20
Wind Load Factor 1.00



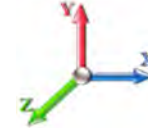
Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-81.13	-9.16	0.00	-1058.5	0.00	1058.59	5501.01	2750.51	13262.9	6641.33	0.00	0.000	0.000	0.174
5.00	-78.76	-9.04	0.00	-1012.8	0.00	1012.80	5435.34	2717.67	12856.9	6438.04	0.02	-0.042	0.000	0.172
10.00	-76.25	-8.91	0.00	-967.62	0.00	967.62	5368.23	2684.11	12453.6	6236.09	0.09	-0.084	0.000	0.169
15.00	-73.74	-8.79	0.00	-923.05	0.00	923.05	5299.69	2649.84	12053.2	6035.57	0.20	-0.126	0.000	0.167
20.00	-71.26	-8.66	0.00	-879.09	0.00	879.09	5229.71	2614.86	11655.8	5836.57	0.35	-0.169	0.000	0.164
25.00	-68.80	-8.52	0.00	-835.80	0.00	835.80	5158.30	2579.15	11261.6	5639.20	0.56	-0.213	0.000	0.162
30.00	-66.38	-8.37	0.00	-793.22	0.00	793.22	5085.46	2542.73	10870.9	5443.55	0.80	-0.257	0.000	0.159
35.00	-63.98	-8.21	0.00	-751.38	0.00	751.38	5011.18	2505.59	10483.8	5249.72	1.10	-0.301	0.000	0.156
40.00	-61.63	-8.04	0.00	-710.31	0.00	710.31	4935.46	2467.73	10100.6	5057.82	1.44	-0.346	0.000	0.153
42.75	-60.34	-7.95	0.00	-688.19	0.00	688.19	4893.21	2446.61	9891.54	4953.12	1.64	-0.371	0.000	0.151
45.00	-58.75	-7.88	0.00	-670.30	0.00	670.30	4858.32	2429.16	9721.41	4867.93	1.82	-0.392	0.000	0.150
49.00	-55.96	-7.73	0.00	-638.76	0.00	638.76	3959.59	1979.80	7922.06	3966.92	2.17	-0.429	0.000	0.175
50.00	-55.53	-7.71	0.00	-631.04	0.00	631.04	3948.01	1974.01	7862.92	3937.31	2.26	-0.438	0.000	0.174
55.00	-53.45	-7.55	0.00	-592.47	0.00	592.47	3889.26	1944.63	7568.72	3789.99	2.74	-0.489	0.000	0.170
60.00	-51.40	-7.38	0.00	-554.74	0.00	554.74	3829.07	1914.54	7277.15	3643.98	3.28	-0.540	0.000	0.166
65.00	-49.38	-7.20	0.00	-517.87	0.00	517.87	3767.45	1883.72	6988.40	3499.39	3.88	-0.591	0.000	0.161
70.00	-47.40	-7.03	0.00	-481.86	0.00	481.86	3704.39	1852.20	6702.67	3356.32	4.52	-0.643	0.000	0.156
75.00	-45.46	-6.85	0.00	-446.73	0.00	446.73	3639.90	1819.95	6420.16	3214.85	5.22	-0.694	0.000	0.151
80.00	-43.55	-6.66	0.00	-412.48	0.00	412.48	3573.98	1786.99	6141.06	3075.10	5.98	-0.745	0.000	0.146
82.50	-42.61	-6.57	0.00	-395.82	0.00	395.82	3540.48	1770.24	6002.85	3005.89	6.38	-0.771	0.000	0.144
85.00	-41.25	-6.48	0.00	-379.39	0.00	379.39	3506.62	1753.31	5865.57	2937.15	6.79	-0.797	0.000	0.141
87.75	-39.78	-6.37	0.00	-361.57	0.00	361.57	2761.71	1380.86	4636.01	2321.45	7.25	-0.826	0.000	0.170
90.00	-39.02	-6.30	0.00	-347.24	0.00	347.24	2740.07	1370.04	4543.51	2275.13	7.65	-0.849	0.000	0.167
95.00	-37.36	-6.12	0.00	-315.73	0.00	315.73	2690.94	1345.47	4339.45	2172.95	8.57	-0.906	0.000	0.159
100.00	-35.74	-5.95	0.00	-285.11	0.00	285.11	2640.38	1320.19	4137.62	2071.89	9.55	-0.963	0.000	0.151
105.00	-34.15	-5.77	0.00	-255.38	0.00	255.38	2588.38	1294.19	3938.22	1972.04	10.59	-1.018	0.000	0.143
110.00	-32.60	-5.59	0.00	-226.55	0.00	226.55	2534.95	1267.48	3741.44	1873.50	11.68	-1.072	0.000	0.134
115.00	-31.08	-5.41	0.00	-198.61	0.00	198.61	2480.09	1240.04	3547.48	1776.38	12.83	-1.124	0.000	0.124
120.00	-29.60	-5.23	0.00	-171.57	0.00	171.57	2423.79	1211.90	3356.53	1680.76	14.04	-1.173	0.000	0.114
123.25	-28.65	-5.11	0.00	-154.58	0.00	154.58	2386.43	1193.21	3234.12	1619.46	14.85	-1.205	0.000	0.107
125.00	-27.95	-5.04	0.00	-145.65	0.00	145.65	2366.06	1183.03	3168.79	1586.75	15.29	-1.221	0.000	0.104
127.50	-26.97	-4.95	0.00	-133.05	0.00	133.05	1766.99	883.49	2371.88	1187.70	15.94	-1.244	0.000	0.127
130.00	-26.32	-4.86	0.00	-120.69	0.00	120.69	1747.69	873.85	2306.16	1154.80	16.59	-1.266	0.000	0.120
135.00	-25.06	-4.69	0.00	-96.37	0.00	96.37	1708.02	854.01	2176.01	1089.62	17.95	-1.312	0.000	0.103
140.00	-23.82	-4.51	0.00	-72.94	0.00	72.94	1666.92	833.46	2047.71	1025.37	19.34	-1.352	0.000	0.085
145.00	-22.62	-4.33	0.00	-50.39	0.00	50.39	1624.39	812.19	1921.45	962.15	20.78	-1.385	0.000	0.066
147.00	-16.15	-3.20	0.00	-41.73	0.00	41.73	1606.97	803.49	1871.57	937.18	21.36	-1.396	0.000	0.055
150.00	-15.49	-3.09	0.00	-32.14	0.00	32.14	1580.42	790.21	1797.44	900.06	22.24	-1.410	0.000	0.046
155.00	-14.43	-2.92	0.00	-16.68	0.00	16.68	1535.02	767.51	1675.88	839.18	23.73	-1.426	0.000	0.029
157.00	-6.49	-1.17	0.00	-10.85	0.00	10.85	1516.46	758.23	1627.98	815.20	24.33	-1.430	0.000	0.018
160.00	-5.92	-1.07	0.00	-7.34	0.00	7.34	1488.18	744.09	1556.95	779.63	25.23	-1.435	0.000	0.013
165.00	-5.00	-0.90	0.00	-1.98	0.00	1.98	1439.00	719.50	1439.93	721.04	26.73	-1.439	0.000	0.006
167.00	-0.25	-0.07	0.00	-0.17	0.00	0.17	1413.06	706.53	1388.23	695.14	27.33	-1.439	0.000	0.000
168.00	0.00	-0.07	0.00	-0.10	0.00	0.10	1400.09	700.04	1362.73	682.38	27.64	-1.439	0.000	0.000

Seismic Segment Forces (Factored)

Structure: CT02217-S-SBA	Code: EIA/TIA-222-G	3/21/2018
Site Name: Pomfret School	Exposure: C	
Height: 168.00 (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 + 1.0E						Iterations 22
Gust Response Factor	1.10				Sds	0.18
Dead Load Factor	1.20	Seismic Load Factor	1.00		Sd1	0.10
Wind Load Factor	0.00	Structure Frequency	0.38		SA	0.04
					Seismic Importance Factor	1.00

Top Elev (ft)	Description	Wz (lb)	a	b	c	Lateral Fs (lb)	R: 1.50
0.00		0.00	0.00	0.00	0.00	0.00	
5.00		1372.6	0.00	0.03	0.02	20.57	
10.00		1346.6	0.01	0.05	0.03	30.44	
15.00		1320.6	0.02	0.06	0.04	35.29	
20.00		1294.7	0.03	0.07	0.04	37.55	
25.00		1268.7	0.04	0.07	0.04	38.49	
30.00		1242.7	0.06	0.07	0.04	38.82	
35.00		1216.7	0.08	0.07	0.04	38.92	
40.00		1190.7	0.11	0.07	0.04	38.94	
42.75	Bot - Section 2	643.83	0.12	0.07	0.03	21.30	
45.00		974.82	0.14	0.07	0.03	32.53	
49.00	Top - Section 1	1708.8	0.16	0.07	0.03	57.72	
50.00		196.72	0.17	0.07	0.03	6.66	
55.00		970.25	0.20	0.06	0.02	32.91	
60.00		947.97	0.24	0.06	0.02	31.51	
65.00		925.69	0.28	0.05	0.01	29.06	
70.00		903.42	0.33	0.04	0.01	25.26	
75.00		881.14	0.38	0.03	0.01	19.89	
80.00		858.86	0.43	0.01	0.01	12.95	
82.50	Bot - Section 3	421.08	0.46	0.00	0.01	4.47	
85.00		767.56	0.48	-0.01	0.01	4.44	
87.75	Top - Section 2	832.52	0.52	-0.02	0.01	0.15	
90.00		308.29	0.54	-0.03	0.01	-1.39	
95.00		671.62	0.60	-0.05	0.02	-9.73	
100.00		653.06	0.67	-0.08	0.02	-14.91	
105.00		634.49	0.74	-0.10	0.04	-18.03	
110.00		615.93	0.81	-0.11	0.06	-18.81	
115.00		597.36	0.89	-0.12	0.08	-17.25	
120.00		578.80	0.96	-0.12	0.11	-13.48	
123.25	Bot - Section 4	366.26	1.02	-0.11	0.14	-6.43	
125.00		351.80	1.05	-0.10	0.16	-4.86	
127.50	Top - Section 3	495.47	1.09	-0.08	0.18	-3.76	
130.00		218.61	1.13	-0.05	0.21	-0.09	
135.00		426.08	1.22	0.02	0.27	7.20	
140.00		411.22	1.31	0.14	0.35	15.67	
145.00		396.37	1.41	0.30	0.44	25.08	
147.00	Appurtenance(s)	2261.1	1.45	0.38	0.48	168.38	
150.00		227.13	1.51	0.52	0.55	21.00	
155.00		366.67	1.61	0.81	0.68	46.10	
157.00	Appurtenance(s)	2569.7	1.65	0.94	0.74	360.21	
160.00		209.31	1.71	1.18	0.84	34.14	
165.00		336.96	1.82	1.65	1.02	69.00	
167.00	Appurtenance(s)	1882.6	1.87	1.86	1.10	419.09	
168.00	Appurtenance(s)	99.42	1.89	1.98	1.14	23.05	
Totals:		35,964.7				1,638.1	Total Wind: 31,159.9

