



Filed by:

Scott Shepherd, Property Development Specialist II - SBA Communications
134 Flanders Rd., Suite 125, Westborough, MA 01581
508.251.0720 x 3807 - gshepherd@sbsite.com

March 9, 2022

Melanie A. Bachman
Acting Executive Director
Connecticut Siting Council
Ten Franklin Square
New Britain, CT 06051

RE: Notice of Exempt Modification
398 Pomfret Street, Pomfret, CT 06258
Latitude: 41.890094
Longitude: -71.955008
T-Mobile Site #: CT11525A_Anchor

Dear Ms. Bachman:

T-Mobile currently maintains six (6) antennas at the 147-foot level of the existing 168-foot Monopole Tower at 398 Pomfret Street, Pomfret, CT. The 168-foot tower is owned by SBA Properties, LLC. The property is owned by Pomfret School, Inc. T-Mobile now intends to replace three (3) existing antennas with three (3) new 2500MHz antennas and install three (3) additional 1900/2100MHz antennas for a total of nine (9) antennas.

- The new antennas would be installed at the 147-foot level of the tower and support 5G services.

Planned Modifications:

TOWER

Remove:

- (2) 1-5/8" coax

Remove and Replace:

- (3) RFS APXV18-206516S-C-A20 – Panel (Remove) / (3) Ericsson AIR6449 B41 2500MHz – Panel (Replace)
- (3) Ericsson Radio 4449 B71+B12 RRUs (Remove) / (3) Ericsson 4449 B71+B85 RRUs (Replace)

Install New:

- (3) Commscope VV-65A-R1 1900/2100 MHz antennas
- (3) Ericsson 4460 B25+B66 RRUs
- (1) 1.9" fiber

Existing Equipment to Remain:

- (3) RFS APXVAARR24+43-U-NA20 700/600 MHz antennas
- (3) Allen Telecom FE15501P77/75 TMA's
- (3) Ericsson KRY 112 489/2 TMA's
- (1) Low profile platform with reinforcement kit (Site Pro PRK-1245)
- (7) 1-5/8" coax
- (3) 1-5/8" Fiber
- (3) Kathrein Bias Ts

Entitlements:

- N/A

GROUND

Install New:

- Ice Bridge
- 5' x 3' concrete pad
- (2) 2" RGS conduits for alarm & spare
- T-Mobile Ericsson B160 Battery Cabinet
- (1) 2" RGS conduit with LBs for DC power wiring
- T-Mobile 6160 Equip. Cabinet
- (1) 2" conduit for power from existing PPC
- (1) 1" RGS conduit for DC power from 6160 to Fiber Cabinet
- (1) 2" RGS conduit for AAV to Fiber Cabinet
- T-Mobile Slackbox to Proposed Ice Bridge

Remain:

- 10' x 20' concrete pad
- Existing Ice Bridge
- T-Mobile Polar Deisel generator
- T-Mobile PTS 8003 190AH Battery Cabinet
- T-Mobile Emerson Nextend Compact 2416 Fiber Cabinet
- GPS mounted to existing Ice Bridge
- Existing ATS
- Existing Ericsson RBS6201 ODE Equip. Cabinet
- Existing PPC
- (1) ½" coax for GPS

This facility was approved pending bond, by the Town's Board of Selectmen on December 6, 1999. On December 20, 1999, a donation to the Town's recreation land was accepted in lieu of surety bond and the application for a telecommunications tower was given final approval. There were no post construction stipulations set. Please see attached.

Please accept this letter as notification pursuant to Regulations of Connecticut State Agencies §16-50j-73, for construction that constitutes an exempt modification pursuant to R.C.S.A. §16.50j-72(b)(2). In accordance with R.C.S.A. § 16.50j-73, a copy of this letter is being sent to the Town of Pomfret's First Selectman, Maureen Nicholson,



and Zoning Officer, Ryan Brais, as well as to the property owner. (Separate notice is not being sent to tower owner, as it belongs to SBA.)

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 modification 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 modification 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 telecommunication facility constitute an exempt modifications under R.C.S.A. § 16-50j-72(b)(2).

Sincerely,

Scott Shepherd
Property Development Specialist II
SBA COMMUNICATIONS CORPORATION
134 Flanders Rd., Suite 125
Westborough, MA 01581
508.251.0720 x3807
gshepherd@sbsite.com

Attachments:

cc: Maureen A. Nicholson, First Selectman / with attachments
Town of Pomfret, 5 Haven Rd., Pomfret Center, CT 06259
Ryan Brais, Zoning Officer / with attachments
Town of Pomfret, 5 Haven Rd., Pomfret Center, CT 06259
Pomfret School, Inc. – Property Owner
298 Pomfret St., Pomfret Center, CT 06259



EXHIBIT LIST

Exhibit 1	Check Copy	x
Exhibit 2	Notification Receipts	x
Exhibit 3	Property Card	x
Exhibit 4	Property Map	x
Exhibit 5	Original Zoning Approval	Town of Pomfret 11/15/99
Exhibit 6	Construction Drawings	Chappell Engineering 3/4/22
Exhibit 7	Structural Analysis	TES dated 1/14/22
Exhibit 8	Mount Analysis	TES dated 1/6/22
Exhibit 9	EME Report	EBI Consulting dated 1/27/22

EXHIBIT 1

Copy of Check

EXHIBIT 2
Mailing Labels

ORIGIN ID: JPJA (973) 766-2835
THERESA MERCADO
SBA COMMUNICATIONS CORPORATION
48 MONTCLAIR AVENUE

SHIP DATE: 09MAR22
ACTWGT: 2.00 LB
CAD: 105843304/NET4460

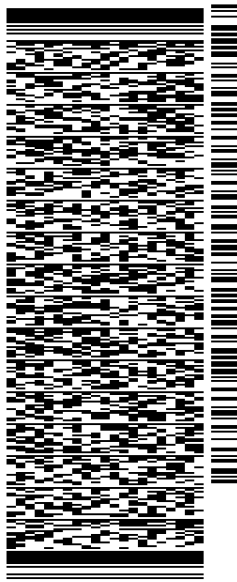
NUTLEY, NJ 07110
UNITED STATES US

BILL SENDER

TO **MELANIE A. BACHMAN EXEC. DIR**
CONNECTICUT SITING COUNCIL
TEN FRANKLIN SQUARE

NEW BRITAIN CT 06051

(508) 251-0720 X 3807 REF: 105692009-6089
INV# DEPT:



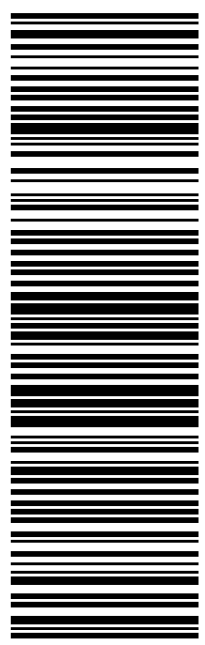
J221022010501uv

TRK# 7762 5002 3108
0201

THU - 10 MAR 10:30A
PRIORITY OVERNIGHT

EBBDLA

06051
BDL
CT:US



56DJ5IEB02/FE4A

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FROM
SBA COMMUNICATIONS CORPORATION
Theresa Mercado
49 Montclair Avenue
NUTLEY, NJ US 07110
973-766-2835

TO
Melanie A. Bachman Exec. Dir
Connecticut Siting Council

Ten Franklin Square
NEW BRITAIN, CT US 06051
508-251-0720

[MANAGE DELIVERY](#)
[Travel History](#)
[Shipment Facts](#)

Travel History

TIME ZONE
Local Scan Time



Wednesday, March 9, 2022

1:36 PM

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11:25 AM

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Shipment Facts

TRACKING NUMBER
776250023108

SERVICE
FedEx Priority Overnight

WEIGHT
2 lbs / 0.91 kgs

TOTAL PIECES
1

TOTAL SHIPMENT WEIGHT
2 lbs / 0.91 kgs

TERMS
Shipper

SHIPPER REFERENCE
10-56-92009-6089

PACKAGING
FedEx Pak

SPECIAL HANDLING SECTION
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3/9/22 [?](#)

SHIPMENT-FACTS.COD-DETAIL
\$0.00

STANDARD TRANSIT
3/10/22 before 10:30 am [?](#)

SCHEDULED DELIVERY

ORIGIN ID: JPJA (973) 766-2835
THERESA MERCADO
SBA COMMUNICATIONS CORPORATION
49 MONTCLAIR AVENUE

SHIP DATE: 09MAR22
ACTWGT: 1.00 LB
CAD: 105843304/NET4460

NUTLEY, NJ 07110
UNITED STATES US

BILL SENDER

TO MAUREEN A. NICHOLSON

TOWN OF POMFRET

FIRST SELECTMAN

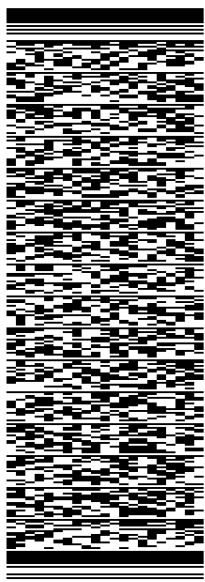
5 HAVEN RD

POMFRET CENTER CT 06259

(508) 251-0720 X 3807 REF: 105692009-6089

PO: DEPT:

56DJ5IEB02/FE4A



J221022010501uv

TRK# 7762 5005 8948
0201

THU - 10 MAR 4:30P

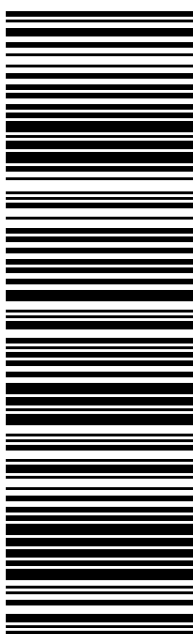
PRIORITY OVERNIGHT

EB GONA

CT:US

06259

BDL



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FROM
SBA COMMUNICATIONS CORPORATION
Theresa Mercado
49 Montclair Avenue
NUTLEY, NJ US 07110
973-766-2835

TO
Maureen A. Nicholson
Town of Pomfret
First Selectman
5 Haven Rd
POMFRET CENTER, CT US 06259
508-251-0720

[MANAGE DELIVERY](#) ∨
[Travel History](#)
[Shipment Facts](#)

Travel History

TIME ZONE
Local Scan Time



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1:36 PM	WESTBOROUGH, MA	Picked up Tendered at FedEx Office
11:28 AM		Shipment information sent to FedEx

Shipment Facts

TRACKING NUMBER 776250058948	SERVICE FedEx Priority Overnight	WEIGHT 0.5 lbs / 0.23 kgs
TOTAL PIECES 1	TOTAL SHIPMENT WEIGHT 0.5 lbs / 0.23 kgs	TERMS Shipper
SHIPPER REFERENCE 10-56-92009-6089	PACKAGING FedEx Envelope	SPECIAL HANDLING SECTION Deliver Weekday
ACTUAL PICK UP 3/9/22 ?	SHIPMENT-FACTS.COD-DETAIL \$0.00	STANDARD TRANSIT 3/10/22 before 4:30 pm ?

ORIGIN ID: JPJA (973) 766-2835
THERESA MERCADO
SBA COMMUNICATIONS CORPORATION
49 MONTCLAIR AVENUE

SHIP DATE: 09MAR22
ACTWGT: 1.00 LB
CAD: 105843304/NET4460

NUTLEY, NJ 07110
UNITED STATES US

BILL SENDER

TO RYAN BRAIS

TOWN OF POMFRET

ZONING OFFICER

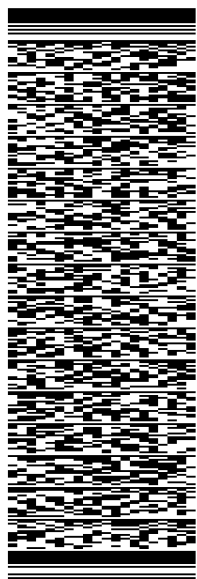
5 HAVEN RD

POMFRET CENTER CT 06259

(508) 251-0720 X 3807 REF: 105692009-6089

PO: DEPT:

56DJ5IEB02/FE4A



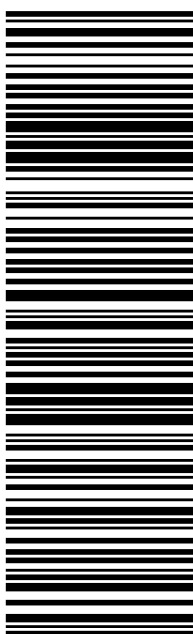
J221022010501uv

TRK# 7762 5007 5701
0201

THU - 10 MAR 4:30P
PRIORITY OVERNIGHT

EB GONA

06259
CT-US BDL



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776250075701



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Thursday, March 10, 2022 before 4:30 pm



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FROM
SBA COMMUNICATIONS CORPORATION
Theresa Mercado
49 Montclair Avenue
NUTLEY, NJ US 07110
973-766-2835

TO
Ryan Brais
Town of Pomfret
Zoning Officer
5 Haven Rd
POMFRET CENTER, CT US 06259
508-251-0720

[MANAGE DELIVERY](#)

[Travel History](#)

[Shipment Facts](#)

Travel History

TIME ZONE
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Wednesday, March 9, 2022

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Shipment Facts

TRACKING NUMBER
776250075701

SERVICE
FedEx Priority Overnight

WEIGHT
0.5 lbs / 0.23 kgs

TOTAL PIECES
1

TOTAL SHIPMENT WEIGHT
0.5 lbs / 0.23 kgs

TERMS
Shipper

SHIPPER REFERENCE
10-56-92009-6089

PACKAGING
FedEx Envelope

SPECIAL HANDLING SECTION
Deliver Weekday

ACTUAL PICK UP
3/9/22

SHIPMENT-FACTS.COD-DETAIL
\$0.00

STANDARD TRANSIT
3/10/22 before 4:30 pm

ORIGIN ID: JPJA (973) 766-2835
THERESA MERCADO
SBA COMMUNICATIONS CORPORATION
49 MONTCLAIR AVENUE

SHIP DATE: 09MAR22
ACTWGT: 1.00 LB
CAD: 105843304/NET4460

NUTLEY, NJ 07110
UNITED STATES US

BILL SENDER

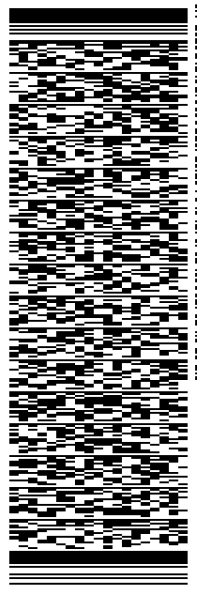
TO **POMFRET SCHOOL INC.**

298 POMFRET ST

POMFRET CENTER CT 06259

(508) 251-0720 X 3807 REF: 105692009-6089
INV# PO: DEPT:

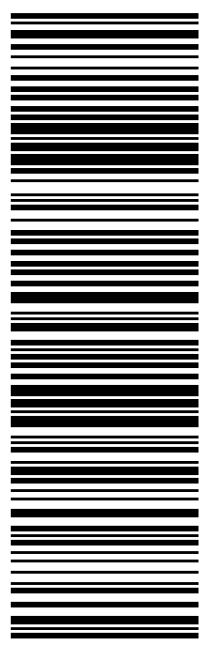
56DJ5IEB02/FE4A



J221022010501uv

TRK# 7762 5009 5909 THU - 10 MAR 4:30P
0201 PRIORITY OVERNIGHT

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CT-US BDL



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Scheduled delivery: Thursday, March 10, 2022 before 4:30 pm



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FROM
SBA COMMUNICATIONS CORPORATION
Theresa Mercado
49 Montclair Avenue
NUTLEY, NJ US 07110
973-766-2835

TO
Pomfret School Inc.
298 Pomfret St
POMFRET CENTER, CT US 06259
508-251-0720

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[Travel History](#)

[Shipment Facts](#)

Travel History

TIME ZONE
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Wednesday, March 9, 2022

1:36 PM	WESTBOROUGH, MA	Picked up Tendered at FedEx Office
11:29 AM		Shipment information sent to FedEx

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TRACKING NUMBER 776250095909	SERVICE FedEx Priority Overnight	WEIGHT 0.5 lbs / 0.23 kgs
TOTAL PIECES 1	TOTAL SHIPMENT WEIGHT 0.5 lbs / 0.23 kgs	TERMS Shipper
SHIPPER REFERENCE 10-56-92009-6089	PACKAGING FedEx Envelope	SPECIAL HANDLING SECTION Deliver Weekday
ACTUAL PICK UP 3/9/22	SHIPMENT-FACTS.COD-DETAIL \$0.00	STANDARD TRANSIT 3/10/22 before 4:30 pm

SCHEDULED DELIVERY

EXHIBIT 3

Property Card

398 POMFRET ST

Location 398 POMFRET ST

Mblu 14/ A/ 008.00/ /

Acct# P0185900

Owner POMFRET SCHOOL INC

Assessment \$24,715,900

Appraisal \$35,307,700

PID 584

Building Count 24

Current Value

Appraisal			
Valuation Year	Improvements	Land	Total
2020	\$34,229,300	\$1,078,400	\$35,307,700

Assessment			
Valuation Year	Improvements	Land	Total
2020	\$23,961,100	\$754,800	\$24,715,900

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: \$633,000

Building Attributes	
Field	Description
Style:	Office Bldg

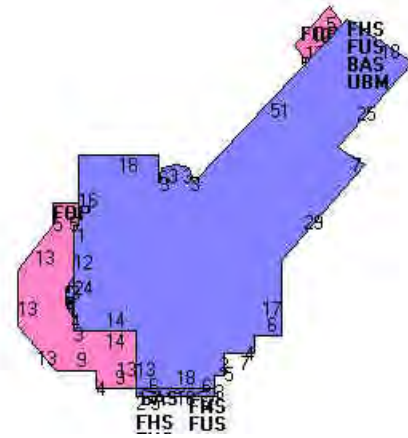
Model	Comm/Ind
Grade	Good
Stories:	2.5
Occupancy	6.00
Exterior Wall 1	Clapboard
Exterior Wall 2	
Roof Structure	Gable/Hip
Roof Cover	Asph/F Gls/Cmp
Interior Wall 1	Plastered
Interior Wall 2	
Interior Floor 1	Hardwood
Interior Floor 2	Carpet
Heating Fuel	Oil
Heating Type	Steam
AC Type	None
Struct Class	
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	9.00
% Comn Wall	0.00

Building Photo



(<http://images.vgsi.com/photos/PomfretCTPhotos/\A00\00\37\36.jpg>)

Building Layout



(http://images.vgsi.com/photos/PomfretCTPhotos//Sketches/584_584.jpg)

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: \$4,225,700

Building Attributes : Bldg 2 of 24	
Field	Description
Style:	School/College

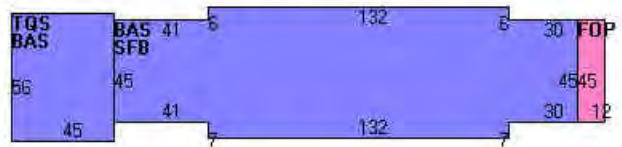
Model	Ind/Comm
Grade	Good
Stories:	1.75
Occupancy	1.00
Exterior Wall 1	Brick/Masonry
Exterior Wall 2	
Roof Structure	Gable/Hip
Roof Cover	Asph/F Gls/Cmp
Interior Wall 1	Plywood Panel
Interior Wall 2	Drywall/Sheet
Interior Floor 1	Vinyl/Asphalt
Interior Floor 2	Carpet
Heating Fuel	Oil
Heating Type	Steam
AC Type	None
Struct Class	
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	14.00
% Comn Wall	0.00

Building Photo



(<http://images.vgsi.com/photos/PomfretCTPhotos/A00\00\37\46.jpg>)

Building Layout



(http://images.vgsi.com/photos/PomfretCTPhotos/Sketches/584_2169.jpg)

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: \$1,389,200

Building Attributes : Bldg 3 of 24	
Field	Description
Style:	Library
Model	Comm/Ind

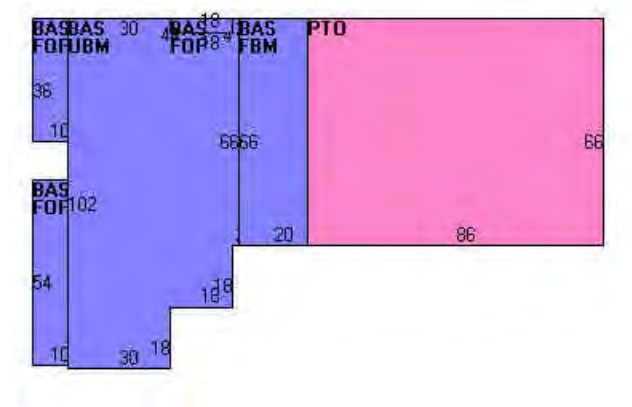
Grade	Good
Stories:	1
Occupancy	1.00
Exterior Wall 1	Pre-cast Concr
Exterior Wall 2	
Roof Structure	Flat
Roof Cover	Tar & Gravel
Interior Wall 1	Minim/Masonry
Interior Wall 2	
Interior Floor 1	Concr-Finished
Interior Floor 2	
Heating Fuel	Oil
Heating Type	Steam
AC Type	None
Struct Class	
Bldg Use	PVT 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	10.00
% Comn Wall	0.00

Building Photo



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Building Layout



(http://images.vgsi.com/photos/PomfretCTPhotos/Sketches/584_2170.jpg)

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: \$884,400

Building Attributes : Bldg 4 of 24	
Field	Description
Style:	Churches

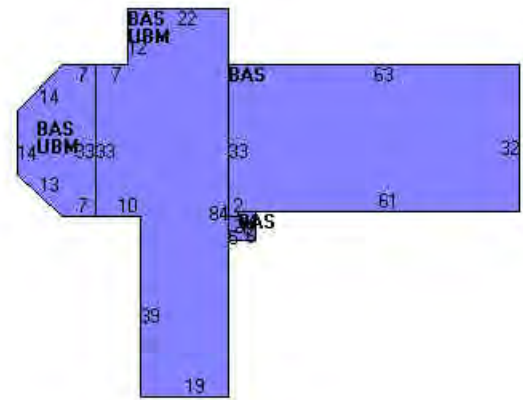
Model	Ind/Comm
Grade	Good
Stories:	1
Occupancy	1.00
Exterior Wall 1	Stone/Masonry
Exterior Wall 2	
Roof Structure	Gable/Hip
Roof Cover	Slate
Interior Wall 1	Minim/Masonry
Interior Wall 2	Cust Wd Panel
Interior Floor 1	Marble
Interior Floor 2	
Heating Fuel	Oil
Heating Type	Forced Air-Duc
AC Type	None
Struct Class	
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	20.00
% Comn Wall	0.00

Building Photo



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Building Layout



(http://images.vgsi.com/photos/PomfretCTPhotos//Sketches/584_2171.jpg)

Building Sub-Areas (sq ft)			<u>Legend</u>
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: \$1,729,100

Building Attributes : Bldg 5 of 24	
Field	Description
Style:	School/College
Model	Ind/Comm
Grade	Good
Stories:	2

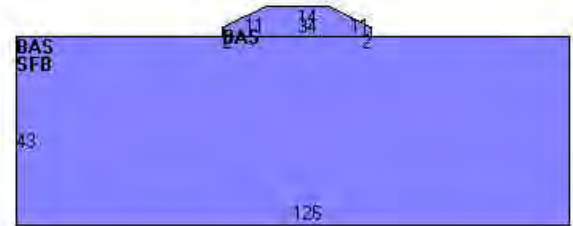
Occupancy	1.00
Exterior Wall 1	Brick/Masonry
Exterior Wall 2	
Roof Structure	Flat
Roof Cover	Tar & Gravel
Interior Wall 1	Minim/Masonry
Interior Wall 2	Drywall/Sheet
Interior Floor 1	Vinyl/Asphalt
Interior Floor 2	
Heating Fuel	Oil
Heating Type	Steam
AC Type	None
Struct Class	
Bldg Use	PVT SCHOOL MDL-96
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	10.00
% Comn Wall	0.00

Building Photo



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Building Layout



(http://images.vgsi.com/photos/PomfretCTPhotos/Sketches/584_2172.jpg)

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: \$693,800

Building Attributes : Bldg 6 of 24	
Field	Description
Style:	Gym
Model	Ind/Comm
Grade	Good
Stories:	1

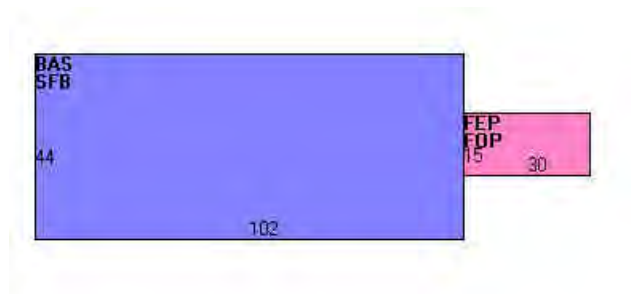
Occupancy	1.00
Exterior Wall 1	Brick/Masonry
Exterior Wall 2	
Roof Structure	Gable/Hip
Roof Cover	Slate
Interior Wall 1	Minim/Masonry
Interior Wall 2	Plastered
Interior Floor 1	Carpet
Interior Floor 2	
Heating Fuel	Oil
Heating Type	Steam
AC Type	None
Struct Class	
Bldg Use	PVT SCHOOL MDL-96
Total Rooms	
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	14.00
% Comn Wall	0.00

Building Photo



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Building Layout



(http://images.vgsi.com/photos/PomfretCTPhotos/Sketches/584_2173.jpg)

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: \$3,296,500

Building Attributes : Bldg 7 of 24	
Field	Description
Style:	School/College
Model	Ind/Comm

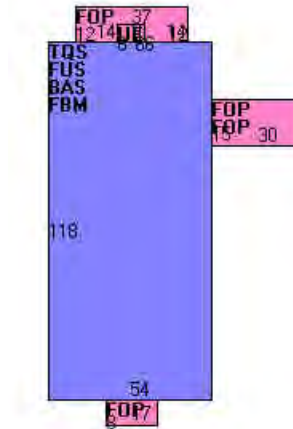
Grade	Good
Stories:	2.75
Occupancy	1.00
Exterior Wall 1	Brick/Masonry
Exterior Wall 2	
Roof Structure	Gable/Hip
Roof Cover	Slate
Interior Wall 1	Minim/Masonry
Interior Wall 2	Drywall/Sheet
Interior Floor 1	Carpet
Interior Floor 2	
Heating Fuel	Oil
Heating Type	Steam
AC Type	None
Struct Class	
Bldg Use	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	10.00
% Comn Wall	0.00

Building Photo



(<http://images.vgsi.com/photos/PomfretCTPhotos/A00\00\37\35.jpg>)

Building Layout



(http://images.vgsi.com/photos/PomfretCTPhotos/Sketches/584_2174.jpg)

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: \$1,254,100

Building Attributes : Bldg 8 of 24	
Field	Description

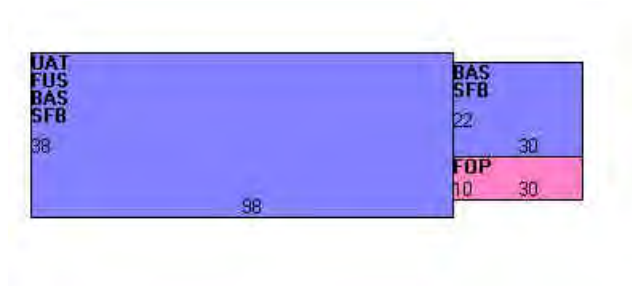
Style:	Dormitory
Model	Ind/Comm
Grade	Good
Stories:	2
Occupancy	29.00
Exterior Wall 1	Brick/Masonry
Exterior Wall 2	
Roof Structure	Gable/Hip
Roof Cover	Slate
Interior Wall 1	Minim/Masonry
Interior Wall 2	Drywall/Sheet
Interior Floor 1	Vinyl/Asphalt
Interior Floor 2	Carpet
Heating Fuel	Oil
Heating Type	Steam
AC Type	None
Struct Class	
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	10.00
% Comn Wall	0.00

Building Photo



(<http://images.vgsi.com/photos/PomfretCTPhotos/A00\00\37\29.jpg>)

Building Layout



(http://images.vgsi.com/photos/PomfretCTPhotos/Sketches/584_2175.jpg)

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: \$1,487,500

Building Attributes : Bldg 9 of 24	
Field	Description
Style:	Dormitory

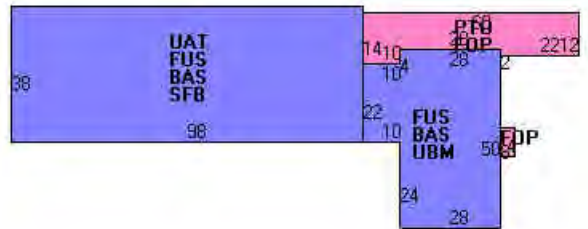
Model	Ind/Comm
Grade	Good
Stories:	2
Occupancy	40.00
Exterior Wall 1	Brick/Masonry
Exterior Wall 2	
Roof Structure	Gable/Hip
Roof Cover	Slate
Interior Wall 1	Minim/Masonry
Interior Wall 2	Drywall/Sheet
Interior Floor 1	Vinyl/Asphalt
Interior Floor 2	Carpet
Heating Fuel	Oil
Heating Type	Steam
AC Type	None
Struct Class	
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	10.00
% Comn Wall	0.00

Building Photo



(<http://images.vgsi.com/photos/PomfretCTPhotos/A00\00\37\33.jpg>)

Building Layout



(http://images.vgsi.com/photos/PomfretCTPhotos/Sketches/584_2176.jpg)

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: \$1,487,500

Building Attributes : Bldg 10 of 24

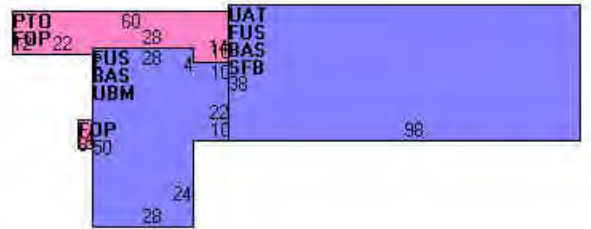
Field	Description
Style:	Dormitory
Model	Ind/Comm
Grade	Good
Stories:	2
Occupancy	40.00
Exterior Wall 1	Brick/Masonry
Exterior Wall 2	
Roof Structure	Gable/Hip
Roof Cover	Slate
Interior Wall 1	Minim/Masonry
Interior Wall 2	Drywall/Sheet
Interior Floor 1	Vinyl/Asphalt
Interior Floor 2	Carpet
Heating Fuel	Oil
Heating Type	Steam
AC Type	None
Struct Class	
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	10.00
% Comn Wall	0.00

Building Photo



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Building Layout



(http://images.vgsi.com/photos/PomfretCTPhotos//Sketches/584_2177.jpg)

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: \$1,254,100

Building Attributes : Bldg 11 of 24

Field	Description
Style:	Dormitory
Model	Ind/Comm
Grade	Good
Stories:	2
Occupancy	34.00
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
Struct Class	
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	10.00
% Comn Wall	0.00

Building Photo



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Building Layout



(http://images.vgsi.com/photos/PomfretCTPhotos/Sketches/584_2178.jpg)

Building Sub-Areas (sq ft)			<u>Legend</u>	
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: \$914,200

Building Attributes : Bldg 12 of 24	
Field	Description
Style:	Dormitory

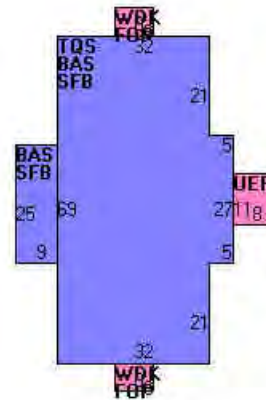
Model	Ind/Comm
Grade	Good
Stories:	1.75
Occupancy	11.00
Exterior Wall 1	Brick/Masonry
Exterior Wall 2	
Roof Structure	Gable/Hip
Roof Cover	Slate
Interior Wall 1	Drywall/Sheet
Interior Wall 2	
Interior Floor 1	Vinyl/Asphalt
Interior Floor 2	Carpet
Heating Fuel	Oil
Heating Type	Hot Water
AC Type	None
Struct Class	
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	10.00
% Comn Wall	0.00

Building Photo



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Building Layout



(http://images.vgsi.com/photos/PomfretCTPhotos//Sketches/584_2179.jpg)

Building Sub-Areas (sq ft)			<u>Legend</u>	
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: \$5,129,200

Building Attributes : Bldg 13 of 24	
Field	Description

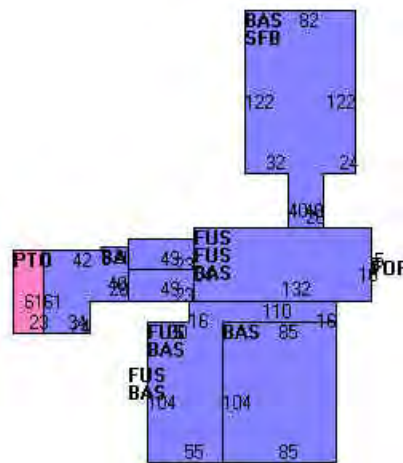
Style:	Gym
Model	Ind/Comm
Grade	Good
Stories:	3
Occupancy	1.00
Exterior Wall 1	Brick/Masonry
Exterior Wall 2	
Roof Structure	Gable/Hip
Roof Cover	Asph/F Gls/Cmp
Interior Wall 1	Minim/Masonry
Interior Wall 2	Drywall/Sheet
Interior Floor 1	Hardwood
Interior Floor 2	Carpet
Heating Fuel	Oil
Heating Type	Steam
AC Type	None
Struct Class	
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	18.00
% Comn Wall	0.00

Building Photo



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Building Layout



(http://images.vgsi.com/photos/PomfretCTPhotos/Sketches/584_2180.jpg)

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: \$4,132,900

Building Attributes : Bldg 14 of 24	
Field	Description
Style:	School/College

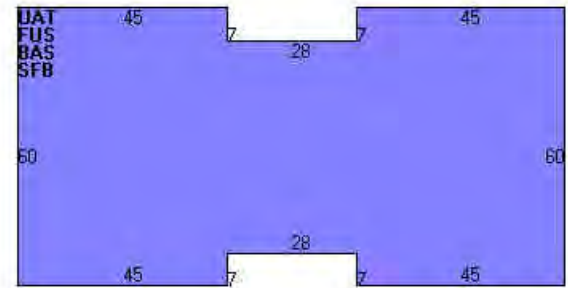
Model	Ind/Comm
Grade	Good
Stories:	2
Occupancy	1.00
Exterior Wall 1	Brick/Masonry
Exterior Wall 2	
Roof Structure	Gable/Hip
Roof Cover	Slate
Interior Wall 1	Minim/Masonry
Interior Wall 2	Drywall/Sheet
Interior Floor 1	Carpet
Interior Floor 2	Vinyl/Asphalt
Heating Fuel	Oil
Heating Type	Steam
AC Type	Central
Struct Class	
Bldg Use	STATE EDUC MDL-96
Total Rooms	
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	10.00
% Comn Wall	0.00

Building Photo



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Building Layout



(http://images.vgsi.com/photos/PomfretCTPhotos//Sketches/584_2181.jpg)

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 24	
Field	Description
Style:	Skating Arena
Model	Ind/Comm

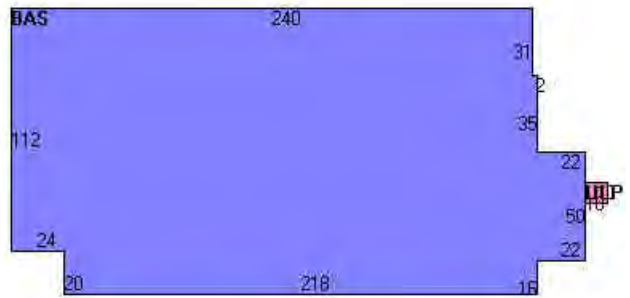
Grade	Average
Stories:	1
Occupancy	1.00
Exterior Wall 1	Pre-finish Metl
Exterior Wall 2	
Roof Structure	Gable/Hip
Roof Cover	Metal/Tin
Interior Wall 1	Minim/Masonry
Interior Wall 2	
Interior Floor 1	Concr-Finished
Interior Floor 2	
Heating Fuel	Gas
Heating Type	Forced Air-Duc
AC Type	None
Struct Class	
Bldg Use	PVT SCHOOL MDL-96
Total Rooms	
Total Bedrms	00
Total Baths	0
1st Floor Use:	904I
Heat/AC	NONE
Frame Type	STEEL
Baths/Plumbing	AVERAGE
Ceiling/Wall	CEIL & MIN WL
Rooms/Prtns	AVERAGE
Wall Height	16.00
% Comn Wall	0.00

Building Photo



(<http://images.vgsi.com/photos/PomfretCTPhotos/A00\00\37\38.jpg>)

Building Layout



(http://images.vgsi.com/photos/PomfretCTPhotos/Sketches/584_2182.jpg)

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: 1,458
Replacement Cost
Less Depreciation: \$125,700

Building Attributes : Bldg 16 of 24	
Field	Description
Style:	Cape
Model	Residential
Grade:	C
Stories:	1 1/2 Stories

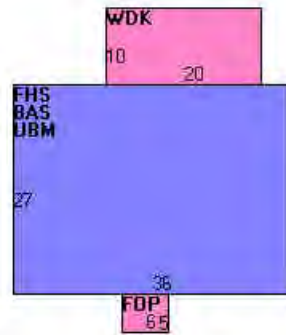
Occupancy	1
Exterior Wall 1	Clapboard
Exterior Wall 2	
Roof Structure:	Gable
Roof Cover	Asphalt
Interior Wall 1	Drywall
Interior Wall 2	
Interior Flr 1	Carpet
Interior Flr 2	Hardwood
Heat Fuel	Oil
Heat Type:	Steam
AC Type:	None
Total Bedrooms:	4 Bedrooms
Full Baths:	2
Half Baths:	0
Xtra Fixtrs:	
Total Rooms:	8
Bath Style:	Average
Kitchen Style:	Average
Extra Kitchens	
Whirlpool	
Fireplace	
Xtra Opening	
Blocked FPL	
Gas Fireplace	
Num Park	
Fireplaces	
Fndtn Cndtn	
Basement	

Building Photo



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Building Layout



(http://images.vgsi.com/photos/PomfretCTPhotos//Sketches/584_2183.jpg)

Building Sub-Areas (sq ft)			Legend
Code	Description	Gross Area	Living Area
BAS	First Floor	972	972
FHS	Finished Half Story	972	486
FOP	Open Porch	30	0
UBM	Unfin Bsmt	972	0
WDK	Deck	200	0
		3,146	1,458

Building 17 : Section 1

Year Built: 1900
Living Area: 1,238
Replacement Cost
Less Depreciation: \$97,400

Building Attributes : Bldg 17 of 24	
Field	Description
Style:	Cape

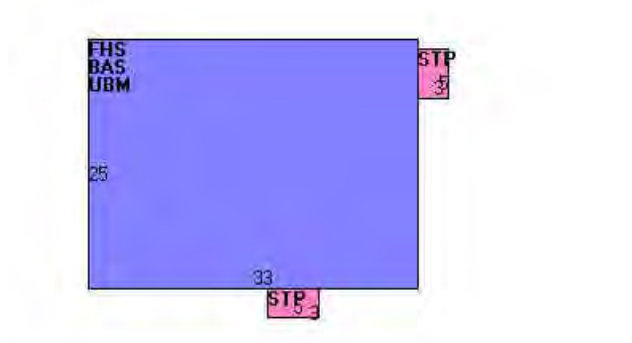
Model	Residential
Grade:	C
Stories:	1.5
Occupancy	1
Exterior Wall 1	Clapboard
Exterior Wall 2	
Roof Structure:	Gable
Roof Cover	Asphalt
Interior Wall 1	Drywall
Interior Wall 2	
Interior Flr 1	Hardwood
Interior Flr 2	
Heat Fuel	Oil
Heat Type:	Hot Water
AC Type:	None
Total Bedrooms:	3 Bedrooms
Full Baths:	2
Half Baths:	0
Xtra Fixtrs:	
Total Rooms:	7
Bath Style:	Average
Kitchen Style:	Average
Extra Kitchens	
Whirlpool	
Fireplace	1
Xtra Opening	
Blocked FPL	
Gas Fireplace	
Num Park	
Fireplaces	
Fndtn Cndtn	
Basement	

Building Photo



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Building Layout



(http://images.vgsi.com/photos/PomfretCTPhotos//Sketches/584_2184.jpg)

Building Sub-Areas (sq ft)			Legend
Code	Description	Gross Area	Living Area
BAS	First Floor	825	825
FHS	Finished Half Story	825	413
STP	Stoop	30	0
UBM	Unfin Bsmt	825	0
		2,505	1,238

Building 18 : Section 1

Year Built: 1900
Living Area: 2,042
Replacement Cost
Less Depreciation: \$134,000

Building Attributes : Bldg 18 of 24	
Field	Description
Style:	Conventional
Model	Residential

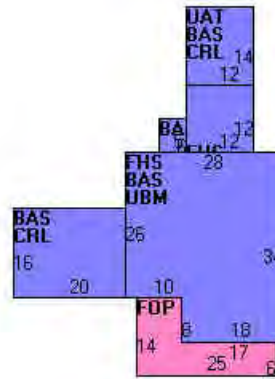
Grade:	C+
Stories:	1 3/4 Stories
Occupancy	1
Exterior Wall 1	Clapboard
Exterior Wall 2	
Roof Structure:	Gable
Roof Cover	Asphalt
Interior Wall 1	Drywall
Interior Wall 2	Plaster
Interior Flr 1	Carpet
Interior Flr 2	Hardwood
Heat Fuel	Oil
Heat Type:	Steam
AC Type:	None
Total Bedrooms:	5 Bedrooms
Full Baths:	2
Half Baths:	1
Xtra Fixtrs:	
Total Rooms:	9
Bath Style:	Average
Kitchen Style:	Average
Extra Kitchens	
Whirlpool	
Fireplace	1
Xtra Opening	1
Blocked FPL	
Gas Fireplace	
Num Park	
Fireplaces	
Fndtn Cndtn	
Basement	

Building Photo



(<http://images.vgsi.com/photos/PomfretCTPhotos/\A00\00\37\44.jpg>)

Building Layout



(http://images.vgsi.com/photos/PomfretCTPhotos//Sketches/584_2185.jpg)

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	508
CRL	Crawl Space	632	0
FOP	Open Porch	214	0
UAT	Unfinished Attic	168	0
UBM	Unfin Bsmt	872	0
		4,436	2,042

Building 19 : Section 1

Year Built: 1900
 Living Area: 1,225
 Replacement Cost
 Less Depreciation: \$82,300

Building Attributes : Bldg 19 of 24	
Field	Description

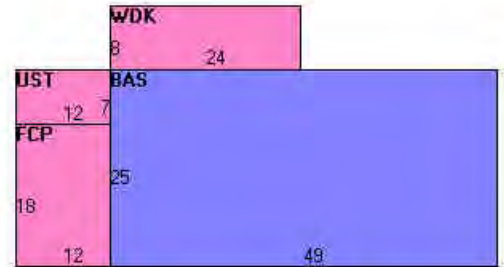
Style:	Ranch
Model	Residential
Grade:	C+
Stories:	1 Story
Occupancy	1
Exterior Wall 1	Wood on Sheath
Exterior Wall 2	
Roof Structure:	Gable
Roof Cover	Asphalt
Interior Wall 1	Drywall
Interior Wall 2	
Interior Flr 1	Carpet
Interior Flr 2	
Heat Fuel	Oil
Heat Type:	Hot Water
AC Type:	None
Total Bedrooms:	3 Bedrooms
Full Baths:	1
Half Baths:	1
Xtra Fixtrs:	
Total Rooms:	5 Rooms
Bath Style:	Average
Kitchen Style:	Average
Extra Kitchens	
Whirlpool	
Fireplace	
Xtra Opening	
Blocked FPL	
Gas Fireplace	
Num Park	
Fireplaces	
Fndtn Cndtn	
Basement	

Building Photo



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Building Layout



(http://images.vgsi.com/photos/PomfretCTPhotos//Sketches/584_2187.jpg)

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: \$151,800

Building Attributes : Bldg 20 of 24	
Field	Description
Style:	Conventional

Model	Residential
Grade:	C+
Stories:	2 Stories
Occupancy	1
Exterior Wall 1	Wood Shingle
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
Bath Style:	Average
Kitchen Style:	Average
Extra Kitchens	
Whirlpool	
Fireplace	2
Xtra Opening	
Blocked FPL	
Gas Fireplace	
Num Park	
Fireplaces	
Fndtn Cndtn	
Basement	

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	1,176	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: 2,304
Replacement Cost
Less Depreciation: \$210,300

Building Attributes : Bldg 21 of 24	
Field	Description
Style:	Cape
Model	Residential

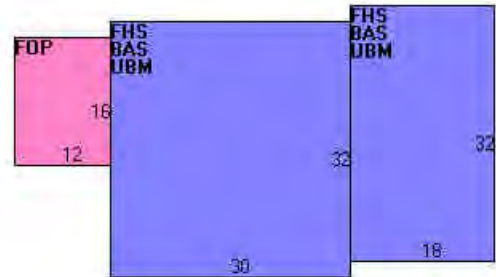
Grade:	C+
Stories:	1 1/2 Stories
Occupancy	1
Exterior Wall 1	Cedar or Redwd
Exterior Wall 2	
Roof Structure:	Gable
Roof Cover	Asphalt
Interior Wall 1	Drywall
Interior Wall 2	
Interior Flr 1	Hardwood
Interior Flr 2	
Heat Fuel	Oil
Heat Type:	Hot Water
AC Type:	None
Total Bedrooms:	4 Bedrooms
Full Baths:	2
Half Baths:	1
Xtra Fixtrs:	1
Total Rooms:	8 Rooms
Bath Style:	Average
Kitchen Style:	Modern
Extra Kitchens	
Whirlpool	
Fireplace	1
Xtra Opening	1
Blocked FPL	
Gas Fireplace	
Num Park	
Fireplaces	
Fndtn Cndtn	
Basement	

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	1,536	1,536	
FHS	Finished Half Story	1,536	768	
FOP	Open Porch	192	0	
UBM	Unfin Bsmt	1,536	0	
		4,800	2,304	

Building 22 : Section 1

Year Built: 2002
 Living Area: 6,900
 Replacement Cost
 Less Depreciation: \$511,200

Building Attributes : Bldg 22 of 24	
Field	Description
Style:	Garage/Office
Model	Ind/Comm

Grade	Good +10
Stories:	1
Occupancy	1.00
Exterior Wall 1	Clapboard
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
Struct Class	
Bldg Use	PVT SCHOOL MDL-96
Total Rooms	
Total Bedrms	00
Total Baths	0
1st Floor Use:	904I
Heat/AC	HEAT/AC SPLIT
Frame Type	WOOD FRAME
Baths/Plumbing	AVERAGE
Ceiling/Wall	CEIL & WALLS
Rooms/Prtns	AVERAGE
Wall Height	9.00
% Comn Wall	0.00

Building Photo



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Building Layout



(http://images.vgsi.com/photos/PomfretCTPhotos/Sketches/584_2356.jpg)

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

Building 23 : Section 1

Year Built: 2008
Living Area: 2,040
Replacement Cost
Less Depreciation: \$501,700

Building Attributes : Bldg 23 of 24	
Field	Description
Style:	Clubs/Lodges
Model	Comm/Ind

Grade	Excellent
Stories:	1
Occupancy	1.00
Exterior Wall 1	Wood Shingle
Exterior Wall 2	
Roof Structure	Gable/Hip
Roof Cover	Asph/F Gls/Cmp
Interior Wall 1	Drywall/Sheet
Interior Wall 2	
Interior Floor 1	Wood Laminate
Interior Floor 2	
Heating Fuel	Oil
Heating Type	Hot Water
AC Type	Central
Struct Class	
Bldg Use	PVT SCHOOL MDL-96
Total Rooms	2
Total Bedrms	0
Total Baths	2
1st Floor Use:	
Heat/AC	HEAT/AC PKGS
Frame Type	WOOD FRAME
Baths/Plumbing	AVERAGE
Ceiling/Wall	CEIL & WALLS
Rooms/Prtns	AVERAGE
Wall Height	10.00
% Comn Wall	

Building Photo



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Building Layout



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Building Sub-Areas (sq ft)			<u>Legend</u>
Code	Description	Gross Area	Living Area
BAS	First Floor	2,040	2,040
		2,040	2,040

Building 24 : Section 1

Year Built: 2017
Living Area: 9,570
Replacement Cost
Less Depreciation: \$1,302,900

Building Attributes : Bldg 24 of 24	
Field	Description
Style:	Profess. Bldg
Model	Comm/Ind
Grade	Average +10
Stories:	2
Occupancy	1.00

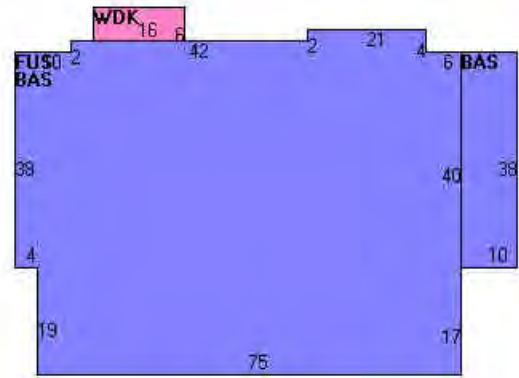
Exterior Wall 1	Clapboard
Exterior Wall 2	
Roof Structure	Gable/Hip
Roof Cover	Asph/F Gls/Cmp
Interior Wall 1	Drywall/Sheet
Interior Wall 2	
Interior Floor 1	Hardwood
Interior Floor 2	Vinyl/Asphalt
Heating Fuel	Gas
Heating Type	Forced Air-Duc
AC Type	Central
Struct Class	
Bldg Use	PVT SCHOOL MDL-94
Total Rooms	
Total Bedrms	
Total Baths	
1st Floor Use:	
Heat/AC	HEAT/AC PKGS
Frame Type	WOOD FRAME
Baths/Plumbing	ABOVE AVERAGE
Ceiling/Wall	SUS-CEIL & WL
Rooms/Prtns	ABOVE AVERAGE
Wall Height	9.00
% Comn Wall	

Building Photo



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Building Layout



(http://images.vgsi.com/photos/PomfretCTPhotos/Sketches/584_102507.j)

Building Sub-Areas (sq ft)			Legend
Code	Description	Gross Area	Living Area
BAS	First Floor	4,975	4,975
FUS	Finished Upper Story	4,595	4,595
WDK	Deck	96	0
		9,666	9,570

Extra Features

Extra Features				Legend
Code	Description	Size	Value	Bldg #
A/C	AIR CONDITIONING	2670.00 S.F.	\$4,900	22
ELV1	ELEVATOR	3.00 STOPS	\$81,000	14
FPL3	2ST FPL	1.00 UNITS	\$1,800	9
MEZ2	FINISHED	228.00 S.F.	\$3,100	4
MEZ2	FINISHED	660.00 S.F.	\$8,600	6

SPR1	SPRINKLERS-WET	16516.00 S.F.	\$8,600	8
SPR1	SPRINKLERS-WET	16516.00 S.F.	\$8,600	11
SPR1	SPRINKLERS-WET	21156.00 S.F.	\$11,000	10
SPR2	WET/CONCEALED	7759.00 S.F.	\$6,800	12
FPL3	2ST FPL	1.00 UNITS	\$1,800	10
MEZ2	FINISHED	3848.00 S.F.	\$56,200	3
SPR1	SPRINKLERS-WET	21156.00 S.F.	\$11,000	9
SPR2	WET/CONCEALED	26752.00 S.F.	\$26,500	14
A/C	AIR CONDITIONING	1320.00 S.F.	\$1,900	3
FPL3	2ST FPL	3.00 UNITS	\$5,500	1
A/C	AIR CONDITIONING	12000.00 S.F.	\$15,600	13
FPO	EXTRA OPENING FPL	1.00 UNITS	\$500	1
ELV1	ELEVATOR	5.00 STOPS	\$97,500	13
SPR1	SPRINKLERS-WET	12714.00 S.F.	\$6,600	1
SPR2	WET/CONCEALED	75276.00 S.F.	\$53,800	13
MEZ2	FINISHED	1680.00 S.F.	\$21,800	13

Land

Land Use

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

Land Line Valuation

Size (Acres) 141.24
Frontage 0
Depth 0
Assessed Value \$754,800
Appraised Value \$1,078,400

Outbuildings

Outbuildings						<u>Legend</u>
Code	Description	Sub Code	Sub Description	Size	Value	Bldg #
FGR1	Garage - Ave			2636.00 S.F.	\$34,300	13
PAT2	Patio - Good			6768.00 S.F.	\$27,100	3
PAV1	PAVING-ASPHALT			120000.00 S.F.	\$54,000	1
TEN	Tennis Court			4.00 UNITS	\$56,000	15
BRN5	2S Barn			2880.00 S.F.	\$40,300	22
PAT1	Patio - Ave			400.00 S.F.	\$1,000	12
SHD1	Shed			360.00 S.F.	\$2,500	13
TNK2	3000-10000 GAL			1000.00 GALS	\$400	15
BRN8	Pole Barn			1440.00 S.F.	\$10,800	22
SHD1	Shed			192.00 S.F.	\$1,300	13
SHD1	Shed			96.00 S.F.	\$700	15
SHD2	Shed - Good			96.00 S.F.	\$900	13

COM	COMM BLDG			920.00 UNITS	\$92,000	3
SHD2	Shed - Good			375.00 S.F.	\$6,800	1
SHD2	Shed - Good			375.00 S.F.	\$6,800	1
SHD2	Shed - Good			375.00 S.F.	\$6,800	1
TNK1	TANK-UNDERGRND			120000.00 GALS	\$66,000	13
SHD2	Shed - Good			375.00 S.F.	\$6,800	1

Valuation History

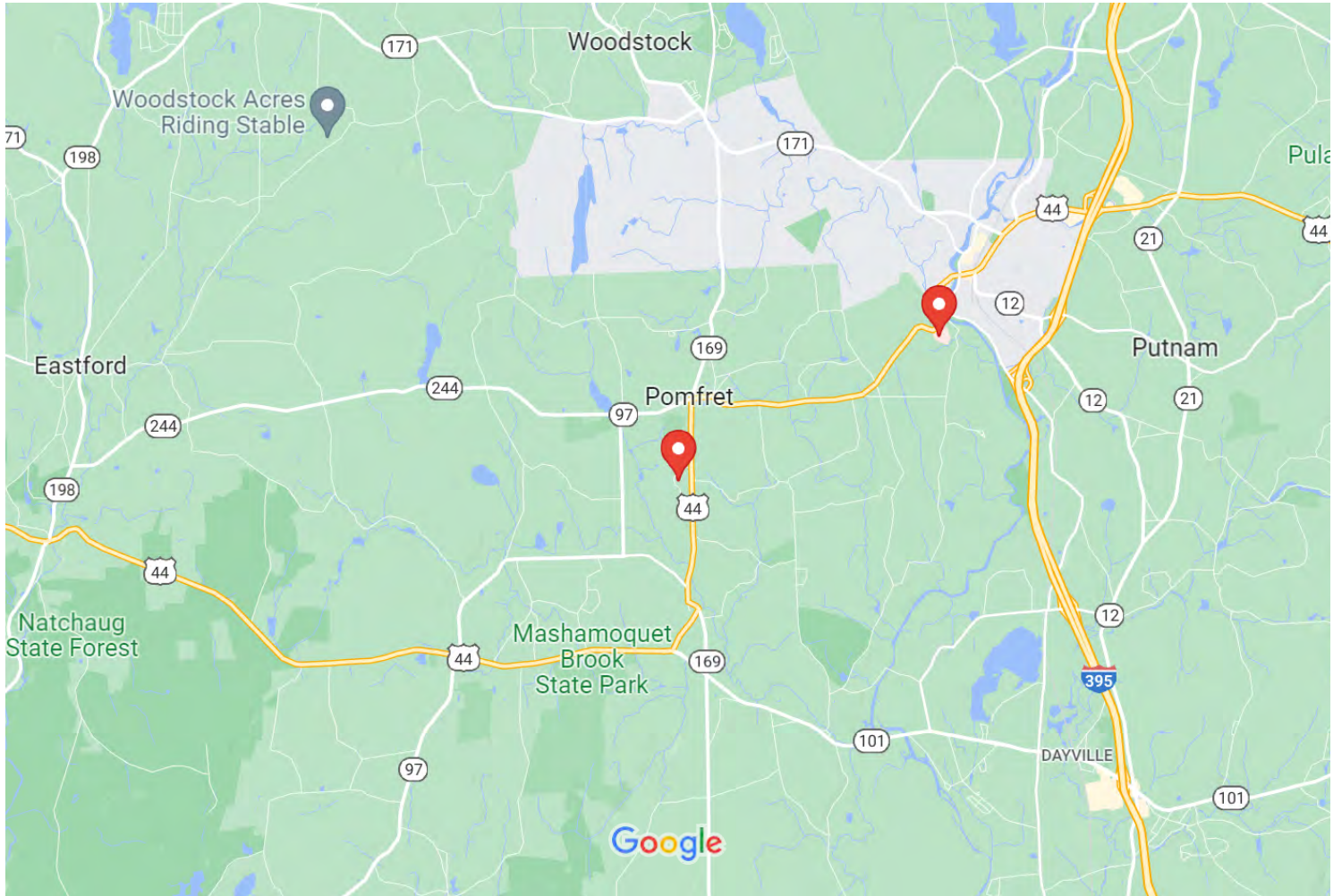
Appraisal			
Valuation Year	Improvements	Land	Total
2021	\$34,229,300	\$1,078,400	\$35,307,700
2020	\$34,229,300	\$1,078,400	\$35,307,700
2019	\$33,138,000	\$1,291,500	\$34,429,500

Assessment			
Valuation Year	Improvements	Land	Total
2021	\$23,961,100	\$754,800	\$24,715,900
2020	\$23,961,100	\$754,800	\$24,715,900
2019	\$23,196,900	\$904,100	\$24,101,000

EXHIBIT 4

Property Map

Google Maps 398 POMFRET ST ,



Map data ©2022 2 mi

EXHIBIT 5

Zoning Documents

TOWN ON POMFRET
APPLICATION FOR WIRELESS TELECOMMUNICATION STRUCTURES

Permit Number: _____
Date Submitted: 10/29/99/ceg
Received by: _____
(Section 2.3.1) Fee: \$1000.00 Pd 10/29/99
CF#05363

(Procedures for this application are explained in the Wireless Telecommunication ordinance)

APPLICANT TO FILL OUT THIS SECTION - Please print

Applicant's Name SBA, Inc. Phone (860) 439-0152
Address 125 Shaw St, New London CT 06320 Fax # (860) 439-0159

Co-Applicant's Name _____ Phone _____
Address _____ Fax # _____

If there is an agent for the applicant, please fill in name below:

Name ESTHER Mc NAMY Phone (860) 439-0152
Address SAME AS APPLICANT Fax # (860) 439-0159

LOCATION OF TOWER

Owner of the land POMFRET SCHOOL INC. Phone (860) 963-5228
Address 398 POMFRET ST, POMFRET, CT 06258
Street Name POMFRET ST Map 19 Block C Lot 001 (Get from Assessor's office)
Nearest roads/intersections: TYRONE RD.

