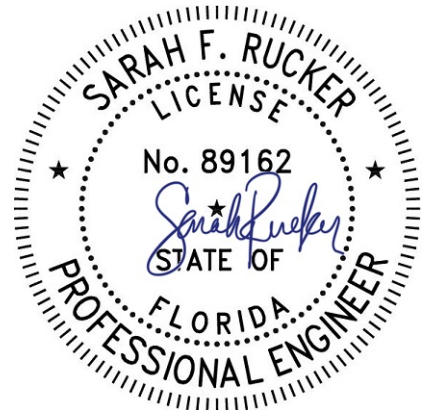




## Structural Analysis Report

**Structure** : 330 ft Guyed Tower  
**ATC Asset Name** : Five Points  
**ATC Asset Number** : 2543  
**Engineering Number** : 14910189\_C3\_03  
**Proposed Carrier** : T-MOBILE  
**Carrier Site Name** : Five Points I10  
**Carrier Site Number** : 9JK0230A  
**Site Location** : Hwy 441 & I-10  
Lake City, FL 32055-4662  
30.2382° N, 82.6368° W  
**County** : Columbia  
**Date** : October 31, 2024  
**Max Usage** : 70%  
**Analysis Result** : Pass



This item has been electronically signed and sealed by Sarah F. Rucker, PE on the date shown using a digital signature. Printed copies are not considered signed and sealed and the signature must be verified on any electronic copies.

**COA: 9053**

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## **Introduction**

The purpose of this report is to summarize results of a structural analysis performed on the 330 ft Guyed tower to reflect the change in loading by T-MOBILE.

## **Supporting Documents**

|                      |                                                |
|----------------------|------------------------------------------------|
| <b>Tower:</b>        | FWT Job #15446, dated November 5, 1997         |
| <b>Foundation:</b>   | FWT Job #15446, dated November 5, 1997         |
| <b>Geotechnical:</b> | FTE Project #97-2996, dated September 10, 1997 |

## **Analysis**

The tower was analyzed using American Tower Corporation's tower analysis software. This program considers an elastic three-dimensional model and second-order effects per ANSI/TIA-222.

|                                      |                                                                 |
|--------------------------------------|-----------------------------------------------------------------|
| <b>Basic Wind Speed:</b>             | 119 mph (3-second gust)                                         |
| <b>Basic Wind Speed w/ Ice:</b>      | No Ice Considered                                               |
| <b>Code(s):</b>                      | ANSI/TIA-222-H / 2021 IBC / 8th ED (2023) Florida Building Code |
| <b>Exposure Category:</b>            | C                                                               |
| <b>Risk Category:</b>                | II                                                              |
| <b>Topographic Factor Procedure:</b> | Method 1                                                        |
| <b>Topographic Category:</b>         | 1                                                               |
| <b>Spectral Response:</b>            | $S_s = 0.09$ , $S_i = 0.05$                                     |
| <b>Site Class:</b>                   | D - Stiff Soil - Default                                        |

## **Conclusion**

Based on the analysis results, the structure meets the requirements per the applicable codes listed above. The tower and foundation can support the equipment as described in this report.

If you have any questions or require additional information, please reach out to your American Tower contact. If you do not have an American Tower contact and have an Engineering question, please contact [Engineering@americantower.com](mailto:Engineering@americantower.com). Please include the American Tower asset name, asset number, and engineering number in the subject line for any questions.

### Structure Usages

| Structural Component | Usage | Control     | Location         | Result |
|----------------------|-------|-------------|------------------|--------|
| Leg                  | 55.7% | Member X    | Section 8        | Pass   |
| Diagonal             | 70.1% | Member      | Section 14       | Pass   |
| Horizontal           | 53.0% | Member      | Section 1        | Pass   |
| Bolt                 | 22.4% | -           | Section 18       | Pass   |
| Torque Arm           | 35.3% | Compression | Elevation 168 ft | Pass   |
| Cable                | 51.0% | Tension     | Elevation 168 ft | Pass   |
| Serviceability Usage | 13.1% | Rotation    | Elevation 288 ft | Pass   |
| Foundation           | 43.0% | Shear       | Anchor 1         | Pass   |
| Foundation           | 43.1% | Uplift      | Anchor 1         | Pass   |
| Foundation           | 47.9% | Axial       | Base             | Pass   |
| Foundation           | 20.0% | Shear       | Base             | Pass   |

### Maximum Reactions

| Foundation         | Moment (k-ft) | Axial (k) | Uplift (k) | Shear (k) |
|--------------------|---------------|-----------|------------|-----------|
| Guyed – Pivot Base | -             | 222.4     | -          | 1.9       |
| Guyed Anchor - A1  | -             | -         | 94.8       | 100.4     |

*\*Reactions shown are maximum overall and not limited by Load Case*

Foundation usages were calculated by comparing the maximum reactions from this analysis to the reactions from the original design drawings, factored by 1.35 per ANSI/TIA-222-H, Section 15.6.2

### T-MOBILE Final Loading

| Elev (ft) | Qty | Equipment                   | Lines                     |
|-----------|-----|-----------------------------|---------------------------|
| 300.3     | 3   | Ericsson Radio 4460 B25+B66 | -                         |
| 300.0     | -   | -                           | (2) 1.99" (50.7mm) Hybrid |
| 295.0     | 3   | Commscope FFVV-65C-R3-V1    | -                         |
|           | 3   | Ericsson AIR 6419 B41       |                           |
|           | 3   | Ericsson Radio 4480 B71+B85 |                           |
|           | 3   | Sector Frame                |                           |

Install proposed lines in the place of the existing T-MOBILE lines.

### Other Existing/Reserved Loading

| Elev (ft) | Qty | Equipment                    | Lines                                    | Carrier                           |
|-----------|-----|------------------------------|------------------------------------------|-----------------------------------|
| 304.0     | 1   | Side Arm                     | -                                        | HARRIS CORPORATION                |
| 300.0     | 1   | Side Arm                     | -                                        | HARRIS CORPORATION                |
| 291.0     | -   | -                            | (1) 1 5/8" Coax                          | M/A COM PRIVATE RADIO SYSTEMS INC |
| 290.0     | 1   | Combilent CP00732            | (1) 1/2" Coax<br>(1) 7/8" Coax           | STATE OF FLORIDA                  |
|           | 1   | Stand-Off                    |                                          |                                   |
|           | 1   | Sinclair SE414-SWBPALDF(DXX) |                                          |                                   |
| 283.0     | 1   | RFS PAD6-65AC                | (1) EW65                                 | STATE OF FLORIDA                  |
| 282.4     | 1   | 8' Dish w/ Radome            | -                                        | M/A COM PRIVATE RADIO SYSTEMS INC |
| 282.0     | -   | -                            | (1) EW52                                 | M/A COM PRIVATE RADIO SYSTEMS INC |
| 279.0     | -   | -                            | (2) 1/2" Coax                            | M/A COM PRIVATE RADIO SYSTEMS INC |
| 276.0     | 2   | Sinclair SE414-SWBPALDF(DXX) | (2) 1 5/8" Coax                          | STATE OF FLORIDA                  |
| 275.0     | 1   | Side Arm                     | -                                        | STATE OF FLORIDA                  |
| 258.0     | 2   | JMA Wireless MX06FRO860-02   | (10) 1 5/8" Coax<br>(2) 1 5/8" Hybriflex | VERIZON WIRELESS                  |
|           | 2   | Raycap RCMDC-6627-PF-48      |                                          |                                   |
|           | 3   | Commscope TD-850B-LTE78-43   |                                          |                                   |
|           | 3   | Ericsson 8843 Rev 2          |                                          |                                   |
|           | 3   | Ericsson AIR 6449 B77        |                                          |                                   |
|           | 3   | Ericsson Radio 4449 - B13&B5 |                                          |                                   |
|           | 3   | Light Sector Frame           |                                          |                                   |
|           | 4   | JMA Wireless MX06FIT865-02   |                                          |                                   |

| Elev (ft) | Qty | Equipment                           | Lines         | Carrier                           |
|-----------|-----|-------------------------------------|---------------|-----------------------------------|
| 243.0     | -   | -                                   | (1) EW52      | M/A COM PRIVATE RADIO SYSTEMS INC |
| 242.9     | 1   | 6' Dish w/ Radome                   | -             | M/A COM PRIVATE RADIO SYSTEMS INC |
| 240.0     | 1   | RFS PAD6-65AC                       | (1) EW65      | STATE OF FLORIDA                  |
| 198.0     | 1   | Andrew Microwaves PAR6-59 w/ Radome | (1) EW52      | VERIZON WIRELESS                  |
| 187.0     | 1   | 6' Dish w/ Radome                   | (1) EW52      | M/A COM PRIVATE RADIO SYSTEMS INC |
| 186.0     | 1   | RFS PAD6-65AC                       | (1) EW65      | STATE OF FLORIDA                  |
| 155.0     | -   | -                                   | (1) EW52      | M/A COM PRIVATE RADIO SYSTEMS INC |
| 154.8     | 1   | 6' Dish w/ Radome                   | -             | M/A COM PRIVATE RADIO SYSTEMS INC |
| 154.0     | 1   | RFS PAD6-65AC                       | (1) EW65      | STATE OF FLORIDA                  |
| 146.3     | 1   | Andrew VHLPX4-6W                    | -             | VERIZON WIRELESS                  |
| 146.0     | -   | -                                   | (1) EW52      | VERIZON WIRELESS                  |
| 99.0      | -   | -                                   | (1) 7/8" Coax | M/A COM PRIVATE RADIO SYSTEMS INC |
| 98.9      | 1   | 12' Omni                            | -             | M/A COM PRIVATE RADIO SYSTEMS INC |
| 92.0      | 1   | Side Arm                            | -             | M/A COM PRIVATE RADIO SYSTEMS INC |

(If table breaks across pages, please see previous page for data in merged cells)



## **Standard Conditions**

All engineering services performed by ATC Tower Services, LLC are prepared on the basis that the information used is current and correct. This information may consist of, but is not limited to the following:

- Information supplied by the client regarding antenna, mounts, and feed line loading
- Information from drawings, design and analysis documents, and field notes in the possession of ATC Tower Services, LLC

It is the responsibility of the client to ensure that the information provided to ATC Tower Services, LLC and used in the performance of our engineering services is correct and complete.

All assets of American Tower Corporation, its affiliates, and subsidiaries (collectively "American Tower") are inspected at regular intervals. Based upon these inspections and in the absence of information to the contrary, American Tower assumes that all structures were constructed in accordance with the drawings and specifications.

Unless explicitly agreed by both the client and ATC Tower Services, LLC, all services will be performed in accordance with the current revision of ANSI/TIA-222.

All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. ATC Tower Services, LLC is not responsible for the conclusions, opinions and recommendations made by others based on the information supplied herein.

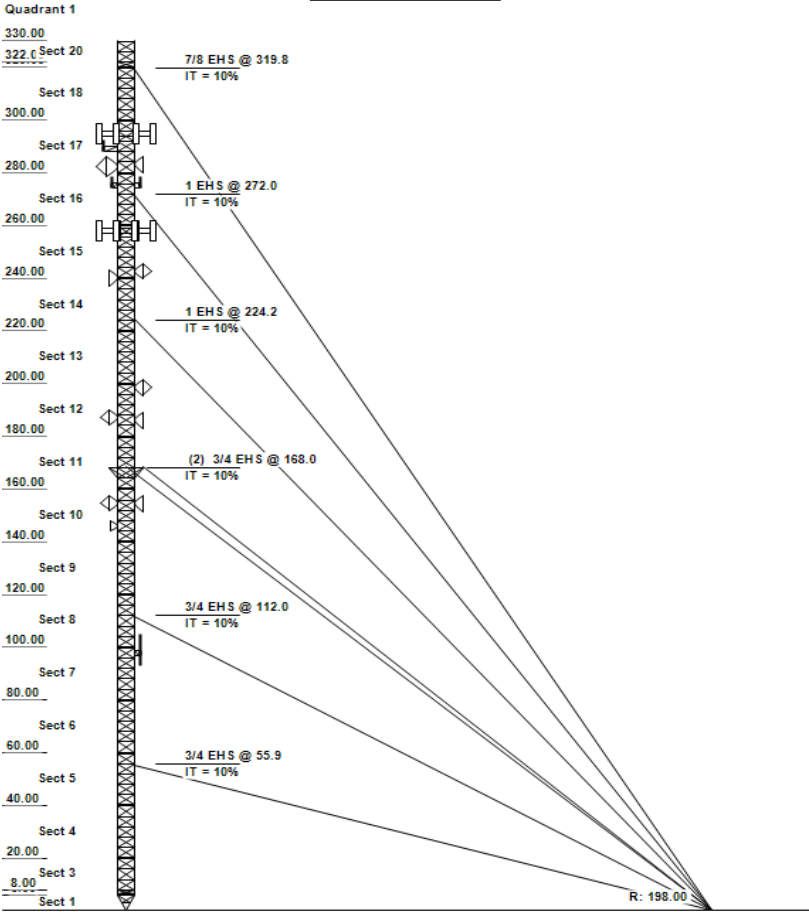
ASSET: Five Points, 2543  
CUSTOMER: T-MOBILE

CODE: ANSI/TIA-222-H  
PROJECT: 14910189

| ANALYSIS PARAMETERS |          |                 |                     |                  |                              |
|---------------------|----------|-----------------|---------------------|------------------|------------------------------|
| Design Wind:        | 119 mph  | Ice Wind:       | 30 mph w/ 0.00" ice | Service Wind:    | 60 mph                       |
| Risk Category:      | II       | Exposure:       | C                   | S <sub>s</sub> : | 0.087 S <sub>i</sub> : 0.051 |
| Topo Factor:        | Method 1 | Topo Feature:   |                     | Topo Category:   | 1                            |
| Structure Height:   | 330 ft   | Base Elevation: | 0 ft                | Shape:           | Triangle                     |
| Base Width:         | 4.00 ft  | Top Width:      | 4.00 ft             | Base Type:       | Pivot                        |

| TOWER SECTION PROPERTIES |             |              |                  |              |                         |
|--------------------------|-------------|--------------|------------------|--------------|-------------------------|
| Section                  | Leg Members |              | Diagonal Members |              | Horizontal Members      |
| 1                        | SOL 50 ksi  | 2 3/4" SOLID | PL 50 ksi        | PL 4 x 0.75" | SAE 36 ksi 2X2X0.1875   |
| 2 - 9                    | SOL 50 ksi  | 2 1/2" SOLID | SOL 36 ksi       | 3/4" SOLID   | SAE 36 ksi 2X2X0.1875   |
| 10 - 12                  | SOL 50 ksi  | 2 3/4" SOLID | PL 36 ksi        | PL 2 x 0.5"  | SAE 36 ksi 2.5X2.5X0.25 |
| 13 - 20                  | SOL 50 ksi  | 2 1/4" SOLID | SOL 36 ksi       | 3/4" SOLID   | SAE 36 ksi 2X2X0.1875   |

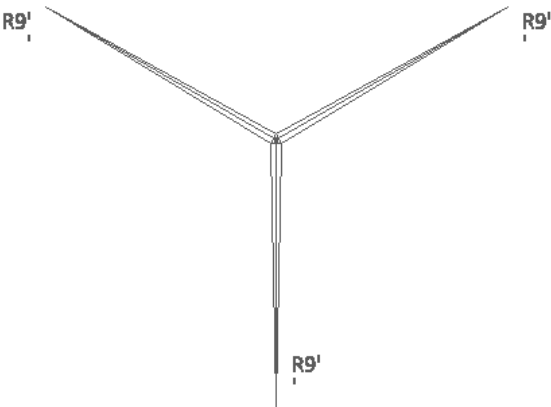
Tower Elevation View



BASE REACTIONS

Axial (k): 222.44  
Shear (k): 1.86

Tower Plan View



| DISCRETE APPURTENANCE |                                       | LINEAR APPURTENANCE |             |
|-----------------------|---------------------------------------|---------------------|-------------|
| Elev (ft)             | Description                           | Elev (ft)           | Description |
| 304.0                 | (1) Generic Flat Side Arm             |                     |             |
| 300.3                 | (3) Ericsson Radio 4460 B25+B66       |                     |             |
| 300.0                 | (1) Generic Flat Side Arm             |                     |             |
| 295.0                 | (3) Commscope FFVV-65C-R3-V1          |                     |             |
| 295.0                 | (3) Ericsson Radio 4480 B71+B85       |                     |             |
| 295.0                 | (3) Ericsson AIR 6419 B41             |                     |             |
| 295.0                 | (3) Generic Round Sector Frame        |                     |             |
| 290.0                 | (1) Generic Flat Stand-Off            |                     |             |
| 290.0                 | (1) Sinclair SE414-SWBALDF(DXX)       |                     |             |
| 290.0                 | (1) Combilent CP00732                 |                     |             |
| 283.0                 | (1) RFS PAD6-65AC                     |                     |             |
| 282.4                 | (1) Generic 8' Dish w/ Radome         |                     |             |
| 276.0                 | (2) Sinclair SE414-SWBALDF(DXX)       |                     |             |
| 275.0                 | (1) Generic Flat Side Arm             |                     |             |
| 258.0                 | (3) Commscope TD-850B-LTE78-43        |                     |             |
| 258.0                 | (3) Ericsson AIR 6449 B77             |                     |             |
| 258.0                 | (2) JMA Wireless MX06FRO860-02        |                     |             |
| 258.0                 | (3) Generic Flat Light Sector Frame   |                     |             |
| 258.0                 | (3) Ericsson Radio 4449 - B13&B5      |                     |             |
| 258.0                 | (4) JMA Wireless MX06FIT865-02        |                     |             |
| 258.0                 | (3) Ericsson 8843 Rev 2               |                     |             |
| 258.0                 | (2) Raycap RCMD6-6627-PF-48           |                     |             |
| 242.9                 | (1) Generic 6' Dish w/ Radome         |                     |             |
| 240.0                 | (1) RFS PAD6-65AC                     |                     |             |
| 198.0                 | (1) Andrew Microwaves PAR6-59 w/ Rado |                     |             |
| 187.0                 | (1) Generic 6' Dish w/ Radome         |                     |             |
| 186.0                 | (1) RFS PAD6-65AC                     |                     |             |
| 168.0                 | (1) Generic Torque Arm                |                     |             |
| 154.8                 | (1) Generic 6' Dish w/ Radome         |                     |             |
| 154.0                 | (1) RFS PAD6-65AC                     |                     |             |
| 146.3                 | (1) Andrew VHLPX4-6W                  |                     |             |
| 98.9                  | (1) Generic 12' Omni                  |                     |             |
| 92.0                  | (1) Generic Round Side Arm            |                     |             |

GUY ANCHOR REACTIONS

| Radius (ft) | Drop (ft) | Azimuth (°) | Uplift (k) | Shear (k) |
|-------------|-----------|-------------|------------|-----------|
| 198.0       | 0.00      | 0           | 94.76      | 100.34    |
| 198.0       | 0.00      | 120         | 94.85      | 100.41    |
| 198.0       | 0.00      | 240         | 94.85      | 100.41    |

| ANALYSIS PARAMETERS |                     |                    |         |
|---------------------|---------------------|--------------------|---------|
| Location:           | Columbia County, FL | Height:            | 330 ft  |
| Type and Shape:     | Guyed, Triangle     | Base Elevation:    | 0.00 ft |
| Manufacturer:       | FWT                 | Bottom Face Width: | 4.00 ft |
| Kd                  | 0.85                | Top Face Width:    | 4.00 ft |
| Ke:                 | 0.99                |                    |         |

| ICE & WIND PARAMETERS         |          |                                |         |
|-------------------------------|----------|--------------------------------|---------|
| Exposure Category:            | C        | Design Wind Speed Without Ice: | 119 mph |
| Risk Category:                | II       | Design Wind Speed with Ice:    | 30 mph  |
| Topographic Factor Procedure: | Method 1 | Operational Windspeed:         | 60 mph  |
| Topographic Category:         | 1        | Design Ice Thickness:          | 0.00 in |
| Crest Height:                 | ft       | HMSL:                          | 148 ft  |

| SEISMIC PARAMETERS    |                                 |                                        |       |                       |       |
|-----------------------|---------------------------------|----------------------------------------|-------|-----------------------|-------|
| Analysis Method:      | Equivalent Lateral Force Method |                                        |       |                       |       |
| Site Class:           | D - Stiff Soil                  | Period Based on Rayleigh Method (sec): |       | 0.76                  |       |
| T <sub>L</sub> (sec): | 8                               | P:                                     | 1.3   | C <sub>s</sub> :      | 0.031 |
| S <sub>ds</sub> :     | 0.093                           | S <sub>d1</sub> :                      | 0.082 | C <sub>s, Max</sub> : | 0.036 |
| S <sub>s</sub> :      | 0.087                           | S <sub>1</sub> :                       | 0.051 | C <sub>s, Min</sub> : | 0.030 |
| F <sub>a</sub> :      | 1.600                           | F <sub>v</sub> :                       | 2.400 |                       |       |

| LOAD CASES                  |                                                              |
|-----------------------------|--------------------------------------------------------------|
| 1.2D + 1.0W Normal          | 1.2D + 1.0W Normal - 119 mph Wind with No Ice                |
| 1.2D + 1.0W 60°             | 1.2D + 1.0W 60° - 119 mph Wind with No Ice                   |
| 1.2D + 1.0W 90°             | 1.2D + 1.0W 90° - 119 mph Wind with No Ice                   |
| 1.2D + 1.0W 120°            | 1.2D + 1.0W 120° - 119 mph Wind with No Ice                  |
| 1.2D + 1.0W 180°            | 1.2D + 1.0W 180° - 119 mph Wind with No Ice                  |
| 1.2D + 1.0W 210°            | 1.2D + 1.0W 210° - 119 mph Wind with No Ice                  |
| 1.2D + 1.0W 240°            | 1.2D + 1.0W 240° - 119 mph Wind with No Ice                  |
| 1.2D + 1.0W 300°            | 1.2D + 1.0W 300° - 119 mph Wind with No Ice                  |
| 1.2D + 1.0W 330°            | 1.2D + 1.0W 330° - 119 mph Wind with No Ice                  |
| 1.2D + 1.0Di + 1.0Wi Normal | 1.2D + 1.0Di + 1.0Wi Normal - 30 mph Wind with 0" Radial Ice |
| 1.2D + 1.0Di + 1.0Wi 60°    | 1.2D + 1.0Di + 1.0Wi 60° - 30 mph Wind with 0" Radial Ice    |
| 1.2D + 1.0Di + 1.0Wi 90°    | 1.2D + 1.0Di + 1.0Wi 90° - 30 mph Wind with 0" Radial Ice    |
| 1.2D + 1.0Di + 1.0Wi 120°   | 1.2D + 1.0Di + 1.0Wi 120° - 30 mph Wind with 0" Radial Ice   |
| 1.2D + 1.0Di + 1.0Wi 180°   | 1.2D + 1.0Di + 1.0Wi 180° - 30 mph Wind with 0" Radial Ice   |
| 1.2D + 1.0Di + 1.0Wi 210°   | 1.2D + 1.0Di + 1.0Wi 210° - 30 mph Wind with 0" Radial Ice   |
| 1.2D + 1.0Di + 1.0Wi 240°   | 1.2D + 1.0Di + 1.0Wi 240° - 30 mph Wind with 0" Radial Ice   |
| 1.2D + 1.0Di + 1.0Wi 300°   | 1.2D + 1.0Di + 1.0Wi 300° - 30 mph Wind with 0" Radial Ice   |
| 1.2D + 1.0Di + 1.0Wi 330°   | 1.2D + 1.0Di + 1.0Wi 330° - 30 mph Wind with 0" Radial Ice   |
| 1.2D + 1.0Ev + 1.0Eh Normal | 1.2D + 1.0Ev + 1.0Eh Normal - Seismic                        |
| 1.2D + 1.0Ev + 1.0Eh 60°    | 1.2D + 1.0Ev + 1.0Eh 60° - Seismic                           |
| 1.2D + 1.0Ev + 1.0Eh 90°    | 1.2D + 1.0Ev + 1.0Eh 90° - Seismic                           |
| 1.2D + 1.0Ev + 1.0Eh 120°   | 1.2D + 1.0Ev + 1.0Eh 120° - Seismic                          |
| 1.2D + 1.0Ev + 1.0Eh 180°   | 1.2D + 1.0Ev + 1.0Eh 180° - Seismic                          |
| 1.2D + 1.0Ev + 1.0Eh 210°   | 1.2D + 1.0Ev + 1.0Eh 210° - Seismic                          |
| 1.2D + 1.0Ev + 1.0Eh 240°   | 1.2D + 1.0Ev + 1.0Eh 240° - Seismic                          |
| 1.2D + 1.0Ev + 1.0Eh 300°   | 1.2D + 1.0Ev + 1.0Eh 300° - Seismic                          |
| 1.2D + 1.0Ev + 1.0Eh 330°   | 1.2D + 1.0Ev + 1.0Eh 330° - Seismic                          |

| LOAD CASES                 |                                                      |
|----------------------------|------------------------------------------------------|
| 1.0D + 1.0W Service Normal | 1.0D + 1.0W Service Normal - 60 mph Wind with No Ice |
| 1.0D + 1.0W Service 60°    | 1.0D + 1.0W Service 60° - 60 mph Wind with No Ice    |
| 1.0D + 1.0W Service 90°    | 1.0D + 1.0W Service 90° - 60 mph Wind with No Ice    |
| 1.0D + 1.0W Service 120°   | 1.0D + 1.0W Service 120° - 60 mph Wind with No Ice   |
| 1.0D + 1.0W Service 180°   | 1.0D + 1.0W Service 180° - 60 mph Wind with No Ice   |
| 1.0D + 1.0W Service 210°   | 1.0D + 1.0W Service 210° - 60 mph Wind with No Ice   |
| 1.0D + 1.0W Service 240°   | 1.0D + 1.0W Service 240° - 60 mph Wind with No Ice   |
| 1.0D + 1.0W Service 300°   | 1.0D + 1.0W Service 300° - 60 mph Wind with No Ice   |
| 1.0D + 1.0W Service 330°   | 1.0D + 1.0W Service 330° - 60 mph Wind with No Ice   |

ASSET: 2543, Five Points

CODE: ANSI/TIA-222-H

CUSTOMER: T-MOBILE

PROJECT: 14910189\_C3\_03

## TOWER LOADING - DISCRETE APPURTENANCE

Discrete Appurtenance Properties for LC: 1.2D + 1.0W

| Elev<br>(ft) | Description                    | Qty | Wt.<br>(lb) | EPA<br>(sf) | Length<br>(ft) | Width<br>(in) | Depth<br>(in) | K <sub>a</sub> | Orient.<br>Factor | Vert.<br>Ecc. (ft) | M <sub>u</sub><br>(lb-ft) | Q <sub>z</sub><br>(psf) | F <sub>a</sub> (WL)<br>(lb) | P <sub>a</sub> (DL)<br>(lb) |
|--------------|--------------------------------|-----|-------------|-------------|----------------|---------------|---------------|----------------|-------------------|--------------------|---------------------------|-------------------------|-----------------------------|-----------------------------|
| 304.0        | Generic Flat Side Arm          | 1   | 188         | 6.3         | 0.0            | 0.0           | 0.0           | 1.00           | 1.00              | 0.0                | 0.00                      | 49.02                   | 263                         | 225                         |
| 300.3        | Ericsson Radio 4460 B25+B66    | 3   | 109         | 2.6         | 1.6            | 15.7          | 12.1          | 0.80           | 0.50              | 0.0                | 0.00                      | 48.90                   | 128                         | 392                         |
| 300.0        | Generic Flat Side Arm          | 1   | 188         | 6.3         | 0.0            | 0.0           | 0.0           | 1.00           | 1.00              | 0.0                | 0.00                      | 48.88                   | 262                         | 225                         |
| 295.0        | Ericsson Radio 4480 B71+B85    | 3   | 93          | 2.8         | 1.8            | 15.4          | 7.5           | 0.80           | 0.67              | 0.0                | 0.00                      | 48.71                   | 186                         | 335                         |
| 295.0        | Ericsson AIR 6419 B41          | 3   | 69          | 5.6         | 2.8            | 20.0          | 6.3           | 0.80           | 0.60              | 0.0                | 0.00                      | 48.71                   | 334                         | 247                         |
| 295.0        | Generic Round Sector Frame     | 3   | 700         | 14.4        | 0.0            | 0.0           | 0.0           | 0.75           | 0.75              | 0.0                | 0.00                      | 48.71                   | 1006                        | 2520                        |
| 295.0        | Commscope FFFV-65C-R3-V1       | 3   | 125         | 21.1        | 8.0            | 25.2          | 9.3           | 0.80           | 0.63              | 0.0                | 0.00                      | 48.71                   | 1322                        | 449                         |
| 290.0        | Combilent CP00732              | 1   | 8           | 0.3         | 0.8            | 4.0           | 4.0           | 1.00           | 1.00              | 0.0                | 0.00                      | 48.54                   | 13                          | 10                          |
| 290.0        | Generic Flat Stand-Off         | 1   | 188         | 6.3         | 0.0            | 0.0           | 0.0           | 1.00           | 1.00              | 0.0                | 0.00                      | 48.54                   | 260                         | 225                         |
| 290.0        | Sinclair SE414-SWBPALDF(DXX)   | 1   | 20          | 7.0         | 4.4            | 25.0          | 8.5           | 1.00           | 1.00              | 0.0                | 0.00                      | 48.54                   | 290                         | 23                          |
| 283.0        | RFS PAD6-65AC                  | 1   | 185         | 56.6        | 6.6            | 79.0          | 0.0           | 1.00           | 1.00              | 0.0                | 0.00                      | 48.29                   | 2325                        | 222                         |
| 282.4        | Generic 8' Dish w/ Radome      | 1   | 304         | 43.4        | 8.0            | 96.0          | 0.0           | 1.00           | 1.00              | 0.0                | 0.00                      | 48.27                   | 1780                        | 365                         |
| 276.0        | Sinclair SE414-SWBPALDF(DXX)   | 2   | 20          | 7.0         | 4.4            | 25.0          | 8.5           | 1.00           | 0.71              | 0.0                | 0.00                      | 48.03                   | 407                         | 47                          |
| 275.0        | Generic Flat Side Arm          | 1   | 188         | 6.3         | 0.0            | 0.0           | 0.0           | 1.00           | 1.00              | 0.0                | 0.00                      | 48.00                   | 257                         | 225                         |
| 258.0        | Ericsson 8843 Rev 2            | 3   | 75          | 1.6         | 1.3            | 13.2          | 11.1          | 0.80           | 0.50              | 0.0                | 0.00                      | 47.36                   | 80                          | 270                         |
| 258.0        | Ericsson Radio 4449 - B13&B5   | 3   | 70          | 1.6         | 1.3            | 13.2          | 9.3           | 0.80           | 0.50              | 0.0                | 0.00                      | 47.36                   | 80                          | 252                         |
| 258.0        | Commscope TD-850B-LTE78-43     | 3   | 53          | 2.0         | 1.3            | 15.3          | 6.4           | 0.80           | 0.50              | 0.0                | 0.00                      | 47.36                   | 95                          | 191                         |
| 258.0        | Ericsson AIR 6449 B77          | 3   | 82          | 4.0         | 2.5            | 15.9          | 8.1           | 0.80           | 0.65              | 0.0                | 0.00                      | 47.36                   | 253                         | 294                         |
| 258.0        | Raycap RCMDC-6627-PF-48        | 2   | 32          | 4.1         | 2.5            | 16.5          | 12.6          | 0.80           | 0.79              | 0.0                | 0.00                      | 47.36                   | 206                         | 77                          |
| 258.0        | JMA Wireless MX06FIT865-02     | 4   | 50          | 11.4        | 8.0            | 11.9          | 10.7          | 0.80           | 0.76              | 0.0                | 0.00                      | 47.36                   | 1113                        | 240                         |
| 258.0        | JMA Wireless MX06FRO860-02     | 2   | 51          | 14.0        | 8.0            | 15.4          | 10.7          | 0.80           | 0.79              | 0.0                | 0.00                      | 47.36                   | 713                         | 122                         |
| 258.0        | Generic Flat Light Sector Fram | 3   | 800         | 17.9        | 0.0            | 0.0           | 0.0           | 0.75           | 0.67              | 0.0                | 0.00                      | 47.36                   | 1086                        | 2880                        |
| 242.9        | Generic 6' Dish w/ Radome      | 1   | 250         | 24.4        | 6.0            | 72.0          | 0.0           | 1.00           | 1.00              | 0.0                | 0.00                      | 46.76                   | 970                         | 300                         |
| 240.0        | RFS PAD6-65AC                  | 1   | 185         | 56.6        | 6.6            | 79.0          | 0.0           | 1.00           | 1.00              | 0.0                | 0.00                      | 46.64                   | 2246                        | 222                         |
| 198.0        | Andrew Microwaves PAR6-59 w/ R | 1   | 164         | 27.4        | 6.4            | 76.3          | 0.0           | 1.00           | 1.00              | 0.0                | 0.00                      | 44.79                   | 1044                        | 197                         |
| 187.0        | Generic 6' Dish w/ Radome      | 1   | 250         | 24.4        | 6.0            | 72.0          | 0.0           | 1.00           | 1.00              | 0.0                | 0.00                      | 44.25                   | 918                         | 300                         |
| 186.0        | RFS PAD6-65AC                  | 1   | 185         | 56.6        | 6.6            | 79.0          | 0.0           | 1.00           | 1.00              | 0.0                | 0.00                      | 44.20                   | 2128                        | 222                         |
| 168.0        | Generic Torque Arm             | 1   | 500         | 15.0        | 0.0            | 0.0           | 0.0           | 1.00           | 1.00              | 0.0                | 0.00                      | 43.27                   | 552                         | 600                         |
| 154.8        | Generic 6' Dish w/ Radome      | 1   | 250         | 24.4        | 6.0            | 72.0          | 0.0           | 1.00           | 1.00              | 0.0                | 0.00                      | 42.53                   | 882                         | 300                         |
| 154.0        | RFS PAD6-65AC                  | 1   | 185         | 56.6        | 6.6            | 79.0          | 0.0           | 1.00           | 1.00              | 0.0                | 0.00                      | 42.48                   | 2045                        | 222                         |
| 146.3        | Andrew VHLPX4-6W               | 1   | 101         | 17.8        | 4.2            | 50.8          | 29.5          | 1.00           | 1.00              | 0.0                | 0.00                      | 42.03                   | 634                         | 121                         |
| 98.9         | Generic 12' Omni               | 1   | 40          | 3.6         | 12.0           | 3.0           | 3.0           | 1.00           | 1.00              | 0.0                | 0.00                      | 38.70                   | 118                         | 48                          |
| 92.0         | Generic Round Side Arm         | 1   | 188         | 5.2         | 0.0            | 0.0           | 0.0           | 1.00           | 1.00              | 0.0                | 0.00                      | 38.12                   | 168                         | 225                         |
| Totals       |                                | 59  | 10,493      | 761.3       |                |               |               |                |                   |                    |                           |                         | 24,163                      | 12,592                      |

Discrete Appurtenance Properties for LC: 1.2D + 1.0Di + 1.0Wi

| Elev<br>(ft) | Description                    | Qty | Ice Wt<br>(lb) | Ice EPA<br>(sf) | Length<br>(ft) | Width<br>(in) | Depth<br>(in) | K <sub>a</sub> | Orient.<br>Factor | Vert.<br>Ecc. (ft) | M <sub>u</sub><br>(lb-ft) | Q <sub>z</sub><br>(psf) | F <sub>a</sub> (WL)<br>(lb) | P <sub>a</sub> (DL)<br>(lb) |
|--------------|--------------------------------|-----|----------------|-----------------|----------------|---------------|---------------|----------------|-------------------|--------------------|---------------------------|-------------------------|-----------------------------|-----------------------------|
| 304.0        | Generic Flat Side Arm          | 1   | 188            | 6.3             | 0.0            | 0.0           | 0.0           | 1.00           | 1.00              | 0.0                | 0.00                      | 3.12                    | 17                          | 225                         |
| 300.3        | Ericsson Radio 4460 B25+B66    | 3   | 109            | 2.6             | 1.6            | 15.7          | 12.1          | 0.80           | 0.50              | 0.0                | 0.00                      | 3.11                    | 8                           | 392                         |
| 300.0        | Generic Flat Side Arm          | 1   | 188            | 6.3             | 0.0            | 0.0           | 0.0           | 1.00           | 1.00              | 0.0                | 0.00                      | 3.11                    | 17                          | 225                         |
| 295.0        | Ericsson Radio 4480 B71+B85    | 3   | 93             | 2.8             | 1.8            | 15.4          | 7.5           | 0.80           | 0.67              | 0.0                | 0.00                      | 3.10                    | 12                          | 335                         |
| 295.0        | Ericsson AIR 6419 B41          | 3   | 68             | 5.6             | 2.8            | 20.0          | 6.3           | 0.80           | 0.60              | 0.0                | 0.00                      | 3.10                    | 21                          | 247                         |
| 295.0        | Generic Round Sector Frame     | 3   | 700            | 14.4            | 0.0            | 0.0           | 0.0           | 0.75           | 0.75              | 0.0                | 0.00                      | 3.10                    | 64                          | 2520                        |
| 295.0        | Commscope FFFV-65C-R3-V1       | 3   | 125            | 21.1            | 8.0            | 25.2          | 9.3           | 0.80           | 0.63              | 0.0                | 0.00                      | 3.10                    | 84                          | 449                         |
| 290.0        | Combilent CP00732              | 1   | 8              | 0.3             | 0.8            | 4.0           | 4.0           | 1.00           | 1.00              | 0.0                | 0.00                      | 3.08                    | 1                           | 10                          |
| 290.0        | Generic Flat Stand-Off         | 1   | 188            | 6.3             | 0.0            | 0.0           | 0.0           | 1.00           | 1.00              | 0.0                | 0.00                      | 3.08                    | 17                          | 225                         |
| 290.0        | Sinclair SE414-SWBPALDF(DXX)   | 1   | 20             | 7.0             | 4.4            | 25.0          | 8.5           | 1.00           | 1.00              | 0.0                | 0.00                      | 3.08                    | 18                          | 23                          |
| 283.0        | RFS PAD6-65AC                  | 1   | 185            | 56.6            | 6.6            | 79.0          | 0.0           | 1.00           | 1.00              | 0.0                | 0.00                      | 3.07                    | 148                         | 222                         |
| 282.4        | Generic 8' Dish w/ Radome      | 1   | 304            | 43.4            | 8.0            | 96.0          | 0.0           | 1.00           | 1.00              | 0.0                | 0.00                      | 3.07                    | 113                         | 365                         |
| 276.0        | Sinclair SE414-SWBPALDF(DXX)   | 2   | 20             | 7.0             | 4.4            | 25.0          | 8.5           | 1.00           | 0.71              | 0.0                | 0.00                      | 3.05                    | 26                          | 47                          |
| 275.0        | Generic Flat Side Arm          | 1   | 188            | 6.3             | 0.0            | 0.0           | 0.0           | 1.00           | 1.00              | 0.0                | 0.00                      | 3.05                    | 16                          | 225                         |
| 258.0        | Ericsson 8843 Rev 2            | 3   | 75             | 1.6             | 1.3            | 13.2          | 11.1          | 0.80           | 0.50              | 0.0                | 0.00                      | 3.01                    | 5                           | 270                         |
| 258.0        | Ericsson Radio 4449 - B13&B5   | 3   | 70             | 1.6             | 1.3            | 13.2          | 9.3           | 0.80           | 0.50              | 0.0                | 0.00                      | 3.01                    | 5                           | 252                         |
| 258.0        | Commscope TD-850B-LTE78-43     | 3   | 53             | 2.0             | 1.3            | 15.3          | 6.4           | 0.80           | 0.50              | 0.0                | 0.00                      | 3.01                    | 6                           | 191                         |
| 258.0        | Ericsson AIR 6449 B77          | 3   | 82             | 4.0             | 2.5            | 15.9          | 8.1           | 0.80           | 0.65              | 0.0                | 0.00                      | 3.01                    | 16                          | 294                         |
| 258.0        | Raycap RCMDC-6627-PF-48        | 2   | 32             | 4.1             | 2.5            | 16.5          | 12.6          | 0.80           | 0.79              | 0.0                | 0.00                      | 3.01                    | 13                          | 77                          |
| 258.0        | JMA Wireless MX06FIT865-02     | 4   | 50             | 11.4            | 8.0            | 11.9          | 10.7          | 0.80           | 0.76              | 0.0                | 0.00                      | 3.01                    | 71                          | 240                         |
| 258.0        | JMA Wireless MX06FRO860-02     | 2   | 51             | 14.0            | 8.0            | 15.4          | 10.7          | 0.80           | 0.79              | 0.0                | 0.00                      | 3.01                    | 45                          | 122                         |
| 258.0        | Generic Flat Light Sector Fram | 3   | 800            | 17.9            | 0.0            | 0.0           | 0.0           | 0.75           | 0.67              | 0.0                | 0.00                      | 3.01                    | 69                          | 2880                        |
| 242.9        | Generic 6' Dish w/ Radome      | 1   | 250            | 24.4            | 6.0            | 72.0          | 0.0           | 1.00           | 1.00              | 0.0                | 0.00                      | 2.97                    | 62                          | 300                         |
| 240.0        | RFS PAD6-65AC                  | 1   | 185            | 56.6            | 6.6            | 79.0          | 0.0           | 1.00           | 1.00              | 0.0                | 0.00                      | 2.96                    | 143                         | 222                         |
| 198.0        | Andrew Microwaves PAR6-59 w/ R | 1   | 164            | 27.4            | 6.4            | 76.3          | 0.0           | 1.00           | 1.00              | 0.0                | 0.00                      | 2.85                    | 66                          | 197                         |
| 187.0        | Generic 6' Dish w/ Radome      | 1   | 250            | 24.4            | 6.0            | 72.0          | 0.0           | 1.00           | 1.00              | 0.0                | 0.00                      | 2.81                    | 58                          | 300                         |
| 186.0        | RFS PAD6-65AC                  | 1   | 185            | 56.6            | 6.6            | 79.0          | 0.0           | 1.00           | 1.00              | 0.0                | 0.00                      | 2.81                    | 135                         | 222                         |
| 168.0        | Generic Torque Arm             | 1   | 500            | 15.0            | 0.0            | 0.0           | 0.0           | 1.00           | 1.00              | 0.0                | 0.00                      | 2.75                    | 35                          | 600                         |
| 154.8        | Generic 6' Dish w/ Radome      | 1   | 250            | 24.4            | 6.0            | 72.0          | 0.0           | 1.00           | 1.00              | 0.0                | 0.00                      | 2.70                    | 56                          | 300                         |
| 154.0        | RFS PAD6-65AC                  | 1   | 185            | 56.6            | 6.6            | 79.0          | 0.0           | 1.00           | 1.00              | 0.0                | 0.00                      | 2.70                    | 130                         | 222                         |
| 146.3        | Andrew VHLPX4-6W               | 1   | 101            | 17.8            | 4.2            | 50.8          | 29.5          | 1.00           | 1.00              | 0.0                | 0.00                      | 2.67                    | 40                          | 121                         |
| 98.9         | Generic 12' Omni               | 1   | 40             | 3.6             | 12.0           | 3.0           | 3.0           | 1.00           | 1.00              | 0.0                | 0.00                      | 2.46                    | 8                           | 48                          |
| 92.0         | Generic Round Side Arm         | 1   | 188            | 5.2             | 0.0            | 0.0           | 0.0           | 1.00           | 1.00              | 0.0                | 0.00                      | 2.42                    | 11                          | 225                         |
| Totals       |                                | 59  | 10,493         | 761.3           |                |               |               |                |                   |                    |                           |                         | 1536                        | 12,592                      |