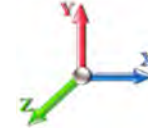
Seismic Base Shear is Less Than 50% of Wind Force - An Analysis is NOT Required

Calculated Forces

Structure: CT02217-S-SBA	Code: EIA/TIA-222-G	3/21/2018
Site Name: Pomfret School	Exposure: C	
Height: 168.00 (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 + 1.0E							Iterations 22
Gust Response Factor	1.10			Sds	0.18	Ss	0.17
Dead Load Factor	1.20	Seismic Load Factor	1.00	Sd1	0.10	S1	0.06
Wind Load Factor	0.00	Structure Frequency	0.38	SA	0.04	Seismic Importance Factor	1.00

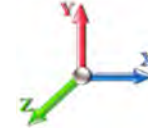
Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-49.18	-1.75	0.00	-220.31	0.00	220.31	5501.01	2750.51	13262.9	6641.33	0.00	0.00	0.00	0.042
5.00	-47.45	-1.74	0.00	-211.56	0.00	211.56	5435.34	2717.67	12856.9	6438.04	0.00	-0.01	0.042	
10.00	-45.64	-1.71	0.00	-202.88	0.00	202.88	5368.23	2684.11	12453.6	6236.09	0.02	-0.02	0.041	
15.00	-43.86	-1.68	0.00	-194.32	0.00	194.32	5299.69	2649.84	12053.2	6035.57	0.04	-0.03	0.040	
20.00	-42.10	-1.65	0.00	-185.91	0.00	185.91	5229.71	2614.86	11655.8	5836.57	0.07	-0.04	0.040	
25.00	-40.38	-1.62	0.00	-177.65	0.00	177.65	5158.30	2579.15	11261.6	5639.20	0.12	-0.04	0.039	
30.00	-38.69	-1.58	0.00	-169.56	0.00	169.56	5085.46	2542.73	10870.9	5443.55	0.17	-0.05	0.039	
35.00	-37.04	-1.55	0.00	-161.64	0.00	161.64	5011.18	2505.59	10483.8	5249.72	0.23	-0.06	0.038	
40.00	-35.41	-1.51	0.00	-153.89	0.00	153.89	4935.46	2467.73	10100.6	5057.82	0.30	-0.07	0.038	
42.75	-34.53	-1.49	0.00	-149.73	0.00	149.73	4893.21	2446.61	9891.54	4953.12	0.35	-0.08	0.037	
45.00	-33.27	-1.46	0.00	-146.36	0.00	146.36	4858.32	2429.16	9721.41	4867.93	0.38	-0.08	0.037	
49.00	-31.06	-1.41	0.00	-140.51	0.00	140.51	3959.59	1979.80	7922.06	3966.92	0.46	-0.09	0.043	
50.00	-30.79	-1.40	0.00	-139.11	0.00	139.11	3948.01	1974.01	7862.92	3937.31	0.48	-0.09	0.043	
55.00	-29.42	-1.37	0.00	-132.10	0.00	132.10	3889.26	1944.63	7568.72	3789.99	0.58	-0.10	0.042	
60.00	-28.09	-1.34	0.00	-125.24	0.00	125.24	3829.07	1914.54	7277.15	3643.98	0.70	-0.12	0.042	
65.00	-26.78	-1.32	0.00	-118.52	0.00	118.52	3767.45	1883.72	6988.40	3499.39	0.82	-0.13	0.041	
70.00	-25.50	-1.29	0.00	-111.93	0.00	111.93	3704.39	1852.20	6702.67	3356.32	0.96	-0.14	0.040	
75.00	-24.24	-1.28	0.00	-105.46	0.00	105.46	3639.90	1819.95	6420.16	3214.85	1.12	-0.15	0.039	
80.00	-23.02	-1.26	0.00	-99.07	0.00	99.07	3573.98	1786.99	6141.06	3075.10	1.28	-0.16	0.039	
82.50	-22.41	-1.26	0.00	-95.91	0.00	95.91	3540.48	1770.24	6002.85	3005.89	1.37	-0.17	0.038	
85.00	-21.39	-1.26	0.00	-92.76	0.00	92.76	3506.62	1753.31	5865.57	2937.15	1.46	-0.18	0.038	
87.75	-20.28	-1.25	0.00	-89.31	0.00	89.31	2761.71	1380.86	4636.01	2321.45	1.56	-0.18	0.046	
90.00	-19.82	-1.26	0.00	-86.49	0.00	86.49	2740.07	1370.04	4543.51	2275.13	1.65	-0.19	0.045	
95.00	-18.82	-1.26	0.00	-80.21	0.00	80.21	2690.94	1345.47	4339.45	2172.95	1.86	-0.20	0.044	
100.00	-17.84	-1.26	0.00	-73.93	0.00	73.93	2640.38	1320.19	4137.62	2071.89	2.08	-0.22	0.042	
105.00	-16.88	-1.26	0.00	-67.63	0.00	67.63	2588.38	1294.19	3938.22	1972.04	2.32	-0.23	0.041	
110.00	-15.94	-1.26	0.00	-61.34	0.00	61.34	2534.95	1267.48	3741.44	1873.50	2.57	-0.25	0.039	
115.00	-15.03	-1.26	0.00	-55.05	0.00	55.05	2480.09	1240.04	3547.48	1776.38	2.83	-0.26	0.037	
120.00	-14.14	-1.26	0.00	-48.76	0.00	48.76	2423.79	1211.90	3356.53	1680.76	3.11	-0.28	0.035	
123.25	-13.57	-1.26	0.00	-44.67	0.00	44.67	2386.43	1193.21	3234.12	1619.46	3.30	-0.28	0.033	
125.00	-13.08	-1.25	0.00	-42.47	0.00	42.47	2366.06	1183.03	3168.79	1586.75	3.41	-0.29	0.032	
127.50	-12.38	-1.25	0.00	-39.33	0.00	39.33	1766.99	883.49	2371.88	1187.70	3.56	-0.30	0.040	
130.00	-12.02	-1.25	0.00	-36.20	0.00	36.20	1747.69	873.85	2306.16	1154.80	3.72	-0.30	0.038	
135.00	-11.31	-1.24	0.00	-29.94	0.00	29.94	1708.02	854.01	2176.01	1089.62	4.04	-0.32	0.034	
140.00	-10.62	-1.23	0.00	-23.71	0.00	23.71	1666.92	833.46	2047.71	1025.37	4.38	-0.33	0.030	
145.00	-9.95	-1.20	0.00	-17.58	0.00	17.58	1624.39	812.19	1921.45	962.15	4.73	-0.34	0.024	
147.00	-7.16	-1.02	0.00	-15.18	0.00	15.18	1606.97	803.49	1871.57	937.18	4.88	-0.34	0.021	
150.00	-6.81	-0.99	0.00	-12.13	0.00	12.13	1580.42	790.21	1797.44	900.06	5.09	-0.35	0.018	
155.00	-6.25	-0.94	0.00	-7.16	0.00	7.16	1535.02	767.51	1675.88	839.18	5.46	-0.36	0.013	
157.00	-3.12	-0.56	0.00	-5.28	0.00	5.28	1516.46	758.23	1627.98	815.20	5.61	-0.36	0.009	
160.00	-2.84	-0.53	0.00	-3.58	0.00	3.58	1488.18	744.09	1556.95	779.63	5.84	-0.36	0.007	
165.00	-2.40	-0.46	0.00	-0.94	0.00	0.94	1439.00	719.50	1439.93	721.04	6.21	-0.36	0.003	
167.00	-0.12	-0.02	0.00	-0.02	0.00	0.02	1413.06	706.53	1388.23	695.14	6.37	-0.36	0.000	
168.00	0.00	-0.02	0.00	0.00	0.00	0.00	1400.09	700.04	1362.73	682.38	6.44	-0.36	0.000	

Seismic Segment Forces (Factored)

Structure: CT02217-S-SBA	Code: EIA/TIA-222-G	3/21/2018
Site Name: Pomfret School	Exposure: C	
Height: 168.00 (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 + 1.0E						Iterations 22
Gust Response Factor	1.10			Sds	0.18	Ss 0.17
Dead Load Factor	0.90	Seismic Load Factor	1.00	Sd1	0.10	S1 0.06
Wind Load Factor	0.00	Structure Frequency	0.38	SA	0.04	Seismic Importance Factor 1.00

Top Elev (ft)	Description	Wz (lb)	a	b	c	Lateral Fs (lb)	R: 1.50
0.00		0.00	0.00	0.00	0.00	0.00	
5.00		1372.6	0.00	0.03	0.02	20.57	
10.00		1346.6	0.01	0.05	0.03	30.44	
15.00		1320.6	0.02	0.06	0.04	35.29	
20.00		1294.7	0.03	0.07	0.04	37.55	
25.00		1268.7	0.04	0.07	0.04	38.49	
30.00		1242.7	0.06	0.07	0.04	38.82	
35.00		1216.7	0.08	0.07	0.04	38.92	
40.00		1190.7	0.11	0.07	0.04	38.94	
42.75	Bot - Section 2	643.83	0.12	0.07	0.03	21.30	
45.00		974.82	0.14	0.07	0.03	32.53	
49.00	Top - Section 1	1708.8	0.16	0.07	0.03	57.72	
50.00		196.72	0.17	0.07	0.03	6.66	
55.00		970.25	0.20	0.06	0.02	32.91	
60.00		947.97	0.24	0.06	0.02	31.51	
65.00		925.69	0.28	0.05	0.01	29.06	
70.00		903.42	0.33	0.04	0.01	25.26	
75.00		881.14	0.38	0.03	0.01	19.89	
80.00		858.86	0.43	0.01	0.01	12.95	
82.50	Bot - Section 3	421.08	0.46	0.00	0.01	4.47	
85.00		767.56	0.48	-0.01	0.01	4.44	
87.75	Top - Section 2	832.52	0.52	-0.02	0.01	0.15	
90.00		308.29	0.54	-0.03	0.01	-1.39	
95.00		671.62	0.60	-0.05	0.02	-9.73	
100.00		653.06	0.67	-0.08	0.02	-14.91	
105.00		634.49	0.74	-0.10	0.04	-18.03	
110.00		615.93	0.81	-0.11	0.06	-18.81	
115.00		597.36	0.89	-0.12	0.08	-17.25	
120.00		578.80	0.96	-0.12	0.11	-13.48	
123.25	Bot - Section 4	366.26	1.02	-0.11	0.14	-6.43	
125.00		351.80	1.05	-0.10	0.16	-4.86	
127.50	Top - Section 3	495.47	1.09	-0.08	0.18	-3.76	
130.00		218.61	1.13	-0.05	0.21	-0.09	
135.00		426.08	1.22	0.02	0.27	7.20	
140.00		411.22	1.31	0.14	0.35	15.67	
145.00		396.37	1.41	0.30	0.44	25.08	
147.00	Appurtenance(s)	2261.1	1.45	0.38	0.48	168.38	
150.00		227.13	1.51	0.52	0.55	21.00	
155.00		366.67	1.61	0.81	0.68	46.10	
157.00	Appurtenance(s)	2569.7	1.65	0.94	0.74	360.21	
160.00		209.31	1.71	1.18	0.84	34.14	
165.00		336.96	1.82	1.65	1.02	69.00	
167.00	Appurtenance(s)	1882.6	1.87	1.86	1.10	419.09	
168.00	Appurtenance(s)	99.42	1.89	1.98	1.14	23.05	
Totals:		35,964.7				1,638.1	Total Wind: 31,159.9