PROPOSED ACTIVITY: (check those that apply)

Commercial Industrial Other-specify WIRELESS TELECOMMUNICATION FACILITY
 New Construction Addition Alteration

Please provide the following information with this application:

- a. Site Plan Ingredients (section 3.2) Five (5) copies of site plan - 24" x 36" at a scale of 1" = 40' prepared by a professional land surveyor licensed in the State of Connecticut.
- b. Name of Connecticut Registration Number of Land Surveyor and Professional Engineer. All final plans must have original signatures on maps.
- c. Soil Erosion and Sediment Control Plan (section 3.3) a map of 1" = 50'
- d. Name of Soil Scientist DAVID H. LORD
- e. Architectural Plans (see section 4.1.2)
- f. Fees: \$1,000.00. Please note: If the cost to process and review the application exceeds the initial fee of \$1000.00, the applicant shall pay all associated costs incurred by the Commission and/or the Town prior to the issuance of a permit. (Section 2.3).

The undersigned hereby acknowledges that this application, to the best of his/her knowledge, conforms to the Wireless Telecommunications Regulations Ordinance of the Town of Pomfret and that approval of the plan is contingent upon compliance with all requirements of said ordinance. The undersigned hereby authorizes the Pomfret Board of Selectmen, or its agent, to enter upon the property for the purpose of inspection and enforcement of said regulations. The undersigned warrants and guarantees that all of the improvements as shown on the final approved site plan map will be installed in a good and workmanlike manner, and individually and severally guarantee to provide all necessary funds with respect thereto.

Signed [Signature] Dated 10/20/99
(Applicant)

Signed [Signature] Dated 10-28-99
(Property Owner)

Note: Before site plan approval is granted, the applicant shall file a surety with the Board of Selectmen payable to the Treasurer of the Town of Pomfret and in a form satisfactory to the Town Counsel and in an amount approved by the Board of Selectmen as sufficient to guarantee completion of those items specified by the Board of Selectmen and in conformity with the provisions of these Regulations or any amendments thereto in force at the time of filing. Such surety shall be held by the Town Clerk who shall not be authorized by the Board of Selectmen to release such bond until written certification has been received from the Building Official that all of the requirements of these Regulations have been fully satisfied.

A public hearing was or was not held on this application. (Section 3.1.1)
Applicant has complied with all requirements of the Ordinance yes. no. In no, explain. IN LIEU OF A SURETY BOND THE TOWN ACCEPTED A PAYMENT OF \$15,000.

Signed [Signature] Date 1-10-99
First Selectmen or Commission Chairman

85

**TOWN OF POMFRET
BOARD OF SELECTMEN'S MINUTES
MEETING OF DECEMBER 6, 1999**

Present: David Patenaude, First Selectman, Thomas Pahl and Charles Balch, Selectmen.
Others Present: Robert Ikonen, Ford Fay, and Esther McNany and Maureen Chmielecki of SBA, Inc.

Dave Patenaude opened the meeting at 7:01 P.M. The minutes of the previous meeting of November 15, 1999 were duly approved.

Citizen Participation: Robert Ikonen informed the Selectmen of Pomfret's plans to participate in the "Israel Putnam March". The Democratic Town Committee has volunteered to help with food preparation. There will be one rest stop in Pomfret at the Old Town House. The "march" is scheduled for April 28-30, 2000. There may be a craft fair and Sally Rogers may sing or Donna Dufresne may perform her Dorcas Higginbotham impersonation. The Boy Scouts plan on having a honor guard, and hopefully, the local VFW may get involved. Discussion followed regarding road security.

Communications: None

Current Business

1. Road Issues:

A. Kearney Fork Speed Humps. Dave reported that he had talked to both the State Police and our insurance company about this issue. Both of which were not crazy about the idea. The police mentioned that they could post a cruiser there to help with the speed problems and was concerned about the signs. Dave has asked the State DOT to do a traffic survey. Chuck mentioned that a few citizens in the area have complained that some cars go through the Kearney Rd. and Kearney Fork intersection without stopping.

B. Wrights Crossing Road Bridge-Guardrails. Dave read a letter from WMC Engineering regarding the guardrails. The letter states that extending the rails would cause a hardship to the neighbor and on the other side of the road to the Wyndham Land Trust. Also that the inspection results state that the guardrails are to specification. Discussion followed and Tom Pahl said he would talk to Don Aubrey, Town Engineer.

2. Wolf Den Springs, LLC. Letters regarding the wetland disturbances have been received from the Army Corps of Engineers and from Don Aubrey, Town Engineer. Dave reported that he is writing to request a joint meeting with the Army Corps and the Board of Selectmen, Inland Wetlands Commission, James Rabbitt, Donald Aubrey, and the applicant, Stephen Perrone. Discussion followed. Tom had concerns regarding working out issues sited with Mr. Perrone. He felt the Selectmen should take the recommendations of Don Aubrey seriously and act on them in systematic way.

3. SBA, Inc. Application for Wireless Telecommunications Structure-Tyrone Road.

Esther McNany of SBA, Inc. submitted the application packet. SBA, Inc. will be using the existing entrance of the Morissettes to get to the site. They have received a declaratory ruling from the Wetlands Commission that a wetlands permit is not required and have received site plan approval from the NEDDH. The tower will be on Pomfret

School property, should have minimal visual impact, and is to extend coverage along Route 44. The tower will be the same height as the existing SNET tower and. Ms. McNany stated that all requirements of the Town Ordinance have been complied with. Discussion followed on the expected cell tower users, whether the use of existing buildings and/or structures were considered. Tom asked what other areas are not covered and will there be other towers. Ms. McNany said there is a need along Route 97 and there may possibly be two more towers. The next tower may be on Easter Hill.

Dave asked about the bond requirement and how this was handled with a \$10,000 in lieu of contribution with the last tower SBA did. Discussion followed on this issue and the 65 day timeline for approval. The application fee of \$1,000 has been paid. The Selectmen requested the amount of \$15,000 that could be paid in lieu of the security bond. SBA, Inc. is to return back to the next meeting with an answer to this request.

New Business

1. Billboards-Moratorium. Dave asked the Selectmen for support to declare a six month moratorium on billboards. He reported that we have (recently) received three applications for these in Town, and that he would like to bring an ordinance to Town Meeting regarding this. Discussion followed. Tom made motion for a moratorium to construct billboards for six months that began December 1, 1999. Dave seconded the motion. Motion was approved with two in favor and Chuck Balch abstaining due to a conflict of interest.

Other Business:

Tom reported that he attended the Tobacco Needs Assessment in NE CT meeting. He said there was a poor turn out and felt bad for Bob Brex, who sponsored this. Grant money is available to Towns for materials to educate kids on tobacco awareness.

Chuck reported that both a copy of the letter to John LaConche and a proposal letter was submitted at the NELTA board of trustee meeting. Mr. LaConche felt the proposal has a good chance and it will go officially before the board in January. Chuck also reported that the Recreation Committee recommends that the Board of Selectmen go ahead with the soccer field(s) at the Murdock property. Also an extension until mid year 2001 has been received on the DEP recreation grant. The Committee also wishes that the Selectmen take a positive step to use the Murdock property for the grant monies. Discussion followed. Discussion took place on other possible land for recreation. Chuck would like to make inquiries regarding the Modica land with the Recreation Committee.

Discussion took place regarding the Open Space Land Trust Ordinance. The ordinance has been give to the Selectmen for action to take to Town Meeting.

Approve Schedule of Meetings Year 2000. Motion was duly passed to approve the schedule of meetings for 2000 as presented.

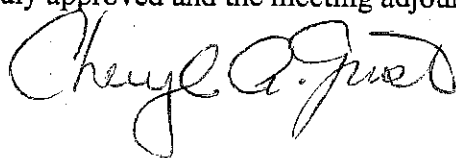
Tax Refunds/Abatements: None

Gun Permits: None

Approval to Pay Bills: Manual checks #6076-6086 dated 11/17-11/30/99 for \$48,510.37 and checks #6087-6089 dated 12/1/99 for \$883.76; checks #17950-17952 dated 11/17 for \$897.96; and bill checks dated 12/6/99 for \$65,388.44. Motion was duly passed to approve the bills as presented.

Adjournment: Motion was duly approved and the meeting adjourned at 8:40 P.M.

Respectfully submitted,



Cheryl A. Grist, Clerk

**TOWN OF POMFRET
BOARD OF SELECTMEN'S MINUTES
MEETING OF DECEMBER 20, 1999**

Present: David Patenaude, First Selectman, Charles Balch and Thomas Pahl, Selectmen. Others Present: Esther McNany of SBA, Inc. and Henry Woodbridge.

David Patenaude opened the meeting at 8:07 A.M. The minutes of the previous meeting of December 6, 1999 were duly approved with one correction under Other Business from "Also an extension from the year 2000" to "2001".

Citizen Participation: None

Communications: None

Current Business

1. **Road Issues**-None at this time.

2. **SBA, Inc. Application for Wireless Telecommunications Structure-Tyrone Road.** Esther McNany of SBA, Inc. presented the Board of Selectmen with a check in the amount the \$15,000 as a donation for recreation land in lieu of the surety bond. The check was accepted by the Selectmen. Motion was made by Tom Pahl to approve the application, Chuck Balch seconded and discussion followed. Dave Patenaude mentioned that a pilot called to say the tower is in the direct line with the Woodstock Airport strip. Esther McNany said that since this is a small, private airport FAA did not require them to take this into consideration. Ms. McNany said the cell tower is below the height that would require lighting. The Selectmen felt all was in order. Motion was voted and approved unanimously.

3. **Recreation Site Committee-Report.** Chuck Balch reported that the Committee would like the Selectmen to take whatever steps necessary so they can begin to take steps to use the Murdock property for a soccer field and senior baseball field. Chuck made a motion to begin development at the Murdock property for recreation purposes. Tom seconded and discussion followed. Chuck said they would like first to make a practice field for soccer and a senior league baseball field. He was not sure on the specifics or exact plans of how and where. Dave reminded him that to do this would include the entrance off Route 101 issue and the fact that we are still taking gravel from this area. Tom felt the Selectmen need a proposal of exactly what the Committee plans on doing and who will handle what needs to be done. Discussion also followed on: 1) the recreation grant and the money to match this; 2) the issue of investing the money for a short term answer to immediate needs; 3) what about the gravel issue; 4) and who will be overseeing the construction etc. Tom Pahl felt the Selectmen would need to check with the State DOT regarding the entrance off Route 101.

There was much discussion on what authority the Recreation Site Committee has or doesn't have and would a new committee need to be appointed or should the Selectmen handle this. Discussion followed on whether the Selectmen should act on the Committee's recommendation and/or find another piece of property better suited. Chuck said the Committee felt, in order to meet the present needs and to use the recreation grant and not lose it, this was the best answer a this time. Chuck amended the motion that the Board of Selectmen accept the recommendation of the Site Committee that we develop recreation in two locations and that one location be the Murdock property. Tom seconded the motion and more discussion followed. Tom felt that they should still keep exploring other pieces of land. He said he would be willing to help on the Committee. He said he would be

EXHIBIT 6

Construction Drawings

SPECIAL CONSTRUCTION NOTE:
 GENERAL CONTRACTOR SHALL FURNISH AND INSTALL ALL ANTENNA MOUNT STRUCTURAL AUGMENTS (STRUCTURAL MODIFICATIONS) AT T-MOBILE'S RAD/VERTICAL EQUIPMENT SPACE PER RECOMMENDATIONS FROM SBA-PROVIDED ANTENNA MOUNT STRUCTURAL ANALYSIS AND ANY SUPPLEMENTAL CONSTRUCTION DRAWINGS (PROVIDED BY OTHERS).

CT525/SBA POMFRET #2

398 POMFRET STREET
 PROMFRET, CT 06258
 WINDHAM COUNTY

SITE NO.: CT11525A

SITE TYPE: 168'± MONOPOLE

RF DESIGN GUIDELINE: 67D5A998E ODE+6160

SCOPE OF WORK

REMOVE:

- 3 ANTENNAS
- 3 TMAs
- ALL COAX CABLES

INSTALL:

- 6 ANTENNAS
- 3 RRU's
- 1 B160 BATTERY CABINET
- 1 6160 CABINET
- 1 SLACKBOX
- 1 HYBRID CABLES

SITE NOTES

1. THIS IS AN UNMANNED AND RESTRICTED ACCESS TELECOMMUNICATION FACILITY, AND IS NOT FOR HUMAN HABITATION. IT WILL BE USED FOR THE TRANSMISSION OF RADIO SIGNAL FOR THE PURPOSE OF PROVIDING PUBLIC CELLULAR SERVICE.
 - ADA COMPLIANCE NOT REQUIRED.
 - POTABLE WATER OR SANITARY SERVICE IS NOT REQUIRED.
 - NO OUTDOOR STORAGE OR ANY SOLID WASTE RECEPTACLES REQUIRED.
2. CONTRACTOR SHALL VERIFY ALL PLANS, EXISTING DIMENSIONS, AND CONDITIONS ON 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 PLACE THE RESPONSIBILITY ON THE CONTRACTOR TO CORRECT THE DISCREPANCIES AT THE CONTRACTOR'S EXPENSE.
3. NEW CONSTRUCTION WILL CONFORM TO ALL APPLICABLE CODES AND ORDINANCES.
 - BUILDING CODE: 2018 CONNECTICUT STATE BUILDING CODE
 - ELECTRICAL CODE: 2017 NATIONAL ELECTRICAL CODE
 - STRUCTURAL CODE: TIA/EIA-222-G STRUCTURAL STANDARDS FOR ANTENNA SUPPORTING STRUCTURES AND ANTENNAS.

APPROVALS

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

T-MOBILE TECHNICIAN SITE SAFETY NOTES

LOCATION	SPECIAL RESTRICTIONS
SECTOR A:	ACCESS BY CERTIFIED CLIMBER
SECTOR B:	ACCESS BY CERTIFIED CLIMBER
SECTOR C:	ACCESS BY CERTIFIED CLIMBER
GPS/LMU:	UNRESTRICTED
RADIO CABINETS:	UNRESTRICTED
PPC DISCONNECT:	UNRESTRICTED
MAIN CIRCUIT D/C:	UNRESTRICTED
NIU/T DEMARC:	UNRESTRICTED
OTHER/SPECIAL:	NONE

GENERAL NOTES

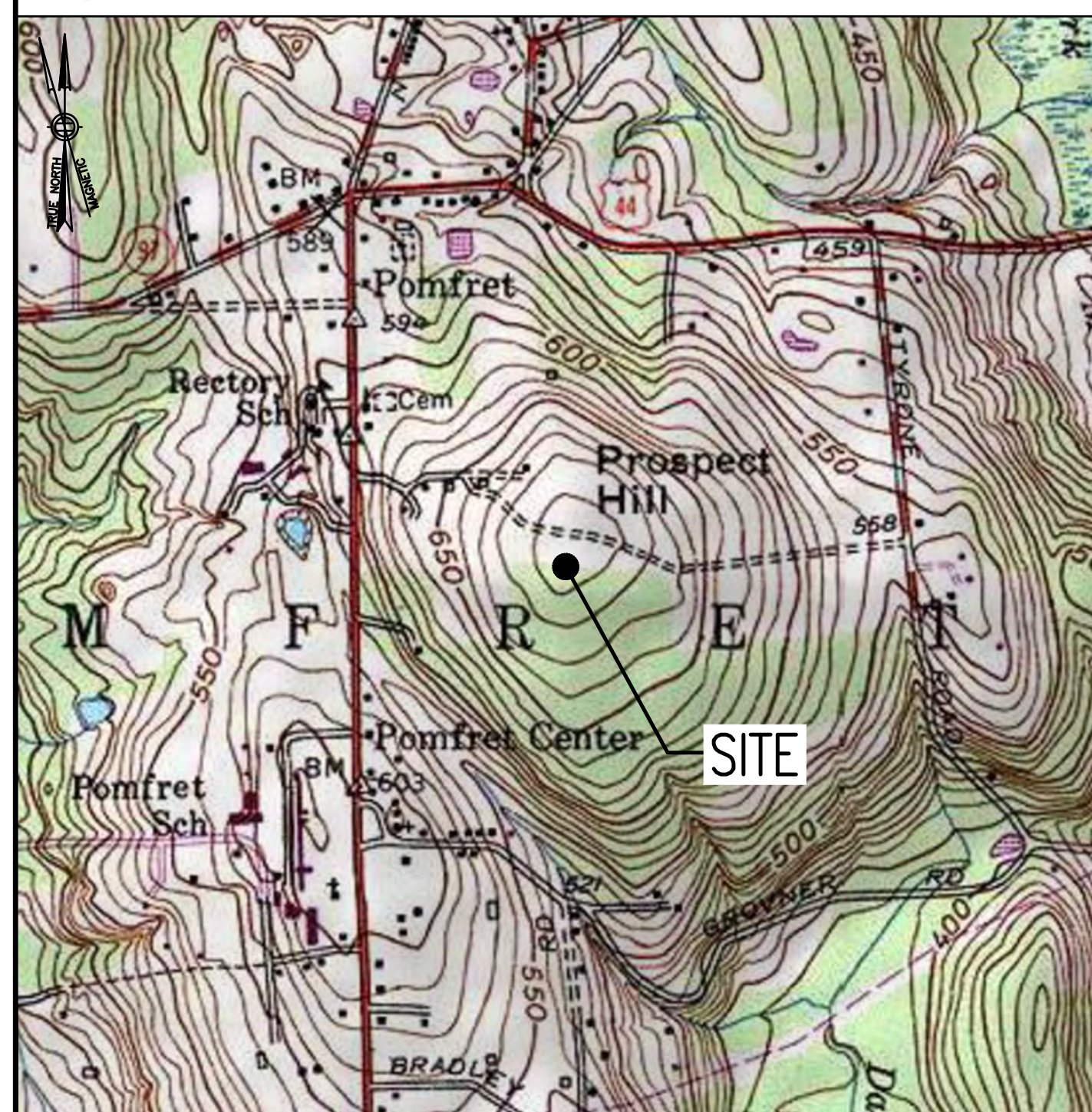
1. THE CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY, MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS, AND LOCAL AND STATE JURISDICTIONAL CODES BEARING ON THE PERFORMANCE OF THE WORK. THE WORK PERFORMED ON THE PROJECT AND THE MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES.
2. THE ARCHITECT/ENGINEER HAVE MADE EVERY EFFORT TO SET FORTH IN THE CONSTRUCTION AND CONTRACT DOCUMENTS THE COMPLETE SCOPE OF WORK. THE CONTRACTOR BIDDING THE JOB IS NEVERTHELESS CAUTIONED THAT MINOR OMISSIONS OR ERRORS IN THE DRAWINGS AND OR SPECIFICATIONS SHALL NOT EXCUSE SAID CONTRACTOR FROM COMPLETING THE PROJECT AND IMPROVEMENTS IN ACCORDANCE WITH THE INTENT OF THESE DOCUMENTS.
3. THE CONTRACTOR OR BIDDER SHALL BEAR THE RESPONSIBILITY OF NOTIFYING (IN WRITING) THE ONPOINT REPRESENTATIVE OF ANY CONFLICTS, ERRORS, OR OMISSIONS PRIOR TO THE SUBMISSION OF CONTRACTOR'S PROPOSAL OR PERFORMANCE OF WORK. IN THE EVENT OF DISCREPANCIES THE CONTRACTOR SHALL PRICE THE MORE COSTLY OR EXTENSIVE WORK, UNLESS DIRECTED IN WRITING OTHERWISE.
4. THE SCOPE OF WORK SHALL INCLUDE FURNISHING ALL MATERIALS, EQUIPMENT, LABOR AND ALL OTHER MATERIALS AND LABOR DEEMED NECESSARY TO COMPLETE THE WORK/PROJECT AS DESCRIBED HEREIN.
5. THE CONTRACTOR SHALL VISIT THE JOB SITE PRIOR TO THE SUBMISSION OF BIDS OR PERFORMING WORK TO FAMILIARIZE HIMSELF WITH THE FIELD CONDITIONS AND TO VERIFY THAT THE PROJECT CAN BE CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
6. THE CONTRACTOR SHALL OBTAIN AUTHORIZATION TO PROCEED WITH CONSTRUCTION PRIOR TO STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED BY THE CONSTRUCTION DRAWINGS/CONTRACT DOCUMENTS.
7. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS ACCORDING TO THE MANUFACTURER'S/VENDOR'S SPECIFICATIONS UNLESS NOTED OTHERWISE OR WHERE LOCAL CODES OR ORDINANCES TAKE PRECEDENCE.
8. THE CONTRACTOR SHALL PROVIDE A FULL SET OF CONSTRUCTION DOCUMENTS AT THE SITE, UPDATED WITH THE LATEST REVISIONS AND ADDENDUMS OR CLARIFICATIONS AVAILABLE FOR THE USE BY ALL PERSONNEL INVOLVED WITH THE PROJECT.
9. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
10. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL NECESSARY CONSTRUCTION CONTROL SURVEYS, ESTABLISHING AND MAINTAINING ALL LINES AND GRADES REQUIRED TO CONSTRUCT ALL IMPROVEMENTS AS SHOWN HEREIN.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS WHICH MAY BE REQUIRED FOR THE WORK BY THE ARCHITECT/ENGINEER, THE STATE, COUNTY OR LOCAL GOVERNMENT AUTHORITY.
12. THE CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT EXISTING IMPROVEMENTS, EASEMENTS, PAVING, CURBING, ETC. DURING CONSTRUCTION. UPON COMPLETION OF WORK, THE CONTRACTOR SHALL REPAIR ANY DAMAGE THAT MAY HAVE OCCURRED DUE TO CONSTRUCTION ON OR ABOUT THE PROPERTY.
13. THE CONTRACTOR SHALL KEEP THE GENERAL WORK AREA CLEAN AND HAZARD FREE DURING CONSTRUCTION AND DISPOSE OF ALL DIRT, DEBRIS, RUBBISH AND REMOVE EQUIPMENT NOT SPECIFIED AS REMAINING ON THE PROPERTY. PREMISES SHALL BE LEFT IN CLEAN CONDITION AND FREE FROM PAINT SPOTS, DUST, OR SMUDGES OF ANY NATURE.
14. THE CONTRACTOR SHALL COMPLY WITH ALL OSHA REQUIREMENTS AS THEY APPLY TO THIS PROJECT.
15. THE CONTRACTOR SHALL NOTIFY THE PROJECT OWNER'S REPRESENTATIVE WHERE A CONFLICT OCCURS ON ANY OF THE CONTRACT DOCUMENTS. THE CONTRACTOR IS NOT TO ORDER MATERIAL OR CONSTRUCT ANY PORTION OF THE WORK THAT IS IN CONFLICT UNTIL CONFLICT IS RESOLVED BY THE LESSEE/LICENSEE REPRESENTATIVE.
16. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, PROPERTY LINES, ETC. ON THE JOB.
17. ALL UNDERGROUND UTILITY INFORMATION WAS DETERMINED FROM SURFACE INVESTIGATIONS AND EXISTING PLANS OF RECORD. THE CONTRACTOR SHALL LOCATE ALL UNDERGROUND UTILITIES IN THE FIELD PRIOR TO ANY SITE WORK.

AT LEAST 72 HOURS PRIOR TO DIGGING, THE CONTRACTOR IS REQUIRED TO CALL DIG SAFE AT 811



VICINITY MAP

SCALE: 1" = 1000'-0"



DIRECTIONS

MERGE ONTO I-495 NORTH TOWARD MANSFIELD/MARLBORO. TAKE EXIT 33B FOR I-95 SOUTH TOWARD PROVIDENCE RI. KEEP RIGHT AT FORK TO STAY ON I-95 SOUTH. TAKE EXIT 93 FOR CT-216 TOWARD CT-184/CLARKS FALLS. TURN RIGHT ONTO CT-216 NORTH/CLARKS FALLS ROAD. TURN LEFT ONTO CT-184 WEST. AT TRAFFIC CIRCLE, TAKE 1ST EXIT ONTO CT-2 WEST/STATE HIGHWAY 184. SITE IS LOCATED ON THE LEFT HAND SIDE.

SHEET INDEX

SHT. NO.	DESCRIPTION	VER.
T-1	TITLE SHEET	0
GN-1	GENERAL NOTES	0
A-1	COMPOUND & EQUIPMENT PLAN	0
A-2	TOWER ELEVATIONS & ANTENNA PLAN	0
A-3	SITE DETAILS	0
A-4	ANTENNA & FEEDLINE CHARTS	0
E-1	ELECTRIC & GROUNDING DETAILS	0

DO NOT SCALE DRAWINGS

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

PROJECT SUMMARY

SITE NUMBER:	CT11525A
SITE NAME:	CT525/SBA POMFRET #2
SBA SITE NUMBER:	CT02217-S
SBA SITE NAME:	POMFRET SCHOOL
SITE ADDRESS:	398 POMFRET STREET POMFRET, CT 06258
PROPERTY OWNER:	POMFRET SCHOOL, INC. 84 TYRONE ROAD POMFRET, CT 06258
TOWER OWNER:	SBA PROPERTIES, LLC 8501 CONGRESS AVENUE BOCA RATON, FL 33487 PHONE: 561-226-9523
COUNTY:	WINDHAM
ZONING DISTRICT:	RR
STRUCTURE TYPE:	MONOPOLE
STRUCTURE HEIGHT:	168'±
APPLICANT:	T-MOBILE NORTHEAST LLC 15 COMMERCE WAY, SUITE B NORTON, MA 02766
ARCHITECT:	CHAPPELL ENGINEERING ASSOCIATES, LLC. 201 BOSTON POST ROAD WEST, SUITE 101 MARLBOROUGH, MA 01752
STRUCTURAL ENGINEER:	CHAPPELL ENGINEERING ASSOCIATES, LLC. 201 BOSTON POST ROAD WEST, SUITE 101 MARLBOROUGH, MA 01752
SITE CONTROL POINT:	LATITUDE: 41.890311° N 41°53'25.12" LONGITUDE: -71.955084° W 71°57'18.30"

SPECIAL ZONING NOTE:

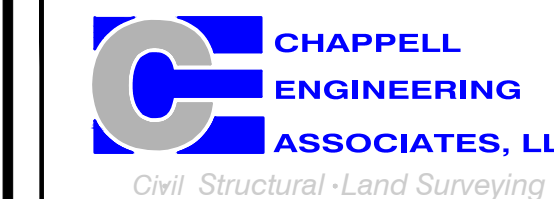
BASED ON INFORMATION PROVIDED BY T-MOBILE REGULATORY COMPLIANCE PROFESSIONALS AND LEGAL COUNSEL, THIS TELECOMMUNICATIONS EQUIPMENT DEPLOYMENT IS CONSIDERED AN ELIGIBLE FACILITY UNDER THE MIDDLE CLASS TAX RELIEF AND JOB CREATION ACT OF 2012, 47 USC 1455(A), SECTION 6409(A), AND IS SUBJECT TO AN ELIGIBLE FACILITY REQUEST, EXPEDITED REVIEW, AND LIMITED/PARTIAL ZONING PRE-EMPTION FOR LOCAL DISCRETIONARY PERMITS (VARIANCE, SPECIAL PERMIT, SITE PLAN REVIEW, OR ADMINISTRATIVE REVIEW).

T-MOBILE NORTHEAST LLC

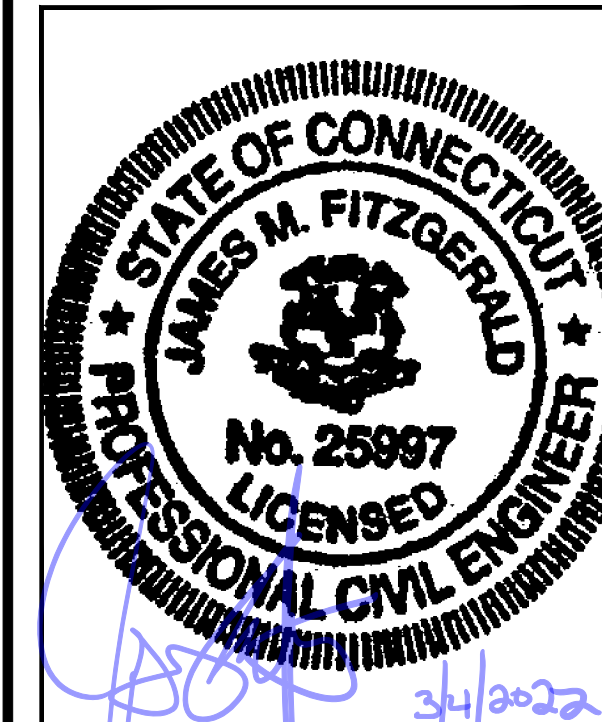
15 COMMERCE WAY, SUITE B
 NORTON, MA 02766
 (508) 286-2700



SBA COMMUNICATIONS CORP.
 134 FLANDERS ROAD, SUITE 125
 WESTBOROUGH, MA 01581
 (508) 251-0720



R.K. EXECUTIVE CENTRE
 201 BOSTON POST ROAD WEST, SUITE 101
 MARLBOROUGH, MA 01752
 (508) 481-7400
 www.chappellengineering.com



CHECKED BY: JMT

APPROVED BY: JMT

SUBMITTALS			
REV.	DATE	DESCRIPTION	BY
0	12/23/21	ISSUED FOR CONSTRUCTION	JRV

SITE NUMBER:
CT11525A

SITE ADDRESS:
 398 POMFRET STREET
 POMFRET, CT 06258

SHEET TITLE
TITLE SHEET

SHEET NUMBER
T-1

GENERAL NOTES:

- FOR THE PURPOSE OF CONSTRUCTION DRAWINGS, THE FOLLOWING DEFINITIONS SHALL APPLY:
CONTRACTOR – T-MOBILE
SUBCONTRACTOR – GENERAL CONTRACTOR (CONSTRUCTION)
OWNER – T-MOBILE
OEM – ORIGINAL EQUIPMENT MANUFACTURER
- PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING SUBCONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF CONTRACTOR.
- ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. SUBCONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK.
- ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL, STATE AND FEDERAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
- DRAWINGS PROVIDED HERE ARE NOT TO BE SCALED AND ARE INTENDED TO SHOW OUTLINE ONLY.
- UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
- THE SUBCONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
- IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE SUBCONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY THE CONTRACTOR.
- SUBCONTRACTOR SHALL DETERMINE ACTUAL ROUTING OF CONDUIT, POWER, T1 CABLES AND GROUNDING CABLES AS SHOWN ON THE POWER, GROUNDING AND TELCO PLAN DRAWING. SUBCONTRACTOR SHALL UTILIZE EXISTING TRAYS AND/OR SHALL ADD NEW TRAYS AS NECESSARY. SUBCONTRACTOR SHALL CONFIRM THE ACTUAL ROUTING WITH THE CONTRACTOR AND/OR LANDLORD PRIOR TO CONSTRUCTION.
- THE SUBCONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT SUBCONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.
- SUBCONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY.
- SUBCONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION AND RETURN DISTURBED AREAS TO ORIGINAL CONDITIONS.
- THE SUBCONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN. THE SUBCONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
- SUBCONTRACTOR SHALL NOTIFY CHAPPELL ENGINEERING ASSOCIATES, LLC 48 HOURS IN ADVANCE OF POURING CONCRETE OR BACKFILLING TRENCHES, SEALING ROOF AND WALL PENETRATIONS AND POST DOWNS, FINISHING NEW WALLS OR FINAL ELECTRICAL CONNECTIONS FOR ENGINEERING REVIEW.
- CONSTRUCTION SHALL COMPLY WITH ALL T-MOBILE STANDARDS AND SPECIFICATIONS.
- SUBCONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS MUST BE VERIFIED. SUBCONTRACTOR SHALL NOTIFY THE CONTRACTOR OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
- THE EXISTING CELL SITES ARE IN FULL COMMERCIAL OPERATION. ANY CONSTRUCTION WORK BY SUBCONTRACTOR SHALL NOT DISRUPT THE EXISTING NORMAL OPERATION. ANY WORK ON EXISTING EQUIPMENT MUST BE COORDINATED WITH CONTRACTOR. ALSO, WORK SHOULD BE SCHEDULED FOR AN APPROPRIATE MAINTENANCE WINDOW USUALLY IN LOW TRAFFIC PERIODS AFTER MIDNIGHT.
- IF THE EXISTING CELL SITE IS ACTIVE, ALL SAFETY PRECAUTIONS MUST BE TAKEN WHEN WORKING AROUND HIGH LEVELS OF ELECTROMAGNETIC RADIATION. EQUIPMENT SHOULD BE SHUTDOWN PRIOR TO PERFORMING ANY WORK THAT COULD EXPOSE THE WORKERS TO DANGER. PERSONAL RF EXPOSURE MONITORS ARE TO BE WORN TO ALERT OF ANY DANGEROUS EXPOSURE LEVELS.

SITE WORK GENERAL NOTES:

- THE SUBCONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.
- ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES, AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY ENGINEERS. EXTREME CAUTION SHOULD BE USED BY THE SUBCONTRACTOR WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES. SUBCONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS WILL INCLUDE BUT NOT BE LIMITED TO A) FALL PROTECTION B) CONFINED SPACE C) ELECTRICAL SAFETY D) TRENCHING AND EXCAVATION.
- ALL SITE WORK SHALL BE AS INDICATED ON THE DRAWINGS AND PROJECT SPECIFICATIONS.
- IF NECESSARY, RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.
- THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE BTS EQUIPMENT AND TOWER AREAS.
- NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND. FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.
- THE SUB GRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION.
- ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF ENGINEERING, OWNER AND/OR LOCAL UTILITIES.
- THE AREAS OF THE OWNERS PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE TOWER, EQUIPMENT OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM SLOPE AND STABILIZED TO PREVENT EROSION AS SPECIFIED IN THE PROJECT SPECIFICATIONS.
- SUBCONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE LOCAL GUIDELINES FOR EROSION AND SEDIMENT CONTROL.
- THE SUBCONTRACTOR SHALL PROVIDE SITE SIGNAGE IN ACCORDANCE WITH THE T-MOBILE SPECIFICATION FOR SITE SIGNAGE.

CONCRETE AND REINFORCING STEEL NOTES:

- ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 301, ACI 318, ACI 336, ASTM A184, ASTM A185 AND THE DESIGN AND CONSTRUCTION SPECIFICATION FOR CAST-IN-PLACE CONCRETE.
- ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS, UNLESS NOTED OTHERWISE. A HIGHER STRENGTH (400PSI) MAY BE USED. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 381 CODE REQUIREMENTS
- REINFORCING STEEL SHALL CONFORM TO ASTM A 615, GRADE 60, DEFORMED UNLESS NOTED OTHERWISE. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A 185 WELDED STEEL WIRE FABRIC UNLESS NOTED OTHERWISE. SPLICES SHALL BE CLASS "B" AND ALL HOOKS SHALL BE STANDARD, UNO.
- THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON DRAWINGS:
CONCRETE CAST AGAINST EARTH.....3 IN.
CONCRETE EXPOSED TO EARTH OR WEATHER:
#6 AND LARGER2 IN.
#5 AND SMALLER & WWF1½ IN.
CONCRETE NOT EXPOSED TO EARTH OR WEATHER OR NOT CAST AGAINST THE GROUND:
SLAB AND WALL¾ IN.
BEAMS AND COLUMNS½ IN.
- A CHAMFER ¾" SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE, UNO, IN ACCORDANCE WITH ACI 301 SECTION 4.2.4.
- INSTALLATION OF CONCRETE EXPANSION/WEDGE ANCHORS SHALL BE PER MANUFACTURER'S WRITTEN RECOMMENDED PROCEDURE. THE ANCHOR BOLT, DOWEL OR ROD SHALL CONFORM TO THE MANUFACTURERS RECOMMENDATION FOR EMBEDMENT DEPTH OR AS SHOWN ON THE DRAWINGS. NO REBAR SHALL BE CUT WITHOUT PRIOR CONTRACTOR APPROVAL WHEN DRILLING HOLES IN CONCRETE. SPECIAL INSPECTIONS, REQUIRED BY GOVERNING CODES, SHALL BE PERFORMED IN ORDER TO MAINTAIN MANUFACTURER'S MAXIMUM ALLOWABLE LOADS. ALL EXPANSION/WEDGE ANCHORS SHALL BE STAINLESS STEEL OR HOT DIPPED GALVANIZED. EXPANSION BOLTS SHALL BE PROVIDED BY SIMPSON OR APPROVED EQUAL.
- CONCRETE CYLINDER TIES ARE NOT REQUIRED FOR SLAB ON GRADE WHEN CONCRETE IS LESS THAN 50 CUBIC YARDS (IBC1905.6.2.3) IN THAT EVENT THE FOLLOWING RECORDS SHALL BE PROVIDED BY THE CONCRETE SUPPLIER;
(A) RESULTS OF CONCRETE CYLINDER TEST PERFORMED AT THE SUPPLIERS PLANT.
(B) CERTIFICATION OF MINIMUM COMPRESSIVE STRENGTH FOR THE CONCRETE GRADE SUPPLIED.
FOR GREATER THAN 50 CUBIC YARDS THE GC SHALL PERFORM THE CONCRETE CYLINDER TEST.
- AS AN ALTERNATIVE TO ITEM 7. TEST CYLINDERS SHALL BE TAKEN INITIALLY AND THEREAFTER FOR EVERY 50 YARDS OF CONCRETE FROM EACH DIFFERENT BATCH PLANT.
- EQUIPMENT SHALL NOT BE PLACED ON NEW PADS FOR SEVEN DAYS AFTER PAD IS POURED, UNLESS IT IS VERIFIED BY CYLINDER TESTS THAT COMPRESSIVE STRENGTH HAS BEEN ATTAINED.

STRUCTURAL STEEL NOTES:

- ALL STEEL WORK SHALL BE PAINTED OR GALVANIZED IN ACCORDANCE WITH THE DRAWINGS AND T-MOBILE SPECIFICATIONS UNLESS OTHERWISE NOTED. STRUCTURAL STEEL SHALL BE ASTM-A-36 UNLESS OTHERWISE NOTED ON THE SITE SPECIFIC DRAWINGS. STEEL DESIGN, INSTALLATION AND BOLTING SHALL BE IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) "MANUAL OF STEEL CONSTRUCTION".
- ALL WELDING SHALL BE PERFORMED USING E70XX ELECTRODES AND WELDING SHALL CONFORM TO AISC AND AWS D1.1. WHERE FILLET WELD SIZES ARE NOT SHOWN, PROVIDE THE MINIMUM SIZE PER TABLE J2.4 IN THE AISC "MANUAL OF STEEL CONSTRUCTION", 9TH EDITION. PAINTED SURFACES SHALL BE TOUCHED UP.
- BOLTED CONNECTIONS SHALL USE BEARING TYPE ASTM A325 BOLTS (¾") AND SHALL HAVE MINIMUM OF TWO BOLTS UNLESS NOTED OTHERWISE. ALL BOLTS SHALL BE GALVANIZED OR STAINLESS STEEL.
- NON-STRUCTURAL CONNECTIONS FOR STEEL GRATING MAY USE ¾" DIA. ASTM A 307 BOLTS (GALV) UNLESS NOTED OTHERWISE.
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ENGINEER REVIEW & APPROVAL ON PROJECTS REQUIRING STRUCTURAL STEEL.
- ALL STRUCTURAL STEEL WORK SHALL BE DONE IN ACCORDANCE WITH AISC SPECIFICATIONS.

SOIL COMPACTION NOTES FOR SLAB ON GRADE:

- EXCAVATE AS REQUIRED TO REMOVE VEGETATION AND TOPSOIL TO EXPOSE NATURAL SUBGRADE AND PLACE CRUSHED STONE AS REQUIRED.
- COMPACTION CERTIFICATION: AN INSPECTION AND WRITTEN CERTIFICATION BY A QUALIFIED GEOTECHNICAL TECHNICIAN OR ENGINEER IS ACCEPTABLE.
- AS AN ALTERNATE TO INSPECTION AND WRITTEN CERTIFICATION, THE "UNDISTURBED SOIL" BASE SHALL BE COMPACTED WITH "COMPACTION EQUIPMENT", LISTED BELOW, TO AT LEAST 90% MODIFIED PROCTOR MAXIMUM DENSITY PER ASTM D 1557 METHOD C.
- COMPACTED SUBBASE SHALL BE UNIFORM AND LEVELED. PROVIDE 6" MINIMUM CRUSHED STONE OR GRAVEL COMPACTED IN 3" LIFTS ABOVE COMPACTED SOIL. GRAVEL SHALL BE NATURAL OR CRUSHED WITH 100% PASSING #1 SIEVE.
- AS AN ALTERNATE TO ITEMS 2 AND 3, THE SUBGRADE SOILS WITH 5 PASSES OR A MEDIUM SIZED VIBRATORY PLATE COMPACTOR (SUCH AS BOMAG BPR 30/38) OR HAND-OPERATED SINGLE DRUM VIBRATORY ROLLER (SUCH AS BOMAG BW 55E). AND SOFT AREAS THAT ARE ENCOUNTERED SHOULD BE REMOVED AND REPLACED WITH A WELL-GRADED GRANULAR FILL AND COMPACTED AS STATED ABOVE.

COMPACTION EQUIPMENT:

- HAND OPERATED DOUBLE DRUM, VIBRATORY ROLLER, VIBRATORY PLATE COMPACTOR OR JUMPING JACK COMPACTOR.

CONSTRUCTION NOTES:

- FIELD VERIFICATION:
SUBCONTRACTOR SHALL FIELD VERIFY SCOPE OF WORK, T-MOBILE ANTENNA PLATFORM LOCATION AND UTILITY TRENCHWORK.
- COORDINATION OF WORK:
SUBCONTRACTOR SHALL COORDINATE RF WORK AND PROCEDURES WITH CONTRACTOR.
- CABLE LADDER RACK:
SUBCONTRACTOR SHALL FURNISH AND INSTALL CABLE LADDER RACK, CABLE TRAY AND/OR ICE BRIDGE, AND CONDUIT AS REQUIRED TO SUPPORT CABLES TO THE NEW BTS LOCATION.