ASSET: 2543, Five Points  
CUSTOMER: T-MOBILE

CODE: ANSI/TIA-222-H  
PROJECT: 14910189\_C3\_03

Discrete Appurtenance Properties for LC: 1.0D + 1.0W Service

| Elev<br>(ft) | Description                    | Qty | Wt.<br>(lb) | EPA<br>(sf) | Length<br>(ft) | Width<br>(in) | Depth<br>(in) | K <sub>a</sub> | Orient.<br>Factor | Vert.<br>Ecc. (ft) | M <sub>u</sub><br>(lb-ft) | Q <sub>z</sub><br>(psf) | F <sub>a</sub> (WL)<br>(lb) | P <sub>a</sub> (DL)<br>(lb) |
|--------------|--------------------------------|-----|-------------|-------------|----------------|---------------|---------------|----------------|-------------------|--------------------|---------------------------|-------------------------|-----------------------------|-----------------------------|
| 304.0        | Generic Flat Side Arm          | 1   | 188         | 6.3         | 0.0            | 0.0           | 0.0           | 1.00           | 1.00              | 0.0                | 0.00                      | 12.46                   | 67                          | 188                         |
| 300.3        | Ericsson Radio 4460 B25+B66    | 3   | 109         | 2.6         | 1.6            | 15.7          | 12.1          | 0.80           | 0.50              | 0.0                | 0.00                      | 12.43                   | 33                          | 327                         |
| 300.0        | Generic Flat Side Arm          | 1   | 188         | 6.3         | 0.0            | 0.0           | 0.0           | 1.00           | 1.00              | 0.0                | 0.00                      | 12.43                   | 67                          | 188                         |
| 295.0        | Ericsson Radio 4480 B71+B85    | 3   | 93          | 2.8         | 1.8            | 15.4          | 7.5           | 0.80           | 0.67              | 0.0                | 0.00                      | 12.38                   | 47                          | 279                         |
| 295.0        | Ericsson AIR 6419 B41          | 3   | 69          | 5.6         | 2.8            | 20.0          | 6.3           | 0.80           | 0.60              | 0.0                | 0.00                      | 12.38                   | 85                          | 206                         |
| 295.0        | Generic Round Sector Frame     | 3   | 700         | 14.4        | 0.0            | 0.0           | 0.0           | 0.75           | 0.75              | 0.0                | 0.00                      | 12.38                   | 256                         | 2100                        |
| 295.0        | Commscope FFFV-65C-R3-V1       | 3   | 125         | 21.1        | 8.0            | 25.2          | 9.3           | 0.80           | 0.63              | 0.0                | 0.00                      | 12.38                   | 336                         | 374                         |
| 290.0        | Combilent CP00732              | 1   | 8           | 0.3         | 0.8            | 4.0           | 4.0           | 1.00           | 1.00              | 0.0                | 0.00                      | 12.34                   | 3                           | 8                           |
| 290.0        | Generic Flat Stand-Off         | 1   | 188         | 6.3         | 0.0            | 0.0           | 0.0           | 1.00           | 1.00              | 0.0                | 0.00                      | 12.34                   | 66                          | 188                         |
| 290.0        | Sinclair SE414-SWBPALDF(DXX)   | 1   | 20          | 7.0         | 4.4            | 25.0          | 8.5           | 1.00           | 1.00              | 0.0                | 0.00                      | 12.34                   | 74                          | 20                          |
| 283.0        | RFS PAD6-65AC                  | 1   | 185         | 56.6        | 6.6            | 79.0          | 0.0           | 1.00           | 1.00              | 0.0                | 0.00                      | 12.28                   | 591                         | 185                         |
| 282.4        | Generic 8' Dish w/ Radome      | 1   | 304         | 43.4        | 8.0            | 96.0          | 0.0           | 1.00           | 1.00              | 0.0                | 0.00                      | 12.27                   | 453                         | 304                         |
| 276.0        | Sinclair SE414-SWBPALDF(DXX)   | 2   | 20          | 7.0         | 4.4            | 25.0          | 8.5           | 1.00           | 0.71              | 0.0                | 0.00                      | 12.21                   | 103                         | 39                          |
| 275.0        | Generic Flat Side Arm          | 1   | 188         | 6.3         | 0.0            | 0.0           | 0.0           | 1.00           | 1.00              | 0.0                | 0.00                      | 12.20                   | 65                          | 188                         |
| 258.0        | Ericsson 8843 Rev 2            | 3   | 75          | 1.6         | 1.3            | 13.2          | 11.1          | 0.80           | 0.50              | 0.0                | 0.00                      | 12.04                   | 20                          | 225                         |
| 258.0        | Ericsson Radio 4449 - B13&B5   | 3   | 70          | 1.6         | 1.3            | 13.2          | 9.3           | 0.80           | 0.50              | 0.0                | 0.00                      | 12.04                   | 20                          | 210                         |
| 258.0        | Commscope TD-850B-LTE78-43     | 3   | 53          | 2.0         | 1.3            | 15.3          | 6.4           | 0.80           | 0.50              | 0.0                | 0.00                      | 12.04                   | 24                          | 159                         |
| 258.0        | Ericsson AIR 6449 B77          | 3   | 82          | 4.0         | 2.5            | 15.9          | 8.1           | 0.80           | 0.65              | 0.0                | 0.00                      | 12.04                   | 64                          | 245                         |
| 258.0        | Raycap RCMD-6627-PF-48         | 2   | 32          | 4.1         | 2.5            | 16.5          | 12.6          | 0.80           | 0.79              | 0.0                | 0.00                      | 12.04                   | 52                          | 64                          |
| 258.0        | JMA Wireless MX06FIT865-02     | 4   | 50          | 11.4        | 8.0            | 11.9          | 10.7          | 0.80           | 0.76              | 0.0                | 0.00                      | 12.04                   | 283                         | 200                         |
| 258.0        | JMA Wireless MX06FRO860-02     | 2   | 51          | 14.0        | 8.0            | 15.4          | 10.7          | 0.80           | 0.79              | 0.0                | 0.00                      | 12.04                   | 181                         | 102                         |
| 258.0        | Generic Flat Light Sector Fram | 3   | 800         | 17.9        | 0.0            | 0.0           | 0.0           | 0.75           | 0.67              | 0.0                | 0.00                      | 12.04                   | 276                         | 2400                        |
| 242.9        | Generic 6' Dish w/ Radome      | 1   | 250         | 24.4        | 6.0            | 72.0          | 0.0           | 1.00           | 1.00              | 0.0                | 0.00                      | 11.89                   | 247                         | 250                         |
| 240.0        | RFS PAD6-65AC                  | 1   | 185         | 56.6        | 6.6            | 79.0          | 0.0           | 1.00           | 1.00              | 0.0                | 0.00                      | 11.86                   | 571                         | 185                         |
| 198.0        | Andrew Microwaves PAR6-59 w/ R | 1   | 164         | 27.4        | 6.4            | 76.3          | 0.0           | 1.00           | 1.00              | 0.0                | 0.00                      | 11.39                   | 265                         | 164                         |
| 187.0        | Generic 6' Dish w/ Radome      | 1   | 250         | 24.4        | 6.0            | 72.0          | 0.0           | 1.00           | 1.00              | 0.0                | 0.00                      | 11.25                   | 233                         | 250                         |
| 186.0        | RFS PAD6-65AC                  | 1   | 185         | 56.6        | 6.6            | 79.0          | 0.0           | 1.00           | 1.00              | 0.0                | 0.00                      | 11.24                   | 541                         | 185                         |
| 168.0        | Generic Torque Arm             | 1   | 500         | 15.0        | 0.0            | 0.0           | 0.0           | 1.00           | 1.00              | 0.0                | 0.00                      | 11.00                   | 140                         | 500                         |
| 154.8        | Generic 6' Dish w/ Radome      | 1   | 250         | 24.4        | 6.0            | 72.0          | 0.0           | 1.00           | 1.00              | 0.0                | 0.00                      | 10.81                   | 224                         | 250                         |
| 154.0        | RFS PAD6-65AC                  | 1   | 185         | 56.6        | 6.6            | 79.0          | 0.0           | 1.00           | 1.00              | 0.0                | 0.00                      | 10.80                   | 520                         | 185                         |
| 146.3        | Andrew VHLPX4-6W               | 1   | 101         | 17.8        | 4.2            | 50.8          | 29.5          | 1.00           | 1.00              | 0.0                | 0.00                      | 10.68                   | 161                         | 101                         |
| 98.9         | Generic 12' Omni               | 1   | 40          | 3.6         | 12.0           | 3.0           | 3.0           | 1.00           | 1.00              | 0.0                | 0.00                      | 9.84                    | 30                          | 40                          |
| 92.0         | Generic Round Side Arm         | 1   | 188         | 5.2         | 0.0            | 0.0           | 0.0           | 1.00           | 1.00              | 0.0                | 0.00                      | 9.69                    | 43                          | 188                         |
| Totals       |                                | 59  | 10,493      | 761.3       |                |               |               |                |                   |                    |                           |                         | 6,143                       | 10,493                      |

TOWER LOADING - LINEAR APPURTENANCE

Linear Appurtenance Properties

| Elev From<br>(ft) | Elev To<br>(ft) | Description           | Qty | Width<br>(in) | Weight<br>(lb/ft) | % In<br>Wind | Spread On<br>Faces | Bundling   | Cluster Dia<br>(in) | Out of<br>Zone | Spacing<br>(in) | Orient.<br>Factor | K <sub>a</sub><br>Override |
|-------------------|-----------------|-----------------------|-----|---------------|-------------------|--------------|--------------------|------------|---------------------|----------------|-----------------|-------------------|----------------------------|
| 0.0               | 330.0           | Climbing Ladder       | 1   | 2.00          | 6.90              | 100          | 2                  | Individual | 0.00                | N              | 1.00            | 1.00              | 0.00                       |
| 0.0               | 300.0           | 1.99" (50.7mm) Hybrid | 2   | 1.99          | 1.90              | 100          | 1                  | Individual | 0.00                | N              | 1.00            | 1.00              | 0.00                       |
| 0.0               | 291.0           | 1 5/8" Coax           | 1   | 1.98          | 0.82              | 100          | 2                  | Individual | 0.00                | N              | 1.00            | 1.00              | 0.00                       |
| 0.0               | 290.0           | 1/2" Coax             | 1   | 0.63          | 0.15              | 100          | 1                  | Individual | 0.00                | N              | 1.00            | 1.00              | 0.00                       |
| 0.0               | 290.0           | 7/8" Coax             | 1   | 1.09          | 0.33              | 100          | 1                  | Individual | 0.00                | N              | 1.00            | 1.00              | 0.00                       |
| 0.0               | 283.0           | EW65                  | 1   | 2.01          | 0.57              | 100          | 1                  | Individual | 0.00                | N              | 1.00            | 1.00              | 0.00                       |
| 0.0               | 282.0           | EW52                  | 1   | 2.25          | 0.59              | 100          | 2                  | Individual | 0.00                | N              | 1.00            | 1.00              | 0.00                       |
| 0.0               | 279.0           | 1/2" Coax             | 2   | 0.63          | 0.15              | 100          | 2                  | Individual | 0.00                | N              | 1.00            | 1.00              | 0.00                       |
| 0.0               | 276.0           | 1 5/8" Coax           | 2   | 1.98          | 0.82              | 100          | 1                  | Individual | 0.00                | N              | 1.00            | 1.00              | 0.00                       |
| 0.0               | 258.0           | 1 5/8" Coax           | 10  | 1.98          | 0.82              | 50           | 3                  | Block      | 0.00                | N              | 1.00            | 1.00              | 0.00                       |
| 0.0               | 258.0           | 1 5/8" Hybriflex      | 2   | 1.98          | 1.30              | 100          | 3                  | Individual | 0.00                | N              | 1.00            | 1.00              | 0.00                       |
| 0.0               | 243.0           | EW52                  | 1   | 2.25          | 0.59              | 100          | 2                  | Individual | 0.00                | N              | 1.00            | 1.00              | 0.00                       |
| 0.0               | 240.0           | EW65                  | 1   | 2.01          | 0.57              | 100          | 1                  | Individual | 0.00                | N              | 1.00            | 1.00              | 0.00                       |
| 0.0               | 198.0           | EW52                  | 1   | 2.25          | 0.59              | 100          | 3                  | Individual | 0.00                | N              | 1.00            | 1.00              | 0.00                       |
| 0.0               | 187.0           | EW52                  | 1   | 2.25          | 0.59              | 100          | 2                  | Individual | 0.00                | N              | 1.00            | 1.00              | 0.00                       |
| 0.0               | 186.0           | EW65                  | 1   | 2.01          | 0.57              | 100          | 1                  | Individual | 0.00                | N              | 1.00            | 1.00              | 0.00                       |
| 0.0               | 155.0           | EW52                  | 1   | 2.25          | 0.59              | 100          | 2                  | Individual | 0.00                | N              | 1.00            | 1.00              | 0.00                       |
| 0.0               | 154.0           | EW65                  | 1   | 2.01          | 0.57              | 100          | 1                  | Individual | 0.00                | N              | 1.00            | 1.00              | 0.00                       |
| 0.0               | 146.0           | EW52                  | 1   | 2.25          | 0.59              | 100          | 3                  | Individual | 0.00                | N              | 1.00            | 1.00              | 0.00                       |
| 0.0               | 99.0            | 7/8" Coax             | 1   | 1.09          | 0.33              | 100          | 2                  | Individual | 0.00                | N              | 1.00            | 1.00              | 0.00                       |

| SECTION FORCES                                     |              |                         |                        |                        |                            |                              |                |                |                |                         |                        |                          |                           |            |                |                         |                        |               |
|----------------------------------------------------|--------------|-------------------------|------------------------|------------------------|----------------------------|------------------------------|----------------|----------------|----------------|-------------------------|------------------------|--------------------------|---------------------------|------------|----------------|-------------------------|------------------------|---------------|
| 1.2D + 1.0W Normal                                 |              |                         |                        |                        |                            | Gust Response Factor (Gh):   |                | 0.85           |                |                         |                        |                          |                           |            |                |                         |                        |               |
| 119 mph Wind with No Ice                           |              |                         |                        |                        |                            | Wind Importance Factor (Iw): |                | 1.00           |                |                         |                        |                          |                           |            |                |                         |                        |               |
| Section #                                          | Elev<br>(ft) | Q <sub>Z</sub><br>(psf) | A <sub>r</sub><br>(sf) | A <sub>r</sub><br>(sf) | Ice A <sub>r</sub><br>(sf) | e                            | C <sub>t</sub> | D <sub>t</sub> | D <sub>r</sub> | T <sub>iz</sub><br>(in) | A <sub>e</sub><br>(sf) | EPA <sub>a</sub><br>(sf) | EPA <sub>ai</sub><br>(sf) | Wt<br>(lb) | Ice Wt<br>(lb) | F <sub>st</sub><br>(lb) | F <sub>a</sub><br>(lb) | Force<br>(lb) |
| 20                                                 | 326          | 49.75                   | 1.271                  | 4.345                  | 0.00                       | 0.168                        | 2.71           | 1.00           | 1.00           | 0.0                     | 3.77                   | 10.21                    | 0.00                      | 647        | 0              | 432                     | 41                     | 473           |
| 19                                                 | 321          | 49.59                   | 1.271                  | 1.272                  | 0.00                       | 0.304                        | 2.29           | 1.00           | 1.00           | 0.0                     | 2.05                   | 4.68                     | 0.00                      | 231        | 0              | 197                     | 10                     | 208           |
| 18                                                 | 310          | 49.22                   | 4.177                  | 10.874                 | 0.00                       | 0.180                        | 2.67           | 1.00           | 1.00           | 0.0                     | 10.46                  | 27.87                    | 0.00                      | 1673       | 0              | 1166                    | 100                    | 1266          |
| 17                                                 | 290          | 48.54                   | 3.812                  | 10.874                 | 0.00                       | 0.175                        | 2.68           | 1.00           | 1.00           | 0.0                     | 10.08                  | 27.03                    | 0.00                      | 1764       | 0              | 1115                    | 419                    | 1534          |
| 16                                                 | 270          | 47.81                   | 4.177                  | 10.874                 | 0.00                       | 0.180                        | 2.67           | 1.00           | 1.00           | 0.0                     | 10.46                  | 27.87                    | 0.00                      | 1861       | 0              | 1132                    | 893                    | 2025          |
| 15                                                 | 250          | 47.04                   | 3.812                  | 10.874                 | 0.00                       | 0.175                        | 2.68           | 1.00           | 1.00           | 0.0                     | 10.08                  | 27.03                    | 0.00                      | 2085       | 0              | 1081                    | 1857                   | 2938          |
| 14                                                 | 230          | 46.23                   | 4.177                  | 10.874                 | 0.00                       | 0.180                        | 2.67           | 1.00           | 1.00           | 0.0                     | 10.46                  | 27.87                    | 0.00                      | 2157       | 0              | 1095                    | 2110                   | 3205          |
| 13                                                 | 210          | 45.35                   | 3.812                  | 10.874                 | 0.00                       | 0.175                        | 2.68           | 1.00           | 1.00           | 0.0                     | 10.08                  | 27.03                    | 0.00                      | 2137       | 0              | 1042                    | 2070                   | 3112          |
| 12                                                 | 190          | 44.40                   | 13.643                 | 9.167                  | 0.00                       | 0.270                        | 2.38           | 1.00           | 1.00           | 0.0                     | 19.05                  | 45.34                    | 0.00                      | 3165       | 0              | 1711                    | 2182                   | 3893          |
| 11                                                 | 170          | 43.38                   | 13.738                 | 9.167                  | 0.00                       | 0.271                        | 2.38           | 1.00           | 1.00           | 0.0                     | 19.15                  | 45.51                    | 0.00                      | 3185       | 0              | 1678                    | 2268                   | 3946          |
| 10                                                 | 150          | 42.25                   | 13.643                 | 9.167                  | 0.00                       | 0.270                        | 2.38           | 1.00           | 1.00           | 0.0                     | 19.05                  | 45.34                    | 0.00                      | 3210       | 0              | 1628                    | 2372                   | 4000          |
| 9                                                  | 130          | 40.99                   | 3.792                  | 11.695                 | 0.00                       | 0.184                        | 2.65           | 1.00           | 1.00           | 0.0                     | 10.55                  | 27.97                    | 0.00                      | 2449       | 0              | 975                     | 2416                   | 3390          |
| 8                                                  | 110          | 39.58                   | 4.160                  | 11.695                 | 0.00                       | 0.188                        | 2.64           | 1.00           | 1.00           | 0.0                     | 10.93                  | 28.80                    | 0.00                      | 2469       | 0              | 969                     | 2332                   | 3301          |
| 7                                                  | 90           | 37.94                   | 3.792                  | 11.695                 | 0.00                       | 0.184                        | 2.65           | 1.00           | 1.00           | 0.0                     | 10.55                  | 27.97                    | 0.00                      | 2457       | 0              | 902                     | 2276                   | 3178          |
| 6                                                  | 70           | 35.98                   | 3.792                  | 11.695                 | 0.00                       | 0.184                        | 2.65           | 1.00           | 1.00           | 0.0                     | 10.55                  | 27.97                    | 0.00                      | 2457       | 0              | 856                     | 2161                   | 3016          |
| 5                                                  | 50           | 33.52                   | 4.160                  | 11.695                 | 0.00                       | 0.188                        | 2.64           | 1.00           | 1.00           | 0.0                     | 10.93                  | 28.80                    | 0.00                      | 2477       | 0              | 821                     | 2013                   | 2834          |
| 4                                                  | 30           | 30.11                   | 3.792                  | 11.695                 | 0.00                       | 0.184                        | 2.65           | 1.00           | 1.00           | 0.0                     | 10.55                  | 27.97                    | 0.00                      | 2457       | 0              | 716                     | 1808                   | 2523          |
| 3                                                  | 14           | 26.05                   | 1.896                  | 7.021                  | 0.00                       | 0.177                        | 2.68           | 1.00           | 1.00           | 0.0                     | 5.95                   | 15.92                    | 0.00                      | 1454       | 0              | 352                     | 939                    | 1291          |
| 2                                                  | 7            | 26.05                   | 1.264                  | 1.353                  | 0.00                       | 0.311                        | 2.27           | 1.00           | 1.00           | 0.0                     | 2.09                   | 4.75                     | 0.00                      | 312        | 0              | 105                     | 156                    | 262           |
| 1                                                  | 3            | 26.05                   | 3.625                  | 2.947                  | 0.00                       | 0.491                        | 1.91           | 1.00           | 1.00           | 0.0                     | 5.63                   | 10.76                    | 0.00                      | 1058       | 0              | 238                     | 398                    | 622           |
| ** = Section Force Exceeds Solidity Ratio Criteria |              |                         |                        |                        |                            |                              |                |                |                |                         |                        |                          |                           | Totals     | 39,704         | 0                       | 47,016                 |               |

| 1.2D + 1.0W 60°                                    |              |                         | Gust Response Factor (Gh): 0.85   |                        |                            |       |                |                |                |                         |                        |                          |                           |            |                |                         |                        |               |
|----------------------------------------------------|--------------|-------------------------|-----------------------------------|------------------------|----------------------------|-------|----------------|----------------|----------------|-------------------------|------------------------|--------------------------|---------------------------|------------|----------------|-------------------------|------------------------|---------------|
| 119 mph Wind with No Ice                           |              |                         | Wind Importance Factor (Iw): 1.00 |                        |                            |       |                |                |                |                         |                        |                          |                           |            |                |                         |                        |               |
| Section #                                          | Elev<br>(ft) | Q <sub>Z</sub><br>(psf) | A <sub>r</sub><br>(sf)            | A <sub>r</sub><br>(sf) | Ice A <sub>r</sub><br>(sf) | e     | C <sub>i</sub> | D <sub>i</sub> | D <sub>r</sub> | T <sub>iz</sub><br>(in) | A <sub>e</sub><br>(sf) | EPA <sub>a</sub><br>(sf) | EPA <sub>ai</sub><br>(sf) | Wt<br>(lb) | Ice Wt<br>(lb) | F <sub>st</sub><br>(lb) | F <sub>a</sub><br>(lb) | Force<br>(lb) |
| 20                                                 | 326          | 49.75                   | 1.271                             | 4.345                  | 0.00                       | 0.168 | 2.71           | 0.80           | 1.00           | 0.0                     | 3.52                   | 9.53                     | 0.00                      | 647        | 0              | 403                     | 41                     | 443           |
| 19                                                 | 321          | 49.59                   | 1.271                             | 1.272                  | 0.00                       | 0.304 | 2.29           | 0.80           | 1.00           | 0.0                     | 1.79                   | 4.10                     | 0.00                      | 231        | 0              | 173                     | 10                     | 183           |
| 18                                                 | 310          | 49.22                   | 4.177                             | 10.874                 | 0.00                       | 0.180 | 2.67           | 0.80           | 1.00           | 0.0                     | 9.62                   | 25.64                    | 0.00                      | 1673       | 0              | 1073                    | 100                    | 1173          |
| 17                                                 | 290          | 48.54                   | 3.812                             | 10.874                 | 0.00                       | 0.175 | 2.68           | 0.80           | 1.00           | 0.0                     | 9.32                   | 24.99                    | 0.00                      | 1764       | 0              | 1031                    | 419                    | 1449          |
| 16                                                 | 270          | 47.81                   | 4.177                             | 10.874                 | 0.00                       | 0.180 | 2.67           | 0.80           | 1.00           | 0.0                     | 9.62                   | 25.64                    | 0.00                      | 1861       | 0              | 1042                    | 893                    | 1935          |
| 15                                                 | 250          | 47.04                   | 3.812                             | 10.874                 | 0.00                       | 0.175 | 2.68           | 0.80           | 1.00           | 0.0                     | 9.32                   | 24.99                    | 0.00                      | 2085       | 0              | 999                     | 1857                   | 2856          |
| 14                                                 | 230          | 46.23                   | 4.177                             | 10.874                 | 0.00                       | 0.180 | 2.67           | 0.80           | 1.00           | 0.0                     | 9.62                   | 25.64                    | 0.00                      | 2157       | 0              | 1007                    | 2110                   | 3118          |
| 13                                                 | 210          | 45.35                   | 3.812                             | 10.874                 | 0.00                       | 0.175 | 2.68           | 0.80           | 1.00           | 0.0                     | 9.32                   | 24.99                    | 0.00                      | 2137       | 0              | 963                     | 2070                   | 3033          |
| 12                                                 | 190          | 44.40                   | 13.643                            | 9.167                  | 0.00                       | 0.270 | 2.38           | 0.80           | 1.00           | 0.0                     | 16.32                  | 38.85                    | 0.00                      | 3165       | 0              | 1466                    | 2182                   | 3648          |
| 11                                                 | 170          | 43.38                   | 13.738                            | 9.167                  | 0.00                       | 0.271 | 2.38           | 0.80           | 1.00           | 0.0                     | 16.40                  | 38.98                    | 0.00                      | 3185       | 0              | 1437                    | 2268                   | 3705          |
| 10                                                 | 150          | 42.25                   | 13.643                            | 9.167                  | 0.00                       | 0.270 | 2.38           | 0.80           | 1.00           | 0.0                     | 16.32                  | 38.85                    | 0.00                      | 3210       | 0              | 1395                    | 2372                   | 3767          |
| 9                                                  | 130          | 40.99                   | 3.792                             | 11.695                 | 0.00                       | 0.184 | 2.65           | 0.80           | 1.00           | 0.0                     | 9.80                   | 25.96                    | 0.00                      | 2449       | 0              | 905                     | 2416                   | 3320          |
| 8                                                  | 110          | 39.58                   | 4.160                             | 11.695                 | 0.00                       | 0.188 | 2.64           | 0.80           | 1.00           | 0.0                     | 10.10                  | 26.61                    | 0.00                      | 2469       | 0              | 895                     | 2332                   | 3228          |
| 7                                                  | 90           | 37.94                   | 3.792                             | 11.695                 | 0.00                       | 0.184 | 2.65           | 0.80           | 1.00           | 0.0                     | 9.80                   | 25.96                    | 0.00                      | 2457       | 0              | 837                     | 2276                   | 3113          |
| 6                                                  | 70           | 35.98                   | 3.792                             | 11.695                 | 0.00                       | 0.184 | 2.65           | 0.80           | 1.00           | 0.0                     | 9.80                   | 25.96                    | 0.00                      | 2457       | 0              | 794                     | 2161                   | 2955          |
| 5                                                  | 50           | 33.52                   | 4.160                             | 11.695                 | 0.00                       | 0.188 | 2.64           | 0.80           | 1.00           | 0.0                     | 10.10                  | 26.61                    | 0.00                      | 2477       | 0              | 758                     | 2013                   | 2771          |
| 4                                                  | 30           | 30.11                   | 3.792                             | 11.695                 | 0.00                       | 0.184 | 2.65           | 0.80           | 1.00           | 0.0                     | 9.80                   | 25.96                    | 0.00                      | 2457       | 0              | 664                     | 1808                   | 2472          |
| 3                                                  | 14           | 26.05                   | 1.896                             | 7.021                  | 0.00                       | 0.177 | 2.68           | 0.80           | 1.00           | 0.0                     | 5.57                   | 14.90                    | 0.00                      | 1454       | 0              | 330                     | 939                    | 1269          |
| 2                                                  | 7            | 26.05                   | 1.264                             | 1.353                  | 0.00                       | 0.311 | 2.27           | 0.80           | 1.00           | 0.0                     | 1.84                   | 4.18                     | 0.00                      | 312        | 0              | 92                      | 156                    | 249           |
| 1                                                  | 3            | 26.05                   | 3.625                             | 2.947                  | 0.00                       | 0.491 | 1.91           | 0.80           | 1.00           | 0.0                     | 4.91                   | 9.38                     | 0.00                      | 1058       | 0              | 208                     | 398                    | 605           |
| ** = Section Force Exceeds Solidity Ratio Criteria |              |                         |                                   |                        |                            |       |                |                |                |                         |                        |                          |                           | Totals     | 39,704         | 0                       | 45,292                 |               |

| 1.2D + 1.0W 90°                                    |              |                         | Gust Response Factor (Gh): 0.85   |                        |                            |       |                |                |                |                         |                        |                          |                           |            |                |                         |                        |               |
|----------------------------------------------------|--------------|-------------------------|-----------------------------------|------------------------|----------------------------|-------|----------------|----------------|----------------|-------------------------|------------------------|--------------------------|---------------------------|------------|----------------|-------------------------|------------------------|---------------|
| 119 mph Wind with No Ice                           |              |                         | Wind Importance Factor (Iw): 1.00 |                        |                            |       |                |                |                |                         |                        |                          |                           |            |                |                         |                        |               |
| Section #                                          | Elev<br>(ft) | Q <sub>Z</sub><br>(psf) | A <sub>r</sub><br>(sf)            | A <sub>r</sub><br>(sf) | Ice A <sub>r</sub><br>(sf) | e     | C <sub>r</sub> | D <sub>r</sub> | D <sub>r</sub> | T <sub>iz</sub><br>(in) | A <sub>e</sub><br>(sf) | EPA <sub>a</sub><br>(sf) | EPA <sub>ai</sub><br>(sf) | Wt<br>(lb) | Ice Wt<br>(lb) | F <sub>st</sub><br>(lb) | F <sub>a</sub><br>(lb) | Force<br>(lb) |
| 20                                                 | 326          | 49.75                   | 1.271                             | 4.345                  | 0.00                       | 0.168 | 2.71           | 0.85           | 1.00           | 0.0                     | 3.58                   | 9.70                     | 0.00                      | 647        | 0              | 410                     | 41                     | 451           |
| 19                                                 | 321          | 49.59                   | 1.271                             | 1.272                  | 0.00                       | 0.304 | 2.29           | 0.85           | 1.00           | 0.0                     | 1.86                   | 4.25                     | 0.00                      | 231        | 0              | 179                     | 10                     | 189           |
| 18                                                 | 310          | 49.22                   | 4.177                             | 10.874                 | 0.00                       | 0.180 | 2.67           | 0.85           | 1.00           | 0.0                     | 9.83                   | 26.20                    | 0.00                      | 1673       | 0              | 1096                    | 100                    | 1196          |
| 17                                                 | 290          | 48.54                   | 3.812                             | 10.874                 | 0.00                       | 0.175 | 2.68           | 0.85           | 1.00           | 0.0                     | 9.51                   | 25.50                    | 0.00                      | 1764       | 0              | 1052                    | 419                    | 1471          |
| 16                                                 | 270          | 47.81                   | 4.177                             | 10.874                 | 0.00                       | 0.180 | 2.67           | 0.85           | 1.00           | 0.0                     | 9.83                   | 26.20                    | 0.00                      | 1861       | 0              | 1065                    | 893                    | 1957          |
| 15                                                 | 250          | 47.04                   | 3.812                             | 10.874                 | 0.00                       | 0.175 | 2.68           | 0.85           | 1.00           | 0.0                     | 9.51                   | 25.50                    | 0.00                      | 2085       | 0              | 1020                    | 1857                   | 2877          |
| 14                                                 | 230          | 46.23                   | 4.177                             | 10.874                 | 0.00                       | 0.180 | 2.67           | 0.85           | 1.00           | 0.0                     | 9.83                   | 26.20                    | 0.00                      | 2157       | 0              | 1029                    | 2110                   | 3139          |
| 13                                                 | 210          | 45.35                   | 3.812                             | 10.874                 | 0.00                       | 0.175 | 2.68           | 0.85           | 1.00           | 0.0                     | 9.51                   | 25.50                    | 0.00                      | 2137       | 0              | 983                     | 2070                   | 3053          |
| 12                                                 | 190          | 44.40                   | 13.643                            | 9.167                  | 0.00                       | 0.270 | 2.38           | 0.85           | 1.00           | 0.0                     | 17.01                  | 40.47                    | 0.00                      | 3165       | 0              | 1527                    | 2182                   | 3709          |
| 11                                                 | 170          | 43.38                   | 13.738                            | 9.167                  | 0.00                       | 0.271 | 2.38           | 0.85           | 1.00           | 0.0                     | 17.09                  | 40.61                    | 0.00                      | 3185       | 0              | 1497                    | 2268                   | 3766          |
| 10                                                 | 150          | 42.25                   | 13.643                            | 9.167                  | 0.00                       | 0.270 | 2.38           | 0.85           | 1.00           | 0.0                     | 17.01                  | 40.47                    | 0.00                      | 3210       | 0              | 1453                    | 2372                   | 3825          |
| 9                                                  | 130          | 40.99                   | 3.792                             | 11.695                 | 0.00                       | 0.184 | 2.65           | 0.85           | 1.00           | 0.0                     | 9.99                   | 26.46                    | 0.00                      | 2449       | 0              | 922                     | 2416                   | 3338          |
| 8                                                  | 110          | 39.58                   | 4.160                             | 11.695                 | 0.00                       | 0.188 | 2.64           | 0.85           | 1.00           | 0.0                     | 10.31                  | 27.16                    | 0.00                      | 2469       | 0              | 914                     | 2332                   | 3246          |
| 7                                                  | 90           | 37.94                   | 3.792                             | 11.695                 | 0.00                       | 0.184 | 2.65           | 0.85           | 1.00           | 0.0                     | 9.99                   | 26.46                    | 0.00                      | 2457       | 0              | 853                     | 2276                   | 3129          |
| 6                                                  | 70           | 35.98                   | 3.792                             | 11.695                 | 0.00                       | 0.184 | 2.65           | 0.85           | 1.00           | 0.0                     | 9.99                   | 26.46                    | 0.00                      | 2457       | 0              | 809                     | 2161                   | 2970          |
| 5                                                  | 50           | 33.52                   | 4.160                             | 11.695                 | 0.00                       | 0.188 | 2.64           | 0.85           | 1.00           | 0.0                     | 10.31                  | 27.16                    | 0.00                      | 2477       | 0              | 774                     | 2013                   | 2787          |
| 4                                                  | 30           | 30.11                   | 3.792                             | 11.695                 | 0.00                       | 0.184 | 2.65           | 0.85           | 1.00           | 0.0                     | 9.99                   | 26.46                    | 0.00                      | 2457       | 0              | 677                     | 1808                   | 2485          |
| 3                                                  | 14           | 26.05                   | 1.896                             | 7.021                  | 0.00                       | 0.177 | 2.68           | 0.85           | 1.00           | 0.0                     | 5.66                   | 15.16                    | 0.00                      | 1454       | 0              | 336                     | 939                    | 1274          |
| 2                                                  | 7            | 26.05                   | 1.264                             | 1.353                  | 0.00                       | 0.311 | 2.27           | 0.85           | 1.00           | 0.0                     | 1.91                   | 4.32                     | 0.00                      | 312        | 0              | 96                      | 156                    | 252           |
| 1                                                  | 3            | 26.05                   | 3.625                             | 2.947                  | 0.00                       | 0.491 | 1.91           | 0.85           | 1.00           | 0.0                     | 5.09                   | 9.72                     | 0.00                      | 1058       | 0              | 215                     | 398                    | 613           |
| ** = Section Force Exceeds Solidity Ratio Criteria |              |                         |                                   |                        |                            |       |                |                |                |                         |                        |                          | Totals                    | 39,704     | 0              | 45,727                  |                        |               |