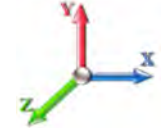
Seismic Base Shear is Less Than 50% of Wind Force - An Analysis is NOT Required

Calculated Forces

Structure: CT02217-S-SBA	Code: EIA/TIA-222-G	3/21/2018
Site Name: Pomfret School	Exposure: C	
Height: 168.00 (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 + 1.0E							Iterations 22
Gust Response Factor	1.10			Sds	0.18	Ss	0.17
Dead Load Factor	0.90	Seismic Load Factor	1.00	Sd1	0.10	S1	0.06
Wind Load Factor	0.00	Structure Frequency	0.38	SA	0.04	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	-36.88	-1.75	0.00	-218.13	0.00	218.13	5501.01	2750.51	13262.9	6641.33	0.00	0.00	0.00	0.040
5.00	-35.59	-1.73	0.00	-209.39	0.00	209.39	5435.34	2717.67	12856.9	6438.04	0.00	-0.01	0.039	
10.00	-34.23	-1.71	0.00	-200.72	0.00	200.72	5368.23	2684.11	12453.6	6236.09	0.02	-0.02	0.039	
15.00	-32.89	-1.68	0.00	-192.18	0.00	192.18	5299.69	2649.84	12053.2	6035.57	0.04	-0.03	0.038	
20.00	-31.58	-1.64	0.00	-183.80	0.00	183.80	5229.71	2614.86	11655.8	5836.57	0.07	-0.04	0.038	
25.00	-30.29	-1.61	0.00	-175.58	0.00	175.58	5158.30	2579.15	11261.6	5639.20	0.12	-0.04	0.037	
30.00	-29.02	-1.57	0.00	-167.53	0.00	167.53	5085.46	2542.73	10870.9	5443.55	0.17	-0.05	0.036	
35.00	-27.78	-1.54	0.00	-159.66	0.00	159.66	5011.18	2505.59	10483.8	5249.72	0.23	-0.06	0.036	
40.00	-26.56	-1.50	0.00	-151.97	0.00	151.97	4935.46	2467.73	10100.6	5057.82	0.30	-0.07	0.035	
42.75	-25.90	-1.48	0.00	-147.84	0.00	147.84	4893.21	2446.61	9891.54	4953.12	0.34	-0.08	0.035	
45.00	-24.95	-1.45	0.00	-144.51	0.00	144.51	4858.32	2429.16	9721.41	4867.93	0.38	-0.08	0.035	
49.00	-23.30	-1.39	0.00	-138.71	0.00	138.71	3959.59	1979.80	7922.06	3966.92	0.45	-0.09	0.041	
50.00	-23.09	-1.39	0.00	-137.32	0.00	137.32	3948.01	1974.01	7862.92	3937.31	0.47	-0.09	0.041	
55.00	-22.07	-1.36	0.00	-130.38	0.00	130.38	3889.26	1944.63	7568.72	3789.99	0.57	-0.10	0.040	
60.00	-21.07	-1.33	0.00	-123.59	0.00	123.59	3829.07	1914.54	7277.15	3643.98	0.69	-0.11	0.039	
65.00	-20.08	-1.30	0.00	-116.95	0.00	116.95	3767.45	1883.72	6988.40	3499.39	0.81	-0.13	0.039	
70.00	-19.12	-1.28	0.00	-110.44	0.00	110.44	3704.39	1852.20	6702.67	3356.32	0.95	-0.14	0.038	
75.00	-18.18	-1.26	0.00	-104.05	0.00	104.05	3639.90	1819.95	6420.16	3214.85	1.10	-0.15	0.037	
80.00	-17.26	-1.25	0.00	-97.75	0.00	97.75	3573.98	1786.99	6141.06	3075.10	1.27	-0.16	0.037	
82.50	-16.81	-1.24	0.00	-94.64	0.00	94.64	3540.48	1770.24	6002.85	3005.89	1.35	-0.17	0.036	
85.00	-16.04	-1.24	0.00	-91.53	0.00	91.53	3506.62	1753.31	5865.57	2937.15	1.44	-0.17	0.036	
87.75	-15.21	-1.24	0.00	-88.13	0.00	88.13	2761.71	1380.86	4636.01	2321.45	1.55	-0.18	0.043	
90.00	-14.87	-1.24	0.00	-85.34	0.00	85.34	2740.07	1370.04	4543.51	2275.13	1.63	-0.19	0.043	
95.00	-14.11	-1.24	0.00	-79.15	0.00	79.15	2690.94	1345.47	4339.45	2172.95	1.84	-0.20	0.042	
100.00	-13.38	-1.24	0.00	-72.95	0.00	72.95	2640.38	1320.19	4137.62	2071.89	2.05	-0.22	0.040	
105.00	-12.66	-1.24	0.00	-66.75	0.00	66.75	2588.38	1294.19	3938.22	1972.04	2.29	-0.23	0.039	
110.00	-11.96	-1.24	0.00	-60.55	0.00	60.55	2534.95	1267.48	3741.44	1873.50	2.54	-0.24	0.037	
115.00	-11.27	-1.24	0.00	-54.35	0.00	54.35	2480.09	1240.04	3547.48	1776.38	2.80	-0.26	0.035	
120.00	-10.60	-1.24	0.00	-48.15	0.00	48.15	2423.79	1211.90	3356.53	1680.76	3.08	-0.27	0.033	
123.25	-10.17	-1.24	0.00	-44.12	0.00	44.12	2386.43	1193.21	3234.12	1619.46	3.26	-0.28	0.032	
125.00	-9.81	-1.24	0.00	-41.96	0.00	41.96	2366.06	1183.03	3168.79	1586.75	3.37	-0.29	0.031	
127.50	-9.29	-1.24	0.00	-38.86	0.00	38.86	1766.99	883.49	2371.88	1187.70	3.52	-0.29	0.038	
130.00	-9.02	-1.24	0.00	-35.77	0.00	35.77	1747.69	873.85	2306.16	1154.80	3.67	-0.30	0.036	
135.00	-8.48	-1.23	0.00	-29.59	0.00	29.59	1708.02	854.01	2176.01	1089.62	3.99	-0.31	0.032	
140.00	-7.96	-1.21	0.00	-23.45	0.00	23.45	1666.92	833.46	2047.71	1025.37	4.33	-0.32	0.028	
145.00	-7.46	-1.18	0.00	-17.39	0.00	17.39	1624.39	812.19	1921.45	962.15	4.67	-0.34	0.023	
147.00	-5.37	-1.00	0.00	-15.02	0.00	15.02	1606.97	803.49	1871.57	937.18	4.82	-0.34	0.019	
150.00	-5.11	-0.98	0.00	-12.01	0.00	12.01	1580.42	790.21	1797.44	900.06	5.03	-0.34	0.017	
155.00	-4.69	-0.93	0.00	-7.10	0.00	7.10	1535.02	767.51	1675.88	839.18	5.40	-0.35	0.012	
157.00	-2.34	-0.56	0.00	-5.23	0.00	5.23	1516.46	758.23	1627.98	815.20	5.54	-0.35	0.008	
160.00	-2.13	-0.52	0.00	-3.55	0.00	3.55	1488.18	744.09	1556.95	779.63	5.77	-0.35	0.006	
165.00	-1.80	-0.45	0.00	-0.93	0.00	0.93	1439.00	719.50	1439.93	721.04	6.14	-0.36	0.003	
167.00	-0.09	-0.02	0.00	-0.02	0.00	0.02	1413.06	706.53	1388.23	695.14	6.29	-0.36	0.000	
168.00	0.00	-0.02	0.00	0.00	0.00	0.00	1400.09	700.04	1362.73	682.38	6.36	-0.36	0.000	

Wind Loading - Shaft

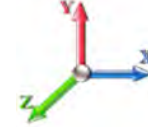
Structure: CT02217-S-SBA	Code: EIA/TIA-222-G	3/21/2018
Site Name: Pomfret School	Exposure: C	
Height: 168.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