ELECTRICAL INSTALLATION NOTES:

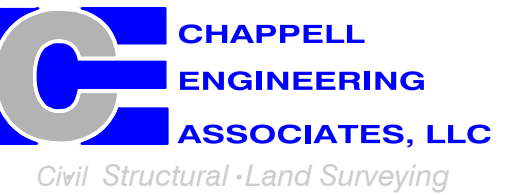
- WIRING, RACEWAY, AND SUPPORT METHODS AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE NEC AND TERCORDIA.
- SUBCONTRACTOR SHALL MODIFY OR INSTALL CABLE TRAY SYSTEM AS REQUIRED TO SUPPORT RF AND TRANSPORT CABLE TO THE NEW BTS EQUIPMENT. SUBCONTRACTOR SHALL SUBMIT MODIFICATIONS TO CONTRACTOR FOR APPROVAL.
- ALL CIRCUITS SHALL BE SEGREGATED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE NEC AND TERCORDIA.
- CABLES SHALL NOT BE ROUTED THROUGH LADDER-STYLE CABLE TRAY RUNGS.
- EACH END OF EVERY POWER, GROUNDING, AND T1 CONDUCTOR AND CABLE SHALL BE LABELED WITH COLOR-CODED INSULATION OR ELECTRICAL TAPE (3M BRAND, 1/2 INCH PLASTIC ELECTRICAL TAPE WITH UV PROTECTION, OR EQUAL). THE IDENTIFICATION METHOD SHALL CONFORM WITH NEC AND OSHA, AND MATCH INSTALLATION REQUIREMENTS.
- POWER PHASE CONDUCTORS (I.E., HOTS) SHALL BE LABELED WITH COLOR-CODED INSULATION OR ELECTRICAL TAPE (3M BRAND, ½ INCH PLASTIC ELECTRICAL TAPE WITH UV PROTECTION, OR EQUAL). PHASE CONDUCTOR COLOR CODES SHALL CONFORM WITH THE NEC AND OSHA.
- ALL ELECTRICAL COMPONENTS SHALL BE CLEARLY LABELED WITH ENGRAVED LAMACOID PLASTIC LABELS. ALL EQUIPMENT SHALL BE LABELED WITH THEIR VOLTAGE RATING, PHASE CONFIGURATION, WIRE CONFIGURATION, POWER OR AMPACITY RATING, AND BRANCH CIRCUIT ID NUMBERS (I.E., PANELBOARD AND CIRCUIT ID'S).
- PANELBOARDS (ID NUMBERS) AND INTERNAL CIRCUIT BREAKERS (CIRCUIT ID NUMBERS) SHALL BE CLEARLY LABELED WITH ENGRAVED LAMACOID PLASTIC LABELS.
- ALL TIE WRAPS SHALL BE CUT FLUSH WITH APPROVED CUTTING TOOL TO REMOVE SHARP EDGES.
- POWER, CONTROL, AND EQUIPMENT GROUND WIRING IN TUBING OR CONDUIT SHALL BE SINGLE CONDUCTOR (#34 AWG OR LARGER), 600 V, OIL RESISTANT THHN OR THWN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90 °C (WET AND DRY) OPERATION; LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED, UNLESS OTHERWISE SPECIFIED.
- SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED INDOORS SHALL BE SINGLE CONDUCTOR (#6 AWG OR LARGER), 600 V, OIL RESISTANT THHN OR THWN-2 GREEN INSULATION, CLASS B STRANDED COPPER CABLE RATED FOR 90 °C (WET AND DRY) OPERATION; LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED, UNLESS OTHERWISE SPECIFIED.
- SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED OUTDOORS, OR BELOW GRADE, SHALL BE SINGLE CONDUCTOR #2 AWG SOLID TINNED COPPER CABLE, UNLESS OTHERWISE SPECIFIED.
- POWER AND CONTROL WIRING, NOT IN TUBING OR CONDUIT, SHALL BE MULTI-CONDUCTOR, TYPE TC CABLE (#34 AWG OR LARGER), 600 V, OIL RESISTANT THHN OR THWN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90 °C (WET AND DRY) OPERATION; WITH OUTER JACKET; LISTED OR LABELED FOR THE LOCATION USED, UNLESS OTHERWISE SPECIFIED.
- ALL POWER AND GROUNDING CONNECTIONS SHALL BE CRIMP-STYLE, COMPRESSION WIRE LUGS AND WIRENUTS BY HARGER (OR EQUAL). LUGS AND WIRENUTS SHALL BE RATED FOR OPERATION AT NO LESS THAN 75°C (90°C IF AVAILABLE).
- RACEWAY AND CABLE TRAY SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANS/IEEE AND NEC.
- NEW RACEWAY OR CABLE TRAY WILL MATCH THE EXISTING INSTALLATION WHERE POSSIBLE.
- ELECTRICAL METALLIC TUBING (EMT) OR RIGID NONMETALLIC CONDUIT (I.E., RIGID PVC SCHEDULE 40 OR RIGID PVC SCHEDULE 80 FOR LOCATIONS SUBJECT TO PHYSICAL DAMAGE) SHALL BE USED FOR EXPOSED INDOOR LOCATIONS.
- ELECTRICAL METALLIC TUBING (EMT), ELECTRICAL NONMETALLIC TUBING (ENT), OR RIGID NONMETALLIC CONDUIT (RIGID PVC, SCHEDULE 40) SHALL BE USED FOR CONCEALED INDOOR LOCATIONS.
- GALVANIZED STEEL INTERMEDIATE METALLIC CONDUIT (IMC) SHALL BE USED FOR OUTDOOR LOCATIONS ABOVE GRADE.
- RIGID NONMETALLIC CONDUIT (I.E., RIGID PVC SCHEDULE 40 OR RIGID PVC SCHEDULE 80) SHALL BE USED UNDERGROUND; DIRECT BURIED, IN AREAS OF OCCASIONAL LIGHT VEHICLE TRAFFIC OR ENCASED IN REINFORCED CONCRETE IN AREAS OF HEAVY VEHICLE TRAFFIC.
- LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT (LIQUID-TITE FLEX) SHALL BE USED INDOORS AND OUTDOORS, WHERE VIBRATION OCCURS OR FLEXIBILITY IS NEEDED.
- CONDUIT AND TUBING FITTINGS SHALL BE THREADED OR COMPRESSION-TYPE AND APPROVED FOR THE LOCATION USED. SETSCREW FITTINGS ARE NOT ACCEPTABLE.
- CABINETS, BOXES AND WIREWAYS SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANS/IEEE AND NEC.
- CABINETS, BOXES AND WIREWAYS TO MATCH THE EXISTING INSTALLATION WHERE POSSIBLE.
- WIREWAYS SHALL BE EPOXY-COATED (GRAY) AND INCLUDE A HINGED COVER, DESIGNED TO SWING OPEN DOWNWARD; SHALL BE PANDUIT TYPE E (OR EQUAL); AND RATED NEMA 1 (OR BETTER) INDOORS, OR NEMA 3R (OR BETTER) OUTDOORS.
- EQUIPMENT CABINETS, TERMINAL BOXES, JUNCTION BOXES, AND PULL BOXES SHALL BE GALVANIZED OR EPOXY-COATED SHEET STEEL, SHALL MEET OR EXCEED UL 50, AND RATED NEMA 1 (OR BETTER) INDOORS, OR NEMA 3R (OR BETTER) OUTDOORS.
- METAL RECEPTACLE, SWITCH, AND DEVICE BOXES SHALL BE GALVANIZED, EPOXY-COATED, OR NON-CORRODING; SHALL MEET OR EXCEED UL 514A AND NEMA OS 1; AND RATED NEMA 1 (OR BETTER) INDOORS, OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.
- NONMETALLIC RECEPTACLE, SWITCH, AND DEVICE BOXES SHALL MEET OR EXCEED NEMA OS 2; AND RATED NEMA 1 (OR BETTER) INDOORS, OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.
- THE SUBCONTRACTOR SHALL NOTIFY AND OBTAIN NECESSARY AUTHORIZATION FROM THE CONTRACTOR BEFORE COMMENCING WORK ON THE AC POWER DISTRIBUTION PANELS.
- THE SUBCONTRACTOR SHALL PROVIDE NECESSARY TAGGING ON THE BREAKERS, CABLES AND DISTRIBUTION PANELS IN ACCORDANCE WITH THE APPLICABLE CODES AND STANDARDS TO SAFEGUARD AGAINST LIFE AND PROPERTY.
- ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, NEC AND ALL APPLICABLE LOCAL CODES.
- CONDUIT ROUTINGS ARE SCHEMATIC. SUBCONTRACTOR SHALL INSTALL CONDUITS SO THAT ACCESS TO EQUIPMENT IS NOT BLOCKED.

**T-MOBILE
NORTHEAST LLC**

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CHECKED BY: JMT

APPROVED BY: JMT

SUBMITTALS			
REV.	DATE	DESCRIPTION	BY
0	12/23/21	ISSUED FOR CONSTRUCTION	JRV

SITE NUMBER:
CT11525A

SITE ADDRESS:
398 POMFRET STREET
PROMFRET, CT 06258

SHEET TITLE

GENERAL NOTES

SHEET NUMBER

GN-1

SPECIAL CONSTRUCTION NOTE:
 GENERAL CONTRACTOR SHALL FURNISH AND INSTALL ALL ANTENNA MOUNT STRUCTURAL AUGMENTS (STRUCTURAL MODIFICATIONS) AT T-MOBILE'S RAD/VERTICAL EQUIPMENT SPACE PER RECOMMENDATIONS FROM SBA-PROVIDED ANTENNA MOUNT STRUCTURAL ANALYSIS AND ANY SUPPLEMENTAL CONSTRUCTION DRAWINGS (PROVIDED BY OTHERS).

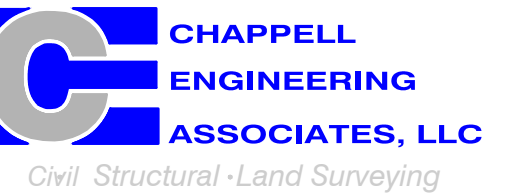
SPECIAL PRE-CONSTRUCTION WORK NOTE (SBA-PROVIDED TOWER STRUCTURAL ANALYSIS SPECIAL EQUIPMENT INSTALLATION REQUIREMENTS):
 GENERAL CONTRACTOR SHALL FURNISH AND INSTALL ALL SPECIAL OR SUPPLEMENTAL ADDITIONAL TOWER-MOUNTED EQUIPMENT PER RECOMMENDATIONS FROM SBA-PROVIDED TOWER STRUCTURAL ANALYSIS FOR ANY SPECIAL SHIELDING OF TOWER TOP EQUIPMENT AND FOR ANY SPECIAL FEEDLINE BUNDLING OR RELOCATION.

**T-MOBILE
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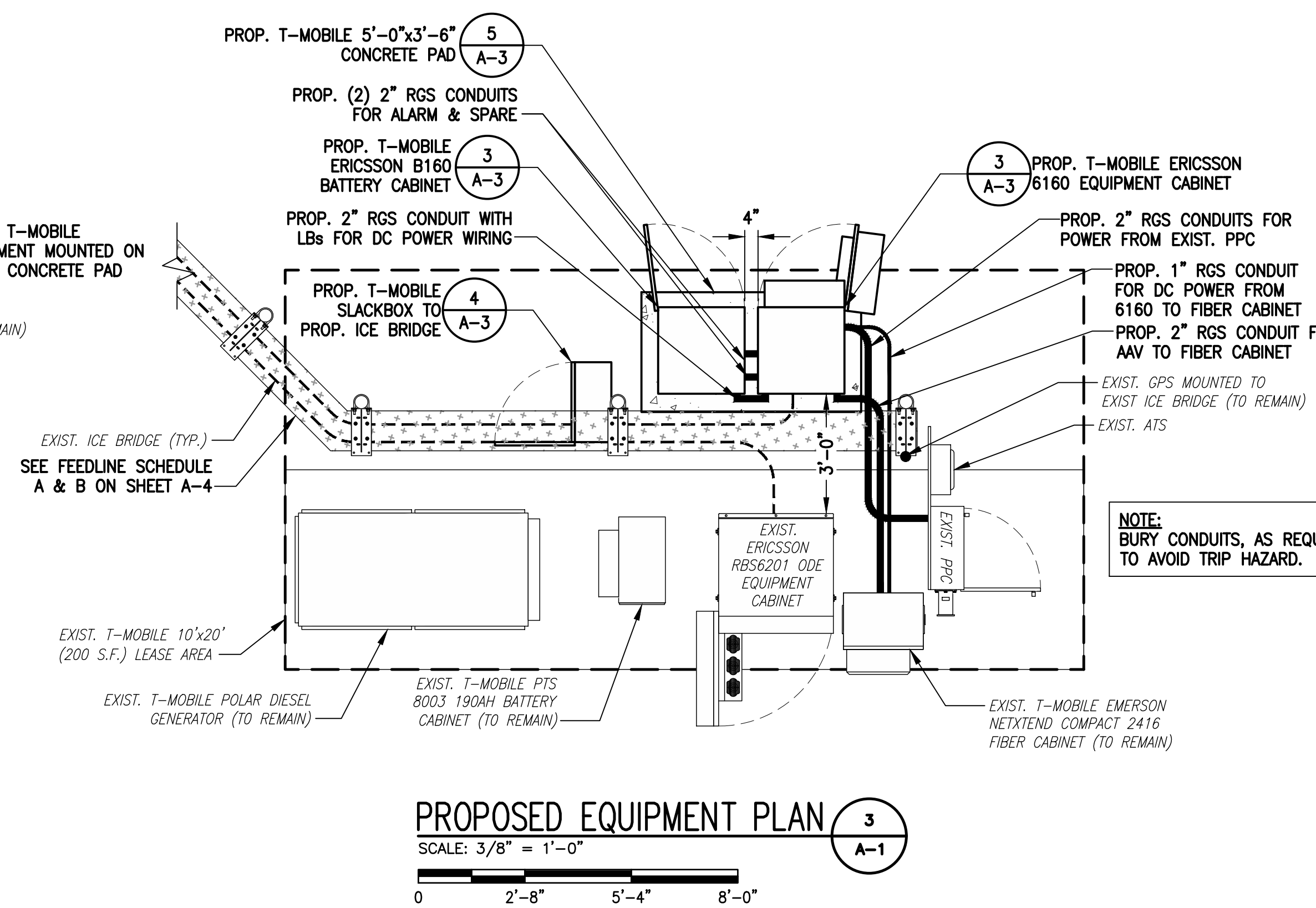
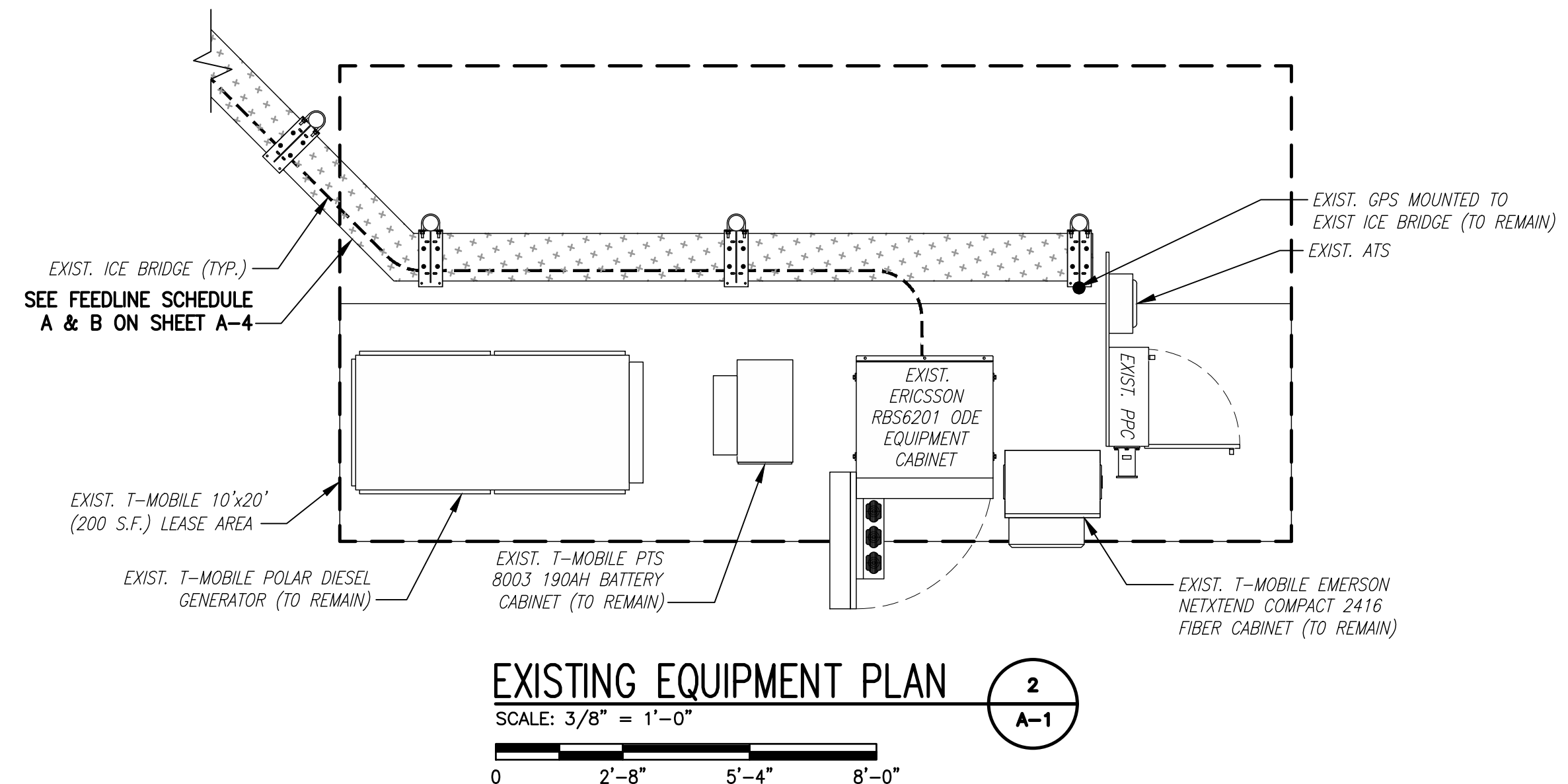
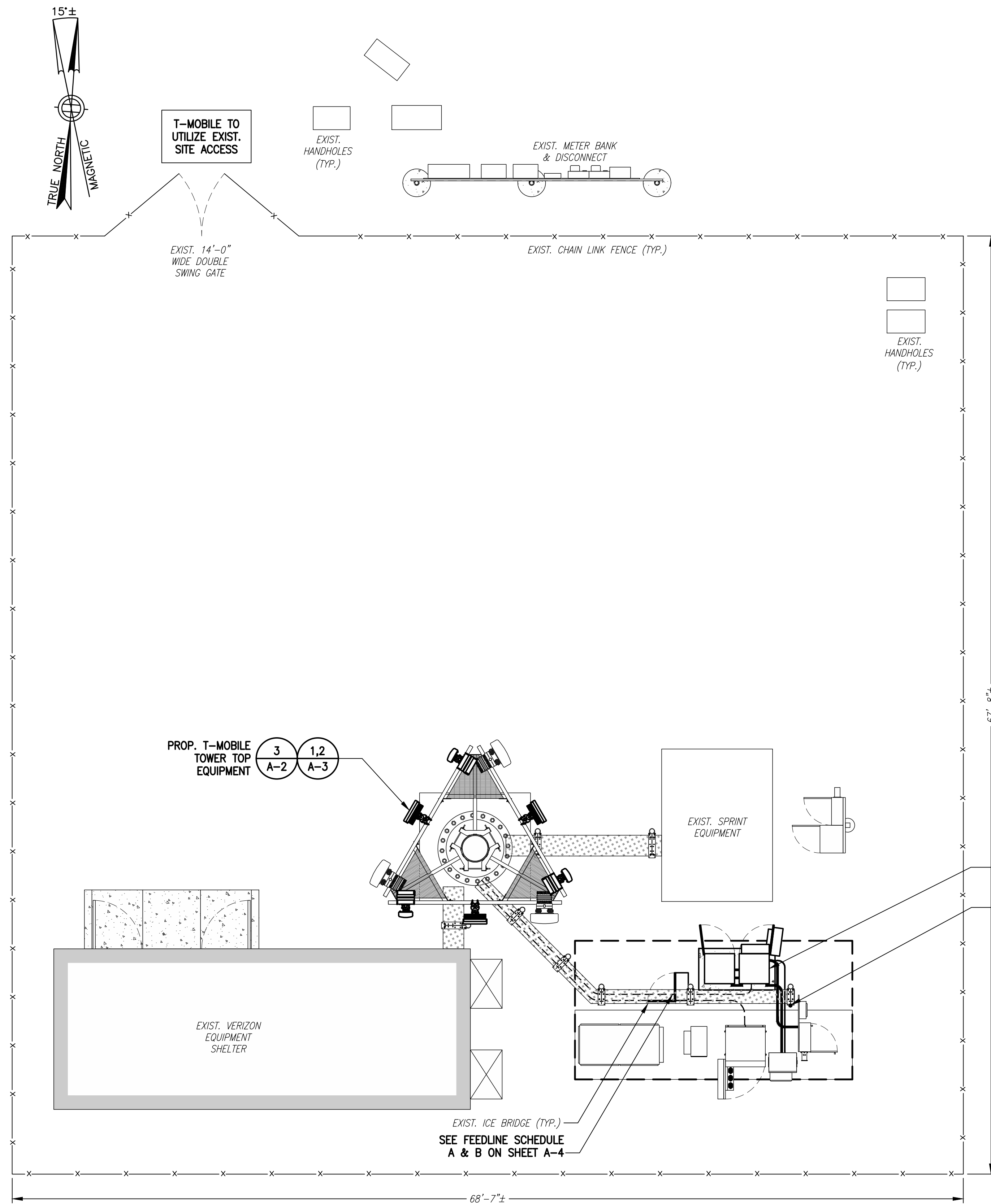
SITE NUMBER:
CT11525A

SITE ADDRESS:
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 PROMFRET, CT 06258

SHEET TITLE
**COMPOUND &
 EQUIPMENT PLANS**

SHEET NUMBER

A-1



NOTE:
 BURY CONDUITS, AS REQUIRED,
 TO AVOID TRIP HAZARD.

SPECIAL PRE-CONSTRUCTION WORK NOTE (SBA-PROVIDED TOWER STRUCTURAL ANALYSIS SPECIAL EQUIPMENT INSTALLATION REQUIREMENTS):
 GENERAL CONTRACTOR SHALL FURNISH AND INSTALL ALL SPECIAL OR SUPPLEMENTAL ADDITIONAL TOWER-MOUNTED EQUIPMENT PER RECOMMENDATIONS FROM SBA-PROVIDED TOWER STRUCTURAL ANALYSIS FOR ANY SPECIAL SHIELDING OF TOWER TOP EQUIPMENT AND FOR ANY SPECIAL FEEDLINE BUNDLING OR RELOCATION.

RAD CENTER NOTE:
 T-MOBILE RAD CENTER SHOWN IN RED TEXT BASED ON SBA-PROVIDED CO-LOCATION APPLICATION, EQUIPMENT DATABASE, AND STRUCTURAL ANALYSIS. THE SBA-PROVIDED ANTENNA RAD CENTER SHALL SUPERSEDE ANY CONFLICTING INFORMATION DERIVED FROM THE T-MOBILE RFDS.

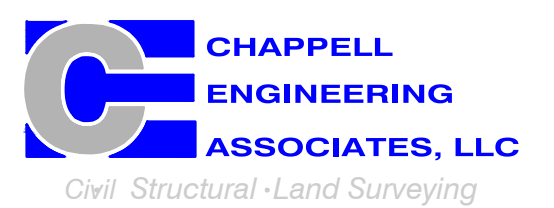
SPECIAL CONSTRUCTION NOTE:
 GENERAL CONTRACTOR SHALL FURNISH AND INSTALL ALL ANTENNA MOUNT STRUCTURAL AUGMENTS (STRUCTURAL MODIFICATIONS) AT T-MOBILE'S RAD/VERTICAL EQUIPMENT SPACE PER RECOMMENDATIONS FROM SBA-PROVIDED ANTENNA MOUNT STRUCTURAL ANALYSIS AND ANY SUPPLEMENTAL CONSTRUCTION DRAWINGS (PROVIDED BY OTHERS).

**T-MOBILE
 NORTHEAST LLC**

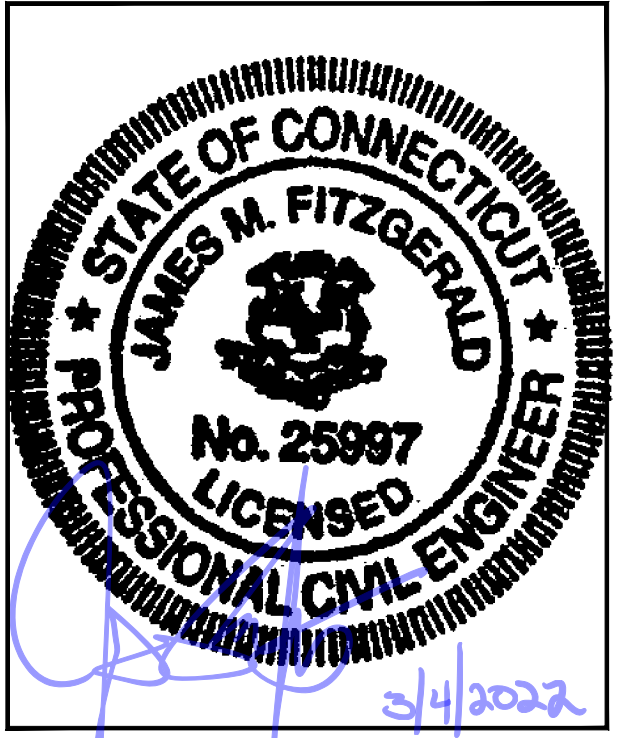
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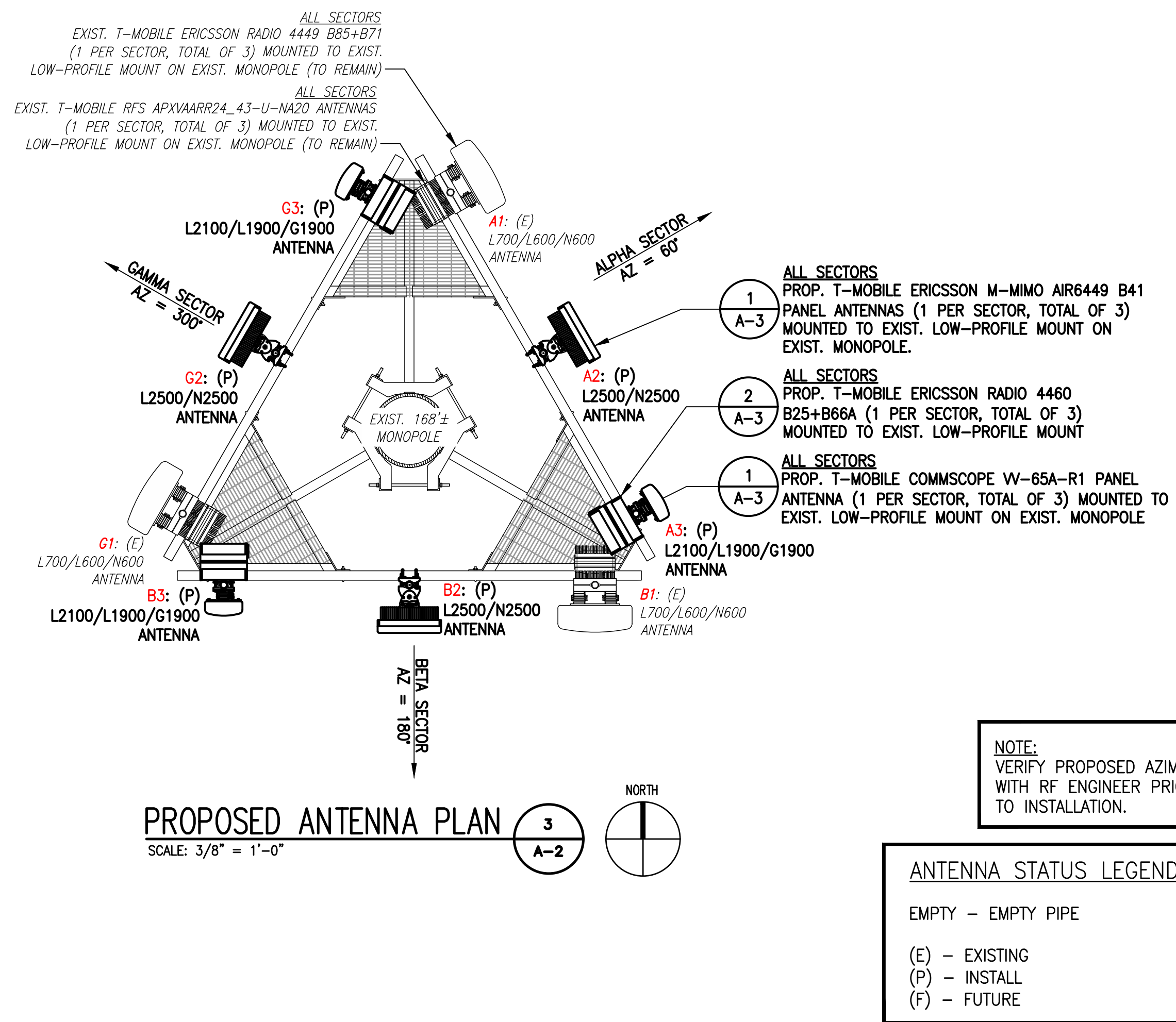
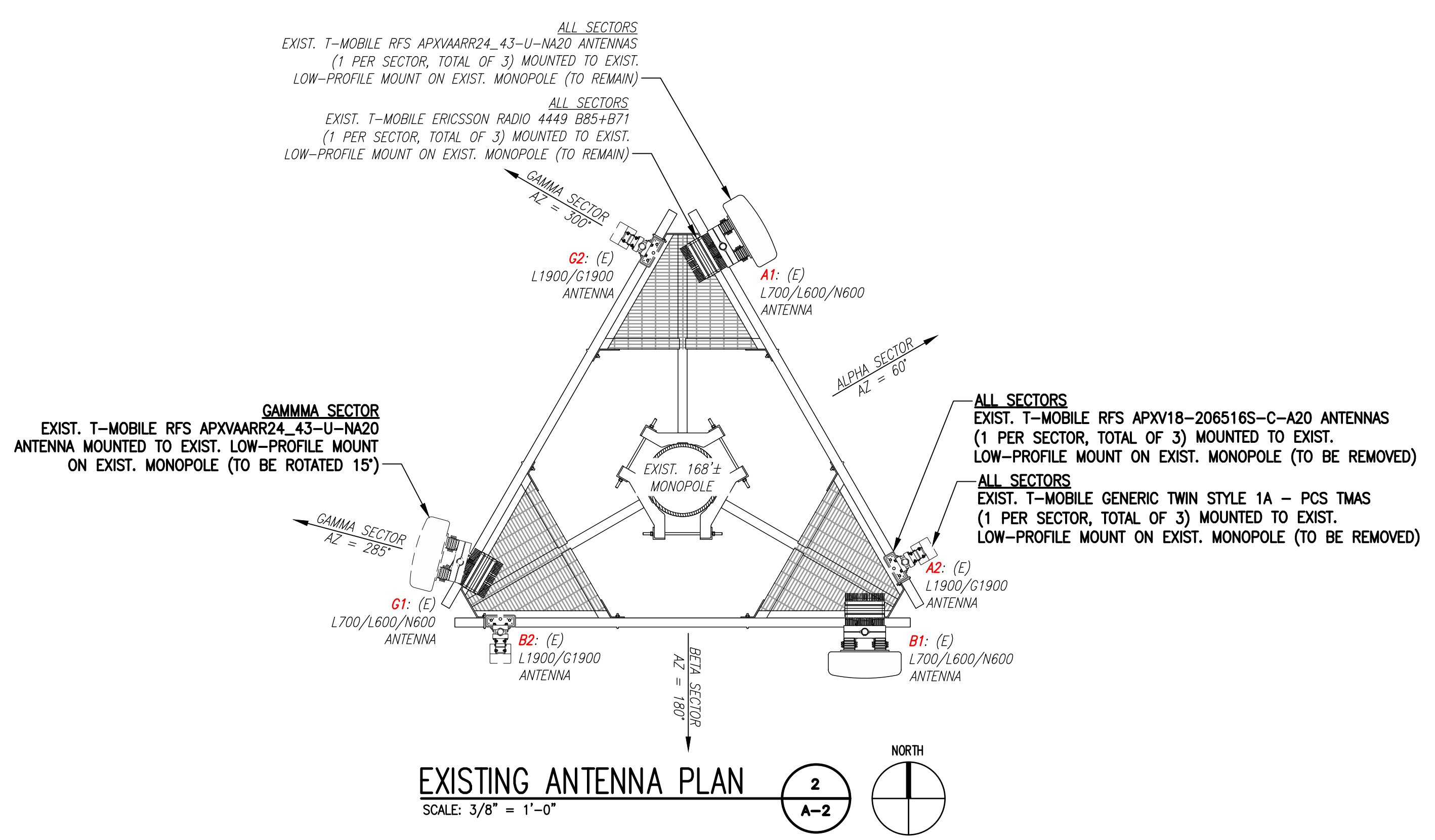
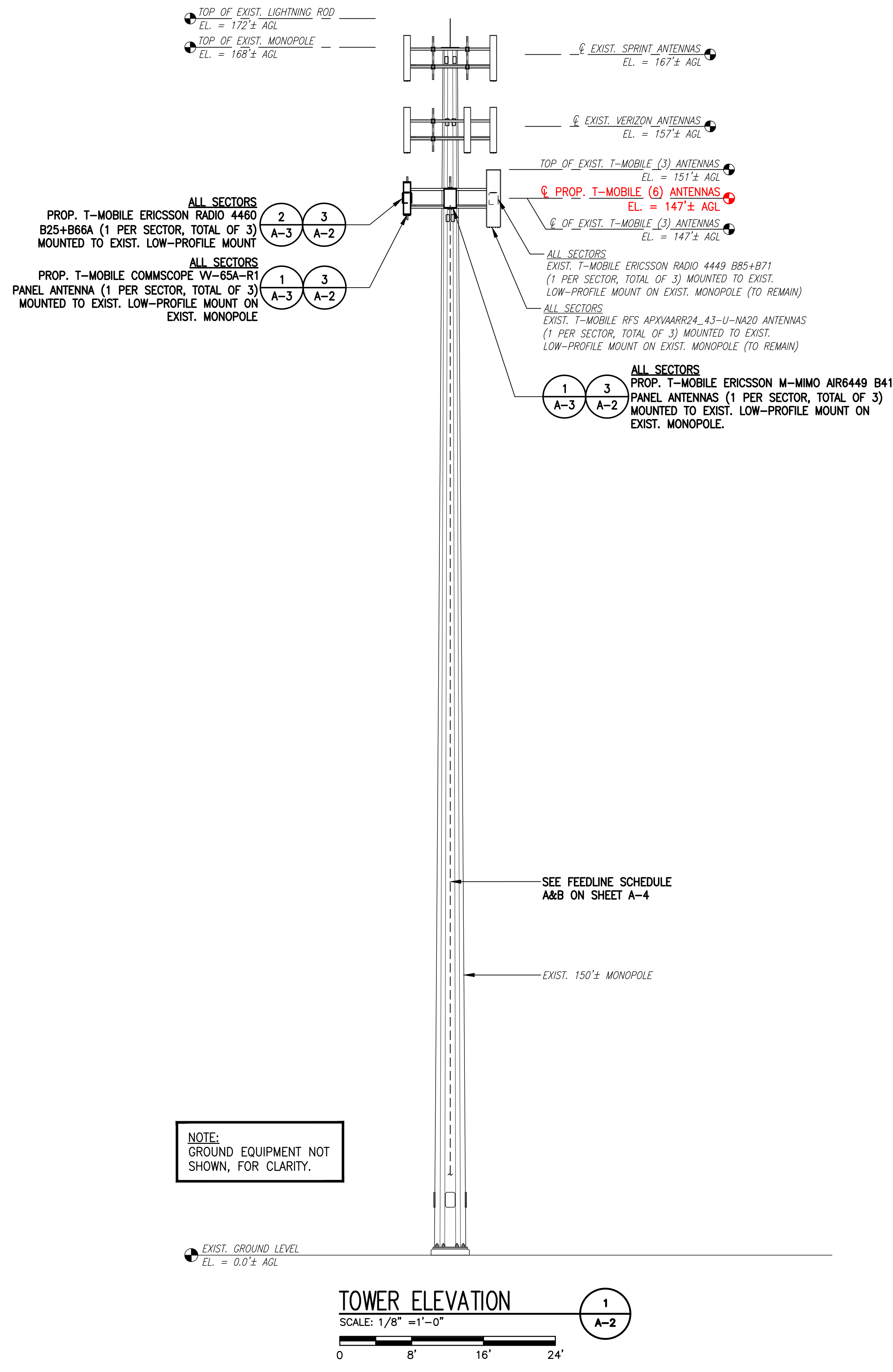
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SITE NUMBER:
CT11525A

SITE ADDRESS:
 398 POMFRET STREET
 PROMFRET, CT 06258

SHEET TITLE
**TOWER ELEVATIONS &
 ANTENNA PLANS**

SHEET NUMBER
A-2



NOTE:
 VERIFY PROPOSED AZIMUTHS WITH RF ENGINEER PRIOR TO INSTALLATION.

ANTENNA STATUS LEGEND:

EMPTY - EMPTY PIPE

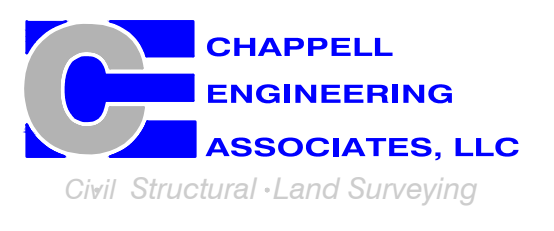
(E) - EXISTING
 (P) - INSTALL
 (F) - FUTURE

**T-MOBILE
NORTHEAST LLC**

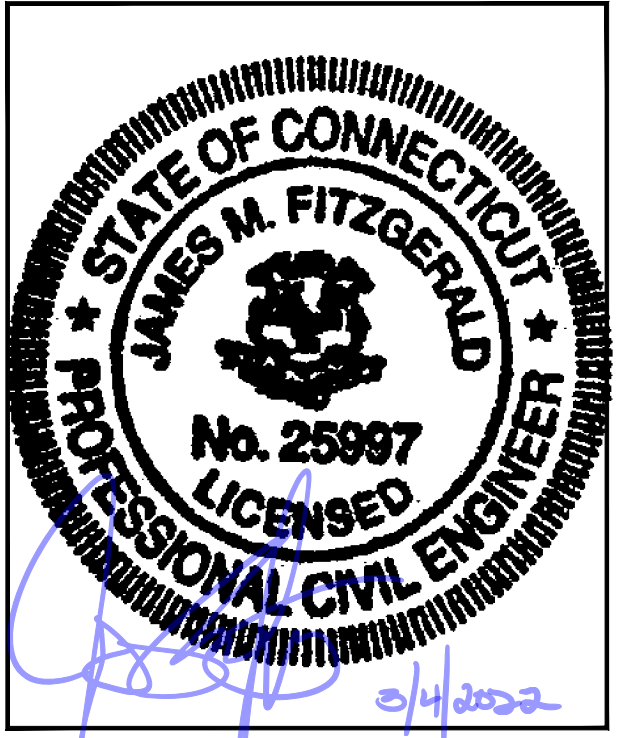
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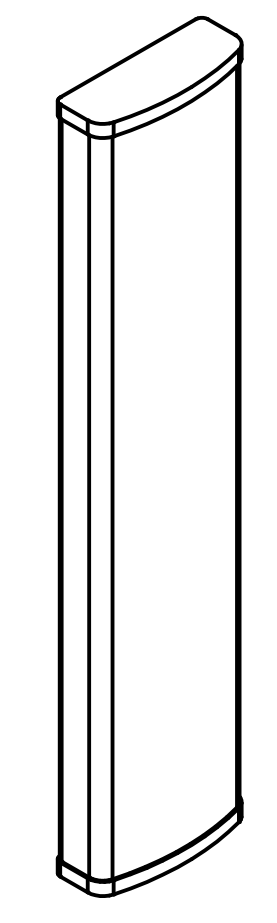
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0	12/23/21	ISSUED FOR CONSTRUCTION	JRV

SITE NUMBER:
CT11525A

SITE ADDRESS:
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PROMFRET, CT 06258

SHEET TITLE
SITE DETAILS

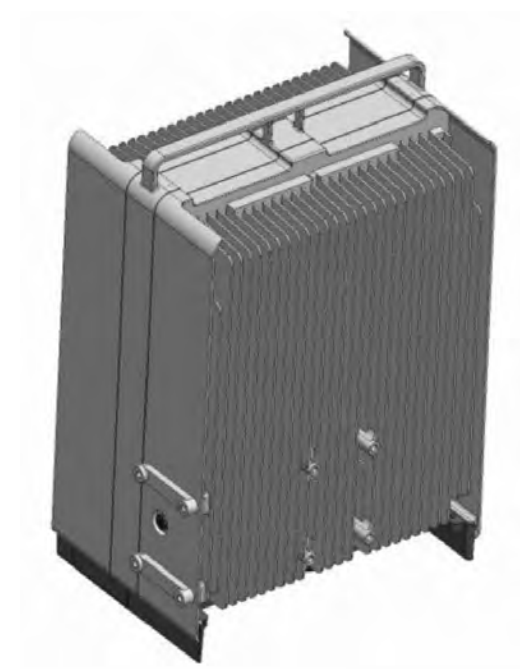
SHEET NUMBER
A-3



COMMSCOPE WV-65A-R1 ANTENNA
DIMENSIONS: 54.7"H x 12.1"W x 4.6"D
WEIGHT: 23.8 lbs
QUANTITY: 1 PER SECTOR, TOTAL OF 3



ERICSSON M-MIMO AIR6449 B41 ANTENNA
DIMENSIONS: 33.1"H x 20.5"W x 8.3"D
WEIGHT: 103.0 lbs
QUANTITY: 1 PER SECTOR, TOTAL OF 3



ERICSSON RADIO 4460 B25+B66
DIMENSIONS: 17.0"H x 15.1"W x 11.9"D
WEIGHT: 104.0 lbs
QUANTITY: 1 PER SECTOR, TOTAL OF 3

ANTENNA DETAILS
SCALE: N.T.S.

RADIO DETAILS
SCALE: N.T.S.

CONCRETE GENERAL NOTES

- ALL CONCRETE WORK SHALL CONFORM TO ACI 318, "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" AND TO THE PROJECT SPECIFICATIONS.
- ALL CONCRETE IS TO BE NORMAL DENSITY CONCRETE WITH A MAXIMUM SLUMP OF 4 INCHES. MAXIMUM AGGREGATE SIZE 3/4 INCH. NO ADDITIONAL WATER SHALL BE ADDED TO THE CONCRETE AT THE JOB SITE.
- PROVIDE AIR ENTRAINMENT OF 4 TO 6 PERCENT IN ALL EXPOSED CONCRETE WORK WITH AIR-ENTRAINING ADMIXTURE COMPLYING WITH ASTM C 260. AT TROWEL-FINISHED FLOORS, DO NOT EXCEED AIR-ENTRAINMENT CONTENT OF 3 PERCENT.
- NO HOLES OR SLEEVES SHALL BE MADE THROUGH CONCRETE WORK OTHER THAN THOSE INDICATED ON THE STRUCTURAL DRAWINGS WITHOUT THE APPROVAL OF THE STRUCTURAL ENGINEER.
- ALL FORMWORK OFFSET TOLERANCES (PER ACI 117) TO BE CLASS A.
- FLOOR SLAB TOLERANCES TO ASTM E1155; SPECIFIED OVERALL MINIMUM VALUE OF FLATNESS F F=25 WITH LOCAL MINIMUM F F=17, AND MINIMUM VALUE OF LEVELNESS F F=20 WITH LOCAL MINIMUM F F AND F F WITHIN 72 HOURS OF SLAB CONSTRUCTION.
- CABINETS ON SLAB (IF APPLICABLE). ALLOWABLE CAPACITY OF CONCRETE USED IN DESIGN MIN. 4000 PSI.

FOUNDATION NOTES:

- DESIGN INFORMATION AND GENERAL REQUIREMENTS**
 - 1.1 CODES**
 - DESIGN CONFORMS TO INTERNATIONAL BUILDING CODE 2012.
 - AMERICAN CONCRETE INSTITUTE "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE," ACI 318-08.
 - 2.1 FOUNDATIONS**
 - FOUNDATIONS HAVE BEEN DESIGNED TO BEAR ON (UNDISTURBED RESIDUAL SOILS/COMPACTED STRUCTURAL FILL), CAPABLE OF SAFELY SUPPORTING A NET ALLOWABLE BEARING PRESSURE OF 2000 PSF. IF FOUNDATION CONDITIONS PROVE UNACCEPTABLE AT ELEVATIONS SHOWN, EXCAVATION SHALL BE CARRIED DEEPER AND SHALL BE BACKFILLED WITH LEAN CONCRETE TO PLAN FOOTING BOTTOM, OR REDESIGN OF FOUNDATIONS WILL BE REQUIRED AT THE DIRECTION OF THE ENGINEER.
 - DESIGN, FURNISH AND INSTALL ALL TEMPORARY SHEETING, SHORING AND DRAINAGE NECESSARY TO MAINTAIN THE EXCAVATION AND PROTECT SURROUNDING STRUCTURES AND UTILITIES.
 - THOROUGHLY COMPACT ALL BOTTOM OF FOOTINGS PRIOR TO PLACING ANY CONCRETE.
- CONCRETE**

3.1 FORMWORK

- CONCRETE CONSTRUCTION SHALL CONFORM TO "SPECIFICATIONS FOR STRUCTURAL, CONCRETE FOR BUILDINGS," (ACI 301-89).
- FORMWORK SHALL CONFORM TO ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS."

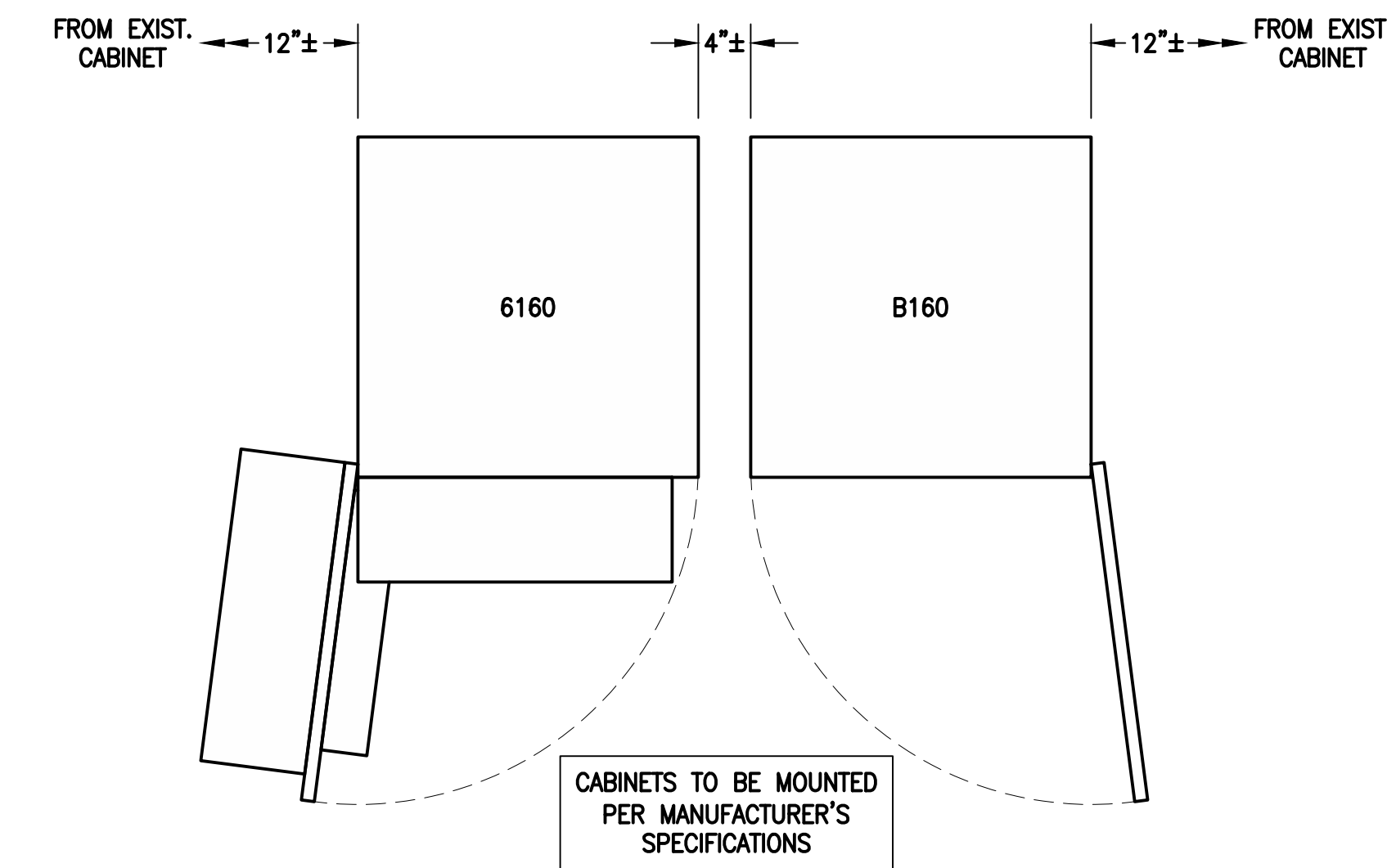
3.2 REINFORCEMENT

- REINFORCING STEEL ASTM A615, GRADE 60. WELDED WIRE ASTM A185 (FLAT SHEET). LAPS 40 BAR DIAMETERS UNLESS NOTED. BARS SHALL BE SECURELY HELD IN ACCURATE POSITION BY SUITABLE ACCESSORIES, TIE BARS, SUPPORT BARS, ETC. HOOK LENGTHS SHALL BE 12 BAR DIAMETERS.
- CONCRETE COVER FOR REINFORCING BARS SHALL BE AS FOLLOWS, UNLESS OTHERWISE NOTED:
FOOTINGS & SLABS CAST AGAINST GROUND 3"
CONCRETE TO BE IN CONTACT WITH GROUND OR WEATHER AT BARS GREATER THAN #5 2"
AT BARS #5 OR LESS 1-1/2"
CONCRETE NOT TO BE EXPOSED TO GROUND OR WEATHER BEAMS, GIRDERS & COLUMNS 1-1/2"
SLABS & WALLS 3/4"

3.3 CAST-IN-PLACE-CONCRETE

- MINIMUM 28 DAY CYLINDER STRENGTH AND MAXIMUM SLUMP, PRIOR TO ADDITION OF SUPER PLASTICIZERS, AS FOLLOWS:

	F'c (PSI)	SLUMP
CLASS I FOOTINGS	4000	3"
CLASS II FOOTINGS	4000	3"
CLASS III INTERIOR ELEVATED SLABS & WALLS	4000	4"
CLASS V OTHER WORK	4000	4"
CLASS VI LEAN CONCRETE FOR OVER EXCAVATION OF FOUNDATIONS	2000	N/A
- MIX DESIGN TO BE IN ACCORDANCE WITH ACI 318, CHAPTER 5. NO CALCIUM CHLORIDE OR ADMIXTURE CONTAINING CHLORIDES SHALL BE USED IN ANY CONCRETE.
- COARSE AGGREGATE FOR NORMAL WEIGHT CONCRETE SHALL CONFORM TO ASTM C33 SIZE #57. COARSE AGGREGATE FOR LIGHT WEIGHT CONCRETE SHALL CONFORM TO ASTM C330 GRADED 3/4" TO 1/4".
- COLD WEATHER PLACEMENT SHALL COMPLY WITH ACI 306.1.
- HOT WEATHER PLACEMENT SHALL COMPLY WITH ACI 305 R.
- CHAMFER ALL EXPOSED EDGES 3/4".
- THE MAXIMUM TEMPERATURE OF ALL CONCRETE AT DELIVERY TO THE SITE SHALL BE 85F. TOTAL DELIVERY TIME SHALL BE LESS THAN 75 MINUTES.



ERICSSON 6160 SITE SUPPORT CABINET
DIMENSIONS: 63.25"H x 26.0"W x 34.0"D
WEIGHT: 680.0 lbs
QUANTITY: TOTAL OF 1

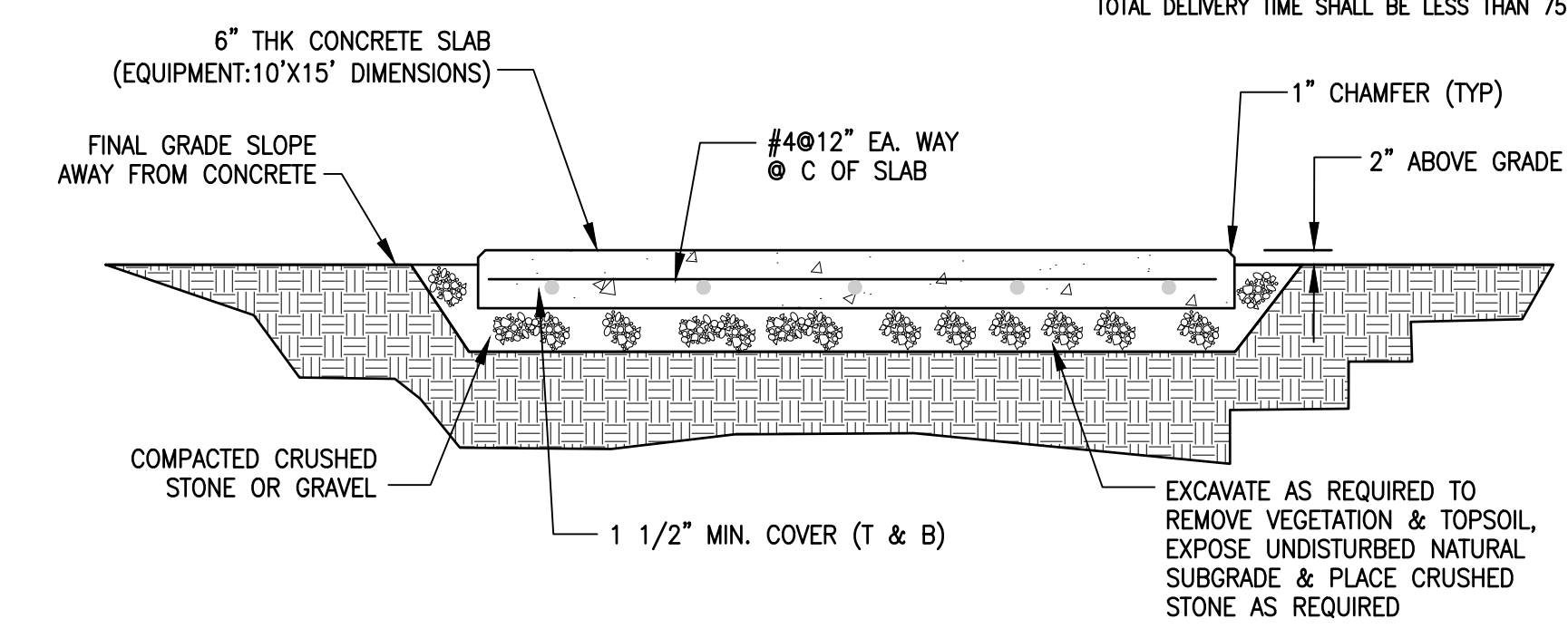
ERICSSON B160 BATTERY CABINET
DIMENSIONS: 63.25"H x 26.0"W x 26.0"D
WEIGHT: 1771.0 lbs
QUANTITY: TOTAL OF 1

EQUIPMENT DETAIL
SCALE: N.T.S.