ASSET: 2543, Five Points  
CUSTOMER: T-MOBILE

CODE: ANSI/TIA-222-H  
PROJECT: 14910189\_C3\_03

| SECTION FORCES                                     |              |                         |                        |                        |                            |                              |                |                |                |                         |                        |                          |                           |            |                |                         |                        |               |
|----------------------------------------------------|--------------|-------------------------|------------------------|------------------------|----------------------------|------------------------------|----------------|----------------|----------------|-------------------------|------------------------|--------------------------|---------------------------|------------|----------------|-------------------------|------------------------|---------------|
| 1.2D + 1.0W 120°                                   |              |                         |                        |                        |                            | Gust Response Factor (Gh):   |                | 0.85           |                |                         |                        |                          |                           |            |                |                         |                        |               |
| 119 mph Wind with No Ice                           |              |                         |                        |                        |                            | Wind Importance Factor (Iw): |                | 1.00           |                |                         |                        |                          |                           |            |                |                         |                        |               |
| Section #                                          | Elev<br>(ft) | Q <sub>z</sub><br>(psf) | A <sub>r</sub><br>(sf) | A <sub>r</sub><br>(sf) | Ice A <sub>r</sub><br>(sf) | e                            | C <sub>t</sub> | D <sub>t</sub> | D <sub>r</sub> | T <sub>iz</sub><br>(in) | A <sub>e</sub><br>(sf) | EPA <sub>a</sub><br>(sf) | EPA <sub>ai</sub><br>(sf) | Wt<br>(lb) | Ice Wt<br>(lb) | F <sub>st</sub><br>(lb) | F <sub>a</sub><br>(lb) | Force<br>(lb) |
| 20                                                 | 326          | 49.75                   | 1.271                  | 4.345                  | 0.00                       | 0.168                        | 2.71           | 1.00           | 1.00           | 0.0                     | 3.77                   | 10.21                    | 0.00                      | 647        | 0              | 432                     | 41                     | 473           |
| 19                                                 | 321          | 49.59                   | 1.271                  | 1.272                  | 0.00                       | 0.304                        | 2.29           | 1.00           | 1.00           | 0.0                     | 2.05                   | 4.68                     | 0.00                      | 231        | 0              | 197                     | 10                     | 208           |
| 18                                                 | 310          | 49.22                   | 4.177                  | 10.874                 | 0.00                       | 0.180                        | 2.67           | 1.00           | 1.00           | 0.0                     | 10.46                  | 27.87                    | 0.00                      | 1673       | 0              | 1166                    | 100                    | 1266          |
| 17                                                 | 290          | 48.54                   | 3.812                  | 10.874                 | 0.00                       | 0.175                        | 2.68           | 1.00           | 1.00           | 0.0                     | 10.08                  | 27.03                    | 0.00                      | 1764       | 0              | 1115                    | 419                    | 1534          |
| 16                                                 | 270          | 47.81                   | 4.177                  | 10.874                 | 0.00                       | 0.180                        | 2.67           | 1.00           | 1.00           | 0.0                     | 10.46                  | 27.87                    | 0.00                      | 1861       | 0              | 1132                    | 893                    | 2025          |
| 15                                                 | 250          | 47.04                   | 3.812                  | 10.874                 | 0.00                       | 0.175                        | 2.68           | 1.00           | 1.00           | 0.0                     | 10.08                  | 27.03                    | 0.00                      | 2085       | 0              | 1081                    | 1857                   | 2938          |
| 14                                                 | 230          | 46.23                   | 4.177                  | 10.874                 | 0.00                       | 0.180                        | 2.67           | 1.00           | 1.00           | 0.0                     | 10.46                  | 27.87                    | 0.00                      | 2157       | 0              | 1095                    | 2110                   | 3205          |
| 13                                                 | 210          | 45.35                   | 3.812                  | 10.874                 | 0.00                       | 0.175                        | 2.68           | 1.00           | 1.00           | 0.0                     | 10.08                  | 27.03                    | 0.00                      | 2137       | 0              | 1042                    | 2070                   | 3112          |
| 12                                                 | 190          | 44.40                   | 13.643                 | 9.167                  | 0.00                       | 0.270                        | 2.38           | 1.00           | 1.00           | 0.0                     | 19.05                  | 45.34                    | 0.00                      | 3165       | 0              | 1711                    | 2182                   | 3893          |
| 11                                                 | 170          | 43.38                   | 13.738                 | 9.167                  | 0.00                       | 0.271                        | 2.38           | 1.00           | 1.00           | 0.0                     | 19.15                  | 45.51                    | 0.00                      | 3185       | 0              | 1678                    | 2268                   | 3946          |
| 10                                                 | 150          | 42.25                   | 13.643                 | 9.167                  | 0.00                       | 0.270                        | 2.38           | 1.00           | 1.00           | 0.0                     | 19.05                  | 45.34                    | 0.00                      | 3210       | 0              | 1628                    | 2372                   | 4000          |
| 9                                                  | 130          | 40.99                   | 3.792                  | 11.695                 | 0.00                       | 0.184                        | 2.65           | 1.00           | 1.00           | 0.0                     | 10.55                  | 27.97                    | 0.00                      | 2449       | 0              | 975                     | 2416                   | 3390          |
| 8                                                  | 110          | 39.58                   | 4.160                  | 11.695                 | 0.00                       | 0.188                        | 2.64           | 1.00           | 1.00           | 0.0                     | 10.93                  | 28.80                    | 0.00                      | 2469       | 0              | 969                     | 2332                   | 3301          |
| 7                                                  | 90           | 37.94                   | 3.792                  | 11.695                 | 0.00                       | 0.184                        | 2.65           | 1.00           | 1.00           | 0.0                     | 10.55                  | 27.97                    | 0.00                      | 2457       | 0              | 902                     | 2276                   | 3178          |
| 6                                                  | 70           | 35.98                   | 3.792                  | 11.695                 | 0.00                       | 0.184                        | 2.65           | 1.00           | 1.00           | 0.0                     | 10.55                  | 27.97                    | 0.00                      | 2457       | 0              | 856                     | 2161                   | 3016          |
| 5                                                  | 50           | 33.52                   | 4.160                  | 11.695                 | 0.00                       | 0.188                        | 2.64           | 1.00           | 1.00           | 0.0                     | 10.93                  | 28.80                    | 0.00                      | 2477       | 0              | 821                     | 2013                   | 2834          |
| 4                                                  | 30           | 30.11                   | 3.792                  | 11.695                 | 0.00                       | 0.184                        | 2.65           | 1.00           | 1.00           | 0.0                     | 10.55                  | 27.97                    | 0.00                      | 2457       | 0              | 716                     | 1808                   | 2523          |
| 3                                                  | 14           | 26.05                   | 1.896                  | 7.021                  | 0.00                       | 0.177                        | 2.68           | 1.00           | 1.00           | 0.0                     | 5.95                   | 15.92                    | 0.00                      | 1454       | 0              | 352                     | 939                    | 1291          |
| 2                                                  | 7            | 26.05                   | 1.264                  | 1.353                  | 0.00                       | 0.311                        | 2.27           | 1.00           | 1.00           | 0.0                     | 2.09                   | 4.75                     | 0.00                      | 312        | 0              | 105                     | 156                    | 262           |
| 1                                                  | 3            | 26.05                   | 3.625                  | 2.947                  | 0.00                       | 0.491                        | 1.91           | 1.00           | 1.00           | 0.0                     | 5.63                   | 10.76                    | 0.00                      | 1058       | 0              | 238                     | 398                    | 622           |
| ** = Section Force Exceeds Solidity Ratio Criteria |              |                         |                        |                        |                            |                              |                |                |                |                         |                        |                          |                           | Totals     | 39,704         | 0                       |                        | 47,016        |

| 1.2D + 1.0W 180°                                   |              |                         | Gust Response Factor (Gh): 0.85   |                        |                            |       |                |                |                |                         |                        |                          |                           |            |                |                         |                        |               |
|----------------------------------------------------|--------------|-------------------------|-----------------------------------|------------------------|----------------------------|-------|----------------|----------------|----------------|-------------------------|------------------------|--------------------------|---------------------------|------------|----------------|-------------------------|------------------------|---------------|
| 119 mph Wind with No Ice                           |              |                         | Wind Importance Factor (Iw): 1.00 |                        |                            |       |                |                |                |                         |                        |                          |                           |            |                |                         |                        |               |
| Section #                                          | Elev<br>(ft) | Q <sub>Z</sub><br>(psf) | A <sub>t</sub><br>(sf)            | A <sub>r</sub><br>(sf) | Ice A <sub>r</sub><br>(sf) | e     | C <sub>f</sub> | D <sub>f</sub> | D <sub>r</sub> | T <sub>iz</sub><br>(in) | A <sub>e</sub><br>(sf) | EPA <sub>a</sub><br>(sf) | EPA <sub>ai</sub><br>(sf) | Wt<br>(lb) | Ice Wt<br>(lb) | F <sub>st</sub><br>(lb) | F <sub>a</sub><br>(lb) | Force<br>(lb) |
| 20                                                 | 326          | 49.75                   | 1.271                             | 4.345                  | 0.00                       | 0.168 | 2.71           | 0.80           | 1.00           | 0.0                     | 3.52                   | 9.53                     | 0.00                      | 647        | 0              | 403                     | 41                     | 443           |
| 19                                                 | 321          | 49.59                   | 1.271                             | 1.272                  | 0.00                       | 0.304 | 2.29           | 0.80           | 1.00           | 0.0                     | 1.79                   | 4.10                     | 0.00                      | 231        | 0              | 173                     | 10                     | 183           |
| 18                                                 | 310          | 49.22                   | 4.177                             | 10.874                 | 0.00                       | 0.180 | 2.67           | 0.80           | 1.00           | 0.0                     | 9.62                   | 25.64                    | 0.00                      | 1673       | 0              | 1073                    | 100                    | 1173          |
| 17                                                 | 290          | 48.54                   | 3.812                             | 10.874                 | 0.00                       | 0.175 | 2.68           | 0.80           | 1.00           | 0.0                     | 9.32                   | 24.99                    | 0.00                      | 1764       | 0              | 1031                    | 419                    | 1449          |
| 16                                                 | 270          | 47.81                   | 4.177                             | 10.874                 | 0.00                       | 0.180 | 2.67           | 0.80           | 1.00           | 0.0                     | 9.62                   | 25.64                    | 0.00                      | 1861       | 0              | 1042                    | 893                    | 1935          |
| 15                                                 | 250          | 47.04                   | 3.812                             | 10.874                 | 0.00                       | 0.175 | 2.68           | 0.80           | 1.00           | 0.0                     | 9.32                   | 24.99                    | 0.00                      | 2085       | 0              | 999                     | 1857                   | 2856          |
| 14                                                 | 230          | 46.23                   | 4.177                             | 10.874                 | 0.00                       | 0.180 | 2.67           | 0.80           | 1.00           | 0.0                     | 9.62                   | 25.64                    | 0.00                      | 2157       | 0              | 1007                    | 2110                   | 3118          |
| 13                                                 | 210          | 45.35                   | 3.812                             | 10.874                 | 0.00                       | 0.175 | 2.68           | 0.80           | 1.00           | 0.0                     | 9.32                   | 24.99                    | 0.00                      | 2137       | 0              | 963                     | 2070                   | 3033          |
| 12                                                 | 190          | 44.40                   | 13.643                            | 9.167                  | 0.00                       | 0.270 | 2.38           | 0.80           | 1.00           | 0.0                     | 16.32                  | 38.85                    | 0.00                      | 3165       | 0              | 1466                    | 2182                   | 3648          |
| 11                                                 | 170          | 43.38                   | 13.738                            | 9.167                  | 0.00                       | 0.271 | 2.38           | 0.80           | 1.00           | 0.0                     | 16.40                  | 38.98                    | 0.00                      | 3185       | 0              | 1437                    | 2268                   | 3705          |
| 10                                                 | 150          | 42.25                   | 13.643                            | 9.167                  | 0.00                       | 0.270 | 2.38           | 0.80           | 1.00           | 0.0                     | 16.32                  | 38.85                    | 0.00                      | 3210       | 0              | 1395                    | 2372                   | 3767          |
| 9                                                  | 130          | 40.99                   | 3.792                             | 11.695                 | 0.00                       | 0.184 | 2.65           | 0.80           | 1.00           | 0.0                     | 9.80                   | 25.96                    | 0.00                      | 2449       | 0              | 905                     | 2416                   | 3320          |
| 8                                                  | 110          | 39.58                   | 4.160                             | 11.695                 | 0.00                       | 0.188 | 2.64           | 0.80           | 1.00           | 0.0                     | 10.10                  | 26.61                    | 0.00                      | 2469       | 0              | 895                     | 2332                   | 3228          |
| 7                                                  | 90           | 37.94                   | 3.792                             | 11.695                 | 0.00                       | 0.184 | 2.65           | 0.80           | 1.00           | 0.0                     | 9.80                   | 25.96                    | 0.00                      | 2457       | 0              | 837                     | 2276                   | 3113          |
| 6                                                  | 70           | 35.98                   | 3.792                             | 11.695                 | 0.00                       | 0.184 | 2.65           | 0.80           | 1.00           | 0.0                     | 9.80                   | 25.96                    | 0.00                      | 2457       | 0              | 794                     | 2161                   | 2955          |
| 5                                                  | 50           | 33.52                   | 4.160                             | 11.695                 | 0.00                       | 0.188 | 2.64           | 0.80           | 1.00           | 0.0                     | 10.10                  | 26.61                    | 0.00                      | 2477       | 0              | 758                     | 2013                   | 2771          |
| 4                                                  | 30           | 30.11                   | 3.792                             | 11.695                 | 0.00                       | 0.184 | 2.65           | 0.80           | 1.00           | 0.0                     | 9.80                   | 25.96                    | 0.00                      | 2457       | 0              | 664                     | 1808                   | 2472          |
| 3                                                  | 14           | 26.05                   | 1.896                             | 7.021                  | 0.00                       | 0.177 | 2.68           | 0.80           | 1.00           | 0.0                     | 5.57                   | 14.90                    | 0.00                      | 1454       | 0              | 330                     | 939                    | 1269          |
| 2                                                  | 7            | 26.05                   | 1.264                             | 1.353                  | 0.00                       | 0.311 | 2.27           | 0.80           | 1.00           | 0.0                     | 1.84                   | 4.18                     | 0.00                      | 312        | 0              | 92                      | 156                    | 249           |
| 1                                                  | 3            | 26.05                   | 3.625                             | 2.947                  | 0.00                       | 0.491 | 1.91           | 0.80           | 1.00           | 0.0                     | 4.91                   | 9.38                     | 0.00                      | 1058       | 0              | 208                     | 398                    | 605           |
| ** = Section Force Exceeds Solidity Ratio Criteria |              |                         |                                   |                        |                            |       |                |                |                |                         |                        |                          |                           | Totals     | 39,704         | 0                       |                        | 45,292        |

| 1.2D + 1.0W 210°                                   |              |                         | Gust Response Factor (Gh): 0.85   |                        |                            |       |                |                |                |                         |                        |                          |                           |            |                |                         |                        |               |
|----------------------------------------------------|--------------|-------------------------|-----------------------------------|------------------------|----------------------------|-------|----------------|----------------|----------------|-------------------------|------------------------|--------------------------|---------------------------|------------|----------------|-------------------------|------------------------|---------------|
| 119 mph Wind with No Ice                           |              |                         | Wind Importance Factor (Iw): 1.00 |                        |                            |       |                |                |                |                         |                        |                          |                           |            |                |                         |                        |               |
| Section #                                          | Elev<br>(ft) | Q <sub>Z</sub><br>(psf) | A <sub>r</sub><br>(sf)            | A <sub>r</sub><br>(sf) | Ice A <sub>r</sub><br>(sf) | e     | C <sub>r</sub> | D <sub>r</sub> | D <sub>r</sub> | T <sub>iz</sub><br>(in) | A <sub>e</sub><br>(sf) | EPA <sub>a</sub><br>(sf) | EPA <sub>ai</sub><br>(sf) | Wt<br>(lb) | Ice Wt<br>(lb) | F <sub>st</sub><br>(lb) | F <sub>a</sub><br>(lb) | Force<br>(lb) |
| 20                                                 | 326          | 49.75                   | 1.271                             | 4.345                  | 0.00                       | 0.168 | 2.71           | 0.85           | 1.00           | 0.0                     | 3.58                   | 9.70                     | 0.00                      | 647        | 0              | 410                     | 41                     | 451           |
| 19                                                 | 321          | 49.59                   | 1.271                             | 1.272                  | 0.00                       | 0.304 | 2.29           | 0.85           | 1.00           | 0.0                     | 1.86                   | 4.25                     | 0.00                      | 231        | 0              | 179                     | 10                     | 189           |
| 18                                                 | 310          | 49.22                   | 4.177                             | 10.874                 | 0.00                       | 0.180 | 2.67           | 0.85           | 1.00           | 0.0                     | 9.83                   | 26.20                    | 0.00                      | 1673       | 0              | 1096                    | 100                    | 1196          |
| 17                                                 | 290          | 48.54                   | 3.812                             | 10.874                 | 0.00                       | 0.175 | 2.68           | 0.85           | 1.00           | 0.0                     | 9.51                   | 25.50                    | 0.00                      | 1764       | 0              | 1052                    | 419                    | 1471          |
| 16                                                 | 270          | 47.81                   | 4.177                             | 10.874                 | 0.00                       | 0.180 | 2.67           | 0.85           | 1.00           | 0.0                     | 9.83                   | 26.20                    | 0.00                      | 1861       | 0              | 1065                    | 893                    | 1957          |
| 15                                                 | 250          | 47.04                   | 3.812                             | 10.874                 | 0.00                       | 0.175 | 2.68           | 0.85           | 1.00           | 0.0                     | 9.51                   | 25.50                    | 0.00                      | 2085       | 0              | 1020                    | 1857                   | 2877          |
| 14                                                 | 230          | 46.23                   | 4.177                             | 10.874                 | 0.00                       | 0.180 | 2.67           | 0.85           | 1.00           | 0.0                     | 9.83                   | 26.20                    | 0.00                      | 2157       | 0              | 1029                    | 2110                   | 3139          |
| 13                                                 | 210          | 45.35                   | 3.812                             | 10.874                 | 0.00                       | 0.175 | 2.68           | 0.85           | 1.00           | 0.0                     | 9.51                   | 25.50                    | 0.00                      | 2137       | 0              | 983                     | 2070                   | 3053          |
| 12                                                 | 190          | 44.40                   | 13.643                            | 9.167                  | 0.00                       | 0.270 | 2.38           | 0.85           | 1.00           | 0.0                     | 17.01                  | 40.47                    | 0.00                      | 3165       | 0              | 1527                    | 2182                   | 3709          |
| 11                                                 | 170          | 43.38                   | 13.738                            | 9.167                  | 0.00                       | 0.271 | 2.38           | 0.85           | 1.00           | 0.0                     | 17.09                  | 40.61                    | 0.00                      | 3185       | 0              | 1497                    | 2268                   | 3766          |
| 10                                                 | 150          | 42.25                   | 13.643                            | 9.167                  | 0.00                       | 0.270 | 2.38           | 0.85           | 1.00           | 0.0                     | 17.01                  | 40.47                    | 0.00                      | 3210       | 0              | 1453                    | 2372                   | 3825          |
| 9                                                  | 130          | 40.99                   | 3.792                             | 11.695                 | 0.00                       | 0.184 | 2.65           | 0.85           | 1.00           | 0.0                     | 9.99                   | 26.46                    | 0.00                      | 2449       | 0              | 922                     | 2416                   | 3338          |
| 8                                                  | 110          | 39.58                   | 4.160                             | 11.695                 | 0.00                       | 0.188 | 2.64           | 0.85           | 1.00           | 0.0                     | 10.31                  | 27.16                    | 0.00                      | 2469       | 0              | 914                     | 2332                   | 3246          |
| 7                                                  | 90           | 37.94                   | 3.792                             | 11.695                 | 0.00                       | 0.184 | 2.65           | 0.85           | 1.00           | 0.0                     | 9.99                   | 26.46                    | 0.00                      | 2457       | 0              | 853                     | 2276                   | 3129          |
| 6                                                  | 70           | 35.98                   | 3.792                             | 11.695                 | 0.00                       | 0.184 | 2.65           | 0.85           | 1.00           | 0.0                     | 9.99                   | 26.46                    | 0.00                      | 2457       | 0              | 809                     | 2161                   | 2970          |
| 5                                                  | 50           | 33.52                   | 4.160                             | 11.695                 | 0.00                       | 0.188 | 2.64           | 0.85           | 1.00           | 0.0                     | 10.31                  | 27.16                    | 0.00                      | 2477       | 0              | 774                     | 2013                   | 2787          |
| 4                                                  | 30           | 30.11                   | 3.792                             | 11.695                 | 0.00                       | 0.184 | 2.65           | 0.85           | 1.00           | 0.0                     | 9.99                   | 26.46                    | 0.00                      | 2457       | 0              | 677                     | 1808                   | 2485          |
| 3                                                  | 14           | 26.05                   | 1.896                             | 7.021                  | 0.00                       | 0.177 | 2.68           | 0.85           | 1.00           | 0.0                     | 5.66                   | 15.16                    | 0.00                      | 1454       | 0              | 336                     | 939                    | 1274          |
| 2                                                  | 7            | 26.05                   | 1.264                             | 1.353                  | 0.00                       | 0.311 | 2.27           | 0.85           | 1.00           | 0.0                     | 1.91                   | 4.32                     | 0.00                      | 312        | 0              | 96                      | 156                    | 252           |
| 1                                                  | 3            | 26.05                   | 3.625                             | 2.947                  | 0.00                       | 0.491 | 1.91           | 0.85           | 1.00           | 0.0                     | 5.09                   | 9.72                     | 0.00                      | 1058       | 0              | 215                     | 398                    | 613           |
| ** = Section Force Exceeds Solidity Ratio Criteria |              |                         |                                   |                        |                            |       |                |                |                |                         |                        |                          | Totals                    | 39,704     | 0              | 45,727                  |                        |               |

ASSET: 2543, Five Points  
CUSTOMER: T-MOBILE

CODE: ANSI/TIA-222-H  
PROJECT: 14910189\_C3\_03

| SECTION FORCES                                     |              |                         |                        |                        |                            |                              |                |                |                |                         |                        |                          |                           |            |                |                         |                        |               |
|----------------------------------------------------|--------------|-------------------------|------------------------|------------------------|----------------------------|------------------------------|----------------|----------------|----------------|-------------------------|------------------------|--------------------------|---------------------------|------------|----------------|-------------------------|------------------------|---------------|
| 1.2D + 1.0W 240°                                   |              |                         |                        |                        |                            | Gust Response Factor (Gh):   |                | 0.85           |                |                         |                        |                          |                           |            |                |                         |                        |               |
| 119 mph Wind with No Ice                           |              |                         |                        |                        |                            | Wind Importance Factor (Iw): |                | 1.00           |                |                         |                        |                          |                           |            |                |                         |                        |               |
| Section #                                          | Elev<br>(ft) | Q <sub>z</sub><br>(psf) | A <sub>r</sub><br>(sf) | A <sub>r</sub><br>(sf) | Ice A <sub>r</sub><br>(sf) | e                            | C <sub>t</sub> | D <sub>t</sub> | D <sub>r</sub> | T <sub>iz</sub><br>(in) | A <sub>e</sub><br>(sf) | EPA <sub>a</sub><br>(sf) | EPA <sub>ai</sub><br>(sf) | Wt<br>(lb) | Ice Wt<br>(lb) | F <sub>st</sub><br>(lb) | F <sub>a</sub><br>(lb) | Force<br>(lb) |
| 20                                                 | 326          | 49.75                   | 1.271                  | 4.345                  | 0.00                       | 0.168                        | 2.71           | 1.00           | 1.00           | 0.0                     | 3.77                   | 10.21                    | 0.00                      | 647        | 0              | 432                     | 41                     | 473           |
| 19                                                 | 321          | 49.59                   | 1.271                  | 1.272                  | 0.00                       | 0.304                        | 2.29           | 1.00           | 1.00           | 0.0                     | 2.05                   | 4.68                     | 0.00                      | 231        | 0              | 197                     | 10                     | 208           |
| 18                                                 | 310          | 49.22                   | 4.177                  | 10.874                 | 0.00                       | 0.180                        | 2.67           | 1.00           | 1.00           | 0.0                     | 10.46                  | 27.87                    | 0.00                      | 1673       | 0              | 1166                    | 100                    | 1266          |
| 17                                                 | 290          | 48.54                   | 3.812                  | 10.874                 | 0.00                       | 0.175                        | 2.68           | 1.00           | 1.00           | 0.0                     | 10.08                  | 27.03                    | 0.00                      | 1764       | 0              | 1115                    | 419                    | 1534          |
| 16                                                 | 270          | 47.81                   | 4.177                  | 10.874                 | 0.00                       | 0.180                        | 2.67           | 1.00           | 1.00           | 0.0                     | 10.46                  | 27.87                    | 0.00                      | 1861       | 0              | 1132                    | 893                    | 2025          |
| 15                                                 | 250          | 47.04                   | 3.812                  | 10.874                 | 0.00                       | 0.175                        | 2.68           | 1.00           | 1.00           | 0.0                     | 10.08                  | 27.03                    | 0.00                      | 2085       | 0              | 1081                    | 1857                   | 2938          |
| 14                                                 | 230          | 46.23                   | 4.177                  | 10.874                 | 0.00                       | 0.180                        | 2.67           | 1.00           | 1.00           | 0.0                     | 10.46                  | 27.87                    | 0.00                      | 2157       | 0              | 1095                    | 2110                   | 3205          |
| 13                                                 | 210          | 45.35                   | 3.812                  | 10.874                 | 0.00                       | 0.175                        | 2.68           | 1.00           | 1.00           | 0.0                     | 10.08                  | 27.03                    | 0.00                      | 2137       | 0              | 1042                    | 2070                   | 3112          |
| 12                                                 | 190          | 44.40                   | 13.643                 | 9.167                  | 0.00                       | 0.270                        | 2.38           | 1.00           | 1.00           | 0.0                     | 19.05                  | 45.34                    | 0.00                      | 3165       | 0              | 1711                    | 2182                   | 3893          |
| 11                                                 | 170          | 43.38                   | 13.738                 | 9.167                  | 0.00                       | 0.271                        | 2.38           | 1.00           | 1.00           | 0.0                     | 19.15                  | 45.51                    | 0.00                      | 3185       | 0              | 1678                    | 2268                   | 3946          |
| 10                                                 | 150          | 42.25                   | 13.643                 | 9.167                  | 0.00                       | 0.270                        | 2.38           | 1.00           | 1.00           | 0.0                     | 19.05                  | 45.34                    | 0.00                      | 3210       | 0              | 1628                    | 2372                   | 4000          |
| 9                                                  | 130          | 40.99                   | 3.792                  | 11.695                 | 0.00                       | 0.184                        | 2.65           | 1.00           | 1.00           | 0.0                     | 10.55                  | 27.97                    | 0.00                      | 2449       | 0              | 975                     | 2416                   | 3390          |
| 8                                                  | 110          | 39.58                   | 4.160                  | 11.695                 | 0.00                       | 0.188                        | 2.64           | 1.00           | 1.00           | 0.0                     | 10.93                  | 28.80                    | 0.00                      | 2469       | 0              | 969                     | 2332                   | 3301          |
| 7                                                  | 90           | 37.94                   | 3.792                  | 11.695                 | 0.00                       | 0.184                        | 2.65           | 1.00           | 1.00           | 0.0                     | 10.55                  | 27.97                    | 0.00                      | 2457       | 0              | 902                     | 2276                   | 3178          |
| 6                                                  | 70           | 35.98                   | 3.792                  | 11.695                 | 0.00                       | 0.184                        | 2.65           | 1.00           | 1.00           | 0.0                     | 10.55                  | 27.97                    | 0.00                      | 2457       | 0              | 856                     | 2161                   | 3016          |
| 5                                                  | 50           | 33.52                   | 4.160                  | 11.695                 | 0.00                       | 0.188                        | 2.64           | 1.00           | 1.00           | 0.0                     | 10.93                  | 28.80                    | 0.00                      | 2477       | 0              | 821                     | 2013                   | 2834          |
| 4                                                  | 30           | 30.11                   | 3.792                  | 11.695                 | 0.00                       | 0.184                        | 2.65           | 1.00           | 1.00           | 0.0                     | 10.55                  | 27.97                    | 0.00                      | 2457       | 0              | 716                     | 1808                   | 2523          |
| 3                                                  | 14           | 26.05                   | 1.896                  | 7.021                  | 0.00                       | 0.177                        | 2.68           | 1.00           | 1.00           | 0.0                     | 5.95                   | 15.92                    | 0.00                      | 1454       | 0              | 352                     | 939                    | 1291          |
| 2                                                  | 7            | 26.05                   | 1.264                  | 1.353                  | 0.00                       | 0.311                        | 2.27           | 1.00           | 1.00           | 0.0                     | 2.09                   | 4.75                     | 0.00                      | 312        | 0              | 105                     | 156                    | 262           |
| 1                                                  | 3            | 26.05                   | 3.625                  | 2.947                  | 0.00                       | 0.491                        | 1.91           | 1.00           | 1.00           | 0.0                     | 5.63                   | 10.76                    | 0.00                      | 1058       | 0              | 238                     | 398                    | 622           |
| ** = Section Force Exceeds Solidity Ratio Criteria |              |                         |                        |                        |                            |                              |                |                |                |                         |                        |                          |                           | Totals     | 39,704         | 0                       |                        | 47,016        |

| 1.2D + 1.0W 300°                                   |              |                         | Gust Response Factor (Gh): 0.85   |                        |                            |       |                |                |                |                         |                        |                          |                           |            |                |                         |                        |               |
|----------------------------------------------------|--------------|-------------------------|-----------------------------------|------------------------|----------------------------|-------|----------------|----------------|----------------|-------------------------|------------------------|--------------------------|---------------------------|------------|----------------|-------------------------|------------------------|---------------|
| 119 mph Wind with No Ice                           |              |                         | Wind Importance Factor (Iw): 1.00 |                        |                            |       |                |                |                |                         |                        |                          |                           |            |                |                         |                        |               |
| Section #                                          | Elev<br>(ft) | Q <sub>Z</sub><br>(psf) | A <sub>t</sub><br>(sf)            | A <sub>r</sub><br>(sf) | Ice A <sub>r</sub><br>(sf) | e     | C <sub>t</sub> | D <sub>t</sub> | D <sub>r</sub> | T <sub>iz</sub><br>(in) | A <sub>e</sub><br>(sf) | EPA <sub>a</sub><br>(sf) | EPA <sub>ai</sub><br>(sf) | Wt<br>(lb) | Ice Wt<br>(lb) | F <sub>st</sub><br>(lb) | F <sub>a</sub><br>(lb) | Force<br>(lb) |
| 20                                                 | 326          | 49.75                   | 1.271                             | 4.345                  | 0.00                       | 0.168 | 2.71           | 0.80           | 1.00           | 0.0                     | 3.52                   | 9.53                     | 0.00                      | 647        | 0              | 403                     | 41                     | 443           |
| 19                                                 | 321          | 49.59                   | 1.271                             | 1.272                  | 0.00                       | 0.304 | 2.29           | 0.80           | 1.00           | 0.0                     | 1.79                   | 4.10                     | 0.00                      | 231        | 0              | 173                     | 10                     | 183           |
| 18                                                 | 310          | 49.22                   | 4.177                             | 10.874                 | 0.00                       | 0.180 | 2.67           | 0.80           | 1.00           | 0.0                     | 9.62                   | 25.64                    | 0.00                      | 1673       | 0              | 1073                    | 100                    | 1173          |
| 17                                                 | 290          | 48.54                   | 3.812                             | 10.874                 | 0.00                       | 0.175 | 2.68           | 0.80           | 1.00           | 0.0                     | 9.32                   | 24.99                    | 0.00                      | 1764       | 0              | 1031                    | 419                    | 1449          |
| 16                                                 | 270          | 47.81                   | 4.177                             | 10.874                 | 0.00                       | 0.180 | 2.67           | 0.80           | 1.00           | 0.0                     | 9.62                   | 25.64                    | 0.00                      | 1861       | 0              | 1042                    | 893                    | 1935          |
| 15                                                 | 250          | 47.04                   | 3.812                             | 10.874                 | 0.00                       | 0.175 | 2.68           | 0.80           | 1.00           | 0.0                     | 9.32                   | 24.99                    | 0.00                      | 2085       | 0              | 999                     | 1857                   | 2856          |
| 14                                                 | 230          | 46.23                   | 4.177                             | 10.874                 | 0.00                       | 0.180 | 2.67           | 0.80           | 1.00           | 0.0                     | 9.62                   | 25.64                    | 0.00                      | 2157       | 0              | 1007                    | 2110                   | 3118          |
| 13                                                 | 210          | 45.35                   | 3.812                             | 10.874                 | 0.00                       | 0.175 | 2.68           | 0.80           | 1.00           | 0.0                     | 9.32                   | 24.99                    | 0.00                      | 2137       | 0              | 963                     | 2070                   | 3033          |
| 12                                                 | 190          | 44.40                   | 13.643                            | 9.167                  | 0.00                       | 0.270 | 2.38           | 0.80           | 1.00           | 0.0                     | 16.32                  | 38.85                    | 0.00                      | 3165       | 0              | 1466                    | 2182                   | 3648          |
| 11                                                 | 170          | 43.38                   | 13.738                            | 9.167                  | 0.00                       | 0.271 | 2.38           | 0.80           | 1.00           | 0.0                     | 16.40                  | 38.98                    | 0.00                      | 3185       | 0              | 1437                    | 2268                   | 3705          |
| 10                                                 | 150          | 42.25                   | 13.643                            | 9.167                  | 0.00                       | 0.270 | 2.38           | 0.80           | 1.00           | 0.0                     | 16.32                  | 38.85                    | 0.00                      | 3210       | 0              | 1395                    | 2372                   | 3767          |
| 9                                                  | 130          | 40.99                   | 3.792                             | 11.695                 | 0.00                       | 0.184 | 2.65           | 0.80           | 1.00           | 0.0                     | 9.80                   | 25.96                    | 0.00                      | 2449       | 0              | 905                     | 2416                   | 3320          |
| 8                                                  | 110          | 39.58                   | 4.160                             | 11.695                 | 0.00                       | 0.188 | 2.64           | 0.80           | 1.00           | 0.0                     | 10.10                  | 26.61                    | 0.00                      | 2469       | 0              | 895                     | 2332                   | 3228          |
| 7                                                  | 90           | 37.94                   | 3.792                             | 11.695                 | 0.00                       | 0.184 | 2.65           | 0.80           | 1.00           | 0.0                     | 9.80                   | 25.96                    | 0.00                      | 2457       | 0              | 837                     | 2276                   | 3113          |
| 6                                                  | 70           | 35.98                   | 3.792                             | 11.695                 | 0.00                       | 0.184 | 2.65           | 0.80           | 1.00           | 0.0                     | 9.80                   | 25.96                    | 0.00                      | 2457       | 0              | 794                     | 2161                   | 2955          |
| 5                                                  | 50           | 33.52                   | 4.160                             | 11.695                 | 0.00                       | 0.188 | 2.64           | 0.80           | 1.00           | 0.0                     | 10.10                  | 26.61                    | 0.00                      | 2477       | 0              | 758                     | 2013                   | 2771          |
| 4                                                  | 30           | 30.11                   | 3.792                             | 11.695                 | 0.00                       | 0.184 | 2.65           | 0.80           | 1.00           | 0.0                     | 9.80                   | 25.96                    | 0.00                      | 2457       | 0              | 664                     | 1808                   | 2472          |
| 3                                                  | 14           | 26.05                   | 1.896                             | 7.021                  | 0.00                       | 0.177 | 2.68           | 0.80           | 1.00           | 0.0                     | 5.57                   | 14.90                    | 0.00                      | 1454       | 0              | 330                     | 939                    | 1269          |
| 2                                                  | 7            | 26.05                   | 1.264                             | 1.353                  | 0.00                       | 0.311 | 2.27           | 0.80           | 1.00           | 0.0                     | 1.84                   | 4.18                     | 0.00                      | 312        | 0              | 92                      | 156                    | 249           |
| 1                                                  | 3            | 26.05                   | 3.625                             | 2.947                  | 0.00                       | 0.491 | 1.91           | 0.80           | 1.00           | 0.0                     | 4.91                   | 9.38                     | 0.00                      | 1058       | 0              | 208                     | 398                    | 605           |
| ** = Section Force Exceeds Solidity Ratio Criteria |              |                         |                                   |                        |                            |       |                |                |                |                         |                        |                          |                           | Totals     | 39,704         | 0                       | 45,292                 |               |

| 1.2D + 1.0W 330°                                   |              |                         | Gust Response Factor (Gh): 0.85   |                        |                            |       |                |                |                |                         |                        |                          |                           |            |                |                         |                        |               |
|----------------------------------------------------|--------------|-------------------------|-----------------------------------|------------------------|----------------------------|-------|----------------|----------------|----------------|-------------------------|------------------------|--------------------------|---------------------------|------------|----------------|-------------------------|------------------------|---------------|
| 119 mph Wind with No Ice                           |              |                         | Wind Importance Factor (Iw): 1.00 |                        |                            |       |                |                |                |                         |                        |                          |                           |            |                |                         |                        |               |
| Section #                                          | Elev<br>(ft) | Q <sub>Z</sub><br>(psf) | A <sub>r</sub><br>(sf)            | A <sub>r</sub><br>(sf) | Ice A <sub>r</sub><br>(sf) | e     | C <sub>r</sub> | D <sub>r</sub> | D <sub>r</sub> | T <sub>iz</sub><br>(in) | A <sub>e</sub><br>(sf) | EPA <sub>a</sub><br>(sf) | EPA <sub>ai</sub><br>(sf) | Wt<br>(lb) | Ice Wt<br>(lb) | F <sub>st</sub><br>(lb) | F <sub>a</sub><br>(lb) | Force<br>(lb) |
| 20                                                 | 326          | 49.75                   | 1.271                             | 4.345                  | 0.00                       | 0.168 | 2.71           | 0.85           | 1.00           | 0.0                     | 3.58                   | 9.70                     | 0.00                      | 647        | 0              | 410                     | 41                     | 451           |
| 19                                                 | 321          | 49.59                   | 1.271                             | 1.272                  | 0.00                       | 0.304 | 2.29           | 0.85           | 1.00           | 0.0                     | 1.86                   | 4.25                     | 0.00                      | 231        | 0              | 179                     | 10                     | 189           |
| 18                                                 | 310          | 49.22                   | 4.177                             | 10.874                 | 0.00                       | 0.180 | 2.67           | 0.85           | 1.00           | 0.0                     | 9.83                   | 26.20                    | 0.00                      | 1673       | 0              | 1096                    | 100                    | 1196          |
| 17                                                 | 290          | 48.54                   | 3.812                             | 10.874                 | 0.00                       | 0.175 | 2.68           | 0.85           | 1.00           | 0.0                     | 9.51                   | 25.50                    | 0.00                      | 1764       | 0              | 1052                    | 419                    | 1471          |
| 16                                                 | 270          | 47.81                   | 4.177                             | 10.874                 | 0.00                       | 0.180 | 2.67           | 0.85           | 1.00           | 0.0                     | 9.83                   | 26.20                    | 0.00                      | 1861       | 0              | 1065                    | 893                    | 1957          |
| 15                                                 | 250          | 47.04                   | 3.812                             | 10.874                 | 0.00                       | 0.175 | 2.68           | 0.85           | 1.00           | 0.0                     | 9.51                   | 25.50                    | 0.00                      | 2085       | 0              | 1020                    | 1857                   | 2877          |
| 14                                                 | 230          | 46.23                   | 4.177                             | 10.874                 | 0.00                       | 0.180 | 2.67           | 0.85           | 1.00           | 0.0                     | 9.83                   | 26.20                    | 0.00                      | 2157       | 0              | 1029                    | 2110                   | 3139          |
| 13                                                 | 210          | 45.35                   | 3.812                             | 10.874                 | 0.00                       | 0.175 | 2.68           | 0.85           | 1.00           | 0.0                     | 9.51                   | 25.50                    | 0.00                      | 2137       | 0              | 983                     | 2070                   | 3053          |
| 12                                                 | 190          | 44.40                   | 13.643                            | 9.167                  | 0.00                       | 0.270 | 2.38           | 0.85           | 1.00           | 0.0                     | 17.01                  | 40.47                    | 0.00                      | 3165       | 0              | 1527                    | 2182                   | 3709          |
| 11                                                 | 170          | 43.38                   | 13.738                            | 9.167                  | 0.00                       | 0.271 | 2.38           | 0.85           | 1.00           | 0.0                     | 17.09                  | 40.61                    | 0.00                      | 3185       | 0              | 1497                    | 2268                   | 3766          |
| 10                                                 | 150          | 42.25                   | 13.643                            | 9.167                  | 0.00                       | 0.270 | 2.38           | 0.85           | 1.00           | 0.0                     | 17.01                  | 40.47                    | 0.00                      | 3210       | 0              | 1453                    | 2372                   | 3825          |
| 9                                                  | 130          | 40.99                   | 3.792                             | 11.695                 | 0.00                       | 0.184 | 2.65           | 0.85           | 1.00           | 0.0                     | 9.99                   | 26.46                    | 0.00                      | 2449       | 0              | 922                     | 2416                   | 3338          |
| 8                                                  | 110          | 39.58                   | 4.160                             | 11.695                 | 0.00                       | 0.188 | 2.64           | 0.85           | 1.00           | 0.0                     | 10.31                  | 27.16                    | 0.00                      | 2469       | 0              | 914                     | 2332                   | 3246          |
| 7                                                  | 90           | 37.94                   | 3.792                             | 11.695                 | 0.00                       | 0.184 | 2.65           | 0.85           | 1.00           | 0.0                     | 9.99                   | 26.46                    | 0.00                      | 2457       | 0              | 853                     | 2276                   | 3129          |
| 6                                                  | 70           | 35.98                   | 3.792                             | 11.695                 | 0.00                       | 0.184 | 2.65           | 0.85           | 1.00           | 0.0                     | 9.99                   | 26.46                    | 0.00                      | 2457       | 0              | 809                     | 2161                   | 2970          |
| 5                                                  | 50           | 33.52                   | 4.160                             | 11.695                 | 0.00                       | 0.188 | 2.64           | 0.85           | 1.00           | 0.0                     | 10.31                  | 27.16                    | 0.00                      | 2477       | 0              | 774                     | 2013                   | 2787          |
| 4                                                  | 30           | 30.11                   | 3.792                             | 11.695                 | 0.00                       | 0.184 | 2.65           | 0.85           | 1.00           | 0.0                     | 9.99                   | 26.46                    | 0.00                      | 2457       | 0              | 677                     | 1808                   | 2485          |
| 3                                                  | 14           | 26.05                   | 1.896                             | 7.021                  | 0.00                       | 0.177 | 2.68           | 0.85           | 1.00           | 0.0                     | 5.66                   | 15.16                    | 0.00                      | 1454       | 0              | 336                     | 939                    | 1274          |
| 2                                                  | 7            | 26.05                   | 1.264                             | 1.353                  | 0.00                       | 0.311 | 2.27           | 0.85           | 1.00           | 0.0                     | 1.91                   | 4.32                     | 0.00                      | 312        | 0              | 96                      | 156                    | 252           |
| 1                                                  | 3            | 26.05                   | 3.625                             | 2.947                  | 0.00                       | 0.491 | 1.91           | 0.85           | 1.00           | 0.0                     | 5.09                   | 9.72                     | 0.00                      | 1058       | 0              | 215                     | 398                    | 613           |
| ** = Section Force Exceeds Solidity Ratio Criteria |              |                         |                                   |                        |                            |       |                |                |                |                         |                        |                          |                           | Totals     | 39,704         | 0                       | 45,727                 |               |

| SECTION FORCES                                     |              |                         |                        |                        |                            |                              |                |                |                |                         |                        |                          |                           |                       |                |                         |                        |               |    |
|----------------------------------------------------|--------------|-------------------------|------------------------|------------------------|----------------------------|------------------------------|----------------|----------------|----------------|-------------------------|------------------------|--------------------------|---------------------------|-----------------------|----------------|-------------------------|------------------------|---------------|----|
| 1.2D + 1.0Di + 1.0Wi Normal                        |              |                         |                        |                        |                            | Gust Response Factor (Gh):   |                | 0.85           |                |                         |                        |                          |                           |                       |                |                         |                        |               |    |
| 30 mph Wind with 0" Radial Ice                     |              |                         |                        |                        |                            | Wind Importance Factor (Iw): |                | 1.00           |                |                         |                        |                          |                           |                       |                |                         |                        |               |    |
|                                                    |              |                         |                        |                        |                            |                              |                |                |                |                         |                        |                          |                           | Ice Dead Load Factor: |                | 1.00                    |                        |               |    |
| Section #                                          | Elev<br>(ft) | Q <sub>Z</sub><br>(psf) | A <sub>r</sub><br>(sf) | A <sub>r</sub><br>(sf) | Ice A <sub>r</sub><br>(sf) | e                            | C <sub>t</sub> | D <sub>t</sub> | D <sub>r</sub> | T <sub>iz</sub><br>(in) | A <sub>e</sub><br>(sf) | EPA <sub>a</sub><br>(sf) | EPA <sub>ai</sub><br>(sf) | Wt<br>(lb)            | Ice Wt<br>(lb) | F <sub>st</sub><br>(lb) | F <sub>a</sub><br>(lb) | Force<br>(lb) |    |
| 20                                                 | 326          | 3.16                    | 1.271                  | 4.345                  | 0.00                       | 0.168                        | 2.71           | 1.00           | 1.00           | 0.0                     | 3.77                   | 10.21                    | 0.00                      | 647                   | 0              | 27                      | 4                      | 31            |    |
| 19                                                 | 321          | 3.15                    | 1.271                  | 1.272                  | 0.00                       | 0.304                        | 2.29           | 1.00           | 1.00           | 0.0                     | 2.05                   | 4.68                     | 0.00                      | 231                   | 0              | 13                      | 1                      | 13            |    |
| 18                                                 | 310          | 3.13                    | 4.177                  | 10.874                 | 0.00                       | 0.180                        | 2.67           | 1.00           | 1.00           | 0.0                     | 10.46                  | 27.87                    | 0.00                      | 1673                  | 0              | 74                      | 9                      | 83            |    |
| 17                                                 | 290          | 3.08                    | 3.812                  | 10.874                 | 0.00                       | 0.175                        | 2.68           | 1.00           | 1.00           | 0.0                     | 10.08                  | 27.03                    | 0.00                      | 1764                  | 0              | 71                      | 37                     | 107           |    |
| 16                                                 | 270          | 3.04                    | 4.177                  | 10.874                 | 0.00                       | 0.180                        | 2.67           | 1.00           | 1.00           | 0.0                     | 10.46                  | 27.87                    | 0.00                      | 1861                  | 0              | 72                      | 78                     | 150           |    |
| 15                                                 | 250          | 2.99                    | 3.812                  | 10.874                 | 0.00                       | 0.175                        | 2.68           | 1.00           | 1.00           | 0.0                     | 10.08                  | 27.03                    | 0.00                      | 2085                  | 0              | 69                      | 144                    | 213           |    |
| 14                                                 | 230          | 2.94                    | 4.177                  | 10.874                 | 0.00                       | 0.180                        | 2.67           | 1.00           | 1.00           | 0.0                     | 10.46                  | 27.87                    | 0.00                      | 2157                  | 0              | 70                      | 164                    | 234           |    |
| 13                                                 | 210          | 2.88                    | 3.812                  | 10.874                 | 0.00                       | 0.175                        | 2.68           | 1.00           | 1.00           | 0.0                     | 10.08                  | 27.03                    | 0.00                      | 2137                  | 0              | 66                      | 162                    | 228           |    |
| 12                                                 | 190          | 2.82                    | 13.643                 | 9.167                  | 0.00                       | 0.270                        | 2.38           | 1.00           | 1.00           | 0.0                     | 19.05                  | 45.34                    | 0.00                      | 3165                  | 0              | 109                     | 158                    | 267           |    |
| 11                                                 | 170          | 2.76                    | 13.738                 | 9.167                  | 0.00                       | 0.271                        | 2.38           | 1.00           | 1.00           | 0.0                     | 19.15                  | 45.51                    | 0.00                      | 3185                  | 0              | 107                     | 165                    | 271           |    |
| 10                                                 | 150          | 2.68                    | 13.643                 | 9.167                  | 0.00                       | 0.270                        | 2.38           | 1.00           | 1.00           | 0.0                     | 19.05                  | 45.34                    | 0.00                      | 3210                  | 0              | 103                     | 173                    | 277           |    |
| 9                                                  | 130          | 2.61                    | 3.792                  | 11.695                 | 0.00                       | 0.184                        | 2.65           | 1.00           | 1.00           | 0.0                     | 10.55                  | 27.97                    | 0.00                      | 2449                  | 0              | 62                      | 192                    | 254           |    |
| 8                                                  | 110          | 2.52                    | 4.160                  | 11.695                 | 0.00                       | 0.188                        | 2.64           | 1.00           | 1.00           | 0.0                     | 10.93                  | 28.80                    | 0.00                      | 2469                  | 0              | 62                      | 185                    | 246           |    |
| 7                                                  | 90           | 2.41                    | 3.792                  | 11.695                 | 0.00                       | 0.184                        | 2.65           | 1.00           | 1.00           | 0.0                     | 10.55                  | 27.97                    | 0.00                      | 2457                  | 0              | 57                      | 181                    | 239           |    |
| 6                                                  | 70           | 2.29                    | 3.792                  | 11.695                 | 0.00                       | 0.184                        | 2.65           | 1.00           | 1.00           | 0.0                     | 10.55                  | 27.97                    | 0.00                      | 2457                  | 0              | 54                      | 172                    | 227           |    |
| 5                                                  | 50           | 2.13                    | 4.160                  | 11.695                 | 0.00                       | 0.188                        | 2.64           | 1.00           | 1.00           | 0.0                     | 10.93                  | 28.80                    | 0.00                      | 2477                  | 0              | 52                      | 160                    | 212           |    |
| 4                                                  | 30           | 1.91                    | 3.792                  | 11.695                 | 0.00                       | 0.184                        | 2.65           | 1.00           | 1.00           | 0.0                     | 10.55                  | 27.97                    | 0.00                      | 2457                  | 0              | 45                      | 144                    | 190           |    |
| 3                                                  | 14           | 1.66                    | 1.896                  | 7.021                  | 0.00                       | 0.177                        | 2.68           | 1.00           | 1.00           | 0.0                     | 5.95                   | 15.92                    | 0.00                      | 1454                  | 0              | 22                      | 75                     | 98            |    |
| 2                                                  | 7            | 1.66                    | 1.264                  | 1.353                  | 0.00                       | 0.311                        | 2.27           | 1.00           | 1.00           | 0.0                     | 2.09                   | 4.75                     | 0.00                      | 312                   | 0              | 7                       | 11                     | 18            |    |
| 1                                                  | 3            | 1.66                    | 3.625                  | 2.947                  | 0.00                       | 0.491                        | 1.91           | 1.00           | 1.00           | 0.0                     | 5.63                   | 10.76                    | 0.00                      | 1058                  | 0              | 15                      | 25                     | 40            |    |
| ** = Section Force Exceeds Solidity Ratio Criteria |              |                         |                        |                        |                            |                              |                |                |                |                         |                        |                          | Totals                    | 39,704                | 0              |                         |                        | 3,396         | ** |