Load Case: 1.0D + 1.0W 60 mph Wind

Iterations 23

Dead Load Factor 1.00
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		1.00	0.85	7.442	8.19	276.59	0.650	0.000	0.00	0.000	0.00	0.0	0.0	0.0
5.00		1.00	0.85	7.442	8.19	271.44	0.650	0.000	5.00	24.768	16.10	131.8	0.0	1372.7
10.00		1.00	0.85	7.442	8.19	266.29	0.650	0.000	5.00	24.302	15.80	129.3	0.0	1346.7
15.00		1.00	0.85	7.442	8.19	261.14	0.650	0.000	5.00	23.837	15.49	126.8	0.0	1320.7
20.00		1.00	0.90	7.896	8.69	263.69	0.650	0.000	5.00	23.372	15.19	132.0	0.0	1294.7
25.00		1.00	0.95	8.276	9.10	264.53	0.650	0.000	5.00	22.906	14.89	135.5	0.0	1268.7
30.00		1.00	0.98	8.600	9.46	264.12	0.650	0.000	5.00	22.441	14.59	138.0	0.0	1242.7
35.00		1.00	1.01	8.883	9.77	262.81	0.650	0.000	5.00	21.975	14.28	139.6	0.0	1216.7
40.00		1.00	1.04	9.137	10.05	260.83	0.650	0.000	5.00	21.510	13.98	140.5	0.0	1190.7
42.75	Bot - Section 2	1.00	1.06	9.266	10.19	259.50	0.650	0.000	2.75	11.632	7.56	77.1	0.0	643.8
45.00		1.00	1.07	9.366	10.30	258.30	0.650	0.000	2.25	9.555	6.21	64.0	0.0	974.8
49.00	Top - Section 1	1.00	1.09	9.536	10.49	255.97	0.650	0.000	4.00	16.754	10.89	114.2	0.0	1708.9
50.00		1.00	1.09	9.576	10.53	259.33	0.650	0.000	1.00	4.142	2.69	28.4	0.0	196.7
55.00		1.00	1.12	9.770	10.75	256.04	0.650	0.000	5.00	20.431	13.28	142.7	0.0	970.2
60.00		1.00	1.14	9.951	10.95	252.44	0.650	0.000	5.00	19.965	12.98	142.1	0.0	948.0
65.00		1.00	1.16	10.120	11.13	248.57	0.650	0.000	5.00	19.500	12.67	141.1	0.0	925.7
70.00		1.00	1.17	10.279	11.31	244.47	0.650	0.000	5.00	19.034	12.37	139.9	0.0	903.4
75.00		1.00	1.19	10.430	11.47	240.15	0.650	0.000	5.00	18.569	12.07	138.5	0.0	881.1
80.00		1.00	1.21	10.572	11.63	235.65	0.650	0.000	5.00	18.103	11.77	136.8	0.0	858.9
82.50	Bot - Section 3	1.00	1.22	10.641	11.71	233.34	0.650	0.000	2.50	8.877	5.77	67.5	0.0	421.1
85.00		1.00	1.22	10.708	11.78	230.98	0.650	0.000	2.50	8.893	5.78	68.1	0.0	767.6
87.75	Top - Section 2	1.00	1.23	10.780	11.86	228.35	0.650	0.000	2.75	9.648	6.27	74.4	0.0	832.5
90.00		1.00	1.24	10.838	11.92	229.69	0.650	0.000	2.25	7.789	5.06	60.4	0.0	308.3
95.00		1.00	1.25	10.962	12.06	224.75	0.650	0.000	5.00	16.971	11.03	133.0	0.0	671.6
100.00		1.00	1.27	11.081	12.19	219.69	0.650	0.000	5.00	16.506	10.73	130.8	0.0	653.1
105.00		1.00	1.28	11.195	12.31	214.50	0.650	0.000	5.00	16.040	10.43	128.4	0.0	634.5
110.00		1.00	1.29	11.305	12.44	209.21	0.650	0.000	5.00	15.575	10.12	125.9	0.0	615.9
115.00		1.00	1.30	11.412	12.55	203.81	0.650	0.000	5.00	15.109	9.82	123.3	0.0	597.4
120.00		1.00	1.32	11.514	12.67	198.32	0.650	0.000	5.00	14.644	9.52	120.6	0.0	578.8
123.25	Bot - Section 4	1.00	1.32	11.579	12.74	194.70	0.650	0.000	3.25	9.269	6.02	76.7	0.0	366.3
125.00		1.00	1.33	11.614	12.78	192.74	0.650	0.000	1.75	4.984	3.24	41.4	0.0	351.8
127.50	Top - Section 3	1.00	1.33	11.662	12.83	189.92	0.650	0.000	2.50	7.020	4.56	58.5	0.0	495.5
130.00		1.00	1.34	11.710	12.88	190.01	0.650	0.000	2.50	6.904	4.49	57.8	0.0	218.6
135.00		1.00	1.35	11.803	12.98	184.29	0.650	0.000	5.00	13.459	8.75	113.6	0.0	426.1
140.00		1.00	1.36	11.894	13.08	178.48	0.650	0.000	5.00	12.994	8.45	110.5	0.0	411.2
145.00		1.00	1.37	11.982	13.18	172.61	0.650	0.000	5.00	12.528	8.14	107.3	0.0	396.4
147.00	Appurtenance(s)	1.00	1.37	12.017	13.22	170.24	0.650	0.000	2.00	4.881	3.17	41.9	0.0	154.4
150.00		1.00	1.38	12.068	13.27	166.67	0.650	0.000	3.00	7.182	4.67	62.0	0.0	227.1
155.00		1.00	1.39	12.152	13.37	160.66	0.650	0.000	5.00	11.597	7.54	100.8	0.0	366.7
157.00	Appurtenance(s)	1.00	1.39	12.185	13.40	158.24	0.650	0.000	2.00	4.509	2.93	39.3	0.0	142.5
160.00		1.00	1.40	12.233	13.46	154.60	0.650	0.000	3.00	6.623	4.31	57.9	0.0	209.3
165.00		1.00	1.41	12.313	13.54	148.48	0.650	0.000	5.00	10.666	6.93	93.9	0.0	337.0
167.00	Appurtenance(s)	1.00	1.41	12.344	13.58	146.01	0.650	0.000	2.00	4.136	2.69	36.5	0.0	130.6
168.00	Appurtenance(s)	1.00	1.41	12.360	13.60	144.78	0.650	0.000	1.00	2.040	1.33	18.0	0.0	64.4
Totals:									168.00			4,246.7		29,643.8

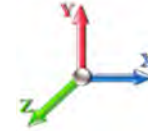
Discrete Appurtenance Forces

Structure: CT02217-S-SBA	Code: EIA/TIA-222-G	3/21/2018
Site Name: Pomfret School	Exposure: C	
Height: 168.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II
		Page: 31



Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00
Wind Load Factor 1.00



Iterations 23

No.	Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	CaAa 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	168.00	Lightning Rod	1	12.398	13.638	1.00	1.00	1.05	35.00	0.000	2.500	14.32	0.00	35.80
2	167.00	Low Profile Platform	1	12.344	13.578	1.00	1.00	22.00	1500.00	0.000	0.000	298.73	0.00	0.00
3	167.00	Decibel DB908H90E-M w/	6	12.344	13.578	0.74	1.00	17.27	252.00	0.000	0.000	234.52	0.00	0.00
4	157.00	Low Profile Platform	1	12.185	13.403	1.00	1.00	22.00	1500.00	0.000	0.000	294.87	0.00	0.00
5	157.00	RFS DB-T1-6Z-8AB-OZ	1	12.185	13.403	1.00	1.00	4.80	44.00	0.000	0.000	64.33	0.00	0.00
6	157.00	ALU RRH2x60-AWS	3	12.185	13.403	0.54	0.80	5.63	180.00	0.000	0.000	75.43	0.00	0.00
7	157.00	ALU RRH2x60-700	3	12.185	13.403	0.54	0.80	3.59	180.00	0.000	0.000	48.06	0.00	0.00
8	157.00	Commscope	3	12.185	13.403	0.66	0.80	16.27	116.40	0.000	0.000	218.13	0.00	0.00
9	157.00	Commscope	6	12.185	13.403	0.62	0.80	31.60	244.80	0.000	0.000	423.55	0.00	0.00
10	157.00	Amphenol	3	12.185	13.403	0.66	0.80	16.27	162.00	0.000	0.000	218.13	0.00	0.00
11	147.00	Low Profile Platform w/	1	12.017	13.219	1.00	1.00	25.00	1800.00	0.000	0.000	330.47	0.00	0.00
12	147.00	Fastback IBR1300	1	12.017	13.219	0.54	0.80	0.36	8.82	0.000	0.000	4.75	0.00	0.00
13	147.00	Kathrein 782 11056	3	12.017	13.219	0.54	0.80	0.45	5.40	0.000	0.000	5.95	0.00	0.00
14	147.00	Ericsson KRY 112 144/1	3	12.017	13.219	0.54	0.80	0.66	33.00	0.000	0.000	8.71	0.00	0.00
15	147.00	Allen Telecom	3	12.017	13.219	0.54	0.80	0.87	52.50	0.000	0.000	11.48	0.00	0.00
16	147.00	Commscope	3	12.017	13.219	0.64	0.80	22.02	150.90	0.000	0.000	291.11	0.00	0.00
17	147.00	RFS	3	12.017	13.219	0.58	0.80	6.32	56.10	0.000	0.000	83.60	0.00	0.00
Totals:									6,320.92			2,626.14		

Total Applied Force Summary

Structure: CT02217-S-SBA	Code: EIA/TIA-222-G	3/21/2018
Site Name: Pomfret School	Exposure: C	
Height: 168.00 (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 23

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
5.00		131.79	1438.50	0.00	0.00
10.00		129.31	1511.25	0.00	0.00
15.00		126.84	1485.26	0.00	0.00
20.00		131.95	1459.27	0.00	0.00
25.00		135.54	1433.27	0.00	0.00
30.00		137.98	1407.28	0.00	0.00
35.00		139.58	1381.29	0.00	0.00
40.00		140.52	1355.30	0.00	0.00
42.75		77.06	734.34	0.00	0.00
45.00		63.99	1048.88	0.00	0.00
49.00		114.23	1840.54	0.00	0.00
50.00		28.36	229.64	0.00	0.00
55.00		142.72	1134.81	0.00	0.00
60.00		142.05	1112.54	0.00	0.00
65.00		141.10	1090.26	0.00	0.00
70.00		139.89	1067.98	0.00	0.00
75.00		138.47	1045.70	0.00	0.00
80.00		136.85	1023.42	0.00	0.00
82.50		67.54	503.36	0.00	0.00
85.00		68.09	849.84	0.00	0.00
87.75		74.36	923.03	0.00	0.00
90.00		60.36	382.34	0.00	0.00
95.00		133.01	836.19	0.00	0.00
100.00		130.77	817.62	0.00	0.00
105.00		128.40	799.06	0.00	0.00
110.00		125.90	780.49	0.00	0.00
115.00		123.28	761.93	0.00	0.00
120.00		120.56	743.36	0.00	0.00
123.25		76.74	473.23	0.00	0.00
125.00		41.38	409.40	0.00	0.00
127.50		58.54	577.76	0.00	0.00
130.00		57.81	300.89	0.00	0.00
135.00		113.59	590.64	0.00	0.00
140.00		110.50	575.79	0.00	0.00
145.00		107.33	560.94	0.00	0.00
147.00	(17) attachments	778.00	2326.94	0.00	0.00
150.00		61.97	287.41	0.00	0.00
155.00		100.76	467.13	0.00	0.00
157.00	(20) attachments	1381.78	2609.89	0.00	0.00
160.00		57.93	231.97	0.00	0.00
165.00		93.90	374.73	0.00	0.00
167.00	(7) attachments	569.75	1897.73	0.00	0.00
168.00	(1) attachments	32.35	100.74	0.00	35.80
Totals:		6,872.83	40,981.92	0.00	35.80

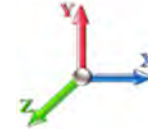
Linear Appurtenance Segment Forces (Factored)

Structure: CT02217-S-SBA	Code: EIA/TIA-222-G	3/21/2018
Site Name: Pomfret School	Exposure: C	
Height: 168.00 (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