SLACKBOX - HOFFMAN 32FH91 NEMA 3R ENCLOSURE
DIMENSIONS: 24.0"H x 24.0"W x 12.0"D
QUANTITY: TOTAL OF 1

SSC DETAILS
SCALE: N.T.S.



CONCRETE PAD DETAIL
SCALE: N.T.S.

FINAL ANTENNA CONFIGURATION								
SECTOR	ANTENNA	RAD CENTER	AZIMUTH (TRUE NORTH)	MECHANICAL DOWNTILT	ELECTRICAL DOWNTILT	BAND	TMA/RADIOS	SIGNAL CABLES
ALPHA	A1 <small>RFS APXVAARR24_43-U-NA20</small>	147'± AGL	60°	0°	2°	L700/L600/N600	RADIO 4449 B71+BB5	(3) 1- ⁵ / ₈ " (6x12) HCS FIBER CABLE (1) 2" (6x24) HCS FIBER CABLES
	A2 ERICSSON M-MIMO AIR6449 B41	147'± AGL	60°	0°	2°	L2500/N2500	-	
	A3 COMMSCOPE W-65A-R1	147'± AGL	60°	0°	2°	L2100/L1900/G1900	RADIO 4460 B25+B66	
BETA	B1 <small>RFS APXVAARR24_43-U-NA20</small>	147'± AGL	180°	0°	2°	L700/L600/N600	RADIO 4449 B71+BB5	
	B2 ERICSSON M-MIMO AIR6449 B41	147'± AGL	180°	0°	2°	L2500/N2500	-	
	B3 COMMSCOPE W-65A-R1	147'± AGL	180°	0°	2°	L2100/L1900/G1900	RADIO 4460 B25+B66	
GAMMA	G1 <small>RFS APXVAARR24_43-U-NA20</small>	147'± AGL	300°	0°	2°	L700/L600/N600	RADIO 4449 B71+BB5	
	G2 ERICSSON M-MIMO AIR6449 B41	147'± AGL	300°	0°	2°	L2500/N2500	-	
	G3 COMMSCOPE W-65A-R1	147'± AGL	300°	0°	2°	L2100/L1900/G1900	RADIO 4460 B25+B66	

CABLE NOTE: ALL EXISTING 1-⁵/₈" COAX CABLES TO BE REMOVED. SEE FEEDLINE SCHEDULE A & B BELOW.

NOTE: RFDS REV4 - 11/12/21

FEEDLINE SCHEDULE		
SCHEDULE	FEEDLINES	LOCATION
A	EXISTING TO REMAIN: (1) 1/2" COAX CABLE FOR GPS ANTENNA (3) 1- ⁵ / ₈ " (6x12) HCS FIBER CABLE EXISTING TO BE REMOVED: ALL 1- ⁵ / ₈ " COAX CABLES	ROUTED PER STRUCTURAL ANALYSIS
B	PROPOSED: (1) 2" (6x24) HCS FIBER CABLES	

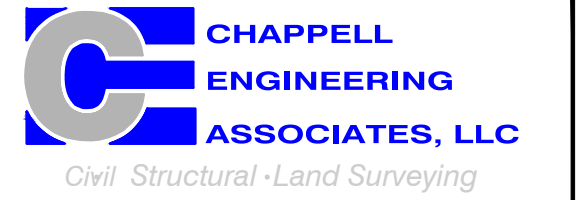
NOTE: EXISTING T-MOBILE EQUIPMENT FEEDLINE INVENTORY BASED ON OBSERVED FIELD CONDITIONS. RFDS AND FEEDLINE LEASING ENTITLEMENTS MAY DIFFER.

T-MOBILE NORTHEAST LLC

15 COMMERCE WAY, SUITE B
NORTON, MA 02766
(508) 286-2700



SBA COMMUNICATIONS CORP.
134 FLANDERS ROAD, SUITE 125
WESTBOROUGH, MA 01581
(508) 251-0720



R.K. EXECUTIVE CENTRE
201 BOSTON POST ROAD WEST, SUITE 101
MARLBOROUGH, MA 01752
(508) 481-7400
www.chappellengineering.com



CHECKED BY: JMT

APPROVED BY: JMT

SUBMITTALS			
REV.	DATE	DESCRIPTION	BY
0	12/23/21	ISSUED FOR CONSTRUCTION	JRV

SITE NUMBER:
CT11525A

SITE ADDRESS:
398 POMFRET STREET
PROMFRET, CT 06258

SHEET TITLE
**ANTENNA &
FEEDLINE CHARTS**

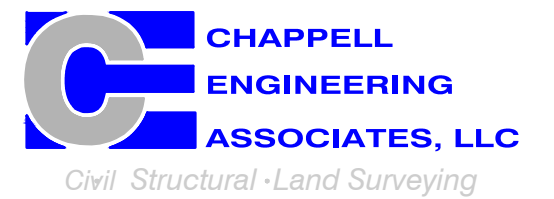
SHEET NUMBER
A-4

**T-MOBILE
NORTHEAST LLC**

15 COMMERCE WAY, SUITE B
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CHECKED BY: JMT

APPROVED BY: JMT

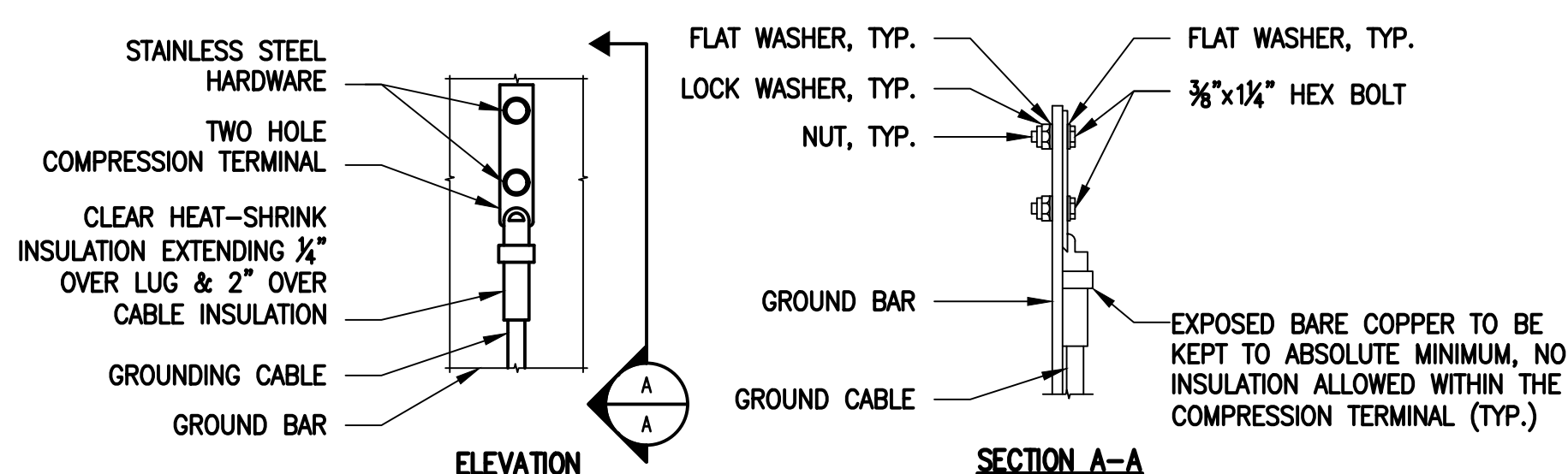
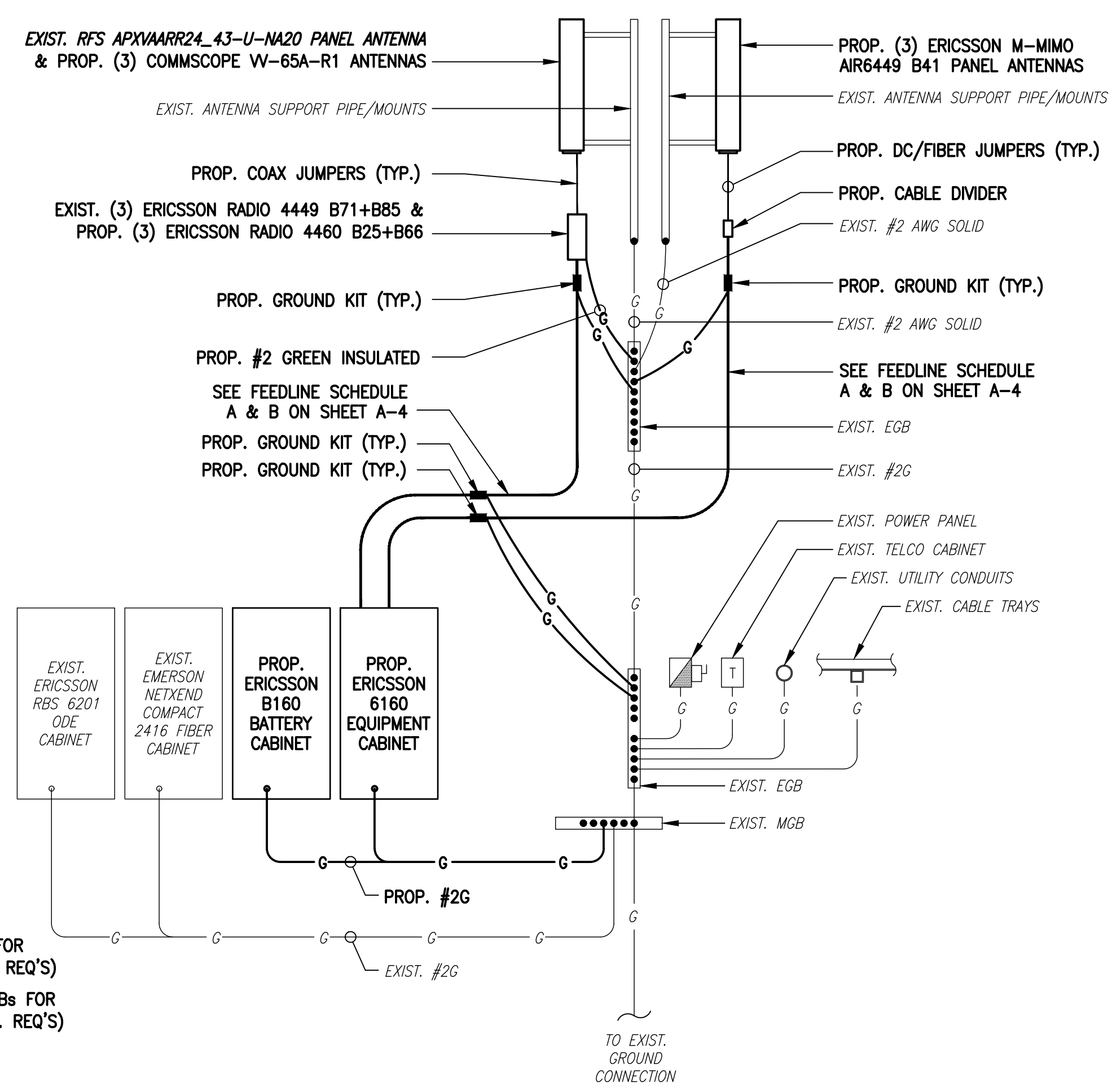
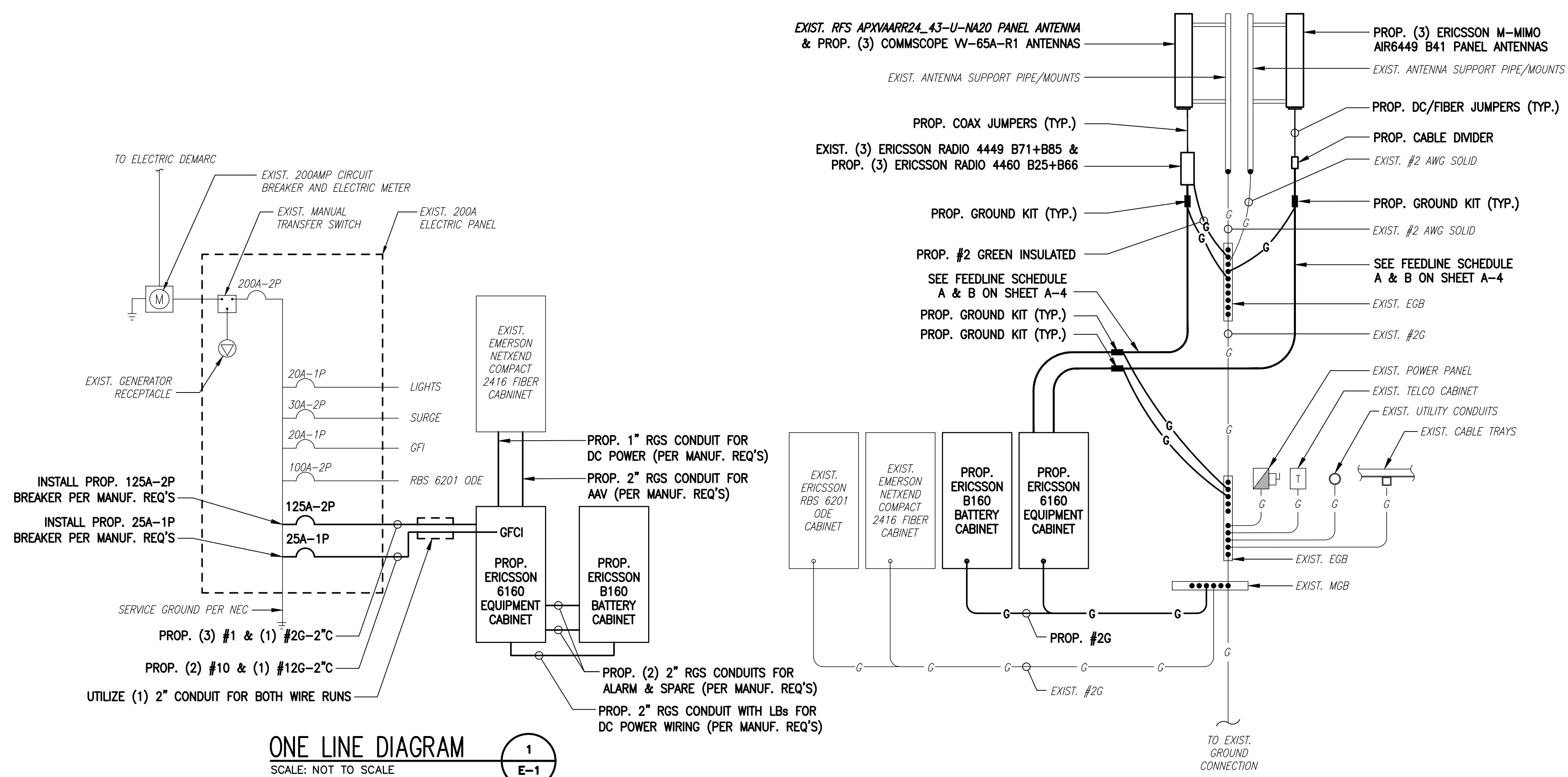
SUBMITTALS			
REV.	DATE	DESCRIPTION	BY
0	12/23/21	ISSUED FOR CONSTRUCTION	JRV

SITE NUMBER:
CT11525A

SITE ADDRESS:
398 POMFRET STREET
PROMFRET, CT 06258

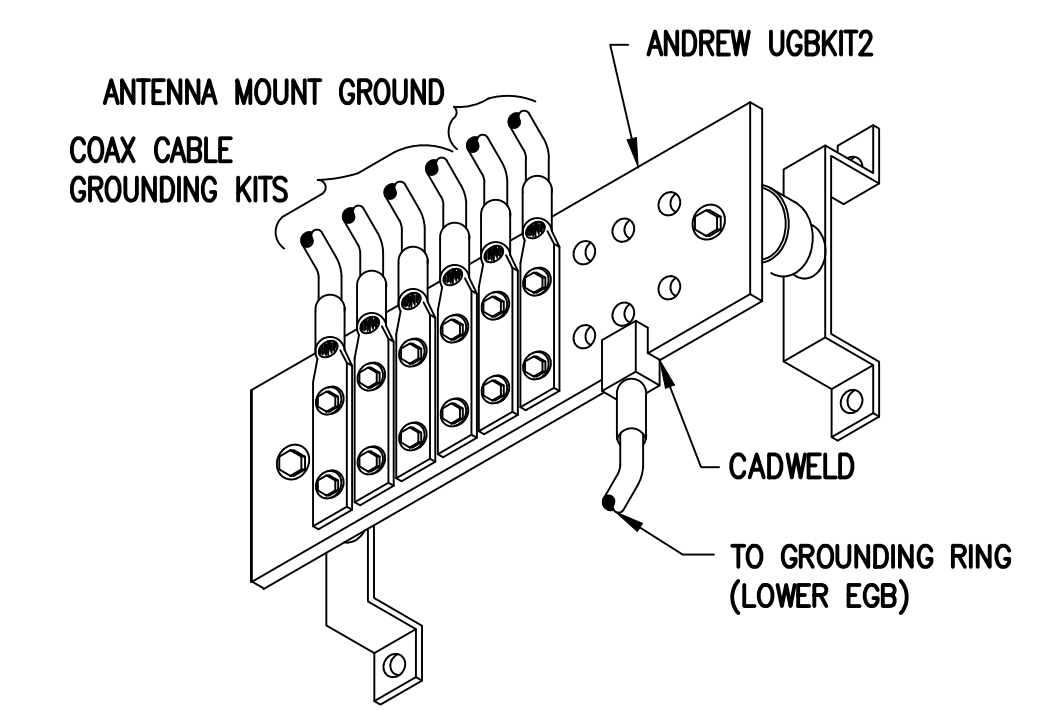
SHEET TITLE
**ELECTRIC & GROUNDING
DETAILS**

SHEET NUMBER
E-1



- NOTES:
- "DOUBLING UP" OR "STACKING" OF CONNECTION IS NOT PERMITTED.
 - OXIDE INHIBITING COMPOUND TO BE USED AT ALL LOCATIONS.
 - CADWELD DOWNLEADS FROM UPPER EGB, LOWER EGB AND MGB.

TYPICAL GROUND BAR CONNECTIONS DETAIL
SCALE: NOT TO SCALE



ELECTRICAL AND GROUNDING NOTES

- ALL ELECTRICAL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE (NEC) AS WELL AS APPLICABLE STATE AND LOCAL CODES.
- ALL ELECTRICAL ITEMS SHALL BE U.L. APPROVED OR LISTED AND PROCURED PER SPECIFICATION REQUIREMENTS.
- THE ELECTRICAL WORK INCLUDES ALL LABOR AND MATERIAL DESCRIBED BY DRAWINGS AND SPECIFICATION INCLUDING INCIDENTAL WORK TO PROVIDE COMPLETE OPERATING AND APPROVED ELECTRICAL SYSTEM.
- GENERAL CONTRACTOR SHALL PAY FEES FOR PERMITS, AND IS RESPONSIBLE FOR OBTAINING SAID PERMITS AND COORDINATION OF INSPECTIONS.
- ELECTRICAL AND TELCO WIRING OUTSIDE A BUILDING AND EXPOSED TO WEATHER SHALL BE IN WATER TIGHT GALVANIZED RIGID STEEL CONDUITS OR SCHEDULE 80 PVC (AS PERMITTED BY CODE) AND WHERE REQUIRED IN LIQUID TIGHT FLEXIBLE METAL OR NONMETALLIC CONDUITS.
- BURIED CONDUIT SHALL BE SCHEDULE 40 PVC.
- ELECTRICAL WIRING SHALL BE COPPER WITH TYPE XHHW, THWN, OR THININSULATION.
- RUN ELECTRICAL CONDUIT OR CABLE BETWEEN ELECTRICAL UTILITY DEMARCATION POINT AND PROJECT OWNER CELL SITE PPC AS INDICATED ON THIS DRAWING. PROVIDE FULL LENGTH PULL ROPE. COORDINATE INSTALLATION WITH UTILITY COMPANY.
- RUN TELCO CONDUIT OR CABLE BETWEEN TELEPHONE UTILITY DEMARCATION POINT AND PROJECT OWNER CELL SITE TELCO CABINET AND BTS CABINET AS INDICATED ON THIS DRAWING PROVIDE FULL LENGTH PULL ROPE IN INSTALLED TELCO CONDUIT. PROVIDE GREENLEE CONDUIT MEASURING TAPE AT EACH END.
- WHERE CONDUIT BETWEEN BTS AND PROJECT OWNER CELL SITE PPC AND BETWEEN BTS AND PROJECT OWNER CELL SITE TELCO SERVICE CABINET ARE UNDERGROUND USE PVC, SCHEDULE 40 CONDUIT. ABOVE THE GROUND PORTION OF THESE CONDUITS SHALL BE PVC CONDUIT.
- ALL EQUIPMENT LOCATED OUTSIDE SHALL HAVE NEMA 3R ENCLOSURE.
- PPC SUPPLIED BY PROJECT OWNER.
- GROUNDING SHALL COMPLY WITH NEC ART. 250. ADDITIONALLY, GROUNDING, BONDING AND LIGHTNING PROTECTION SHALL BE DONE IN ACCORDANCE WITH "T-MOBILE BTS SITE GROUNDING STANDARDS".
- GROUND COAXIAL CABLE SHIELDS MINIMUM AT BOTH ENDS USING MANUFACTURERS COAX CABLE GROUNDING KITS SUPPLIED BY PROJECT OWNER.
- USE #6 COPPER STRANDED WIRE WITH GREEN COLOR INSULATION FOR ABOVE GRADE GROUNDING (UNLESS OTHERWISE SPECIFIED) AND #2 SOLID TINNED BARE COPPER WIRE FOR BELOW GRADE GROUNDING AS INDICATED ON THE DRAWINGS.
- ALL GROUND CONNECTIONS TO BE BURNDY HYGROUND COMPRESSION TYPE CONNECTORS OR CADWELD EXOTHERMIC WELD. DO NOT ALLOW BARE COPPER WIRE TO BE IN CONTACT WITH GALVANIZED STEEL.
- ROUTE GROUNDING CONDUCTORS ALONG THE SHORTEST AND STRAIGHTEST PATH POSSIBLE, EXCEPT AS OTHERWISE INDICATED. GROUNDING LEADS SHOULD NEVER BE BENT AT RIGHT ANGLE. ALWAYS MAKE AT LEAST 12" RADIUS BENDS. #6 WIRE CAN BE BENT AT 6" RADIUS WHEN NECESSARY. BOND ANY METAL OBJECTS WITHIN 6 FEET OF PROJECT OWNER EQUIPMENT OR CABINET TO MASTER GROUND BAR OR GROUNDING RING.
- CONNECTIONS TO GROUND BARS SHALL BE MADE WITH TWO HOLE COMPRESSION TYPE COPPER LUGS. APPLY OXIDE INHIBITING COMPOUND TO ALL LOCATIONS.
- APPLY OXIDE INHIBITING COMPOUND TO ALL COMPRESSION TYPE GROUND CONNECTIONS.
- CONTRACTOR SHALL PROVIDE AND INSTALL OMNI DIRECTIONAL ELECTRONIC MARKER SYSTEM (EMS) BALLS OVER EACH GROUND ROD AND BONDING POINT BETWEEN EXIST. TOWER/ MONOPOLE GROUNDING RING AND EQUIPMENT GROUNDING RING.
- CONTRACTOR SHALL TEST COMPLETED GROUND SYSTEM AND RECORD RESULTS FOR PROJECT CLOSE-OUT DOCUMENTATION. 5 OHMS MINIMUM RESISTANCE REQUIRED.
- CONTRACTOR SHALL CONDUCT ANTENNA, COAX, AND LNA RETURN-LOSS AND DISTANCE- TO-FAULT MEASUREMENTS (SWEEP TESTS) AND RECORD RESULTS FOR PROJECT CLOSE-OUT.

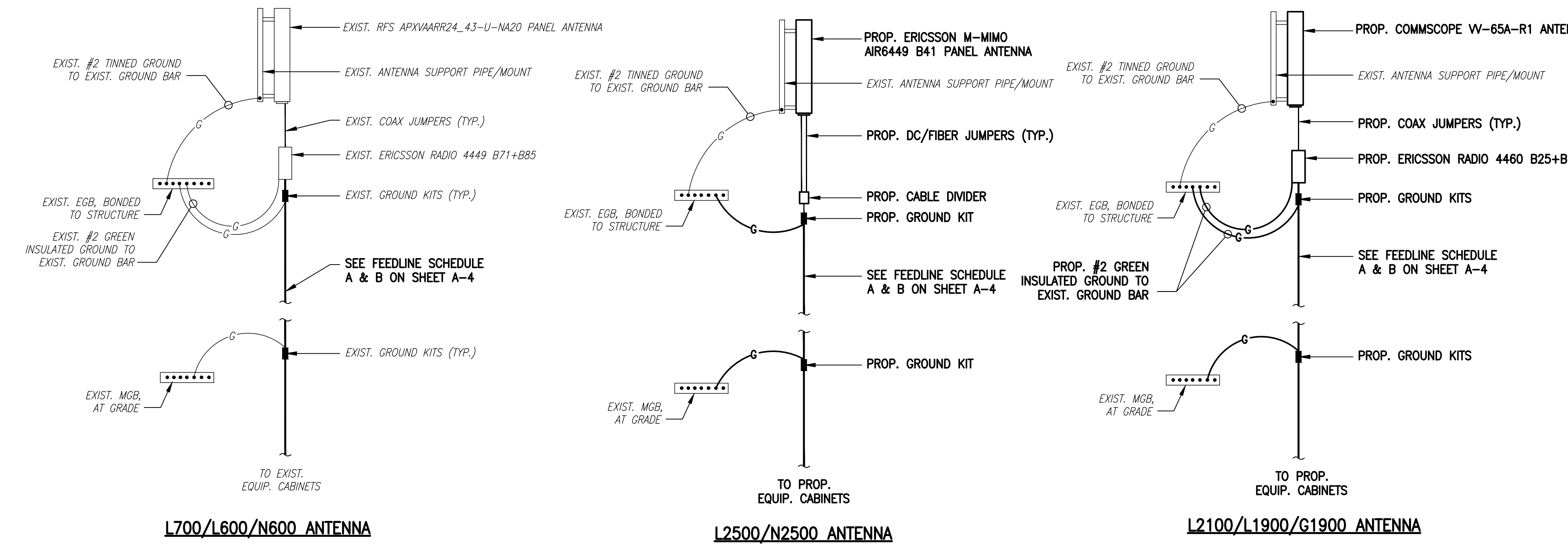


EXHIBIT 7

Structural Analysis



Tower Engineering Solutions

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

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 (App#: 183633-1)

Carrier Site ID / Name: CT11525A / Pomfret School

Site Location: 398 Pomfret Street

Pomfret, Connecticut

Windham County

Latitude: 41.890094

Longitude: -71.955008

Exp. 01/31/2024



Analysis Result:

Max Structural Usage: 83.1% [Pass]

Max Foundation Usage: 72.0% [Pass]

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

01/14/2022

Report Prepared By: Bishal Pandit

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 FDH Engineering, Inc. Dated 11-14-2014. Project No 146GSJ1400.
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
Mount Analysis	TES, Project# 121465, Dated: 01/06/2022

Analysis Criteria

The rigorous analysis was performed in accordance with the requirements and stipulations of the TIA-222-G-2. 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:	Ultimate Design Wind Speed $V_{ult} = 130$ 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:	TIA-222-G-2 / 2015 IBC / 2018 Connecticut State Building Code
Exposure Category:	C
Structure Class:	II
Topographic Category:	1
Crest Height:	0 ft
Seismic Parameters:	$S_5 = 0.172$, $S_1 = 0.063$

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	3	RFS APXVTM14-C-I20 - Panel	Low Profile Platform w/ Reinforcement Kit (Site Pro PRK-1245L), V-Brace Kit (Site Pro PRK-SFS-H-L), (3) Pipe2.0STD x 15' Horizontal Rail, (3) Pipe2.0STD x 4' Long Corner Braces, & (6) Pipe2.0STD Mount Pipes	(4) 1-1/4" Fiber	Sprint Nextel
2		3	Commscope NNVV-65B-R4 - Panel			
3		3	ALU 1900 Mhz RRU's			
4		6	ALU 800 Mhz RRU's			
5		3	ALU TD-RRH8x20-25 RRU's			
6	157.0	3	Commscope LNX6514DS-AIM - Panel	Platform w/ Handrails w/ (3) Mount Equipment (JMA 91900314-02) + Modifications	(6) 1 5/8" Coax. (2) 1 5/8" Hybrid	Verizon
7		6	JMA Wireless MX06FRO660-03 - Panel			
8		3	Samsung MT6407-77A - Panel			
9		3	Samsung B2/B66A RRU's			
10		3	Samsung B5/B13 RRU's			
11		1	Raycap RVZDC-6627-PF-48 DC Surge			
-	147.0	3	RFS APXV18-206516S-C-A20 - Panel	Low Profile Platform w/ Reinforcement Kit (Site Pro PRK-1245)	(9) 1 5/8" Coax. (3) 1 5/8" Fiber	T-Mobile
-		3	RFS APXVAARR24_43-U-NA20 - Panel			
-		3	Ericsson KRY 112 489/2 TMA's			
-		3	Allen Telecom FE15501P77/75 TMA's			
-		3	Ericsson Radio 4449 B71+B12 RRU's			
-		3	Kathrein 782 11056 Bias Ts			
20	120.0	3	JMA Wireless MX08FRO665-21 - Panel	Platform w/HRK (Commscope MC-PK8-C)	(1) 1.6" Hybrid	Dish Wireless
21		3	Fujitsu TA08025-B605 RRU's			
22		3	Fujitsu TA08025-B604 RRU's			
23		1	Raycap RDIDC-9181-PF-48 OVP			

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
12	147.0	3	Ericsson - AIR6449 B41 - Panel	Low Profile Platform w/ Reinforcement Kit (Site Pro PRK-1245)	(7) 1 5/8" Coax. (3) 1 5/8" Fiber (1) 1.9" Fiber	T-Mobile
13		3	RFS APXVAARR24_43-U-NA20 - Panel			
14		3	Commscope - VV-65A-R1 - Panel			
15		3	Ericsson KRY 112 489/2 TMA's			
16		3	Allen Telecom FE15501P77/75 TMA's			
17		3	Ericsson 4449 B71 + B85 - RRU			
18		3	Ericsson 4460 B25 + B66 - RRU			
19		3	Kathrein 782 11056 Bias Ts			

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

Analysis Results

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

	Pole shafts	Anchor Bolts	Base Plate
Max. Usage:	83.1%	76.3%	72.5%
Pass/Fail	Pass	Pass	Pass

Foundations

	Moment (Kip-Ft)	Shear (Kips)	Axial (Kips)
Analysis Reactions	5211.4	41.8	55.3

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):

Operational characteristics of the tower are found to be within the limits prescribed by TIA-222 for the installed antennas. The maximum twist/sway at the elevation of the proposed equipment is 1.5770 degrees under the operational wind speed as specified in the Analysis Criteria.

Conclusions

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

Standard Conditions

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

Usage Diagram - Max Ratio 83.12% 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

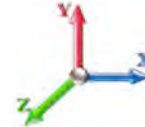
1/14/2022

Page: 1



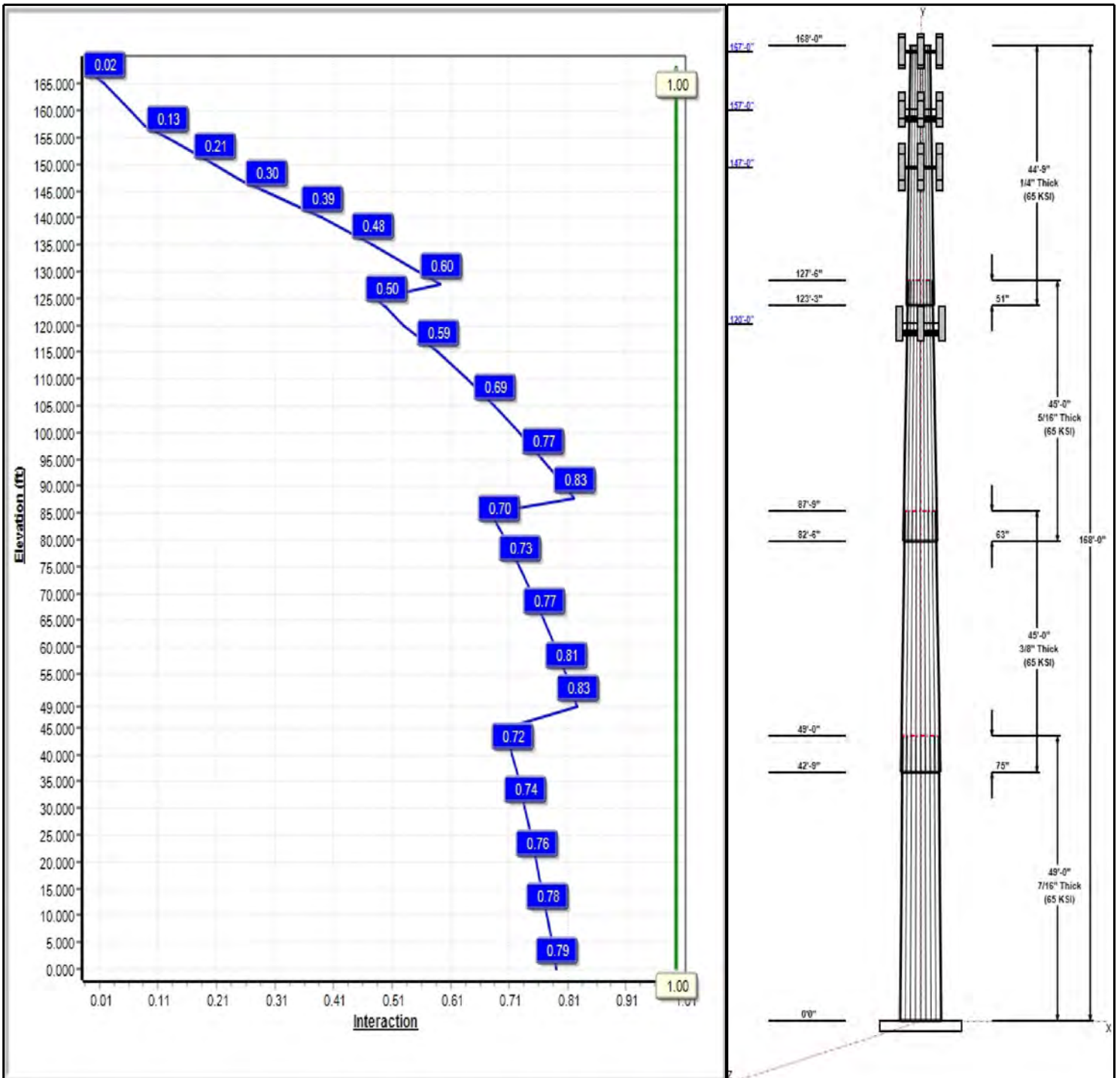
Dead Load Factor: 1.20
 Wind Load Factor: 1.60

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

1/14/2022

Page: 2



Shaft Properties

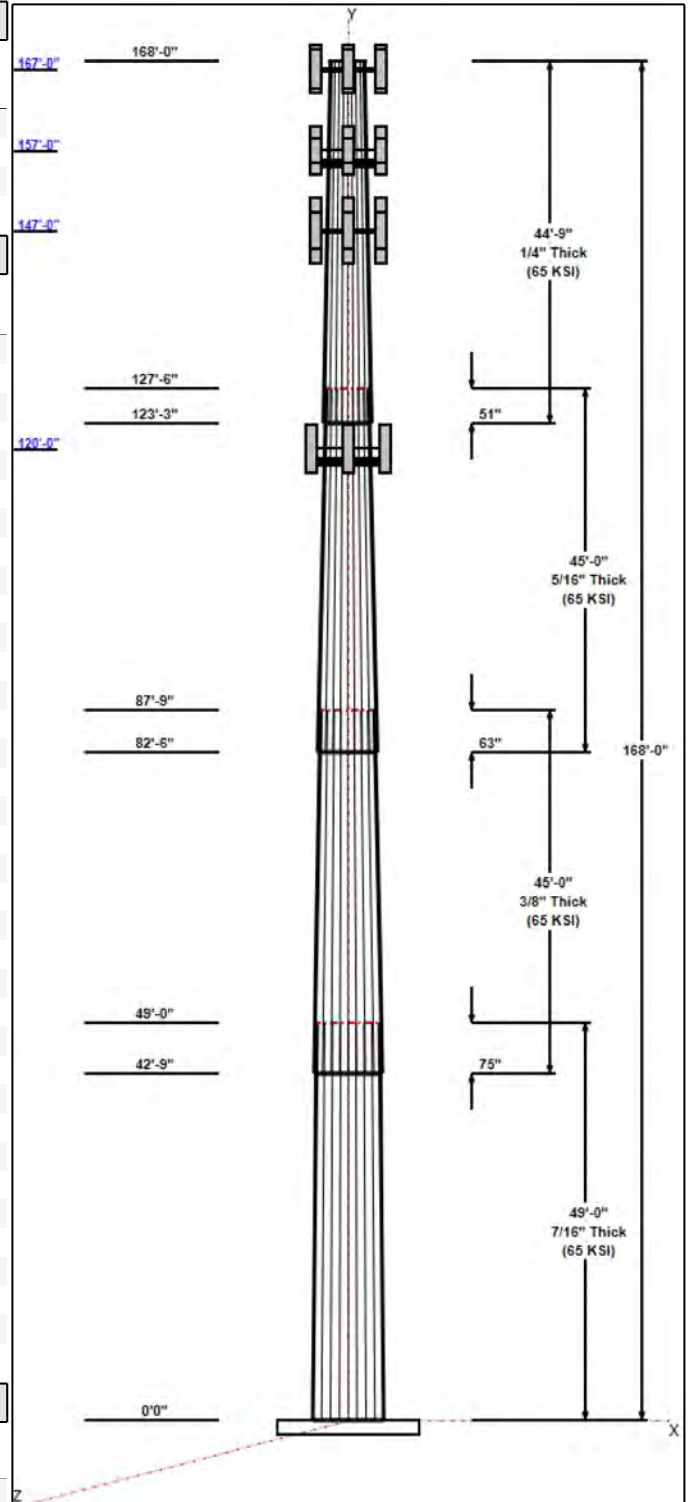
Seq	Length (ft)	Top (in)	Bottom (in)	Thick (in)	Joint Type	Taper	Grade (ksi)
1	49.00	48.31	59.09	0.438		0.22003	65
2	45.00	40.53	50.43	0.375	Slip	0.22003	65
3	45.00	32.41	42.31	0.313	Slip	0.22003	65
4	44.75	24.00	33.85	0.250	Slip	0.22003	65

Discrete Appurtenances

Attach Elev (ft)	Force Elev (ft)	Qty	Description	Carrier
168.00	170.50	1	Lightning Rod	---
167.00	167.00	3	RFS APXVTM14-C-I20	Sprint Nextel
167.00	167.00	3	Commscope	Sprint Nextel
167.00	167.00	3	ALU 1900 Mhz RRU's	Sprint Nextel
167.00	167.00	6	ALU 800 Mhz RRU's	Sprint Nextel
167.00	167.00	3	ALU TD-RRH8x20-25	Sprint Nextel
167.00	167.00	1	Reinforcement Kit (Site	Sprint Nextel
167.00	167.00	1	V-Brace Kit (Site Pro	Sprint Nextel
167.00	167.00	1	Pipe2.0STD x 15'	Sprint Nextel
167.00	167.00	6	Pipe2.0STD Mount Pipes	Sprint Nextel
167.00	167.00	1	Low Profile Platform	Sprint Nextel
157.00	157.00	3	Commscope	Verizon
157.00	157.00	6	JMA Wireless	Verizon
157.00	157.00	3	Samsung MT6407-77A	Verizon
157.00	157.00	3	Samsung B2/B66A RRU's	Verizon
157.00	157.00	3	Samsung B5/B13 RRU's	Verizon
157.00	157.00	1	Raycap	Verizon
157.00	157.00	3	JMA 91900314-02	Verizon
157.00	157.00	1	Platform w/ Hand Rails	Verizon
157.00	157.00	1	Kicker Kit	Verizon
157.00	157.00	1	Monopole Collar Mount	Verizon
147.00	147.00	3	AIR6449 B41	T-Mobile
147.00	147.00	3	VV-65A-R1	T-Mobile
147.00	147.00	3	4449 B71 + B85	T-Mobile
147.00	147.00	3	4460 B25 + B66	T-Mobile
147.00	147.00	3	RFS	T-Mobile
147.00	147.00	3	Ericsson KRY 112 489/2	T-Mobile
147.00	147.00	3	Allen Telecom	T-Mobile
147.00	147.00	3	Kathrein 782 11056 Bias	T-Mobile
147.00	147.00	1	Low Profile Platform	T-Mobile
147.00	147.00	1	Reinforcement Kit (Site	T-Mobile
120.00	120.00	3	JMA Wireless	Dish Wireless
120.00	120.00	3	Fujitsu TA08025-B605	Dish Wireless
120.00	120.00	3	Fujitsu TA08025-B604	Dish Wireless
120.00	120.00	1	Raycap	Dish Wireless
120.00	120.00	1	Platform w/HRK	Dish Wireless

Linear Appurtenances

Elev From (ft)	Elev To (ft)	Placement	Description	Carrier
3.00	167.00	Inside	1-1/4" Fiber	Sprint Nextel
3.00	157.00	Inside	1 5/8" Coax	Verizon
3.00	157.00	Inside	1 5/8" Hybrid	Verizon
3.00	147.00	Inside	1 5/8" Coax	T-Mobile
3.00	147.00	Inside	1 5/8" Fiber	T-Mobile
3.00	147.00	Inside	1.9" Fiber	T-Mobile



Structure: CT02217-S-SBA

Type: Tapered	Base Shape: 18 Sided	1/14/2022
Site Name: Pomfret School	Taper: 0.22003	
Height: 168.00 (ft)		
Base Elev: 0.00 (ft)		Page: 3



3.00	120.00	Inside	1.6" Hybrid	Dish Wireless
------	--------	--------	-------------	---------------

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	5211.4	41.8	55.4
0.9D + 1.6W 101 mph Wind	5144.3	41.8	41.5
1.2D + 1.0Di + 1.0Wi 50 mph Wind	1513.5	11.7	96.0
1.2D + 1.0E	347.6	2.5	55.4
0.9D + 1.0E	342.7	2.5	41.6
1.0D + 1.0W 60 mph Wind	1142.2	9.2	46.2

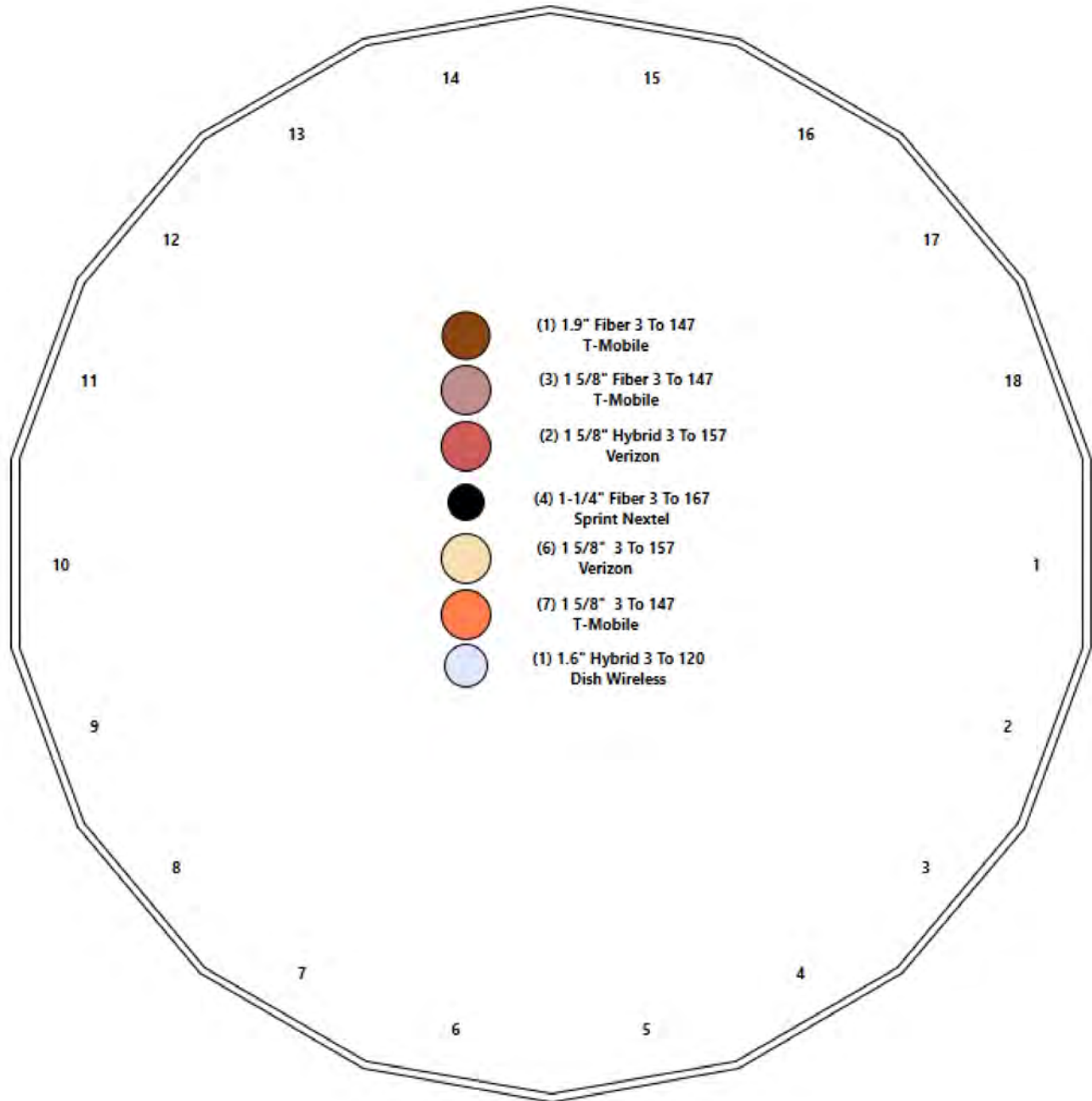
Structure: CT02217-S-SBA - Coax Line Placement

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

1/14/2022



Page: 4



Shaft Properties

Structure: CT02217-S-SBA	Code: EIA/TIA-222-G	1/14/2022
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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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	1/14/2022
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	RFS APXVTM14-C-I20	3	56.00	6.34	0.78	287.62	7.874	0.78	0.00	0.00
3	167.00	Commscope NNVV-65B-R4	3	84.70	12.27	0.73	505.85	14.232	0.73	0.00	0.00
4	167.00	ALU 1900 Mhz RRU's	3	60.00	2.38	0.67	172.45	3.849	0.67	0.00	0.00
5	167.00	ALU 800 Mhz RRU's	6	53.00	2.13	0.67	152.68	3.449	0.67	0.00	0.00
6	167.00	ALU TD-RRH8x20-25 RRU's	3	70.00	4.05	0.67	229.90	5.175	0.67	0.00	0.00
7	167.00	Reinforcement Kit (Site Pro	1	464.91	9.50	1.00	902.31	22.907	1.00	0.00	0.00
8	167.00	V-Brace Kit (Site Pro PRK-SFS-H-L)	1	230.00	6.70	1.00	662.78	16.155	1.00	0.00	0.00
9	167.00	Pipe2.0STD x 15' Horizontal Rail	1	261.72	6.75	1.00	680.32	15.641	1.00	0.00	0.00
10	167.00	Pipe2.0STD Mount Pipes	6	40.00	1.43	0.80	148.20	5.804	0.80	0.00	0.00
11	167.00	Low Profile Platform	1	1500.00	22.00	1.00	3264.05	45.803	1.00	0.00	0.00
12	157.00	Commscope LNX6514DS-AIM	3	38.80	8.17	0.83	277.37	11.951	0.83	0.00	0.00
13	157.00	JMA Wireless MX06FRO660-03	6	60.00	9.87	0.87	439.22	11.747	0.87	0.00	0.00
14	157.00	Samsung MT6407-77A	3	87.10	4.70	0.70	258.75	5.970	0.70	0.00	0.00
15	157.00	Samsung B2/B66A RRU's	3	84.40	1.88	0.67	195.59	2.663	0.67	0.00	0.00
16	157.00	Samsung B5/B13 RRU's	3	70.30	1.88	0.67	171.51	2.663	0.67	0.00	0.00
17	157.00	Raycap RVZDC-6627-PF-48 DC	1	32.00	4.06	0.67	184.60	5.161	0.67	0.00	0.00
18	157.00	JMA 91900314-02	3	28.00	0.80	0.50	54.18	1.548	0.50	0.00	0.00
19	157.00	Platform w/ Hand Rails	1	2000.00	40.00	1.00	4805.11	68.051	1.00	0.00	0.00
20	157.00	Kicker Kit	1	291.00	9.50	1.00	563.10	22.824	1.00	0.00	0.00
21	157.00	Monopole Collar Mount Assembly	1	150.00	2.50	1.00	430.51	6.006	1.00	0.00	0.00
22	147.00	AIR6449 B41	3	103.00	5.65	0.71	285.46	6.915	0.71	0.00	0.00
23	147.00	VV-65A-R1	3	23.81	7.90	0.74	222.91	7.398	0.74	0.00	0.00
24	147.00	4449 B71 + B85	3	75.00	1.97	0.67	153.72	2.728	0.67	0.00	0.00
25	147.00	4460 B25 + B66	3	104.00	2.85	0.67	195.29	3.748	0.67	0.00	0.00
26	147.00	RFS APXVAARR24_43-U-NA20	3	128.00	20.24	0.72	724.59	22.800	0.72	0.00	0.00
27	147.00	Ericsson KRY 112 489/2 TMA's	3	15.40	0.56	0.60	53.60	1.050	0.60	0.00	0.00
28	147.00	Allen Telecom FE15501P77/75	3	17.50	0.54	0.60	60.33	1.033	0.60	0.00	0.00
29	147.00	Kathrein 782 11056 Bias Ts	3	1.80	0.15	0.60	17.39	0.448	0.60	0.00	0.00
30	147.00	Low Profile Platform	1	1500.00	22.00	1.00	3241.69	45.501	1.00	0.00	0.00
31	147.00	Reinforcement Kit (Site Pro	1	464.91	9.50	1.00	896.77	22.737	1.00	0.00	0.00
32	120.00	JMA Wireless MX08FRO665-21	3	64.50	12.49	0.74	443.77	14.400	0.74	0.00	0.00
33	120.00	Fujitsu TA08025-B605 RRU's	3	74.95	1.96	0.67	143.10	2.692	0.67	0.00	0.00
34	120.00	Fujitsu TA08025-B604 RRU's	3	63.93	1.96	0.67	129.98	2.692	0.67	0.00	0.00
35	120.00	Raycap RDIDC-9181-PF-48 OVP	1	21.85	2.01	0.67	91.12	2.751	0.67	0.00	0.00
36	120.00	Platform w/HRK (Commscope	1	1411.00	33.60	1.00	3979.70	79.476	1.00	0.00	0.00
Totals:			91	13,033.96			37,970.05				

Linear Appurtenances

Bottom Elev. (ft)	Top Elev. (ft)	Description	Exposed Width	Exposed
3.00	167.00	(4) 1-1/4" Fiber	0.00	Inside
3.00	157.00	(6) 1 5/8" Coax	0.00	Inside
3.00	157.00	(2) 1 5/8" Hybrid	0.00	Inside
3.00	147.00	(7) 1 5/8" Coax	0.00	Inside
3.00	147.00	(3) 1 5/8" Fiber	0.00	Inside

Discrete Appurtenances

No.	Elev (ft)	Description	Qty	No Ice			Ice			Hor. Ecc. (ft)	Vert Ecc (ft)
				Weight (lb)	CaAa (sf)	CaAa Factor	Weight (lb)	CaAa (sf)	CaAa Factor		
3.00	147.00	(1) 1.9" Fiber		0.00		Inside					
3.00	120.00	(1) 1.6" Hybrid		0.00		Inside					