| 1.2D + 1.0Di + 1.0Wi 60°                           |              |                         |                        |                        | Gust Response Factor (Gh):   |       |                |                |                | 0.85                    |                        |                          |                           |            |                       |                         |                        |               |  |      |  |  |  |  |
|----------------------------------------------------|--------------|-------------------------|------------------------|------------------------|------------------------------|-------|----------------|----------------|----------------|-------------------------|------------------------|--------------------------|---------------------------|------------|-----------------------|-------------------------|------------------------|---------------|--|------|--|--|--|--|
| 30 mph Wind with 0" Radial Ice                     |              |                         |                        |                        | Wind Importance Factor (Iw): |       |                |                |                | 1.00                    |                        |                          |                           |            | Ice Dead Load Factor: |                         |                        |               |  | 1.00 |  |  |  |  |
| Section #                                          | Elev<br>(ft) | Q <sub>Z</sub><br>(psf) | A <sub>r</sub><br>(sf) | A <sub>r</sub><br>(sf) | Ice A <sub>r</sub><br>(sf)   | e     | C <sub>i</sub> | D <sub>i</sub> | D <sub>r</sub> | T <sub>iz</sub><br>(in) | A <sub>e</sub><br>(sf) | EPA <sub>a</sub><br>(sf) | EPA <sub>ai</sub><br>(sf) | Wt<br>(lb) | Ice Wt<br>(lb)        | F <sub>st</sub><br>(lb) | F <sub>a</sub><br>(lb) | Force<br>(lb) |  |      |  |  |  |  |
| 20                                                 | 326          | 3.16                    | 1.271                  | 4.345                  | 0.00                         | 0.168 | 2.71           | 0.80           | 1.00           | 0.0                     | 3.52                   | 9.53                     | 0.00                      | 647        | 0                     | 26                      | 4                      | 29            |  |      |  |  |  |  |
| 19                                                 | 321          | 3.15                    | 1.271                  | 1.272                  | 0.00                         | 0.304 | 2.29           | 0.80           | 1.00           | 0.0                     | 1.79                   | 4.10                     | 0.00                      | 231        | 0                     | 11                      | 1                      | 12            |  |      |  |  |  |  |
| 18                                                 | 310          | 3.13                    | 4.177                  | 10.874                 | 0.00                         | 0.180 | 2.67           | 0.80           | 1.00           | 0.0                     | 9.62                   | 25.64                    | 0.00                      | 1673       | 0                     | 68                      | 9                      | 77            |  |      |  |  |  |  |
| 17                                                 | 290          | 3.08                    | 3.812                  | 10.874                 | 0.00                         | 0.175 | 2.68           | 0.80           | 1.00           | 0.0                     | 9.32                   | 24.99                    | 0.00                      | 1764       | 0                     | 66                      | 37                     | 102           |  |      |  |  |  |  |
| 16                                                 | 270          | 3.04                    | 4.177                  | 10.874                 | 0.00                         | 0.180 | 2.67           | 0.80           | 1.00           | 0.0                     | 9.62                   | 25.64                    | 0.00                      | 1861       | 0                     | 66                      | 78                     | 144           |  |      |  |  |  |  |
| 15                                                 | 250          | 2.99                    | 3.812                  | 10.874                 | 0.00                         | 0.175 | 2.68           | 0.80           | 1.00           | 0.0                     | 9.32                   | 24.99                    | 0.00                      | 2085       | 0                     | 63                      | 144                    | 208           |  |      |  |  |  |  |
| 14                                                 | 230          | 2.94                    | 4.177                  | 10.874                 | 0.00                         | 0.180 | 2.67           | 0.80           | 1.00           | 0.0                     | 9.62                   | 25.64                    | 0.00                      | 2157       | 0                     | 64                      | 164                    | 228           |  |      |  |  |  |  |
| 13                                                 | 210          | 2.88                    | 3.812                  | 10.874                 | 0.00                         | 0.175 | 2.68           | 0.80           | 1.00           | 0.0                     | 9.32                   | 24.99                    | 0.00                      | 2137       | 0                     | 61                      | 162                    | 223           |  |      |  |  |  |  |
| 12                                                 | 190          | 2.82                    | 13.643                 | 9.167                  | 0.00                         | 0.270 | 2.38           | 0.80           | 1.00           | 0.0                     | 16.32                  | 38.85                    | 0.00                      | 3165       | 0                     | 93                      | 158                    | 251           |  |      |  |  |  |  |
| 11                                                 | 170          | 2.76                    | 13.738                 | 9.167                  | 0.00                         | 0.271 | 2.38           | 0.80           | 1.00           | 0.0                     | 16.40                  | 38.98                    | 0.00                      | 3185       | 0                     | 91                      | 165                    | 256           |  |      |  |  |  |  |
| 10                                                 | 150          | 2.68                    | 13.643                 | 9.167                  | 0.00                         | 0.270 | 2.38           | 0.80           | 1.00           | 0.0                     | 16.32                  | 38.85                    | 0.00                      | 3210       | 0                     | 89                      | 173                    | 262           |  |      |  |  |  |  |
| 9                                                  | 130          | 2.61                    | 3.792                  | 11.695                 | 0.00                         | 0.184 | 2.65           | 0.80           | 1.00           | 0.0                     | 9.80                   | 25.96                    | 0.00                      | 2449       | 0                     | 57                      | 192                    | 250           |  |      |  |  |  |  |
| 8                                                  | 110          | 2.52                    | 4.160                  | 11.695                 | 0.00                         | 0.188 | 2.64           | 0.80           | 1.00           | 0.0                     | 10.10                  | 26.61                    | 0.00                      | 2469       | 0                     | 57                      | 185                    | 242           |  |      |  |  |  |  |
| 7                                                  | 90           | 2.41                    | 3.792                  | 11.695                 | 0.00                         | 0.184 | 2.65           | 0.80           | 1.00           | 0.0                     | 9.80                   | 25.96                    | 0.00                      | 2457       | 0                     | 53                      | 181                    | 235           |  |      |  |  |  |  |
| 6                                                  | 70           | 2.29                    | 3.792                  | 11.695                 | 0.00                         | 0.184 | 2.65           | 0.80           | 1.00           | 0.0                     | 9.80                   | 25.96                    | 0.00                      | 2457       | 0                     | 50                      | 172                    | 223           |  |      |  |  |  |  |
| 5                                                  | 50           | 2.13                    | 4.160                  | 11.695                 | 0.00                         | 0.188 | 2.64           | 0.80           | 1.00           | 0.0                     | 10.10                  | 26.61                    | 0.00                      | 2477       | 0                     | 48                      | 160                    | 208           |  |      |  |  |  |  |
| 4                                                  | 30           | 1.91                    | 3.792                  | 11.695                 | 0.00                         | 0.184 | 2.65           | 0.80           | 1.00           | 0.0                     | 9.80                   | 25.96                    | 0.00                      | 2457       | 0                     | 42                      | 144                    | 186           |  |      |  |  |  |  |
| 3                                                  | 14           | 1.66                    | 1.896                  | 7.021                  | 0.00                         | 0.177 | 2.68           | 0.80           | 1.00           | 0.0                     | 5.57                   | 14.90                    | 0.00                      | 1454       | 0                     | 21                      | 75                     | 96            |  |      |  |  |  |  |
| 2                                                  | 7            | 1.66                    | 1.264                  | 1.353                  | 0.00                         | 0.311 | 2.27           | 0.80           | 1.00           | 0.0                     | 1.84                   | 4.18                     | 0.00                      | 312        | 0                     | 6                       | 11                     | 17            |  |      |  |  |  |  |
| 1                                                  | 3            | 1.66                    | 3.625                  | 2.947                  | 0.00                         | 0.491 | 1.91           | 0.80           | 1.00           | 0.0                     | 4.91                   | 9.38                     | 0.00                      | 1058       | 0                     | 13                      | 25                     | 38            |  |      |  |  |  |  |
| ** = Section Force Exceeds Solidity Ratio Criteria |              |                         |                        |                        |                              |       |                |                |                |                         |                        |                          |                           | Totals     | 39,704                | 0                       |                        | 3,286         |  |      |  |  |  |  |

| 1.2D + 1.0Di + 1.0Wi 90°                           |              |                         |                        |                        |                            | Gust Response Factor (Gh):   |                |                |                |                         |                        | 0.85                     |                           |            |                |                         |                        |               |  |  |  |  |  |
|----------------------------------------------------|--------------|-------------------------|------------------------|------------------------|----------------------------|------------------------------|----------------|----------------|----------------|-------------------------|------------------------|--------------------------|---------------------------|------------|----------------|-------------------------|------------------------|---------------|--|--|--|--|--|
| 30 mph Wind with 0" Radial Ice                     |              |                         |                        |                        |                            | Wind Importance Factor (Iw): |                |                |                |                         |                        | 1.00                     |                           |            |                |                         |                        |               |  |  |  |  |  |
|                                                    |              |                         |                        |                        |                            |                              |                |                |                |                         |                        | Ice Dead Load Factor:    |                           |            |                |                         |                        | 1.00          |  |  |  |  |  |
| Section #                                          | Elev<br>(ft) | Q <sub>Z</sub><br>(psf) | A <sub>r</sub><br>(sf) | A <sub>r</sub><br>(sf) | Ice A <sub>r</sub><br>(sf) | e                            | C <sub>r</sub> | D <sub>r</sub> | D <sub>r</sub> | T <sub>iz</sub><br>(in) | A <sub>e</sub><br>(sf) | EPA <sub>a</sub><br>(sf) | EPA <sub>ai</sub><br>(sf) | Wt<br>(lb) | Ice Wt<br>(lb) | F <sub>st</sub><br>(lb) | F <sub>a</sub><br>(lb) | Force<br>(lb) |  |  |  |  |  |
| 20                                                 | 326          | 3.16                    | 1.271                  | 4.345                  | 0.00                       | 0.168                        | 2.71           | 0.85           | 1.00           | 0.0                     | 3.58                   | 9.70                     | 0.00                      | 647        | 0              | 26                      | 4                      | 30            |  |  |  |  |  |
| 19                                                 | 321          | 3.15                    | 1.271                  | 1.272                  | 0.00                       | 0.304                        | 2.29           | 0.85           | 1.00           | 0.0                     | 1.86                   | 4.25                     | 0.00                      | 231        | 0              | 11                      | 1                      | 12            |  |  |  |  |  |
| 18                                                 | 310          | 3.13                    | 4.177                  | 10.874                 | 0.00                       | 0.180                        | 2.67           | 0.85           | 1.00           | 0.0                     | 9.83                   | 26.20                    | 0.00                      | 1673       | 0              | 70                      | 9                      | 78            |  |  |  |  |  |
| 17                                                 | 290          | 3.08                    | 3.812                  | 10.874                 | 0.00                       | 0.175                        | 2.68           | 0.85           | 1.00           | 0.0                     | 9.51                   | 25.50                    | 0.00                      | 1764       | 0              | 67                      | 37                     | 103           |  |  |  |  |  |
| 16                                                 | 270          | 3.04                    | 4.177                  | 10.874                 | 0.00                       | 0.180                        | 2.67           | 0.85           | 1.00           | 0.0                     | 9.83                   | 26.20                    | 0.00                      | 1861       | 0              | 68                      | 78                     | 145           |  |  |  |  |  |
| 15                                                 | 250          | 2.99                    | 3.812                  | 10.874                 | 0.00                       | 0.175                        | 2.68           | 0.85           | 1.00           | 0.0                     | 9.51                   | 25.50                    | 0.00                      | 2085       | 0              | 65                      | 144                    | 209           |  |  |  |  |  |
| 14                                                 | 230          | 2.94                    | 4.177                  | 10.874                 | 0.00                       | 0.180                        | 2.67           | 0.85           | 1.00           | 0.0                     | 9.83                   | 26.20                    | 0.00                      | 2157       | 0              | 65                      | 164                    | 230           |  |  |  |  |  |
| 13                                                 | 210          | 2.88                    | 3.812                  | 10.874                 | 0.00                       | 0.175                        | 2.68           | 0.85           | 1.00           | 0.0                     | 9.51                   | 25.50                    | 0.00                      | 2137       | 0              | 62                      | 162                    | 224           |  |  |  |  |  |
| 12                                                 | 190          | 2.82                    | 13.643                 | 9.167                  | 0.00                       | 0.270                        | 2.38           | 0.85           | 1.00           | 0.0                     | 17.01                  | 40.47                    | 0.00                      | 3165       | 0              | 97                      | 158                    | 255           |  |  |  |  |  |
| 11                                                 | 170          | 2.76                    | 13.738                 | 9.167                  | 0.00                       | 0.271                        | 2.38           | 0.85           | 1.00           | 0.0                     | 17.09                  | 40.61                    | 0.00                      | 3185       | 0              | 95                      | 165                    | 260           |  |  |  |  |  |
| 10                                                 | 150          | 2.68                    | 13.643                 | 9.167                  | 0.00                       | 0.270                        | 2.38           | 0.85           | 1.00           | 0.0                     | 17.01                  | 40.47                    | 0.00                      | 3210       | 0              | 92                      | 173                    | 265           |  |  |  |  |  |
| 9                                                  | 130          | 2.61                    | 3.792                  | 11.695                 | 0.00                       | 0.184                        | 2.65           | 0.85           | 1.00           | 0.0                     | 9.99                   | 26.46                    | 0.00                      | 2449       | 0              | 59                      | 192                    | 251           |  |  |  |  |  |
| 8                                                  | 110          | 2.52                    | 4.160                  | 11.695                 | 0.00                       | 0.188                        | 2.64           | 0.85           | 1.00           | 0.0                     | 10.31                  | 27.16                    | 0.00                      | 2469       | 0              | 58                      | 185                    | 243           |  |  |  |  |  |
| 7                                                  | 90           | 2.41                    | 3.792                  | 11.695                 | 0.00                       | 0.184                        | 2.65           | 0.85           | 1.00           | 0.0                     | 9.99                   | 26.46                    | 0.00                      | 2457       | 0              | 54                      | 181                    | 236           |  |  |  |  |  |
| 6                                                  | 70           | 2.29                    | 3.792                  | 11.695                 | 0.00                       | 0.184                        | 2.65           | 0.85           | 1.00           | 0.0                     | 9.99                   | 26.46                    | 0.00                      | 2457       | 0              | 51                      | 172                    | 224           |  |  |  |  |  |
| 5                                                  | 50           | 2.13                    | 4.160                  | 11.695                 | 0.00                       | 0.188                        | 2.64           | 0.85           | 1.00           | 0.0                     | 10.31                  | 27.16                    | 0.00                      | 2477       | 0              | 49                      | 160                    | 209           |  |  |  |  |  |
| 4                                                  | 30           | 1.91                    | 3.792                  | 11.695                 | 0.00                       | 0.184                        | 2.65           | 0.85           | 1.00           | 0.0                     | 9.99                   | 26.46                    | 0.00                      | 2457       | 0              | 43                      | 144                    | 187           |  |  |  |  |  |
| 3                                                  | 14           | 1.66                    | 1.896                  | 7.021                  | 0.00                       | 0.177                        | 2.68           | 0.85           | 1.00           | 0.0                     | 5.66                   | 15.16                    | 0.00                      | 1454       | 0              | 21                      | 75                     | 97            |  |  |  |  |  |
| 2                                                  | 7            | 1.66                    | 1.264                  | 1.353                  | 0.00                       | 0.311                        | 2.27           | 0.85           | 1.00           | 0.0                     | 1.91                   | 4.32                     | 0.00                      | 312        | 0              | 6                       | 11                     | 17            |  |  |  |  |  |
| 1                                                  | 3            | 1.66                    | 3.625                  | 2.947                  | 0.00                       | 0.491                        | 1.91           | 0.85           | 1.00           | 0.0                     | 5.09                   | 9.72                     | 0.00                      | 1058       | 0              | 14                      | 25                     | 39            |  |  |  |  |  |
| ** = Section Force Exceeds Solidity Ratio Criteria |              |                         |                        |                        |                            |                              |                |                |                |                         |                        |                          |                           | Totals     | 39,704         | 0                       | 3,314                  |               |  |  |  |  |  |

ASSET: 2543, Five Points  
CUSTOMER: T-MOBILE

CODE: ANSI/TIA-222-H  
PROJECT: 14910189\_C3\_03

| SECTION FORCES                                     |              |                         |                        |                        |                            |                              |                |                |                |                         |                        |                          |                           |            |                |                         |                        |               |  |
|----------------------------------------------------|--------------|-------------------------|------------------------|------------------------|----------------------------|------------------------------|----------------|----------------|----------------|-------------------------|------------------------|--------------------------|---------------------------|------------|----------------|-------------------------|------------------------|---------------|--|
| 1.2D + 1.0Di + 1.0Wi 120°                          |              |                         |                        |                        |                            | Gust Response Factor (Gh):   |                | 0.85           |                |                         |                        |                          |                           |            |                |                         |                        |               |  |
| 30 mph Wind with 0" Radial Ice                     |              |                         |                        |                        |                            | Wind Importance Factor (Iw): |                | 1.00           |                | Ice Dead Load Factor:   |                        |                          |                           |            |                | 1.00                    |                        |               |  |
| Section #                                          | Elev<br>(ft) | Q <sub>Z</sub><br>(psf) | A <sub>r</sub><br>(sf) | A <sub>r</sub><br>(sf) | Ice A <sub>r</sub><br>(sf) | e                            | C <sub>t</sub> | D <sub>t</sub> | D <sub>r</sub> | T <sub>iz</sub><br>(in) | A <sub>e</sub><br>(sf) | EPA <sub>a</sub><br>(sf) | EPA <sub>ai</sub><br>(sf) | Wt<br>(lb) | Ice Wt<br>(lb) | F <sub>st</sub><br>(lb) | F <sub>a</sub><br>(lb) | Force<br>(lb) |  |
| 20                                                 | 326          | 3.16                    | 1.271                  | 4.345                  | 0.00                       | 0.168                        | 2.71           | 1.00           | 1.00           | 0.0                     | 3.77                   | 10.21                    | 0.00                      | 647        | 0              | 27                      | 4                      | 31            |  |
| 19                                                 | 321          | 3.15                    | 1.271                  | 1.272                  | 0.00                       | 0.304                        | 2.29           | 1.00           | 1.00           | 0.0                     | 2.05                   | 4.68                     | 0.00                      | 231        | 0              | 13                      | 1                      | 13            |  |
| 18                                                 | 310          | 3.13                    | 4.177                  | 10.874                 | 0.00                       | 0.180                        | 2.67           | 1.00           | 1.00           | 0.0                     | 10.46                  | 27.87                    | 0.00                      | 1673       | 0              | 74                      | 9                      | 83            |  |
| 17                                                 | 290          | 3.08                    | 3.812                  | 10.874                 | 0.00                       | 0.175                        | 2.68           | 1.00           | 1.00           | 0.0                     | 10.08                  | 27.03                    | 0.00                      | 1764       | 0              | 71                      | 37                     | 107           |  |
| 16                                                 | 270          | 3.04                    | 4.177                  | 10.874                 | 0.00                       | 0.180                        | 2.67           | 1.00           | 1.00           | 0.0                     | 10.46                  | 27.87                    | 0.00                      | 1861       | 0              | 72                      | 78                     | 150           |  |
| 15                                                 | 250          | 2.99                    | 3.812                  | 10.874                 | 0.00                       | 0.175                        | 2.68           | 1.00           | 1.00           | 0.0                     | 10.08                  | 27.03                    | 0.00                      | 2085       | 0              | 69                      | 144                    | 213           |  |
| 14                                                 | 230          | 2.94                    | 4.177                  | 10.874                 | 0.00                       | 0.180                        | 2.67           | 1.00           | 1.00           | 0.0                     | 10.46                  | 27.87                    | 0.00                      | 2157       | 0              | 70                      | 164                    | 234           |  |
| 13                                                 | 210          | 2.88                    | 3.812                  | 10.874                 | 0.00                       | 0.175                        | 2.68           | 1.00           | 1.00           | 0.0                     | 10.08                  | 27.03                    | 0.00                      | 2137       | 0              | 66                      | 162                    | 228           |  |
| 12                                                 | 190          | 2.82                    | 13.643                 | 9.167                  | 0.00                       | 0.270                        | 2.38           | 1.00           | 1.00           | 0.0                     | 19.05                  | 45.34                    | 0.00                      | 3165       | 0              | 109                     | 158                    | 267           |  |
| 11                                                 | 170          | 2.76                    | 13.738                 | 9.167                  | 0.00                       | 0.271                        | 2.38           | 1.00           | 1.00           | 0.0                     | 19.15                  | 45.51                    | 0.00                      | 3185       | 0              | 107                     | 165                    | 271           |  |
| 10                                                 | 150          | 2.68                    | 13.643                 | 9.167                  | 0.00                       | 0.270                        | 2.38           | 1.00           | 1.00           | 0.0                     | 19.05                  | 45.34                    | 0.00                      | 3210       | 0              | 103                     | 173                    | 277           |  |
| 9                                                  | 130          | 2.61                    | 3.792                  | 11.695                 | 0.00                       | 0.184                        | 2.65           | 1.00           | 1.00           | 0.0                     | 10.55                  | 27.97                    | 0.00                      | 2449       | 0              | 62                      | 192                    | 254           |  |
| 8                                                  | 110          | 2.52                    | 4.160                  | 11.695                 | 0.00                       | 0.188                        | 2.64           | 1.00           | 1.00           | 0.0                     | 10.93                  | 28.80                    | 0.00                      | 2469       | 0              | 62                      | 185                    | 246           |  |
| 7                                                  | 90           | 2.41                    | 3.792                  | 11.695                 | 0.00                       | 0.184                        | 2.65           | 1.00           | 1.00           | 0.0                     | 10.55                  | 27.97                    | 0.00                      | 2457       | 0              | 57                      | 181                    | 239           |  |
| 6                                                  | 70           | 2.29                    | 3.792                  | 11.695                 | 0.00                       | 0.184                        | 2.65           | 1.00           | 1.00           | 0.0                     | 10.55                  | 27.97                    | 0.00                      | 2457       | 0              | 54                      | 172                    | 227           |  |
| 5                                                  | 50           | 2.13                    | 4.160                  | 11.695                 | 0.00                       | 0.188                        | 2.64           | 1.00           | 1.00           | 0.0                     | 10.93                  | 28.80                    | 0.00                      | 2477       | 0              | 52                      | 160                    | 212           |  |
| 4                                                  | 30           | 1.91                    | 3.792                  | 11.695                 | 0.00                       | 0.184                        | 2.65           | 1.00           | 1.00           | 0.0                     | 10.55                  | 27.97                    | 0.00                      | 2457       | 0              | 45                      | 144                    | 190           |  |
| 3                                                  | 14           | 1.66                    | 1.896                  | 7.021                  | 0.00                       | 0.177                        | 2.68           | 1.00           | 1.00           | 0.0                     | 5.95                   | 15.92                    | 0.00                      | 1454       | 0              | 22                      | 75                     | 98            |  |
| 2                                                  | 7            | 1.66                    | 1.264                  | 1.353                  | 0.00                       | 0.311                        | 2.27           | 1.00           | 1.00           | 0.0                     | 2.09                   | 4.75                     | 0.00                      | 312        | 0              | 7                       | 11                     | 18            |  |
| 1                                                  | 3            | 1.66                    | 3.625                  | 2.947                  | 0.00                       | 0.491                        | 1.91           | 1.00           | 1.00           | 0.0                     | 5.63                   | 10.76                    | 0.00                      | 1058       | 0              | 15                      | 25                     | 40            |  |
| ** = Section Force Exceeds Solidity Ratio Criteria |              |                         |                        |                        |                            |                              |                |                |                |                         |                        |                          |                           | Totals     | 39,704         | 0                       |                        | 3,396         |  |
| 1.2D + 1.0Di + 1.0Wi 180°                          |              |                         |                        |                        |                            |                              |                |                |                |                         |                        |                          |                           |            |                |                         |                        |               |  |
| 30 mph Wind with 0" Radial Ice                     |              |                         |                        |                        |                            | Gust Response Factor (Gh):   |                | 0.85           |                |                         |                        |                          |                           |            |                |                         |                        |               |  |
|                                                    |              |                         |                        |                        |                            | Wind Importance Factor (Iw): |                | 1.00           |                | Ice Dead Load Factor:   |                        |                          |                           |            |                | 1.00                    |                        |               |  |
| Section #                                          | Elev<br>(ft) | Q <sub>Z</sub><br>(psf) | A <sub>r</sub><br>(sf) | A <sub>r</sub><br>(sf) | Ice A <sub>r</sub><br>(sf) | e                            | C <sub>t</sub> | D <sub>t</sub> | D <sub>r</sub> | T <sub>iz</sub><br>(in) | A <sub>e</sub><br>(sf) | EPA <sub>a</sub><br>(sf) | EPA <sub>ai</sub><br>(sf) | Wt<br>(lb) | Ice Wt<br>(lb) | F <sub>st</sub><br>(lb) | F <sub>a</sub><br>(lb) | Force<br>(lb) |  |
| 20                                                 | 326          | 3.16                    | 1.271                  | 4.345                  | 0.00                       | 0.168                        | 2.71           | 0.80           | 1.00           | 0.0                     | 3.52                   | 9.53                     | 0.00                      | 647        | 0              | 26                      | 4                      | 29            |  |
| 19                                                 | 321          | 3.15                    | 1.271                  | 1.272                  | 0.00                       | 0.304                        | 2.29           | 0.80           | 1.00           | 0.0                     | 1.79                   | 4.10                     | 0.00                      | 231        | 0              | 11                      | 1                      | 12            |  |
| 18                                                 | 310          | 3.13                    | 4.177                  | 10.874                 | 0.00                       | 0.180                        | 2.67           | 0.80           | 1.00           | 0.0                     | 9.62                   | 25.64                    | 0.00                      | 1673       | 0              | 68                      | 9                      | 77            |  |
| 17                                                 | 290          | 3.08                    | 3.812                  | 10.874                 | 0.00                       | 0.175                        | 2.68           | 0.80           | 1.00           | 0.0                     | 9.32                   | 24.99                    | 0.00                      | 1764       | 0              | 66                      | 37                     | 102           |  |
| 16                                                 | 270          | 3.04                    | 4.177                  | 10.874                 | 0.00                       | 0.180                        | 2.67           | 0.80           | 1.00           | 0.0                     | 9.62                   | 25.64                    | 0.00                      | 1861       | 0              | 66                      | 78                     | 144           |  |
| 15                                                 | 250          | 2.99                    | 3.812                  | 10.874                 | 0.00                       | 0.175                        | 2.68           | 0.80           | 1.00           | 0.0                     | 9.32                   | 24.99                    | 0.00                      | 2085       | 0              | 63                      | 144                    | 208           |  |
| 14                                                 | 230          | 2.94                    | 4.177                  | 10.874                 | 0.00                       | 0.180                        | 2.67           | 0.80           | 1.00           | 0.0                     | 9.62                   | 25.64                    | 0.00                      | 2157       | 0              | 64                      | 164                    | 228           |  |
| 13                                                 | 210          | 2.88                    | 3.812                  | 10.874                 | 0.00                       | 0.175                        | 2.68           | 0.80           | 1.00           | 0.0                     | 9.32                   | 24.99                    | 0.00                      | 2137       | 0              | 61                      | 162                    | 223           |  |
| 12                                                 | 190          | 2.82                    | 13.643                 | 9.167                  | 0.00                       | 0.270                        | 2.38           | 0.80           | 1.00           | 0.0                     | 16.32                  | 38.85                    | 0.00                      | 3165       | 0              | 93                      | 158                    | 251           |  |
| 11                                                 | 170          | 2.76                    | 13.738                 | 9.167                  | 0.00                       | 0.271                        | 2.38           | 0.80           | 1.00           | 0.0                     | 16.40                  | 38.98                    | 0.00                      | 3185       | 0              | 91                      | 165                    | 256           |  |
| 10                                                 | 150          | 2.68                    | 13.643                 | 9.167                  | 0.00                       | 0.270                        | 2.38           | 0.80           | 1.00           | 0.0                     | 16.32                  | 38.85                    | 0.00                      | 3210       | 0              | 89                      | 173                    | 262           |  |
| 9                                                  | 130          | 2.61                    | 3.792                  | 11.695                 | 0.00                       | 0.184                        | 2.65           | 0.80           | 1.00           | 0.0                     | 9.80                   | 25.96                    | 0.00                      | 2449       | 0              | 57                      | 192                    | 250           |  |
| 8                                                  | 110          | 2.52                    | 4.160                  | 11.695                 | 0.00                       | 0.188                        | 2.64           | 0.80           | 1.00           | 0.0                     | 10.10                  | 26.61                    | 0.00                      | 2469       | 0              | 57                      | 185                    | 242           |  |
| 7                                                  | 90           | 2.41                    | 3.792                  | 11.695                 | 0.00                       | 0.184                        | 2.65           | 0.80           | 1.00           | 0.0                     | 9.80                   | 25.96                    | 0.00                      | 2457       | 0              | 53                      | 181                    | 235           |  |
| 6                                                  | 70           | 2.29                    | 3.792                  | 11.695                 | 0.00                       | 0.184                        | 2.65           | 0.80           | 1.00           | 0.0                     | 9.80                   | 25.96                    | 0.00                      | 2457       | 0              | 50                      | 172                    | 223           |  |
| 5                                                  | 50           | 2.13                    | 4.160                  | 11.695                 | 0.00                       | 0.188                        | 2.64           | 0.80           | 1.00           | 0.0                     | 10.10                  | 26.61                    | 0.00                      | 2477       | 0              | 48                      | 160                    | 208           |  |
| 4                                                  | 30           | 1.91                    | 3.792                  | 11.695                 | 0.00                       | 0.184                        | 2.65           | 0.80           | 1.00           | 0.0                     | 9.80                   | 25.96                    | 0.00                      | 2457       | 0              | 42                      | 144                    | 186           |  |
| 3                                                  | 14           | 1.66                    | 1.896                  | 7.021                  | 0.00                       | 0.177                        | 2.68           | 0.80           | 1.00           | 0.0                     | 5.57                   | 14.90                    | 0.00                      | 1454       | 0              | 21                      | 75                     | 96            |  |
| 2                                                  | 7            | 1.66                    | 1.264                  | 1.353                  | 0.00                       | 0.311                        | 2.27           | 0.80           | 1.00           | 0.0                     | 1.84                   | 4.18                     | 0.00                      | 312        | 0              | 6                       | 11                     | 17            |  |
| 1                                                  | 3            | 1.66                    | 3.625                  | 2.947                  | 0.00                       | 0.491                        | 1.91           | 0.80           | 1.00           | 0.0                     | 4.91                   | 9.38                     | 0.00                      | 1058       | 0              | 13                      | 25                     | 38            |  |
| ** = Section Force Exceeds Solidity Ratio Criteria |              |                         |                        |                        |                            |                              |                |                |                |                         |                        |                          |                           | Totals     | 39,704         | 0                       |                        | 3,286         |  |
| 1.2D + 1.0Di + 1.0Wi 210°                          |              |                         |                        |                        |                            |                              |                |                |                |                         |                        |                          |                           |            |                |                         |                        |               |  |
| 30 mph Wind with 0" Radial Ice                     |              |                         |                        |                        |                            | Gust Response Factor (Gh):   |                | 0.85           |                |                         |                        |                          |                           |            |                |                         |                        |               |  |
|                                                    |              |                         |                        |                        |                            | Wind Importance Factor (Iw): |                | 1.00           |                | Ice Dead Load Factor:   |                        |                          |                           |            |                | 1.00                    |                        |               |  |
| Section #                                          | Elev<br>(ft) | Q <sub>Z</sub><br>(psf) | A <sub>r</sub><br>(sf) | A <sub>r</sub><br>(sf) | Ice A <sub>r</sub><br>(sf) | e                            | C <sub>t</sub> | D <sub>t</sub> | D <sub>r</sub> | T <sub>iz</sub><br>(in) | A <sub>e</sub><br>(sf) | EPA <sub>a</sub><br>(sf) | EPA <sub>ai</sub><br>(sf) | Wt<br>(lb) | Ice Wt<br>(lb) | F <sub>st</sub><br>(lb) | F <sub>a</sub><br>(lb) | Force<br>(lb) |  |
| 20                                                 | 326          | 3.16                    | 1.271                  | 4.345                  | 0.00                       | 0.168                        | 2.71           | 0.85           | 1.00           | 0.0                     | 3.58                   | 9.70                     | 0.00                      | 647        | 0              | 26                      | 4                      | 30            |  |
| 19                                                 | 321          | 3.15                    | 1.271                  | 1.272                  | 0.00                       | 0.304                        | 2.29           | 0.85           | 1.00           | 0.0                     | 1.86                   | 4.25                     | 0.00                      | 231        | 0              | 11                      | 1                      | 12            |  |
| 18                                                 | 310          | 3.13                    | 4.177                  | 10.874                 | 0.00                       | 0.180                        | 2.67           | 0.85           | 1.00           | 0.0                     | 9.83                   | 26.20                    | 0.00                      | 1673       | 0              | 70                      | 9                      | 78            |  |
| 17                                                 | 290          | 3.08                    | 3.812                  | 10.874                 | 0.00                       | 0.175                        | 2.68           | 0.85           | 1.00           | 0.0                     | 9.51                   | 25.50                    | 0.00                      | 1764       | 0              | 67                      | 37                     | 103           |  |
| 16                                                 | 270          | 3.04                    | 4.177                  | 10.874                 | 0.00                       | 0.180                        | 2.67           | 0.85           | 1.00           | 0.0                     | 9.83                   | 26.20                    | 0.00                      | 1861       | 0              | 68                      | 78                     | 145           |  |
| 15                                                 | 250          | 2.99                    | 3.812                  | 10.874                 | 0.00                       | 0.175                        | 2.68           | 0.85           | 1.00           | 0.0                     | 9.51                   | 25.50                    | 0.00                      | 2085       | 0              | 65                      | 144                    | 209           |  |
| 14                                                 | 230          | 2.94                    | 4.177                  | 10.874                 | 0.00                       | 0.180                        | 2.67           | 0.85           | 1.00           | 0.0                     | 9.83                   | 26.20                    | 0.00                      | 2157       | 0              | 65                      | 164                    | 230           |  |
| 13                                                 | 210          | 2.88                    | 3.812                  | 10.874                 | 0.00                       | 0.175                        | 2.68           | 0.85           | 1.00           | 0.0                     | 9.51                   | 25.50                    | 0.00                      | 2137       | 0              | 62                      | 162                    | 224           |  |
| 12                                                 | 190          | 2.82                    | 13.643                 | 9.167                  | 0.00                       | 0.270                        | 2.38           | 0.85           | 1.00           | 0.0                     | 17.01                  | 40.47                    | 0.00                      | 3165       | 0              | 97                      | 158                    | 255           |  |
| 11                                                 | 170          | 2.76                    | 13.738                 | 9.167                  | 0.00                       | 0.271                        | 2.38           | 0.85           | 1.00           | 0.0                     | 17.09                  | 40.61                    | 0.00                      | 3185       | 0              | 95                      | 165                    | 260           |  |
| 10                                                 | 150          | 2.68                    | 13.643                 | 9.167                  | 0.00                       | 0.270                        | 2.38           | 0.85           | 1.00           | 0.0                     | 17.01                  | 40.47                    | 0.00                      | 3210       | 0              | 92                      | 173                    | 265           |  |
| 9                                                  | 130          | 2.61                    | 3.792                  | 11.695                 | 0.00                       | 0.184                        | 2.65           | 0.85           | 1.00           | 0.0                     | 9.99                   | 26.46                    | 0.00                      | 2449       | 0              | 59                      | 192                    | 251           |  |
| 8                                                  | 110          | 2.52                    | 4.160                  | 11.695                 | 0.00                       | 0.188                        | 2.64           | 0.85           | 1.00           | 0.0                     | 10.31                  | 27.16                    | 0.00                      | 2469       | 0              | 58                      | 185                    | 243           |  |
| 7                                                  | 90           | 2.41                    | 3.792                  | 11.695                 | 0.00                       | 0.184                        | 2.65           | 0.85           | 1.00           | 0.0                     | 9.99                   | 26.46                    | 0.00                      | 2457       | 0              | 54                      | 181                    | 236           |  |
| 6                                                  | 70           | 2.29                    | 3.792                  | 11.695                 | 0.00                       | 0.184                        | 2.65           | 0.85           | 1.00           | 0.0                     | 9.99                   | 26.46                    | 0.00                      | 2457       | 0              | 51                      | 172                    | 224           |  |
| 5                                                  | 50           | 2.13                    | 4.160                  | 11.695                 | 0.00                       | 0.188                        | 2.64           | 0.85           | 1.00           | 0.0                     | 10.31                  | 27.16                    | 0.00                      | 2477       | 0              | 49                      | 160                    | 209           |  |
| 4                                                  | 30           | 1.91                    | 3.792                  | 11.695                 | 0.00                       | 0.184</                      |                |                |                |                         |                        |                          |                           |            |                |                         |                        |               |  |