Dead Load Factor 1.00
Wind Load Factor 1.00



Iterations 23

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)
5.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.003	0.000	7.442	0.00	0.55
5.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.003	0.000	7.442	0.00	2.08
10.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.007	0.000	7.442	0.00	1.37
10.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.007	0.000	7.442	0.00	5.20
15.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.007	0.000	7.442	0.00	1.37
15.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.007	0.000	7.442	0.00	5.20
20.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.007	0.000	7.896	0.00	1.37
20.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.007	0.000	7.896	0.00	5.20
25.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.007	0.000	8.276	0.00	1.37
25.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.007	0.000	8.276	0.00	5.20
30.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.007	0.000	8.600	0.00	1.37
30.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.007	0.000	8.600	0.00	5.20
35.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.007	0.000	8.883	0.00	1.37
35.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.007	0.000	8.883	0.00	5.20
40.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.007	0.000	9.137	0.00	1.37
40.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.007	0.000	9.137	0.00	5.20
42.75	Safety Cable	Yes	2.75	0.000	0.38	0.09	0.00	0.007	0.000	9.266	0.00	0.75
42.75	Step bolts (ladder)	Yes	2.75	0.000	0.00	0.00	0.00	0.007	0.000	9.266	0.00	2.86
45.00	Safety Cable	Yes	2.25	0.000	0.38	0.07	0.00	0.008	0.000	9.366	0.00	0.61
45.00	Step bolts (ladder)	Yes	2.25	0.000	0.00	0.00	0.00	0.008	0.000	9.366	0.00	2.34
49.00	Safety Cable	Yes	4.00	0.000	0.38	0.13	0.00	0.008	0.000	9.536	0.00	1.09
49.00	Step bolts (ladder)	Yes	4.00	0.000	0.00	0.00	0.00	0.008	0.000	9.536	0.00	4.16
50.00	Safety Cable	Yes	1.00	0.000	0.38	0.03	0.00	0.008	0.000	9.576	0.00	0.27
50.00	Step bolts (ladder)	Yes	1.00	0.000	0.00	0.00	0.00	0.008	0.000	9.576	0.00	1.04
55.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.008	0.000	9.770	0.00	1.37
55.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.008	0.000	9.770	0.00	5.20
60.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.008	0.000	9.951	0.00	1.37
60.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.008	0.000	9.951	0.00	5.20
65.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.008	0.000	10.120	0.00	1.37
65.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.008	0.000	10.120	0.00	5.20
70.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.008	0.000	10.279	0.00	1.37
70.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.008	0.000	10.279	0.00	5.20
75.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.009	0.000	10.430	0.00	1.37
75.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.009	0.000	10.430	0.00	5.20
80.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.009	0.000	10.572	0.00	1.37
80.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.009	0.000	10.572	0.00	5.20
82.50	Safety Cable	Yes	2.50	0.000	0.38	0.08	0.00	0.009	0.000	10.641	0.00	0.68
82.50	Step bolts (ladder)	Yes	2.50	0.000	0.00	0.00	0.00	0.009	0.000	10.641	0.00	2.60
85.00	Safety Cable	Yes	2.50	0.000	0.38	0.08	0.00	0.009	0.000	10.708	0.00	0.68
85.00	Step bolts (ladder)	Yes	2.50	0.000	0.00	0.00	0.00	0.009	0.000	10.708	0.00	2.60
87.75	Safety Cable	Yes	2.75	0.000	0.38	0.09	0.00	0.009	0.000	10.780	0.00	0.75
87.75	Step bolts (ladder)	Yes	2.75	0.000	0.00	0.00	0.00	0.009	0.000	10.780	0.00	2.86
90.00	Safety Cable	Yes	2.25	0.000	0.38	0.07	0.00	0.009	0.000	10.838	0.00	0.61
90.00	Step bolts (ladder)	Yes	2.25	0.000	0.00	0.00	0.00	0.009	0.000	10.838	0.00	2.34
95.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.009	0.000	10.962	0.00	1.37
95.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.009	0.000	10.962	0.00	5.20
100.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.010	0.000	11.081	0.00	1.37

Linear Appurtenance Segment Forces (Factored)

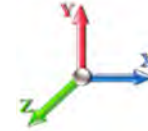
Structure: CT02217-S-SBA	Code: EIA/TIA-222-G	3/21/2018
Site Name: Pomfret School	Exposure: C	
Height: 168.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00
Wind Load Factor 1.00



Iterations 23

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)
100.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.010	0.000	11.081	0.00	5.20
105.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.010	0.000	11.195	0.00	1.37
105.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.010	0.000	11.195	0.00	5.20
110.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.010	0.000	11.305	0.00	1.37
110.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.010	0.000	11.305	0.00	5.20
115.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.010	0.000	11.412	0.00	1.37
115.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.010	0.000	11.412	0.00	5.20
120.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.011	0.000	11.514	0.00	1.37
120.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.011	0.000	11.514	0.00	5.20
123.25	Safety Cable	Yes	3.25	0.000	0.38	0.10	0.00	0.011	0.000	11.579	0.00	0.89
123.25	Step bolts (ladder)	Yes	3.25	0.000	0.00	0.00	0.00	0.011	0.000	11.579	0.00	3.38
125.00	Safety Cable	Yes	1.75	0.000	0.38	0.06	0.00	0.011	0.000	11.614	0.00	0.48
125.00	Step bolts (ladder)	Yes	1.75	0.000	0.00	0.00	0.00	0.011	0.000	11.614	0.00	1.82
127.50	Safety Cable	Yes	2.50	0.000	0.38	0.08	0.00	0.011	0.000	11.662	0.00	0.68
127.50	Step bolts (ladder)	Yes	2.50	0.000	0.00	0.00	0.00	0.011	0.000	11.662	0.00	2.60
130.00	Safety Cable	Yes	2.50	0.000	0.38	0.08	0.00	0.011	0.000	11.710	0.00	0.68
130.00	Step bolts (ladder)	Yes	2.50	0.000	0.00	0.00	0.00	0.011	0.000	11.710	0.00	2.60
135.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.012	0.000	11.803	0.00	1.37
135.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.012	0.000	11.803	0.00	5.20
140.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.012	0.000	11.894	0.00	1.37
140.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.012	0.000	11.894	0.00	5.20
145.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.013	0.000	11.982	0.00	1.37
145.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.013	0.000	11.982	0.00	5.20
147.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.013	0.000	12.017	0.00	0.55
147.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.013	0.000	12.017	0.00	2.08
150.00	Safety Cable	Yes	3.00	0.000	0.38	0.10	0.00	0.013	0.000	12.068	0.00	0.82
150.00	Step bolts (ladder)	Yes	3.00	0.000	0.00	0.00	0.00	0.013	0.000	12.068	0.00	3.12
155.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.014	0.000	12.152	0.00	1.37
155.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.014	0.000	12.152	0.00	5.20
157.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.014	0.000	12.185	0.00	0.55
157.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.014	0.000	12.185	0.00	2.08
160.00	Safety Cable	Yes	3.00	0.000	0.38	0.10	0.00	0.014	0.000	12.233	0.00	0.82
160.00	Step bolts (ladder)	Yes	3.00	0.000	0.00	0.00	0.00	0.014	0.000	12.233	0.00	3.12
165.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.015	0.000	12.313	0.00	1.37
165.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.015	0.000	12.313	0.00	5.20
167.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.015	0.000	12.344	0.00	0.55
167.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.015	0.000	12.344	0.00	2.08
168.00	Safety Cable	Yes	1.00	0.000	0.38	0.03	0.00	0.016	0.000	12.360	0.00	0.27
168.00	Step bolts (ladder)	Yes	1.00	0.000	0.00	0.00	0.00	0.016	0.000	12.360	0.00	1.04
Totals:											0.0	216.6

Calculated Forces

Structure: CT02217-S-SBA
Site Name: Pomfret School
Height: 168.00 (ft)
Base Elev: 0.000 (ft)
Gh: 1.1

Code: EIA/TIA-222-G
Exposure: C
Crest Height: 0.00
Site Class: D - Stiff Soil
Struct Class: II

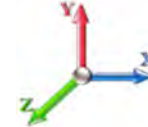
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Load Case: 1.0D + 1.0W 60 mph Wind

Iterations 23

Dead Load Factor 1.00
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	-40.98	-6.88	0.00	-779.67	0.00	779.67	5501.01	2750.51	13262.9	6641.33	0.00	0.000	0.000	0.125
5.00	-39.54	-6.77	0.00	-745.26	0.00	745.26	5435.34	2717.67	12856.9	6438.04	0.02	-0.031	0.000	0.123
10.00	-38.02	-6.66	0.00	-711.40	0.00	711.40	5368.23	2684.11	12453.6	6236.09	0.07	-0.062	0.000	0.121
15.00	-36.53	-6.55	0.00	-678.09	0.00	678.09	5299.69	2649.84	12053.2	6035.57	0.15	-0.093	0.000	0.119
20.00	-35.07	-6.44	0.00	-645.32	0.00	645.32	5229.71	2614.86	11655.8	5836.57	0.26	-0.125	0.000	0.117
25.00	-33.64	-6.32	0.00	-613.13	0.00	613.13	5158.30	2579.15	11261.6	5639.20	0.41	-0.157	0.000	0.115
30.00	-32.23	-6.19	0.00	-581.54	0.00	581.54	5085.46	2542.73	10870.9	5443.55	0.59	-0.189	0.000	0.113
35.00	-30.84	-6.07	0.00	-550.57	0.00	550.57	5011.18	2505.59	10483.8	5249.72	0.81	-0.221	0.000	0.111
40.00	-29.48	-5.93	0.00	-520.24	0.00	520.24	4935.46	2467.73	10100.6	5057.82	1.05	-0.254	0.000	0.109
42.75	-28.75	-5.86	0.00	-503.92	0.00	503.92	4893.21	2446.61	9891.54	4953.12	1.21	-0.273	0.000	0.108
45.00	-27.70	-5.80	0.00	-490.73	0.00	490.73	4858.32	2429.16	9721.41	4867.93	1.34	-0.288	0.000	0.107
49.00	-25.86	-5.69	0.00	-467.52	0.00	467.52	3959.59	1979.80	7922.06	3966.92	1.59	-0.315	0.000	0.124
50.00	-25.62	-5.67	0.00	-461.84	0.00	461.84	3948.01	1974.01	7862.92	3937.31	1.66	-0.321	0.000	0.124
55.00	-24.49	-5.53	0.00	-433.50	0.00	433.50	3889.26	1944.63	7568.72	3789.99	2.01	-0.359	0.000	0.121
60.00	-23.37	-5.40	0.00	-405.84	0.00	405.84	3829.07	1914.54	7277.15	3643.98	2.41	-0.396	0.000	0.117
65.00	-22.28	-5.26	0.00	-378.84	0.00	378.84	3767.45	1883.72	6988.40	3499.39	2.85	-0.434	0.000	0.114
70.00	-21.21	-5.13	0.00	-352.51	0.00	352.51	3704.39	1852.20	6702.67	3356.32	3.32	-0.471	0.000	0.111
75.00	-20.16	-5.00	0.00	-326.86	0.00	326.86	3639.90	1819.95	6420.16	3214.85	3.83	-0.509	0.000	0.107
80.00	-19.14	-4.86	0.00	-301.88	0.00	301.88	3573.98	1786.99	6141.06	3075.10	4.39	-0.546	0.000	0.104
82.50	-18.63	-4.79	0.00	-289.73	0.00	289.73	3540.48	1770.24	6002.85	3005.89	4.68	-0.565	0.000	0.102
85.00	-17.78	-4.72	0.00	-277.75	0.00	277.75	3506.62	1753.31	5865.57	2937.15	4.98	-0.584	0.000	0.100
87.75	-16.86	-4.64	0.00	-264.76	0.00	264.76	2761.71	1380.86	4636.01	2321.45	5.32	-0.605	0.000	0.120
90.00	-16.47	-4.59	0.00	-254.31	0.00	254.31	2740.07	1370.04	4543.51	2275.13	5.61	-0.622	0.000	0.118
95.00	-15.64	-4.46	0.00	-231.37	0.00	231.37	2690.94	1345.47	4339.45	2172.95	6.29	-0.664	0.000	0.112
100.00	-14.82	-4.33	0.00	-209.08	0.00	209.08	2640.38	1320.19	4137.62	2071.89	7.00	-0.705	0.000	0.107
105.00	-14.02	-4.20	0.00	-187.44	0.00	187.44	2588.38	1294.19	3938.22	1972.04	7.76	-0.746	0.000	0.100
110.00	-13.23	-4.07	0.00	-166.45	0.00	166.45	2534.95	1267.48	3741.44	1873.50	8.57	-0.785	0.000	0.094
115.00	-12.47	-3.95	0.00	-146.09	0.00	146.09	2480.09	1240.04	3547.48	1776.38	9.41	-0.824	0.000	0.087
120.00	-11.73	-3.82	0.00	-126.36	0.00	126.36	2423.79	1211.90	3356.53	1680.76	10.29	-0.860	0.000	0.080
123.25	-11.26	-3.74	0.00	-113.95	0.00	113.95	2386.43	1193.21	3234.12	1619.46	10.89	-0.883	0.000	0.075
125.00	-10.85	-3.70	0.00	-107.40	0.00	107.40	2366.06	1183.03	3168.79	1586.75	11.21	-0.895	0.000	0.072
127.50	-10.27	-3.63	0.00	-98.16	0.00	98.16	1766.99	883.49	2371.88	1187.70	11.69	-0.912	0.000	0.088
130.00	-9.97	-3.57	0.00	-89.09	0.00	89.09	1747.69	873.85	2306.16	1154.80	12.17	-0.928	0.000	0.083
135.00	-9.38	-3.45	0.00	-71.23	0.00	71.23	1708.02	854.01	2176.01	1089.62	13.16	-0.963	0.000	0.071
140.00	-8.80	-3.34	0.00	-53.96	0.00	53.96	1666.92	833.46	2047.71	1025.37	14.18	-0.992	0.000	0.058
145.00	-8.24	-3.22	0.00	-37.26	0.00	37.26	1624.39	812.19	1921.45	962.15	15.24	-1.017	0.000	0.044
147.00	-5.93	-2.40	0.00	-30.82	0.00	30.82	1606.97	803.49	1871.57	937.18	15.67	-1.025	0.000	0.037
150.00	-5.64	-2.34	0.00	-23.60	0.00	23.60	1580.42	790.21	1797.44	900.06	16.31	-1.035	0.000	0.030
155.00	-5.18	-2.23	0.00	-11.91	0.00	11.91	1535.02	767.51	1675.88	839.18	17.40	-1.047	0.000	0.018
157.00	-2.59	-0.80	0.00	-7.45	0.00	7.45	1516.46	758.23	1627.98	815.20	17.84	-1.050	0.000	0.011
160.00	-2.36	-0.74	0.00	-5.04	0.00	5.04	1488.18	744.09	1556.95	779.63	18.50	-1.053	0.000	0.008
165.00	-1.99	-0.64	0.00	-1.35	0.00	1.35	1439.00	719.50	1439.93	721.04	19.61	-1.055	0.000	0.003
167.00	-0.10	-0.03	0.00	-0.07	0.00	0.07	1413.06	706.53	1388.23	695.14	20.05	-1.056	0.000	0.000
168.00	0.00	-0.03	0.00	-0.04	0.00	0.04	1400.09	700.04	1362.73	682.38	20.27	-1.056	0.000	0.000