Shaft Section Properties

Structure: CT02217-S-SBA	Code: EIA/TIA-222-G	1/14/2022
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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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

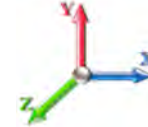
Structure: CT02217-S-SBA	Code: EIA/TIA-222-G	1/14/2022
Site Name: Pomfret School	Exposure: C	
Height: 168.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



Load Case: 1.2D + 1.6W 101 mph Wind

Iterations 25

Dead Load Factor 1.20
Wind Load Factor 1.60



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	Appurtenance(s)	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

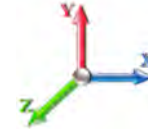
Structure: CT02217-S-SBA	Code: EIA/TIA-222-G	1/14/2022
Site Name: Pomfret School	Exposure: C	
Height: 168.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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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)	Orient Factor x Ka	Ka	Total CaAa (sf)	Dead Load (lb)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)
1	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	ALU TD-RRH8x20-25	3	34.978	38.476	0.54	0.80	6.51	252.00	0.000	0.000	400.91	0.00	0.00
3	167.00	RFS APXVTM14-C-I20	3	34.978	38.476	0.62	0.80	11.87	201.60	0.000	0.000	730.64	0.00	0.00
4	167.00	Commscope	3	34.978	38.476	0.58	0.80	21.50	304.92	0.000	0.000	1323.39	0.00	0.00
5	167.00	ALU 800 Mhz RRU's	6	34.978	38.476	0.54	0.80	6.85	381.60	0.000	0.000	421.70	0.00	0.00
6	167.00	ALU 1900 Mhz RRU's	3	34.978	38.476	0.54	0.80	3.83	216.00	0.000	0.000	235.60	0.00	0.00
7	167.00	V-Brace Kit (Site Pro	1	34.978	38.476	0.75	0.75	5.03	276.00	0.000	0.000	309.35	0.00	0.00
8	167.00	Pipe2.0STD x 15'	1	34.978	38.476	0.75	0.75	5.06	314.06	0.000	0.000	311.66	0.00	0.00
9	167.00	Pipe2.0STD Mount Pipes	6	34.978	38.476	0.64	0.80	5.49	288.00	0.000	0.000	338.05	0.00	0.00
10	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
11	167.00	Reinforcement Kit (Site	1	34.978	38.476	0.75	0.75	7.13	557.89	0.000	0.000	438.63	0.00	0.00
12	157.00	Raycap	1	34.526	37.979	0.50	0.75	2.04	38.40	0.000	0.000	123.97	0.00	0.00
13	157.00	Samsung B2/B66A RRU's	3	34.526	37.979	0.50	0.75	2.83	303.84	0.000	0.000	172.22	0.00	0.00
14	157.00	Samsung B5/B13 RRU's	3	34.526	37.979	0.50	0.75	2.83	253.08	0.000	0.000	172.22	0.00	0.00
15	157.00	Monopole Collar Mount	1	34.526	37.979	1.00	1.00	2.50	180.00	0.000	0.000	151.92	0.00	0.00
16	157.00	JMA 91900314-Q2	3	34.526	37.979	0.38	0.75	0.90	100.80	0.000	0.000	54.69	0.00	0.00
17	157.00	Platform w/ Hand Rails	1	34.526	37.979	1.00	1.00	40.00	2400.00	0.000	0.000	2430.66	0.00	0.00
18	157.00	Kicker Kit	1	34.526	37.979	1.00	1.00	9.50	349.20	0.000	0.000	577.28	0.00	0.00
19	157.00	Samsung MT6407-77A	3	34.526	37.979	0.52	0.75	7.40	313.56	0.000	0.000	449.82	0.00	0.00
20	157.00	Commscope	3	34.526	37.979	0.62	0.75	15.26	139.68	0.000	0.000	927.14	0.00	0.00
21	157.00	JMA Wireless	6	34.526	37.979	0.65	0.75	38.64	432.00	0.000	0.000	2348.08	0.00	0.00
22	147.00	RFS	3	34.051	37.456	0.54	0.75	32.79	460.80	0.000	0.000	1965.04	0.00	0.00
23	147.00	AIR6449 B41	3	34.051	37.456	0.53	0.75	9.03	370.80	0.000	0.000	540.92	0.00	0.00
24	147.00	VV-65A-R1	3	34.051	37.456	0.55	0.75	13.15	85.72	0.000	0.000	788.29	0.00	0.00
25	147.00	4449 B71 + B85	3	34.051	37.456	0.50	0.75	2.97	270.00	0.000	0.000	177.98	0.00	0.00
26	147.00	4460 B25 + B66	3	34.051	37.456	0.50	0.75	4.30	374.40	0.000	0.000	257.48	0.00	0.00
27	147.00	Ericsson KRY 112 489/2	3	34.051	37.456	0.45	0.75	0.76	55.44	0.000	0.000	45.31	0.00	0.00
28	147.00	Allen Telecom	3	34.051	37.456	0.45	0.75	0.73	63.00	0.000	0.000	43.69	0.00	0.00
29	147.00	Kathrein 782 11056 Bias	3	34.051	37.456	0.48	0.80	0.22	6.48	0.000	0.000	12.94	0.00	0.00
30	147.00	Low Profile Platform	1	34.051	37.456	1.00	1.00	22.00	1800.00	0.000	0.000	1318.47	0.00	0.00
31	147.00	Reinforcement Kit (Site	1	34.051	37.456	0.75	0.75	7.13	557.89	0.000	0.000	427.00	0.00	0.00
32	120.00	Platform w/HRK	1	32.627	35.890	1.00	1.00	33.60	1693.20	0.000	0.000	1929.44	0.00	0.00
33	120.00	Raycap	1	32.627	35.890	0.50	0.75	1.01	26.22	0.000	0.000	58.00	0.00	0.00
34	120.00	Fujitsu TA08025-B604	3	32.627	35.890	0.50	0.75	2.95	230.15	0.000	0.000	169.67	0.00	0.00
35	120.00	Fujitsu TA08025-B605	3	32.627	35.890	0.50	0.75	2.95	269.82	0.000	0.000	169.67	0.00	0.00
36	120.00	JMA Wireless	3	32.627	35.890	0.55	0.75	20.80	232.20	0.000	0.000	1194.18	0.00	0.00

Totals: 15,640.75

22,435.29

Total Applied Force Summary

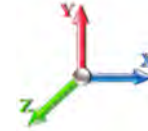
Structure: CT02217-S-SBA	Code: EIA/TIA-222-G	1/14/2022
Site Name: Pomfret School	Exposure: C	
Height: 168.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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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	1704.33	0.00	0.00
10.00		586.27	1758.82	0.00	0.00
15.00		575.05	1727.63	0.00	0.00
20.00		598.23	1696.44	0.00	0.00
25.00		614.52	1665.25	0.00	0.00
30.00		625.59	1634.06	0.00	0.00
35.00		632.82	1602.87	0.00	0.00
40.00		637.08	1571.68	0.00	0.00
42.75		349.37	851.13	0.00	0.00
45.00		290.11	1234.05	0.00	0.00
49.00		517.89	2164.90	0.00	0.00
50.00		128.58	264.63	0.00	0.00
55.00		647.08	1307.10	0.00	0.00
60.00		644.02	1280.37	0.00	0.00
65.00		639.70	1253.63	0.00	0.00
70.00		634.25	1226.90	0.00	0.00
75.00		627.79	1200.16	0.00	0.00
80.00		620.43	1173.43	0.00	0.00
82.50		306.21	576.69	0.00	0.00
85.00		308.69	992.47	0.00	0.00
87.75		337.14	1077.57	0.00	0.00
90.00		273.64	434.20	0.00	0.00
95.00		603.06	948.75	0.00	0.00
100.00		592.89	926.47	0.00	0.00
105.00		582.12	904.19	0.00	0.00
110.00		570.79	881.91	0.00	0.00
115.00		558.93	859.63	0.00	0.00
120.00	(11) attachments	4067.54	3288.94	0.00	0.00
123.25		347.92	525.24	0.00	0.00
125.00		187.62	468.32	0.00	0.00
127.50		265.41	660.51	0.00	0.00
130.00		262.08	328.27	0.00	0.00
135.00		514.98	643.17	0.00	0.00
140.00		500.99	625.35	0.00	0.00
145.00		486.62	607.53	0.00	0.00
147.00	(26) attachments	5767.27	4282.55	0.00	0.00
150.00		280.96	312.44	0.00	0.00
155.00		456.83	506.48	0.00	0.00
157.00	(25) attachments	7586.08	4708.16	0.00	0.00
160.00		262.65	260.67	0.00	0.00
165.00		425.73	420.20	0.00	0.00
167.00	(28) attachments	6029.79	4755.16	0.00	0.00
168.00	(1) attachments	146.66	119.31	0.00	162.31
	Totals:	41,688.86	55,431.58	0.00	162.31

Calculated Forces

Structure: CT02217-S-SBA	Code: EIA/TIA-222-G	1/14/2022
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	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	-55.35	-41.79	0.00	-5211.3	0.00	5211.37	5501.01	2750.51	13262.9	6641.33	0.00	0.000	0.000	0.795
5.00	-53.50	-41.38	0.00	-5002.4	0.00	5002.43	5435.34	2717.67	12856.9	6438.04	0.11	-0.205	0.000	0.787
10.00	-51.60	-40.98	0.00	-4795.5	0.00	4795.52	5368.23	2684.11	12453.6	6236.09	0.44	-0.414	0.000	0.779
15.00	-49.72	-40.57	0.00	-4590.6	0.00	4590.65	5299.69	2649.84	12053.2	6035.57	0.98	-0.625	0.000	0.770
20.00	-47.88	-40.13	0.00	-4387.8	0.00	4387.80	5229.71	2614.86	11655.8	5836.57	1.75	-0.840	0.000	0.761
25.00	-46.08	-39.67	0.00	-4187.1	0.00	4187.14	5158.30	2579.15	11261.6	5639.20	2.75	-1.057	0.000	0.752
30.00	-44.31	-39.18	0.00	-3988.8	0.00	3988.82	5085.46	2542.73	10870.9	5443.55	3.98	-1.278	0.000	0.742
35.00	-42.57	-38.68	0.00	-3792.9	0.00	3792.92	5011.18	2505.59	10483.8	5249.72	5.44	-1.502	0.000	0.731
40.00	-40.90	-38.12	0.00	-3599.5	0.00	3599.55	4935.46	2467.73	10100.6	5057.82	7.13	-1.729	0.000	0.720
42.75	-39.98	-37.83	0.00	-3494.7	0.00	3494.72	4893.21	2446.61	9891.54	4953.12	8.16	-1.856	0.000	0.714
45.00	-38.66	-37.59	0.00	-3409.6	0.00	3409.61	4858.32	2429.16	9721.41	4867.93	9.06	-1.962	0.000	0.709
49.00	-36.44	-37.07	0.00	-3259.2	0.00	3259.24	4959.59	1979.80	7922.06	3966.92	10.79	-2.148	0.000	0.831
50.00	-36.08	-37.03	0.00	-3222.1	0.00	3222.17	3948.01	1974.01	7862.92	3937.31	11.24	-2.196	0.000	0.828
55.00	-34.63	-36.49	0.00	-3037.0	0.00	3037.01	3889.26	1944.63	7568.72	3789.99	13.68	-2.456	0.000	0.811
60.00	-33.22	-35.94	0.00	-2854.5	0.00	2854.56	3829.07	1914.54	7277.15	3643.98	16.39	-2.719	0.000	0.792
65.00	-31.84	-35.39	0.00	-2674.8	0.00	2674.85	3767.45	1883.72	6988.40	3499.39	19.38	-2.983	0.000	0.773
70.00	-30.48	-34.83	0.00	-2497.9	0.00	2497.90	3704.39	1852.20	6702.67	3356.32	22.65	-3.248	0.000	0.753
75.00	-29.16	-34.27	0.00	-2323.7	0.00	2323.75	3639.90	1819.95	6420.16	3214.85	26.19	-3.515	0.000	0.731
80.00	-27.91	-33.67	0.00	-2152.4	0.00	2152.41	3573.98	1786.99	6141.06	3075.10	30.01	-3.782	0.000	0.708
82.50	-27.28	-33.39	0.00	-2068.2	0.00	2068.22	3540.48	1770.24	6002.85	3005.89	32.03	-3.918	0.000	0.696
85.00	-26.23	-33.08	0.00	-1984.7	0.00	1984.74	3506.62	1753.31	5865.57	2937.15	34.12	-4.054	0.000	0.684
87.75	-25.10	-32.73	0.00	-1893.7	0.00	1893.76	2761.71	1380.86	4636.01	2321.45	36.49	-4.203	0.000	0.825
90.00	-24.57	-32.51	0.00	-1820.1	0.00	1820.13	2740.07	1370.04	4543.51	2275.13	38.50	-4.325	0.000	0.810
95.00	-23.50	-31.96	0.00	-1657.5	0.00	1657.56	2690.94	1345.47	4339.45	2172.95	43.19	-4.625	0.000	0.772
100.00	-22.47	-31.41	0.00	-1497.7	0.00	1497.75	2640.38	1320.19	4137.62	2071.89	48.19	-4.922	0.000	0.732
105.00	-21.47	-30.86	0.00	-1340.7	0.00	1340.70	2588.38	1294.19	3938.22	1972.04	53.49	-5.212	0.000	0.689
110.00	-20.49	-30.31	0.00	-1186.4	0.00	1186.42	2534.95	1267.48	3741.44	1873.50	59.10	-5.494	0.000	0.642
115.00	-19.56	-29.76	0.00	-1034.8	0.00	1034.89	2480.09	1240.04	3547.48	1776.38	64.99	-5.765	0.000	0.591
120.00	-16.61	-25.43	0.00	-886.11	0.00	886.11	2423.79	1211.90	3356.53	1680.76	71.16	-6.023	0.000	0.534
123.25	-16.07	-25.07	0.00	-803.45	0.00	803.45	2386.43	1193.21	3234.12	1619.46	75.31	-6.185	0.000	0.503
125.00	-15.58	-24.86	0.00	-759.59	0.00	759.59	2366.06	1183.03	3168.79	1586.75	77.59	-6.271	0.000	0.486
127.50	-14.91	-24.55	0.00	-697.45	0.00	697.45	1766.99	883.49	2371.88	1187.70	80.90	-6.390	0.000	0.596
130.00	-14.53	-24.30	0.00	-636.07	0.00	636.07	1747.69	873.85	2306.16	1154.80	84.27	-6.504	0.000	0.560
135.00	-13.85	-23.77	0.00	-514.57	0.00	514.57	1708.02	854.01	2176.01	1089.62	91.20	-6.751	0.000	0.481
140.00	-13.21	-23.24	0.00	-395.73	0.00	395.73	1666.92	833.46	2047.71	1025.37	98.38	-6.967	0.000	0.395
145.00	-12.62	-22.71	0.00	-279.51	0.00	279.51	1624.39	812.19	1921.45	962.15	105.76	-7.146	0.000	0.299
147.00	-9.08	-16.47	0.00	-234.08	0.00	234.08	1606.97	803.49	1871.57	937.18	108.76	-7.207	0.000	0.256
150.00	-8.78	-16.16	0.00	-184.69	0.00	184.69	1580.42	790.21	1797.44	900.06	113.30	-7.285	0.000	0.211
155.00	-8.32	-15.65	0.00	-103.88	0.00	103.88	1535.02	767.51	1675.88	839.18	120.97	-7.382	0.000	0.130
157.00	-4.62	-7.52	0.00	-72.58	0.00	72.58	1516.46	758.23	1627.98	815.20	124.06	-7.408	0.000	0.092
160.00	-4.39	-7.23	0.00	-50.00	0.00	50.00	1488.18	744.09	1556.95	779.63	128.71	-7.437	0.000	0.067
165.00	-4.03	-6.76	0.00	-13.84	0.00	13.84	1439.00	719.50	1439.93	721.04	136.49	-7.465	0.000	0.022
167.00	-0.10	-0.16	0.00	-0.32	0.00	0.32	1413.06	706.53	1388.23	695.14	139.61	-7.467	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	141.17	-7.468	0.000	0.000

Wind Loading - Shaft

Structure: CT02217-S-SBA	Code: EIA/TIA-222-G	1/14/2022
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

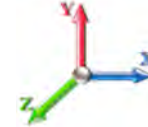


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Load Case: 0.9D + 1.6W 101 mph Wind

Iterations 25

Dead Load Factor 0.90
Wind Load Factor 1.60



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	Appurtenance(s)	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	1/14/2022
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)	Orient Factor x Ka	Ka	Total CaAa (sf)	Dead Load (lb)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)	
1	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	ALU TD-RRH8x20-25	3	34.978	38.476	0.54	0.80	6.51	189.00	0.000	0.000	400.91	0.00	0.00	
3	167.00	RFS APXVTM14-C-I20	3	34.978	38.476	0.62	0.80	11.87	151.20	0.000	0.000	730.64	0.00	0.00	
4	167.00	Commscope	3	34.978	38.476	0.58	0.80	21.50	228.69	0.000	0.000	1323.39	0.00	0.00	
5	167.00	ALU 800 Mhz RRU's	6	34.978	38.476	0.54	0.80	6.85	286.20	0.000	0.000	421.70	0.00	0.00	
6	167.00	ALU 1900 Mhz RRU's	3	34.978	38.476	0.54	0.80	3.83	162.00	0.000	0.000	235.60	0.00	0.00	
7	167.00	V-Brace Kit (Site Pro	1	34.978	38.476	0.75	0.75	5.03	207.00	0.000	0.000	309.35	0.00	0.00	
8	167.00	Pipe2.0STD x 15'	1	34.978	38.476	0.75	0.75	5.06	235.55	0.000	0.000	311.66	0.00	0.00	
9	167.00	Pipe2.0STD Mount Pipes	6	34.978	38.476	0.64	0.80	5.49	216.00	0.000	0.000	338.05	0.00	0.00	
10	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	
11	167.00	Reinforcement Kit (Site	1	34.978	38.476	0.75	0.75	7.13	418.42	0.000	0.000	438.63	0.00	0.00	
12	157.00	Raycap	1	34.526	37.979	0.50	0.75	2.04	28.80	0.000	0.000	123.97	0.00	0.00	
13	157.00	Samsung B2/B66A RRU's	3	34.526	37.979	0.50	0.75	2.83	227.88	0.000	0.000	172.22	0.00	0.00	
14	157.00	Samsung B5/B13 RRU's	3	34.526	37.979	0.50	0.75	2.83	189.81	0.000	0.000	172.22	0.00	0.00	
15	157.00	Monopole Collar Mount	1	34.526	37.979	1.00	1.00	2.50	135.00	0.000	0.000	151.92	0.00	0.00	
16	157.00	JMA 91900314-Q2	3	34.526	37.979	0.38	0.75	0.90	75.60	0.000	0.000	54.69	0.00	0.00	
17	157.00	Platform w/ Hand Rails	1	34.526	37.979	1.00	1.00	40.00	1800.00	0.000	0.000	2430.66	0.00	0.00	
18	157.00	Kicker Kit	1	34.526	37.979	1.00	1.00	9.50	261.90	0.000	0.000	577.28	0.00	0.00	
19	157.00	Samsung MT6407-77A	3	34.526	37.979	0.52	0.75	7.40	235.17	0.000	0.000	449.82	0.00	0.00	
20	157.00	Commscope	3	34.526	37.979	0.62	0.75	15.26	104.76	0.000	0.000	927.14	0.00	0.00	
21	157.00	JMA Wireless	6	34.526	37.979	0.65	0.75	38.64	324.00	0.000	0.000	2348.08	0.00	0.00	
22	147.00	RFS	3	34.051	37.456	0.54	0.75	32.79	345.60	0.000	0.000	1965.04	0.00	0.00	
23	147.00	AIR6449 B41	3	34.051	37.456	0.53	0.75	9.03	278.10	0.000	0.000	540.92	0.00	0.00	
24	147.00	VV-65A-R1	3	34.051	37.456	0.55	0.75	13.15	64.29	0.000	0.000	788.29	0.00	0.00	
25	147.00	4449 B71 + B85	3	34.051	37.456	0.50	0.75	2.97	202.50	0.000	0.000	177.98	0.00	0.00	
26	147.00	4460 B25 + B66	3	34.051	37.456	0.50	0.75	4.30	280.80	0.000	0.000	257.48	0.00	0.00	
27	147.00	Ericsson KRY 112 489/2	3	34.051	37.456	0.45	0.75	0.76	41.58	0.000	0.000	45.31	0.00	0.00	
28	147.00	Allen Telecom	3	34.051	37.456	0.45	0.75	0.73	47.25	0.000	0.000	43.69	0.00	0.00	
29	147.00	Kathrein 782 11056 Bias	3	34.051	37.456	0.48	0.80	0.22	4.86	0.000	0.000	12.94	0.00	0.00	
30	147.00	Low Profile Platform	1	34.051	37.456	1.00	1.00	22.00	1350.00	0.000	0.000	1318.47	0.00	0.00	
31	147.00	Reinforcement Kit (Site	1	34.051	37.456	0.75	0.75	7.13	418.42	0.000	0.000	427.00	0.00	0.00	
32	120.00	Platform w/HRK	1	32.627	35.890	1.00	1.00	33.60	1269.90	0.000	0.000	1929.44	0.00	0.00	
33	120.00	Raycap	1	32.627	35.890	0.50	0.75	1.01	19.67	0.000	0.000	58.00	0.00	0.00	
34	120.00	Fujitsu TA08025-B604	3	32.627	35.890	0.50	0.75	2.95	172.61	0.000	0.000	169.67	0.00	0.00	
35	120.00	Fujitsu TA08025-B605	3	32.627	35.890	0.50	0.75	2.95	202.37	0.000	0.000	169.67	0.00	0.00	
36	120.00	JMA Wireless	3	32.627	35.890	0.55	0.75	20.80	174.15	0.000	0.000	1194.18	0.00	0.00	
Totals:									11,730.56						22,435.29

Total Applied Force Summary

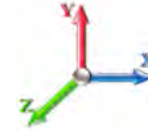
Structure: CT02217-S-SBA	Code: EIA/TIA-222-G	1/14/2022
Site Name: Pomfret School	Exposure: C	
Height: 168.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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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	1278.25	0.00	0.00
10.00		586.27	1319.11	0.00	0.00
15.00		575.05	1295.72	0.00	0.00
20.00		598.23	1272.33	0.00	0.00
25.00		614.52	1248.94	0.00	0.00
30.00		625.59	1225.55	0.00	0.00
35.00		632.82	1202.15	0.00	0.00
40.00		637.08	1178.76	0.00	0.00
42.75		349.37	638.35	0.00	0.00
45.00		290.11	925.54	0.00	0.00
49.00		517.89	1623.68	0.00	0.00
50.00		128.58	198.47	0.00	0.00
55.00		647.08	980.32	0.00	0.00
60.00		644.02	960.27	0.00	0.00
65.00		639.70	940.22	0.00	0.00
70.00		634.25	920.17	0.00	0.00
75.00		627.79	900.12	0.00	0.00
80.00		620.43	880.07	0.00	0.00
82.50		306.21	432.52	0.00	0.00
85.00		308.69	744.36	0.00	0.00
87.75		337.14	808.18	0.00	0.00
90.00		273.64	325.65	0.00	0.00
95.00		603.06	711.56	0.00	0.00
100.00		592.89	694.85	0.00	0.00
105.00		582.12	678.14	0.00	0.00
110.00		570.79	661.43	0.00	0.00
115.00		558.93	644.73	0.00	0.00
120.00	(11) attachments	4067.54	2466.71	0.00	0.00
123.25		347.92	393.93	0.00	0.00
125.00		187.62	351.24	0.00	0.00
127.50		265.41	495.38	0.00	0.00
130.00		262.08	246.20	0.00	0.00
135.00		514.98	482.38	0.00	0.00
140.00		500.99	469.01	0.00	0.00
145.00		486.62	455.64	0.00	0.00
147.00	(26) attachments	5767.27	3211.91	0.00	0.00
150.00		280.96	234.33	0.00	0.00
155.00		456.83	379.86	0.00	0.00
157.00	(25) attachments	7586.08	3531.12	0.00	0.00
160.00		262.65	195.50	0.00	0.00
165.00		425.73	315.15	0.00	0.00
167.00	(28) attachments	6029.79	3566.37	0.00	0.00
168.00	(1) attachments	146.66	89.48	0.00	162.31
	Totals:	41,688.86	41,573.68	0.00	162.31

Calculated Forces

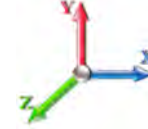
Structure: CT02217-S-SBA	Code: EIA/TIA-222-G	1/14/2022
Site Name: Pomfret School	Exposure: C	
Height: 168.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



Load Case: 0.9D + 1.6W 101 mph Wind

Iterations 25

Dead Load Factor 0.90
Wind Load Factor 1.60



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	-41.50	-41.76	0.00	-5144.3	0.00	5144.35	5501.01	2750.51	13262.9	6641.33	0.00	0.000	0.000	0.782
5.00	-40.07	-41.31	0.00	-4935.5	0.00	4935.53	5435.34	2717.67	12856.9	6438.04	0.11	-0.203	0.000	0.774
10.00	-38.61	-40.85	0.00	-4729.0	0.00	4729.00	5368.23	2684.11	12453.6	6236.09	0.43	-0.408	0.000	0.766
15.00	-37.17	-40.40	0.00	-4524.7	0.00	4524.74	5299.69	2649.84	12053.2	6035.57	0.97	-0.617	0.000	0.757
20.00	-35.76	-39.92	0.00	-4322.7	0.00	4322.73	5229.71	2614.86	11655.8	5836.57	1.73	-0.828	0.000	0.748
25.00	-34.37	-39.42	0.00	-4123.1	0.00	4123.12	5158.30	2579.15	11261.6	5639.20	2.71	-1.043	0.000	0.738
30.00	-33.01	-38.89	0.00	-3926.0	0.00	3926.04	5085.46	2542.73	10870.9	5443.55	3.92	-1.260	0.000	0.728
35.00	-31.68	-38.35	0.00	-3731.5	0.00	3731.58	5011.18	2505.59	10483.8	5249.72	5.36	-1.480	0.000	0.717
40.00	-30.40	-37.78	0.00	-3539.8	0.00	3539.81	4935.46	2467.73	10100.6	5057.82	7.03	-1.703	0.000	0.706
42.75	-29.70	-37.47	0.00	-3435.9	0.00	3435.93	4893.21	2446.61	9891.54	4953.12	8.05	-1.828	0.000	0.700
45.00	-28.69	-37.22	0.00	-3351.6	0.00	3351.63	4858.32	2429.16	9721.41	4867.93	8.93	-1.932	0.000	0.695
49.00	-27.01	-36.70	0.00	-3202.7	0.00	3202.75	3959.59	1979.80	7922.06	3966.92	10.63	-2.116	0.000	0.815
50.00	-26.72	-36.63	0.00	-3166.0	0.00	3166.05	3948.01	1974.01	7862.92	3937.31	11.08	-2.163	0.000	0.811
55.00	-25.61	-36.06	0.00	-2982.8	0.00	2982.88	3889.26	1944.63	7568.72	3789.99	13.48	-2.418	0.000	0.794
60.00	-24.52	-35.49	0.00	-2802.5	0.00	2802.57	3829.07	1914.54	7277.15	3643.98	16.15	-2.676	0.000	0.776
65.00	-23.45	-34.91	0.00	-2625.1	0.00	2625.13	3767.45	1883.72	6988.40	3499.39	19.09	-2.935	0.000	0.757
70.00	-22.41	-34.33	0.00	-2450.5	0.00	2450.58	3704.39	1852.20	6702.67	3356.32	22.31	-3.196	0.000	0.737
75.00	-21.39	-33.75	0.00	-2278.9	0.00	2278.94	3639.90	1819.95	6420.16	3214.85	25.79	-3.457	0.000	0.715
80.00	-20.44	-33.14	0.00	-2110.1	0.00	2110.19	3573.98	1786.99	6141.06	3075.10	29.55	-3.719	0.000	0.692
82.50	-19.95	-32.86	0.00	-2027.3	0.00	2027.33	3540.48	1770.24	6002.85	3005.89	31.53	-3.852	0.000	0.680
85.00	-19.15	-32.55	0.00	-1945.1	0.00	1945.19	3506.62	1753.31	5865.57	2937.15	33.58	-3.986	0.000	0.668
87.75	-18.29	-32.19	0.00	-1855.6	0.00	1855.69	2761.71	1380.86	4636.01	2321.45	35.92	-4.132	0.000	0.807
90.00	-17.87	-31.96	0.00	-1783.2	0.00	1783.26	2740.07	1370.04	4543.51	2275.13	37.90	-4.251	0.000	0.791
95.00	-17.05	-31.39	0.00	-1623.4	0.00	1623.44	2690.94	1345.47	4339.45	2172.95	42.50	-4.545	0.000	0.754
100.00	-16.25	-30.83	0.00	-1466.4	0.00	1466.47	2640.38	1320.19	4137.62	2071.89	47.42	-4.835	0.000	0.714
105.00	-15.48	-30.27	0.00	-1312.3	0.00	1312.33	2588.38	1294.19	3938.22	1972.04	52.63	-5.120	0.000	0.672
110.00	-14.73	-29.71	0.00	-1161.0	0.00	1161.01	2534.95	1267.48	3741.44	1873.50	58.13	-5.396	0.000	0.626
115.00	-14.01	-29.15	0.00	-1012.4	0.00	1012.47	2480.09	1240.04	3547.48	1776.38	63.92	-5.661	0.000	0.576
120.00	-11.88	-24.90	0.00	-866.72	0.00	866.72	2423.79	1211.90	3356.53	1680.76	69.98	-5.913	0.000	0.521
123.25	-11.47	-24.54	0.00	-785.80	0.00	785.80	2386.43	1193.21	3234.12	1619.46	74.05	-6.072	0.000	0.490
125.00	-11.10	-24.33	0.00	-742.86	0.00	742.86	2366.06	1183.03	3168.79	1586.75	76.29	-6.156	0.000	0.473
127.50	-10.59	-24.03	0.00	-682.03	0.00	682.03	1766.99	883.49	2371.88	1187.70	79.54	-6.272	0.000	0.581
130.00	-10.30	-23.78	0.00	-621.95	0.00	621.95	1747.69	873.85	2306.16	1154.80	82.85	-6.384	0.000	0.545
135.00	-9.79	-23.25	0.00	-503.05	0.00	503.05	1708.02	854.01	2176.01	1089.62	89.65	-6.625	0.000	0.468
140.00	-9.30	-22.73	0.00	-386.79	0.00	386.79	1666.92	833.46	2047.71	1025.37	96.69	-6.837	0.000	0.384
145.00	-8.87	-22.21	0.00	-273.13	0.00	273.13	1624.39	812.19	1921.45	962.15	103.93	-7.012	0.000	0.290
147.00	-6.37	-16.10	0.00	-228.71	0.00	228.71	1606.97	803.49	1871.57	937.18	106.88	-7.071	0.000	0.248
150.00	-6.14	-15.80	0.00	-180.41	0.00	180.41	1580.42	790.21	1797.44	900.06	111.34	-7.148	0.000	0.205
155.00	-5.81	-15.31	0.00	-101.40	0.00	101.40	1535.02	767.51	1675.88	839.18	118.86	-7.242	0.000	0.125
157.00	-3.26	-7.34	0.00	-70.78	0.00	70.78	1516.46	758.23	1627.98	815.20	121.89	-7.268	0.000	0.089
160.00	-3.10	-7.05	0.00	-48.77	0.00	48.77	1488.18	744.09	1556.95	779.63	126.45	-7.296	0.000	0.065
165.00	-2.84	-6.59	0.00	-13.50	0.00	13.50	1439.00	719.50	1439.93	721.04	134.09	-7.323	0.000	0.021
167.00	-0.07	-0.16	0.00	-0.32	0.00	0.32	1413.06	706.53	1388.23	695.14	137.15	-7.325	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	138.68	-7.325	0.000	0.000

Wind Loading - Shaft

Structure: CT02217-S-SBA	Code: EIA/TIA-222-G	1/14/2022
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

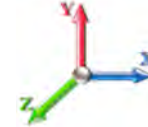


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Load Case: 1.2D + 1.0Di + 1.0Wi 50 mph Wind

Iterations 25

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	Appurtenance(s)	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

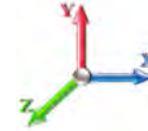
Structure: CT02217-S-SBA	Code: EIA/TIA-222-G	1/14/2022
Site Name: Pomfret School	Exposure: C	
Height: 168.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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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 25

No.	Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	Orient Factor x Ka	Ka	Total CaAa (sf)	Dead Load (lb)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)	
1	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	ALU TD-RRH8x20-25	3	8.572	9.429	0.54	0.80	8.32	731.70	0.000	0.000	78.47	0.00	0.00	
3	167.00	RFS APXVTM14-C-I20	3	8.572	9.429	0.62	0.80	14.74	896.46	0.000	0.000	138.99	0.00	0.00	
4	167.00	Commscope	3	8.572	9.429	0.58	0.80	24.94	1392.88	0.000	0.000	235.13	0.00	0.00	
5	167.00	ALU 800 Mhz RRU's	6	8.572	9.429	0.54	0.80	11.09	853.07	0.000	0.000	104.58	0.00	0.00	
6	167.00	ALU 1900 Mhz RRU's	3	8.572	9.429	0.54	0.80	6.19	481.64	0.000	0.000	58.36	0.00	0.00	
7	167.00	V-Brace Kit (Site Pro	1	8.572	9.429	0.75	0.75	12.12	607.78	0.000	0.000	114.25	0.00	0.00	
8	167.00	Pipe2.0STD x 15'	1	8.572	9.429	0.75	0.75	11.73	994.38	0.000	0.000	110.61	0.00	0.00	
9	167.00	Pipe2.0STD Mount Pipes	6	8.572	9.429	0.64	0.80	22.29	799.17	0.000	0.000	210.15	0.00	0.00	
10	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	
11	167.00	Reinforcement Kit (Site	1	8.572	9.429	0.75	0.75	17.18	900.20	0.000	0.000	162.00	0.00	0.00	
12	157.00	Raycap	1	8.462	9.308	0.50	0.75	2.59	165.80	0.000	0.000	24.14	0.00	0.00	
13	157.00	Samsung B2/B66A RRU's	3	8.462	9.308	0.50	0.75	4.01	637.40	0.000	0.000	37.37	0.00	0.00	
14	157.00	Samsung B5/B13 RRU's	3	8.462	9.308	0.50	0.75	4.01	556.70	0.000	0.000	37.37	0.00	0.00	
15	157.00	Monopole Collar Mount	1	8.462	9.308	1.00	1.00	6.01	393.61	0.000	0.000	55.91	0.00	0.00	
16	157.00	JMA 91900314-Q2	3	8.462	9.308	0.38	0.75	1.74	8.34	0.000	0.000	16.21	0.00	0.00	
17	157.00	Platform w/ Hand Rails	1	8.462	9.308	1.00	1.00	68.05	4605.11	0.000	0.000	633.40	0.00	0.00	
18	157.00	Kicker Kit	1	8.462	9.308	1.00	1.00	22.82	352.30	0.000	0.000	212.44	0.00	0.00	
19	157.00	Samsung MT6407-77A	3	8.462	9.308	0.52	0.75	9.40	828.51	0.000	0.000	87.51	0.00	0.00	
20	157.00	Commscope	3	8.462	9.308	0.62	0.75	22.32	705.10	0.000	0.000	207.74	0.00	0.00	
21	157.00	JMA Wireless	6	8.462	9.308	0.65	0.75	45.99	2707.32	0.000	0.000	428.05	0.00	0.00	
22	147.00	RFS	3	8.345	9.180	0.54	0.75	36.94	2250.56	0.000	0.000	339.05	0.00	0.00	
23	147.00	AIR6449 B41	3	8.345	9.180	0.53	0.75	11.05	823.07	0.000	0.000	101.40	0.00	0.00	
24	147.00	VV-65A-R1	3	8.345	9.180	0.55	0.75	12.32	683.01	0.000	0.000	113.08	0.00	0.00	
25	147.00	4449 B71 + B85	3	8.345	9.180	0.50	0.75	4.11	336.37	0.000	0.000	37.75	0.00	0.00	
26	147.00	4460 B25 + B66	3	8.345	9.180	0.50	0.75	5.65	582.28	0.000	0.000	51.86	0.00	0.00	
27	147.00	Ericsson KRY 112 489/2	3	8.345	9.180	0.45	0.75	1.42	170.03	0.000	0.000	13.01	0.00	0.00	
28	147.00	Allen Telecom	3	8.345	9.180	0.45	0.75	1.39	191.49	0.000	0.000	12.80	0.00	0.00	
29	147.00	Kathrein 782 11056 Bias	3	8.345	9.180	0.48	0.80	0.65	53.26	0.000	0.000	5.92	0.00	0.00	
30	147.00	Low Profile Platform	1	8.345	9.180	1.00	1.00	45.50	3241.69	0.000	0.000	417.68	0.00	0.00	
31	147.00	Reinforcement Kit (Site	1	8.345	9.180	0.75	0.75	17.05	894.66	0.000	0.000	156.54	0.00	0.00	
32	120.00	Platform w/HRK	1	7.996	8.796	1.00	1.00	79.48	3640.90	0.000	0.000	699.05	0.00	0.00	
33	120.00	Raycap	1	7.996	8.796	0.50	0.75	1.38	82.74	0.000	0.000	12.16	0.00	0.00	
34	120.00	Fujitsu TA08025-B604	3	7.996	8.796	0.50	0.75	4.06	392.08	0.000	0.000	35.69	0.00	0.00	
35	120.00	Fujitsu TA08025-B605	3	7.996	8.796	0.50	0.75	4.06	436.33	0.000	0.000	35.69	0.00	0.00	
36	120.00	JMA Wireless	3	7.996	8.796	0.55	0.75	23.98	1168.41	0.000	0.000	210.88	0.00	0.00	
Totals:									36,903.77						5,667.37

Total Applied Force Summary

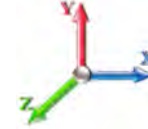
Structure: CT02217-S-SBA	Code: EIA/TIA-222-G	1/14/2022
Site Name: Pomfret School	Exposure: C	
Height: 168.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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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 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		178.38	2323.07	0.00	0.00
10.00		175.88	2411.03	0.00	0.00
15.00		173.12	2394.93	0.00	0.00
20.00		180.64	2370.73	0.00	0.00
25.00		186.07	2341.86	0.00	0.00
30.00		189.92	2309.90	0.00	0.00
35.00		192.60	2275.72	0.00	0.00
40.00		194.38	2239.86	0.00	0.00
42.75		106.78	1216.90	0.00	0.00
45.00		88.68	1536.39	0.00	0.00
49.00		158.57	2698.00	0.00	0.00
50.00		39.41	397.61	0.00	0.00
55.00		198.69	1964.12	0.00	0.00
60.00		198.25	1928.73	0.00	0.00
65.00		197.44	1892.68	0.00	0.00
70.00		196.28	1856.04	0.00	0.00
75.00		194.82	1818.90	0.00	0.00
80.00		193.09	1781.29	0.00	0.00
82.50		95.50	877.83	0.00	0.00
85.00		96.28	1295.07	0.00	0.00
87.75		105.33	1406.94	0.00	0.00
90.00		85.62	701.32	0.00	0.00
95.00		189.15	1530.39	0.00	0.00
100.00		186.57	1495.86	0.00	0.00
105.00		183.81	1461.04	0.00	0.00
110.00		180.89	1425.95	0.00	0.00
115.00		177.81	1390.61	0.00	0.00
120.00	(11) attachments	1168.04	7075.51	0.00	0.00
123.25		111.50	856.04	0.00	0.00
125.00		60.15	647.29	0.00	0.00
127.50		85.25	912.77	0.00	0.00
130.00		84.37	577.10	0.00	0.00
135.00		166.39	1126.97	0.00	0.00
140.00		162.67	1095.09	0.00	0.00
145.00		158.83	1063.05	0.00	0.00
147.00	(26) attachments	1311.38	9644.35	0.00	0.00
150.00		92.32	577.13	0.00	0.00
155.00		150.85	933.09	0.00	0.00
157.00	(25) attachments	1799.19	11326.09	0.00	0.00
160.00		87.40	507.83	0.00	0.00
165.00		142.48	817.30	0.00	0.00
167.00	(28) attachments	1700.11	11240.88	0.00	0.00
168.00	(1) attachments	67.82	230.30	0.00	100.64
	Totals:	11,692.69	95,973.56	0.00	100.64

Calculated Forces

Structure: CT02217-S-SBA	Code: EIA/TIA-222-G	1/14/2022
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

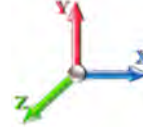


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Load Case: 1.2D + 1.0Di + 1.0Wi 50 mph Wind

Iterations 25

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	-95.97	-11.74	0.00	-1513.4	0.00	1513.47	5501.01	2750.51	13262.9	6641.33	0.00	0.000	0.000	0.245
5.00	-93.63	-11.66	0.00	-1454.7	0.00	1454.75	5435.34	2717.67	12856.9	6438.04	0.03	-0.060	0.000	0.243
10.00	-91.21	-11.58	0.00	-1396.4	0.00	1396.44	5368.23	2684.11	12453.6	6236.09	0.13	-0.120	0.000	0.241
15.00	-88.80	-11.50	0.00	-1338.5	0.00	1338.54	5299.69	2649.84	12053.2	6035.57	0.29	-0.182	0.000	0.239
20.00	-86.42	-11.40	0.00	-1281.0	0.00	1281.06	5229.71	2614.86	11655.8	5836.57	0.51	-0.245	0.000	0.236
25.00	-84.07	-11.30	0.00	-1224.0	0.00	1224.05	5158.30	2579.15	11261.6	5639.20	0.80	-0.308	0.000	0.233
30.00	-81.74	-11.19	0.00	-1167.5	0.00	1167.56	5085.46	2542.73	10870.9	5443.55	1.16	-0.373	0.000	0.231
35.00	-79.46	-11.07	0.00	-1111.6	0.00	1111.62	5011.18	2505.59	10483.8	5249.72	1.58	-0.438	0.000	0.228
40.00	-77.21	-10.93	0.00	-1056.2	0.00	1056.27	4935.46	2467.73	10100.6	5057.82	2.08	-0.505	0.000	0.225
42.75	-75.99	-10.86	0.00	-1026.2	0.00	1026.22	4893.21	2446.61	9891.54	4953.12	2.38	-0.542	0.000	0.223
45.00	-74.44	-10.81	0.00	-1001.7	0.00	1001.79	4858.32	2429.16	9721.41	4867.93	2.64	-0.573	0.000	0.221
49.00	-71.74	-10.66	0.00	-958.56	0.00	958.56	3959.59	1979.80	7922.06	3966.92	3.15	-0.628	0.000	0.260
50.00	-71.34	-10.68	0.00	-947.90	0.00	947.90	3948.01	1974.01	7862.92	3937.31	3.28	-0.642	0.000	0.259
55.00	-69.36	-10.55	0.00	-894.52	0.00	894.52	3889.26	1944.63	7568.72	3789.99	3.99	-0.719	0.000	0.254
60.00	-67.42	-10.42	0.00	-841.78	0.00	841.78	3829.07	1914.54	7277.15	3643.98	4.79	-0.796	0.000	0.249
65.00	-65.52	-10.28	0.00	-789.70	0.00	789.70	3767.45	1883.72	6988.40	3499.39	5.66	-0.874	0.000	0.243
70.00	-63.65	-10.14	0.00	-738.30	0.00	738.30	3704.39	1852.20	6702.67	3356.32	6.62	-0.952	0.000	0.237
75.00	-61.82	-10.00	0.00	-687.59	0.00	687.59	3639.90	1819.95	6420.16	3214.85	7.66	-1.031	0.000	0.231
80.00	-60.03	-9.84	0.00	-637.59	0.00	637.59	3573.98	1786.99	6141.06	3075.10	8.78	-1.110	0.000	0.224
82.50	-59.15	-9.77	0.00	-613.00	0.00	613.00	3540.48	1770.24	6002.85	3005.89	9.38	-1.151	0.000	0.221
85.00	-57.85	-9.69	0.00	-588.59	0.00	588.59	3506.62	1753.31	5865.57	2937.15	9.99	-1.191	0.000	0.217
87.75	-56.44	-9.59	0.00	-561.96	0.00	561.96	2761.71	1380.86	4636.01	2321.45	10.69	-1.235	0.000	0.263
90.00	-55.73	-9.55	0.00	-540.38	0.00	540.38	2740.07	1370.04	4543.51	2275.13	11.28	-1.271	0.000	0.258
95.00	-54.19	-9.41	0.00	-492.63	0.00	492.63	2690.94	1345.47	4339.45	2172.95	12.66	-1.361	0.000	0.247
100.00	-52.68	-9.27	0.00	-445.58	0.00	445.58	2640.38	1320.19	4137.62	2071.89	14.13	-1.449	0.000	0.235
105.00	-51.22	-9.12	0.00	-399.25	0.00	399.25	2588.38	1294.19	3938.22	1972.04	15.69	-1.535	0.000	0.222
110.00	-49.78	-8.97	0.00	-353.64	0.00	353.64	2534.95	1267.48	3741.44	1873.50	17.35	-1.619	0.000	0.208
115.00	-48.39	-8.82	0.00	-308.78	0.00	308.78	2480.09	1240.04	3547.48	1776.38	19.09	-1.700	0.000	0.193
120.00	-41.34	-7.48	0.00	-264.67	0.00	264.67	2423.79	1211.90	3356.53	1680.76	20.91	-1.777	0.000	0.175
123.25	-40.48	-7.37	0.00	-240.35	0.00	240.35	2386.43	1193.21	3234.12	1619.46	22.14	-1.825	0.000	0.165
125.00	-39.83	-7.31	0.00	-227.44	0.00	227.44	2366.06	1183.03	3168.79	1586.75	22.81	-1.851	0.000	0.160
127.50	-38.92	-7.22	0.00	-209.16	0.00	209.16	1766.99	883.49	2371.88	1187.70	23.79	-1.887	0.000	0.198
130.00	-38.34	-7.16	0.00	-191.11	0.00	191.11	1747.69	873.85	2306.16	1154.80	24.79	-1.921	0.000	0.187
135.00	-37.21	-7.00	0.00	-155.34	0.00	155.34	1708.02	854.01	2176.01	1089.62	26.84	-1.995	0.000	0.164
140.00	-36.11	-6.83	0.00	-120.36	0.00	120.36	1666.92	833.46	2047.71	1025.37	28.96	-2.061	0.000	0.139
145.00	-35.05	-6.66	0.00	-86.20	0.00	86.20	1624.39	812.19	1921.45	962.15	31.15	-2.116	0.000	0.111
147.00	-25.46	-5.00	0.00	-72.89	0.00	72.89	1606.97	803.49	1871.57	937.18	32.04	-2.134	0.000	0.094
150.00	-24.89	-4.90	0.00	-57.90	0.00	57.90	1580.42	790.21	1797.44	900.06	33.39	-2.159	0.000	0.080
155.00	-23.96	-4.72	0.00	-33.42	0.00	33.42	1535.02	767.51	1675.88	839.18	35.67	-2.189	0.000	0.055
157.00	-12.71	-2.49	0.00	-23.98	0.00	23.98	1516.46	758.23	1627.98	815.20	36.59	-2.198	0.000	0.038
160.00	-12.21	-2.38	0.00	-16.52	0.00	16.52	1488.18	744.09	1556.95	779.63	37.97	-2.208	0.000	0.029
165.00	-11.39	-2.21	0.00	-4.60	0.00	4.60	1439.00	719.50	1439.93	721.04	40.29	-2.217	0.000	0.014
167.00	-0.23	-0.08	0.00	-0.18	0.00	0.18	1413.06	706.53	1388.23	695.14	41.22	-2.218	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	41.68	-2.218	0.000	0.000

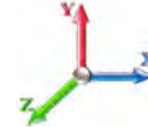
Seismic Segment Forces (Factored)

Structure: CT02217-S-SBA	Code: EIA/TIA-222-G	1/14/2022
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 23
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 (f1)	0.31	SA	0.03	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	23.62	
10.00		1346.6	0.01	0.05	0.03	34.04	
15.00		1320.6	0.02	0.06	0.04	38.92	
20.00		1294.7	0.03	0.07	0.04	41.08	
25.00		1268.7	0.04	0.07	0.04	41.90	
30.00		1242.7	0.06	0.07	0.04	42.14	
35.00		1216.7	0.08	0.07	0.04	42.18	
40.00		1190.7	0.11	0.07	0.04	42.17	
42.75	Bot - Section 2	643.83	0.12	0.07	0.03	23.07	
45.00		974.82	0.14	0.07	0.03	35.23	
49.00	Top - Section 1	1708.8	0.16	0.07	0.03	62.57	
50.00		196.72	0.17	0.07	0.03	7.22	
55.00		970.25	0.20	0.06	0.02	35.71	
60.00		947.97	0.24	0.06	0.02	34.18	
65.00		925.69	0.28	0.05	0.01	31.40	
70.00		903.42	0.33	0.04	0.01	26.94	
75.00		881.14	0.38	0.03	0.01	20.45	
80.00		858.86	0.43	0.01	0.01	11.93	
82.50	Bot - Section 3	421.08	0.46	0.00	0.01	3.50	
85.00		767.56	0.48	-0.01	0.01	1.78	
87.75	Top - Section 2	832.52	0.52	-0.02	0.01	-3.79	
90.00		308.29	0.54	-0.03	0.01	-3.14	
95.00		671.62	0.60	-0.05	0.02	-14.65	
100.00		653.06	0.67	-0.08	0.02	-20.17	
105.00		634.49	0.74	-0.10	0.04	-23.09	
110.00		615.93	0.81	-0.11	0.06	-23.35	
115.00		597.36	0.89	-0.12	0.08	-21.14	
120.00	Appurtenance(s)	2621.7	0.96	-0.12	0.11	-75.87	
123.25	Bot - Section 4	366.26	1.02	-0.11	0.14	-8.30	
125.00		351.80	1.05	-0.10	0.16	-6.55	
127.50	Top - Section 3	495.47	1.09	-0.08	0.18	-5.97	
130.00		218.61	1.13	-0.05	0.21	-0.99	
135.00		426.08	1.22	0.02	0.27	5.69	
140.00		411.22	1.31	0.14	0.35	14.42	
145.00		396.37	1.41	0.30	0.44	24.03	
147.00	Appurtenance(s)	3524.8	1.45	0.38	0.48	253.58	
150.00		227.13	1.51	0.52	0.55	20.47	
155.00		366.67	1.61	0.81	0.68	45.33	
157.00	Appurtenance(s)	3901.3	1.65	0.94	0.74	539.03	
160.00		209.31	1.71	1.18	0.84	33.75	
165.00		336.96	1.82	1.65	1.02	68.41	
167.00	Appurtenance(s)	3957.3	1.87	1.86	1.10	874.29	
168.00	Appurtenance(s)	99.42	1.89	1.98	1.14	22.88	
Totals:		42,677.7				2,294.9	Total Wind: 41,688.9

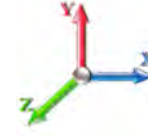
Seismic Base Shear is Less Than 50% of Wind Force - An Analysis is NOT Required