| SECTION FORCES                                     |              |                                   |                        |                        |                            |       |                |                |                |                         |                        |                          |                           |            |                |                         |                        |               |    |
|----------------------------------------------------|--------------|-----------------------------------|------------------------|------------------------|----------------------------|-------|----------------|----------------|----------------|-------------------------|------------------------|--------------------------|---------------------------|------------|----------------|-------------------------|------------------------|---------------|----|
| 1.2D + 1.0Di + 1.0Wi 240°                          |              | Gust Response Factor (Gh): 0.85   |                        |                        |                            |       |                |                |                |                         |                        |                          |                           |            |                |                         |                        |               |    |
| 30 mph Wind with 0" Radial Ice                     |              | Wind Importance Factor (Iw): 1.00 |                        |                        |                            |       |                |                |                |                         |                        |                          |                           |            |                |                         |                        |               |    |
|                                                    |              | Ice Dead Load Factor: 1.00        |                        |                        |                            |       |                |                |                |                         |                        |                          |                           |            |                |                         |                        |               |    |
| Section #                                          | Elev<br>(ft) | Q <sub>Z</sub><br>(psf)           | A <sub>r</sub><br>(sf) | A <sub>r</sub><br>(sf) | Ice A <sub>r</sub><br>(sf) | e     | C <sub>t</sub> | D <sub>t</sub> | D <sub>r</sub> | T <sub>iz</sub><br>(in) | A <sub>e</sub><br>(sf) | EPA <sub>a</sub><br>(sf) | EPA <sub>ai</sub><br>(sf) | Wt<br>(lb) | Ice Wt<br>(lb) | F <sub>st</sub><br>(lb) | F <sub>a</sub><br>(lb) | Force<br>(lb) |    |
| 20                                                 | 326          | 3.16                              | 1.271                  | 4.345                  | 0.00                       | 0.168 | 2.71           | 1.00           | 1.00           | 0.0                     | 3.77                   | 10.21                    | 0.00                      | 647        | 0              | 27                      | 4                      | 31            |    |
| 19                                                 | 321          | 3.15                              | 1.271                  | 1.272                  | 0.00                       | 0.304 | 2.29           | 1.00           | 1.00           | 0.0                     | 2.05                   | 4.68                     | 0.00                      | 231        | 0              | 13                      | 1                      | 13            |    |
| 18                                                 | 310          | 3.13                              | 4.177                  | 10.874                 | 0.00                       | 0.180 | 2.67           | 1.00           | 1.00           | 0.0                     | 10.46                  | 27.87                    | 0.00                      | 1673       | 0              | 74                      | 9                      | 83            |    |
| 17                                                 | 290          | 3.08                              | 3.812                  | 10.874                 | 0.00                       | 0.175 | 2.68           | 1.00           | 1.00           | 0.0                     | 10.08                  | 27.03                    | 0.00                      | 1764       | 0              | 71                      | 37                     | 107           |    |
| 16                                                 | 270          | 3.04                              | 4.177                  | 10.874                 | 0.00                       | 0.180 | 2.67           | 1.00           | 1.00           | 0.0                     | 10.46                  | 27.87                    | 0.00                      | 1861       | 0              | 72                      | 78                     | 150           |    |
| 15                                                 | 250          | 2.99                              | 3.812                  | 10.874                 | 0.00                       | 0.175 | 2.68           | 1.00           | 1.00           | 0.0                     | 10.08                  | 27.03                    | 0.00                      | 2085       | 0              | 69                      | 144                    | 213           |    |
| 14                                                 | 230          | 2.94                              | 4.177                  | 10.874                 | 0.00                       | 0.180 | 2.67           | 1.00           | 1.00           | 0.0                     | 10.46                  | 27.87                    | 0.00                      | 2157       | 0              | 70                      | 164                    | 234           |    |
| 13                                                 | 210          | 2.88                              | 3.812                  | 10.874                 | 0.00                       | 0.175 | 2.68           | 1.00           | 1.00           | 0.0                     | 10.08                  | 27.03                    | 0.00                      | 2137       | 0              | 66                      | 162                    | 228           |    |
| 12                                                 | 190          | 2.82                              | 13.643                 | 9.167                  | 0.00                       | 0.270 | 2.38           | 1.00           | 1.00           | 0.0                     | 19.05                  | 45.34                    | 0.00                      | 3165       | 0              | 109                     | 158                    | 267           |    |
| 11                                                 | 170          | 2.76                              | 13.738                 | 9.167                  | 0.00                       | 0.271 | 2.38           | 1.00           | 1.00           | 0.0                     | 19.15                  | 45.51                    | 0.00                      | 3185       | 0              | 107                     | 165                    | 271           |    |
| 10                                                 | 150          | 2.68                              | 13.643                 | 9.167                  | 0.00                       | 0.270 | 2.38           | 1.00           | 1.00           | 0.0                     | 19.05                  | 45.34                    | 0.00                      | 3210       | 0              | 103                     | 173                    | 277           |    |
| 9                                                  | 130          | 2.61                              | 3.792                  | 11.695                 | 0.00                       | 0.184 | 2.65           | 1.00           | 1.00           | 0.0                     | 10.55                  | 27.97                    | 0.00                      | 2449       | 0              | 62                      | 192                    | 254           |    |
| 8                                                  | 110          | 2.52                              | 4.160                  | 11.695                 | 0.00                       | 0.188 | 2.64           | 1.00           | 1.00           | 0.0                     | 10.93                  | 28.80                    | 0.00                      | 2469       | 0              | 62                      | 185                    | 246           |    |
| 7                                                  | 90           | 2.41                              | 3.792                  | 11.695                 | 0.00                       | 0.184 | 2.65           | 1.00           | 1.00           | 0.0                     | 10.55                  | 27.97                    | 0.00                      | 2457       | 0              | 57                      | 181                    | 239           |    |
| 6                                                  | 70           | 2.29                              | 3.792                  | 11.695                 | 0.00                       | 0.184 | 2.65           | 1.00           | 1.00           | 0.0                     | 10.55                  | 27.97                    | 0.00                      | 2457       | 0              | 54                      | 172                    | 227           |    |
| 5                                                  | 50           | 2.13                              | 4.160                  | 11.695                 | 0.00                       | 0.188 | 2.64           | 1.00           | 1.00           | 0.0                     | 10.93                  | 28.80                    | 0.00                      | 2477       | 0              | 52                      | 160                    | 212           |    |
| 4                                                  | 30           | 1.91                              | 3.792                  | 11.695                 | 0.00                       | 0.184 | 2.65           | 1.00           | 1.00           | 0.0                     | 10.55                  | 27.97                    | 0.00                      | 2457       | 0              | 45                      | 144                    | 190           |    |
| 3                                                  | 14           | 1.66                              | 1.896                  | 7.021                  | 0.00                       | 0.177 | 2.68           | 1.00           | 1.00           | 0.0                     | 5.95                   | 15.92                    | 0.00                      | 1454       | 0              | 22                      | 75                     | 98            |    |
| 2                                                  | 7            | 1.66                              | 1.264                  | 1.353                  | 0.00                       | 0.311 | 2.27           | 1.00           | 1.00           | 0.0                     | 2.09                   | 4.75                     | 0.00                      | 312        | 0              | 7                       | 11                     | 18            |    |
| 1                                                  | 3            | 1.66                              | 3.625                  | 2.947                  | 0.00                       | 0.491 | 1.91           | 1.00           | 1.00           | 0.0                     | 5.63                   | 10.76                    | 0.00                      | 1058       | 0              | 15                      | 25                     | 40            |    |
| ** = Section Force Exceeds Solidity Ratio Criteria |              |                                   |                        |                        |                            |       |                |                |                |                         |                        |                          | Totals                    | 39,704     | 0              |                         |                        | 3,396         | ** |

| 1.2D + 1.0Di + 1.0Wi 300°                          |              |                         |                        |                        | Gust Response Factor (Gh): 0.85   |       |                |                |                |                         |                        |                          |                           |            |                            |                         |                        |               |  |
|----------------------------------------------------|--------------|-------------------------|------------------------|------------------------|-----------------------------------|-------|----------------|----------------|----------------|-------------------------|------------------------|--------------------------|---------------------------|------------|----------------------------|-------------------------|------------------------|---------------|--|
| 30 mph Wind with 0" Radial Ice                     |              |                         |                        |                        | Wind Importance Factor (Iw): 1.00 |       |                |                |                |                         |                        |                          |                           |            | Ice Dead Load Factor: 1.00 |                         |                        |               |  |
| Section #                                          | Elev<br>(ft) | Q <sub>Z</sub><br>(psf) | A <sub>r</sub><br>(sf) | A <sub>r</sub><br>(sf) | Ice A <sub>r</sub><br>(sf)        | e     | C <sub>i</sub> | D <sub>i</sub> | D <sub>r</sub> | T <sub>iz</sub><br>(in) | A <sub>e</sub><br>(sf) | EPA <sub>a</sub><br>(sf) | EPA <sub>ai</sub><br>(sf) | Wt<br>(lb) | Ice Wt<br>(lb)             | F <sub>st</sub><br>(lb) | F <sub>a</sub><br>(lb) | Force<br>(lb) |  |
| 20                                                 | 326          | 3.16                    | 1.271                  | 4.345                  | 0.00                              | 0.168 | 2.71           | 0.80           | 1.00           | 0.0                     | 3.52                   | 9.53                     | 0.00                      | 647        | 0                          | 26                      | 4                      | 29            |  |
| 19                                                 | 321          | 3.15                    | 1.271                  | 1.272                  | 0.00                              | 0.304 | 2.29           | 0.80           | 1.00           | 0.0                     | 1.79                   | 4.10                     | 0.00                      | 231        | 0                          | 11                      | 1                      | 12            |  |
| 18                                                 | 310          | 3.13                    | 4.177                  | 10.874                 | 0.00                              | 0.180 | 2.67           | 0.80           | 1.00           | 0.0                     | 9.62                   | 25.64                    | 0.00                      | 1673       | 0                          | 68                      | 9                      | 77            |  |
| 17                                                 | 290          | 3.08                    | 3.812                  | 10.874                 | 0.00                              | 0.175 | 2.68           | 0.80           | 1.00           | 0.0                     | 9.32                   | 24.99                    | 0.00                      | 1764       | 0                          | 66                      | 37                     | 102           |  |
| 16                                                 | 270          | 3.04                    | 4.177                  | 10.874                 | 0.00                              | 0.180 | 2.67           | 0.80           | 1.00           | 0.0                     | 9.62                   | 25.64                    | 0.00                      | 1861       | 0                          | 66                      | 78                     | 144           |  |
| 15                                                 | 250          | 2.99                    | 3.812                  | 10.874                 | 0.00                              | 0.175 | 2.68           | 0.80           | 1.00           | 0.0                     | 9.32                   | 24.99                    | 0.00                      | 2085       | 0                          | 63                      | 144                    | 208           |  |
| 14                                                 | 230          | 2.94                    | 4.177                  | 10.874                 | 0.00                              | 0.180 | 2.67           | 0.80           | 1.00           | 0.0                     | 9.62                   | 25.64                    | 0.00                      | 2157       | 0                          | 64                      | 164                    | 228           |  |
| 13                                                 | 210          | 2.88                    | 3.812                  | 10.874                 | 0.00                              | 0.175 | 2.68           | 0.80           | 1.00           | 0.0                     | 9.32                   | 24.99                    | 0.00                      | 2137       | 0                          | 61                      | 162                    | 223           |  |
| 12                                                 | 190          | 2.82                    | 13.643                 | 9.167                  | 0.00                              | 0.270 | 2.38           | 0.80           | 1.00           | 0.0                     | 16.32                  | 38.85                    | 0.00                      | 3165       | 0                          | 93                      | 158                    | 251           |  |
| 11                                                 | 170          | 2.76                    | 13.738                 | 9.167                  | 0.00                              | 0.271 | 2.38           | 0.80           | 1.00           | 0.0                     | 16.40                  | 38.98                    | 0.00                      | 3185       | 0                          | 91                      | 165                    | 256           |  |
| 10                                                 | 150          | 2.68                    | 13.643                 | 9.167                  | 0.00                              | 0.270 | 2.38           | 0.80           | 1.00           | 0.0                     | 16.32                  | 38.85                    | 0.00                      | 3210       | 0                          | 89                      | 173                    | 262           |  |
| 9                                                  | 130          | 2.61                    | 3.792                  | 11.695                 | 0.00                              | 0.184 | 2.65           | 0.80           | 1.00           | 0.0                     | 9.80                   | 25.96                    | 0.00                      | 2449       | 0                          | 57                      | 192                    | 250           |  |
| 8                                                  | 110          | 2.52                    | 4.160                  | 11.695                 | 0.00                              | 0.188 | 2.64           | 0.80           | 1.00           | 0.0                     | 10.10                  | 26.61                    | 0.00                      | 2469       | 0                          | 57                      | 185                    | 242           |  |
| 7                                                  | 90           | 2.41                    | 3.792                  | 11.695                 | 0.00                              | 0.184 | 2.65           | 0.80           | 1.00           | 0.0                     | 9.80                   | 25.96                    | 0.00                      | 2457       | 0                          | 53                      | 181                    | 235           |  |
| 6                                                  | 70           | 2.29                    | 3.792                  | 11.695                 | 0.00                              | 0.184 | 2.65           | 0.80           | 1.00           | 0.0                     | 9.80                   | 25.96                    | 0.00                      | 2457       | 0                          | 50                      | 172                    | 223           |  |
| 5                                                  | 50           | 2.13                    | 4.160                  | 11.695                 | 0.00                              | 0.188 | 2.64           | 0.80           | 1.00           | 0.0                     | 10.10                  | 26.61                    | 0.00                      | 2477       | 0                          | 48                      | 160                    | 208           |  |
| 4                                                  | 30           | 1.91                    | 3.792                  | 11.695                 | 0.00                              | 0.184 | 2.65           | 0.80           | 1.00           | 0.0                     | 9.80                   | 25.96                    | 0.00                      | 2457       | 0                          | 42                      | 144                    | 186           |  |
| 3                                                  | 14           | 1.66                    | 1.896                  | 7.021                  | 0.00                              | 0.177 | 2.68           | 0.80           | 1.00           | 0.0                     | 5.57                   | 14.90                    | 0.00                      | 1454       | 0                          | 21                      | 75                     | 96            |  |
| 2                                                  | 7            | 1.66                    | 1.264                  | 1.353                  | 0.00                              | 0.311 | 2.27           | 0.80           | 1.00           | 0.0                     | 1.84                   | 4.18                     | 0.00                      | 312        | 0                          | 6                       | 11                     | 17            |  |
| 1                                                  | 3            | 1.66                    | 3.625                  | 2.947                  | 0.00                              | 0.491 | 1.91           | 0.80           | 1.00           | 0.0                     | 4.91                   | 9.38                     | 0.00                      | 1058       | 0                          | 13                      | 25                     | 38            |  |
| ** = Section Force Exceeds Solidity Ratio Criteria |              |                         |                        |                        |                                   |       |                |                |                |                         |                        |                          |                           | Totals     | 39,704                     | 0                       |                        | 3,286         |  |

| 1.2D + 1.0Di + 1.0Wi 330°                          |              |                         | Gust Response Factor (Gh): 0.85   |                        |                            |       |                |                |                |                         |                        |                          |                            |            |                |                         |                        |               |
|----------------------------------------------------|--------------|-------------------------|-----------------------------------|------------------------|----------------------------|-------|----------------|----------------|----------------|-------------------------|------------------------|--------------------------|----------------------------|------------|----------------|-------------------------|------------------------|---------------|
| 30 mph Wind with 0" Radial Ice                     |              |                         | Wind Importance Factor (Iw): 1.00 |                        |                            |       |                |                |                |                         |                        |                          | Ice Dead Load Factor: 1.00 |            |                |                         |                        |               |
| Section #                                          | Elev<br>(ft) | Q <sub>Z</sub><br>(psf) | A <sub>r</sub><br>(sf)            | A <sub>r</sub><br>(sf) | Ice A <sub>r</sub><br>(sf) | e     | C <sub>r</sub> | D <sub>r</sub> | D <sub>r</sub> | T <sub>iz</sub><br>(in) | A <sub>e</sub><br>(sf) | EPA <sub>a</sub><br>(sf) | EPA <sub>ai</sub><br>(sf)  | Wt<br>(lb) | Ice Wt<br>(lb) | F <sub>st</sub><br>(lb) | F <sub>a</sub><br>(lb) | Force<br>(lb) |
| 20                                                 | 326          | 3.16                    | 1.271                             | 4.345                  | 0.00                       | 0.168 | 2.71           | 0.85           | 1.00           | 0.0                     | 3.58                   | 9.70                     | 0.00                       | 647        | 0              | 26                      | 4                      | 30            |
| 19                                                 | 321          | 3.15                    | 1.271                             | 1.272                  | 0.00                       | 0.304 | 2.29           | 0.85           | 1.00           | 0.0                     | 1.86                   | 4.25                     | 0.00                       | 231        | 0              | 11                      | 1                      | 12            |
| 18                                                 | 310          | 3.13                    | 4.177                             | 10.874                 | 0.00                       | 0.180 | 2.67           | 0.85           | 1.00           | 0.0                     | 9.83                   | 26.20                    | 0.00                       | 1673       | 0              | 70                      | 9                      | 78            |
| 17                                                 | 290          | 3.08                    | 3.812                             | 10.874                 | 0.00                       | 0.175 | 2.68           | 0.85           | 1.00           | 0.0                     | 9.51                   | 25.50                    | 0.00                       | 1764       | 0              | 67                      | 37                     | 103           |
| 16                                                 | 270          | 3.04                    | 4.177                             | 10.874                 | 0.00                       | 0.180 | 2.67           | 0.85           | 1.00           | 0.0                     | 9.83                   | 26.20                    | 0.00                       | 1861       | 0              | 68                      | 78                     | 145           |
| 15                                                 | 250          | 2.99                    | 3.812                             | 10.874                 | 0.00                       | 0.175 | 2.68           | 0.85           | 1.00           | 0.0                     | 9.51                   | 25.50                    | 0.00                       | 2085       | 0              | 65                      | 144                    | 209           |
| 14                                                 | 230          | 2.94                    | 4.177                             | 10.874                 | 0.00                       | 0.180 | 2.67           | 0.85           | 1.00           | 0.0                     | 9.83                   | 26.20                    | 0.00                       | 2157       | 0              | 65                      | 164                    | 230           |
| 13                                                 | 210          | 2.88                    | 3.812                             | 10.874                 | 0.00                       | 0.175 | 2.68           | 0.85           | 1.00           | 0.0                     | 9.51                   | 25.50                    | 0.00                       | 2137       | 0              | 62                      | 162                    | 224           |
| 12                                                 | 190          | 2.82                    | 13.643                            | 9.167                  | 0.00                       | 0.270 | 2.38           | 0.85           | 1.00           | 0.0                     | 17.01                  | 40.47                    | 0.00                       | 3165       | 0              | 97                      | 158                    | 255           |
| 11                                                 | 170          | 2.76                    | 13.738                            | 9.167                  | 0.00                       | 0.271 | 2.38           | 0.85           | 1.00           | 0.0                     | 17.09                  | 40.61                    | 0.00                       | 3185       | 0              | 95                      | 165                    | 260           |
| 10                                                 | 150          | 2.68                    | 13.643                            | 9.167                  | 0.00                       | 0.270 | 2.38           | 0.85           | 1.00           | 0.0                     | 17.01                  | 40.47                    | 0.00                       | 3210       | 0              | 92                      | 173                    | 265           |
| 9                                                  | 130          | 2.61                    | 3.792                             | 11.695                 | 0.00                       | 0.184 | 2.65           | 0.85           | 1.00           | 0.0                     | 9.99                   | 26.46                    | 0.00                       | 2449       | 0              | 59                      | 192                    | 251           |
| 8                                                  | 110          | 2.52                    | 4.160                             | 11.695                 | 0.00                       | 0.188 | 2.64           | 0.85           | 1.00           | 0.0                     | 10.31                  | 27.16                    | 0.00                       | 2469       | 0              | 58                      | 185                    | 243           |
| 7                                                  | 90           | 2.41                    | 3.792                             | 11.695                 | 0.00                       | 0.184 | 2.65           | 0.85           | 1.00           | 0.0                     | 9.99                   | 26.46                    | 0.00                       | 2457       | 0              | 54                      | 181                    | 236           |
| 6                                                  | 70           | 2.29                    | 3.792                             | 11.695                 | 0.00                       | 0.184 | 2.65           | 0.85           | 1.00           | 0.0                     | 9.99                   | 26.46                    | 0.00                       | 2457       | 0              | 51                      | 172                    | 224           |
| 5                                                  | 50           | 2.13                    | 4.160                             | 11.695                 | 0.00                       | 0.188 | 2.64           | 0.85           | 1.00           | 0.0                     | 10.31                  | 27.16                    | 0.00                       | 2477       | 0              | 49                      | 160                    | 209           |
| 4                                                  | 30           | 1.91                    | 3.792                             | 11.695                 | 0.00                       | 0.184 | 2.65           | 0.85           | 1.00           | 0.0                     | 9.99                   | 26.46                    | 0.00                       | 2457       | 0              | 43                      | 144                    | 187           |
| 3                                                  | 14           | 1.66                    | 1.896                             | 7.021                  | 0.00                       | 0.177 | 2.68           | 0.85           | 1.00           | 0.0                     | 5.66                   | 15.16                    | 0.00                       | 1454       | 0              | 21                      | 75                     | 97            |
| 2                                                  | 7            | 1.66                    | 1.264                             | 1.353                  | 0.00                       | 0.311 | 2.27           | 0.85           | 1.00           | 0.0                     | 1.91                   | 4.32                     | 0.00                       | 312        | 0              | 6                       | 11                     | 17            |
| 1                                                  | 3            | 1.66                    | 3.625                             | 2.947                  | 0.00                       | 0.491 | 1.91           | 0.85           | 1.00           | 0.0                     | 5.09                   | 9.72                     | 0.00                       | 1058       | 0              | 14                      | 25                     | 39            |
| ** = Section Force Exceeds Solidity Ratio Criteria |              |                         |                                   |                        |                            |       |                |                |                |                         |                        |                          |                            | Totals     | 39,704         | 0                       | 3,314                  |               |

| SECTION FORCES                                     |              |                         |                        |                        |                            |                              |                |                |                |                         |                        |                          |                           |            |                |                         |                        |               |
|----------------------------------------------------|--------------|-------------------------|------------------------|------------------------|----------------------------|------------------------------|----------------|----------------|----------------|-------------------------|------------------------|--------------------------|---------------------------|------------|----------------|-------------------------|------------------------|---------------|
| 1.0D + 1.0W Service Normal                         |              |                         |                        |                        |                            | Gust Response Factor (Gh):   |                | 0.85           |                |                         |                        |                          |                           |            |                |                         |                        |               |
| 60 mph Wind with No Ice                            |              |                         |                        |                        |                            | Wind Importance Factor (Iw): |                | 1.00           |                |                         |                        |                          |                           |            |                |                         |                        |               |
| Section #                                          | Elev<br>(ft) | Q <sub>Z</sub><br>(psf) | A <sub>r</sub><br>(sf) | A <sub>r</sub><br>(sf) | Ice A <sub>r</sub><br>(sf) | e                            | C <sub>t</sub> | D <sub>t</sub> | D <sub>r</sub> | T <sub>iz</sub><br>(in) | A <sub>e</sub><br>(sf) | EPA <sub>a</sub><br>(sf) | EPA <sub>ai</sub><br>(sf) | Wt<br>(lb) | Ice Wt<br>(lb) | F <sub>st</sub><br>(lb) | F <sub>a</sub><br>(lb) | Force<br>(lb) |
| 20                                                 | 326          | 12.65                   | 1.271                  | 4.345                  | 0.00                       | 0.168                        | 2.71           | 1.00           | 1.00           | 0.0                     | 3.77                   | 10.21                    | 0.00                      | 539        | 0              | 110                     | 10                     | 120           |
| 19                                                 | 321          | 12.61                   | 1.271                  | 1.272                  | 0.00                       | 0.304                        | 2.29           | 1.00           | 1.00           | 0.0                     | 2.05                   | 4.68                     | 0.00                      | 193        | 0              | 50                      | 3                      | 53            |
| 18                                                 | 310          | 12.51                   | 4.177                  | 10.874                 | 0.00                       | 0.180                        | 2.67           | 1.00           | 1.00           | 0.0                     | 10.46                  | 27.87                    | 0.00                      | 1394       | 0              | 296                     | 26                     | 322           |
| 17                                                 | 290          | 12.34                   | 3.812                  | 10.874                 | 0.00                       | 0.175                        | 2.68           | 1.00           | 1.00           | 0.0                     | 10.08                  | 27.03                    | 0.00                      | 1470       | 0              | 283                     | 106                    | 390           |
| 16                                                 | 270          | 12.15                   | 4.177                  | 10.874                 | 0.00                       | 0.180                        | 2.67           | 1.00           | 1.00           | 0.0                     | 10.46                  | 27.87                    | 0.00                      | 1551       | 0              | 288                     | 227                    | 515           |
| 15                                                 | 250          | 11.96                   | 3.812                  | 10.874                 | 0.00                       | 0.175                        | 2.68           | 1.00           | 1.00           | 0.0                     | 10.08                  | 27.03                    | 0.00                      | 1738       | 0              | 275                     | 472                    | 747           |
| 14                                                 | 230          | 11.75                   | 4.177                  | 10.874                 | 0.00                       | 0.180                        | 2.67           | 1.00           | 1.00           | 0.0                     | 10.46                  | 27.87                    | 0.00                      | 1797       | 0              | 278                     | 536                    | 815           |
| 13                                                 | 210          | 11.53                   | 3.812                  | 10.874                 | 0.00                       | 0.175                        | 2.68           | 1.00           | 1.00           | 0.0                     | 10.08                  | 27.03                    | 0.00                      | 1781       | 0              | 265                     | 526                    | 791           |
| 12                                                 | 190          | 11.29                   | 13.643                 | 9.167                  | 0.00                       | 0.270                        | 2.38           | 1.00           | 1.00           | 0.0                     | 19.05                  | 45.34                    | 0.00                      | 2638       | 0              | 435                     | 555                    | 990           |
| 11                                                 | 170          | 11.03                   | 13.738                 | 9.167                  | 0.00                       | 0.271                        | 2.38           | 1.00           | 1.00           | 0.0                     | 19.15                  | 45.51                    | 0.00                      | 2654       | 0              | 427                     | 577                    | 1003          |
| 10                                                 | 150          | 10.74                   | 13.643                 | 9.167                  | 0.00                       | 0.270                        | 2.38           | 1.00           | 1.00           | 0.0                     | 19.05                  | 45.34                    | 0.00                      | 2675       | 0              | 414                     | 603                    | 1017          |
| 9                                                  | 130          | 10.42                   | 3.792                  | 11.695                 | 0.00                       | 0.184                        | 2.65           | 1.00           | 1.00           | 0.0                     | 10.55                  | 27.97                    | 0.00                      | 2041       | 0              | 248                     | 614                    | 862           |
| 8                                                  | 110          | 10.06                   | 4.160                  | 11.695                 | 0.00                       | 0.188                        | 2.64           | 1.00           | 1.00           | 0.0                     | 10.93                  | 28.80                    | 0.00                      | 2058       | 0              | 246                     | 593                    | 839           |
| 7                                                  | 90           | 9.64                    | 3.792                  | 11.695                 | 0.00                       | 0.184                        | 2.65           | 1.00           | 1.00           | 0.0                     | 10.55                  | 27.97                    | 0.00                      | 2047       | 0              | 229                     | 579                    | 808           |
| 6                                                  | 70           | 9.15                    | 3.792                  | 11.695                 | 0.00                       | 0.184                        | 2.65           | 1.00           | 1.00           | 0.0                     | 10.55                  | 27.97                    | 0.00                      | 2048       | 0              | 217                     | 549                    | 767           |
| 5                                                  | 50           | 8.52                    | 4.160                  | 11.695                 | 0.00                       | 0.188                        | 2.64           | 1.00           | 1.00           | 0.0                     | 10.93                  | 28.80                    | 0.00                      | 2064       | 0              | 209                     | 512                    | 720           |
| 4                                                  | 30           | 7.65                    | 3.792                  | 11.695                 | 0.00                       | 0.184                        | 2.65           | 1.00           | 1.00           | 0.0                     | 10.55                  | 27.97                    | 0.00                      | 2048       | 0              | 182                     | 460                    | 641           |
| 3                                                  | 14           | 6.62                    | 1.896                  | 7.021                  | 0.00                       | 0.177                        | 2.68           | 1.00           | 1.00           | 0.0                     | 5.95                   | 15.92                    | 0.00                      | 1211       | 0              | 90                      | 239                    | 328           |
| 2                                                  | 7            | 6.62                    | 1.264                  | 1.353                  | 0.00                       | 0.311                        | 2.27           | 1.00           | 1.00           | 0.0                     | 2.09                   | 4.75                     | 0.00                      | 260        | 0              | 27                      | 40                     | 67            |
| 1                                                  | 3            | 6.62                    | 3.625                  | 2.947                  | 0.00                       | 0.491                        | 1.91           | 1.00           | 1.00           | 0.0                     | 5.63                   | 10.76                    | 0.00                      | 881        | 0              | 61                      | 101                    | 158           |
| ** = Section Force Exceeds Solidity Ratio Criteria |              |                         |                        |                        |                            |                              |                |                |                |                         |                        |                          | Totals                    | 33,087     | 0              | 11,952                  |                        |               |

| 1.0D + 1.0W Service 60°                            |              |                         |                        |                        |                            | Gust Response Factor (Gh):   |                |                |                | 0.85                    |                        |                          |                           |            |                |                         |                        |               |
|----------------------------------------------------|--------------|-------------------------|------------------------|------------------------|----------------------------|------------------------------|----------------|----------------|----------------|-------------------------|------------------------|--------------------------|---------------------------|------------|----------------|-------------------------|------------------------|---------------|
| 60 mph Wind with No Ice                            |              |                         |                        |                        |                            | Wind Importance Factor (Iw): |                |                |                | 1.00                    |                        |                          |                           |            |                |                         |                        |               |
| Section #                                          | Elev<br>(ft) | Q <sub>Z</sub><br>(psf) | A <sub>r</sub><br>(sf) | A <sub>r</sub><br>(sf) | Ice A <sub>r</sub><br>(sf) | e                            | C <sub>i</sub> | D <sub>r</sub> | D <sub>r</sub> | T <sub>iz</sub><br>(in) | A <sub>e</sub><br>(sf) | EPA <sub>a</sub><br>(sf) | EPA <sub>ai</sub><br>(sf) | Wt<br>(lb) | Ice Wt<br>(lb) | F <sub>st</sub><br>(lb) | F <sub>a</sub><br>(lb) | Force<br>(lb) |
| 20                                                 | 326          | 12.65                   | 1.271                  | 4.345                  | 0.00                       | 0.168                        | 2.71           | 0.80           | 1.00           | 0.0                     | 3.52                   | 9.53                     | 0.00                      | 539        | 0              | 102                     | 10                     | 113           |
| 19                                                 | 321          | 12.61                   | 1.271                  | 1.272                  | 0.00                       | 0.304                        | 2.29           | 0.80           | 1.00           | 0.0                     | 1.79                   | 4.10                     | 0.00                      | 193        | 0              | 44                      | 3                      | 47            |
| 18                                                 | 310          | 12.51                   | 4.177                  | 10.874                 | 0.00                       | 0.180                        | 2.67           | 0.80           | 1.00           | 0.0                     | 9.62                   | 25.64                    | 0.00                      | 1394       | 0              | 273                     | 26                     | 298           |
| 17                                                 | 290          | 12.34                   | 3.812                  | 10.874                 | 0.00                       | 0.175                        | 2.68           | 0.80           | 1.00           | 0.0                     | 9.32                   | 24.99                    | 0.00                      | 1470       | 0              | 262                     | 106                    | 368           |
| 16                                                 | 270          | 12.15                   | 4.177                  | 10.874                 | 0.00                       | 0.180                        | 2.67           | 0.80           | 1.00           | 0.0                     | 9.62                   | 25.64                    | 0.00                      | 1551       | 0              | 265                     | 227                    | 492           |
| 15                                                 | 250          | 11.96                   | 3.812                  | 10.874                 | 0.00                       | 0.175                        | 2.68           | 0.80           | 1.00           | 0.0                     | 9.32                   | 24.99                    | 0.00                      | 1738       | 0              | 254                     | 472                    | 726           |
| 14                                                 | 230          | 11.75                   | 4.177                  | 10.874                 | 0.00                       | 0.180                        | 2.67           | 0.80           | 1.00           | 0.0                     | 9.62                   | 25.64                    | 0.00                      | 1797       | 0              | 256                     | 536                    | 793           |
| 13                                                 | 210          | 11.53                   | 3.812                  | 10.874                 | 0.00                       | 0.175                        | 2.68           | 0.80           | 1.00           | 0.0                     | 9.32                   | 24.99                    | 0.00                      | 1781       | 0              | 245                     | 526                    | 771           |
| 12                                                 | 190          | 11.29                   | 13.643                 | 9.167                  | 0.00                       | 0.270                        | 2.38           | 0.80           | 1.00           | 0.0                     | 16.32                  | 38.85                    | 0.00                      | 2638       | 0              | 373                     | 555                    | 927           |
| 11                                                 | 170          | 11.03                   | 13.738                 | 9.167                  | 0.00                       | 0.271                        | 2.38           | 0.80           | 1.00           | 0.0                     | 16.40                  | 38.98                    | 0.00                      | 2654       | 0              | 365                     | 577                    | 942           |
| 10                                                 | 150          | 10.74                   | 13.643                 | 9.167                  | 0.00                       | 0.270                        | 2.38           | 0.80           | 1.00           | 0.0                     | 16.32                  | 38.85                    | 0.00                      | 2675       | 0              | 355                     | 603                    | 958           |
| 9                                                  | 130          | 10.42                   | 3.792                  | 11.695                 | 0.00                       | 0.184                        | 2.65           | 0.80           | 1.00           | 0.0                     | 9.80                   | 25.96                    | 0.00                      | 2041       | 0              | 230                     | 614                    | 844           |
| 8                                                  | 110          | 10.06                   | 4.160                  | 11.695                 | 0.00                       | 0.188                        | 2.64           | 0.80           | 1.00           | 0.0                     | 10.10                  | 26.61                    | 0.00                      | 2058       | 0              | 228                     | 593                    | 820           |
| 7                                                  | 90           | 9.64                    | 3.792                  | 11.695                 | 0.00                       | 0.184                        | 2.65           | 0.80           | 1.00           | 0.0                     | 9.80                   | 25.96                    | 0.00                      | 2047       | 0              | 213                     | 579                    | 791           |
| 6                                                  | 70           | 9.15                    | 3.792                  | 11.695                 | 0.00                       | 0.184                        | 2.65           | 0.80           | 1.00           | 0.0                     | 9.80                   | 25.96                    | 0.00                      | 2048       | 0              | 202                     | 549                    | 751           |
| 5                                                  | 50           | 8.52                    | 4.160                  | 11.695                 | 0.00                       | 0.188                        | 2.64           | 0.80           | 1.00           | 0.0                     | 10.10                  | 26.61                    | 0.00                      | 2064       | 0              | 193                     | 512                    | 704           |
| 4                                                  | 30           | 7.65                    | 3.792                  | 11.695                 | 0.00                       | 0.184                        | 2.65           | 0.80           | 1.00           | 0.0                     | 9.80                   | 25.96                    | 0.00                      | 2048       | 0              | 169                     | 460                    | 628           |
| 3                                                  | 14           | 6.62                    | 1.896                  | 7.021                  | 0.00                       | 0.177                        | 2.68           | 0.80           | 1.00           | 0.0                     | 5.57                   | 14.90                    | 0.00                      | 1211       | 0              | 84                      | 239                    | 322           |
| 2                                                  | 7            | 6.62                    | 1.264                  | 1.353                  | 0.00                       | 0.311                        | 2.27           | 0.80           | 1.00           | 0.0                     | 1.84                   | 4.18                     | 0.00                      | 260        | 0              | 24                      | 40                     | 63            |
| 1                                                  | 3            | 6.62                    | 3.625                  | 2.947                  | 0.00                       | 0.491                        | 1.91           | 0.80           | 1.00           | 0.0                     | 4.91                   | 9.38                     | 0.00                      | 881        | 0              | 53                      | 101                    | 154           |
| ** = Section Force Exceeds Solidity Ratio Criteria |              |                         |                        |                        |                            |                              |                |                |                |                         |                        |                          |                           | Totals     | 33,087         | 0                       | 11,514                 |               |

| 1.0D + 1.0W Service 90°                            |              |                         |                        |                        |                            | Gust Response Factor (Gh):   |                |                |                | 0.85                    |                        |                          |                           |            |                |                         |                        |               |
|----------------------------------------------------|--------------|-------------------------|------------------------|------------------------|----------------------------|------------------------------|----------------|----------------|----------------|-------------------------|------------------------|--------------------------|---------------------------|------------|----------------|-------------------------|------------------------|---------------|
| 60 mph Wind with No Ice                            |              |                         |                        |                        |                            | Wind Importance Factor (Iw): |                |                |                | 1.00                    |                        |                          |                           |            |                |                         |                        |               |
| Section #                                          | Elev<br>(ft) | Q <sub>Z</sub><br>(psf) | A <sub>r</sub><br>(sf) | A <sub>r</sub><br>(sf) | Ice A <sub>r</sub><br>(sf) | e                            | C <sub>r</sub> | D <sub>r</sub> | D <sub>r</sub> | T <sub>iz</sub><br>(in) | A <sub>e</sub><br>(sf) | EPA <sub>a</sub><br>(sf) | EPA <sub>ai</sub><br>(sf) | Wt<br>(lb) | Ice Wt<br>(lb) | F <sub>st</sub><br>(lb) | F <sub>a</sub><br>(lb) | Force<br>(lb) |
| 20                                                 | 326          | 12.65                   | 1.271                  | 4.345                  | 0.00                       | 0.168                        | 2.71           | 0.85           | 1.00           | 0.0                     | 3.58                   | 9.70                     | 0.00                      | 539        | 0              | 104                     | 10                     | 115           |
| 19                                                 | 321          | 12.61                   | 1.271                  | 1.272                  | 0.00                       | 0.304                        | 2.29           | 0.85           | 1.00           | 0.0                     | 1.86                   | 4.25                     | 0.00                      | 193        | 0              | 46                      | 3                      | 48            |
| 18                                                 | 310          | 12.51                   | 4.177                  | 10.874                 | 0.00                       | 0.180                        | 2.67           | 0.85           | 1.00           | 0.0                     | 9.83                   | 26.20                    | 0.00                      | 1394       | 0              | 279                     | 26                     | 304           |
| 17                                                 | 290          | 12.34                   | 3.812                  | 10.874                 | 0.00                       | 0.175                        | 2.68           | 0.85           | 1.00           | 0.0                     | 9.51                   | 25.50                    | 0.00                      | 1470       | 0              | 267                     | 106                    | 374           |
| 16                                                 | 270          | 12.15                   | 4.177                  | 10.874                 | 0.00                       | 0.180                        | 2.67           | 0.85           | 1.00           | 0.0                     | 9.83                   | 26.20                    | 0.00                      | 1551       | 0              | 271                     | 227                    | 498           |
| 15                                                 | 250          | 11.96                   | 3.812                  | 10.874                 | 0.00                       | 0.175                        | 2.68           | 0.85           | 1.00           | 0.0                     | 9.51                   | 25.50                    | 0.00                      | 1738       | 0              | 259                     | 472                    | 731           |
| 14                                                 | 230          | 11.75                   | 4.177                  | 10.874                 | 0.00                       | 0.180                        | 2.67           | 0.85           | 1.00           | 0.0                     | 9.83                   | 26.20                    | 0.00                      | 1797       | 0              | 262                     | 536                    | 798           |
| 13                                                 | 210          | 11.53                   | 3.812                  | 10.874                 | 0.00                       | 0.175                        | 2.68           | 0.85           | 1.00           | 0.0                     | 9.51                   | 25.50                    | 0.00                      | 1781       | 0              | 250                     | 526                    | 776           |
| 12                                                 | 190          | 11.29                   | 13.643                 | 9.167                  | 0.00                       | 0.270                        | 2.38           | 0.85           | 1.00           | 0.0                     | 17.01                  | 40.47                    | 0.00                      | 2638       | 0              | 388                     | 555                    | 943           |
| 11                                                 | 170          | 11.03                   | 13.738                 | 9.167                  | 0.00                       | 0.271                        | 2.38           | 0.85           | 1.00           | 0.0                     | 17.09                  | 40.61                    | 0.00                      | 2654       | 0              | 381                     | 577                    | 957           |
| 10                                                 | 150          | 10.74                   | 13.643                 | 9.167                  | 0.00                       | 0.270                        | 2.38           | 0.85           | 1.00           | 0.0                     | 17.01                  | 40.47                    | 0.00                      | 2675       | 0              | 369                     | 603                    | 972           |
| 9                                                  | 130          | 10.42                   | 3.792                  | 11.695                 | 0.00                       | 0.184                        | 2.65           | 0.85           | 1.00           | 0.0                     | 9.99                   | 26.46                    | 0.00                      | 2041       | 0              | 234                     | 614                    | 849           |
| 8                                                  | 110          | 10.06                   | 4.160                  | 11.695                 | 0.00                       | 0.188                        | 2.64           | 0.85           | 1.00           | 0.0                     | 10.31                  | 27.16                    | 0.00                      | 2058       | 0              | 232                     | 593                    | 825           |
| 7                                                  | 90           | 9.64                    | 3.792                  | 11.695                 | 0.00                       | 0.184                        | 2.65           | 0.85           | 1.00           | 0.0                     | 9.99                   | 26.46                    | 0.00                      | 2047       | 0              | 217                     | 579                    | 796           |
| 6                                                  | 70           | 9.15                    | 3.792                  | 11.695                 | 0.00                       | 0.184                        | 2.65           | 0.85           | 1.00           | 0.0                     | 9.99                   | 26.46                    | 0.00                      | 2048       | 0              | 206                     | 549                    | 755           |
| 5                                                  | 50           | 8.52                    | 4.160                  | 11.695                 | 0.00                       | 0.188                        | 2.64           | 0.85           | 1.00           | 0.0                     | 10.31                  | 27.16                    | 0.00                      | 2064       | 0              | 197                     | 512                    | 708           |
| 4                                                  | 30           | 7.65                    | 3.792                  | 11.695                 | 0.00                       | 0.184                        | 2.65           | 0.85           | 1.00           | 0.0                     | 9.99                   | 26.46                    | 0.00                      | 2048       | 0              | 172                     | 460                    | 632           |
| 3                                                  | 14           | 6.62                    | 1.896                  | 7.021                  | 0.00                       | 0.177                        | 2.68           | 0.85           | 1.00           | 0.0                     | 5.66                   | 15.16                    | 0.00                      | 1211       | 0              | 85                      | 239                    | 324           |
| 2                                                  | 7            | 6.62                    | 1.264                  | 1.353                  | 0.00                       | 0.311                        | 2.27           | 0.85           | 1.00           | 0.0                     | 1.91                   | 4.32                     | 0.00                      | 260        | 0              | 24                      | 40                     | 64            |
| 1                                                  | 3            | 6.62                    | 3.625                  | 2.947                  | 0.00                       | 0.491                        | 1.91           | 0.85           | 1.00           | 0.0                     | 5.09                   | 9.72                     | 0.00                      | 881        | 0              | 55                      | 101                    | 156           |
| ** = Section Force Exceeds Solidity Ratio Criteria |              |                         |                        |                        |                            |                              |                |                |                |                         |                        |                          |                           | Totals     | 33,087         | 0                       | 11,625                 |               |