Final Analysis Summary

Structure: CT02217-S-SBA	Code: EIA/TIA-222-G	3/21/2018
Site Name: Pomfret School	Exposure: C	
Height: 168.00 (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 + 1.6W 101 mph Wind	31.2	0.00	49.14	0.00	0.00	3553.83
0.9D + 1.6W 101 mph Wind	31.2	0.00	36.84	0.00	0.00	3521.46
1.2D + 1.0Di + 1.0Wi 50 mph Wind	9.2	0.00	81.13	0.00	0.00	1058.59
1.2D + 1.0E	1.7	0.00	49.18	0.00	0.00	220.31
0.9D + 1.0E	1.7	0.00	36.88	0.00	0.00	218.13
1.0D + 1.0W 60 mph Wind	6.9	0.00	40.98	0.00	0.00	779.67

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 + 1.6W 101 mph Wind	-30.42	-25.91	0.00	-2134.5	0.00	-2134.5	3959.59	1979.8	7922.06	3966.92	49.00	0.546
0.9D + 1.6W 101 mph Wind	-22.66	-25.71	0.00	-2108.1	0.00	-2108.1	3959.59	1979.8	7922.06	3966.92	49.00	0.537
1.2D + 1.0Di + 1.0Wi 50 mph Wind	-55.96	-7.73	0.00	-638.76	0.00	-638.76	3959.59	1979.8	7922.06	3966.92	49.00	0.175
1.2D + 1.0E	-20.28	-1.25	0.00	-89.31	0.00	-89.31	2761.71	1380.8	4636.01	2321.45	87.75	0.046
0.9D + 1.0E	-15.21	-1.24	0.00	-88.13	0.00	-88.13	2761.71	1380.8	4636.01	2321.45	87.75	0.043
1.0D + 1.0W 60 mph Wind	-40.98	-6.88	0.00	-779.67	0.00	-779.67	5501.01	2750.5	13262.9	6641.33	0.00	0.125

Base Plate Summary

Structure: CT02217-S-SB	Code: EIA/TIA-222-G	3/21/2018
Site Name: Pomfret School	Exposure: C	
Height: 168.00 (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	Base Plate	Anchor Bolts
Original Design	Yield (ksi): 50.00	Bolt Circle: 66.00
Moment (kip-ft): 4750.00	Width (in): 65.00	Number Bolts: 20.00
Axial (kip): 38.00	Style: Clipped	Bolt Type: 2.25" 18J
Shear (kip): 37.50	Polygon Sides: 0.00	Bolt Diameter (in): 2.25
Analysis	Clip Length (in): 13.00	Yield (ksi): 75.00
Moment (kip-ft): 3553.83	Effective Len (in): 9.15	Ultimate (ksi): 100.00
Axial (kip): 81.13	Moment (kip-in): 460.51	Arrangement: Clustered
Shear (kip): 31.22	Allow Stress (ksi): 67.50	Cluster Dist (in): 6.00
	Applied Stress (ksi): 0.00	Start Angle (deg): 45.00
Moment Design %: 74.82	Stress Ratio: 0.50	Compression
		Force (kip): 133.29
		Allowable (kip): 260.00
		Ratio: 0.52
		Tension
		Force (kip): 125.17
		Allowable (kip): 260.00
		Ratio: 0.49



Monopole Mat Foundation Design

Date

3/21/2018

Customer Name:	T-Mobile	EIA/TIA Standard:	EIA-222-G
Site Name:	Pomfret School	Structure Height (Ft.):	168
Site Number:	CT02217-S-SBA	Engineer Name:	W. Velez
Engr. Number:	49821	Engineer Login ID:	

Foundation Info Obtained from:

Mapping Operation

Structure Type:

Monopole

Analysis or Design?

Analysis

Base Reactions (Factored):

Axial Load (Kips):	49.1	Shear Force (Kips):	31.2
Uplift Force (Kips):	0.0	Moment (Kips-ft):	3553.8

Allowable overstress %: 5.0%

Foundation Geometries:

Diameter of Pier (ft.):	9.0	Depth of Base BG (ft.):	6.8	Mods required -Yes/No ?:	No
Pier Height A. G. (ft.):	1.30	Thickness of Pad (ft):	3.30		
Length of Pad (ft.):	25.4	Width of Pad (ft.):	24.9		

Final Length of pad (ft)	25.4	Final width of pad (ft):	24.9
Control Value for Cell D18:	0	Control Value for Cell F18:	0

Material Properties and Reabr Info:

Concrete Strength (psi):	4000	Steel Elastic Modulus:	29000	ksi
Vertical bar yield (ksi)	60	Tie steel yield (ksi):	60	
Vertical Rebar Size #:	11	Tie / Stirrup Size #:	5	
Qty. of Vertical Rebars:	36	Tie Spacing (in):	12.0	
Pad Rebar Yield (Ksi):	60	Pad Steel Rebar Size (#):	11	
Concrete Cover (in.):	5	Unit Weight of Concrete:	150.0	pcf

Rebar at the bottom of the concrete pad:

Qty. of Rebar in Pad (L):	22	Qty. of Rebar in Pad (W):	22
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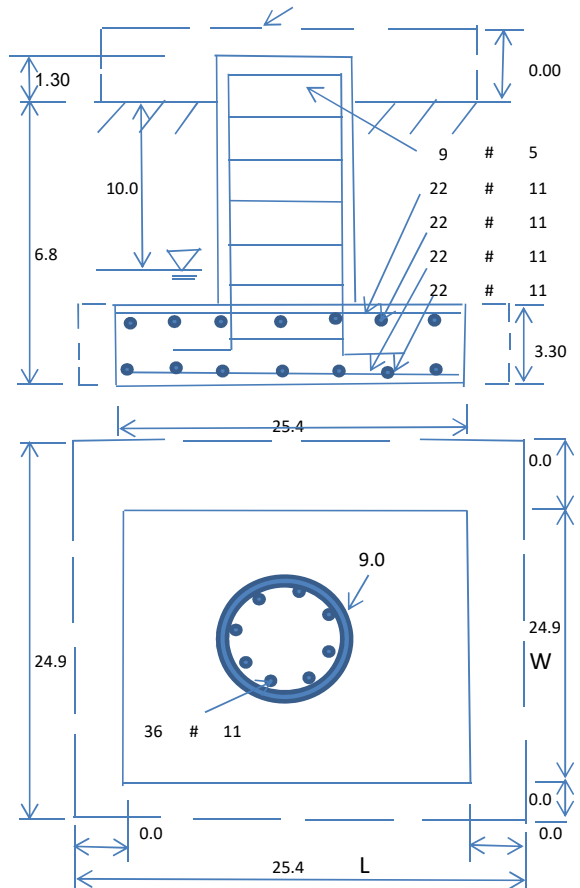
Rebar at the top of the concrete pad:

Qty. of Rebar in Pad (L):	22	Qty. of Rebar in Pad (W):	22
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Apply 1.35 factor for e/w Per G: 1.00

Soil Design Parameters:

Soil Unit Weight (pcf):	120.0	Soil Buoyant Weight:	57.6	Pcf	
Water Table B.G.S. (ft):	10.0	Unit Weight of Water:	62.4	pcf	Angle from Top of Pad: 30
Ultimate Bearing Pressure (psf):	30000	Ultimate Skin Friction:	0	Psf	Angle from Bottom of Pad: 25
Consider Friction for O.T.M. (Y/N):	No	Consider Friction for bearing (Y/N):	No		Angle from Bottom of Pad: 25
Consider soil hor. resist. for OTM.:	Yes	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.):	1990.95	Total Dry Soil Weight (Kips):	238.91
Total Buoyant Soil Volume (cu. Ft.):	0.00	Total Buoyant Soil Weight (Kips):	0.00
Total Effective Soil Weight (Kips):	238.91	Weight from the Concrete Block at Top (K):	0.00
Total Dry Concrete Volume (cu. Ft.):	2392.48	Total Dry Concrete Weight (Kips):	358.87
Total Buoyant Concrete Volume (cu. Ft.):	0.00	Total Buoyant Concrete Weight (Kips):	0.00
Total Effective Concrete Weight (Kips):	358.87	Total Vertical Load on Base (Kips):	646.93

Check Soil Capacities:

Calculated Maximum Net Soil Pressure under the base (psf):	2319	<	Allowable Factored Soil Bearing (psf):	22500	0.10	OK!
Allowable Foundation Overturning Resistance (kips-ft.):	7310.0	>	Design Factored Moment (kips-ft):	3579	0.49	OK!
Factor of Safety Against Overturning (O. R. Moment/Design Moment):	2.04					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):	1.56		Tie / Stirrup Area (sq. in./each):	0.31		
Calculated Moment Capacity (Mn,Kips-Ft):	12145.2	>	Design Factored Moment (Mu, Kips-Ft)	3703.6	0.30	OK!
Calculated Shear Capacity (Kips):	1136.9	>	Design Factored Shear (Kips):	31.2	0.03	OK!
Calculated Tension Capacity (Tn, Kips):	3032.6	>	Design Factored Tension (Tu Kips):	0.0	0.00	OK!
Calculated Compression Capacity (Pn, Kips):	16097.2	>	Design Factored Axial Load (Pu Kips):	49.1	0.00	OK!
Moment & Axial Strength Combination:	0.30	OK!	Check Tie Spacing (Design/Required):		1	OK!
Pier Reinforcement Ratio:	0.006		Reinforcement Ratio is satisfied per ACI			

(2).Concrete Pad:

One-Way Design Shear Capacity (L-Direction, Kips):	980.6	>	One-Way Factored Shear (L-D. Kips):	177.1	0.18	OK!
One-Way Design Shear Capacity (W-Direction, Kips):	961.3	>	One-Way Factored Shear (W-D., Kips):	168.8	0.18	OK!
One-Way Design Shear Capacity (Corner-Corner. Kips):	807.5	>	One-Way Factored Shear (C-C, Kips):	159.6	0.20	OK!
Lower Steel Pad Reinforcement Ratio (L-Direct.):	0.0034	OK!	Lower Steel Pad Reinf. Ratio (W-Direc	0.0033		
Lower Steel Pad Moment Capacity (L-Direction. Kips-ft):	5080.9	>	Moment at Bottom (L-Dir. K-Ft):	911.4	0.18	OK!
Lower Steel Pad Moment Capacity (W-Direction. Kips-ft):	5084.0	>	Moment at Bottom (W-Dir. K-Ft):	911.4	0.18	OK!
Lower Steel Pad Moment Capacity (Corner-Corner,K-ft):	7113.5	>	Moment at Bottom (C-C Dir. K-Ft):	1288.9	0.18	OK!
Upper Steel Pad Reinforcement Ratio (L-Direct.):	0.0034	OK!	Upper Steel Reinf. Ratio (W-Dir.):	0.0033		
Upper Steel Pad Moment Capacity (L-Direc. Kips-ft):	5080.9	>	Moment at the top (L-Dir K-Ft):	431.5	0.08	OK!
Upper Steel Pad Moment Capacity (W-Direc. Kips-ft):	5084.0	>	Moment at the top (W-Dir K-Ft):	431.5	0.08	OK!
Upper Steel Pad Moment Capacity (Corner-Corner. K-ft):	7113.5	>	Moment at the top (C-C Dir. K-Ft):	420.1	0.06	OK!

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

Moment transferred by punching shear:	1421.5	k-ft.	Max. factored shear stress $v_{u,CD}$:	1.2	Psi
Max. factored shear stress $v_{u,AB}$:	6.4	Psi	Factored shear Strength ϕv_n :	189.7	Psi
Max. factored shear stress v_u :	6.4	Psi	Check Usage of Punching Shear Capacity:	0.03	OK!

Exhibit E



RADIO FREQUENCY EMISSIONS ANALYSIS REPORT EVALUATION OF HUMAN EXPOSURE POTENTIAL TO NON-IONIZING EMISSIONS

T-Mobile Existing Facility

Site ID: CT11525A (MW Add)

SBA - Pomfret School
398 Pomfret Street
Pomfret, CT 06258

March 19, 2018

EBC Project Number: 6218002050

Site Compliance Summary	
Compliance Status:	COMPLIANT
Site total MPE% of FCC general population allowable limit:	4.658 %



March 19, 2018

T-Mobile USA
Attn: Jason Overbey, RF Manager
35 Griffin Road South
Bloomfield, CT 06002

Emissions Analysis for Site: **CT11525A – SBA - Pomfret School**

EBI Consulting was directed to analyze the proposed T-Mobile facility located at **398 Pomfret Street, Pomfret, CT**, for the purpose of determining whether the emissions from the Proposed T-Mobile Antenna Installation located on this property are within specified federal limits.

All information used in this report was analyzed as a percentage of current Maximum Permissible Exposure (% MPE) as listed in the FCC OET Bulletin 65 Edition 97-01 and ANSI/IEEE Std C95.1. The FCC regulates Maximum Permissible Exposure in units of microwatts per square centimeter ($\mu\text{W}/\text{cm}^2$). The number of $\mu\text{W}/\text{cm}^2$ calculated at each sample point is called the power density. The exposure limit for power density varies depending upon the frequencies being utilized. Wireless Carriers and Paging Services use different frequency bands each with different exposure limits, therefore it is necessary to report results and limits in terms of percent MPE rather than power density.

All results were compared to the FCC (Federal Communications Commission) radio frequency exposure rules, 47 CFR 1.1307(b)(1) – (b)(3), to determine compliance with the Maximum Permissible Exposure (MPE) limits for General Population/Uncontrolled environments as defined below.

General population/uncontrolled exposure limits apply to situations in which the general population may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Therefore, members of the general population would always be considered under this category when exposure is not employment related, for example, in the case of a telecommunications tower that exposes persons in a nearby residential area.

Public exposure to radio frequencies is regulated and enforced in units of microwatts per square centimeter ($\mu\text{W}/\text{cm}^2$). The general population exposure limits for the 700 MHz band is approximately 467 $\mu\text{W}/\text{cm}^2$. The general population exposure limit for the 1900 MHz (PCS) and 5 GHz Microwave bands is 1000 $\mu\text{W}/\text{cm}^2$. Because each carrier will be using different frequency bands, and each frequency band has different exposure limits, it is necessary to report percent of MPE rather than power density.



Occupational/controlled exposure limits apply to situations in which persons are exposed as a consequence of their employment and in which those persons who are exposed have been made fully aware of the potential for exposure and can exercise control over their exposure. Occupational/controlled exposure limits also apply where exposure is of a transient nature as a result of incidental passage through a location where exposure levels may be above general population/uncontrolled limits (see below), as long as the exposed person has been made fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

Additional details can be found in FCC OET 65.

CALCULATIONS

Calculations were done for the proposed T-Mobile Wireless antenna facility located at **398 Pomfret Street, Pomfret, CT**, using the equipment information listed below. All calculations were performed per the specifications under FCC OET 65. Since T-Mobile is proposing highly focused directional panel antennas, which project most of the emitted energy out toward the horizon, all calculations were performed assuming a lobe representing the maximum gain of the antenna per the antenna manufactures supplied specifications, minus 10 dB for directional panel antennas, was focused at the base of the tower. For this report the sample point is the top of a 6-foot person standing at the base of the tower.

For all calculations, all equipment was calculated using the following assumptions:

- 1) 2 GSM channels (PCS Band - 1900 MHz) were considered for each sector of the proposed installation. These Channels have a transmit power of 30 Watts per Channel.
- 2) 2 UMTS channels (PCS Band - 1900 MHz) were considered for each sector of the proposed installation. These Channels have a transmit power of 30 Watts per Channel.
- 3) 2 LTE channels (PCS Band - 1900 MHz) were considered for each sector of the proposed installation. These Channels have a transmit power of 60 Watts per Channel.
- 4) 1 LTE channel (700 MHz Band) was considered for each sector of the proposed installation. This channel has a transmit power of 30 Watts.
- 5) 1 microwave backhaul channel (5 GHz) was considered for the proposed facility. This channel has a transmit power of 1 Watt.



- 6) All radios at the proposed installation were considered to be running at full power and were uncombined in their RF transmissions paths per carrier prescribed configuration. Per FCC OET Bulletin No. 65 - Edition 97-01 recommendations to achieve the maximum anticipated value at each sample point, all power levels emitting from the proposed antenna installation are increased by a factor of 2.56 to account for possible in-phase reflections from the surrounding environment. This is rarely the case, and if so, is never continuous.
- 7) For the following calculations the sample point was the top of a 6-foot person standing at the base of the tower. The maximum gain of the antenna per the antenna manufactures supplied specifications, minus 10 dB for directional panel antennas, was used in this direction. This value is a very conservative estimate as gain reductions for these particular antennas are typically much higher in this direction.
- 8) The antennas used in this modeling are the **RFS APXV18-206516S-C-A20** for 1900 MHz (PCS), the **Commscope LNX-6515DS-A1M** for 700 MHz channels and the **Fastback IBR1300** for the proposed 5 GHz microwave backhaul. This is based on feedback from the carrier with regard to anticipated antenna selection. The **RFS APXV18-206516S-C-A20** has a maximum gain of **16.3 dBd** at its main lobe at 1900 MHz. The **Commscope LNX-6515DS-A1M** has a maximum gain of **14.6 dBd** at its main lobe at 700 MHz. The **Fastback IBR1300** has a maximum gain of **10 dBd** at its main lobe at 5 GHz. The maximum gain of the antenna per the antenna manufactures supplied specifications, minus 10 dB for directional panel antennas, was used for all calculations. This value is a very conservative estimate as gain reductions for these particular antennas are typically much higher in this direction.
- 9) The antenna mounting height centerline of the proposed antennas (both panel antennas and microwave antenna) is **147 feet** above ground level (AGL).
- 10) Emissions values for additional carriers were taken from the Connecticut Siting Council active database. Values in this database are provided by the individual carriers themselves.
- 11) All calculations were done with respect to uncontrolled / general population threshold limits.