Calculated Forces

Structure: CT02217-S-SBA	Code: EIA/TIA-222-G	1/14/2022
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 + 1.0E										Iterations 23
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 (f1) 0.31		SA 0.03		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	-55.43	-2.51	0.00	-347.63	0.00	347.63	5501.01	2750.51	13262.9	6641.33	0.00	0.00	0.00	0.062
5.00	-53.73	-2.50	0.00	-335.09	0.00	335.09	5435.34	2717.67	12856.9	6438.04	0.01	-0.01	0.062	
10.00	-51.97	-2.48	0.00	-322.61	0.00	322.61	5368.23	2684.11	12453.6	6236.09	0.03	-0.03	0.061	
15.00	-50.24	-2.45	0.00	-310.23	0.00	310.23	5299.69	2649.84	12053.2	6035.57	0.07	-0.04	0.061	
20.00	-48.54	-2.42	0.00	-297.99	0.00	297.99	5229.71	2614.86	11655.8	5836.57	0.12	-0.06	0.060	
25.00	-46.88	-2.39	0.00	-285.90	0.00	285.90	5158.30	2579.15	11261.6	5639.20	0.18	-0.07	0.060	
30.00	-45.24	-2.35	0.00	-273.97	0.00	273.97	5085.46	2542.73	10870.9	5443.55	0.27	-0.09	0.059	
35.00	-43.64	-2.32	0.00	-262.20	0.00	262.20	5011.18	2505.59	10483.8	5249.72	0.37	-0.10	0.059	
40.00	-42.07	-2.28	0.00	-250.60	0.00	250.60	4935.46	2467.73	10100.6	5057.82	0.48	-0.12	0.058	
42.75	-41.21	-2.27	0.00	-244.32	0.00	244.32	4893.21	2446.61	9891.54	4953.12	0.55	-0.13	0.058	
45.00	-39.98	-2.23	0.00	-239.22	0.00	239.22	4858.32	2429.16	9721.41	4867.93	0.61	-0.13	0.057	
49.00	-37.81	-2.17	0.00	-230.28	0.00	230.28	3959.59	1979.80	7922.06	3966.92	0.73	-0.15	0.068	
50.00	-37.55	-2.17	0.00	-228.11	0.00	228.11	3948.01	1974.01	7862.92	3937.31	0.76	-0.15	0.067	
55.00	-36.24	-2.14	0.00	-217.25	0.00	217.25	3889.26	1944.63	7568.72	3789.99	0.93	-0.17	0.067	
60.00	-34.96	-2.12	0.00	-206.52	0.00	206.52	3829.07	1914.54	7277.15	3643.98	1.12	-0.19	0.066	
65.00	-33.71	-2.09	0.00	-195.94	0.00	195.94	3767.45	1883.72	6988.40	3499.39	1.32	-0.21	0.065	
70.00	-32.48	-2.07	0.00	-185.47	0.00	185.47	3704.39	1852.20	6702.67	3356.32	1.55	-0.23	0.064	
75.00	-31.28	-2.06	0.00	-175.10	0.00	175.10	3639.90	1819.95	6420.16	3214.85	1.80	-0.25	0.063	
80.00	-30.10	-2.05	0.00	-164.81	0.00	164.81	3573.98	1786.99	6141.06	3075.10	2.07	-0.27	0.062	
82.50	-29.53	-2.05	0.00	-159.69	0.00	159.69	3540.48	1770.24	6002.85	3005.89	2.21	-0.28	0.061	
85.00	-28.53	-2.05	0.00	-154.56	0.00	154.56	3506.62	1753.31	5865.57	2937.15	2.36	-0.29	0.061	
87.75	-27.46	-2.05	0.00	-148.93	0.00	148.93	2761.71	1380.86	4636.01	2321.45	2.53	-0.30	0.074	
90.00	-27.02	-2.05	0.00	-144.33	0.00	144.33	2740.07	1370.04	4543.51	2275.13	2.67	-0.31	0.073	
95.00	-26.07	-2.06	0.00	-134.06	0.00	134.06	2690.94	1345.47	4339.45	2172.95	3.01	-0.33	0.071	
100.00	-25.15	-2.06	0.00	-123.77	0.00	123.77	2640.38	1320.19	4137.62	2071.89	3.37	-0.36	0.069	
105.00	-24.24	-2.07	0.00	-113.45	0.00	113.45	2588.38	1294.19	3938.22	1972.04	3.76	-0.38	0.067	
110.00	-23.36	-2.07	0.00	-103.11	0.00	103.11	2534.95	1267.48	3741.44	1873.50	4.17	-0.41	0.064	
115.00	-22.50	-2.07	0.00	-92.75	0.00	92.75	2480.09	1240.04	3547.48	1776.38	4.61	-0.43	0.061	
120.00	-19.21	-2.06	0.00	-82.38	0.00	82.38	2423.79	1211.90	3356.53	1680.76	5.07	-0.45	0.057	
123.25	-18.68	-2.06	0.00	-75.70	0.00	75.70	2386.43	1193.21	3234.12	1619.46	5.38	-0.47	0.055	
125.00	-18.21	-2.05	0.00	-72.10	0.00	72.10	2366.06	1183.03	3168.79	1586.75	5.56	-0.48	0.053	
127.50	-17.55	-2.05	0.00	-66.96	0.00	66.96	1766.99	883.49	2371.88	1187.70	5.81	-0.49	0.066	
130.00	-17.22	-2.06	0.00	-61.83	0.00	61.83	1747.69	873.85	2306.16	1154.80	6.07	-0.50	0.063	
135.00	-16.58	-2.05	0.00	-51.55	0.00	51.55	1708.02	854.01	2176.01	1089.62	6.60	-0.52	0.057	
140.00	-15.95	-2.04	0.00	-41.30	0.00	41.30	1666.92	833.46	2047.71	1025.37	7.16	-0.55	0.050	
145.00	-15.35	-2.01	0.00	-31.12	0.00	31.12	1624.39	812.19	1921.45	962.15	7.75	-0.56	0.042	
147.00	-11.07	-1.72	0.00	-27.10	0.00	27.10	1606.97	803.49	1871.57	937.18	7.98	-0.57	0.036	
150.00	-10.75	-1.69	0.00	-21.96	0.00	21.96	1580.42	790.21	1797.44	900.06	8.35	-0.58	0.031	
155.00	-10.25	-1.64	0.00	-13.49	0.00	13.49	1535.02	767.51	1675.88	839.18	8.96	-0.59	0.023	
157.00	-5.54	-1.06	0.00	-10.20	0.00	10.20	1516.46	758.23	1627.98	815.20	9.21	-0.60	0.016	
160.00	-5.28	-1.02	0.00	-7.03	0.00	7.03	1488.18	744.09	1556.95	779.63	9.59	-0.60	0.013	
165.00	-4.86	-0.95	0.00	-1.92	0.00	1.92	1439.00	719.50	1439.93	721.04	10.22	-0.60	0.006	
167.00	-0.12	-0.02	0.00	-0.02	0.00	0.02	1413.06	706.53	1388.23	695.14	10.47	-0.60	0.000	
168.00	0.00	-0.02	0.00	0.00	0.00	0.00	1400.09	700.04	1362.73	682.38	10.60	-0.60	0.000	

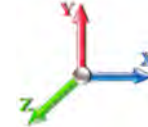
Seismic Segment Forces (Factored)

Structure: CT02217-S-SBA	Code: EIA/TIA-222-G	1/14/2022
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 23
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 (f1)	0.31	SA	0.03	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	23.62	
10.00		1346.6	0.01	0.05	0.03	34.04	
15.00		1320.6	0.02	0.06	0.04	38.92	
20.00		1294.7	0.03	0.07	0.04	41.08	
25.00		1268.7	0.04	0.07	0.04	41.90	
30.00		1242.7	0.06	0.07	0.04	42.14	
35.00		1216.7	0.08	0.07	0.04	42.18	
40.00		1190.7	0.11	0.07	0.04	42.17	
42.75	Bot - Section 2	643.83	0.12	0.07	0.03	23.07	
45.00		974.82	0.14	0.07	0.03	35.23	
49.00	Top - Section 1	1708.8	0.16	0.07	0.03	62.57	
50.00		196.72	0.17	0.07	0.03	7.22	
55.00		970.25	0.20	0.06	0.02	35.71	
60.00		947.97	0.24	0.06	0.02	34.18	
65.00		925.69	0.28	0.05	0.01	31.40	
70.00		903.42	0.33	0.04	0.01	26.94	
75.00		881.14	0.38	0.03	0.01	20.45	
80.00		858.86	0.43	0.01	0.01	11.93	
82.50	Bot - Section 3	421.08	0.46	0.00	0.01	3.50	
85.00		767.56	0.48	-0.01	0.01	1.78	
87.75	Top - Section 2	832.52	0.52	-0.02	0.01	-3.79	
90.00		308.29	0.54	-0.03	0.01	-3.14	
95.00		671.62	0.60	-0.05	0.02	-14.65	
100.00		653.06	0.67	-0.08	0.02	-20.17	
105.00		634.49	0.74	-0.10	0.04	-23.09	
110.00		615.93	0.81	-0.11	0.06	-23.35	
115.00		597.36	0.89	-0.12	0.08	-21.14	
120.00	Appurtenance(s)	2621.7	0.96	-0.12	0.11	-75.87	
123.25	Bot - Section 4	366.26	1.02	-0.11	0.14	-8.30	
125.00		351.80	1.05	-0.10	0.16	-6.55	
127.50	Top - Section 3	495.47	1.09	-0.08	0.18	-5.97	
130.00		218.61	1.13	-0.05	0.21	-0.99	
135.00		426.08	1.22	0.02	0.27	5.69	
140.00		411.22	1.31	0.14	0.35	14.42	
145.00		396.37	1.41	0.30	0.44	24.03	
147.00	Appurtenance(s)	3524.8	1.45	0.38	0.48	253.58	
150.00		227.13	1.51	0.52	0.55	20.47	
155.00		366.67	1.61	0.81	0.68	45.33	
157.00	Appurtenance(s)	3901.3	1.65	0.94	0.74	539.03	
160.00		209.31	1.71	1.18	0.84	33.75	
165.00		336.96	1.82	1.65	1.02	68.41	
167.00	Appurtenance(s)	3957.3	1.87	1.86	1.10	874.29	
168.00	Appurtenance(s)	99.42	1.89	1.98	1.14	22.88	
Totals:		42,677.7				2,294.9	Total Wind: 41,688.9

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

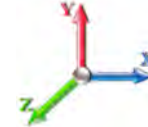
Calculated Forces

Structure: CT02217-S-SBA	Code: EIA/TIA-222-G	1/14/2022
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 23
Gust Response Factor 1.10	Sds 0.18	Ss 0.17
Dead Load Factor 0.90	Seismic Load Factor 1.00	S1 0.06
Wind Load Factor 0.00	Structure Frequency (f1) 0.31	SA 0.03
	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	-41.57	-2.51	0.00	-342.72	0.00	342.72	5501.01	2750.51	13262.9	6641.33	0.00	0.00	0.00	0.059
5.00	-40.29	-2.49	0.00	-330.19	0.00	330.19	5435.34	2717.67	12856.9	6438.04	0.01	-0.01	0.059	
10.00	-38.97	-2.47	0.00	-317.73	0.00	317.73	5368.23	2684.11	12453.6	6236.09	0.03	-0.03	0.058	
15.00	-37.68	-2.44	0.00	-305.39	0.00	305.39	5299.69	2649.84	12053.2	6035.57	0.06	-0.04	0.058	
20.00	-36.41	-2.40	0.00	-293.21	0.00	293.21	5229.71	2614.86	11655.8	5836.57	0.12	-0.06	0.057	
25.00	-35.16	-2.37	0.00	-281.19	0.00	281.19	5158.30	2579.15	11261.6	5639.20	0.18	-0.07	0.057	
30.00	-33.93	-2.33	0.00	-269.34	0.00	269.34	5085.46	2542.73	10870.9	5443.55	0.26	-0.09	0.056	
35.00	-32.73	-2.30	0.00	-257.67	0.00	257.67	5011.18	2505.59	10483.8	5249.72	0.36	-0.10	0.056	
40.00	-31.55	-2.26	0.00	-246.17	0.00	246.17	4935.46	2467.73	10100.6	5057.82	0.47	-0.12	0.055	
42.75	-30.91	-2.24	0.00	-239.96	0.00	239.96	4893.21	2446.61	9891.54	4953.12	0.54	-0.12	0.055	
45.00	-29.98	-2.21	0.00	-234.91	0.00	234.91	4858.32	2429.16	9721.41	4867.93	0.60	-0.13	0.054	
49.00	-28.36	-2.15	0.00	-226.08	0.00	226.08	3959.59	1979.80	7922.06	3966.92	0.72	-0.14	0.064	
50.00	-28.16	-2.14	0.00	-223.93	0.00	223.93	3948.01	1974.01	7862.92	3937.31	0.75	-0.15	0.064	
55.00	-27.18	-2.11	0.00	-213.21	0.00	213.21	3889.26	1944.63	7568.72	3789.99	0.91	-0.17	0.063	
60.00	-26.22	-2.09	0.00	-202.63	0.00	202.63	3829.07	1914.54	7277.15	3643.98	1.10	-0.18	0.062	
65.00	-25.28	-2.06	0.00	-192.20	0.00	192.20	3767.45	1883.72	6988.40	3499.39	1.30	-0.20	0.062	
70.00	-24.36	-2.04	0.00	-181.90	0.00	181.90	3704.39	1852.20	6702.67	3356.32	1.53	-0.22	0.061	
75.00	-23.46	-2.02	0.00	-171.71	0.00	171.71	3639.90	1819.95	6420.16	3214.85	1.77	-0.24	0.060	
80.00	-22.58	-2.01	0.00	-161.60	0.00	161.60	3573.98	1786.99	6141.06	3075.10	2.03	-0.26	0.059	
82.50	-22.14	-2.01	0.00	-156.57	0.00	156.57	3540.48	1770.24	6002.85	3005.89	2.17	-0.27	0.058	
85.00	-21.40	-2.01	0.00	-151.55	0.00	151.55	3506.62	1753.31	5865.57	2937.15	2.32	-0.28	0.058	
87.75	-20.59	-2.01	0.00	-146.02	0.00	146.02	2761.71	1380.86	4636.01	2321.45	2.49	-0.29	0.070	
90.00	-20.26	-2.01	0.00	-141.50	0.00	141.50	2740.07	1370.04	4543.51	2275.13	2.63	-0.30	0.070	
95.00	-19.55	-2.02	0.00	-131.44	0.00	131.44	2690.94	1345.47	4339.45	2172.95	2.96	-0.33	0.068	
100.00	-18.86	-2.02	0.00	-121.35	0.00	121.35	2640.38	1320.19	4137.62	2071.89	3.31	-0.35	0.066	
105.00	-18.18	-2.02	0.00	-111.25	0.00	111.25	2588.38	1294.19	3938.22	1972.04	3.69	-0.37	0.063	
110.00	-17.51	-2.03	0.00	-101.13	0.00	101.13	2534.95	1267.48	3741.44	1873.50	4.10	-0.40	0.061	
115.00	-16.87	-2.03	0.00	-90.99	0.00	90.99	2480.09	1240.04	3547.48	1776.38	4.53	-0.42	0.058	
120.00	-14.40	-2.02	0.00	-80.85	0.00	80.85	2423.79	1211.90	3356.53	1680.76	4.98	-0.44	0.054	
123.25	-14.01	-2.01	0.00	-74.30	0.00	74.30	2386.43	1193.21	3234.12	1619.46	5.29	-0.46	0.052	
125.00	-13.66	-2.01	0.00	-70.77	0.00	70.77	2366.06	1183.03	3168.79	1586.75	5.46	-0.47	0.050	
127.50	-13.16	-2.01	0.00	-65.74	0.00	65.74	1766.99	883.49	2371.88	1187.70	5.71	-0.48	0.063	
130.00	-12.91	-2.01	0.00	-60.70	0.00	60.70	1747.69	873.85	2306.16	1154.80	5.96	-0.49	0.060	
135.00	-12.43	-2.01	0.00	-50.63	0.00	50.63	1708.02	854.01	2176.01	1089.62	6.49	-0.51	0.054	
140.00	-11.96	-2.00	0.00	-40.58	0.00	40.58	1666.92	833.46	2047.71	1025.37	7.04	-0.54	0.047	
145.00	-11.51	-1.97	0.00	-30.60	0.00	30.60	1624.39	812.19	1921.45	962.15	7.61	-0.55	0.039	
147.00	-8.30	-1.69	0.00	-26.67	0.00	26.67	1606.97	803.49	1871.57	937.18	7.84	-0.56	0.034	
150.00	-8.06	-1.66	0.00	-21.61	0.00	21.61	1580.42	790.21	1797.44	900.06	8.20	-0.57	0.029	
155.00	-7.68	-1.62	0.00	-13.28	0.00	13.28	1535.02	767.51	1675.88	839.18	8.80	-0.58	0.021	
157.00	-4.16	-1.04	0.00	-10.05	0.00	10.05	1516.46	758.23	1627.98	815.20	9.05	-0.59	0.015	
160.00	-3.96	-1.01	0.00	-6.93	0.00	6.93	1488.18	744.09	1556.95	779.63	9.42	-0.59	0.012	
165.00	-3.65	-0.93	0.00	-1.89	0.00	1.89	1439.00	719.50	1439.93	721.04	10.04	-0.59	0.005	
167.00	-0.09	-0.02	0.00	-0.02	0.00	0.02	1413.06	706.53	1388.23	695.14	10.28	-0.59	0.000	
168.00	0.00	-0.02	0.00	0.00	0.00	0.00	1400.09	700.04	1362.73	682.38	10.41	-0.59	0.000	

Wind Loading - Shaft

Structure: CT02217-S-SBA	Code: EIA/TIA-222-G	1/14/2022
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

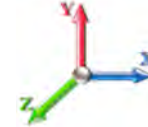


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Load Case: 1.0D + 1.0W 60 mph Wind

Iterations 24

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	Appurtenance(s)	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

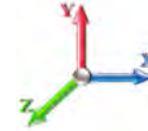
Structure: CT02217-S-SBA	Code: EIA/TIA-222-G	1/14/2022
Site Name: Pomfret School	Exposure: C	
Height: 168.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00
Wind Load Factor 1.00



Iterations 24

No.	Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	Orient Factor x Ka	Ka	Total CaAa (sf)	Dead Load (lb)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)	
1	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	ALU TD-RRH8x20-25	3	12.344	13.578	0.54	0.80	6.51	210.00	0.000	0.000	88.43	0.00	0.00	
3	167.00	RFS APXVTM14-C-I20	3	12.344	13.578	0.62	0.80	11.87	168.00	0.000	0.000	161.16	0.00	0.00	
4	167.00	Commscope	3	12.344	13.578	0.58	0.80	21.50	254.10	0.000	0.000	291.90	0.00	0.00	
5	167.00	ALU 800 Mhz RRU's	6	12.344	13.578	0.54	0.80	6.85	318.00	0.000	0.000	93.01	0.00	0.00	
6	167.00	ALU 1900 Mhz RRU's	3	12.344	13.578	0.54	0.80	3.83	180.00	0.000	0.000	51.97	0.00	0.00	
7	167.00	V-Brace Kit (Site Pro	1	12.344	13.578	0.75	0.75	5.03	230.00	0.000	0.000	68.23	0.00	0.00	
8	167.00	Pipe2.0STD x 15'	1	12.344	13.578	0.75	0.75	5.06	261.72	0.000	0.000	68.74	0.00	0.00	
9	167.00	Pipe2.0STD Mount Pipes	6	12.344	13.578	0.64	0.80	5.49	240.00	0.000	0.000	74.56	0.00	0.00	
10	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	
11	167.00	Reinforcement Kit (Site	1	12.344	13.578	0.75	0.75	7.13	464.91	0.000	0.000	96.75	0.00	0.00	
12	157.00	Raycap	1	12.185	13.403	0.50	0.75	2.04	32.00	0.000	0.000	27.34	0.00	0.00	
13	157.00	Samsung B2/B66A RRU's	3	12.185	13.403	0.50	0.75	2.83	253.20	0.000	0.000	37.99	0.00	0.00	
14	157.00	Samsung B5/B13 RRU's	3	12.185	13.403	0.50	0.75	2.83	210.90	0.000	0.000	37.99	0.00	0.00	
15	157.00	Monopole Collar Mount	1	12.185	13.403	1.00	1.00	2.50	150.00	0.000	0.000	33.51	0.00	0.00	
16	157.00	JMA 91900314-02	3	12.185	13.403	0.38	0.75	0.90	84.00	0.000	0.000	12.06	0.00	0.00	
17	157.00	Platform w/ Hand Rails	1	12.185	13.403	1.00	1.00	40.00	2000.00	0.000	0.000	536.12	0.00	0.00	
18	157.00	Kicker Kit	1	12.185	13.403	1.00	1.00	9.50	291.00	0.000	0.000	127.33	0.00	0.00	
19	157.00	Samsung MT6407-77A	3	12.185	13.403	0.52	0.75	7.40	261.30	0.000	0.000	99.22	0.00	0.00	
20	157.00	Commscope	3	12.185	13.403	0.62	0.75	15.26	116.40	0.000	0.000	204.50	0.00	0.00	
21	157.00	JMA Wireless	6	12.185	13.403	0.65	0.75	38.64	360.00	0.000	0.000	517.91	0.00	0.00	
22	147.00	RFS	3	12.017	13.219	0.54	0.75	32.79	384.00	0.000	0.000	433.42	0.00	0.00	
23	147.00	AIR6449 B41	3	12.017	13.219	0.53	0.75	9.03	309.00	0.000	0.000	119.31	0.00	0.00	
24	147.00	VV-65A-R1	3	12.017	13.219	0.55	0.75	13.15	71.43	0.000	0.000	173.87	0.00	0.00	
25	147.00	4449 B71 + B85	3	12.017	13.219	0.50	0.75	2.97	225.00	0.000	0.000	39.26	0.00	0.00	
26	147.00	4460 B25 + B66	3	12.017	13.219	0.50	0.75	4.30	312.00	0.000	0.000	56.79	0.00	0.00	
27	147.00	Ericsson KRY 112 489/2	3	12.017	13.219	0.45	0.75	0.76	46.20	0.000	0.000	9.99	0.00	0.00	
28	147.00	Allen Telecom	3	12.017	13.219	0.45	0.75	0.73	52.50	0.000	0.000	9.64	0.00	0.00	
29	147.00	Kathrein 782 11056 Bias	3	12.017	13.219	0.48	0.80	0.22	5.40	0.000	0.000	2.86	0.00	0.00	
30	147.00	Low Profile Platform	1	12.017	13.219	1.00	1.00	22.00	1500.00	0.000	0.000	290.81	0.00	0.00	
31	147.00	Reinforcement Kit (Site	1	12.017	13.219	0.75	0.75	7.13	464.91	0.000	0.000	94.18	0.00	0.00	
32	120.00	Platform w/HRK	1	11.514	12.666	1.00	1.00	33.60	1411.00	0.000	0.000	425.57	0.00	0.00	
33	120.00	Raycap	1	11.514	12.666	0.50	0.75	1.01	21.85	0.000	0.000	12.79	0.00	0.00	
34	120.00	Fujitsu TA08025-B604	3	11.514	12.666	0.50	0.75	2.95	191.79	0.000	0.000	37.42	0.00	0.00	
35	120.00	Fujitsu TA08025-B605	3	11.514	12.666	0.50	0.75	2.95	224.85	0.000	0.000	37.42	0.00	0.00	
36	120.00	JMA Wireless	3	11.514	12.666	0.55	0.75	20.80	193.50	0.000	0.000	263.40	0.00	0.00	
Totals:									13,033.96						4,948.48

Total Applied Force Summary

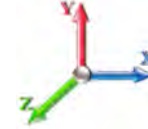
Structure: CT02217-S-SBA	Code: EIA/TIA-222-G	1/14/2022
Site Name: Pomfret School	Exposure: C	
Height: 168.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00
Wind Load Factor 1.00



Iterations 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		131.79	1420.27	0.00	0.00
10.00		129.31	1465.68	0.00	0.00
15.00		126.84	1439.69	0.00	0.00
20.00		131.95	1413.70	0.00	0.00
25.00		135.54	1387.71	0.00	0.00
30.00		137.98	1361.72	0.00	0.00
35.00		139.58	1335.73	0.00	0.00
40.00		140.52	1309.74	0.00	0.00
42.75		77.06	709.28	0.00	0.00
45.00		63.99	1028.37	0.00	0.00
49.00		114.23	1804.09	0.00	0.00
50.00		28.36	220.52	0.00	0.00
55.00		142.72	1089.25	0.00	0.00
60.00		142.05	1066.97	0.00	0.00
65.00		141.10	1044.69	0.00	0.00
70.00		139.89	1022.42	0.00	0.00
75.00		138.47	1000.14	0.00	0.00
80.00		136.85	977.86	0.00	0.00
82.50		67.54	480.58	0.00	0.00
85.00		68.09	827.06	0.00	0.00
87.75		74.36	897.97	0.00	0.00
90.00		60.36	361.84	0.00	0.00
95.00		133.01	790.62	0.00	0.00
100.00		130.77	772.06	0.00	0.00
105.00		128.40	753.49	0.00	0.00
110.00		125.90	734.93	0.00	0.00
115.00		123.28	716.36	0.00	0.00
120.00	(11) attachments	897.16	2740.79	0.00	0.00
123.25		76.74	437.70	0.00	0.00
125.00		41.38	390.27	0.00	0.00
127.50		58.54	550.42	0.00	0.00
130.00		57.81	273.56	0.00	0.00
135.00		113.59	535.98	0.00	0.00
140.00		110.50	521.12	0.00	0.00
145.00		107.33	506.27	0.00	0.00
147.00	(26) attachments	1272.07	3568.79	0.00	0.00
150.00		61.97	260.37	0.00	0.00
155.00		100.76	422.07	0.00	0.00
157.00	(25) attachments	1673.24	3923.47	0.00	0.00
160.00		57.93	217.23	0.00	0.00
165.00		93.90	350.16	0.00	0.00
167.00	(28) attachments	1329.97	3962.64	0.00	0.00
168.00	(1) attachments	32.35	99.42	0.00	35.80
Totals:		9,195.17	46,192.98	0.00	35.80

Calculated Forces

Structure: CT02217-S-SBA	Code: EIA/TIA-222-G	1/14/2022
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

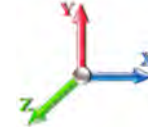


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Load Case: 1.0D + 1.0W 60 mph Wind

Iterations 24

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	-46.19	-9.21	0.00	-1142.1	0.00	1142.19	5501.01	2750.51	13262.9	6641.33	0.00	0.000	0.000	0.180
5.00	-44.76	-9.12	0.00	-1096.1	0.00	1096.12	5435.34	2717.67	12856.9	6438.04	0.02	-0.045	0.000	0.179
10.00	-43.29	-9.02	0.00	-1050.5	0.00	1050.54	5368.23	2684.11	12453.6	6236.09	0.10	-0.091	0.000	0.177
15.00	-41.84	-8.92	0.00	-1005.4	0.00	1005.44	5299.69	2649.84	12053.2	6035.57	0.22	-0.137	0.000	0.174
20.00	-40.42	-8.82	0.00	-960.82	0.00	960.82	5229.71	2614.86	11655.8	5836.57	0.38	-0.184	0.000	0.172
25.00	-39.03	-8.71	0.00	-916.71	0.00	916.71	5158.30	2579.15	11261.6	5639.20	0.60	-0.232	0.000	0.170
30.00	-37.66	-8.60	0.00	-873.14	0.00	873.14	5085.46	2542.73	10870.9	5443.55	0.87	-0.280	0.000	0.168
35.00	-36.32	-8.49	0.00	-830.14	0.00	830.14	5011.18	2505.59	10483.8	5249.72	1.19	-0.329	0.000	0.165
40.00	-35.00	-8.36	0.00	-787.70	0.00	787.70	4935.46	2467.73	10100.6	5057.82	1.56	-0.379	0.000	0.163
42.75	-34.29	-8.29	0.00	-764.71	0.00	764.71	4893.21	2446.61	9891.54	4953.12	1.79	-0.406	0.000	0.161
45.00	-33.26	-8.24	0.00	-746.05	0.00	746.05	4858.32	2429.16	9721.41	4867.93	1.99	-0.430	0.000	0.160
49.00	-31.45	-8.13	0.00	-713.08	0.00	713.08	3959.59	1979.80	7922.06	3966.92	2.36	-0.470	0.000	0.188
50.00	-31.23	-8.12	0.00	-704.95	0.00	704.95	3948.01	1974.01	7862.92	3937.31	2.46	-0.481	0.000	0.187
55.00	-30.13	-7.99	0.00	-664.38	0.00	664.38	3889.26	1944.63	7568.72	3789.99	3.00	-0.538	0.000	0.183
60.00	-29.06	-7.87	0.00	-624.41	0.00	624.41	3829.07	1914.54	7277.15	3643.98	3.59	-0.595	0.000	0.179
65.00	-28.01	-7.75	0.00	-585.06	0.00	585.06	3767.45	1883.72	6988.40	3499.39	4.25	-0.653	0.000	0.175
70.00	-26.98	-7.62	0.00	-546.33	0.00	546.33	3704.39	1852.20	6702.67	3356.32	4.96	-0.711	0.000	0.170
75.00	-25.97	-7.50	0.00	-508.23	0.00	508.23	3639.90	1819.95	6420.16	3214.85	5.74	-0.769	0.000	0.165
80.00	-24.99	-7.36	0.00	-470.75	0.00	470.75	3573.98	1786.99	6141.06	3075.10	6.57	-0.828	0.000	0.160
82.50	-24.51	-7.30	0.00	-452.33	0.00	452.33	3540.48	1770.24	6002.85	3005.89	7.01	-0.857	0.000	0.157
85.00	-23.68	-7.24	0.00	-434.08	0.00	434.08	3506.62	1753.31	5865.57	2937.15	7.47	-0.887	0.000	0.155
87.75	-22.78	-7.16	0.00	-414.18	0.00	414.18	2761.71	1380.86	4636.01	2321.45	7.99	-0.920	0.000	0.187
90.00	-22.41	-7.11	0.00	-398.07	0.00	398.07	2740.07	1370.04	4543.51	2275.13	8.43	-0.946	0.000	0.183
95.00	-21.61	-6.99	0.00	-362.52	0.00	362.52	2690.94	1345.47	4339.45	2172.95	9.46	-1.012	0.000	0.175
100.00	-20.84	-6.87	0.00	-327.58	0.00	327.58	2640.38	1320.19	4137.62	2071.89	10.55	-1.077	0.000	0.166
105.00	-20.08	-6.75	0.00	-293.24	0.00	293.24	2588.38	1294.19	3938.22	1972.04	11.72	-1.140	0.000	0.156
110.00	-19.34	-6.63	0.00	-259.51	0.00	259.51	2534.95	1267.48	3741.44	1873.50	12.94	-1.202	0.000	0.146
115.00	-18.62	-6.51	0.00	-226.38	0.00	226.38	2480.09	1240.04	3547.48	1776.38	14.24	-1.261	0.000	0.135
120.00	-15.89	-5.56	0.00	-193.85	0.00	193.85	2423.79	1211.90	3356.53	1680.76	15.59	-1.318	0.000	0.122
123.25	-15.46	-5.48	0.00	-175.78	0.00	175.78	2386.43	1193.21	3234.12	1619.46	16.50	-1.353	0.000	0.115
125.00	-15.06	-5.44	0.00	-166.19	0.00	166.19	2366.06	1183.03	3168.79	1586.75	17.00	-1.372	0.000	0.111
127.50	-14.51	-5.37	0.00	-152.61	0.00	152.61	1766.99	883.49	2371.88	1187.70	17.72	-1.398	0.000	0.137
130.00	-14.24	-5.32	0.00	-139.18	0.00	139.18	1747.69	873.85	2306.16	1154.80	18.46	-1.423	0.000	0.129
135.00	-13.70	-5.20	0.00	-112.60	0.00	112.60	1708.02	854.01	2176.01	1089.62	19.98	-1.477	0.000	0.111
140.00	-13.18	-5.09	0.00	-86.60	0.00	86.60	1666.92	833.46	2047.71	1025.37	21.56	-1.525	0.000	0.092
145.00	-12.67	-4.97	0.00	-61.17	0.00	61.17	1624.39	812.19	1921.45	962.15	23.17	-1.564	0.000	0.071
147.00	-9.14	-3.60	0.00	-51.22	0.00	51.22	1606.97	803.49	1871.57	937.18	23.83	-1.577	0.000	0.060
150.00	-8.88	-3.54	0.00	-40.41	0.00	40.41	1580.42	790.21	1797.44	900.06	24.83	-1.594	0.000	0.051
155.00	-8.46	-3.43	0.00	-22.72	0.00	22.72	1535.02	767.51	1675.88	839.18	26.51	-1.615	0.000	0.033
157.00	-4.58	-1.64	0.00	-15.87	0.00	15.87	1516.46	758.23	1627.98	815.20	27.19	-1.621	0.000	0.022
160.00	-4.37	-1.58	0.00	-10.93	0.00	10.93	1488.18	744.09	1556.95	779.63	28.21	-1.627	0.000	0.017
165.00	-4.02	-1.48	0.00	-3.03	0.00	3.03	1439.00	719.50	1439.93	721.04	29.92	-1.633	0.000	0.007
167.00	-0.10	-0.04	0.00	-0.07	0.00	0.07	1413.06	706.53	1388.23	695.14	30.60	-1.634	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	30.94	-1.634	0.000	0.000

Final Analysis Summary

Structure: CT02217-S-SBA	Code: EIA/TIA-222-G	1/14/2022
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: 29



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	41.8	0.00	55.35	0.00	0.00	5211.37
0.9D + 1.6W 101 mph Wind	41.8	0.00	41.50	0.00	0.00	5144.35
1.2D + 1.0Di + 1.0Wi 50 mph Wind	11.7	0.00	95.97	0.00	0.00	1513.47
1.2D + 1.0E	2.5	0.00	55.43	0.00	0.00	347.63
0.9D + 1.0E	2.5	0.00	41.57	0.00	0.00	342.72
1.0D + 1.0W 60 mph Wind	9.2	0.00	46.19	0.00	0.00	1142.19

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	-36.44	-37.07	0.00	-3259.2	0.00	-3259.2	3959.59	1979.8	7922.06	3966.92	49.00	0.831
0.9D + 1.6W 101 mph Wind	-27.01	-36.70	0.00	-3202.7	0.00	-3202.7	3959.59	1979.8	7922.06	3966.92	49.00	0.815
1.2D + 1.0Di + 1.0Wi 50 mph Wind	-56.44	-9.59	0.00	-561.96	0.00	-561.96	2761.71	1380.8	4636.01	2321.45	87.75	0.263
1.2D + 1.0E	-27.46	-2.05	0.00	-148.93	0.00	-148.93	2761.71	1380.8	4636.01	2321.45	87.75	0.074
0.9D + 1.0E	-20.59	-2.01	0.00	-146.02	0.00	-146.02	2761.71	1380.8	4636.01	2321.45	87.75	0.070
1.0D + 1.0W 60 mph Wind	-31.45	-8.13	0.00	-713.08	0.00	-713.08	3959.59	1979.8	7922.06	3966.92	49.00	0.188

Base Plate Summary

Structure: CT02217-S-SB	Code: EIA/TIA-222-G	1/14/2022
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: 30

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 (1.2D + 1.6W)	Clip Length (in): 13.00	Yield (ksi): 75.00
Moment (kip-ft): 5211.37	Effective Len (in): 9.15	Ultimate (ksi): 100.00
Axial (kip): 55.35	Moment (kip-in): 671.32	Arrangement: Clustered
Shear (kip): 41.79	Allow Stress (ksi): 67.50	Cluster Dist (in): 6.00
	Applied Stress (ksi): 48.60	Start Angle (deg): 45.00
	Stress Ratio: 0.72	Compression
		Force (kip): 194.30
		Allowable (kip): 260.00
		Ratio: 0.76
		Tension
		Force (kip): 184.71
		Allowable (kip): 260.00
		Ratio: 0.73



Monopole Mat Foundation Design

Date

1/14/2022

Customer Name:	T-Mobile	TIA Standard:	EIA-222-G
Site Name:		Structure Height (Ft.):	168
Site Number:	CT02217-S-SBA	Engineer Name:	J. Tibbetts
Engr. Number:	122146	Engineer Login ID:	

Foundation Info Obtained from:

Drawings/Calculations
Monopole
Analysis

Structure Type:

Analysis or Design?

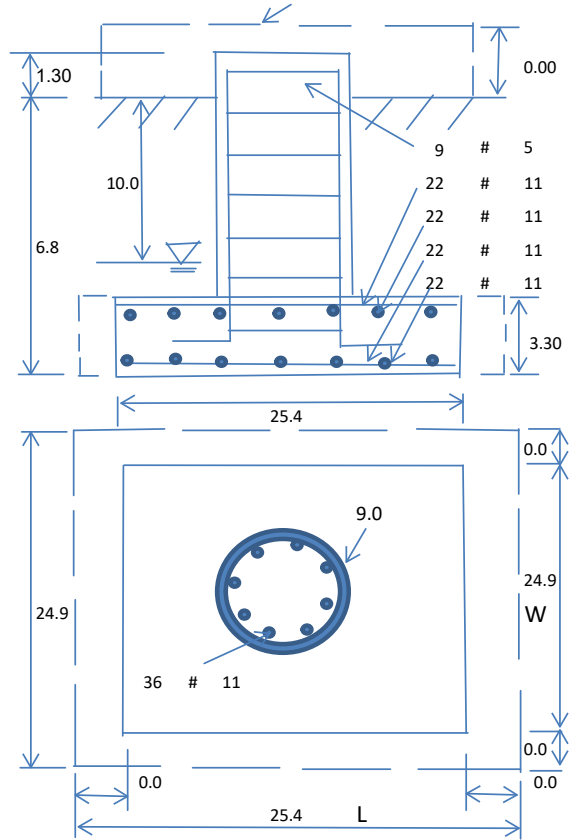
Base Reactions (Factored):

Axial Load (Kips):	55.4	Shear Force (Kips):	41.8
Uplift Force (Kips):	0.0	Moment (Kips-ft):	5211.4

Allowable overstress %: 5.0%

Foundation Geometries:

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



Material Properties and Rebar 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
---------------------------	----	---------------------------	----

Rebar at the top of the concrete pad:

Qty. of Rebar in Pad (L):	22	Qty. of Rebar in Pad (W):	22
---------------------------	----	---------------------------	----

Apply 1.35 factor for e/w Per G: 1.35

Soil Design Parameters:

Soil Unit Weight (pcf):	120.0	Soil Buoyant Weight:	50.0	Pcf	Angle from Top of Pad:	30
Water Table B.G.S. (ft):	10.0	Unit Weight of Water:	62.4	pcf	Angle from Bottm of Pad:	25
Ultimate Bearing Pressure (psf):	30000	Ultimate Skin Friction:	0	Psf	Angle from Bottm of Pad:	25
Consider Friction for O.T.M. (Y/N):	No	Consider Friction for bearing (Y/N):	Yes		Reduction factor on the maximum soil bearing pressure:	1.00
Consider soil hor. resist. for OTM.:	Yes					

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):	653.19

Check Soil Capacities:

Calculated Maxium Net Soil Pressure under the base (psf):	3883	< Allowable Factored Soil Bearing (psf):	22500	0.17	OK!
Allowable Foundation Overturning Resistance (kips-ft.):	7387.9	> Design Factored Momont (kips-ft):	5322	0.72	OK!
Factor of Safety Against Overturning (O. R. Moment/Design Moment):	1.39				OK!

Load/
Capacity
Ratio

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-F	5412.0	0.45	OK!
Calculated Shear Capacity (Kips):	1136.9	> Design Factored Shear (Kips):	41.8	0.04	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):	55.4	0.00	OK!
Moment & Axial Strength Combination:	0.45	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):	284.7	0.29	OK!
One-Way Design Shear Capacity (W-Direction, Kips):	961.3	> One-Way Factored Shear (W-D., Kips)	271.4	0.28	OK!
One-Way Design Shear Capacity (Corner-Corner. Kips):	807.5	> One-Way Factored Shear (C-C, Kips):	275.0	0.34	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):	1396.5	0.27	OK!
Lower Steel Pad Moment Capacity (W-Direction. Kips-ft):	5084.0	> Moment at Bottom (W-Dir. K-Ft):	1396.5	0.27	OK!
Lower Steel Pad Moment Capacity (Corner-Corner,K-ft):	7113.5	> Moment at Bottom (C-C Dir. K-Ft):	1975.0	0.28	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):	634.9	0.12	OK!
Upper Steel Pad Moment Capacity (W-Direc. Kips-ft):	5084.0	> Moment at the top (W-Dir K-Ft):	634.9	0.12	OK!
Upper Steel Pad Moment Capacity (Corner-Corner. K-ft):	7113.5	> Moment at the top (C-C Dir. K-Ft):	618.2	0.09	OK!
(3).Check Punching Shear Capacity due to Moment in the Pier:					
Moment transferred by punching shear:	2084.6	k-ft. Max. factored shear stress $v_{u,CD}$:	2.6	Psi	
Max. factored shear stress $v_{u,AB}$:	8.6	Psi Factored shear Strength ϕv_n :	189.7	Psi	
Max. factored shear stress v_u :	8.6	Psi Check Usage of Punching Shear Capacity:	0.05		OK!

EXHIBIT 8

Mount Analysis



Tower Engineering Solutions

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

Antenna Mount Analysis Report

Existing 168-Ft Monopole Tower

Customer Name: SBA Communications Corp

Customer Site Number: CT02217-S-SBA / Pomfret School

Customer Site Name: Pomfret School

Carrier Name: T-Mobile (App#: 183633-1)

Carrier Site ID / Name: CT11525A / Pomfret School

Site Location: 398 Pomfret Street

Pomfret, Connecticut

Windham County

Latitude: 41.890094

Longitude: -71.955008

Analysis Result:

Max Structural Usage: 74.5 % [Pass]

Report Prepared By: Sandesh Khawas Bhujel



NOTE: This mount has been analyzed based on the assumption that an additional mount pipe, 2" STD pipe (8' long) will be added to the mount by the contractor as shown in the model.

Introduction

The purpose of this report is to summarize the analysis results on the (1) Low Profile Platform at 147.00' elevation to support the proposed antenna configuration. Any modification listed under Sources of Information was assumed completed and was included in this analysis.

Sources of Information

Mount Drawings	Provided by SBA and Mount Mapping by SkyTower LLC, dated 5/2/2019
Antenna Loading	SBA Application #: 183633, v1, dated 1/5/2022

Analysis Criteria

Basic Wind Speed Used in the Analysis: $V_{ULT} = 130$ mph (3-Sec. Gust) / Equivalent to
 $V_{ASD} = 101$ mph (3-Sec. Gust)

Basic Wind Speed with Ice: 50 mph (3-Sec. Gust) with 0.75" radial ice concurrent

Operational Wind Speed: 60 mph +0" Radial ice
Standard/Codes: ANSI/TIA/EIA 222-G / 2015 IBC

Exposure Category: C

Structure Class: II

Topographic Category: 1

Crest Height (Ft): 0

The site is a Risk Category II structure per IBC Table 1604.5. This site does not support emergency communication equipment for first responders such as fire departments, police, hospitals, ambulance services or any of the facilities listed for Risk Categories III and IV. The scope of work detailed in this structural analysis does not include items that are a part of emergency service as the 911 or essential facility service of an emergency response system.

Mount Information

(1) Low Profile Platform at 147.00' elevation

Final Antenna Configuration

3	Ericsson AIR6449 B41
3	RFS APXVAARR24_43-U-NA20
3	Ericsson KRY 112 489/2
3	Allen Telecom FE15501P77/75
3	Ericsson 4449 B71 + B85
3	Ericsson 4460 B25 + B66
3	Commscope VV-65A-R1
3	Kathrein 782 11056

In addition to the proposed equipment loading, a 500 lb serviceability load was also considered in this analysis in accordance with TIA requirements.

Analysis Results

Our calculations have determined that under design wind load the existing mounts will be structurally adequate to support the proposed antenna configuration. The maximum structural usage is 74.5%, which occurs in the flange connection. The proposed equipment must be installed as stipulated in the Final Antenna Configuration section of this report. The analysis results are void if the proposed equipment is not installed in accordance with this report.

NOTE: This mount has been analyzed based on the assumption that an additional mount pipe, 2" STD pipe (8' long) will be added to the mount by the contractor as shown in the model.

Attachments

1. Mount Photos
2. Antenna Placement Diagram
3. Mount Mapping Information
4. Analysis Calculations

Standard Conditions

1. The loading configuration as analyzed in this report is as provided from the customer. Any deviation from this design shall be communicated to TES to verify deviation will not adversely impact the analysis.
2. The analysis is based on the presumption that the antenna mount 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. The mount analysis is not a condition assessment of the mount.
4. The mount analysis was performed in accordance with the loading provided, and if applicable the modification required to support the additional loading.
5. If the mount is modified, installation must adhere to the configuration communicated in the modification drawings.
6. The modification drawings are not intended to convey means or methods. These are the responsibility of the installing contractor.
7. Rigging plan review is available if the contractor requires for a construction class IV or other if required. Review fee would apply.
8. The mount modification package was created based upon information provided for the mount loading. The underlying tower is assumed to provide support and sufficient rigidity to support the mount loads as a tower analysis was not part of the mount analysis.
9. TES is not responsible for modifications to climbing facilities unless communicated to TES in writing.