ASSET: 2543, Five Points  
CUSTOMER: T-MOBILE

CODE: ANSI/TIA-222-H  
PROJECT: 14910189\_C3\_03

| SECTION FORCES                                     |              |                         |                        |                        |                            |                              |                |                |                |                         |                        |                          |                           |            |                |                         |                        |               |
|----------------------------------------------------|--------------|-------------------------|------------------------|------------------------|----------------------------|------------------------------|----------------|----------------|----------------|-------------------------|------------------------|--------------------------|---------------------------|------------|----------------|-------------------------|------------------------|---------------|
| 1.0D + 1.0W Service 120°                           |              |                         |                        |                        |                            | Gust Response Factor (Gh):   |                | 0.85           |                |                         |                        |                          |                           |            |                |                         |                        |               |
| 60 mph Wind with No Ice                            |              |                         |                        |                        |                            | Wind Importance Factor (Iw): |                | 1.00           |                |                         |                        |                          |                           |            |                |                         |                        |               |
| Section #                                          | Elev<br>(ft) | Q <sub>z</sub><br>(psf) | A <sub>r</sub><br>(sf) | A <sub>r</sub><br>(sf) | Ice A <sub>r</sub><br>(sf) | e                            | C <sub>t</sub> | D <sub>t</sub> | D <sub>r</sub> | T <sub>iz</sub><br>(in) | A <sub>e</sub><br>(sf) | EPA <sub>a</sub><br>(sf) | EPA <sub>ai</sub><br>(sf) | Wt<br>(lb) | Ice Wt<br>(lb) | F <sub>st</sub><br>(lb) | F <sub>a</sub><br>(lb) | Force<br>(lb) |
| 20                                                 | 326          | 12.65                   | 1.271                  | 4.345                  | 0.00                       | 0.168                        | 2.71           | 1.00           | 1.00           | 0.0                     | 3.77                   | 10.21                    | 0.00                      | 539        | 0              | 110                     | 10                     | 120           |
| 19                                                 | 321          | 12.61                   | 1.271                  | 1.272                  | 0.00                       | 0.304                        | 2.29           | 1.00           | 1.00           | 0.0                     | 2.05                   | 4.68                     | 0.00                      | 193        | 0              | 50                      | 3                      | 53            |
| 18                                                 | 310          | 12.51                   | 4.177                  | 10.874                 | 0.00                       | 0.180                        | 2.67           | 1.00           | 1.00           | 0.0                     | 10.46                  | 27.87                    | 0.00                      | 1394       | 0              | 296                     | 26                     | 322           |
| 17                                                 | 290          | 12.34                   | 3.812                  | 10.874                 | 0.00                       | 0.175                        | 2.68           | 1.00           | 1.00           | 0.0                     | 10.08                  | 27.03                    | 0.00                      | 1470       | 0              | 283                     | 106                    | 390           |
| 16                                                 | 270          | 12.15                   | 4.177                  | 10.874                 | 0.00                       | 0.180                        | 2.67           | 1.00           | 1.00           | 0.0                     | 10.46                  | 27.87                    | 0.00                      | 1551       | 0              | 288                     | 227                    | 515           |
| 15                                                 | 250          | 11.96                   | 3.812                  | 10.874                 | 0.00                       | 0.175                        | 2.68           | 1.00           | 1.00           | 0.0                     | 10.08                  | 27.03                    | 0.00                      | 1738       | 0              | 275                     | 472                    | 747           |
| 14                                                 | 230          | 11.75                   | 4.177                  | 10.874                 | 0.00                       | 0.180                        | 2.67           | 1.00           | 1.00           | 0.0                     | 10.46                  | 27.87                    | 0.00                      | 1797       | 0              | 278                     | 536                    | 815           |
| 13                                                 | 210          | 11.53                   | 3.812                  | 10.874                 | 0.00                       | 0.175                        | 2.68           | 1.00           | 1.00           | 0.0                     | 10.08                  | 27.03                    | 0.00                      | 1781       | 0              | 265                     | 526                    | 791           |
| 12                                                 | 190          | 11.29                   | 13.643                 | 9.167                  | 0.00                       | 0.270                        | 2.38           | 1.00           | 1.00           | 0.0                     | 19.05                  | 45.34                    | 0.00                      | 2638       | 0              | 435                     | 555                    | 990           |
| 11                                                 | 170          | 11.03                   | 13.738                 | 9.167                  | 0.00                       | 0.271                        | 2.38           | 1.00           | 1.00           | 0.0                     | 19.15                  | 45.51                    | 0.00                      | 2654       | 0              | 427                     | 577                    | 1003          |
| 10                                                 | 150          | 10.74                   | 13.643                 | 9.167                  | 0.00                       | 0.270                        | 2.38           | 1.00           | 1.00           | 0.0                     | 19.05                  | 45.34                    | 0.00                      | 2675       | 0              | 414                     | 603                    | 1017          |
| 9                                                  | 130          | 10.42                   | 3.792                  | 11.695                 | 0.00                       | 0.184                        | 2.65           | 1.00           | 1.00           | 0.0                     | 10.55                  | 27.97                    | 0.00                      | 2041       | 0              | 248                     | 614                    | 862           |
| 8                                                  | 110          | 10.06                   | 4.160                  | 11.695                 | 0.00                       | 0.188                        | 2.64           | 1.00           | 1.00           | 0.0                     | 10.93                  | 28.80                    | 0.00                      | 2058       | 0              | 246                     | 593                    | 839           |
| 7                                                  | 90           | 9.64                    | 3.792                  | 11.695                 | 0.00                       | 0.184                        | 2.65           | 1.00           | 1.00           | 0.0                     | 10.55                  | 27.97                    | 0.00                      | 2047       | 0              | 229                     | 579                    | 808           |
| 6                                                  | 70           | 9.15                    | 3.792                  | 11.695                 | 0.00                       | 0.184                        | 2.65           | 1.00           | 1.00           | 0.0                     | 10.55                  | 27.97                    | 0.00                      | 2048       | 0              | 217                     | 549                    | 767           |
| 5                                                  | 50           | 8.52                    | 4.160                  | 11.695                 | 0.00                       | 0.188                        | 2.64           | 1.00           | 1.00           | 0.0                     | 10.93                  | 28.80                    | 0.00                      | 2064       | 0              | 209                     | 512                    | 720           |
| 4                                                  | 30           | 7.65                    | 3.792                  | 11.695                 | 0.00                       | 0.184                        | 2.65           | 1.00           | 1.00           | 0.0                     | 10.55                  | 27.97                    | 0.00                      | 2048       | 0              | 182                     | 460                    | 641           |
| 3                                                  | 14           | 6.62                    | 1.896                  | 7.021                  | 0.00                       | 0.177                        | 2.68           | 1.00           | 1.00           | 0.0                     | 5.95                   | 15.92                    | 0.00                      | 1211       | 0              | 90                      | 239                    | 328           |
| 2                                                  | 7            | 6.62                    | 1.264                  | 1.353                  | 0.00                       | 0.311                        | 2.27           | 1.00           | 1.00           | 0.0                     | 2.09                   | 4.75                     | 0.00                      | 260        | 0              | 27                      | 40                     | 67            |
| 1                                                  | 3            | 6.62                    | 3.625                  | 2.947                  | 0.00                       | 0.491                        | 1.91           | 1.00           | 1.00           | 0.0                     | 5.63                   | 10.76                    | 0.00                      | 881        | 0              | 61                      | 101                    | 158           |
| ** = Section Force Exceeds Solidity Ratio Criteria |              |                         |                        |                        |                            |                              |                |                |                |                         |                        |                          |                           | Totals     | 33,087         | 0                       | 11,952                 |               |

| 1.0D + 1.0W Service 180°                           |              |                         |                        |                        |                            | Gust Response Factor (Gh): 0.85   |                |                |                |                         |                        |                          |                           |            |                |                         |                        |               |
|----------------------------------------------------|--------------|-------------------------|------------------------|------------------------|----------------------------|-----------------------------------|----------------|----------------|----------------|-------------------------|------------------------|--------------------------|---------------------------|------------|----------------|-------------------------|------------------------|---------------|
| 60 mph Wind with No Ice                            |              |                         |                        |                        |                            | Wind Importance Factor (Iw): 1.00 |                |                |                |                         |                        |                          |                           |            |                |                         |                        |               |
| Section #                                          | Elev<br>(ft) | Q <sub>Z</sub><br>(psf) | A <sub>r</sub><br>(sf) | A <sub>r</sub><br>(sf) | Ice A <sub>r</sub><br>(sf) | e                                 | C <sub>f</sub> | D <sub>f</sub> | D <sub>r</sub> | T <sub>iz</sub><br>(in) | A <sub>e</sub><br>(sf) | EPA <sub>a</sub><br>(sf) | EPA <sub>ai</sub><br>(sf) | Wt<br>(lb) | Ice Wt<br>(lb) | F <sub>st</sub><br>(lb) | F <sub>a</sub><br>(lb) | Force<br>(lb) |
| 20                                                 | 326          | 12.65                   | 1.271                  | 4.345                  | 0.00                       | 0.168                             | 2.71           | 0.80           | 1.00           | 0.0                     | 3.52                   | 9.53                     | 0.00                      | 539        | 0              | 102                     | 10                     | 113           |
| 19                                                 | 321          | 12.61                   | 1.271                  | 1.272                  | 0.00                       | 0.304                             | 2.29           | 0.80           | 1.00           | 0.0                     | 1.79                   | 4.10                     | 0.00                      | 193        | 0              | 44                      | 3                      | 47            |
| 18                                                 | 310          | 12.51                   | 4.177                  | 10.874                 | 0.00                       | 0.180                             | 2.67           | 0.80           | 1.00           | 0.0                     | 9.62                   | 25.64                    | 0.00                      | 1394       | 0              | 273                     | 26                     | 298           |
| 17                                                 | 290          | 12.34                   | 3.812                  | 10.874                 | 0.00                       | 0.175                             | 2.68           | 0.80           | 1.00           | 0.0                     | 9.32                   | 24.99                    | 0.00                      | 1470       | 0              | 262                     | 106                    | 368           |
| 16                                                 | 270          | 12.15                   | 4.177                  | 10.874                 | 0.00                       | 0.180                             | 2.67           | 0.80           | 1.00           | 0.0                     | 9.62                   | 25.64                    | 0.00                      | 1551       | 0              | 265                     | 227                    | 492           |
| 15                                                 | 250          | 11.96                   | 3.812                  | 10.874                 | 0.00                       | 0.175                             | 2.68           | 0.80           | 1.00           | 0.0                     | 9.32                   | 24.99                    | 0.00                      | 1738       | 0              | 254                     | 472                    | 726           |
| 14                                                 | 230          | 11.75                   | 4.177                  | 10.874                 | 0.00                       | 0.180                             | 2.67           | 0.80           | 1.00           | 0.0                     | 9.62                   | 25.64                    | 0.00                      | 1797       | 0              | 256                     | 536                    | 793           |
| 13                                                 | 210          | 11.53                   | 3.812                  | 10.874                 | 0.00                       | 0.175                             | 2.68           | 0.80           | 1.00           | 0.0                     | 9.32                   | 24.99                    | 0.00                      | 1781       | 0              | 245                     | 526                    | 771           |
| 12                                                 | 190          | 11.29                   | 13.643                 | 9.167                  | 0.00                       | 0.270                             | 2.38           | 0.80           | 1.00           | 0.0                     | 16.32                  | 38.85                    | 0.00                      | 2638       | 0              | 373                     | 555                    | 927           |
| 11                                                 | 170          | 11.03                   | 13.738                 | 9.167                  | 0.00                       | 0.271                             | 2.38           | 0.80           | 1.00           | 0.0                     | 16.40                  | 38.98                    | 0.00                      | 2654       | 0              | 365                     | 577                    | 942           |
| 10                                                 | 150          | 10.74                   | 13.643                 | 9.167                  | 0.00                       | 0.270                             | 2.38           | 0.80           | 1.00           | 0.0                     | 16.32                  | 38.85                    | 0.00                      | 2675       | 0              | 355                     | 603                    | 958           |
| 9                                                  | 130          | 10.42                   | 3.792                  | 11.695                 | 0.00                       | 0.184                             | 2.65           | 0.80           | 1.00           | 0.0                     | 9.80                   | 25.96                    | 0.00                      | 2041       | 0              | 230                     | 614                    | 844           |
| 8                                                  | 110          | 10.06                   | 4.160                  | 11.695                 | 0.00                       | 0.188                             | 2.64           | 0.80           | 1.00           | 0.0                     | 10.10                  | 26.61                    | 0.00                      | 2058       | 0              | 228                     | 593                    | 820           |
| 7                                                  | 90           | 9.64                    | 3.792                  | 11.695                 | 0.00                       | 0.184                             | 2.65           | 0.80           | 1.00           | 0.0                     | 9.80                   | 25.96                    | 0.00                      | 2047       | 0              | 213                     | 579                    | 791           |
| 6                                                  | 70           | 9.15                    | 3.792                  | 11.695                 | 0.00                       | 0.184                             | 2.65           | 0.80           | 1.00           | 0.0                     | 9.80                   | 25.96                    | 0.00                      | 2048       | 0              | 202                     | 549                    | 751           |
| 5                                                  | 50           | 8.52                    | 4.160                  | 11.695                 | 0.00                       | 0.188                             | 2.64           | 0.80           | 1.00           | 0.0                     | 10.10                  | 26.61                    | 0.00                      | 2064       | 0              | 193                     | 512                    | 704           |
| 4                                                  | 30           | 7.65                    | 3.792                  | 11.695                 | 0.00                       | 0.184                             | 2.65           | 0.80           | 1.00           | 0.0                     | 9.80                   | 25.96                    | 0.00                      | 2048       | 0              | 169                     | 460                    | 628           |
| 3                                                  | 14           | 6.62                    | 1.896                  | 7.021                  | 0.00                       | 0.177                             | 2.68           | 0.80           | 1.00           | 0.0                     | 5.57                   | 14.90                    | 0.00                      | 1211       | 0              | 84                      | 239                    | 322           |
| 2                                                  | 7            | 6.62                    | 1.264                  | 1.353                  | 0.00                       | 0.311                             | 2.27           | 0.80           | 1.00           | 0.0                     | 1.84                   | 4.18                     | 0.00                      | 260        | 0              | 24                      | 40                     | 63            |
| 1                                                  | 3            | 6.62                    | 3.625                  | 2.947                  | 0.00                       | 0.491                             | 1.91           | 0.80           | 1.00           | 0.0                     | 4.91                   | 9.38                     | 0.00                      | 881        | 0              | 53                      | 101                    | 154           |
| ** = Section Force Exceeds Solidity Ratio Criteria |              |                         |                        |                        |                            |                                   |                |                |                |                         |                        |                          |                           | Totals     | 33,087         | 0                       | 11,514                 |               |

| 1.0D + 1.0W Service 210°                           |              |                         |                        |                        |                            | Gust Response Factor (Gh): 0.85   |                |                |                |                         |                        |                          |                           |            |                |                         |                        |               |
|----------------------------------------------------|--------------|-------------------------|------------------------|------------------------|----------------------------|-----------------------------------|----------------|----------------|----------------|-------------------------|------------------------|--------------------------|---------------------------|------------|----------------|-------------------------|------------------------|---------------|
| 60 mph Wind with No Ice                            |              |                         |                        |                        |                            | Wind Importance Factor (Iw): 1.00 |                |                |                |                         |                        |                          |                           |            |                |                         |                        |               |
| Section #                                          | Elev<br>(ft) | Q <sub>z</sub><br>(psf) | A <sub>f</sub><br>(sf) | A <sub>r</sub><br>(sf) | Ice A <sub>r</sub><br>(sf) | e                                 | C <sub>r</sub> | D <sub>r</sub> | D <sub>r</sub> | T <sub>iz</sub><br>(in) | A <sub>e</sub><br>(sf) | EPA <sub>a</sub><br>(sf) | EPA <sub>ai</sub><br>(sf) | Wt<br>(lb) | Ice Wt<br>(lb) | F <sub>st</sub><br>(lb) | F <sub>a</sub><br>(lb) | Force<br>(lb) |
| 20                                                 | 326          | 12.65                   | 1.271                  | 4.345                  | 0.00                       | 0.168                             | 2.71           | 0.85           | 1.00           | 0.0                     | 3.58                   | 9.70                     | 0.00                      | 539        | 0              | 104                     | 10                     | 115           |
| 19                                                 | 321          | 12.61                   | 1.271                  | 1.272                  | 0.00                       | 0.304                             | 2.29           | 0.85           | 1.00           | 0.0                     | 1.86                   | 4.25                     | 0.00                      | 193        | 0              | 46                      | 3                      | 48            |
| 18                                                 | 310          | 12.51                   | 4.177                  | 10.874                 | 0.00                       | 0.180                             | 2.67           | 0.85           | 1.00           | 0.0                     | 9.83                   | 26.20                    | 0.00                      | 1394       | 0              | 279                     | 26                     | 304           |
| 17                                                 | 290          | 12.34                   | 3.812                  | 10.874                 | 0.00                       | 0.175                             | 2.68           | 0.85           | 1.00           | 0.0                     | 9.51                   | 25.50                    | 0.00                      | 1470       | 0              | 267                     | 106                    | 374           |
| 16                                                 | 270          | 12.15                   | 4.177                  | 10.874                 | 0.00                       | 0.180                             | 2.67           | 0.85           | 1.00           | 0.0                     | 9.83                   | 26.20                    | 0.00                      | 1551       | 0              | 271                     | 227                    | 498           |
| 15                                                 | 250          | 11.96                   | 3.812                  | 10.874                 | 0.00                       | 0.175                             | 2.68           | 0.85           | 1.00           | 0.0                     | 9.51                   | 25.50                    | 0.00                      | 1738       | 0              | 259                     | 472                    | 731           |
| 14                                                 | 230          | 11.75                   | 4.177                  | 10.874                 | 0.00                       | 0.180                             | 2.67           | 0.85           | 1.00           | 0.0                     | 9.83                   | 26.20                    | 0.00                      | 1797       | 0              | 262                     | 536                    | 798           |
| 13                                                 | 210          | 11.53                   | 3.812                  | 10.874                 | 0.00                       | 0.175                             | 2.68           | 0.85           | 1.00           | 0.0                     | 9.51                   | 25.50                    | 0.00                      | 1781       | 0              | 250                     | 526                    | 776           |
| 12                                                 | 190          | 11.29                   | 13.643                 | 9.167                  | 0.00                       | 0.270                             | 2.38           | 0.85           | 1.00           | 0.0                     | 17.01                  | 40.47                    | 0.00                      | 2638       | 0              | 388                     | 555                    | 943           |
| 11                                                 | 170          | 11.03                   | 13.738                 | 9.167                  | 0.00                       | 0.271                             | 2.38           | 0.85           | 1.00           | 0.0                     | 17.09                  | 40.61                    | 0.00                      | 2654       | 0              | 381                     | 577                    | 957           |
| 10                                                 | 150          | 10.74                   | 13.643                 | 9.167                  | 0.00                       | 0.270                             | 2.38           | 0.85           | 1.00           | 0.0                     | 17.01                  | 40.47                    | 0.00                      | 2675       | 0              | 369                     | 603                    | 972           |
| 9                                                  | 130          | 10.42                   | 3.792                  | 11.695                 | 0.00                       | 0.184                             | 2.65           | 0.85           | 1.00           | 0.0                     | 9.99                   | 26.46                    | 0.00                      | 2041       | 0              | 234                     | 614                    | 849           |
| 8                                                  | 110          | 10.06                   | 4.160                  | 11.695                 | 0.00                       | 0.188                             | 2.64           | 0.85           | 1.00           | 0.0                     | 10.31                  | 27.16                    | 0.00                      | 2058       | 0              | 232                     | 593                    | 825           |
| 7                                                  | 90           | 9.64                    | 3.792                  | 11.695                 | 0.00                       | 0.184                             | 2.65           | 0.85           | 1.00           | 0.0                     | 9.99                   | 26.46                    | 0.00                      | 2047       | 0              | 217                     | 579                    | 796           |
| 6                                                  | 70           | 9.15                    | 3.792                  | 11.695                 | 0.00                       | 0.184                             | 2.65           | 0.85           | 1.00           | 0.0                     | 9.99                   | 26.46                    | 0.00                      | 2048       | 0              | 206                     | 549                    | 755           |
| 5                                                  | 50           | 8.52                    | 4.160                  | 11.695                 | 0.00                       | 0.188                             | 2.64           | 0.85           | 1.00           | 0.0                     | 10.31                  | 27.16                    | 0.00                      | 2064       | 0              | 197                     | 512                    | 708           |
| 4                                                  | 30           | 7.65                    | 3.792                  | 11.695                 | 0.00                       | 0.184                             | 2.65           | 0.85           | 1.00           | 0.0                     | 9.99                   | 26.46                    | 0.00                      | 2048       | 0              | 172                     | 460                    | 632           |
| 3                                                  | 14           | 6.62                    | 1.896                  | 7.021                  | 0.00                       | 0.177                             | 2.68           | 0.85           | 1.00           | 0.0                     | 5.66                   | 15.16                    | 0.00                      | 1211       | 0              | 85                      | 239                    | 324           |
| 2                                                  | 7            | 6.62                    | 1.264                  | 1.353                  | 0.00                       | 0.311                             | 2.27           | 0.85           | 1.00           | 0.0                     | 1.91                   | 4.32                     | 0.00                      | 260        | 0              | 24                      | 40                     | 64            |
| 1                                                  | 3            | 6.62                    | 3.625                  | 2.947                  | 0.00                       | 0.491                             | 1.91           | 0.85           | 1.00           | 0.0                     | 5.09                   | 9.72                     | 0.00                      | 881        | 0              | 55                      | 101                    | 156           |
| ** = Section Force Exceeds Solidity Ratio Criteria |              |                         |                        |                        |                            |                                   |                |                |                |                         |                        |                          |                           | Totals     | 33,087         | 0                       | 11,625                 |               |

ASSET: 2543, Five Points  
CUSTOMER: T-MOBILE

CODE: ANSI/TIA-222-H  
PROJECT: 14910189\_C3\_03

| SECTION FORCES                                     |              |                         |                        |                        |                            |                              |                |                |                |                         |                        |                          |                           |            |                |                         |                        |               |
|----------------------------------------------------|--------------|-------------------------|------------------------|------------------------|----------------------------|------------------------------|----------------|----------------|----------------|-------------------------|------------------------|--------------------------|---------------------------|------------|----------------|-------------------------|------------------------|---------------|
| 1.0D + 1.0W Service 240°                           |              |                         |                        |                        |                            | Gust Response Factor (Gh):   |                | 0.85           |                |                         |                        |                          |                           |            |                |                         |                        |               |
| 60 mph Wind with No Ice                            |              |                         |                        |                        |                            | Wind Importance Factor (Iw): |                | 1.00           |                |                         |                        |                          |                           |            |                |                         |                        |               |
| Section #                                          | Elev<br>(ft) | Q <sub>z</sub><br>(psf) | A <sub>r</sub><br>(sf) | A <sub>r</sub><br>(sf) | Ice A <sub>r</sub><br>(sf) | e                            | C <sub>t</sub> | D <sub>t</sub> | D <sub>r</sub> | T <sub>iz</sub><br>(in) | A <sub>e</sub><br>(sf) | EPA <sub>a</sub><br>(sf) | EPA <sub>ai</sub><br>(sf) | Wt<br>(lb) | Ice Wt<br>(lb) | F <sub>st</sub><br>(lb) | F <sub>a</sub><br>(lb) | Force<br>(lb) |
| 20                                                 | 326          | 12.65                   | 1.271                  | 4.345                  | 0.00                       | 0.168                        | 2.71           | 1.00           | 1.00           | 0.0                     | 3.77                   | 10.21                    | 0.00                      | 539        | 0              | 110                     | 10                     | 120           |
| 19                                                 | 321          | 12.61                   | 1.271                  | 1.272                  | 0.00                       | 0.304                        | 2.29           | 1.00           | 1.00           | 0.0                     | 2.05                   | 4.68                     | 0.00                      | 193        | 0              | 50                      | 3                      | 53            |
| 18                                                 | 310          | 12.51                   | 4.177                  | 10.874                 | 0.00                       | 0.180                        | 2.67           | 1.00           | 1.00           | 0.0                     | 10.46                  | 27.87                    | 0.00                      | 1394       | 0              | 296                     | 26                     | 322           |
| 17                                                 | 290          | 12.34                   | 3.812                  | 10.874                 | 0.00                       | 0.175                        | 2.68           | 1.00           | 1.00           | 0.0                     | 10.08                  | 27.03                    | 0.00                      | 1470       | 0              | 283                     | 106                    | 390           |
| 16                                                 | 270          | 12.15                   | 4.177                  | 10.874                 | 0.00                       | 0.180                        | 2.67           | 1.00           | 1.00           | 0.0                     | 10.46                  | 27.87                    | 0.00                      | 1551       | 0              | 288                     | 227                    | 515           |
| 15                                                 | 250          | 11.96                   | 3.812                  | 10.874                 | 0.00                       | 0.175                        | 2.68           | 1.00           | 1.00           | 0.0                     | 10.08                  | 27.03                    | 0.00                      | 1738       | 0              | 275                     | 472                    | 747           |
| 14                                                 | 230          | 11.75                   | 4.177                  | 10.874                 | 0.00                       | 0.180                        | 2.67           | 1.00           | 1.00           | 0.0                     | 10.46                  | 27.87                    | 0.00                      | 1797       | 0              | 278                     | 536                    | 815           |
| 13                                                 | 210          | 11.53                   | 3.812                  | 10.874                 | 0.00                       | 0.175                        | 2.68           | 1.00           | 1.00           | 0.0                     | 10.08                  | 27.03                    | 0.00                      | 1781       | 0              | 265                     | 526                    | 791           |
| 12                                                 | 190          | 11.29                   | 13.643                 | 9.167                  | 0.00                       | 0.270                        | 2.38           | 1.00           | 1.00           | 0.0                     | 19.05                  | 45.34                    | 0.00                      | 2638       | 0              | 435                     | 555                    | 990           |
| 11                                                 | 170          | 11.03                   | 13.738                 | 9.167                  | 0.00                       | 0.271                        | 2.38           | 1.00           | 1.00           | 0.0                     | 19.15                  | 45.51                    | 0.00                      | 2654       | 0              | 427                     | 577                    | 1003          |
| 10                                                 | 150          | 10.74                   | 13.643                 | 9.167                  | 0.00                       | 0.270                        | 2.38           | 1.00           | 1.00           | 0.0                     | 19.05                  | 45.34                    | 0.00                      | 2675       | 0              | 414                     | 603                    | 1017          |
| 9                                                  | 130          | 10.42                   | 3.792                  | 11.695                 | 0.00                       | 0.184                        | 2.65           | 1.00           | 1.00           | 0.0                     | 10.55                  | 27.97                    | 0.00                      | 2041       | 0              | 248                     | 614                    | 862           |
| 8                                                  | 110          | 10.06                   | 4.160                  | 11.695                 | 0.00                       | 0.188                        | 2.64           | 1.00           | 1.00           | 0.0                     | 10.93                  | 28.80                    | 0.00                      | 2058       | 0              | 246                     | 593                    | 839           |
| 7                                                  | 90           | 9.64                    | 3.792                  | 11.695                 | 0.00                       | 0.184                        | 2.65           | 1.00           | 1.00           | 0.0                     | 10.55                  | 27.97                    | 0.00                      | 2047       | 0              | 229                     | 579                    | 808           |
| 6                                                  | 70           | 9.15                    | 3.792                  | 11.695                 | 0.00                       | 0.184                        | 2.65           | 1.00           | 1.00           | 0.0                     | 10.55                  | 27.97                    | 0.00                      | 2048       | 0              | 217                     | 549                    | 767           |
| 5                                                  | 50           | 8.52                    | 4.160                  | 11.695                 | 0.00                       | 0.188                        | 2.64           | 1.00           | 1.00           | 0.0                     | 10.93                  | 28.80                    | 0.00                      | 2064       | 0              | 209                     | 512                    | 720           |
| 4                                                  | 30           | 7.65                    | 3.792                  | 11.695                 | 0.00                       | 0.184                        | 2.65           | 1.00           | 1.00           | 0.0                     | 10.55                  | 27.97                    | 0.00                      | 2048       | 0              | 182                     | 460                    | 641           |
| 3                                                  | 14           | 6.62                    | 1.896                  | 7.021                  | 0.00                       | 0.177                        | 2.68           | 1.00           | 1.00           | 0.0                     | 5.95                   | 15.92                    | 0.00                      | 1211       | 0              | 90                      | 239                    | 328           |
| 2                                                  | 7            | 6.62                    | 1.264                  | 1.353                  | 0.00                       | 0.311                        | 2.27           | 1.00           | 1.00           | 0.0                     | 2.09                   | 4.75                     | 0.00                      | 260        | 0              | 27                      | 40                     | 67            |
| 1                                                  | 3            | 6.62                    | 3.625                  | 2.947                  | 0.00                       | 0.491                        | 1.91           | 1.00           | 1.00           | 0.0                     | 5.63                   | 10.76                    | 0.00                      | 881        | 0              | 61                      | 101                    | 158           |
| ** = Section Force Exceeds Solidity Ratio Criteria |              |                         |                        |                        |                            |                              |                |                |                |                         |                        |                          |                           | Totals     | 33,087         | 0                       | 11,952                 |               |

1.0D + 1.0W Service 300°  
60 mph Wind with No Ice

| 1.0D + 1.0W Service 300°                           |              |                         |                        |                        |                            | Gust Response Factor (Gh): 0.85   |                |                |                |                         |                        |                          |                           |            |                |                         |                        |               |
|----------------------------------------------------|--------------|-------------------------|------------------------|------------------------|----------------------------|-----------------------------------|----------------|----------------|----------------|-------------------------|------------------------|--------------------------|---------------------------|------------|----------------|-------------------------|------------------------|---------------|
| 60 mph Wind with No Ice                            |              |                         |                        |                        |                            | Wind Importance Factor (Iw): 1.00 |                |                |                |                         |                        |                          |                           |            |                |                         |                        |               |
| Section #                                          | Elev<br>(ft) | Q <sub>Z</sub><br>(psf) | A <sub>r</sub><br>(sf) | A <sub>r</sub><br>(sf) | Ice A <sub>r</sub><br>(sf) | e                                 | C <sub>f</sub> | D <sub>f</sub> | D <sub>r</sub> | T <sub>iz</sub><br>(in) | A <sub>e</sub><br>(sf) | EPA <sub>a</sub><br>(sf) | EPA <sub>ai</sub><br>(sf) | Wt<br>(lb) | Ice Wt<br>(lb) | F <sub>st</sub><br>(lb) | F <sub>a</sub><br>(lb) | Force<br>(lb) |
| 20                                                 | 326          | 12.65                   | 1.271                  | 4.345                  | 0.00                       | 0.168                             | 2.71           | 0.80           | 1.00           | 0.0                     | 3.52                   | 9.53                     | 0.00                      | 539        | 0              | 102                     | 10                     | 113           |
| 19                                                 | 321          | 12.61                   | 1.271                  | 1.272                  | 0.00                       | 0.304                             | 2.29           | 0.80           | 1.00           | 0.0                     | 1.79                   | 4.10                     | 0.00                      | 193        | 0              | 44                      | 3                      | 47            |
| 18                                                 | 310          | 12.51                   | 4.177                  | 10.874                 | 0.00                       | 0.180                             | 2.67           | 0.80           | 1.00           | 0.0                     | 9.62                   | 25.64                    | 0.00                      | 1394       | 0              | 273                     | 26                     | 298           |
| 17                                                 | 290          | 12.34                   | 3.812                  | 10.874                 | 0.00                       | 0.175                             | 2.68           | 0.80           | 1.00           | 0.0                     | 9.32                   | 24.99                    | 0.00                      | 1470       | 0              | 262                     | 106                    | 368           |
| 16                                                 | 270          | 12.15                   | 4.177                  | 10.874                 | 0.00                       | 0.180                             | 2.67           | 0.80           | 1.00           | 0.0                     | 9.62                   | 25.64                    | 0.00                      | 1551       | 0              | 265                     | 227                    | 492           |
| 15                                                 | 250          | 11.96                   | 3.812                  | 10.874                 | 0.00                       | 0.175                             | 2.68           | 0.80           | 1.00           | 0.0                     | 9.32                   | 24.99                    | 0.00                      | 1738       | 0              | 254                     | 472                    | 726           |
| 14                                                 | 230          | 11.75                   | 4.177                  | 10.874                 | 0.00                       | 0.180                             | 2.67           | 0.80           | 1.00           | 0.0                     | 9.62                   | 25.64                    | 0.00                      | 1797       | 0              | 256                     | 536                    | 793           |
| 13                                                 | 210          | 11.53                   | 3.812                  | 10.874                 | 0.00                       | 0.175                             | 2.68           | 0.80           | 1.00           | 0.0                     | 9.32                   | 24.99                    | 0.00                      | 1781       | 0              | 245                     | 526                    | 771           |
| 12                                                 | 190          | 11.29                   | 13.643                 | 9.167                  | 0.00                       | 0.270                             | 2.38           | 0.80           | 1.00           | 0.0                     | 16.32                  | 38.85                    | 0.00                      | 2638       | 0              | 373                     | 555                    | 927           |
| 11                                                 | 170          | 11.03                   | 13.738                 | 9.167                  | 0.00                       | 0.271                             | 2.38           | 0.80           | 1.00           | 0.0                     | 16.40                  | 38.98                    | 0.00                      | 2654       | 0              | 365                     | 577                    | 942           |
| 10                                                 | 150          | 10.74                   | 13.643                 | 9.167                  | 0.00                       | 0.270                             | 2.38           | 0.80           | 1.00           | 0.0                     | 16.32                  | 38.85                    | 0.00                      | 2675       | 0              | 355                     | 603                    | 958           |
| 9                                                  | 130          | 10.42                   | 3.792                  | 11.695                 | 0.00                       | 0.184                             | 2.65           | 0.80           | 1.00           | 0.0                     | 9.80                   | 25.96                    | 0.00                      | 2041       | 0              | 230                     | 614                    | 844           |
| 8                                                  | 110          | 10.06                   | 4.160                  | 11.695                 | 0.00                       | 0.188                             | 2.64           | 0.80           | 1.00           | 0.0                     | 10.10                  | 26.61                    | 0.00                      | 2058       | 0              | 228                     | 593                    | 820           |
| 7                                                  | 90           | 9.64                    | 3.792                  | 11.695                 | 0.00                       | 0.184                             | 2.65           | 0.80           | 1.00           | 0.0                     | 9.80                   | 25.96                    | 0.00                      | 2047       | 0              | 213                     | 579                    | 791           |
| 6                                                  | 70           | 9.15                    | 3.792                  | 11.695                 | 0.00                       | 0.184                             | 2.65           | 0.80           | 1.00           | 0.0                     | 9.80                   | 25.96                    | 0.00                      | 2048       | 0              | 202                     | 549                    | 751           |
| 5                                                  | 50           | 8.52                    | 4.160                  | 11.695                 | 0.00                       | 0.188                             | 2.64           | 0.80           | 1.00           | 0.0                     | 10.10                  | 26.61                    | 0.00                      | 2064       | 0              | 193                     | 512                    | 704           |
| 4                                                  | 30           | 7.65                    | 3.792                  | 11.695                 | 0.00                       | 0.184                             | 2.65           | 0.80           | 1.00           | 0.0                     | 9.80                   | 25.96                    | 0.00                      | 2048       | 0              | 169                     | 460                    | 628           |
| 3                                                  | 14           | 6.62                    | 1.896                  | 7.021                  | 0.00                       | 0.177                             | 2.68           | 0.80           | 1.00           | 0.0                     | 5.57                   | 14.90                    | 0.00                      | 1211       | 0              | 84                      | 239                    | 322           |
| 2                                                  | 7            | 6.62                    | 1.264                  | 1.353                  | 0.00                       | 0.311                             | 2.27           | 0.80           | 1.00           | 0.0                     | 1.84                   | 4.18                     | 0.00                      | 260        | 0              | 24                      | 40                     | 63            |
| 1                                                  | 3            | 6.62                    | 3.625                  | 2.947                  | 0.00                       | 0.491                             | 1.91           | 0.80           | 1.00           | 0.0                     | 4.91                   | 9.38                     | 0.00                      | 881        | 0              | 53                      | 101                    | 154           |
| ** = Section Force Exceeds Solidity Ratio Criteria |              |                         |                        |                        |                            |                                   |                |                |                |                         |                        |                          |                           | Totals     | 33,087         | 0                       | 11,514                 |               |

1.0D + 1.0W Service 330°  
60 mph Wind with No Ice

| 1.0D + 1.0W Service 330°                           |              |                         |                        |                        |                            | Gust Response Factor (Gh):   |                |                |                |                         |                        | 0.85                     |                           |            |                |                         |                        |               |
|----------------------------------------------------|--------------|-------------------------|------------------------|------------------------|----------------------------|------------------------------|----------------|----------------|----------------|-------------------------|------------------------|--------------------------|---------------------------|------------|----------------|-------------------------|------------------------|---------------|
| 60 mph Wind with No Ice                            |              |                         |                        |                        |                            | Wind Importance Factor (Iw): |                |                |                |                         |                        | 1.00                     |                           |            |                |                         |                        |               |
| Section #                                          | Elev<br>(ft) | Q <sub>Z</sub><br>(psf) | A <sub>f</sub><br>(sf) | A <sub>r</sub><br>(sf) | Ice A <sub>r</sub><br>(sf) | e                            | C <sub>r</sub> | D <sub>r</sub> | D <sub>r</sub> | T <sub>iz</sub><br>(in) | A <sub>e</sub><br>(sf) | EPA <sub>a</sub><br>(sf) | EPA <sub>ai</sub><br>(sf) | Wt<br>(lb) | Ice Wt<br>(lb) | F <sub>st</sub><br>(lb) | F <sub>a</sub><br>(lb) | Force<br>(lb) |
| 20                                                 | 326          | 12.65                   | 1.271                  | 4.345                  | 0.00                       | 0.168                        | 2.71           | 0.85           | 1.00           | 0.0                     | 3.58                   | 9.70                     | 0.00                      | 539        | 0              | 104                     | 10                     | 115           |
| 19                                                 | 321          | 12.61                   | 1.271                  | 1.272                  | 0.00                       | 0.304                        | 2.29           | 0.85           | 1.00           | 0.0                     | 1.86                   | 4.25                     | 0.00                      | 193        | 0              | 46                      | 3                      | 48            |
| 18                                                 | 310          | 12.51                   | 4.177                  | 10.874                 | 0.00                       | 0.180                        | 2.67           | 0.85           | 1.00           | 0.0                     | 9.83                   | 26.20                    | 0.00                      | 1394       | 0              | 279                     | 26                     | 304           |
| 17                                                 | 290          | 12.34                   | 3.812                  | 10.874                 | 0.00                       | 0.175                        | 2.68           | 0.85           | 1.00           | 0.0                     | 9.51                   | 25.50                    | 0.00                      | 1470       | 0              | 267                     | 106                    | 374           |
| 16                                                 | 270          | 12.15                   | 4.177                  | 10.874                 | 0.00                       | 0.180                        | 2.67           | 0.85           | 1.00           | 0.0                     | 9.83                   | 26.20                    | 0.00                      | 1551       | 0              | 271                     | 227                    | 498           |
| 15                                                 | 250          | 11.96                   | 3.812                  | 10.874                 | 0.00                       | 0.175                        | 2.68           | 0.85           | 1.00           | 0.0                     | 9.51                   | 25.50                    | 0.00                      | 1738       | 0              | 259                     | 472                    | 731           |
| 14                                                 | 230          | 11.75                   | 4.177                  | 10.874                 | 0.00                       | 0.180                        | 2.67           | 0.85           | 1.00           | 0.0                     | 9.83                   | 26.20                    | 0.00                      | 1797       | 0              | 262                     | 536                    | 798           |
| 13                                                 | 210          | 11.53                   | 3.812                  | 10.874                 | 0.00                       | 0.175                        | 2.68           | 0.85           | 1.00           | 0.0                     | 9.51                   | 25.50                    | 0.00                      | 1781       | 0              | 250                     | 526                    | 776           |
| 12                                                 | 190          | 11.29                   | 13.643                 | 9.167                  | 0.00                       | 0.270                        | 2.38           | 0.85           | 1.00           | 0.0                     | 17.01                  | 40.47                    | 0.00                      | 2638       | 0              | 388                     | 555                    | 943           |
| 11                                                 | 170          | 11.03                   | 13.738                 | 9.167                  | 0.00                       | 0.271                        | 2.38           | 0.85           | 1.00           | 0.0                     | 17.09                  | 40.61                    | 0.00                      | 2654       | 0              | 381                     | 577                    | 957           |
| 10                                                 | 150          | 10.74                   | 13.643                 | 9.167                  | 0.00                       | 0.270                        | 2.38           | 0.85           | 1.00           | 0.0                     | 17.01                  | 40.47                    | 0.00                      | 2675       | 0              | 369                     | 603                    | 972           |
| 9                                                  | 130          | 10.42                   | 3.792                  | 11.695                 | 0.00                       | 0.184                        | 2.65           | 0.85           | 1.00           | 0.0                     | 9.99                   | 26.46                    | 0.00                      | 2041       | 0              | 234                     | 614                    | 849           |
| 8                                                  | 110          | 10.06                   | 4.160                  | 11.695                 | 0.00                       | 0.188                        | 2.64           | 0.85           | 1.00           | 0.0                     | 10.31                  | 27.16                    | 0.00                      | 2058       | 0              | 232                     | 593                    | 825           |
| 7                                                  | 90           | 9.64                    | 3.792                  | 11.695                 | 0.00                       | 0.184                        | 2.65           | 0.85           | 1.00           | 0.0                     | 9.99                   | 26.46                    | 0.00                      | 2047       | 0              | 217                     | 579                    | 796           |
| 6                                                  | 70           | 9.15                    | 3.792                  | 11.695                 | 0.00                       | 0.184                        | 2.65           | 0.85           | 1.00           | 0.0                     | 9.99                   | 26.46                    | 0.00                      | 2048       | 0              | 206                     | 549                    | 755           |
| 5                                                  | 50           | 8.52                    | 4.160                  | 11.695                 | 0.00                       | 0.188                        | 2.64           | 0.85           | 1.00           | 0.0                     | 10.31                  | 27.16                    | 0.00                      | 2064       | 0              | 197                     | 512                    | 708           |
| 4                                                  | 30           | 7.65                    | 3.792                  | 11.695                 | 0.00                       | 0.184                        | 2.65           | 0.85           | 1.00           | 0.0                     | 9.99                   | 26.46                    | 0.00                      | 2048       | 0              | 172                     | 460                    | 632           |
| 3                                                  | 14           | 6.62                    | 1.896                  | 7.021                  | 0.00                       | 0.177                        | 2.68           | 0.85           | 1.00           | 0.0                     | 5.66                   | 15.16                    | 0.00                      | 1211       | 0              | 85                      | 239                    | 324           |
| 2                                                  | 7            | 6.62                    | 1.264                  | 1.353                  | 0.00                       | 0.311                        | 2.27           | 0.85           | 1.00           | 0.0                     | 1.91                   | 4.32                     | 0.00                      | 260        | 0              | 24                      | 40                     | 64            |
| 1                                                  | 3            | 6.62                    | 3.625                  | 2.947                  | 0.00                       | 0.491                        | 1.91           | 0.85           | 1.00           | 0.0                     | 5.09                   | 9.72                     | 0.00                      | 881        | 0              | 55                      | 101                    | 156           |
| ** = Section Force Exceeds Solidity Ratio Criteria |              |                         |                        |                        |                            |                              |                |                |                |                         |                        |                          |                           | Totals     | 33,087         | 0                       | 11,625                 |               |