T-Mobile Site Inventory and Power Data

Sector:	A	Sector:	B	Sector:	C
Antenna #:	1	Antenna #:	1	Antenna #:	1
Make / Model:	RFS APXV18-206516S-C-A20	Make / Model:	RFS APXV18-206516S-C-A20	Make / Model:	RFS APXV18-206516S-C-A20
Gain:	16.3 dBd	Gain:	16.3 dBd	Gain:	16.3 dBd
Height (AGL):	147	Height (AGL):	147	Height (AGL):	147
Frequency Bands	1900 MHz (PCS)	Frequency Bands	1900 MHz (PCS)	Frequency Bands	1900 MHz (PCS)
Channel Count	6	Channel Count	6	Channel Count	6
Total TX Power(W):	240	Total TX Power(W):	240	Total TX Power(W):	240
ERP (W):	6,842.44	ERP (W):	6,842.44	ERP (W):	6,842.44
Antenna A1 MPE%	1.237	Antenna B1 MPE%	1.237	Antenna C1 MPE%	1.237
Antenna #:	2	Antenna #:	2	Antenna #:	2
Make / Model:	Commscope LNX-6515DS-A1M	Make / Model:	Commscope LNX-6515DS-A1M	Make / Model:	Commscope LNX-6515DS-A1M
Gain:	14.6 dBd	Gain:	14.6 dBd	Gain:	14.6 dBd
Height (AGL):	147	Height (AGL):	147	Height (AGL):	147
Frequency Bands	700 MHz	Frequency Bands	700 MHz	Frequency Bands	700 MHz
Channel Count	1	Channel Count	1	Channel Count	1
Total TX Power(W):	30	Total TX Power(W):	30	Total TX Power(W):	30
ERP (W):	695.22	ERP (W):	695.22	ERP (W):	695.22
Antenna A3 MPE%	0.269	Antenna B3 MPE%	0.269	Antenna C3 MPE%	0.269

Microwave Backhaul Data

Make / Model:	Gain	Height (AGL):	Frequency Bands	Channel Count	Total TX Power(W)	ERP (W)	MPE %	Sector
Fastback IBR1300	10 dBd	147	5 GHz	1	1	10	0.002	A

Site Composite MPE%	
Carrier	MPE%
T-Mobile (Per Sector Max)	1.508 %
Verizon Wireless	2.980 %
Sprint	0.170 %
Site Total MPE %:	4.658 %

T-Mobile Sector A Total:	1.508%
T-Mobile Sector B Total:	1.506%
T-Mobile Sector C Total:	1.506%
Site Total:	4.658 %

T-Mobile _Max Power Values (Sector A)	# Channels	Watts ERP (Per Channel)	Height (feet)	Total Power Density ($\mu\text{W}/\text{cm}^2$)	Frequency (MHz)	Allowable MPE ($\mu\text{W}/\text{cm}^2$)	Calculated % MPE
T-Mobile PCS - 1900 MHz LTE	2	1,710.61	147	6.19	PCS - 1900 MHz	1000	0.619%
T-Mobile PCS - 1900 MHz UMTS	2	855.31	147	3.09	PCS - 1900 MHz	1000	0.309%
T-Mobile PCS - 1900 MHz GSM	2	855.31	147	3.09	PCS - 1900 MHz	1000	0.309%
T-Mobile 700 MHz LTE	1	695.22	147	1.26	700 MHz	467	0.269%
T-Mobile 5 GHz Microwave	1	10	147	0.02	5 GHz	1000	0.002%
						Total:	1.508%



Summary

All calculations performed for this analysis yielded results that were **within** the allowable limits for general population exposure to RF Emissions.


The anticipated maximum composite contributions from the T-Mobile facility as well as the site composite emissions value with regards to compliance with FCC's allowable limits for general population exposure to RF Emissions are shown here:

T-Mobile Sector	Power Density Value (%)
Sector A:	1.508%
Sector B:	1.506%
Sector C:	1.506%
T-Mobile Per Sector Maximum (Sector A):	1.508%
Site Total:	4.658%
Site Compliance Status:	COMPLIANT

The anticipated composite MPE value for this site assuming all carriers present is **4.658 %** of the allowable FCC established general population limit sampled at the ground level. This is based upon values listed in the Connecticut Siting Council database for existing carrier emissions.

FCC guidelines state that if a site is found to be out of compliance (over allowable thresholds), that carriers over a 5% contribution to the composite value will require measures to bring the site into compliance. For this facility, the composite values calculated were well within the allowable 100% threshold standard per the federal government.

Exhibit F




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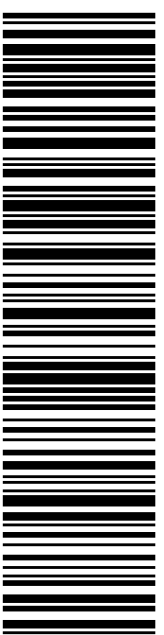
04/06/2018 Mailed from 06002 062S0000000101

PRIORITY MAIL 1-DAY™

Expected Delivery Date: 04/07/18
 Ref#: 525 MWZAP
0024

SHIP TO: MAUREEN NICHOLSON
 POMFRET TOWN HALL
 5 HAVEN RD
 POMFRET CTR CT 06259-1741

USPS TRACKING #



9405 8036 9930 0618 8124 08

Electronic Rate Approved #038555749



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**USPS TRACKING # / Insurance Number:
 9405 8036 9930 0618 8124 08**

Trans. #:	431881189	Priority Mail® Postage:	\$6.70
Print Date:	04/06/2018	Insurance Fee	\$0.00
Ship Date:	04/06/2018	Total	\$6.70
Expected Delivery Date:	04/07/2018		
Insured Value:	\$1.00		


From: DEBORAH CHASE Ref#: 525 MWZAP
 NORTHEAST SITE SOLUTIONS, LLC
 420 MAIN ST STE 2
 STURBRIDGE MA 01566-1359

To: MAUREEN NICHOLSON
 POMFRET TOWN HALL
 5 HAVEN RD
 POMFRET CTR CT 06259-1741

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04/06/2018 Mailed from 06002 062S0000000315

PRIORITY MAIL 1-DAY™

Expected Delivery Date: 04/07/18
 Ref#: 525 MWZAP
0024

SHIP TO: RYAN BRAIS
 POMFRET TOWN HALL
 5 HAVEN RD
 POMFRET CTR CT 06259-1741

USPS TRACKING #



9405 8036 9930 0618 8124 15

Electronic Rate Approved #038555749



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Trans. #:	431881189	Priority Mail® Postage:	\$6.70
Print Date:	04/06/2018	Insurance Fee	\$0.00
Ship Date:	04/06/2018	Total	\$6.70
Expected Delivery Date:	04/07/2018		
Insured Value:	\$1.00		


From: DEBORAH CHASE Ref#: 525 MWZAP
 NORTHEAST SITE SOLUTIONS, LLC
 420 MAIN ST STE 2
 STURBRIDGE MA 01566-1359

To: RYAN BRAIS
 POMFRET TOWN HALL
 5 HAVEN RD
 POMFRET CTR CT 06259-1741

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US POSTAGE \$6.70
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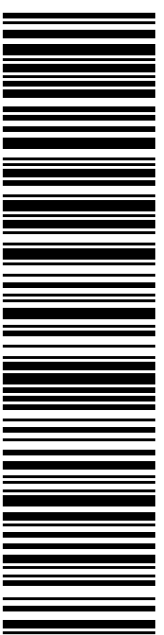
Expected Delivery Date: 04/07/18
 Ref#: 525 MWZAP
0024

DEBORAH CHASE
 NORTHEAST SITE SOLUTIONS, LLC
 420 MAIN ST STE 2
 STURBRIDGE MA 01566-1359

C000

SHIP TO: J. TIMOTHY RICHARDS
 POMFRET SCHOOL
 398 POMFRET ST
 PO BOX 128
 POMFRET CT 06258-8002

USPS TRACKING #



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**USPS TRACKING # / Insurance Number:
 9405 8036 9930 0618 8124 22**

Trans. #:	431881189	Priority Mail® Postage:	\$6.70
Print Date:	04/06/2018	Insurance Fee	\$0.00
Ship Date:	04/06/2018	Total	\$6.70
Expected Delivery Date:	04/07/2018		
Insured Value:	\$1.00		

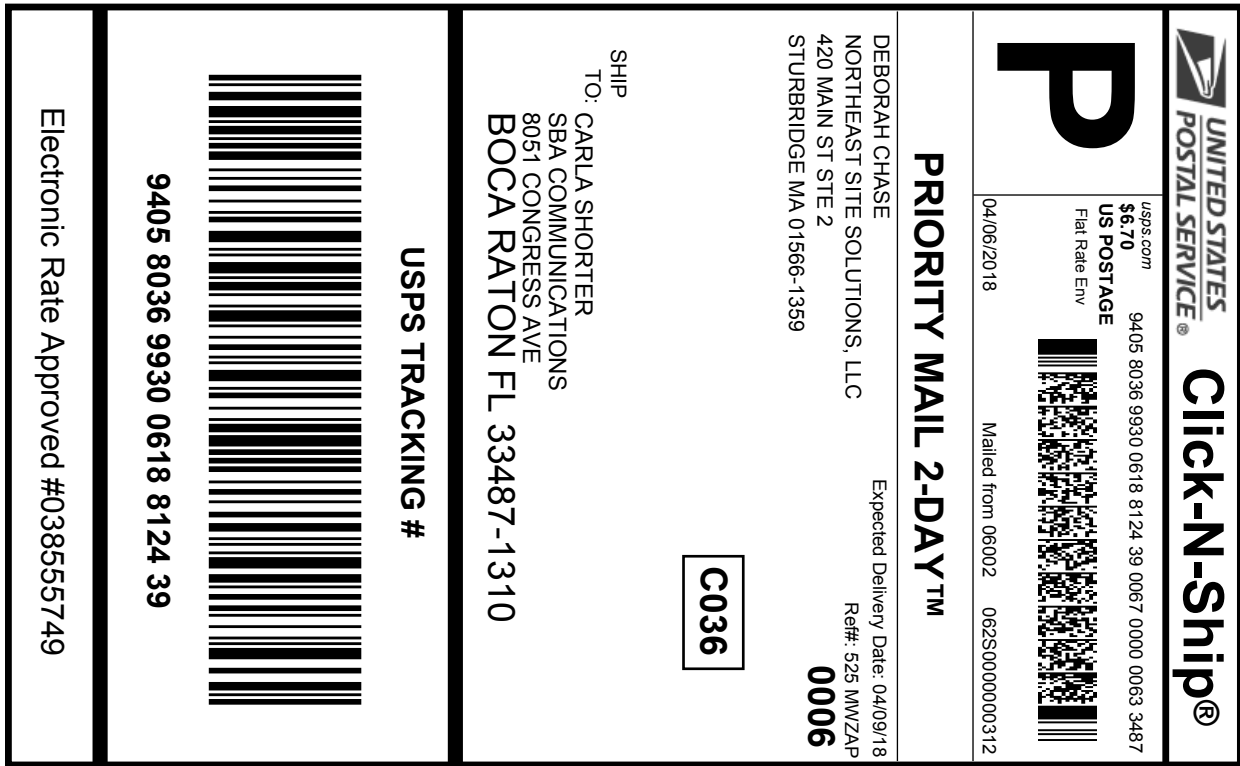
From: DEBORAH CHASE Ref#: 525 MWZAP
 NORTHEAST SITE SOLUTIONS, LLC
 420 MAIN ST STE 2
 STURBRIDGE MA 01566-1359

To: J. TIMOTHY RICHARDS
 POMFRET SCHOOL
 398 POMFRET ST
 PO BOX 128
 POMFRET CT 06258-8002

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Click-N-Ship® Label Record

USPS TRACKING # / Insurance Number:
9405 8036 9930 0618 8124 39

Trans. #:	431881189	Priority Mail® Postage:	\$6.70
Print Date:	04/06/2018	Insurance Fee	\$0.00
Ship Date:	04/06/2018	Total	\$6.70
Expected Delivery Date:	04/09/2018		
Insured Value:	\$1.00		

From: DEBORAH CHASE
 NORTHEAST SITE SOLUTIONS, LLC
 420 MAIN ST STE 2
 STURBRIDGE MA 01566-1359
Ref#: 525 MWZAP

To: CARLA SHORTER
 SBA COMMUNICATIONS
 8051 CONGRESS AVE
 BOCA RATON FL 33487-1310

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