Sector: **A**

1/6/2022

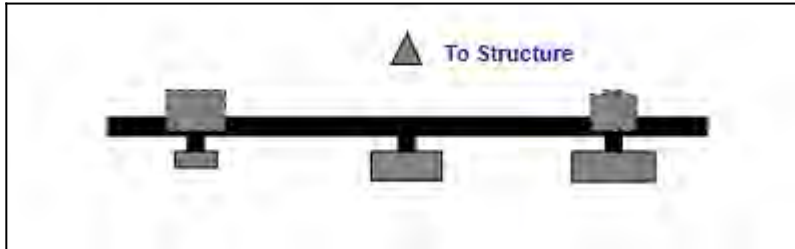
Structure Type: Monopole

Mount Elev: 147.00

Page: 1

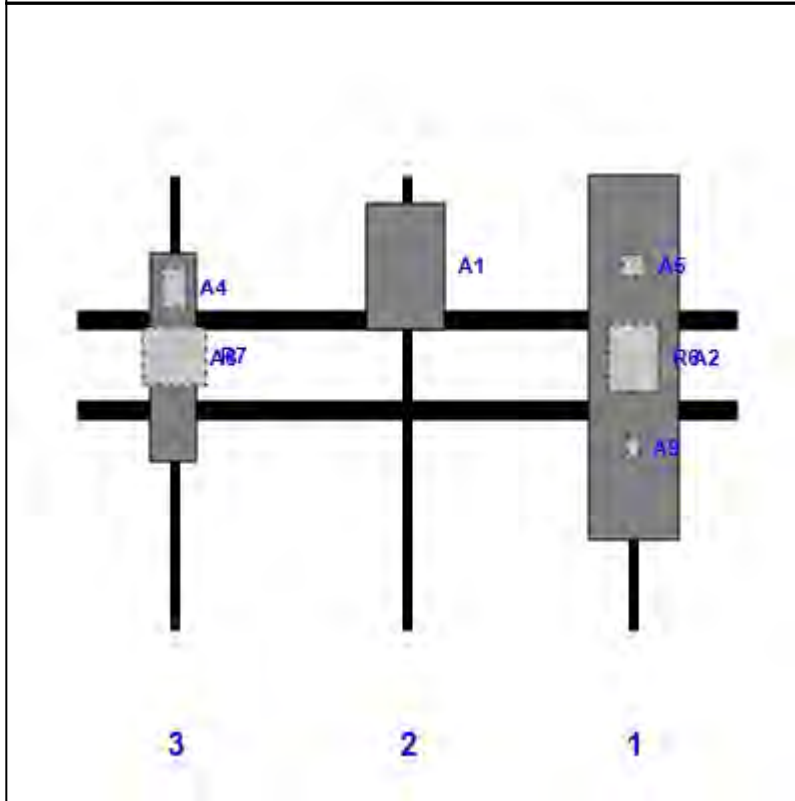


Plan View



Front View

Looking Toward Structure



Ref #	Model	Height (in)	Width (in)	H Dist Left	Pipe #	Pipe Pos V	Pos	From Top	H Offset	Status	Validation
A2	APXVAARR24_43-U-NA20	95.90	24.00	147.00	1	a	Front	48.00			
A5	FE15501P77/75	5.40	5.50	147.00	1	a	Behind	24.00			
R6	4449 B71 + B85	17.90	13.10	147.00	1	a	Behind	48.00			
A9	782 11056	5.50	3.20	147.00	1	a	Behind	72.00			
A1	AIR6449 B41	33.10	20.50	87.00	2	a	Front	24.00			
A8	VV-65A-R1	54.72	12.08	26.00	3	a	Front	48.00			
A4	KRY 112 489/2	11.00	6.10	26.00	3	a	Behind	30.00			
R7	4460 B25 + B66	15.10	17.00	26.00	3	a	Behind	48.00			

Structure: CT02217-S-SBA - Pomfret School

Sector: **B**

1/6/2022

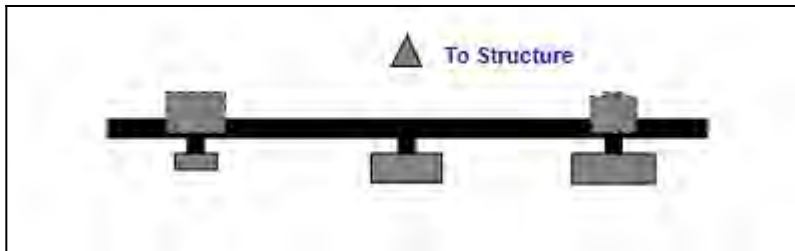
Structure Type: Monopole

Mount Elev: 147.00

Page: 2

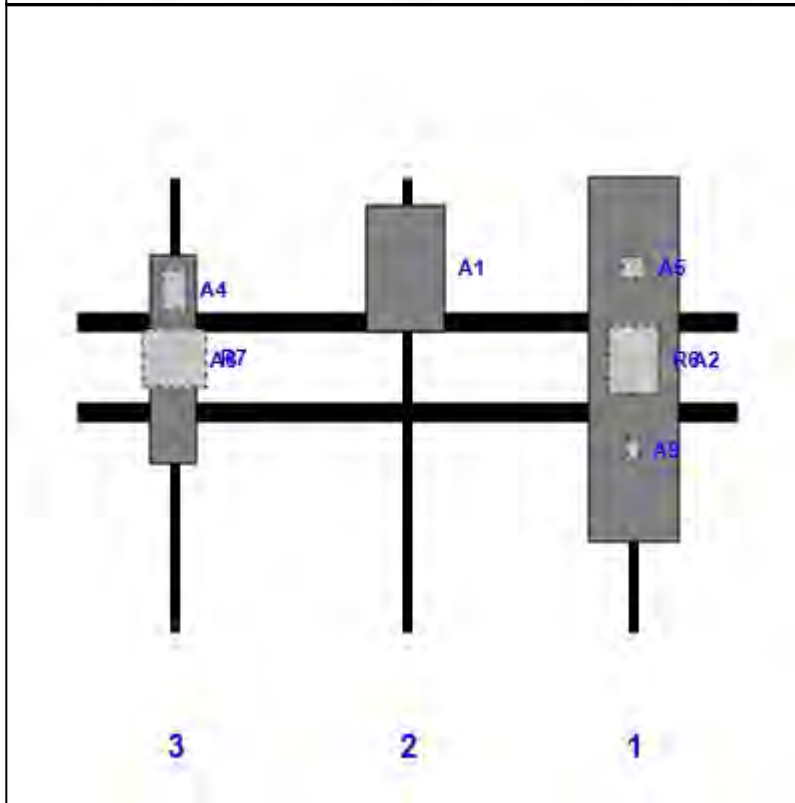


Plan View



Front View

Looking Toward Structure



Ref #	Model	Height (in)	Width (in)	H Dist Left	Pipe #	Pipe Pos V	Pos	From Top	H Offset	Status	Validation
A2	APXVAARR24_43-U-NA20	95.90	24.00	147.00	1	a	Front	48.00			
A5	FE15501P77/75	5.40	5.50	147.00	1	a	Behind	24.00			
R6	4449 B71 + B85	17.90	13.10	147.00	1	a	Behind	48.00			
A9	782 11056	5.50	3.20	147.00	1	a	Behind	72.00			
A1	AIR6449 B41	33.10	20.50	87.00	2	a	Front	24.00			
A8	VV-65A-R1	54.72	12.08	26.00	3	a	Front	48.00			
A4	KRY 112 489/2	11.00	6.10	26.00	3	a	Behind	30.00			
R7	4460 B25 + B66	15.10	17.00	26.00	3	a	Behind	48.00			

Structure: CT02217-S-SBA - Pomfret School

Sector: C

1/6/2022

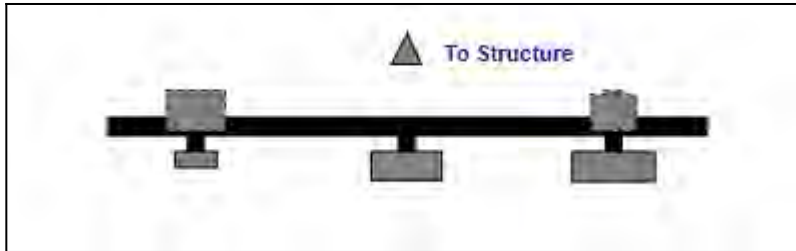
Structure Type: Monopole

Mount Elev: 147.00

Page: 3

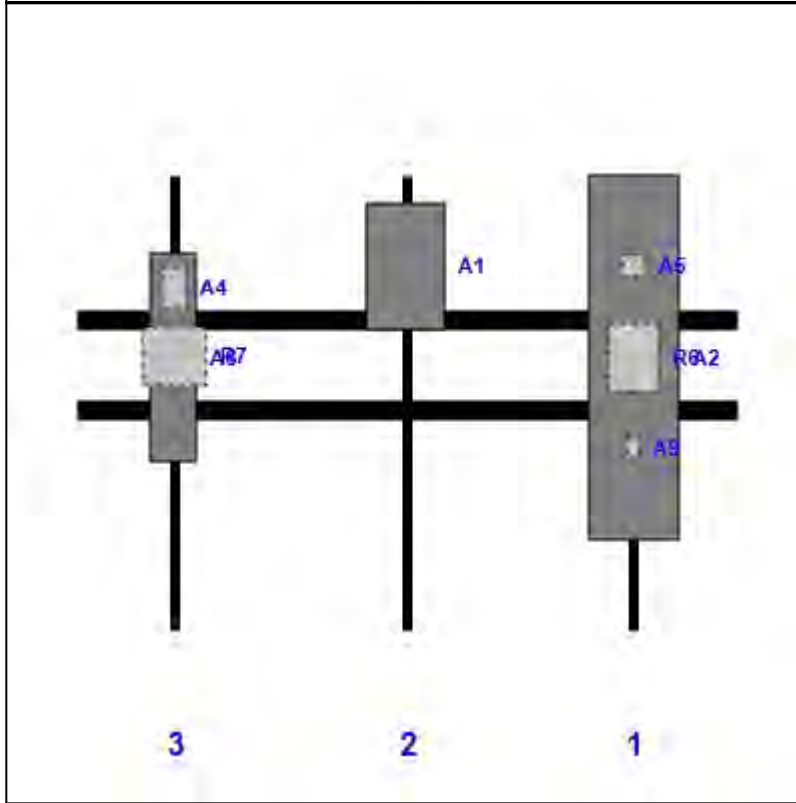


Plan View



Front View

Looking Toward Structure



Ref #	Model	Height (in)	Width (in)	H Dist Left	Pipe #	Pipe Pos V	Pos	From Top	H Offset	Status	Validation
A2	APXVAARR24_43-U-NA20	95.90	24.00	147.00	1	a	Front	48.00			
A5	FE15501P77/75	5.40	5.50	147.00	1	a	Behind	24.00			
R6	4449 B71 + B85	17.90	13.10	147.00	1	a	Behind	48.00			
A9	782 11056	5.50	3.20	147.00	1	a	Behind	72.00			
A1	AIR6449 B41	33.10	20.50	87.00	2	a	Front	24.00			
A8	VV-65A-R1	54.72	12.08	26.00	3	a	Front	48.00			
A4	KRY 112 489/2	11.00	6.10	26.00	3	a	Behind	30.00			
R7	4460 B25 + B66	15.10	17.00	26.00	3	a	Behind	48.00			

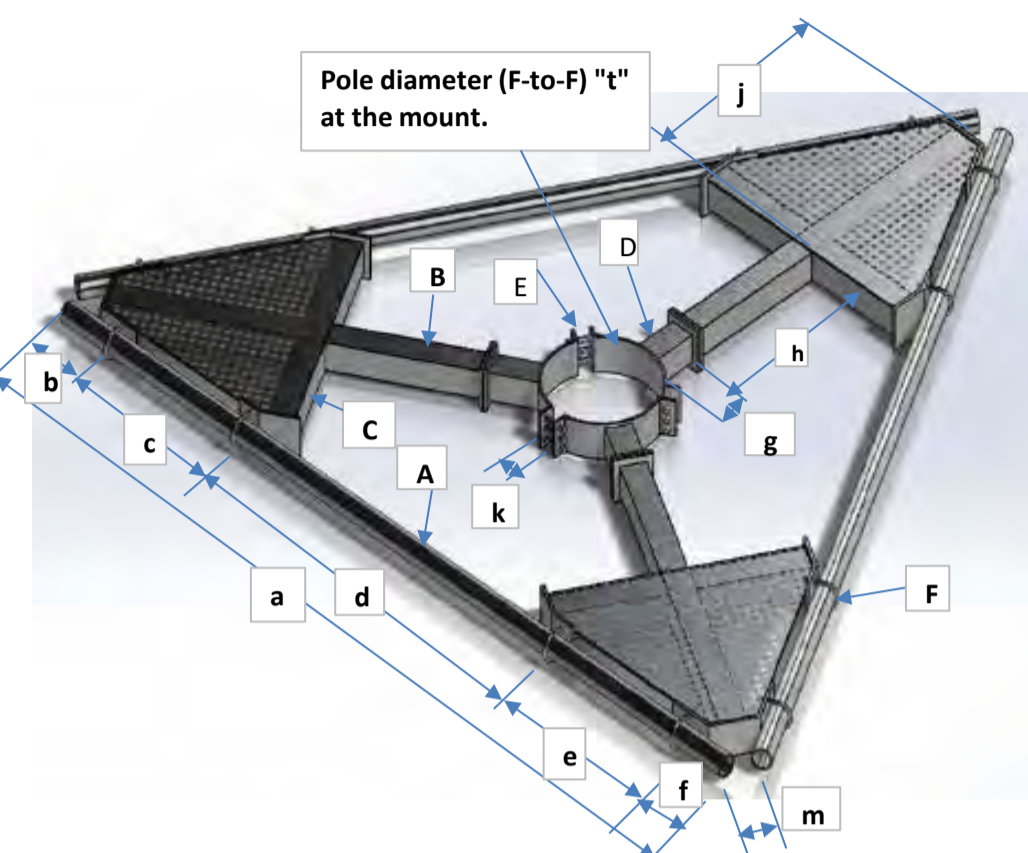


Antenna Mount Type "MT-C" Mapping Form (PATENT PENDING)

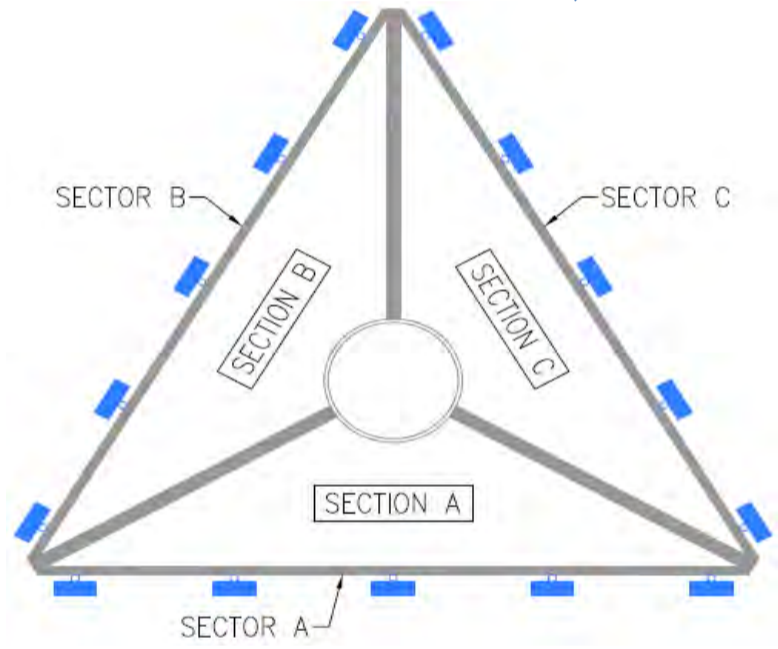
FCC #
1232484

Tower Owner:	SBA Corp.	Mapping Date:	5/2/19
Site Name:	Pomfret School	Structure Type:	Monopole
Site Number or ID:	CT02217	Structure Height (Ft.):	168
Mapping Contractor:	SkyTower LLC	Mount Height (Ft.):	147

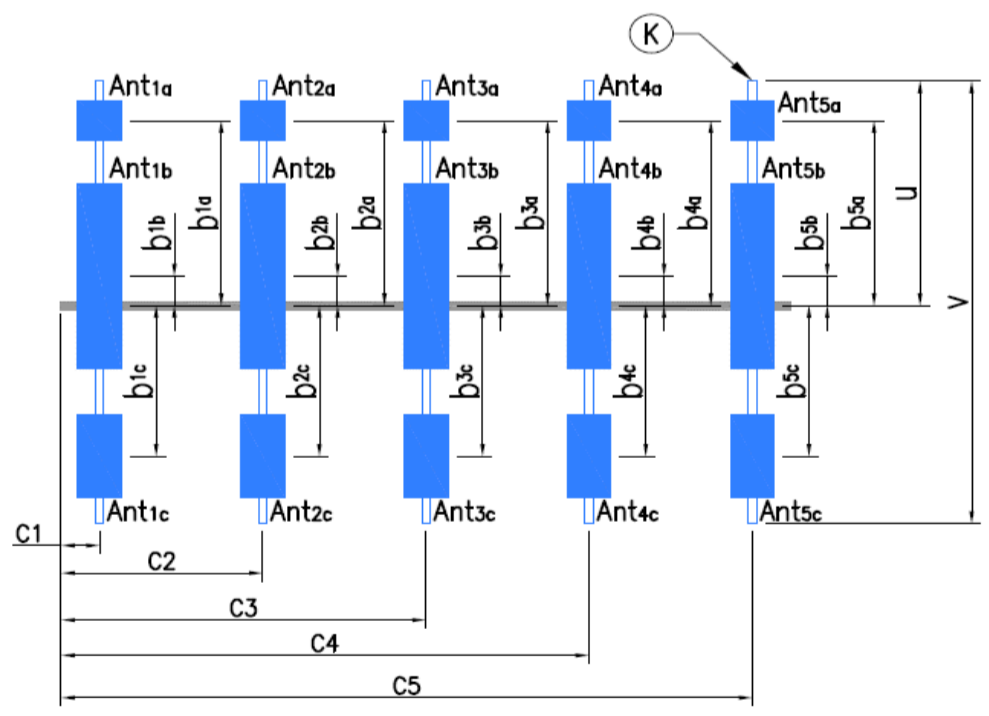
This antenna mapping form is the property of TES and under **PATENT PENDING**. The formation contained herein is considered confidential in nature and is to be used only for the specific customer it was intended for. Reproduction, transmission, publication, modification or disclosure by any method is prohibited except by express written permission of TES. All means and methods are the responsibility of the contractor and the work shall be compliant with ANSI/ASSE A 10.48, OSHA, FCC, FAA and other safety requirements that may apply. TES is not warranting the usability of the safety climb as it must be assessed prior to each use in compliance with OSHA requirements.



Geometries (Unit: inches)									
a	174	e	45	j	46	o		s	
b	5	f	7	k	17	p		t	30
c	45	g	6	m	12	q		u*	38
d	72	h	32	n		r		v*	96
Members/Bolts (Unit: inches) - See Ant. Layout for "u", "v" and member "K" (pipe)									
Items	Member	Lx (O.D.)	Ly (I.D.)	T	Items	Member	Lx (O.D.)	Ly (I.D.)	T
A	3.5 OD x 0.216 Pipe	3.5	3.068	0.216	F	1/2" U-Bolt			
B	Tubing 4x4x1/4	4	4	0.25	G				
C	Tubing 4x4x1/4	4	4	0.25	H				
D	1/2" Thick. Plate	0	0	0.5	J				
E	3/4" Bolt				K* (pipe)	.375 OD x 0.154 Pip	2.375	2.067	0.154
Please enter the information below if members can't be found from the drop down lists									
2.61 x 0.15 pipe 52" long connected as a horizontal support on POS 1 & 2 of opposite sectors above platform 24									



Climbing facility is , at 10 Degree Azimuth



Antenna Layout

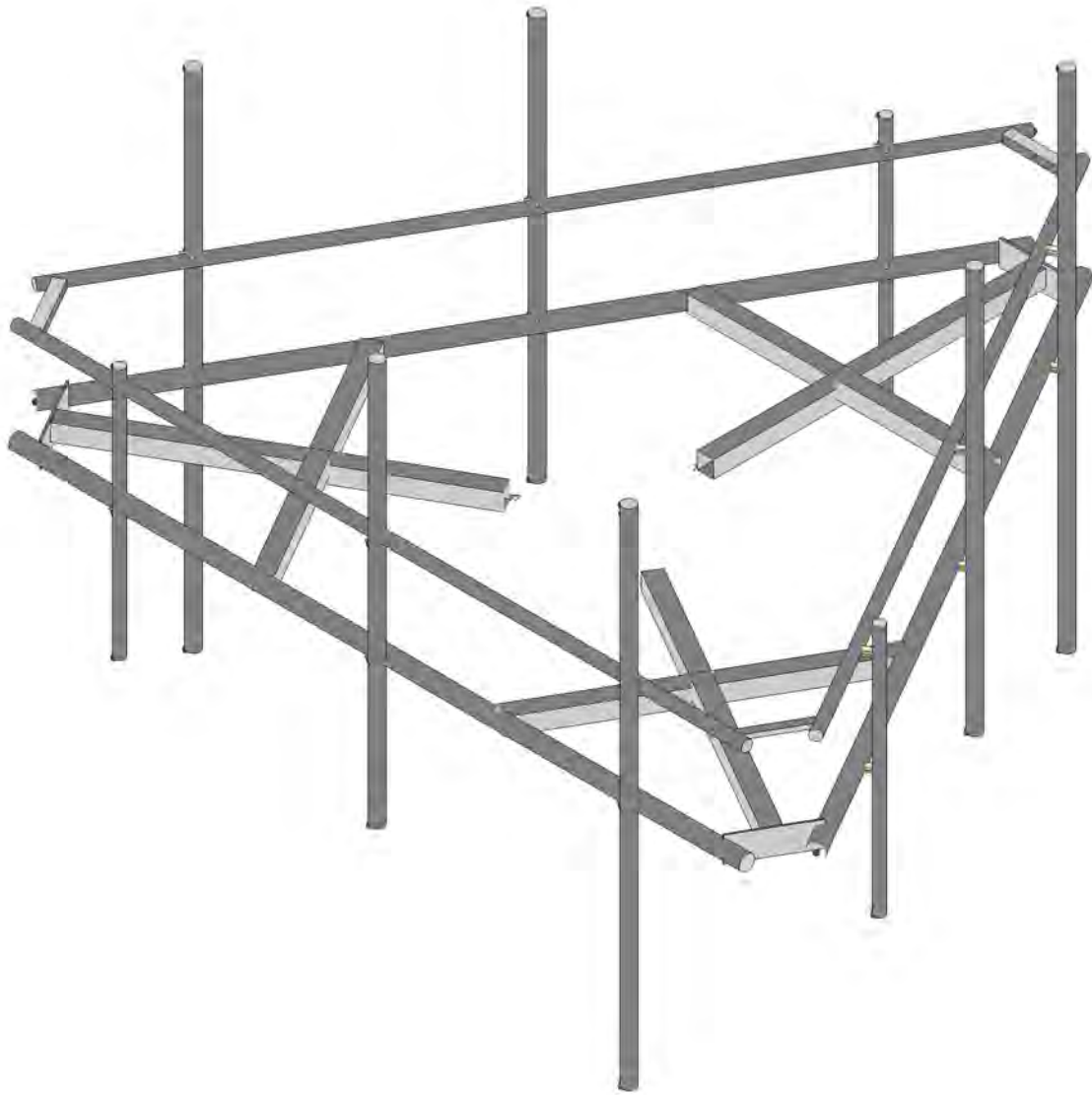
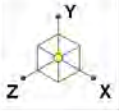
Ants. Items	Enter antenna model. If not labeled, enter "Unknown". If no antenna at specified location, enter "N/A". If antennas and the locations are the same on all three sectors, only enter one sector.					Mounting Locations (Unit: inches)			Photos of antennas
	Antenna Models if Known	Width (in.)	Depth (in.)	Height (in.)	Coax Size and Qty	Vertical Distances "b _{1a} , b _{2a} , b _{3a} , b _{1b} ..." (In.)	Horiz. offset (Use "-" if Ant. is inside)	Horiz. offset "C ₁ , C ₂ , C ₃ , C ₄ , C ₅ " (in.)	Photo Numbers
Sector A									
Ant _{1a}	LNX-6515DS-A1M	12	7.5	96	2 (1/2)	12	2.5	27	206-211
Ant _{1b}									
Ant _{1c}									
Ant _{2a}	unknown	6.5	3.5	54	2 (1/2)	0	5	148	212-221
Ant _{2b}	DTMA1900	6	4	11		-9	0		
Ant _{2c}									
Ant _{3a}									
Ant _{3b}									
Ant _{3c}									
Ant _{4a}									
Ant _{4b}									
Ant _{4c}									
Ant _{5a}									
Ant _{5b}									
Ant _{5c}									

Are Ant same as sector A? Yes **Antennas on Sector B are the same as Sector A**

Azimuth (Degree) of Each Sector and Climbing Information

Sector A:	70	↗	Deg	
Sector B:	190		Deg	
Sector C:	310		Deg	
Climbing	10		Deg	
Climbing Facility	Corrosion Type:		Good condition	
	Access:		Climbing path was unobstructed.	
	Condition:		N/A	

Are Ant same as sector A/B? Same As A **Antennas on Sector C are the same as Sector A**



Tower Engineering Solutio...

CT02217-S-SBA_MT_LO_Loads Only_G

SK - 1

Jan 6, 2022 at 10:09 AM

TES Project No. 121465

CT02217-S-SBA_121465_G_RISA_...



6 UjW@ UX'7 UjYg

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed Area(Me...	Surface(P...
1	Antenna D	None					30		
2	Antenna Di	None					30		
3	Antenna W Front	None					30		
4	Antenna Wi Front	None					30		
5	Antenna W Side	None					30		
6	Antenna Wi Side	None					30		
7	Service Lm1	None					1		
8	Service Lm2	None					1		
9	Structure D	None		-1					3
10	Structure Di	None						27	3
11	Structure W Front	None						27	
12	Structure Wi Front	None						27	
13	Structure W Side	None						27	
14	Structure Wi Side	None						27	
15	BLC 9 Transient Area..	None							24
16	BLC 10 Transient Are..	None							24

@ UX'7 ca VjbUjcbg

	Description	Sol.	PD.	SR.	BLC Fact...	BLC Fact...	BLC Fact...	BLC Fact...	BLC Fact...	BLC Fact...	BLC Fact...	BLC Fact...	BLC Fact...	BLC Fact...	BLC Fact...	BLC Fact...	BLC Fact...	BLC Fact...	BLC Fact...	BLC Fact...
1	1.2D+1.6...	Yes	Y		1	1.2	9	1.2	3	1.6	11	1.6								
2	1.2D+1.6...	Yes	Y		1	1.2	9	1.2	3	-1.6	11	-1.6								
3	1.2D+1.6...	Yes	Y		1	1.2	9	1.2	5	1.6	13	1.6								
4	1.2D+1.6...	Yes	Y		1	1.2	9	1.2	5	-1.6	13	-1.6								
5	1.2D+1.0...	Yes	Y		1	1.2	9	1.2	2	1	10	1	4	1	12	1				
6	1.2D+1.0...	Yes	Y		1	1.2	9	1.2	2	1	10	1	4	-1	12	-1				
7	1.2D+1.0...	Yes	Y		1	1.2	9	1.2	2	1	10	1	6	1	14	1				
8	1.2D+1.0...	Yes	Y		1	1.2	9	1.2	2	1	10	1	6	-1	14	-1				
9	1.2D+1.5L...	Yes	Y		1	1.2	9	1.2	7	1.5	3	.16	11	.16						
10	1.2D+1.5L...	Yes	Y		1	1.2	9	1.2	8	1.5	3	.16	11	.16						
11	1.4D	Yes	Y		1	1.4	9	1.4												

>cjbh7 ccfXjbUjYg'UbX'HYa dYfUi fYg

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
1	N3	0	0	-1.666667	0	
2	N4	-7.25	0	4.76314	0	
3	N5	7.25	0	4.76314	0	
4	N6	7.75	0	3.897114	0	
5	N7	.5	0	-8.660254	0	
6	N8	-.5	0	-8.660254	0	
7	N9	-7.75	0	3.897114	0	
8	N10	-7.14471	0	4.125	0	
9	N11	7.14471	0	4.125	0	
10	N12	-2e-14	0	-8.25	0	
11	N13	-6.776279	0	4.76314	0	
12	N14	-2.349927	0	4.76314	0	



>c]bh7ccfX]bUhg'UbX'HYa dYUhi fYg'f7 cb]bi YXL

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
13	N15	2.349927	0	4.76314	0	
14	N16	6.776279	0	4.76314	0	
15	N17	7.51314	0	3.48686	0	
16	N18	5.299964	0	-0.346473	0	
17	N19	2.950036	0	-4.416667	0	
18	N20	0.73686	0	-8.25	0	
19	N21	-0.73686	0	-8.25	0	
20	N22	-2.950036	0	-4.416667	0	
21	N23	-5.299964	0	-0.346473	0	
22	N24	-7.51314	0	3.48686	0	
23	NP1	5	5.166667	5.01314	0	
24	NP2	5	-4.833333	5.01314	0	
25	NP3	-5.083333	2.5	5.01314	0	
26	NP4	-5.083333	-2.5	5.01314	0	
27	N37	5	0	5.01314	0	
28	N38	-5.083333	0	5.01314	0	
29	N43	-3.824946	0	2.208333	0	
30	N44	3.824946	0	2.208333	0	
31	N45	-1e-14	0	-4.416667	0	
32	N58	0	0	5.01314	0	
33	N53A	5	0	4.76314	0	
34	N54A	-5.083333	0	4.76314	0	
35	N55A	0	0	4.76314	0	
36	N56A	0	5.166667	5.01314	0	
37	N57A	0	-2.833333	5.01314	0	
38	N46	1.841506	5.166667	-6.836697	0	
39	N47	1.841506	-4.833333	-6.836697	0	
40	N48	6.883173	2.5	1.895726	0	
41	N49	6.883173	-2.5	1.895726	0	
42	N50	1.841506	0	-6.836697	0	
43	N51	6.883173	0	1.895726	0	
44	N52A	4.341506	0	-2.50657	0	
45	N53B	1.625	0	-6.711697	0	
46	N54B	6.666667	0	2.020726	0	
47	N55B	4.125	0	-2.38157	0	
48	N56B	4.341506	5.166667	-2.50657	0	
49	N57B	4.341506	-2.833333	-2.50657	0	
50	N58A	-6.841506	5.166667	1.823557	0	
51	N59	-6.841506	-4.833333	1.823557	0	
52	N60	-1.79984	2.5	-6.908866	0	
53	N61	-1.79984	-2.5	-6.908866	0	
54	N62	-6.841506	0	1.823557	0	
55	N63	-1.79984	0	-6.908866	0	
56	N64	-4.341506	0	-2.50657	0	
57	N65	-6.625	0	1.948557	0	
58	N66	-1.583333	0	-6.783866	0	
59	N67	-4.125	0	-2.38157	0	
60	N68	-4.341506	5.166667	-2.50657	0	
61	N69	-4.341506	-2.833333	-2.50657	0	
62	N70	-7.25	2	4.76314	0	
63	N71	7.25	2	4.76314	0	
64	N72	7.75	2	3.897114	0	



>c]bh7ccfX]bUhg'UbX'HYa dYUhi fYg'f7 cb]bi YXL

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
65	N73	.5	2	-8.660254	0	
66	N74	-.5	2	-8.660254	0	
67	N75	-7.75	2	3.897114	0	
68	N76	5	2	5.01314	0	
69	N77	-5.083333	2	5.01314	0	
70	N78	0	2	5.01314	0	
71	N79	5	2	4.76314	0	
72	N80	-5.083333	2	4.76314	0	
73	N81	0	2	4.76314	0	
74	N82	1.841506	2	-6.836697	0	
75	N83	6.883173	2	1.895726	0	
76	N84	4.341506	2	-2.50657	0	
77	N85	1.625	2	-6.711697	0	
78	N86	6.666667	2	2.020726	0	
79	N87	4.125	2	-2.38157	0	
80	N88	-6.841506	2	1.823557	0	
81	N89	-1.79984	2	-6.908866	0	
82	N90	-4.341506	2	-2.50657	0	
83	N91	-6.625	2	1.948557	0	
84	N92	-1.583333	2	-6.783866	0	
85	N93	-4.125	2	-2.38157	0	
86	N94	-6.833333	2	4.76314	0	
87	N95	6.833333	2	4.76314	0	
88	N96	7.541667	2	3.53627	0	
89	N97	0.708333	2	-8.29941	0	
90	N98	-0.708333	2	-8.29941	0	
91	N99	-7.541667	2	3.53627	0	
92	N100	0	0	0	0	
93	N101	-1.443376	0	0.833333	0	
94	N103	1.443376	0	0.833333	0	

<chFc`YX'GhYY'GYW]cb'GYlg

	Label	Shape	Type	Design List	Material	Design Rul...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
1	Support Rail	PIPE 2.0	Beam	Pipe	A53 Gr.B	Typical	1.02	.627	.627	1.25
2	SR End Connection	L2.5x2x4	Beam	Single Angle	A36 Gr.36	Typical	1.07	.372	.656	.024
3	Front Face End Connect...	PL1/2x6	Beam	RECT	A36 Gr.36	Typical	3	.063	9	.237

<chFc`YX'GhYY'DfcdYf]Yg

	Label	E [ksi]	G [ksi]	Nu	Therm (/1E...Density[k/ft...	Yield[ksi]	Ry	Fu[ksi]	Rt	
1	A992	29000	11154	.3	.65	.49	50	1.1	65	1.1
2	A36 Gr.36	29000	11154	.3	.65	.49	36	1.5	58	1.2
3	A572 Gr.50	29000	11154	.3	.65	.49	50	1.1	65	1.1
4	A500 Gr.B RND	29000	11154	.3	.65	.527	42	1.4	58	1.3
5	A500 Gr.B Rect	29000	11154	.3	.65	.527	46	1.4	58	1.3
6	A53 Gr.B	29000	11154	.3	.65	.49	35	1.6	60	1.2
7	A1085	29000	11154	.3	.65	.49	50	1.4	65	1.3

A Ya Vyf Df Ja Ufm8 UU

	Label	I Joint	J Joint	K Joint	Rotate(d...	Section/Shape	Type	Design List	Material	Design Rul...
1	M1	N4	N5			PIPE 3.0	Beam	Pipe	A53 Gr.B	DR1
2	M2	N6	N7			PIPE 3.0	Beam	Pipe	A53 Gr.B	DR1
3	M3	N8	N9			PIPE 3.0	Beam	Pipe	A53 Gr.B	DR1
4	M6	N3	N12			HSS4X4X4	Beam	None	A500 Gr...	DR1
5	M7	N23	N14			HSS4X4X4	Beam	None	A500 Gr...	DR1
6	M8	N15	N18			HSS4X4X4	Beam	None	A500 Gr...	DR1
7	M9	N19	N22			HSS4X4X4	Beam	None	A500 Gr...	DR1
8	M10	N24	N13			Front Face End Connection	Beam	RECT	A36 Gr.36	Typical
9	M11	N16	N17			Front Face End Connection	Beam	RECT	A36 Gr.36	Typical
10	M12	N20	N21			Front Face End Connection	Beam	RECT	A36 Gr.36	Typical
11	MP1A	NP1	NP2			PIPE 2.5	Beam	Pipe	A53 Gr.B	DR1
12	MP3A	NP3	NP4			PIPE 2.0	Beam	Pipe	A53 Gr.B	DR1
13	M24A	N54A	N38			RIGID	Beam	None	RIGID	DR1
14	M25A	N55A	N58			RIGID	Beam	None	RIGID	DR1
15	M26A	N53A	N37			RIGID	Beam	None	RIGID	DR1
16	MP2A	N56A	N57A			PIPE 2.5	Beam	Pipe	A53 Gr.B	DR1
17	MP1C	N46	N47			PIPE 2.5	Beam	Pipe	A53 Gr.B	DR1
18	MP3C	N48	N49			PIPE 2.0	Beam	Pipe	A53 Gr.B	DR1
19	M26B	N54B	N51			RIGID	Beam	None	RIGID	DR1
20	M27A	N55B	N52A			RIGID	Beam	None	RIGID	DR1
21	M28	N53B	N50			RIGID	Beam	None	RIGID	DR1
22	MP2C	N56B	N57B			PIPE 2.5	Beam	Pipe	A53 Gr.B	DR1
23	MP1B	N58A	N59			PIPE 2.5	Beam	Pipe	A53 Gr.B	DR1
24	MP3B	N60	N61			PIPE 2.0	Beam	Pipe	A53 Gr.B	DR1
25	M32	N66	N63			RIGID	Beam	None	RIGID	DR1
26	M33	N67	N64			RIGID	Beam	None	RIGID	DR1
27	M34	N65	N62			RIGID	Beam	None	RIGID	DR1
28	MP2B	N68	N69			PIPE 2.5	Beam	Pipe	A53 Gr.B	DR1
29	M36	N70	N71			Support Rail	Beam	Pipe	A53 Gr.B	Typical
30	M37	N72	N73			Support Rail	Beam	Pipe	A53 Gr.B	Typical
31	M38	N74	N75			Support Rail	Beam	Pipe	A53 Gr.B	Typical
32	M39	N80	N77			RIGID	Beam	None	RIGID	DR1
33	M40	N81	N78			RIGID	Beam	None	RIGID	DR1
34	M41	N79	N76			RIGID	Beam	None	RIGID	DR1
35	M42	N86	N83			RIGID	Beam	None	RIGID	DR1
36	M43	N87	N84			RIGID	Beam	None	RIGID	DR1
37	M44	N85	N82			RIGID	Beam	None	RIGID	DR1
38	M45	N92	N89			RIGID	Beam	None	RIGID	DR1
39	M46	N93	N90			RIGID	Beam	None	RIGID	DR1
40	M47	N91	N88			RIGID	Beam	None	RIGID	DR1
41	M48	N99	N94		90	SR End Connection	Beam	Single Angle	A36 Gr.36	Typical
42	M49	N96	N95		180	SR End Connection	Beam	Single Angle	A36 Gr.36	Typical
43	M50	N97	N98		90	SR End Connection	Beam	Single Angle	A36 Gr.36	Typical
44	M49A	N101	N10			HSS4X4X4	Beam	None	A500 Gr...	DR1
45	M50A	N103	N11			HSS4X4X4	Beam	None	A500 Gr...	DR1



Company : Tower Engineering Solutions, LLC
 Designer :
 Job Number : TES Project No. 121465
 Model Name : CT02217-S-SBA_MT_LO_Loads Only_G

Jan 6, 2022
 10:11 AM
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A Ya Vyf'5 Xj Ub WX'8 UH

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
1	M1						Yes				None
2	M2						Yes				None
3	M3						Yes				None
4	M6						Yes				None
5	M7						Yes				None
6	M8						Yes				None
7	M9						Yes				None
8	M10						Yes				None
9	M11						Yes				None
10	M12						Yes				None
11	MP1A						Yes		-z		None
12	MP3A						Yes		-z		None
13	M24A						Yes				None
14	M25A						Yes				None
15	M26A						Yes				None
16	MP2A						Yes		-z		None
17	MP1C						Yes		-z		None
18	MP3C						Yes		-z		None
19	M26B						Yes				None
20	M27A						Yes				None
21	M28						Yes				None
22	MP2C						Yes		-z		None
23	MP1B						Yes		-z		None
24	MP3B						Yes		-z		None
25	M32						Yes				None
26	M33						Yes				None
27	M34						Yes				None
28	MP2B						Yes		-z		None
29	M36						Yes				None
30	M37						Yes				None
31	M38						Yes				None
32	M39						Yes				None
33	M40						Yes				None
34	M41						Yes				None
35	M42						Yes				None
36	M43						Yes				None
37	M44						Yes				None
38	M45						Yes				None
39	M46						Yes				None
40	M47						Yes				None
41	M48						Yes				None
42	M49						Yes				None
43	M50						Yes				None
44	M49A						Yes				None
45	M50A						Yes				None

<chFc`YX'GhY'8 Yg][b'DU'Ua YhYfg

	Label	Shape	Length[ft]	Lbyy[ft]	Lbzz[ft]	Lcomp top[ft]	Lcomp bot[ft]	L-torqu...	Kyy	Kzz	Cb	Function
1	M1	PIPE 3.0	14.5			Lbyy						Lateral
2	M2	PIPE 3.0	14.5			Lbyy						Gravity



<chFc`YX'GhY'8 Yg]] b'DU'Ua YhYfg'f7 cb]bi YXL

	Label	Shape	Length[ft]	Lbyy[ft]	Lbzz[ft]	Lcomp top[ft]	Lcomp bot[ft]	L-torqu...	Kyy	Kzz	Cb	Function
3	M3	PIPE 3.0	14.5			Lbyy						Gravity
4	M6	HSS4X4X4	6.583			Lbyy						Gravity
5	M7	HSS4X4X4	5.9			Lbyy						Gravity
6	M8	HSS4X4X4	5.9			Lbyy						Lateral
7	M9	HSS4X4X4	5.9			Lbyy						Gravity
8	M10	Front Face ...	1.474			Lbyy						Gravity
9	M11	Front Face ...	1.474			Lbyy						Gravity
10	M12	Front Face ...	1.474			Lbyy						Gravity
11	MP1A	PIPE 2.5	10			Lbyy						Lateral
12	MP3A	PIPE 2.0	5			Lbyy						Lateral
13	MP2A	PIPE 2.5	8			Lbyy						Lateral
14	MP1C	PIPE 2.5	10			Lbyy						Lateral
15	MP3C	PIPE 2.0	5			Lbyy						Lateral
16	MP2C	PIPE 2.5	8			Lbyy						Lateral
17	MP1B	PIPE 2.5	10			Lbyy						Lateral
18	MP3B	PIPE 2.0	5			Lbyy						Lateral
19	MP2B	PIPE 2.5	8			Lbyy						Lateral
20	M36	Support Rail	14.5			Lbyy						Lateral
21	M37	Support Rail	14.5			Lbyy						Gravity
22	M38	Support Rail	14.5			Lbyy						Gravity
23	M48	SR End Co...	1.417			Lbyy						Lateral
24	M49	SR End Co...	1.417			Lbyy						Lateral
25	M50	SR End Co...	1.417			Lbyy						Lateral
26	M49A	HSS4X4X4	6.583			Lbyy						Gravity
27	M50A	HSS4X4X4	6.583			Lbyy						Gravity

>c]bh6 ci bXUf m7 cbX]hcbg

	Joint Label	X [k/in]	Y [k/in]	Z [k/in]	X Rot.[k-ft/rad]	Y Rot.[k-ft/rad]	Z Rot.[k-ft/rad]
1	N3	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction
2	N101	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction
3	N103	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction

9bj YcdY>c]bhFYUM]cbg

	Joint		X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC
1	N3	max	2258.213	4	3237.17	5	3603.627	1	8.484	5	3.779	3	.773	3
2		min	-2257.99	3	333.493	2	-3685.522	2	.479	2	-3.78	4	-.641	4
3	N101	max	3107.7	4	3285.464	8	2064.686	1	-.479	1	2.134	1	-.576	3
4		min	-3184.592	3	505.809	3	-2022.028	2	-4.376	6	-2.133	2	-7.778	8
5	N103	max	2765.475	4	3220.672	7	2625.813	1	-.315	1	3.006	2	7.626	7
6		min	-2688.807	3	478.328	4	-2586.568	2	-4.647	6	-3.005	1	.753	4
7	Totals:	max	8131.389	4	9290.213	8	8294.126	1						
8		min	-8131.39	3	3538.053	3	-8294.119	2						

9bj YcdYA Ya VYf'GYW]cb': cfWYg

	Member	Sec	Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[k-...	LC	y-y Mome...	LC	z-z Mome...	LC
1	M1	1	max	0	11	0	11	0	11	0	11	0	11	11
2			min	0	1	0	1	0	1	0	1	0	1	1



Company : Tower Engineering Solutions, LLC
 Designer :
 Job Number : TES Project No. 121465
 Model Name : CT02217-S-SBA_MT_LO_Loads Only_G

Jan 6, 2022
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9bj YcdYA Ya Vyf GYVjcb: cfWVg fT cbhpi YXL

Member	Sec		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[k-...	LC	y-y Mome...	LC	z-z Mome...	LC	
3		2	max	1121.698	2	-162.718	1	543.876	2	.121	3	.227	2	.296	9
4			min	-568.847	1	-607.159	8	-609.304	1	-.359	8	-.21	1	-.096	3
5		3	max	1521.014	2	555.357	8	355.237	2	.724	1	.522	1	.503	3
6			min	-971.818	1	-411.003	3	-334.945	1	-.856	2	-.555	2	-.057	1
7		4	max	1146.874	2	888.385	7	978.251	1	.419	1	.186	2	.187	10
8			min	-562.495	1	236.332	4	-912.638	2	-.179	2	-.189	1	-.091	4
9		5	max	0	11	0	11	0	11	0	11	0	11	0	11
10			min	0	1	0	1	0	1	0	1	0	1	0	1
11	M2	1	max	0	11	.01	2	.003	4	0	11	0	11	0	11
12			min	0	1	-.004	8	0	6	0	1	0	1	0	1
13		2	max	942.726	7	-145.472	4	475.563	3	.097	1	.215	3	.406	6
14			min	-356.037	2	-619.528	7	-523.472	4	-.474	6	-.207	4	-.105	1
15		3	max	1608.895	3	572.16	6	457.822	3	.537	3	.44	4	.578	1
16			min	-1041.189	4	-380.211	1	-451.131	4	-.541	4	-.454	3	.089	9
17		4	max	1228.884	3	942.897	5	738.43	4	.421	4	.174	1	.098	4
18			min	-623.46	4	221.53	2	-678.219	3	-.146	3	-.185	2	-.045	3
19		5	max	0	11	.002	7	0	8	0	11	0	11	0	11
20			min	0	1	-.007	1	-.002	2	0	1	0	1	0	1
21	M3	1	max	0	11	.008	1	0	4	0	11	0	11	0	11
22			min	0	1	-.003	8	0	5	0	1	0	1	0	1
23		2	max	1266.669	4	-137.122	2	461.647	4	.04	2	.226	4	.333	7
24			min	-682.483	3	-647.552	5	-514.34	3	-.385	5	-.214	3	-.083	4
25		3	max	1701.847	4	528.319	5	437.058	3	.637	3	.41	3	.534	4
26			min	-1079.65	3	-435.541	6	-437.065	4	-.712	4	-.428	4	-.26	3
27		4	max	1036.187	5	928.892	6	789.03	3	.419	6	.194	4	.251	9
28			min	-297.777	2	229.009	1	-723.533	4	-.058	1	-.208	3	-.051	1
29		5	max	0	11	.003	7	0	2	0	11	0	11	0	11
30			min	0	1	-.007	2	-.004	3	0	1	0	1	0	1
31	M6	1	max	3685.522	2	3233.524	5	2258.506	4	.641	4	3.779	3	8.484	5
32			min	-3603.627	1	334.146	2	-2257.831	3	-.773	3	-3.78	4	.479	2
33		2	max	3685.522	2	3183.563	5	2192.749	4	.641	4	.133	2	3.204	5
34			min	-3603.627	1	309.788	2	-2192.074	3	-.773	3	-.133	1	-.051	2
35		3	max	1692.697	2	205.052	5	167.371	4	.425	4	.006	10	.315	1
36			min	-1688.126	1	-16.777	2	-152.705	3	-.463	3	-.053	7	-.195	2
37		4	max	1692.697	2	108.737	1	101.614	4	.425	4	.223	4	.103	1
38			min	-1688.126	1	-59.265	2	-86.949	3	-.463	3	-.227	3	-.131	2
39		5	max	1692.697	2	76.065	1	35.857	4	.425	4	.336	4	-.006	2
40			min	-1688.126	1	-91.938	2	-21.192	3	-.463	3	-.316	3	-.081	5
41	M7	1	max	513.006	2	-154.287	1	1179.028	4	.172	4	1.489	3	.403	4
42			min	-479.316	1	-1444.21	6	-1237.818	3	-.379	3	-1.388	4	-.69	3
43		2	max	538.525	2	-182.968	1	1223.227	4	.172	4	.383	4	1.797	8
44			min	-504.835	1	-1509.882	6	-1282.017	3	-.379	3	-.369	3	-.2	3
45		3	max	662.949	1	558.668	2	1267.426	4	.485	8	2.22	4	4.018	8
46			min	-612.102	2	-1580.184	6	-1326.216	3	-.379	3	-2.293	3	.456	3
47		4	max	637.431	1	1306.945	8	833.701	1	.485	8	.505	2	2.038	6
48			min	-586.584	2	60.271	3	-799.415	2	-.171	3	-.486	1	-.098	1
49		5	max	611.912	1	1241.273	8	818.968	1	.485	8	.733	1	.731	2
50			min	-561.065	2	31.591	3	-784.682	2	-.171	3	-.663	2	-.662	1
51	M8	1	max	999.529	1	-109.453	4	994.124	2	.372	2	1.131	1	.686	2
52			min	-975.083	2	-1317.574	7	-1050.098	1	-.484	1	-1.03	2	-.916	1
53		2	max	1025.047	1	-138.133	4	1008.857	2	.372	2	.447	2	1.686	6
54			min	-1000.601	2	-1383.246	7	-1064.832	1	-.484	1	-.429	1	-.144	1



9bj YcdYA Ya VYf GYVJcb: cfWVg fT cbhpi YXL

Member	Sec		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[k-...	LC	y-y Mome...	LC	z-z Mome...	LC	
55		3	max	1050.565	1	1393.788	6	1023.59	2	.584	2	1.946	2	3.75	7
56			min	-1026.12	2	-1453.548	7	-1079.565	1	-.484	1	-2.011	1	.376	4
57		4	max	605.288	2	1323.486	6	965.658	4	.584	2	.283	3	1.784	7
58			min	-567.238	1	123.899	1	-937.274	3	-.229	1	-.275	4	-.129	4
59		5	max	579.77	2	1257.814	6	921.459	4	.584	2	1.116	4	.431	1
60			min	-541.72	1	95.219	1	-893.075	3	-.229	1	-1.067	3	-.56	2
61	M9	1	max	1096.776	4	-152.275	2	913.942	1	.279	3	1.11	2	.628	3
62			min	-1062.403	3	-1402.874	5	-965.732	2	-.457	4	-1.02	1	-.846	4
63		2	max	1096.776	4	-180.955	2	972.874	1	.279	3	.428	3	1.811	5
64			min	-1062.403	3	-1468.545	5	-1024.664	2	-.457	4	-.415	4	-.043	2
65		3	max	1096.776	4	668.414	3	1031.806	1	.564	3	1.85	1	4.029	5
66			min	-1062.403	3	-1538.847	5	-1083.596	2	-.457	4	-1.912	2	.246	2
67		4	max	911.374	3	1320.125	5	850.184	2	.564	3	.472	4	1.917	5
68			min	-862.549	4	59.816	2	-824.942	1	-.213	4	-.461	3	.061	2
69		5	max	911.374	3	1254.453	5	791.251	2	.564	3	.818	2	.688	4
70			min	-862.549	4	31.136	2	-766.01	1	-.213	4	-.769	1	-.691	3
71	M10	1	max	448.038	4	231.672	9	910.907	4	.002	1	.329	3	.379	4
72			min	-360.262	3	-135.507	4	-939.773	3	-.052	6	-.322	4	-.206	3
73		2	max	438.477	4	227.001	9	927.467	4	.002	1	.017	4	.43	4
74			min	-350.701	3	-140.178	4	-956.333	3	-.052	6	-.021	3	-.25	3
75		3	max	502.523	4	507.577	9	944.027	4	.037	4	.362	4	.482	4
76			min	-433.545	3	-145.644	4	-972.893	3	-.052	6	-.376	3	-.292	3
77		4	max	492.962	4	502.11	9	701.784	1	.037	4	.017	2	.315	6
78			min	-423.984	3	-96.116	1	-736.85	2	-.014	3	-.02	1	-.051	1
79		5	max	483.401	4	497.439	9	696.264	1	.037	4	.238	1	.325	6
80			min	-414.423	3	-100.787	1	-731.33	2	-.014	3	-.253	2	-.144	9
81	M11	1	max	502.747	3	146.198	1	809.857	2	.006	2	.275	1	.495	2
82			min	-426.581	4	-508.059	10	-826.065	1	-.051	5	-.273	2	-.233	1
83		2	max	512.308	3	141.527	1	815.377	2	.006	2	.027	2	.574	2
84			min	-436.142	4	-512.73	10	-831.585	1	-.051	5	-.031	1	-.286	1
85		3	max	521.869	3	136.061	1	907.8	4	.05	6	.35	3	.655	2
86			min	-445.703	4	-518.196	10	-924.45	3	-.051	5	-.346	4	-.337	1
87		4	max	461.061	3	62.34	3	891.24	4	.05	6	.013	3	.363	7
88			min	-395.162	4	-222.561	10	-907.89	3	-.015	1	-.015	4	-.057	4
89		5	max	470.622	3	57.669	3	874.68	4	.05	6	.311	4	.387	7
90			min	-404.723	4	-227.232	10	-891.33	3	-.015	1	-.319	3	-.019	4
91	M12	1	max	615.612	1	134.715	4	803.698	1	.008	3	.298	2	.306	1
92			min	-534.903	2	-145.375	3	-827.523	2	-.048	8	-.293	1	-.126	2
93		2	max	615.612	1	130.045	4	825.778	1	.008	3	.011	3	.346	3
94			min	-534.903	2	-150.046	3	-849.603	2	-.048	8	-.015	4	-.161	4
95		3	max	615.612	1	124.578	4	847.858	1	.031	1	.316	1	.402	3
96			min	-548.04	2	-155.512	3	-871.683	2	-.048	8	-.328	2	-.155	2
97		4	max	613.171	1	64.134	4	795.4	2	.037	5	.007	4	.268	5
98			min	-548.04	2	-121.966	3	-822.112	1	-.007	2	-.009	3	-.034	2
99		5	max	613.171	1	59.464	4	773.32	2	.037	5	.282	2	.304	5
100			min	-548.04	2	-129.063	7	-800.032	1	-.007	2	-.294	1	-.01	2
101	MP1A	1	max	0	6	.425	4	1.329	1	0	7	0	11	0	11
102			min	0	1	-.488	7	-1.964	6	0	4	0	1	0	1
103		2	max	436.619	6	341.534	4	665.881	1	0	7	.974	1	.47	3
104			min	114.235	1	-341.565	3	-666.051	2	0	4	-.975	2	-.47	4
105		3	max	573.309	6	835.46	8	515.466	1	.293	1	1.905	1	.21	3
106			min	-4.606	1	-22.239	3	-378.616	2	-.545	2	-1.687	2	-1.16	8



9bj YcdYA Ya VYf GYWJcb: cfWg f7 cbhpi YXL

Member	Sec		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[k-...	LC	y-y Mome...	LC	z-z Mome...	LC	
107		4	max	-16.435	10	43.11	3	43.253	2	0	9	.054	1	.054	3
108			min	-40.995	5	-42.945	4	-43.05	1	0	8	-.054	2	-.054	4
109		5	max	0	11	.827	8	1.047	6	0	9	0	11	0	11
110			min	0	1	.019	9	.025	1	0	8	0	6	0	1
111	MP3A	1	max	0	1	.003	4	.007	1	0	3	0	11	0	11
112			min	0	6	-.003	3	-.013	6	0	4	0	2	0	1
113		2	max	140.177	2	59.7	4	336.404	1	.187	2	.168	1	.126	1
114			min	-152.237	1	-746.195	7	-229.083	2	-.073	1	-.133	2	-.08	2
115		3	max	-149.499	1	-114.624	1	354.196	1	.187	2	.6	1	.985	7
116			min	-331.707	6	-752.917	7	-246.875	2	-.073	1	-.515	2	-.303	4
117		4	max	-144.292	1	189.865	3	331.646	2	0	8	.089	1	.054	3
118			min	-315.551	6	-190.121	4	-331.421	1	0	10	-.09	2	-.054	4
119		5	max	0	1	-.046	10	.686	7	0	8	0	11	0	11
120			min	0	6	-.793	8	.003	4	0	10	0	1	0	1
121	M24A	1	max	743.324	1	465.47	6	808.013	7	.928	6	.162	4	.176	3
122			min	-634.151	2	19.691	1	-306.968	4	.27	1	-.217	3	-.229	4
123		2	max	743.324	1	465.47	6	808.013	7	.928	6	.143	4	.167	3
124			min	-634.151	2	19.691	1	-306.968	4	.27	1	-.168	3	-.241	4
125		3	max	743.324	1	465.47	6	808.013	7	.928	6	.123	4	.158	3
126			min	-634.151	2	19.691	1	-306.968	4	.27	1	-.118	3	-.253	4
127		4	max	743.324	1	465.47	6	808.013	7	.928	6	.127	2	.149	3
128			min	-634.151	2	19.691	1	-306.968	4	.27	1	-.092	1	-.265	4
129		5	max	743.324	1	465.47	6	808.013	7	.928	6	.15	2	.14	3
130			min	-634.151	2	19.691	1	-306.968	4	.27	1	-.084	1	-.277	4
131	M25A	1	max	588.791	1	796.01	8	660.165	3	.805	3	.219	4	1.457	2
132			min	-613.85	2	239.45	3	-660.726	4	-.823	4	-.201	3	-1.34	1
133		2	max	588.791	1	796.01	8	660.165	3	.805	3	.178	4	1.441	2
134			min	-613.85	2	239.45	3	-660.726	4	-.823	4	-.16	3	-1.362	1
135		3	max	588.791	1	796.01	8	660.165	3	.805	3	.16	2	1.426	2
136			min	-613.85	2	239.45	3	-660.726	4	-.823	4	-.142	1	-1.384	1
137		4	max	588.791	1	796.01	8	660.165	3	.805	3	.16	2	1.41	2
138			min	-613.85	2	239.45	3	-660.726	4	-.823	4	-.142	1	-1.406	1
139		5	max	588.791	1	796.01	8	660.165	3	.805	3	.16	2	1.394	2
140			min	-613.85	2	239.45	3	-660.726	4	-.823	4	-.142	1	-1.428	1
141	M26A	1	max	1208.752	1	946.66	6	373.871	3	-.321	2	.373	1	.611	2
142			min	-1066.608	2	99.724	1	-932.958	4	-1.188	7	-.417	2	-.641	1
143		2	max	1208.752	1	946.66	6	373.871	3	-.321	2	.359	1	.581	2
144			min	-1066.608	2	99.724	1	-932.958	4	-1.188	7	-.439	2	-.647	1
145		3	max	1208.752	1	946.66	6	373.871	3	-.321	2	.346	1	.552	2
146			min	-1066.608	2	99.724	1	-932.958	4	-1.188	7	-.46	2	-.653	1
147		4	max	1208.752	1	946.66	6	373.871	3	-.321	2	.332	1	.523	2
148			min	-1066.608	2	99.724	1	-932.958	4	-1.188	7	-.482	2	-.659	1
149		5	max	1208.752	1	946.66	6	373.871	3	-.321	2	.319	1	.493	2
150			min	-1066.608	2	99.724	1	-932.958	4	-1.188	7	-.503	2	-.665	1
151	MP2A	1	max	0	6	.333	4	1.117	1	0	3	0	11	0	11
152			min	0	1	-.357	3	-1.493	6	0	4	0	1	0	1
153		2	max	170.862	6	107.176	4	204.88	1	0	3	.206	1	.108	3
154			min	74.948	1	-107.2	3	-205.167	2	0	4	-.207	2	-.108	4
155		3	max	730.619	8	592.996	4	523.275	1	.16	2	.918	1	.172	3
156			min	213.304	3	-592.07	3	-548.413	2	-.142	1	-.781	2	-.188	4
157		4	max	-13.148	2	34.474	3	34.554	2	0	9	.035	1	.034	3
158			min	-32.796	5	-34.47	4	-34.506	1	0	7	-.035	2	-.034	4