ASSET: 2543, Five Points  
CUSTOMER: T-MOBILE

CODE: ANSI/TIA-222-H  
PROJECT: 14910189\_C3\_03

EQUIVALENT LATERAL FORCE METHOD

|                                                                          |         |
|--------------------------------------------------------------------------|---------|
| Spectral Response Acceleration for Short Period ( $S_s$ ):               | 0.09    |
| Spectral Response Acceleration at 1.0 Second Period ( $S_1$ ):           | 0.05    |
| Long-Period Transition Period ( $T_L$ - Seconds):                        | 8       |
| Importance Factor ( $I_e$ ):                                             | 1.00    |
| Site Coefficient $F_a$ :                                                 | 1.60    |
| Site Coefficient $F_v$ :                                                 | 2.40    |
| Response Modification Coefficient (R):                                   | 3.00    |
| Design Spectral Response Acceleration at Short Period ( $S_{ds}$ ):      | 0.09    |
| Design Spectral Response Acceleration at 1.0 Second Period ( $S_{d1}$ ): | 0.08    |
| Seismic Response Coefficient ( $C_s$ ):                                  | 0.03    |
| Upper Limit $C_s$ :                                                      | 0.04    |
| Lower Limit $C_s$ :                                                      | 0.03    |
| Period based on Rayleigh Method (sec):                                   | 0.76    |
| Redundancy Factor ( $p$ ):                                               | 1.30    |
| Seismic Force Distribution Exponent ( $k$ ):                             | 1.13    |
| Total Unfactored Dead Load:                                              | 43.58 k |
| Seismic Base Shear (E):                                                  | 1.75 k  |

SEISMIC FORCES

1.2D + 1.0Ev + 1.0Eh

| Section/Appurtenance            | Height Above<br>Base (ft) | Weight<br>(lb) | $W_2$<br>(lb-ft) | $C_v$ | Horizontal<br>Force (lb) | Vertical<br>Force (lb) |
|---------------------------------|---------------------------|----------------|------------------|-------|--------------------------|------------------------|
| 20                              | 326.00                    | 539            | 375,920          | 0.024 | 42                       | 657                    |
| 19                              | 321.00                    | 193            | 132,231          | 0.008 | 15                       | 235                    |
| 18                              | 310.00                    | 1,394          | 918,586          | 0.058 | 102                      | 1,699                  |
| 17                              | 290.00                    | 1,470          | 898,279          | 0.057 | 100                      | 1,791                  |
| 16                              | 270.00                    | 1,551          | 874,222          | 0.056 | 97                       | 1,890                  |
| 15                              | 250.00                    | 1,738          | 897,582          | 0.057 | 100                      | 2,117                  |
| 14                              | 230.00                    | 1,797          | 844,842          | 0.054 | 94                       | 2,190                  |
| 13                              | 210.00                    | 1,781          | 755,135          | 0.048 | 84                       | 2,170                  |
| 12                              | 190.00                    | 2,638          | 998,801          | 0.064 | 111                      | 3,214                  |
| 11                              | 170.00                    | 2,654          | 886,313          | 0.056 | 99                       | 3,234                  |
| 10                              | 150.00                    | 2,675          | 775,184          | 0.049 | 86                       | 3,259                  |
| 9                               | 130.00                    | 2,041          | 503,089          | 0.032 | 56                       | 2,487                  |
| 8                               | 110.00                    | 2,058          | 419,848          | 0.027 | 47                       | 2,507                  |
| 7                               | 90.00                     | 2,047          | 332,877          | 0.021 | 37                       | 2,495                  |
| 6                               | 70.00                     | 2,048          | 250,532          | 0.016 | 28                       | 2,495                  |
| 5                               | 50.00                     | 2,064          | 172,604          | 0.011 | 19                       | 2,515                  |
| 4                               | 30.00                     | 2,048          | 96,055           | 0.006 | 11                       | 2,495                  |
| 3                               | 14.00                     | 1,211          | 23,990           | 0.002 | 3                        | 1,476                  |
| 2                               | 7.00                      | 260            | 2,350            | 0.000 | 0                        | 317                    |
| 1                               | 3.00                      | 881            | 3,055            | 0.000 | 0                        | 1,074                  |
| Generic Flat Side Arm           | 304.00                    | 188            | 120,847          | 0.008 | 13                       | 228                    |
| Ericsson Radio 4460 B25+B66     | 300.30                    | 327            | 207,857          | 0.013 | 23                       | 398                    |
| Generic Flat Side Arm           | 300.00                    | 188            | 119,049          | 0.008 | 13                       | 228                    |
| Ericsson Radio 4480 B71+B85     | 295.00                    | 279            | 173,809          | 0.011 | 19                       | 340                    |
| Ericsson AIR 6419 B41           | 295.00                    | 206            | 128,020          | 0.008 | 14                       | 250                    |
| Generic Round Sector Frame      | 295.00                    | 2,100          | 1,308,238        | 0.083 | 146                      | 2,559                  |
| Commscope FFVV-65C-R3-V1        | 295.00                    | 374            | 232,866          | 0.015 | 26                       | 455                    |
| Comblent CP00732                | 290.00                    | 8              | 4,888            | 0.000 | 1                        | 10                     |
| Generic Flat Stand-Off          | 290.00                    | 188            | 114,569          | 0.007 | 13                       | 228                    |
| Sinclair SE414-SWBPALDF(DXX)    | 290.00                    | 20             | 11,915           | 0.001 | 1                        | 24                     |
| RFS PAD6-65AC                   | 283.00                    | 185            | 109,960          | 0.007 | 12                       | 225                    |
| Generic 8' Dish w/ Radome       | 282.40                    | 304            | 180,257          | 0.012 | 20                       | 370                    |
| Sinclair SE414-SWBPALDF(DXX)    | 276.00                    | 39             | 22,533           | 0.001 | 3                        | 48                     |
| Generic Flat Side Arm           | 275.00                    | 188            | 107,888          | 0.007 | 12                       | 228                    |
| Ericsson 8843 Rev 2             | 258.00                    | 225            | 120,447          | 0.008 | 13                       | 274                    |
| Ericsson Radio 4449 - B13&B5    | 258.00                    | 210            | 112,418          | 0.007 | 13                       | 256                    |
| Commscope TD-850B-LTE78-43      | 258.00                    | 159            | 85,116           | 0.005 | 9                        | 194                    |
| Ericsson AIR 6449 B77           | 258.00                    | 245            | 131,047          | 0.008 | 15                       | 298                    |
| Raycap RCMDC-6627-PF-48         | 258.00                    | 64             | 34,261           | 0.002 | 4                        | 78                     |
| JMA Wireless MX06FIT865-02      | 258.00                    | 200            | 107,064          | 0.007 | 12                       | 244                    |
| JMA Wireless MX06FRO860-02      | 258.00                    | 102            | 54,603           | 0.004 | 6                        | 124                    |
| Generic Flat Light Sector Frame | 258.00                    | 2,400          | 1,284,772        | 0.082 | 143                      | 2,925                  |

|                                     |                   |            |         |          |                |     |
|-------------------------------------|-------------------|------------|---------|----------|----------------|-----|
| ASSET:                              | 2543, Five Points |            |         | CODE:    | ANSI/TIA-222-H |     |
| CUSTOMER:                           | T-MOBILE          |            |         | PROJECT: | 14910189_C3_03 |     |
|                                     |                   |            |         |          |                |     |
| Generic 6' Dish w/ Radome           | 242.90            | 250        | 125,003 | 0.008    | 14             | 305 |
| RFS PAD6-65AC                       | 240.00            | 185        | 91,253  | 0.006    | 10             | 225 |
| Andrew Microwaves PAR6-59 w/ Radome | 198.00            | 164        | 65,072  | 0.004    | 7              | 200 |
| Generic 6' Dish w/ Radome           | 187.00            | 250        | 92,983  | 0.006    | 10             | 305 |
| RFS PAD6-65AC                       | 186.00            | 185        | 68,391  | 0.004    | 8              | 225 |
| Generic Torque Arm                  | 168.00            | 500        | 164,735 | 0.010    | 18             | 609 |
| Generic 6' Dish w/ Radome           | 154.80            | 250        | 75,084  | 0.005    | 8              | 305 |
| RFS PAD6-65AC                       | 154.00            | 185        | 55,237  | 0.004    | 6              | 225 |
| Andrew VHLPX4-6W                    | 146.30            | 101        | 28,456  | 0.002    | 3              | 123 |
| Generic 12' Omni                    | 98.90             | 40         | 7,236   | 0.000    | 1              | 49  |
| Generic Round Side Arm              | 92.00             | 188        | 31,255  | 0.002    | 3              | 228 |
|                                     |                   |            |         |          |                |     |
| Totals                              | 43,580            | 15,738,624 | 1.000   | 1,752    | 53,105         |     |

ASSET: 2543, Five Points  
CUSTOMER: T-MOBILE

CODE: ANSI/TIA-222-H  
PROJECT: 14910189\_C3\_03

FORCE/STRESS SUMMARY

Section 1 – 0.0' to 6.00'

|                      | Pu<br>(kip) | Load Case        | Len<br>(ft)               | Bracing %               |                                        |           | F' <sub>y</sub><br>(ksi) | Φ <sub>c</sub> P <sub>n</sub><br>(kip) | Shear<br>ΦR <sub>nv</sub><br>(kip) | Bear<br>ΦR <sub>n</sub><br>(kip)                    | #<br>Bolt | #<br>Hole | Use<br>% | Controls |          |
|----------------------|-------------|------------------|---------------------------|-------------------------|----------------------------------------|-----------|--------------------------|----------------------------------------|------------------------------------|-----------------------------------------------------|-----------|-----------|----------|----------|----------|
| Member Compression   |             |                  |                           | X                       | Y                                      | Z         | KL/R                     |                                        |                                    |                                                     |           |           |          |          |          |
| L SOL - 2 3/4" SOLID | -81.98      | 1.2D + 1.0W 120° | 3.215                     | 100                     | 100                                    | 100       | 56.11                    | 50.00                                  | 212.32                             | 0.00                                                | 0.00      | 0         | 0        | 39       | Member X |
| D PL - PL 4 x 0.75"  | -5.02       | 1.2D + 1.0W 120° | 4.282                     | 50                      | 50                                     | 50        | 106.80                   | 50.00                                  | 75.28                              | 0.00                                                | 0.00      | 0         | 0        | 7        | Member Y |
|                      |             |                  |                           |                         |                                        |           |                          | Shear<br>ΦR <sub>nv</sub><br>(kip)     | Bear<br>ΦR <sub>n</sub><br>(kip)   | Blk Shear<br>Φ <sub>t</sub> P <sub>n</sub><br>(kip) | #<br>Bolt | #<br>Hole | Use<br>% | Controls |          |
| Member Tension       | Pu<br>(kip) | Load Case        | F <sub>y</sub><br>(ksi)   | F <sub>u</sub><br>(ksi) | Φ <sub>c</sub> P <sub>n</sub><br>(kip) |           |                          |                                        |                                    |                                                     |           |           |          |          |          |
| H SAE - 2X2X0.1875   | 12.27       | 1.2D + 1.0W N    | 36.0                      | 58                      | 23.17                                  | 0.00      | 0.00                     | 0.00                                   | 0                                  | 0                                                   | 53        | Member    |          |          |          |
| Max Splice Forces    | Pu<br>(kip) | Load Case        | ΦR <sub>nt</sub><br>(kip) | Use<br>%                | Num<br>Bolts                           | Bolt Type |                          |                                        |                                    |                                                     |           |           |          |          |          |

Section 2 – 6.0' to 8.00'

| Member Compression   | Pu<br>(kip)    | Load Case        | Len<br>(ft)   | Bracing %   |               |               | KL/R         | F'y<br>(ksi) | Φc Pn<br>(kip) | Shear        | Bear     | #<br>Bolt | #<br>Hole | Use<br>% | Controls |
|----------------------|----------------|------------------|---------------|-------------|---------------|---------------|--------------|--------------|----------------|--------------|----------|-----------|-----------|----------|----------|
|                      | X              |                  |               | Y           | Z             | ΦRnv<br>(kip) |              |              |                | ΦRn<br>(kip) |          |           |           |          |          |
| L SOL - 2 1/2" SOLID | -76.91         | 1.2D + 1.0W 120° | 1.75          | 100         | 100           | 100           | 33.60        | 50.00        | 203.44         | 0.00         | 0.00     | 0         | 0         | 38       | Member X |
| D SOL - 3/4" SOLID   | -0.01          | 1.2D + 1.0W 60°  | 4.366         | 50          | 50            | 50            | 125.74       | 36.00        | 6.23           | 0.00         | 0.00     | 0         | 0         | 0        | Member X |
| Member Tension       | Pu<br>(kip)    | Load Case        | Fy<br>(ksi)   | Fu<br>(ksi) | ΦcPn<br>(kip) | ΦRnv<br>(kip) | ΦRn<br>(kip) | Blk Shear    | #<br>Bolt      | #<br>Hole    | Use<br>% | Controls  |           |          |          |
|                      | Φt Pn<br>(kip) |                  |               |             |               |               |              |              |                |              |          |           |           |          |          |
| H SAE - 2X2X0.1875   | 6.50           | 1.2D + 1.0W 120° | 36.0          | 58          | 23.17         | 0.00          | 0.00         | 0.00         | 0              | 0            | 28       | Member    |           |          |          |
| D SOL - 3/4" SOLID   | 1.42           | 1.2D + 1.0W 90°  | 36.0          | 58          | 14.31         | 0.00          | 0.00         | 0.00         | 0              | 0            | 10       | Member    |           |          |          |
| Max Splice Forces    | Pu<br>(kip)    | Load Case        | ΦRnt<br>(kip) | Use<br>%    | Num<br>Bolts  | Bolt Type     |              |              |                |              |          |           |           |          |          |

Section 3 – 8.0' to 20.00'

|                    | Pu<br>(kip) | Load Case       | Len<br>(ft)               | Bracing %               |                                        |                                    | KL/R                                           | F <sub>y</sub><br>(ksi)                             | Φ <sub>c</sub> P <sub>n</sub><br>(kip) | Shear<br>ΦR <sub>nv</sub><br>(kip) | Bear<br>ΦR <sub>n</sub><br>(kip) | #<br>Bolt | #<br>Hole | Use<br>% | Controls |
|--------------------|-------------|-----------------|---------------------------|-------------------------|----------------------------------------|------------------------------------|------------------------------------------------|-----------------------------------------------------|----------------------------------------|------------------------------------|----------------------------------|-----------|-----------|----------|----------|
| Member Compression | -76.45      | 1.2D + 1.0W 90° | 3.917                     | 100                     | 100                                    | 100                                | 75.20                                          | 50.00                                               | 146.12                                 | 0.00                               | 0.00                             | 0         | 0         | 52       | Member X |
| D SOL - 3/4" SOLID | -3.16       | 1.2D + 1.0W N   | 5.598                     | 50                      | 50                                     | 50                                 | 161.23                                         | 36.00                                               | 3.84                                   | 0.00                               | 0.00                             | 0         | 0         | 0        | Member X |
|                    |             |                 |                           |                         |                                        |                                    |                                                |                                                     |                                        |                                    |                                  |           |           |          |          |
|                    | Pu<br>(kip) | Load Case       | F <sub>y</sub><br>(ksi)   | F <sub>u</sub><br>(ksi) | Φ <sub>c</sub> P <sub>n</sub><br>(kip) | Shear<br>ΦR <sub>nv</sub><br>(kip) | Bear<br>Φ <sub>c</sub> P <sub>n</sub><br>(kip) | Blk Shear<br>Φ <sub>t</sub> P <sub>n</sub><br>(kip) | #<br>Bolt                              | #<br>Hole                          | Use<br>%                         | Controls  |           |          |          |
| Member Tension     | 3.51        | 1.2D + 1.0W N   | 36.0                      | 58                      | 23.17                                  | 0.00                               | 0.00                                           | 0.00                                                | 0                                      | 0                                  | 15                               | Member    |           |          |          |
|                    |             |                 |                           |                         |                                        |                                    |                                                |                                                     |                                        |                                    |                                  |           |           |          |          |
| Max Splice Forces  | Pu<br>(kip) | Load Case       | ΦR <sub>nt</sub><br>(kip) | Use<br>%                | Num<br>Bolts                           | Bolt Type                          |                                                |                                                     |                                        |                                    |                                  |           |           |          |          |

Section 4 – 20.0' to 40.00'

|                      | Pu<br>(kip) | Load Case       | Len<br>(ft)               | Bracing %               |                                        |                                    | KL/R                             | F <sub>y</sub><br>(ksi)                             | Φ <sub>c</sub> P <sub>n</sub><br>(kip) | Shear<br>ΦR <sub>nv</sub><br>(kip) | Bear<br>ΦR <sub>n</sub><br>(kip) | #<br>Bolt | #<br>Hole | Use<br>% | Controls |
|----------------------|-------------|-----------------|---------------------------|-------------------------|----------------------------------------|------------------------------------|----------------------------------|-----------------------------------------------------|----------------------------------------|------------------------------------|----------------------------------|-----------|-----------|----------|----------|
| Member Compression   |             |                 |                           | X                       | Y                                      | Z                                  |                                  |                                                     |                                        |                                    |                                  |           |           |          |          |
| L SOL - 2 1/2" SOLID | -76.92      | 1.2D + 1.0W 90° | 3.9                       | 100                     | 100                                    | 100                                | 74.88                            | 50.00                                               | 146.64                                 | 0.00                               | 0.00                             | 0         | 0         | 52       | Member X |
| D SOL - 3/4" SOLID   | -2.27       | 1.2D + 1.0W N   | 5.587                     | 50                      | 50                                     | 50                                 | 160.89                           | 36.00                                               | 3.86                                   | 0.00                               | 0.00                             | 0         | 0         | 0        | Member X |
|                      |             |                 |                           |                         |                                        |                                    |                                  |                                                     |                                        |                                    |                                  |           |           |          |          |
|                      | Pu<br>(kip) | Load Case       | F <sub>y</sub><br>(ksi)   | F <sub>u</sub><br>(ksi) | Φ <sub>c</sub> P <sub>n</sub><br>(kip) | Shear<br>ΦR <sub>nv</sub><br>(kip) | Bear<br>ΦR <sub>n</sub><br>(kip) | Blk Shear<br>Φ <sub>t</sub> P <sub>n</sub><br>(kip) | #<br>Bolt                              | #<br>Hole                          | Use<br>%                         | Controls  |           |          |          |
| Member Tension       |             |                 |                           |                         |                                        |                                    |                                  |                                                     |                                        |                                    |                                  |           |           |          |          |
| H SAE - 2X2X0.1875   | 3.44        | 1.2D + 1.0W N   | 36.0                      | 58                      | 23.17                                  | 0.00                               | 0.00                             | 0.00                                                | 0                                      | 0                                  | 15                               | Member    |           |          |          |
|                      |             |                 |                           |                         |                                        |                                    |                                  |                                                     |                                        |                                    |                                  |           |           |          |          |
| Max Splice Forces    | Pu<br>(kip) | Load Case       | ΦR <sub>nt</sub><br>(kip) | Use<br>%                | Num<br>Bolts                           | Bolt Type                          |                                  |                                                     |                                        |                                    |                                  |           |           |          |          |

Section 5 – 40.0' to 60.00'

|                      | Pu<br>(kip) | Load Case        | Len<br>(ft) | Bracing % |     |     | KL/R  | F <sub>y</sub><br>(ksi) | Φ <sub>c</sub> P <sub>n</sub><br>(kip) | Shear                                | Bear                                | #<br>Bolt | #<br>Hole | Use<br>% | Controls |
|----------------------|-------------|------------------|-------------|-----------|-----|-----|-------|-------------------------|----------------------------------------|--------------------------------------|-------------------------------------|-----------|-----------|----------|----------|
|                      |             |                  |             | X         | Y   | Z   |       |                         |                                        | Φ <sub>R<sub>nv</sub></sub><br>(kip) | Φ <sub>R<sub>n</sub></sub><br>(kip) |           |           |          |          |
| Member Compression   |             |                  |             |           |     |     |       |                         |                                        |                                      |                                     |           |           |          |          |
| L SOL - 2 1/2" SOLID | -79.93      | 1.2D + 1.0W 240° | 3.9         | 100       | 100 | 100 | 74.88 | 50.00                   | 146.64                                 | 0.00                                 | 0.00                                | 0         | 0         | 55       | Member X |
| H SAE - 2X2X0.1875   | -1.42       | 1.2D + 1.0W 210° | 4           | 100       | 100 | 100 | 79.19 | 36.00                   | 20.66                                  | 0.00                                 | 0.00                                | 0         | 0         | 7        | Member Z |

ASSET: 2543, Five Points  
CUSTOMER: T-MOBILE

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FORCE/STRESS SUMMARY

Section 5 – 40.0' to 60.00'

| Member Compression | Pu          | Load Case        | Len<br>(ft)               | Bracing %               |                                        |                          | F <sub>y</sub><br>(ksi)  | Φ <sub>c</sub> P <sub>n</sub><br>(kip) | Shear     | Bear                     | #<br>Bolt | #<br>Hole | Use<br>% | Controls |                          |
|--------------------|-------------|------------------|---------------------------|-------------------------|----------------------------------------|--------------------------|--------------------------|----------------------------------------|-----------|--------------------------|-----------|-----------|----------|----------|--------------------------|
|                    | (kip)       |                  |                           | X                       | Y                                      | Z                        |                          |                                        | KL/R      | Φ <sub>nv</sub><br>(kip) |           |           |          |          | Φ <sub>Rn</sub><br>(kip) |
| D SOL - 3/4" SOLID | -1.12       | 1.2D + 1.0W N    | 5.587                     | 50                      | 50                                     | 50                       | 160.89                   | 36.00                                  | 3.86      | 0.00                     | 0.00      | 0         | 0        | 0        | Member X                 |
| Member Tension     | Pu          | Load Case        | F <sub>y</sub><br>(ksi)   | F <sub>u</sub><br>(ksi) | Φ <sub>c</sub> P <sub>n</sub><br>(kip) | Shear                    | Bear                     | Blk Shear                              | #<br>Bolt | #<br>Hole                | Use<br>%  | Controls  |          |          |                          |
|                    | (kip)       |                  |                           |                         |                                        | Φ <sub>nv</sub><br>(kip) | Φ <sub>Rn</sub><br>(kip) | Φ <sub>t</sub> P <sub>n</sub><br>(kip) |           |                          |           |           |          |          |                          |
| H SAE - 2X2X0.1875 | 3.20        | 1.2D + 1.0W N    | 36.0                      | 58                      | 23.17                                  | 0.00                     | 0.00                     | 0.00                                   | 0         | 0                        | 14        | Member    |          |          |                          |
| D SOL - 3/4" SOLID | 4.22        | 1.2D + 1.0W 210° | 36.0                      | 58                      | 14.31                                  | 0.00                     | 0.00                     | 0.00                                   | 0         | 0                        | 29        | Member    |          |          |                          |
| Max Splice Forces  | Pu<br>(kip) | Load Case        | Φ <sub>Rnt</sub><br>(kip) | Use<br>%                | Num<br>Bolts                           | Bolt Type                |                          |                                        |           |                          |           |           |          |          |                          |

Section 6 – 60.0' to 80.00'

| Member Compression   | Pu<br>(kip)                 | Load Case        | Len<br>(ft)                          | Bracing %                  |                                        |                                               | KL/R                                        | F <sub>y</sub><br>(ksi)                             | Φ <sub>c</sub> P <sub>n</sub><br>(kip) | Shear     | Bear     | #<br>Bolt | #<br>Hole | Use<br>% | Controls |
|----------------------|-----------------------------|------------------|--------------------------------------|----------------------------|----------------------------------------|-----------------------------------------------|---------------------------------------------|-----------------------------------------------------|----------------------------------------|-----------|----------|-----------|-----------|----------|----------|
|                      | Φ <sub>R<sub>nv</sub></sub> |                  |                                      | Φ <sub>R<sub>n</sub></sub> |                                        |                                               |                                             |                                                     |                                        |           |          |           |           |          |          |
|                      |                             |                  |                                      |                            |                                        |                                               |                                             |                                                     |                                        |           |          |           |           |          |          |
|                      |                             |                  |                                      |                            |                                        |                                               |                                             |                                                     |                                        |           |          |           |           |          |          |
|                      |                             |                  |                                      |                            |                                        |                                               |                                             |                                                     |                                        |           |          |           |           |          |          |
| L SOL - 2 1/2" SOLID | -71.34                      | 1.2D + 1.0W 210° | 3.9                                  | 100                        | 100                                    | 100                                           | 74.88                                       | 50.00                                               | 146.64                                 | 0.00      | 0.00     | 0         | 0         | 49       | Member X |
| H SAE - 2X2X0.1875   | -1.22                       | 1.2D + 1.0W 210° | 4                                    | 100                        | 100                                    | 100                                           | 79.19                                       | 36.00                                               | 20.66                                  | 0.00      | 0.00     | 0         | 0         | 6        | Member Z |
| D SOL - 3/4" SOLID   | -3.64                       | 1.2D + 1.0W N    | 5.587                                | 50                         | 50                                     | 50                                            | 160.89                                      | 36.00                                               | 3.86                                   | 0.00      | 0.00     | 0         | 0         | 0        | Member X |
| Member Tension       | Pu<br>(kip)                 | Load Case        | F <sub>y</sub><br>(ksi)              | F <sub>u</sub><br>(ksi)    | Φ <sub>c</sub> P <sub>n</sub><br>(kip) | Shear<br>Φ <sub>R<sub>nv</sub></sub><br>(kip) | Bear<br>Φ <sub>R<sub>n</sub></sub><br>(kip) | Blk Shear<br>Φ <sub>t</sub> P <sub>n</sub><br>(kip) | #<br>Bolt                              | #<br>Hole | Use<br>% | Controls  |           |          |          |
|                      |                             |                  |                                      |                            |                                        |                                               |                                             |                                                     |                                        |           |          |           |           |          |          |
|                      |                             |                  |                                      |                            |                                        |                                               |                                             |                                                     |                                        |           |          |           |           |          |          |
|                      |                             |                  |                                      |                            |                                        |                                               |                                             |                                                     |                                        |           |          |           |           |          |          |
|                      |                             |                  |                                      |                            |                                        |                                               |                                             |                                                     |                                        |           |          |           |           |          |          |
| H SAE - 2X2X0.1875   | 3.14                        | 1.2D + 1.0W N    | 36.0                                 | 58                         | 23.17                                  | 0.00                                          | 0.00                                        | 0.00                                                | 0                                      | 0         | 14       | Member    |           |          |          |
| D SOL - 3/4" SOLID   | 3.18                        | 1.2D + 1.0W 210° | 36.0                                 | 58                         | 14.31                                  | 0.00                                          | 0.00                                        | 0.00                                                | 0                                      | 0         | 22       | Member    |           |          |          |
| Max Splice Forces    | Pu<br>(kip)                 | Load Case        | Φ <sub>R<sub>nt</sub></sub><br>(kip) | Use<br>%                   | Num<br>Bolts                           | Bolt Type                                     |                                             |                                                     |                                        |           |          |           |           |          |          |
|                      |                             |                  |                                      |                            |                                        |                                               |                                             |                                                     |                                        |           |          |           |           |          |          |

Section 7 – 80.0' to 100.00'

| Member Compression   | Pu<br>(kip) | Load Case        | Len<br>(ft)               | Bracing %               |                                        |                                    | KL/R                             | F <sub>y</sub><br>(ksi)                             | Φ <sub>c</sub> P <sub>n</sub><br>(kip) | Shear<br>ΦR <sub>nv</sub><br>(kip) | Bear<br>ΦR <sub>n</sub><br>(kip) | #<br>Bolt | #<br>Hole | Use<br>% | Controls |
|----------------------|-------------|------------------|---------------------------|-------------------------|----------------------------------------|------------------------------------|----------------------------------|-----------------------------------------------------|----------------------------------------|------------------------------------|----------------------------------|-----------|-----------|----------|----------|
|                      | X           |                  |                           | Y                       | Z                                      | 74.88                              |                                  | 50.00                                               | 146.64                                 | 0.00                               | 0.00                             | 0         | 0         | 47       |          |
| L SOL - 2 1/2" SOLID | -69.61      | 1.2D + 1.0W 210° | 3.9                       | 100                     | 100                                    | 100                                | 74.88                            | 50.00                                               | 146.64                                 | 0.00                               | 0.00                             | 0         | 0         | 47       | Member X |
| D SOL - 3/4" SOLID   | -2.08       | 1.2D + 1.0W N    | 5.587                     | 50                      | 50                                     | 50                                 | 160.89                           | 36.00                                               | 3.86                                   | 0.00                               | 0.00                             | 0         | 0         | 0        | Member X |
| Member Tension       | Pu<br>(kip) | Load Case        | F <sub>y</sub><br>(ksi)   | F <sub>u</sub><br>(ksi) | Φ <sub>c</sub> P <sub>n</sub><br>(kip) | Shear<br>ΦR <sub>nv</sub><br>(kip) | Bear<br>ΦR <sub>n</sub><br>(kip) | Blk Shear<br>Φ <sub>t</sub> P <sub>n</sub><br>(kip) | #<br>Bolt                              | #<br>Hole                          | Use<br>%                         | Controls  |           |          |          |
|                      |             |                  |                           |                         |                                        |                                    |                                  |                                                     |                                        |                                    |                                  |           |           |          |          |
| H SAE - 2X2X0.1875   | 3.17        | 1.2D + 1.0W N    | 36.0                      | 58                      | 23.17                                  | 0.00                               | 0.00                             | 0.00                                                | 0                                      | 0                                  | 14                               | Member    |           |          |          |
| Max Splice Forces    | Pu<br>(kip) | Load Case        | ΦR <sub>nt</sub><br>(kip) | Use<br>%                | Num<br>Bolts                           | Bolt Type                          |                                  |                                                     |                                        |                                    |                                  |           |           |          |          |
|                      |             |                  |                           |                         |                                        |                                    |                                  |                                                     |                                        |                                    |                                  |           |           |          |          |

Section 8 – 100.0' to 120.00'

| Member Compression   | Pu<br>(kip) | Load Case        | Len<br>(ft)               | Bracing %               |                                        |                                    | KL/R                             | F <sub>y</sub><br>(ksi)                             | Φ <sub>c</sub> P <sub>n</sub><br>(kip) | Shear<br>ΦR <sub>nv</sub><br>(kip) | Bear<br>ΦR <sub>n</sub><br>(kip) | #<br>Bolt | #<br>Hole | Use<br>% | Controls |
|----------------------|-------------|------------------|---------------------------|-------------------------|----------------------------------------|------------------------------------|----------------------------------|-----------------------------------------------------|----------------------------------------|------------------------------------|----------------------------------|-----------|-----------|----------|----------|
|                      | X           |                  |                           | Y                       | Z                                      |                                    |                                  |                                                     |                                        |                                    |                                  |           |           |          |          |
| L SOL - 2 1/2" SOLID | -81.74      | 1.2D + 1.0W 240° | 3.9                       | 100                     | 100                                    | 100                                | 74.88                            | 50.00                                               | 146.64                                 | 0.00                               | 0.00                             | 0         | 0         | 56       | Member X |
| H SAE - 2X2X0.1875   | -3.52       | 1.2D + 1.0W 210° | 4                         | 100                     | 100                                    | 100                                | 79.19                            | 36.00                                               | 20.66                                  | 0.00                               | 0.00                             | 0         | 0         | 17       | Member Z |
| D SOL - 3/4" SOLID   | -2.13       | 1.2D + 1.0W N    | 5.587                     | 50                      | 50                                     | 50                                 | 160.89                           | 36.00                                               | 3.86                                   | 0.00                               | 0.00                             | 0         | 0         | 0        | Member X |
| Member Tension       | Pu<br>(kip) | Load Case        | F <sub>y</sub><br>(ksi)   | F <sub>u</sub><br>(ksi) | Φ <sub>c</sub> P <sub>n</sub><br>(kip) | Shear<br>ΦR <sub>nv</sub><br>(kip) | Bear<br>ΦR <sub>n</sub><br>(kip) | Blk Shear<br>Φ <sub>t</sub> P <sub>n</sub><br>(kip) | #<br>Bolt                              | #<br>Hole                          | Use<br>%                         | Controls  |           |          |          |
|                      |             |                  |                           |                         |                                        |                                    |                                  |                                                     |                                        |                                    |                                  |           |           |          |          |
| H SAE - 2X2X0.1875   | 3.02        | 1.2D + 1.0W N    | 36.0                      | 58                      | 23.17                                  | 0.00                               | 0.00                             | 0.00                                                | 0                                      | 0                                  | 13                               | Member    |           |          |          |
| D SOL - 3/4" SOLID   | 5.14        | 1.2D + 1.0W 210° | 36.0                      | 58                      | 14.31                                  | 0.00                               | 0.00                             | 0.00                                                | 0                                      | 0                                  | 36                               | Member    |           |          |          |
| Max Splice Forces    | Pu<br>(kip) | Load Case        | ΦR <sub>nt</sub><br>(kip) | Use<br>%                | Num<br>Bolts                           | Bolt Type                          |                                  |                                                     |                                        |                                    |                                  |           |           |          |          |
|                      |             |                  |                           |                         |                                        |                                    |                                  |                                                     |                                        |                                    |                                  |           |           |          |          |

Section 9 – 120.0' to 140.00'

| Member Compression | Pu    | Load Case | Len<br>(ft) | Bracing % |   |   | KL/R | F <sub>y</sub><br>(ksi) | Φ <sub>c</sub> P <sub>n</sub><br>(kip) | Shear                    | Bear                     | #<br>Bolt | #<br>Hole | Use<br>% | Controls |
|--------------------|-------|-----------|-------------|-----------|---|---|------|-------------------------|----------------------------------------|--------------------------|--------------------------|-----------|-----------|----------|----------|
|                    | (kip) |           |             | X         | Y | Z |      |                         |                                        | Φ <sub>nv</sub><br>(kip) | Φ <sub>Rn</sub><br>(kip) |           |           |          |          |

CUSTOMER: T-MOBILE

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## FORCE/STRESS SUMMARY

**Section 9 – 120.0' to 140.00'**

|                      | Pu<br>(kip) | Load Case        | Len<br>(ft) | Bracing % |     |     | F <sub>y</sub><br>(ksi) | Φ <sub>c</sub> P <sub>n</sub><br>(kip) | Shear<br>ΦR <sub>nv</sub><br>(kip) | Bear<br>ΦR <sub>n</sub><br>(kip) | #<br>Bolt | #<br>Hole | Use<br>% | Controls |          |
|----------------------|-------------|------------------|-------------|-----------|-----|-----|-------------------------|----------------------------------------|------------------------------------|----------------------------------|-----------|-----------|----------|----------|----------|
| Member Compression   |             |                  |             | X         | Y   | Z   | KL/R                    |                                        |                                    |                                  |           |           |          |          |          |
| L SOL - 2 1/2" SOLID | -65.56      | 1.2D + 1.0W 330° | 3.9         | 100       | 100 | 100 | 74.88                   | 50.00                                  | 146.64                             | 0.00                             | 0.00      | 0         | 0        | 45       | Member X |
| H SAE - 2X2X0.1875   | -1.34       | 1.2D + 1.0W 210° | 4           | 100       | 100 | 100 | 79.19                   | 36.00                                  | 20.66                              | 0.00                             | 0.00      | 0         | 0        | 7        | Member Z |
| D SOL - 3/4" SOLID   | -3.51       | 1.2D + 1.0W N    | 5.587       | 50        | 50  | 50  | 160.89                  | 36.00                                  | 3.86                               | 0.00                             | 0.00      | 0         | 0        | 0        | Member X |

|                    | Pu<br>(kip) | Load Case        | F <sub>y</sub><br>(ksi) | F <sub>u</sub><br>(ksi) | Φ <sub>c</sub> P <sub>n</sub><br>(kip) | Shear<br>ΦR <sub>nv</sub><br>(kip) | Bear<br>ΦR <sub>n</sub><br>(kip) | Blk Shear<br>Φ <sub>t</sub> P <sub>n</sub><br>(kip) | #<br>Bolt | #<br>Hole | Use<br>% | Controls |
|--------------------|-------------|------------------|-------------------------|-------------------------|----------------------------------------|------------------------------------|----------------------------------|-----------------------------------------------------|-----------|-----------|----------|----------|
| Member Tension     |             |                  |                         |                         |                                        |                                    |                                  |                                                     |           |           |          |          |
| H SAE - 2X2X0.1875 | 2.82        | 1.2D + 1.0W N    | 36.0                    | 58                      | 23.17                                  | 0.00                               | 0.00                             | 0.00                                                | 0         | 0         | 12       | Member   |
| D SOL - 3/4" SOLID | 3.62        | 1.2D + 1.0W 210° | 36.0                    | 58                      | 14.31                                  | 0.00                               | 0.00                             | 0.00                                                | 0         | 0         | 25       | Member   |

| Max Splice Forces | Pu<br>(kip) | Load Case | ΦR <sub>nt</sub><br>(kip) | Use<br>% | Num<br>Bolts | Bolt Type |
|-------------------|-------------|-----------|---------------------------|----------|--------------|-----------|
|                   |             |           |                           |          |              |           |

ASSET: 2543, Five Points  
CUSTOMER: T-MOBILE

CODE: ANSI/TIA-222-H  
PROJECT: 14910189\_C3\_03

FORCE/STRESS SUMMARY

Section 10 – 140.0' to 160.00'

| Member Compression   | Pu<br>(kip)                          | Load Case        | Len<br>(ft)                          | Bracing %                           |                                        |                                               | KL/R                                        | F' <sub>y</sub><br>(ksi)                            | Φ <sub>c</sub> P <sub>n</sub><br>(kip) | Shear     | Bear     | #<br>Bolt | #<br>Hole | Use<br>% | Controls |
|----------------------|--------------------------------------|------------------|--------------------------------------|-------------------------------------|----------------------------------------|-----------------------------------------------|---------------------------------------------|-----------------------------------------------------|----------------------------------------|-----------|----------|-----------|-----------|----------|----------|
|                      | Φ <sub>R<sub>nv</sub></sub><br>(kip) |                  |                                      | Φ <sub>R<sub>n</sub></sub><br>(kip) |                                        |                                               |                                             |                                                     |                                        |           |          |           |           |          |          |
| L SOL - 2 3/4" SOLID | -69.11                               | 1.2D + 1.0W N    | 3.9                                  | 100                                 | 100                                    | 100                                           | 68.07                                       | 50.00                                               | 190.47                                 | 0.00      | 0.00     | 0         | 0         | 36       | Member X |
| H SAE - 2.5X2.5X0.25 | -2.71                                | 1.2D + 1.0W 60°  | 4                                    | 100                                 | 100                                    | 100                                           | 63.54                                       | 36.00                                               | 37.40                                  | 0.00      | 0.00     | 0         | 0         | 7        | Member Z |
| D PL - PL 2 x 0.5"   | -3.06                                | 1.2D + 1.0W N    | 5.587                                | 50                                  | 50                                     | 50                                            | 209.06                                      | 36.00                                               | 6.55                                   | 0.00      | 0.00     | 0         | 0         | 0        | Member Y |
| Member Tension       | Pu<br>(kip)                          | Load Case        | F <sub>y</sub><br>(ksi)              | F <sub>u</sub><br>(ksi)             | Φ <sub>c</sub> P <sub>n</sub><br>(kip) | Shear<br>Φ <sub>R<sub>nv</sub></sub><br>(kip) | Bear<br>Φ <sub>R<sub>n</sub></sub><br>(kip) | Blk Shear<br>Φ <sub>t</sub> P <sub>n</sub><br>(kip) | #<br>Bolt                              | #<br>Hole | Use<br>% | Controls  |           |          |          |
|                      |                                      |                  |                                      |                                     |                                        |                                               |                                             |                                                     |                                        |           |          |           |           |          |          |
| H SAE - 2.5X2.5X0.25 | 5.35                                 | 1.2D + 1.0W 90°  | 36.0                                 | 58                                  | 38.56                                  | 0.00                                          | 0.00                                        | 0.00                                                | 0                                      | 0         | 14       | Member    |           |          |          |
| D PL - PL 2 x 0.5"   | 6.99                                 | 1.2D + 1.0W 240° | 36.0                                 | 58                                  | 32.40                                  | 0.00                                          | 0.00                                        | 0.00                                                | 0                                      | 0         | 22       | Member    |           |          |          |
| Max Splice Forces    | Pu<br>(kip)                          | Load Case        | Φ <sub>R<sub>nt</sub></sub><br>(kip) | Use<br>%                            | Num<br>Bolts                           | Bolt Type                                     |                                             |                                                     |                                        |           |          |           |           |          |          |

Section 11 – 160.0' to 180.00'

| Member Compression   | Pu<br>(kip) | Load Case        | Len<br>(ft)               | Bracing %               |                                        |                                    | KL/R                             | F' <sub>y</sub><br>(ksi)                            | Φ <sub>c</sub> P <sub>n</sub><br>(kip) | Shear<br>ΦR <sub>nv</sub><br>(kip) | Bear<br>ΦR <sub>n</sub><br>(kip) | #<br>Bolt | #<br>Hole | Use<br>% | Controls |
|----------------------|-------------|------------------|---------------------------|-------------------------|----------------------------------------|------------------------------------|----------------------------------|-----------------------------------------------------|----------------------------------------|------------------------------------|----------------------------------|-----------|-----------|----------|----------|
|                      | X           |                  |                           | Y                       | Z                                      |                                    |                                  |                                                     |                                        |                                    |                                  |           |           |          |          |
| L SOL - 2 3/4" SOLID | -87.35      | 1.2D + 1.0W 240° | 3.9                       | 100                     | 100                                    | 100                                | 68.07                            | 50.00                                               | 190.47                                 | 0.00                               | 0.00                             | 0         | 0         | 46       | Member X |
| H SAE - 2.5X2.5X0.25 | -7.68       | 1.2D + 1.0W 120° | 4                         | 100                     | 100                                    | 100                                | 63.54                            | 36.00                                               | 37.40                                  | 0.00                               | 0.00                             | 0         | 0         | 21       | Member Z |
| D PL - PL 2 x 0.5"   | -3.34       | 1.2D + 1.0W N    | 5.587                     | 50                      | 50                                     | 50                                 | 209.06                           | 36.00                                               | 6.55                                   | 0.00                               | 0.00                             | 0         | 0         | 0        | Member Y |
| Member Tension       | Pu<br>(kip) | Load Case        | F <sub>y</sub><br>(ksi)   | F <sub>u</sub><br>(ksi) | Φ <sub>c</sub> P <sub>n</sub><br>(kip) | Shear<br>ΦR <sub>nv</sub><br>(kip) | Bear<br>ΦR <sub>n</sub><br>(kip) | Blk Shear<br>Φ <sub>t</sub> P <sub>n</sub><br>(kip) | #<br>Bolt                              | #<br>Hole                          | Use<br>%                         | Controls  |           |          |          |
|                      |             |                  |                           |                         |                                        |                                    |                                  |                                                     |                                        |                                    |                                  |           |           |          |          |
| H SAE - 2.5X2.5X0.25 | 4.11        | 1.2D + 1.0W 330° | 36.0                      | 58                      | 38.56                                  | 0.00                               | 0.00                             | 0.00                                                | 0                                      | 0                                  | 11                               | Member    |           |          |          |
| D PL - PL 2 x 0.5"   | 10.82       | 1.2D + 1.0W 120° | 36.0                      | 58                      | 32.40                                  | 0.00                               | 0.00                             | 0.00                                                | 0                                      | 0                                  | 33                               | Member    |           |          |          |
| Max Splice Forces    | Pu<br>(kip) | Load Case        | ΦR <sub>nt</sub><br>(kip) | Use<br>%                | Num<br>Bolts                           | Bolt Type                          |                                  |                                                     |                                        |                                    |                                  |           |           |          |          |