9bj YcdYA Ya Vyf GYVjcb: cfWVg f7 cbh7bi YXL

Member	Sec		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[k-...	LC	y-y Mome...	LC	z-z Mome...	LC	
159		5	max	0	6	.022	7	.197	6	0	9	0	11	0	11
160			min	0	1	-.011	9	-.046	1	0	7	0	2	0	1
161	MP1C	1	max	0	5	1.002	4	.838	5	0	7	0	11	0	11
162			min	0	2	-1.34	7	-.632	2	0	4	0	1	0	1
163		2	max	436.619	5	584.693	4	422.662	1	0	7	.596	1	.848	3
164			min	114.235	2	-584.803	3	-422.602	2	0	4	-.596	2	-.848	4
165		3	max	543.131	5	352.313	4	4.945	1	.188	4	.432	1	1.496	3
166			min	25.538	2	-522.737	3	-865.45	6	-.395	3	-1.255	6	-1.286	4
167		4	max	-16.435	4	43.111	3	42.952	2	0	2	.054	1	.054	3
168			min	-40.995	6	-43.042	4	-43.15	1	0	5	-.054	2	-.054	4
169		5	max	0	11	.407	5	.007	4	0	2	0	11	0	11
170			min	0	1	-.05	2	-.997	7	0	5	0	1	0	1
171	MP3C	1	max	0	4	.005	4	.005	1	0	7	0	11	0	11
172			min	0	7	-.01	7	-.005	2	0	4	0	5	0	1
173		2	max	142.78	3	530.504	8	673.482	5	.151	7	.057	2	.141	1
174			min	-174.926	4	-56.712	3	-259.862	2	-.05	4	-.055	1	-.19	2
175		3	max	-149.499	9	537.226	8	685.06	1	.151	7	.834	5	.462	3
176			min	-331.707	7	161.633	9	-277.653	2	-.05	4	-.356	2	-.756	8
177		4	max	-144.292	4	296.261	3	225.505	2	0	2	.063	1	.081	3
178			min	-315.551	7	-295.96	4	-225.371	1	0	5	-.063	2	-.08	4
179		5	max	0	4	.929	5	.476	6	0	2	0	11	0	11
180			min	0	7	.056	2	-.032	1	0	5	0	1	0	1
181	M26B	1	max	554.071	4	440.776	7	916.18	1	.938	5	.134	2	.191	1
182			min	-455.823	3	-2.325	4	-390.792	2	.259	2	-.136	1	-.291	2
183		2	max	554.071	4	440.776	7	916.18	1	.938	5	.112	3	.176	1
184			min	-455.823	3	-2.325	4	-390.792	2	.259	2	-.083	4	-.296	2
185		3	max	554.071	4	440.776	7	916.18	1	.938	5	.109	3	.162	1
186			min	-455.823	3	-2.325	4	-390.792	2	.259	2	-.046	4	-.301	2
187		4	max	554.071	4	440.776	7	916.18	1	.938	5	.144	7	.147	1
188			min	-455.823	3	-2.325	4	-390.792	2	.259	2	-.01	4	-.306	2
189		5	max	554.071	4	440.776	7	916.18	1	.938	5	.185	7	.132	1
190			min	-455.823	3	-2.325	4	-390.792	2	.259	2	.027	4	-.311	2
191	M27A	1	max	450.237	4	849.622	6	681.816	1	.792	1	.178	3	1.041	3
192			min	-456.765	3	215.754	1	-673.549	2	-.848	2	-.171	4	-1.029	4
193		2	max	450.237	4	849.622	6	681.816	1	.792	1	.152	3	1.02	3
194			min	-456.765	3	215.754	1	-673.549	2	-.848	2	-.145	4	-1.048	4
195		3	max	450.237	4	849.622	6	681.816	1	.792	1	.127	3	.999	3
196			min	-456.765	3	215.754	1	-673.549	2	-.848	2	-.119	4	-1.067	4
197		4	max	450.237	4	849.622	6	681.816	1	.792	1	.101	3	.978	3
198			min	-456.765	3	215.754	1	-673.549	2	-.848	2	-.093	4	-1.086	4
199		5	max	450.237	4	849.622	6	681.816	1	.792	1	.076	3	.957	3
200			min	-456.765	3	215.754	1	-673.549	2	-.848	2	-.067	4	-1.105	4
201	M28	1	max	957.748	4	917.281	5	347.582	1	-.313	3	.289	2	.403	3
202			min	-813.151	3	134.66	2	-943.148	6	-1.327	8	-.369	1	-.537	4
203		2	max	957.748	4	917.281	5	347.582	1	-.313	3	.254	4	.38	3
204			min	-813.151	3	134.66	2	-943.148	6	-1.327	8	-.371	3	-.549	4
205		3	max	957.748	4	917.281	5	347.582	1	-.313	3	.271	4	.357	3
206			min	-813.151	3	134.66	2	-943.148	6	-1.327	8	-.424	3	-.561	4
207		4	max	957.748	4	917.281	5	347.582	1	-.313	3	.287	4	.334	3
208			min	-813.151	3	134.66	2	-943.148	6	-1.327	8	-.477	3	-.573	4
209		5	max	957.748	4	917.281	5	347.582	1	-.313	3	.303	4	.311	3
210			min	-813.151	3	134.66	2	-943.148	6	-1.327	8	-.53	3	-.585	4



9bj YcdYA Ya VYf GYVjcb: cfWkg f7 cbh7bi YXL

Member	Sec		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[k-...	LC	y-y Mome...	LC	z-z Mome...	LC	
211	MP2C	1	max	0	7	.808	4	.683	5	0	7	0	11	0	11
212			min	0	4	-1.114	7	-.477	2	0	4	0	1	0	1
213		2	max	170.862	7	180.341	4	131.684	1	0	7	.132	1	.182	3
214			min	74.948	4	-180.561	3	-131.55	2	0	4	-.132	2	-.181	4
215		3	max	783.774	6	531.75	4	640.899	1	.148	3	.261	1	.534	3
216			min	190.792	1	-534.581	3	-630.776	2	-.139	4	-.319	2	-.639	4
217		4	max	-13.148	3	34.527	3	34.476	2	0	4	.035	1	.035	3
218			min	-32.796	8	-34.49	4	-34.497	1	0	7	-.034	2	-.035	4
219		5	max	0	7	.147	7	.016	2	0	4	0	11	0	11
220			min	0	2	-.031	4	-.088	5	0	7	0	1	0	1
221	MP1B	1	max	0	8	1.406	8	.607	5	0	3	0	11	0	11
222			min	0	3	-1.094	3	-.558	2	0	8	0	1	0	1
223		2	max	436.619	8	584.895	4	422.557	1	0	3	.596	1	.848	3
224			min	114.235	3	-584.786	3	-422.527	2	0	8	-.596	2	-.849	4
225		3	max	540.615	8	93.13	4	738.016	5	.241	3	1.082	1	1.724	3
226			min	-34.639	3	-700.227	7	-127.556	2	-.437	4	-.468	2	-1.096	4
227		4	max	-16.435	9	42.998	3	43.058	2	0	5	.054	1	.054	3
228			min	-40.995	6	-43.214	4	-42.983	1	0	2	-.054	2	-.054	4
229		5	max	0	11	-.048	2	.386	7	0	5	0	11	0	11
230			min	0	1	-1.082	5	-.05	4	0	2	0	5	0	1
231	MP3B	1	max	0	2	.009	8	.004	8	0	3	0	11	0	11
232			min	0	5	-.008	3	-.004	3	0	8	0	1	0	1
233		2	max	125.488	4	562.816	4	-16.112	1	.142	8	.192	4	.061	3
234			min	-155.011	3	-381.602	3	-759.833	6	-.041	3	-.235	3	-.047	4
235		3	max	-149.499	2	580.608	4	-69.12	3	.142	8	.356	1	.549	3
236			min	-331.707	5	-399.393	3	-766.555	6	-.041	3	-1.01	6	-.762	4
237		4	max	-144.292	2	296.197	3	225.187	2	0	4	.063	1	.081	3
238			min	-315.551	5	-296.225	4	-225.469	1	0	3	-.063	2	-.081	4
239		5	max	0	2	.067	3	-.076	9	0	4	0	11	0	11
240			min	0	5	-.094	4	-.864	8	0	3	0	1	0	1
241	M32	1	max	683.37	3	438.934	5	856.552	8	1.023	8	.137	1	.14	4
242			min	-584.243	4	16.497	3	-315.329	3	.237	3	-.162	2	-.233	3
243		2	max	683.37	3	438.934	5	856.552	8	1.023	8	.122	1	.121	4
244			min	-584.243	4	16.497	3	-315.329	3	.237	3	-.115	2	-.234	3
245		3	max	683.37	3	438.934	5	856.552	8	1.023	8	.116	4	.103	4
246			min	-584.243	4	16.497	3	-315.329	3	.237	3	-.075	3	-.235	3
247		4	max	683.37	3	438.934	5	856.552	8	1.023	8	.169	4	.084	4
248			min	-584.243	4	16.497	3	-315.329	3	.237	3	-.095	3	-.24	7
249		5	max	683.37	3	438.934	5	856.552	8	1.023	8	.222	4	.066	4
250			min	-584.243	4	16.497	3	-315.329	3	.237	3	-.115	3	-.264	7
251	M33	1	max	482.023	3	862.389	7	658.74	2	.808	2	.2	1	1.126	4
252			min	-489.168	4	216.992	4	-621.258	1	-.71	1	-.186	2	-1.113	3
253		2	max	482.023	3	862.389	7	658.74	2	.808	2	.161	1	1.112	4
254			min	-489.168	4	216.992	4	-621.258	1	-.71	1	-.145	2	-1.14	3
255		3	max	482.023	3	862.389	7	658.74	2	.808	2	.122	1	1.099	4
256			min	-489.168	4	216.992	4	-621.258	1	-.71	1	-.104	2	-1.167	3
257		4	max	482.023	3	862.389	7	658.74	2	.808	2	.136	4	1.085	4
258			min	-489.168	4	216.992	4	-621.258	1	-.71	1	-.116	3	-1.195	3
259		5	max	482.023	3	862.389	7	658.74	2	.808	2	.165	4	1.072	4
260			min	-489.168	4	216.992	4	-621.258	1	-.71	1	-.143	3	-1.222	3
261	M34	1	max	890.717	3	914.423	8	362.086	2	-.3	1	.294	3	.345	4
262			min	-733.015	4	71.76	3	-1028.831	5	-1.237	6	-.384	4	-.502	3



9bj YcdYA Ya VYf GYVJcb: cfWVg fT cbhpi YXL

Member	Sec		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[k-...	LC	y-y Mome...	LC	z-z Mome...	LC	
263		2	max	890.717	3	914.423	8	362.086	2	-.3	1	.246	3	.315	4
264			min	-733.015	4	71.76	3	-1028.831	5	-1.237	6	-.376	4	-.507	3
265		3	max	890.717	3	914.423	8	362.086	2	-.3	1	.198	3	.285	4
266			min	-733.015	4	71.76	3	-1028.831	5	-1.237	6	-.368	4	-.511	3
267		4	max	890.717	3	914.423	8	362.086	2	-.3	1	.15	3	.256	4
268			min	-733.015	4	71.76	3	-1028.831	5	-1.237	6	-.361	4	-.516	3
269		5	max	890.717	3	914.423	8	362.086	2	-.3	1	.103	3	.226	4
270			min	-733.015	4	71.76	3	-1028.831	5	-1.237	6	-.387	8	-.52	3
271	MP2B	1	max	0	8	1.15	8	.49	1	0	3	0	11	0	11
272			min	0	3	-.898	3	-.407	2	0	8	0	1	0	1
273		2	max	170.862	8	180.649	4	131.563	1	0	3	.132	1	.181	3
274			min	74.948	3	-180.432	3	-131.48	2	0	8	-.132	2	-.182	4
275		3	max	796.341	7	594.881	4	561.516	1	.086	4	.248	4	.694	3
276			min	194.871	4	-571.193	3	-590.149	2	-.066	3	-.295	3	-.585	4
277		4	max	-13.148	4	34.497	3	34.472	2	0	8	.035	1	.035	3
278			min	-32.796	7	-34.534	4	-34.487	1	0	3	-.034	2	-.035	4
279		5	max	0	8	.037	3	.013	3	0	8	0	11	0	11
280			min	0	2	-.151	8	-.059	8	0	3	0	1	0	1
281	M36	1	max	0	11	0	11	0	11	0	11	0	11	0	11
282			min	0	1	0	1	0	1	0	1	0	1	0	1
283		2	max	-167.021	3	27.747	4	41.024	3	.13	1	.023	4	.006	4
284			min	-867.186	8	-153.659	7	-33.802	4	-.172	2	-.074	7	-.171	7
285		3	max	-263.878	1	215.93	8	100.509	1	.13	1	.115	2	.489	4
286			min	-867.186	8	-200.512	7	-118.667	2	-.172	2	-.119	1	.145	2
287		4	max	-55.457	4	195.212	4	48.913	1	.067	1	.152	1	.126	3
288			min	-851.291	7	-97.01	3	-67.071	2	-.046	2	-.222	2	-.246	4
289		5	max	0	11	0	11	0	11	0	11	0	11	0	11
290			min	0	1	0	1	0	1	0	1	0	1	0	1
291	M37	1	max	0	11	.006	3	.004	3	0	11	0	11	0	11
292			min	0	1	0	5	-.003	1	0	1	0	1	0	1
293		2	max	-215.718	9	16.91	3	41.567	4	.102	4	-.005	2	.024	3
294			min	-876.316	6	-177.725	5	-40.145	3	-.145	3	-.065	5	-.196	8
295		3	max	-233.854	9	251.034	2	34.442	1	.102	4	.059	1	.568	2
296			min	-898.744	5	-224.578	5	-88.35	3	-.145	3	-.115	4	.178	9
297		4	max	-44.757	2	235.936	2	43.717	4	.063	4	.114	4	.169	1
298			min	-890.303	5	-122.405	1	-49.653	3	-.035	3	-.171	3	-.314	2
299		5	max	0	11	.002	4	.008	3	0	11	0	11	0	11
300			min	0	1	-.006	2	-.005	1	0	1	0	1	0	1
301	M38	1	max	0	11	.005	1	0	5	0	11	0	11	0	11
302			min	0	1	-.003	4	-.003	4	0	1	0	1	0	1
303		2	max	-227.621	10	38.915	1	35.358	2	.067	3	.019	1	.031	1
304			min	-892.175	5	-186.171	6	-36.854	1	-.107	4	-.057	2	-.207	6
305		3	max	-229.856	10	250.793	5	85.616	3	.067	3	.056	4	.571	5
306			min	-971.445	6	-233.023	6	-40.012	1	-.107	4	-.091	1	.193	10
307		4	max	-55.646	1	212.152	3	46.919	3	.046	3	.155	3	.143	4
308			min	-963.003	6	-90.167	4	-55.512	4	-.02	4	-.216	4	-.294	3
309		5	max	0	11	0	9	.005	1	0	11	0	11	0	11
310			min	0	1	-.008	4	-.011	4	0	1	0	1	0	1
311	M39	1	max	63.526	3	172.663	1	-40.445	4	.502	7	.113	1	.071	1
312			min	-171.427	4	-120.47	2	-722.111	7	-.093	4	-.056	2	-.099	2
313		2	max	63.526	3	172.663	1	-40.445	4	.502	7	.106	1	.06	1
314			min	-171.427	4	-120.47	2	-722.111	7	-.093	4	-.08	2	-.091	2



9bj YcdYA Ya Vyf GYVjcb: cfWVg f7 cbh7bi YXL

Member	Sec		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[k-...	LC	y-y Mome...	LC	z-z Mome...	LC	
315		3	max	63.526	3	172.663	1	-40.445	4	.502	7	.099	1	.049	1
316			min	-171.427	4	-120.47	2	-722.111	7	-.093	4	-.103	2	-.084	2
317		4	max	63.526	3	172.663	1	-40.445	4	.502	7	.092	1	.039	1
318			min	-171.427	4	-120.47	2	-722.111	7	-.093	4	-.127	2	-.076	2
319		5	max	63.526	3	172.663	1	-40.445	4	.502	7	.084	1	.028	1
320			min	-171.427	4	-120.47	2	-722.111	7	-.093	4	-.15	2	-.068	2
321	M40	1	max	137.39	2	-63.251	3	378.115	4	.572	3	.142	1	.126	2
322			min	-112.35	1	-388.745	8	-377.579	3	-.556	4	-.16	2	-.063	1
323		2	max	137.39	2	-63.251	3	378.115	4	.572	3	.142	1	.131	2
324			min	-112.35	1	-388.745	8	-377.579	3	-.556	4	-.16	2	-.052	1
325		3	max	137.39	2	-63.251	3	378.115	4	.572	3	.142	1	.154	6
326			min	-112.35	1	-388.745	8	-377.579	3	-.556	4	-.16	2	-.041	1
327		4	max	137.39	2	-63.251	3	378.115	4	.572	3	.142	1	.176	6
328			min	-112.35	1	-388.745	8	-377.579	3	-.556	4	-.16	2	-.03	1
329		5	max	137.39	2	-63.251	3	378.115	4	.572	3	.142	1	.199	6
330			min	-112.35	1	-388.745	8	-377.579	3	-.556	4	-.16	2	-.019	1
331	M41	1	max	309.57	1	219.922	1	781.212	7	.425	3	.417	2	.246	2
332			min	-451.691	2	-156.731	2	101.495	4	-.688	4	-.373	1	-.253	1
333		2	max	309.57	1	219.922	1	781.212	7	.425	3	.439	2	.256	2
334			min	-451.691	2	-156.731	2	101.495	4	-.688	4	-.359	1	-.267	1
335		3	max	309.57	1	219.922	1	781.212	7	.425	3	.46	2	.265	2
336			min	-451.691	2	-156.731	2	101.495	4	-.688	4	-.346	1	-.28	1
337		4	max	309.57	1	219.922	1	781.212	7	.425	3	.482	2	.275	2
338			min	-451.691	2	-156.731	2	101.495	4	-.688	4	-.332	1	-.294	1
339		5	max	309.57	1	219.922	1	781.212	7	.425	3	.503	2	.285	2
340			min	-451.691	2	-156.731	2	101.495	4	-.688	4	-.319	1	-.308	1
341	M42	1	max	114.158	1	194.809	4	33.023	2	.597	5	.105	4	.048	4
342			min	-212.094	2	-123.383	3	-800.022	5	-.211	2	-.102	3	-.064	3
343		2	max	114.158	1	194.809	4	33.023	2	.597	5	.086	4	.035	4
344			min	-212.094	2	-123.383	3	-800.022	5	-.211	2	-.115	3	-.056	3
345		3	max	114.158	1	194.809	4	33.023	2	.597	5	.066	4	.023	4
346			min	-212.094	2	-123.383	3	-800.022	5	-.211	2	-.129	3	-.048	3
347		4	max	114.158	1	194.809	4	33.023	2	.597	5	.047	4	.011	4
348			min	-212.094	2	-123.383	3	-800.022	5	-.211	2	-.152	7	-.042	6
349		5	max	114.158	1	194.809	4	33.023	2	.597	5	.027	4	.012	1
350			min	-212.094	2	-123.383	3	-800.022	5	-.211	2	-.197	7	-.048	6
351	M43	1	max	86.138	3	-40.303	1	386.827	2	.652	1	.169	4	.116	7
352			min	-79.595	4	-442.073	6	-395.123	1	-.617	2	-.176	3	-.039	4
353		2	max	86.138	3	-40.303	1	386.827	2	.652	1	.157	4	.143	7
354			min	-79.595	4	-442.073	6	-395.123	1	-.617	2	-.164	3	-.03	4
355		3	max	86.138	3	-40.303	1	386.827	2	.652	1	.144	4	.169	7
356			min	-79.595	4	-442.073	6	-395.123	1	-.617	2	-.151	3	-.022	4
357		4	max	86.138	3	-40.303	1	386.827	2	.652	1	.131	4	.196	7
358			min	-79.595	4	-442.073	6	-395.123	1	-.617	2	-.139	3	-.014	4
359		5	max	86.138	3	-40.303	1	386.827	2	.652	1	.118	4	.222	7
360			min	-79.595	4	-442.073	6	-395.123	1	-.617	2	-.127	3	-.006	4
361	M44	1	max	208.441	4	194.675	2	831.905	5	.496	4	.325	3	.203	3
362			min	-353.036	3	-102.044	1	65.648	2	-.791	3	-.245	4	-.233	4
363		2	max	208.441	4	194.675	2	831.905	5	.496	4	.336	3	.206	3
364			min	-353.036	3	-102.044	1	65.648	2	-.791	3	-.219	4	-.241	4
365		3	max	208.441	4	194.675	2	831.905	5	.496	4	.347	3	.209	3
366			min	-353.036	3	-102.044	1	65.648	2	-.791	3	-.194	4	-.25	4



Company : Tower Engineering Solutions, LLC
 Designer :
 Job Number : TES Project No. 121465
 Model Name : CT02217-S-SBA_MT_LO_Loads Only_G

Jan 6, 2022
 10:11 AM
 Checked By: _____

9bj YcdYA Ya Vyf GYVjcb: cfWkg f7 cbh7bi YXL

Member	Sec		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[k-...	LC	y-y Mome...	LC	z-z Mome...	LC	
367		4	max	208.441	4	194.675	2	831.905	5	.496	4	.358	3	.212	3
368			min	-353.036	3	-102.044	1	65.648	2	-.791	3	-.168	4	-.258	4
369		5	max	208.441	4	194.675	2	831.905	5	.496	4	.369	3	.215	3
370			min	-353.036	3	-102.044	1	65.648	2	-.791	3	-.142	4	-.267	4
371	M45	1	max	113.217	4	176.168	3	42.63	3	.601	8	.073	2	.016	2
372			min	-212.35	3	-104.981	4	-798.889	8	-.216	3	-.047	1	-.04	1
373		2	max	113.217	4	176.168	3	42.63	3	.601	8	.053	3	.005	2
374			min	-212.35	3	-104.981	4	-798.889	8	-.216	3	-.061	4	-.042	5
375		3	max	113.217	4	176.168	3	42.63	3	.601	8	.056	3	-.005	2
376			min	-212.35	3	-104.981	4	-798.889	8	-.216	3	-.097	4	-.045	5
377		4	max	113.217	4	176.168	3	42.63	3	.601	8	.058	3	-.008	4
378			min	-212.35	3	-104.981	4	-798.889	8	-.216	3	-.132	4	-.05	7
379		5	max	113.217	4	176.168	3	42.63	3	.601	8	.061	3	-.002	4
380			min	-212.35	3	-104.981	4	-798.889	8	-.216	3	-.173	8	-.056	7
381	M46	1	max	118.548	4	-43.25	4	334.548	1	.626	2	.114	2	.107	8
382			min	-111.383	3	-454.644	7	-372.021	2	-.612	1	-.128	1	-.021	3
383		2	max	118.548	4	-43.25	4	334.548	1	.626	2	.091	2	.133	8
384			min	-111.383	3	-454.644	7	-372.021	2	-.612	1	-.107	1	-.005	3
385		3	max	118.548	4	-43.25	4	334.548	1	.626	2	.068	2	.158	8
386			min	-111.383	3	-454.644	7	-372.021	2	-.612	1	-.086	1	.011	3
387		4	max	118.548	4	-43.25	4	334.548	1	.626	2	.078	3	.184	8
388			min	-111.383	3	-454.644	7	-372.021	2	-.612	1	-.098	4	.019	2
389		5	max	118.548	4	-43.25	4	334.548	1	.626	2	.092	3	.21	8
390			min	-111.383	3	-454.644	7	-372.021	2	-.612	1	-.114	4	.026	2
391	M47	1	max	275.454	3	251.518	3	901.349	8	.53	2	.377	4	.122	1
392			min	-433.174	4	-158.353	4	90.295	3	-.842	1	-.286	3	-.152	2
393		2	max	275.454	3	251.518	3	901.349	8	.53	2	.412	4	.118	1
394			min	-433.174	4	-158.353	4	90.295	3	-.842	1	-.281	3	-.154	2
395		3	max	275.454	3	251.518	3	901.349	8	.53	2	.446	4	.123	4
396			min	-433.174	4	-158.353	4	90.295	3	-.842	1	-.275	3	-.163	3
397		4	max	275.454	3	251.518	3	901.349	8	.53	2	.48	4	.133	4
398			min	-433.174	4	-158.353	4	90.295	3	-.842	1	-.269	3	-.179	3
399		5	max	275.454	3	251.518	3	901.349	8	.53	2	.514	4	.143	4
400			min	-433.174	4	-158.353	4	90.295	3	-.842	1	-.264	3	-.195	3
401	M48	1	max	214.641	3	208.683	4	137.324	2	.014	4	.115	4	.093	1
402			min	-359.303	4	-163.901	3	-128.859	1	-.014	3	-.059	3	-.189	2
403		2	max	218.471	3	215.316	4	138.871	2	.014	4	.14	4	.034	1
404			min	-363.132	4	-170.534	3	-127.312	1	-.014	3	-.073	3	-.167	6
405		3	max	222.3	3	221.949	4	140.418	2	.014	4	.167	4	.048	3
406			min	-366.962	4	-177.167	3	-125.764	1	-.014	3	-.088	3	-.182	8
407		4	max	226.13	3	228.582	4	141.966	2	.014	4	.195	4	.114	3
408			min	-370.791	4	-183.8	3	-124.217	1	-.014	3	-.104	3	-.244	4
409		5	max	229.959	3	235.215	4	143.513	2	.014	4	.225	4	.181	3
410			min	-374.621	4	-190.433	3	-122.67	1	-.014	3	-.12	3	-.322	4
411	M49	1	max	261.213	1	144.682	2	208.337	1	.021	2	.318	2	.186	2
412			min	-388.616	2	-160.328	1	-231.928	2	-.02	1	-.198	1	-.147	1
413		2	max	257.384	1	146.23	2	206.126	1	.021	2	.275	2	.1	2
414			min	-384.786	2	-158.781	1	-229.717	2	-.02	1	-.166	1	-.06	1
415		3	max	253.554	1	147.777	2	203.915	1	.021	2	.234	2	.054	7
416			min	-380.957	2	-157.233	1	-227.506	2	-.02	1	-.134	1	.012	4
417		4	max	249.725	1	149.325	2	201.704	1	.021	2	.194	2	.111	1
418			min	-377.127	2	-155.686	1	-225.295	2	-.02	1	-.102	1	-.075	2



9bj YcdYA Ya VYf GYVJcb: cfWVg f7 cbh7bi YXL

Member	Sec		Axial [lb]	LC	y Shear [lb]	LC	z Shear [lb]	LC	Torque [k-...]	LC	y-y Mome...	LC	z-z Mome...	LC	
419		5	max	245.895	1	150.872	2	199.493	1	.021	2	.155	2	.195	1
420			min	-373.298	2	-154.138	1	-223.084	2	-.02	1	-.071	1	-.162	2
421	M50	1	max	151.977	4	180.096	3	187.39	4	.016	3	.181	3	.059	3
422			min	-290.232	3	-142.784	4	-179.714	3	-.016	4	-.125	4	-.154	4
423		2	max	151.977	4	180.096	3	188.938	4	.016	3	.161	3	-.008	2
424			min	-290.232	3	-142.784	4	-178.166	3	-.016	4	-.095	4	-.151	5
425		3	max	151.977	4	180.096	3	190.485	4	.016	3	.142	3	.003	2
426			min	-290.232	3	-142.784	4	-176.619	3	-.016	4	-.065	4	-.167	5
427		4	max	151.977	4	180.096	3	192.032	4	.016	3	.143	5	.081	4
428			min	-290.232	3	-142.784	4	-175.071	3	-.016	4	-.043	2	-.203	3
429		5	max	151.977	4	180.096	3	193.58	4	.016	3	.17	5	.16	4
430			min	-290.232	3	-142.784	4	-173.524	3	-.016	4	-.062	2	-.29	3
431	M49A	1	max	3247.117	3	3282.356	8	1448.908	2	.503	2	2.134	1	8.872	8
432			min	-3159.404	4	507.276	3	-1450.249	1	-.548	1	-2.133	2	.944	3
433		2	max	3218.644	3	3232.395	8	1399.59	2	.503	2	.472	3	3.511	8
434			min	-3130.93	4	482.917	3	-1400.932	1	-.548	1	-.472	4	.129	3
435		3	max	1446.652	3	361.681	9	175.101	2	.361	3	.099	4	1.023	9
436			min	-1449.294	4	-11.215	3	-157.247	1	-.348	4	-.131	3	-.183	3
437		4	max	1418.178	3	319.194	9	125.783	2	.361	3	.143	2	.464	9
438			min	-1420.821	4	-53.703	3	-107.93	1	-.348	4	-.148	1	-.128	3
439		5	max	1389.705	3	286.521	9	91.82	3	.361	3	.31	2	-.009	1
440			min	-1392.347	4	-86.376	3	-74.232	4	-.348	4	-.285	1	-.084	6
441	M50A	1	max	2952.198	4	3217.819	7	1908.284	1	.603	1	3.006	2	8.869	7
442			min	-2866.25	3	479.99	4	-1907.425	2	-.694	2	-3.005	1	1.05	4
443		2	max	2923.724	4	3167.858	7	1858.967	1	.603	1	.366	3	3.614	7
444			min	-2837.777	3	455.632	4	-1858.108	2	-.694	2	-.364	4	.28	4
445		3	max	1448.432	4	376.81	10	164.5	1	.479	1	.082	4	1.065	10
446			min	-1445.106	3	1.387	1	-153.603	2	-.574	2	-.106	3	-.154	1
447		4	max	1419.959	4	334.322	10	115.182	1	.479	1	.211	1	.481	10
448			min	-1416.633	3	-41.101	1	-104.285	2	-.574	2	-.215	2	-.12	1
449		5	max	1391.485	4	301.65	10	70.932	3	.479	1	.36	1	-.008	4
450			min	-1388.159	3	-73.774	1	-59.517	4	-.574	2	-.346	2	-.095	7

9bj YcdY5-G7 % H fl * \$!%\$L @F: 8 GNY 7cXY7\ YWg

Member	Shape	Code Check	Loc...L...	Shear Check	Loc.....	L...phi*Pn...	phi*Pn...	phi*Mn...	phi*Mn.....	Eqn		
1	MP1A	PIPE_2.5	.564	5.104 1	.206	5.104	2	22373...	50715	3.596	3.596	1...H1-1b
2	M1	PIPE_3.0	.277	4.984 8	.186	4.984	2	21266...	65205	5.749	5.749	3...H1-1b
3	MP3A	PIPE_2.0	.541	2.5 7	.186	.521	6	23808...	32130	1.872	1.872	1...H1-1b
4	MP3B	PIPE_2.0	.571	2.5 6	.170	2.5	8	23808...	32130	1.872	1.872	1...H1-1b
5	MP3C	PIPE_2.0	.565	2.5 5	.168	2.5	5	23808...	32130	1.872	1.872	1...H1-1b
6	M36	PIPE_2.0	.402	12... 2	.167	14...	2	4678.5...	32130	1.872	1.872	2...H1-1b
7	MP1C	PIPE_2.5	.437	5.104 3	.165	5.104	3	22373...	50715	3.596	3.596	1...H1-1b
8	M3	PIPE_3.0	.300	4.984 5	.163	4.984	4	21266...	65205	5.749	5.749	2...H1-1b
9	MP1B	PIPE_2.5	.496	5.104 3	.163	3.229	8	22373...	50715	3.596	3.596	1...H1-1b
10	M37	PIPE_2.0	.346	12... 3	.141	14...	3	4678.5...	32130	1.872	1.872	1...H1-1b
11	M49	L2.5x2x4	.503	0 2	.136	0	z 2	31842...	34668	.803	1.945	2...H2-1
12	M2	PIPE_3.0	.287	4.984 7	.136	9.516	4	21266...	65205	5.749	5.749	2...H1-1b
13	M6	HSS4X4X4	.545	0 7	.116	0	z 3	11637...	139518	16.181	16.181	3...H1-1b
14	M50	L2.5x2x4	.319	1.417 5	.106	0	z 3	31842...	34668	.803	1.945	1...H2-1
15	M50A	HSS4X4X4	.585	0 6	.105	0	y 6	11637...	139518	16.181	16.181	3...H1-1b




Company : Tower Engineering Solutions, LLC
 Designer :
 Job Number : TES Project No. 121465
 Model Name : CT02217-S-SBA_MT_LO_Loads Only_G

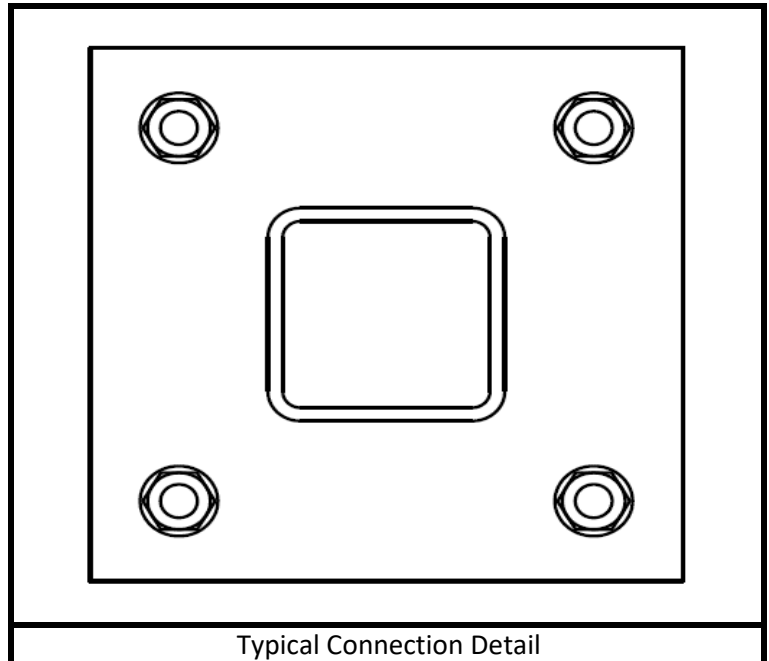
Jan 6, 2022
 10:11 AM
 Checked By: _____

9bj YcdY5=G7 % h fl * \$!%\$L @F : 8 GhYY 7cXY7\ YWg'f7 cbhjbi YXL

Member	Shape	Code Check	Loc...L...	Shear Check	Loc.....	L...phi*Pn...	phi*Pn...	phi*Mn...	phi*Mn.....	Eqn	
16	M49A	HSS4X4X4	.572	0 6	.100	0 y 8	11637...	139518	16.181	16.181	3...H1-1b
17	M48	L2.5x2x4	.457	1.417 4	.097	1.417 y 4	31842...	34668	.803	1.945	1...H2-1
18	M38	PIPE_2.0	.331	12.... 3	.093	14.... 4	4678.5...	32130	1.872	1.872	1...H1-1b
19	MP2A	PIPE_2.5	.434	5.167 1	.088	5.167 2	30038...	50715	3.596	3.596	1...H1-1b
20	MP2C	PIPE_2.5	.359	5.167 4	.084	5.167 3	30038...	50715	3.596	3.596	2...H1-1b
21	M8	HSS4X4X4	.257	2.95 3	.079	2.95 y 6	12060...	139518	16.181	16.181	1...H1-1b
22	M9	HSS4X4X4	.276	2.95 1	.078	2.95 y 7	12060...	139518	16.181	16.181	1...H1-1b
23	M7	HSS4X4X4	.295	2.95 4	.076	2.95 y 8	12060...	139518	16.181	16.181	1...H1-1b
24	M11	PL1/2x6	.381	.737 2	.071	.737 y 6	44378.4	97200	1.012	12.15	1...H1-1b
25	M10	PL1/2x6	.403	.737 4	.070	.722 y 6	44378.4	97200	1.012	12.15	1...H1-1b
26	MP2B	PIPE_2.5	.390	5.167 3	.069	5.167 4	30038...	50715	3.596	3.596	2...H1-1b
27	M12	PL1/2x6	.348	.737 1	.064	.737 y 8	44378.4	97200	1.012	12.15	1...H1-1b

	Standoff Arm Flange Connection Check		Date	
			1/6/2022	
	Customer:	SBA	TIA Standard:	ANSI/TIA-222-G
	Carrier:	T-Mobile	Mount Elev. [ft]:	147
	Site Name:	Pomfret School	Engineer Name:	Sandesh Khawas Bhujel
Site Number:	CT02217-S-SA	Project #:	121465	
<p><i>NOTE: The calculations shown below are for a single representative load combination for example purposes. The results for all load combinations are presented in the Results Summary Table.</i></p>				


RISA Member Label =	M49A	
I or J End?	I	
Load Combination # =	8	
Plate Width, Wp =	10	[In]
Plate Height, Hp =	10	[In]
Plate Thickness, tp =	0.65	[In]
Plate Fy =	36	[KSI]
Bolt Diameter, db =	1.25	[In]
Bolt Fu =	120	[KSI]
Bolt Horizontal Spacing, Sbh =	7	[In]
Bolt Vertical Spacing, Sbv =	7	[In]
Standoff Member Shape =	Rect Tube	
Member Width, Wm =	4	[In]
Member Depth, Dm =	4	[In]
Member Thickness, tm =	0.25	[In]
Standoff Weld Size =	0.1875	[In]
# Standoff Welds =	2	
Length of Stiffener, Ls =		[In]
Width of Stiffener, Ws =		[In]
Width of Notch, Wn =		[In]
Stiffener Dim 1, ds1 =		[In]
Stiffener Dim 2, ds2 =		[In]
Stiffener Fy =		[KSI]
Stiffener Weld Size =		[In]
# Stiffener Welds =		



NOTES
Standoff and Stiffener welds are assumed 0.1875 in.

Capacity Checks:

Max Bolt Shear =	0.909	[Kips]
Bolt Shear Capacity =	55.22	[Kips]
Max Bolt Shear Usage =	1.6%	PASS
Max Bolt Tension =	7.83	[Kips]
Bolt Tension Capacity =	87.22	[Kips]
Max Bolt Tension Usage =	9.0%	PASS
Max Bolt Interaction =	9.1%	PASS
Max Plate Bending Moment =	23.07	[Kip-In]
Length of Yield Line =	9.06	[In]
Plate Moment Capacity =	30.99	[Kip-In]
Max Plate Usage =	74.5%	PASS
Max Weld Usage =	62.0%	PASS

	Standoff Arm Flange Connection Check			Date
				1/6/2022
	Customer:	SBA	TIA Standard:	ANSI/TIA-222-G
	Carrier:	T-Mobile	Mount Elev. [ft]:	147
	Site Name:	Pomfret School	Engineer Name:	Sandesh Khawas Bhujel
Site Number:	CT02217-S-SA	Project #:	121465	

Results Summary Table

Member Label	Member End	Load Combo #	Max Bolt Shear [K]	Max Bolt Tension [K]	Bolt Shear Check	Bolt Tension Check	Bolt Interaction Check	Plate Bending Check	Weld Check
M6	I	1	0.5713	5.5822	1.0%	6.4%	6.5%	53.7%	42.1%
M6	I	2	0.0975	0.0000	0.2%	0.0%	0.2%	0.0%	9.0%
M6	I	3	1.0868	5.9096	2.0%	6.8%	7.0%	52.5%	47.3%
M6	I	4	1.0095	5.5687	1.8%	6.4%	6.6%	49.4%	9.5%
M6	I	5	0.9112	7.4017	1.7%	8.5%	8.6%	71.6%	58.5%
M6	I	6	0.8091	6.0720	1.5%	7.0%	7.1%	58.8%	51.6%
M6	I	7	0.9560	7.4764	1.7%	8.6%	8.7%	66.4%	59.8%
M6	I	8	0.8108	7.4319	1.5%	8.5%	8.6%	66.0%	48.1%
M6	I	9	0.3127	2.3216	0.6%	2.7%	2.7%	22.3%	18.1%
M6	I	10	0.3998	2.3361	0.7%	2.7%	2.8%	22.5%	18.5%
M6	I	11	0.3745	2.9511	0.7%	3.4%	3.5%	28.6%	23.6%
M49A	I	1	0.7310	3.0323	1.3%	3.5%	3.6%	26.9%	30.1%
M49A	I	2	0.8469	5.9411	1.5%	6.8%	6.9%	52.7%	18.5%
M49A	I	3	0.5130	0.6211	0.9%	0.7%	1.0%	5.5%	7.2%
M49A	I	4	0.8056	5.9762	1.5%	6.9%	6.9%	53.1%	46.1%
M49A	I	5	0.8716	7.2632	1.6%	8.3%	8.4%	66.1%	59.5%
M49A	I	6	0.8247	7.9201	1.5%	9.1%	9.2%	72.4%	55.8%
M49A	I	7	0.7551	6.7579	1.4%	7.7%	7.9%	64.0%	54.3%
M49A	I	8	0.9095	7.8260	1.6%	9.0%	9.1%	74.5%	62.0%
M49A	I	9	0.5512	5.7178	1.0%	6.6%	6.6%	53.6%	46.2%
M49A	I	10	0.3689	2.4046	0.7%	2.8%	2.8%	21.7%	20.0%
M49A	I	11	0.3605	3.1298	0.7%	3.6%	3.6%	30.3%	25.0%
M50A	I	1	0.8608	3.4912	1.6%	4.0%	4.2%	31.0%	13.2%
M50A	I	2	1.0333	6.9751	1.9%	8.0%	8.1%	61.9%	54.8%
M50A	I	3	0.5907	5.4488	1.1%	6.2%	6.3%	50.3%	37.9%
M50A	I	4	0.3464	0.4184	0.6%	0.5%	0.6%	3.7%	13.8%
M50A	I	5	0.7720	7.3535	1.4%	8.4%	8.5%	65.7%	51.4%
M50A	I	6	0.9504	8.1140	1.7%	9.3%	9.4%	73.0%	64.4%
M50A	I	7	0.8539	7.7474	1.5%	8.9%	9.0%	74.3%	60.2%
M50A	I	8	0.8415	6.7371	1.5%	7.7%	7.8%	64.4%	56.3%
M50A	I	9	0.3860	2.4625	0.7%	2.8%	2.9%	21.9%	16.8%
M50A	I	10	0.5961	5.7738	1.1%	6.6%	6.7%	53.4%	42.8%
M50A	I	11	0.3666	3.1352	0.7%	3.6%	3.6%	30.3%	25.1%

EXHIBIT 9
EME Report

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

T-Mobile Existing Facility

Site ID: CT11525A

CT525/SBA Pomfret #2
398 Pomfret Street
Pomfret, Connecticut 06259

January 27, 2022

EBI Project Number: 6222000660

Site Compliance Summary	
Compliance Status:	COMPLIANT
Site total MPE% of FCC general population allowable limit:	15.87%

January 27, 2022

T-Mobile

Attn: Jason Overbey, RF Manager
35 Griffin Road South
Bloomfield, Connecticut 06002

Emissions Analysis for Site: CT11525A - CT525/SBA Pomfret #2

EBI Consulting was directed to analyze the proposed T-Mobile facility located at **398 Pomfret Street in Pomfret, Connecticut** 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 600 MHz and 700 MHz frequency bands are approximately $400 \mu\text{W}/\text{cm}^2$ and $467 \mu\text{W}/\text{cm}^2$, respectively. The general population exposure limit for the 1900 MHz (PCS), 2100 MHz (AWS) and 11 GHz frequency 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 in Pomfret, Connecticut 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 manufacturer's supplied specifications, minus 10 dB for directional panel antennas and 20 dB for highly focused parabolic microwave dishes, 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 power density calculations, the broadcast footprint of the AIR6449 antenna has been considered. Due to the beamforming nature of this antenna, the actual beam locations vary depending on demand and are narrow in nature. Using the broadcast footprint accounts for the potential location of beams at any given time.

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

- 1) 2 LTE channels (600 MHz Band) were considered for each sector of the proposed installation. These Channels have a transmit power of 30 Watts per Channel.
- 2) 1 NR channel (600 MHz Band) was considered for each sector of the proposed installation. This Channel has a transmit power of 80 Watts.
- 3) 2 LTE channels (700 MHz Band) were considered for each sector of the proposed installation. These Channels have a transmit power of 30 Watts per Channel.
- 4) 4 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.
- 5) 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.

- 6) 2 LTE channels (AWS Band – 2100 MHz) were considered for each sector of the proposed installation. These Channels have a transmit power of 60 Watts per Channel.
- 7) 1 LTE Traffic channel (LTE IC and 2C BRS Band - 2500 MHz) was considered for each sector of the proposed installation. This Channel has a transmit power of 60 Watts.
- 8) 1 LTE Broadcast channel (LTE IC and 2C BRS Band - 2500 MHz) was considered for each sector of the proposed installation. This Channel has a transmit power of 20 Watts.
- 9) 1 NR Traffic channel (BRS Band - 2500 MHz) was considered for each sector of the proposed installation. This Channel has a transmit power of 120 Watts.
- 10) 1 NR Broadcast channel (BRS Band - 2500 MHz) was considered for each sector of the proposed installation. This Channel has a transmit power of 40 Watts.
- 11) 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.
- 12) 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 manufacturer's supplied specifications, minus 10 dB for directional panel antennas and 20 dB for highly focused parabolic microwave dishes, 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.
- 13) The antennas used in this modeling are the RFS APXVAARR24_43-U-NA20 for the 600 MHz / 600 MHz / 700 MHz channel(s), the Ericsson AIR 6449 for the 2500 MHz / 2500 MHz / 2500 MHz / 2500 MHz channel(s), the Commscope VV-65A-RI for the 1900 MHz / 1900 MHz / 2100 MHz channel(s) in Sector A, the RFS APXVAARR24_43-U-NA20 for the 600 MHz / 600 MHz / 700 MHz channel(s), the Ericsson AIR 6449 for the 2500 MHz / 2500 MHz / 2500 MHz / 2500 MHz channel(s), the Commscope VV-65A-RI for the 1900 MHz / 1900 MHz / 2100 MHz channel(s) in Sector B, the RFS APXVAARR24_43-U-NA20 for the 600 MHz / 600 MHz / 700 MHz channel(s), the Ericsson AIR 6449 for the 2500 MHz / 2500 MHz / 2500 MHz / 2500 MHz channel(s), the Commscope VV-65A-RI for the 1900 MHz / 1900 MHz / 2100 MHz channel(s) in Sector C. This is based on feedback from the carrier with regard to anticipated antenna selection. All Antenna gain values and associated transmit power levels are shown in

the Site Inventory and Power Data table below. The maximum gain of the antenna per the antenna manufacturer's supplied specifications, minus 10 dB for directional panel antennas and 20 dB for highly focused parabolic microwave dishes, 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.

- 14) The antenna mounting height centerline of the proposed antennas is 147 feet above ground level (AGL).
- 15) 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.
- 16) 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 APXVAARR24_43- U-NA20	Make / Model:	RFS APXVAARR24_43- U-NA20	Make / Model:	RFS APXVAARR24_43- U-NA20
Frequency Bands:	600 MHz / 600 MHz / 700 MHz	Frequency Bands:	600 MHz / 600 MHz / 700 MHz	Frequency Bands:	600 MHz / 600 MHz / 700 MHz
Gain:	12.95 dBd / 12.95 dBd / 13.35 dBd	Gain:	12.95 dBd / 12.95 dBd / 13.35 dBd	Gain:	12.95 dBd / 12.95 dBd / 13.35 dBd
Height (AGL):	147 feet	Height (AGL):	147 feet	Height (AGL):	147 feet
Channel Count:	5	Channel Count:	5	Channel Count:	5
Total TX Power (W):	200 Watts	Total TX Power (W):	200 Watts	Total TX Power (W):	200 Watts
ERP (W):	4,059.02	ERP (W):	4,059.02	ERP (W):	4,059.02
Antenna A1 MPE %:	1.75%	Antenna B1 MPE %:	1.75%	Antenna C1 MPE %:	1.75%
Antenna #:	2	Antenna #:	2	Antenna #:	2
Make / Model:	Ericsson AIR 6449	Make / Model:	Ericsson AIR 6449	Make / Model:	Ericsson AIR 6449
Frequency Bands:	2500 MHz / 2500 MHz / 2500 MHz / 2500 MHz	Frequency Bands:	2500 MHz / 2500 MHz / 2500 MHz / 2500 MHz	Frequency Bands:	2500 MHz / 2500 MHz / 2500 MHz / 2500 MHz
Gain:	22.65 dBd / 17.3 dBd / 22.65 dBd / 17.3 dBd	Gain:	22.65 dBd / 17.3 dBd / 22.65 dBd / 17.3 dBd	Gain:	22.65 dBd / 17.3 dBd / 22.65 dBd / 17.3 dBd
Height (AGL):	147 feet	Height (AGL):	147 feet	Height (AGL):	147 feet
Channel Count:	4	Channel Count:	4	Channel Count:	4
Total TX Power (W):	240 Watts	Total TX Power (W):	240 Watts	Total TX Power (W):	240 Watts
ERP (W):	36,356.09	ERP (W):	36,356.09	ERP (W):	36,356.09
Antenna A2 MPE %:	6.57%	Antenna B2 MPE %:	6.57%	Antenna C2 MPE %:	6.57%
Antenna #:	3	Antenna #:	3	Antenna #:	3
Make / Model:	Commscope VV-65A- RI	Make / Model:	Commscope VV-65A- RI	Make / Model:	Commscope VV-65A- RI
Frequency Bands:	1900 MHz / 1900 MHz / 2100 MHz	Frequency Bands:	1900 MHz / 1900 MHz / 2100 MHz	Frequency Bands:	1900 MHz / 1900 MHz / 2100 MHz
Gain:	15.55 dBd / 15.55 dBd / 16.05 dBd	Gain:	15.55 dBd / 15.55 dBd / 16.05 dBd	Gain:	15.55 dBd / 15.55 dBd / 16.05 dBd
Height (AGL):	147 feet	Height (AGL):	147 feet	Height (AGL):	147 feet
Channel Count:	8	Channel Count:	8	Channel Count:	8
Total TX Power (W):	360 Watts	Total TX Power (W):	360 Watts	Total TX Power (W):	360 Watts
ERP (W):	13,446.73	ERP (W):	13,446.73	ERP (W):	13,446.73
Antenna A3 MPE %:	2.43%	Antenna B3 MPE %:	2.43%	Antenna C3 MPE %:	2.43%

Site Composite MPE %	
Carrier	MPE %
T-Mobile (Max at Sector A):	10.76%
Verizon	2.98%
Sprint	2.13%
Site Total MPE % :	15.87%

T-Mobile MPE % Per Sector	
T-Mobile Sector A Total:	10.76%
T-Mobile Sector B Total:	10.76%
T-Mobile Sector C Total:	10.76%
Site Total MPE % :	15.87%

T-Mobile Maximum MPE Power Values (Sector A)

T-Mobile Frequency Band / Technology (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 600 MHz LTE	2	591.73	147.0	2.14	600 MHz LTE	400	0.54%
T-Mobile 600 MHz NR	1	1577.94	147.0	2.85	600 MHz NR	400	0.71%
T-Mobile 700 MHz LTE	2	648.82	147.0	2.35	700 MHz LTE	467	0.50%
T-Mobile 2500 MHz LTE IC & 2C Traffic	1	11044.63	147.0	19.97	2500 MHz LTE IC & 2C Traffic	1000	2.00%
T-Mobile 2500 MHz LTE IC & 2C Broadcast	1	1074.06	147.0	1.94	2500 MHz LTE IC & 2C Broadcast	1000	0.19%
T-Mobile 2500 MHz NR Traffic	1	22089.26	147.0	39.94	2500 MHz NR Traffic	1000	3.99%
T-Mobile 2500 MHz NR Broadcast	1	2148.13	147.0	3.88	2500 MHz NR Broadcast	1000	0.39%
T-Mobile 1900 MHz GSM	4	1076.77	147.0	7.79	1900 MHz GSM	1000	0.78%
T-Mobile 1900 MHz LTE	2	2153.53	147.0	7.79	1900 MHz LTE	1000	0.78%
T-Mobile 2100 MHz LTE	2	2416.30	147.0	8.74	2100 MHz LTE	1000	0.87%
						Total:	10.76%

• NOTE: Totals may vary by approximately 0.01% due to summation of remainders in calculations.

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:	10.76%
Sector B:	10.76%
Sector C:	10.76%
T-Mobile Maximum MPE % (Sector A):	10.76%
Site Total:	15.87%
Site Compliance Status:	COMPLIANT

The anticipated composite MPE value for this site assuming all carriers present is **15.87%** 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.