Section 12 – 180.0' to 200.00'

| Member Compression   | Pu<br>(kip) | Load Case        | Len<br>(ft)               | Bracing %               |                                        |                                    | KL/R                             | F' <sub>y</sub><br>(ksi)                            | Φ <sub>c</sub> P <sub>n</sub><br>(kip) | Shear<br>ΦR <sub>nv</sub><br>(kip) | Bear<br>ΦR <sub>n</sub><br>(kip) | #<br>Bolt | #<br>Hole | Use<br>% | Controls |
|----------------------|-------------|------------------|---------------------------|-------------------------|----------------------------------------|------------------------------------|----------------------------------|-----------------------------------------------------|----------------------------------------|------------------------------------|----------------------------------|-----------|-----------|----------|----------|
|                      | X           |                  |                           | Y                       | Z                                      |                                    |                                  |                                                     |                                        |                                    |                                  |           |           |          |          |
| L SOL - 2 3/4" SOLID | -53.05      | 1.2D + 1.0W 120° | 3.9                       | 100                     | 100                                    | 100                                | 68.07                            | 50.00                                               | 190.47                                 | 0.00                               | 0.00                             | 0         | 0         | 28       | Member X |
| H SAE - 2.5X2.5X0.25 | -3.38       | 1.2D + 1.0W 300° | 4                         | 100                     | 100                                    | 100                                | 63.54                            | 36.00                                               | 37.40                                  | 0.00                               | 0.00                             | 0         | 0         | 9        | Member Z |
| D PL - PL 2 x 0.5"   | -5.46       | 1.2D + 1.0W N    | 5.587                     | 50                      | 50                                     | 50                                 | 209.06                           | 36.00                                               | 6.55                                   | 0.00                               | 0.00                             | 0         | 0         | 0        | Member Y |
| Member Tension       | Pu<br>(kip) | Load Case        | F <sub>y</sub><br>(ksi)   | F <sub>u</sub><br>(ksi) | Φ <sub>c</sub> P <sub>n</sub><br>(kip) | Shear<br>ΦR <sub>nv</sub><br>(kip) | Bear<br>ΦR <sub>n</sub><br>(kip) | Blk Shear<br>Φ <sub>t</sub> P <sub>n</sub><br>(kip) | #<br>Bolt                              | #<br>Hole                          | Use<br>%                         | Controls  |           |          |          |
|                      |             |                  |                           |                         |                                        |                                    |                                  |                                                     |                                        |                                    |                                  |           |           |          |          |
| H SAE - 2.5X2.5X0.25 | 3.96        | 1.2D + 1.0W 120° | 36.0                      | 58                      | 38.56                                  | 0.00                               | 0.00                             | 0.00                                                | 0                                      | 0                                  | 10                               | Member    |           |          |          |
| D PL - PL 2 x 0.5"   | 9.31        | 1.2D + 1.0W 120° | 36.0                      | 58                      | 32.40                                  | 0.00                               | 0.00                             | 0.00                                                | 0                                      | 0                                  | 29                               | Member    |           |          |          |
| Max Splice Forces    | Pu<br>(kip) | Load Case        | ΦR <sub>nt</sub><br>(kip) | Use<br>%                | Num<br>Bolts                           | Bolt Type                          |                                  |                                                     |                                        |                                    |                                  |           |           |          |          |

Section 13 – 200.0' to 220.00'

| Member Compression   | Pu<br>(kip) | Load Case        | Len<br>(ft)               | Bracing %               |                                        |                                    | KL/R                             | F <sub>y</sub><br>(ksi)                             | Φ <sub>c</sub> P <sub>n</sub><br>(kip) | Shear<br>ΦR <sub>nv</sub><br>(kip) | Bear<br>ΦR <sub>n</sub><br>(kip) | #<br>Bolt | #<br>Hole | Use<br>% | Controls |
|----------------------|-------------|------------------|---------------------------|-------------------------|----------------------------------------|------------------------------------|----------------------------------|-----------------------------------------------------|----------------------------------------|------------------------------------|----------------------------------|-----------|-----------|----------|----------|
|                      | X           |                  |                           | Y                       | Z                                      |                                    |                                  |                                                     |                                        |                                    |                                  |           |           |          |          |
| L SOL - 2 1/4" SOLID | -48.03      | 1.2D + 1.0W 120° | 3.9                       | 100                     | 100                                    | 100                                | 83.20                            | 50.00                                               | 107.86                                 | 0.00                               | 0.00                             | 0         | 0         | 45       | Member X |
| H SAE - 2X2X0.1875   | -3.63       | 1.2D + 1.0W 90°  | 4                         | 100                     | 100                                    | 100                                | 79.19                            | 36.00                                               | 20.66                                  | 0.00                               | 0.00                             | 0         | 0         | 18       | Member Z |
| D SOL - 3/4" SOLID   | -1.18       | 1.2D + 1.0W N    | 5.587                     | 50                      | 50                                     | 50                                 | 160.89                           | 36.00                                               | 3.86                                   | 0.00                               | 0.00                             | 0         | 0         | 0        | Member X |
| Member Tension       | Pu<br>(kip) | Load Case        | F <sub>y</sub><br>(ksi)   | F <sub>u</sub><br>(ksi) | Φ <sub>c</sub> P <sub>n</sub><br>(kip) | Shear<br>ΦR <sub>nv</sub><br>(kip) | Bear<br>ΦR <sub>n</sub><br>(kip) | Blk Shear<br>Φ <sub>t</sub> P <sub>n</sub><br>(kip) | #<br>Bolt                              | #<br>Hole                          | Use<br>%                         | Controls  |           |          |          |
|                      |             |                  |                           |                         |                                        |                                    |                                  |                                                     |                                        |                                    |                                  |           |           |          |          |
| H SAE - 2X2X0.1875   | 2.68        | 1.2D + 1.0W N    | 36.0                      | 58                      | 23.17                                  | 0.00                               | 0.00                             | 0.00                                                | 0                                      | 0                                  | 12                               | Member    |           |          |          |
| D SOL - 3/4" SOLID   | 5.59        | 1.2D + 1.0W 90°  | 36.0                      | 58                      | 14.31                                  | 0.00                               | 0.00                             | 0.00                                                | 0                                      | 0                                  | 39                               | Member    |           |          |          |
| Max Splice Forces    | Pu<br>(kip) | Load Case        | ΦR <sub>nt</sub><br>(kip) | Use<br>%                | Num<br>Bolts                           | Bolt Type                          |                                  |                                                     |                                        |                                    |                                  |           |           |          |          |

ASSET: 2543, Five Points  
CUSTOMER: T-MOBILE

CODE: ANSI/TIA-222-H  
PROJECT: 14910189\_C3\_03

FORCE/STRESS SUMMARY

Section 14 – 220.0' to 240.00'

| Member Compression   | Pu<br>(kip) | Load Case        | Len<br>(ft)               | Bracing %               |                                        |                                    | KL/R                             | F' <sub>y</sub><br>(ksi)                            | Φ <sub>c</sub> P <sub>n</sub><br>(kip) | Shear<br>ΦR <sub>nv</sub><br>(kip) | Bear<br>ΦR <sub>n</sub><br>(kip) | #<br>Bolt | #<br>Hole | Use<br>% | Controls |
|----------------------|-------------|------------------|---------------------------|-------------------------|----------------------------------------|------------------------------------|----------------------------------|-----------------------------------------------------|----------------------------------------|------------------------------------|----------------------------------|-----------|-----------|----------|----------|
|                      | X           |                  |                           | Y                       | Z                                      |                                    |                                  |                                                     |                                        |                                    |                                  |           |           |          |          |
| L SOL - 2 1/4" SOLID | -52.28      | 1.2D + 1.0W N    | 3.9                       | 100                     | 100                                    | 100                                | 83.20                            | 50.00                                               | 107.86                                 | 0.00                               | 0.00                             | 0         | 0         | 48       | Member X |
| H SAE - 2X2X0.1875   | -7.12       | 1.2D + 1.0W 120° | 4                         | 100                     | 100                                    | 100                                | 79.19                            | 36.00                                               | 20.66                                  | 0.00                               | 0.00                             | 0         | 0         | 34       | Member Z |
| D SOL - 3/4" SOLID   | -0.10       | 1.2D + 1.0W N    | 5.587                     | 50                      | 50                                     | 50                                 | 160.89                           | 36.00                                               | 3.86                                   | 0.00                               | 0.00                             | 0         | 0         | 0        | Member X |
| Member Tension       | Pu<br>(kip) | Load Case        | F <sub>y</sub><br>(ksi)   | F <sub>u</sub><br>(ksi) | Φ <sub>c</sub> P <sub>n</sub><br>(kip) | Shear<br>ΦR <sub>nv</sub><br>(kip) | Bear<br>ΦR <sub>n</sub><br>(kip) | Blk Shear<br>Φ <sub>t</sub> P <sub>n</sub><br>(kip) | #<br>Bolt                              | #<br>Hole                          | Use<br>%                         | Controls  |           |          |          |
|                      |             |                  |                           |                         |                                        |                                    |                                  |                                                     |                                        |                                    |                                  |           |           |          |          |
| H SAE - 2X2X0.1875   | 2.14        | 1.2D + 1.0W 120° | 36.0                      | 58                      | 23.17                                  | 0.00                               | 0.00                             | 0.00                                                | 0                                      | 0                                  | 9                                | Member    |           |          |          |
| D SOL - 3/4" SOLID   | 10.04       | 1.2D + 1.0W 120° | 36.0                      | 58                      | 14.31                                  | 0.00                               | 0.00                             | 0.00                                                | 0                                      | 0                                  | 70                               | Member    |           |          |          |
| Max Splice Forces    | Pu<br>(kip) | Load Case        | ΦR <sub>nt</sub><br>(kip) | Use<br>%                | Num<br>Bolts                           | Bolt Type                          |                                  |                                                     |                                        |                                    |                                  |           |           |          |          |
|                      |             |                  |                           |                         |                                        |                                    |                                  |                                                     |                                        |                                    |                                  |           |           |          |          |

Section 15 – 240.0' to 260.00'

| Member Compression   | Pu<br>(kip) | Load Case        | Len<br>(ft)               | Bracing %               |                                        |                                    | KL/R                             | F' <sub>y</sub><br>(ksi)                            | Φ <sub>c</sub> P <sub>n</sub><br>(kip) | Shear<br>ΦR <sub>nv</sub><br>(kip) | Bear<br>ΦR <sub>n</sub><br>(kip) | #<br>Bolt | #<br>Hole | Use<br>% | Controls |
|----------------------|-------------|------------------|---------------------------|-------------------------|----------------------------------------|------------------------------------|----------------------------------|-----------------------------------------------------|----------------------------------------|------------------------------------|----------------------------------|-----------|-----------|----------|----------|
|                      | X           |                  |                           | Y                       | Z                                      |                                    |                                  |                                                     |                                        |                                    |                                  |           |           |          |          |
| L SOL - 2 1/4" SOLID | -53.27      | 1.2D + 1.0W 90°  | 3.9                       | 100                     | 100                                    | 100                                | 83.20                            | 50.00                                               | 107.86                                 | 0.00                               | 0.00                             | 0         | 0         | 49       | Member X |
| H SAE - 2X2X0.1875   | -0.29       | 1.2D + 1.0W 210° | 4                         | 100                     | 100                                    | 100                                | 79.19                            | 36.00                                               | 20.66                                  | 0.00                               | 0.00                             | 0         | 0         | 1        | Member Z |
| D SOL - 3/4" SOLID   | -3.01       | 1.2D + 1.0W N    | 5.587                     | 50                      | 50                                     | 50                                 | 160.89                           | 36.00                                               | 3.86                                   | 0.00                               | 0.00                             | 0         | 0         | 0        | Member X |
| Member Tension       | Pu<br>(kip) | Load Case        | F <sub>y</sub><br>(ksi)   | F <sub>u</sub><br>(ksi) | Φ <sub>c</sub> P <sub>n</sub><br>(kip) | Shear<br>ΦR <sub>nv</sub><br>(kip) | Bear<br>ΦR <sub>n</sub><br>(kip) | Blk Shear<br>Φ <sub>t</sub> P <sub>n</sub><br>(kip) | #<br>Bolt                              | #<br>Hole                          | Use<br>%                         | Controls  |           |          |          |
|                      |             |                  |                           |                         |                                        |                                    |                                  |                                                     |                                        |                                    |                                  |           |           |          |          |
| L SOL - 2 1/4" SOLID | 6.43        | 1.2D + 1.0W 240° | 50.0                      | 65                      | 178.92                                 | 0.00                               | 0.00                             |                                                     | 0                                      | 0                                  | 4                                | Member    |           |          |          |
| H SAE - 2X2X0.1875   | 2.63        | 1.2D + 1.0W N    | 36.0                      | 58                      | 23.17                                  | 0.00                               | 0.00                             | 0.00                                                | 0                                      | 0                                  | 11                               | Member    |           |          |          |
| D SOL - 3/4" SOLID   | 1.40        | 1.2D + 1.0W 330° | 36.0                      | 58                      | 14.31                                  | 0.00                               | 0.00                             | 0.00                                                | 0                                      | 0                                  | 10                               | Member    |           |          |          |
| Max Splice Forces    | Pu<br>(kip) | Load Case        | ΦR <sub>nt</sub><br>(kip) | Use<br>%                | Num<br>Bolts                           | Bolt Type                          |                                  |                                                     |                                        |                                    |                                  |           |           |          |          |
|                      |             |                  |                           |                         |                                        |                                    |                                  |                                                     |                                        |                                    |                                  |           |           |          |          |

Section 16 – 260.0' to 280.00'

| Member Compression   | Pu<br>(kip)                            | Load Case        | Len<br>(ft)               | Bracing %               |                                        |                                    | KL/R                             | F' <sub>y</sub><br>(ksi) | Φ <sub>c</sub> P <sub>n</sub><br>(kip) | Shear                    | Bear     | #<br>Bolt | #<br>Hole | Use<br>% | Controls |
|----------------------|----------------------------------------|------------------|---------------------------|-------------------------|----------------------------------------|------------------------------------|----------------------------------|--------------------------|----------------------------------------|--------------------------|----------|-----------|-----------|----------|----------|
|                      | X                                      |                  |                           | Y                       | Z                                      | ΦR <sub>nv</sub><br>(kip)          |                                  |                          |                                        | ΦR <sub>n</sub><br>(kip) |          |           |           |          |          |
| L SOL - 2 1/4" SOLID | -50.54                                 | 1.2D + 1.0W 90°  | 3.9                       | 100                     | 100                                    | 100                                | 83.20                            | 50.00                    | 107.86                                 | 0.00                     | 0.00     | 0         | 0         | 47       | Member X |
| H SAE - 2X2X0.1875   | -5.38                                  | 1.2D + 1.0W 210° | 4                         | 100                     | 100                                    | 100                                | 79.19                            | 36.00                    | 20.66                                  | 0.00                     | 0.00     | 0         | 0         | 26       | Member Z |
| D SOL - 3/4" SOLID   | -1.77                                  | 1.2D + 1.0W N    | 5.587                     | 50                      | 50                                     | 50                                 | 160.89                           | 36.00                    | 3.86                                   | 0.00                     | 0.00     | 0         | 0         | 0        | Member X |
|                      |                                        |                  |                           |                         |                                        |                                    |                                  |                          |                                        |                          |          |           |           |          |          |
| Member Tension       | Pu<br>(kip)                            | Load Case        | F <sub>y</sub><br>(ksi)   | F <sub>u</sub><br>(ksi) | Φ <sub>c</sub> P <sub>n</sub><br>(kip) | Shear<br>ΦR <sub>nv</sub><br>(kip) | Bear<br>ΦR <sub>n</sub><br>(kip) | Blk Shear                | #<br>Bolt                              | #<br>Hole                | Use<br>% | Controls  |           |          |          |
|                      | Φ <sub>t</sub> P <sub>n</sub><br>(kip) |                  |                           |                         |                                        |                                    |                                  |                          |                                        |                          |          |           |           |          |          |
| L SOL - 2 1/4" SOLID | 12.75                                  | 1.2D + 1.0W 120° | 50.0                      | 65                      | 178.92                                 | 0.00                               | 0.00                             |                          | 0                                      | 0                        | 7        | Member    |           |          |          |
| H SAE - 2X2X0.1875   | 2.40                                   | 1.2D + 1.0W 240° | 36.0                      | 58                      | 23.17                                  | 0.00                               | 0.00                             | 0.00                     | 0                                      | 0                        | 10       | Member    |           |          |          |
| D SOL - 3/4" SOLID   | 7.71                                   | 1.2D + 1.0W 300° | 36.0                      | 58                      | 14.31                                  | 0.00                               | 0.00                             | 0.00                     | 0                                      | 0                        | 54       | Member    |           |          |          |
|                      |                                        |                  |                           |                         |                                        |                                    |                                  |                          |                                        |                          |          |           |           |          |          |
| Max Splice Forces    | Pu<br>(kip)                            | Load Case        | ΦR <sub>nt</sub><br>(kip) | Use<br>%                | Num<br>Bolts                           | Bolt Type                          |                                  |                          |                                        |                          |          |           |           |          |          |
|                      |                                        |                  |                           |                         |                                        |                                    |                                  |                          |                                        |                          |          |           |           |          |          |
| Bot Tension          | 6.43                                   | 1.2D + 1.0W 240° | 90.30                     | 7                       | 3                                      | 0.75" A325                         |                                  |                          |                                        |                          |          |           |           |          |          |

Section 17 – 280.0' to 300.00'

| Member Compression   | Pu<br>(kip) | Load Case        | Len<br>(ft) | Bracing % |     |                           | F' <sub>y</sub><br>(ksi) | Φ <sub>c</sub> P <sub>n</sub><br>(kip) | Shear                    | Bear | #<br>Bolt | #<br>Hole | Use<br>% | Controls |          |
|----------------------|-------------|------------------|-------------|-----------|-----|---------------------------|--------------------------|----------------------------------------|--------------------------|------|-----------|-----------|----------|----------|----------|
|                      | X           |                  |             | Y         | Z   | ΦR <sub>nv</sub><br>(kip) |                          |                                        | ΦR <sub>n</sub><br>(kip) |      |           |           |          |          |          |
| L SOL - 2 1/4" SOLID | -42.69      | 1.2D + 1.0W 300° | 3.9         | 100       | 100 | 100                       | 83.20                    | 50.00                                  | 107.86                   | 0.00 | 0.00      | 0         | 0        | 40       | Member X |
| H SAE - 2X2X0.1875   | -2.88       | 1.2D + 1.0W 210° | 4           | 100       | 100 | 100                       | 79.19                    | 36.00                                  | 20.66                    | 0.00 | 0.00      | 0         | 0        | 14       | Member Z |
| D SOL - 3/4" SOLID   | -2.56       | 1.2D + 1.0W N    | 5.587       | 50        | 50  | 50                        | 160.89                   | 36.00                                  | 3.86                     | 0.00 | 0.00      | 0         | 0        | 0        | Member X |

| Member Tension     | Pu<br>(kip)          | Load Case       | F <sub>y</sub><br>(ksi) | F <sub>u</sub><br>(ksi) | Φ <sub>c</sub> P <sub>n</sub><br>(kip) | Shear<br>ΦR <sub>nv</sub><br>(kip) | Bear<br>ΦR <sub>n</sub><br>(kip) | Blk Shear<br>Φ <sub>t</sub> P <sub>n</sub><br>(kip) | #<br>Bolt | #<br>Hole | Use<br>% | Controls |
|--------------------|----------------------|-----------------|-------------------------|-------------------------|----------------------------------------|------------------------------------|----------------------------------|-----------------------------------------------------|-----------|-----------|----------|----------|
|                    | L SOL - 2 1/4" SOLID |                 | 22.52                   | 1.2D + 1.0W N           | 50.0                                   | 65                                 | 178.92                           | 0.00                                                | 0.00      | 0.00      | 0        |          |
| H SAE - 2X2X0.1875 | 2.78                 | 1.2D + 1.0W 90° | 36.0                    | 58                      | 23.17                                  | 0.00                               | 0.00                             | 0.00                                                | 0         | 0         | 12       | Member   |

ASSET: 2543, Five Points  
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| FORCE/STRESS SUMMARY |                         |                  |                           |          |              |            |      |      |   |   |    |        |
|----------------------|-------------------------|------------------|---------------------------|----------|--------------|------------|------|------|---|---|----|--------|
| D SOL - 3/4" SOLID   | 6.70                    | 1.2D + 1.0W 60°  | 36.0                      | 58       | 14.31        | 0.00       | 0.00 | 0.00 | 0 | 0 | 47 | Member |
| Max Splice Forces    | P <sub>u</sub><br>(kip) | Load Case        | ΦR <sub>nt</sub><br>(kip) | Use<br>% | Num<br>Bolts | Bolt Type  |      |      |   |   |    |        |
| Bot Tension          | 12.75                   | 1.2D + 1.0W 120° | 90.30                     | 14       | 3            | 0.75" A325 |      |      |   |   |    |        |

Section 18 – 300.0' to 320.00'

| Member Compression   | Pu<br>(kip)    | Load Case        | Len<br>(ft)   | Bracing %   |               |                        | KL/R                 | F'y<br>(ksi) | Φc Pn<br>(kip) | Shear        | Bear       | #<br>Bolt | #<br>Hole | Use<br>% | Controls |
|----------------------|----------------|------------------|---------------|-------------|---------------|------------------------|----------------------|--------------|----------------|--------------|------------|-----------|-----------|----------|----------|
|                      | X              |                  |               | Y           | Z             | ΦRnv<br>(kip)          |                      |              |                | ΦRn<br>(kip) |            |           |           |          |          |
| L SOL - 2 1/4" SOLID | -36.62         | 1.2D + 1.0W 300° | 3.9           | 100         | 100           | 100                    | 83.20                | 50.00        | 107.86         | 0.00         | 0.00       | 0         | 0         | 34       | Member X |
| H SAE - 2X2X0.1875   | -0.45          | 1.2D + 1.0W 60°  | 4             | 100         | 100           | 100                    | 79.19                | 36.00        | 20.66          | 0.00         | 0.00       | 0         | 0         | 2        | Member Z |
| D SOL - 3/4" SOLID   | -0.99          | 1.2D + 1.0W N    | 5.587         | 50          | 50            | 50                     | 160.89               | 36.00        | 3.86           | 0.00         | 0.00       | 0         | 0         | 0        | Member X |
| Member Tension       | Pu<br>(kip)    | Load Case        | Fy<br>(ksi)   | Fu<br>(ksi) | ΦcPn<br>(kip) | Shear<br>ΦRnv<br>(kip) | Bear<br>ΦRn<br>(kip) | Blk Shear    | #<br>Bolt      | #<br>Hole    | Use<br>%   | Controls  |           |          |          |
|                      | Φt Pn<br>(kip) |                  |               |             |               |                        |                      |              |                |              |            |           |           |          |          |
| L SOL - 2 1/4" SOLID | 20.40          | 1.2D + 1.0W N    | 50.0          | 65          | 178.92        | 0.00                   | 0.00                 |              | 0              | 0            | 11         | Member    |           |          |          |
| H SAE - 2X2X0.1875   | 1.39           | 1.2D + 1.0W N    | 36.0          | 58          | 23.17         | 0.00                   | 0.00                 | 0.00         | 0              | 0            | 6          | Member    |           |          |          |
| D SOL - 3/4" SOLID   | 2.18           | 1.2D + 1.0W 330° | 36.0          | 58          | 14.31         | 0.00                   | 0.00                 | 0.00         | 0              | 0            | 15         | Member    |           |          |          |
| Max Splice Forces    | Pu<br>(kip)    | Load Case        | ΦRnt<br>(kip) | Use<br>%    | Num<br>Bolts  | Bolt Type              |                      |              |                |              |            |           |           |          |          |
| Bot Tension          | 20.24          |                  |               |             |               |                        | 1.2D + 1.0W N        | 90.30        | 22             | 3            | 0.75" A325 |           |           |          |          |

Section 19 – 320.0' to 322.00'

| Member Compression   | Pu<br>(kip)   | Load Case        | Len<br>(ft) | Bracing %    |     |     | KL/R   | F'y<br>(ksi) | Φc Pn<br>(kip) | Shear | Bear | #<br>Bolt | #<br>Hole | Use<br>% | Controls |
|----------------------|---------------|------------------|-------------|--------------|-----|-----|--------|--------------|----------------|-------|------|-----------|-----------|----------|----------|
|                      | ΦRnv<br>(kip) |                  |             | ΦRn<br>(kip) |     |     |        |              |                |       |      |           |           |          |          |
| L SOL - 2 1/4" SOLID | -1.51         | 1.2D + 1.0W 120° | 0.25        | 100          | 100 | 100 | 5.33   | 50.00        | 178.55         | 0.00  | 0.00 | 0         | 0         | 1        | Member X |
| H SAE - 2X2X0.1875   | -0.16         | 1.2D + 1.0W 120° | 4           | 100          | 100 | 100 | 79.19  | 36.00        | 20.66          | 0.00  | 0.00 | 0         | 0         | 1        | Member Z |
| D SOL - 3/4" SOLID   | -0.17         | 1.2D + 1.0W N    | 4.366       | 50           | 50  | 50  | 125.74 | 36.00        | 6.23           | 0.00  | 0.00 | 0         | 0         | 0        | Member X |

| Member Tension       | Pu<br>(kip)   | Load Case        | Fy<br>(ksi) | Fu<br>(ksi) | ΦcPn<br>(kip) | Shear        | Bear           | Blk Shear | #<br>Bolt | #<br>Hole | Use<br>% | Controls |
|----------------------|---------------|------------------|-------------|-------------|---------------|--------------|----------------|-----------|-----------|-----------|----------|----------|
|                      | ΦRnv<br>(kip) |                  |             |             |               | ΦRn<br>(kip) | Φt Pn<br>(kip) |           |           |           |          |          |
| L SOL - 2 1/4" SOLID | 0.85          | 1.2D + 1.0W 60°  | 50.0        | 65          | 178.92        | 0.00         | 0.00           |           | 0         | 0         | 0        | Member   |
| H SAE - 2X2X0.1875   | 0.50          | 1.2D + 1.0W 120° | 36.0        | 58          | 23.17         | 0.00         | 0.00           | 0.00      | 0         | 0         | 2        | Member   |
| D SOL - 3/4" SOLID   | 0.27          | 1.2D + 1.0W 90°  | 36.0        | 58          | 14.31         | 0.00         | 0.00           | 0.00      | 0         | 0         | 2        | Member   |

| Max Splice Forces | Pu<br>(kip) | Load Case       | ΦRnt<br>(kip) | Use<br>% | Num<br>Bolts | Bolt Type  |
|-------------------|-------------|-----------------|---------------|----------|--------------|------------|
|                   |             |                 |               |          |              |            |
| Bot Tension       | 0.77        | 1.2D + 1.0W 60° | 90.30         | 1        | 3            | 0.75" A325 |

Section 20 – 322.0' to 330.00'

| Member Compression   | Pu<br>(kip)   | Load Case        | Len<br>(ft)   | Bracing %    |               |              | KL/R           | F'y<br>(ksi) | Φc Pn<br>(kip) | Shear     | Bear     | #<br>Bolt | #<br>Hole | Use<br>% | Controls |
|----------------------|---------------|------------------|---------------|--------------|---------------|--------------|----------------|--------------|----------------|-----------|----------|-----------|-----------|----------|----------|
|                      | ΦRnv<br>(kip) |                  |               | ΦRn<br>(kip) |               |              |                |              |                |           |          |           |           |          |          |
|                      | X             |                  |               | Y            | Z             |              |                |              |                |           |          |           |           |          |          |
| L SOL - 2 1/4" SOLID | -0.80         | 1.2D + 1.0W 120° | 3.875         | 100          | 100           | 100          | 82.67          | 50.00        | 108.56         | 0.00      | 0.00     | 0         | 0         | 1        | Member X |
| H SAE - 2X2X0.1875   | -0.05         | 1.2D + 1.0W 60°  | 4             | 100          | 100           | 100          | 79.19          | 36.00        | 20.66          | 0.00      | 0.00     | 0         | 0         | 0        | Member Z |
| D SOL - 3/4" SOLID   | -0.21         | 1.2D + 1.0W N    | 5.569         | 50           | 50            | 50           | 160.39         | 36.00        | 3.88           | 0.00      | 0.00     | 0         | 0         | 0        | Member X |
| Member Tension       | Pu<br>(kip)   | Load Case        | Fy<br>(ksi)   | Fu<br>(ksi)  | ΦcPn<br>(kip) | Shear        | Bear           | Blk Shear    | #<br>Bolt      | #<br>Hole | Use<br>% | Controls  |           |          |          |
|                      | ΦRnv<br>(kip) |                  |               |              |               | ΦRn<br>(kip) | Φt Pn<br>(kip) |              |                |           |          |           |           |          |          |
|                      |               |                  |               |              |               |              |                |              |                |           |          |           |           |          |          |
| L SOL - 2 1/4" SOLID | 0.39          | 1.2D + 1.0W 60°  | 50.0          | 65           | 178.92        | 0.00         | 0.00           |              | 0              | 0         | 0        | Member    |           |          |          |
| H SAE - 2X2X0.1875   | 0.05          | 1.2D + 1.0W 120° | 36.0          | 58           | 23.17         | 0.00         | 0.00           | 0.00         | 0              | 0         | 0        | Member    |           |          |          |
| D SOL - 3/4" SOLID   | 0.18          | 1.2D + 1.0W 90°  | 36.0          | 58           | 14.31         | 0.00         | 0.00           | 0.00         | 0              | 0         | 1        | Member    |           |          |          |
| Max Splice Forces    | Pu<br>(kip)   | Load Case        | ΦRnt<br>(kip) | Use<br>%     | Num<br>Bolts  | Bolt Type    |                |              |                |           |          |           |           |          |          |

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| DETAILED CABLE FORCES |                |         |             |            |                         |                       |         |
|-----------------------|----------------|---------|-------------|------------|-------------------------|-----------------------|---------|
| Load Case             | Elevation (ft) | Cable   | Anchor Node | Tower Node | Available Tension (kip) | Applied Tension (kip) | Use (%) |
| 1.2D + 1.0W Normal    | 55.85          | 3/4 EHS | A1          | 21         | 34.98                   | 1.46                  | 4       |
|                       |                | 3/4 EHS | A1b         | 21a        | 34.98                   | 10.52                 | 30      |
|                       |                | 3/4 EHS | A1a         | 21b        | 34.98                   | 10.52                 | 30      |
|                       | 111.95         | 3/4 EHS | A1          | 41         | 34.98                   | 0.58                  | 2       |
|                       |                | 3/4 EHS | A1b         | 41a        | 34.98                   | 12.65                 | 36      |
|                       |                | 3/4 EHS | A1a         | 41b        | 34.98                   | 12.65                 | 36      |
|                       | 168.05         | 3/4 EHS | A1          | T3         | 34.98                   | 0.4                   | 1       |
|                       |                | 3/4 EHS | A1b         | T3         | 34.98                   | 13.68                 | 39      |
|                       |                | 3/4 EHS | A1b         | T3a        | 34.98                   | 13.62                 | 39      |
|                       |                | 3/4 EHS | A1a         | T3a        | 34.98                   | 13.66                 | 39      |
|                       |                | 3/4 EHS | A1a         | T3b        | 34.98                   | 13.65                 | 39      |
|                       |                | 3/4 EHS | A1          | T3b        | 34.98                   | 0.4                   | 1       |
|                       | 224.15         | 1 EHS   | A1          | 81         | 62.7                    | 1.25                  | 2       |
|                       |                | 1 EHS   | A1b         | 81a        | 62.7                    | 24.88                 | 40      |
|                       |                | 1 EHS   | A1a         | 81b        | 62.7                    | 24.88                 | 40      |
|                       | 271.95         | 1 EHS   | A1          | 97         | 62.7                    | 2.33                  | 4       |
|                       |                | 1 EHS   | A1b         | 97a        | 62.7                    | 24.54                 | 39      |
|                       |                | 1 EHS   | A1a         | 97b        | 62.7                    | 24.54                 | 39      |
|                       | 319.75         | 7/8 EHS | A1          | 113        | 47.82                   | 3.48                  | 7       |
|                       |                | 7/8 EHS | A1b         | 113a       | 47.82                   | 17.53                 | 37      |
|                       |                | 7/8 EHS | A1a         | 113b       | 47.82                   | 17.53                 | 37      |
| 1.2D + 1.0W 60°       | 55.85          | 3/4 EHS | A1          | 21         | 34.98                   | 4.08                  | 12      |
|                       |                | 3/4 EHS | A1b         | 21a        | 34.98                   | 4.05                  | 12      |
|                       |                | 3/4 EHS | A1a         | 21b        | 34.98                   | 12.72                 | 36      |
|                       | 111.95         | 3/4 EHS | A1          | 41         | 34.98                   | 3.76                  | 11      |
|                       |                | 3/4 EHS | A1b         | 41a        | 34.98                   | 3.7                   | 11      |
|                       |                | 3/4 EHS | A1a         | 41b        | 34.98                   | 15.72                 | 45      |
|                       | 168.05         | 3/4 EHS | A1          | T3         | 34.98                   | 4.53                  | 13      |
|                       |                | 3/4 EHS | A1b         | T3         | 34.98                   | 3.83                  | 11      |
|                       |                | 3/4 EHS | A1b         | T3a        | 34.98                   | 4.33                  | 12      |
|                       |                | 3/4 EHS | A1a         | T3a        | 34.98                   | 15.35                 | 44      |
|                       |                | 3/4 EHS | A1a         | T3b        | 34.98                   | 17.85                 | 51      |
|                       |                | 3/4 EHS | A1          | T3b        | 34.98                   | 3.74                  | 11      |
|                       | 224.15         | 1 EHS   | A1          | 81         | 62.7                    | 6.7                   | 11      |
|                       |                | 1 EHS   | A1b         | 81a        | 62.7                    | 6.7                   | 11      |
|                       |                | 1 EHS   | A1a         | 81b        | 62.7                    | 30.55                 | 49      |
|                       | 271.95         | 1 EHS   | A1          | 97         | 62.7                    | 7.64                  | 12      |
|                       |                | 1 EHS   | A1b         | 97a        | 62.7                    | 7.7                   | 12      |
|                       |                | 1 EHS   | A1a         | 97b        | 62.7                    | 30.44                 | 49      |
|                       | 319.75         | 7/8 EHS | A1          | 113        | 47.82                   | 7.85                  | 16      |
|                       |                | 7/8 EHS | A1b         | 113a       | 47.82                   | 7.94                  | 17      |
|                       |                | 7/8 EHS | A1a         | 113b       | 47.82                   | 20.69                 | 43      |
| 1.2D + 1.0W 90°       | 55.85          | 3/4 EHS | A1          | 21         | 34.98                   | 7.21                  | 21      |
|                       |                | 3/4 EHS | A1b         | 21a        | 34.98                   | 1.85                  | 5       |
|                       |                | 3/4 EHS | A1a         | 21b        | 34.98                   | 12.18                 | 35      |
|                       | 111.95         | 3/4 EHS | A1          | 41         | 34.98                   | 8.13                  | 23      |
|                       |                | 3/4 EHS | A1b         | 41a        | 34.98                   | 1.24                  | 4       |
|                       |                | 3/4 EHS | A1a         | 41b        | 34.98                   | 15.08                 | 43      |
|                       | 168.05         | 3/4 EHS | A1          | T3         | 34.98                   | 10.03                 | 29      |
|                       |                | 3/4 EHS | A1b         | T3         | 34.98                   | 1.45                  | 4       |
|                       |                | 3/4 EHS | A1b         | T3a        | 34.98                   | 1.48                  | 4       |
|                       |                | 3/4 EHS | A1a         | T3a        | 34.98                   | 14.87                 | 43      |
|                       |                | 3/4 EHS | A1a         | T3b        | 34.98                   | 17.55                 | 50      |
|                       |                | 3/4 EHS | A1          | T3b        | 34.98                   | 8.11                  | 23      |
|                       | 224.15         | 1 EHS   | A1          | 81         | 62.7                    | 15.8                  | 25      |
|                       |                | 1 EHS   | A1b         | 81a        | 62.7                    | 2.66                  | 4       |
|                       |                | 1 EHS   | A1a         | 81b        | 62.7                    | 29.74                 | 47      |
|                       | 271.95         | 1 EHS   | A1          | 97         | 62.7                    | 15.91                 | 25      |
|                       |                | 1 EHS   | A1b         | 97a        | 62.7                    | 3.62                  | 6       |

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| DETAILED CABLE FORCES |                |         |             |            |                         |                       |         |
|-----------------------|----------------|---------|-------------|------------|-------------------------|-----------------------|---------|
| Load Case             | Elevation (ft) | Cable   | Anchor Node | Tower Node | Available Tension (kip) | Applied Tension (kip) | Use (%) |
| 1.2D + 1.0W 120°      | 319.75         | 1 EHS   | A1a         | 97b        | 62.7                    | 29.51                 | 47      |
|                       |                | 7/8 EHS | A1          | 113        | 47.82                   | 12.9                  | 27      |
|                       |                | 7/8 EHS | A1b         | 113a       | 47.82                   | 4.59                  | 10      |
|                       |                | 7/8 EHS | A1a         | 113b       | 47.82                   | 20.1                  | 42      |
|                       | 55.85          | 3/4 EHS | A1          | 21         | 34.98                   | 10.53                 | 30      |
|                       |                | 3/4 EHS | A1b         | 21a        | 34.98                   | 1.46                  | 4       |
|                       |                | 3/4 EHS | A1a         | 21b        | 34.98                   | 10.51                 | 30      |
|                       |                | 3/4 EHS | A1          | 41         | 34.98                   | 12.7                  | 36      |
|                       | 111.95         | 3/4 EHS | A1b         | 41a        | 34.98                   | 0.58                  | 2       |
|                       |                | 3/4 EHS | A1a         | 41b        | 34.98                   | 12.61                 | 36      |
| 1.2D + 1.0W 180°      | 168.05         | 3/4 EHS | A1          | T3         | 34.98                   | 14.67                 | 42      |
|                       |                | 3/4 EHS | A1b         | T3         | 34.98                   | 0.39                  | 1       |
|                       |                | 3/4 EHS | A1a         | T3a        | 34.98                   | 12.73                 | 36      |
|                       |                | 3/4 EHS | A1b         | T3a        | 34.98                   | 0.41                  | 1       |
|                       | 224.15         | 3/4 EHS | A1          | T3b        | 34.98                   | 12.7                  | 36      |
|                       |                | 3/4 EHS | A1a         | T3b        | 34.98                   | 14.65                 | 42      |
|                       |                | 1 EHS   | A1          | 81         | 62.7                    | 24.85                 | 40      |
|                       |                | 1 EHS   | A1b         | 81a        | 62.7                    | 1.26                  | 2       |
|                       | 271.95         | 1 EHS   | A1a         | 81b        | 62.7                    | 24.83                 | 40      |
|                       |                | 1 EHS   | A1          | 97         | 62.7                    | 24.51                 | 39      |
|                       |                | 1 EHS   | A1b         | 97a        | 62.7                    | 2.33                  | 4       |
|                       |                | 1 EHS   | A1a         | 97b        | 62.7                    | 24.5                  | 39      |
|                       | 319.75         | 7/8 EHS | A1          | 113        | 47.82                   | 17.49                 | 37      |
|                       |                | 7/8 EHS | A1b         | 113a       | 47.82                   | 3.48                  | 7       |
|                       |                | 7/8 EHS | A1a         | 113b       | 47.82                   | 17.59                 | 37      |
|                       | 55.85          | 3/4 EHS | A1          | 21         | 34.98                   | 12.73                 | 36      |
|                       |                | 3/4 EHS | A1b         | 21a        | 34.98                   | 4.06                  | 12      |
|                       |                | 3/4 EHS | A1a         | 21b        | 34.98                   | 4.06                  | 12      |
|                       | 111.95         | 3/4 EHS | A1          | 41         | 34.98                   | 15.74                 | 45      |
|                       |                | 3/4 EHS | A1b         | 41a        | 34.98                   | 3.72                  | 11      |
|                       |                | 3/4 EHS | A1a         | 41b        | 34.98                   | 3.72                  | 11      |
|                       | 168.05         | 3/4 EHS | A1          | T3         | 34.98                   | 16.58                 | 47      |
|                       |                | 3/4 EHS | A1b         | T3         | 34.98                   | 4.01                  | 11      |
|                       |                | 3/4 EHS | A1b         | T3a        | 34.98                   | 4.16                  | 12      |
|                       |                | 3/4 EHS | A1a         | T3a        | 34.98                   | 4.14                  | 12      |
| 1.2D + 1.0W 210°      | 224.15         | 3/4 EHS | A1          | T3b        | 34.98                   | 16.54                 | 47      |
|                       |                | 3/4 EHS | A1a         | T3b        | 34.98                   | 4.02                  | 11      |
|                       |                | 1 EHS   | A1          | 81         | 62.7                    | 30.5                  | 49      |
|                       |                | 1 EHS   | A1b         | 81a        | 62.7                    | 6.71                  | 11      |
|                       | 271.95         | 1 EHS   | A1a         | 81b        | 62.7                    | 6.71                  | 11      |
|                       |                | 1 EHS   | A1          | 97         | 62.7                    | 30.48                 | 49      |
|                       |                | 1 EHS   | A1b         | 97a        | 62.7                    | 7.66                  | 12      |
|                       |                | 1 EHS   | A1a         | 97b        | 62.7                    | 7.66                  | 12      |
|                       | 319.75         | 7/8 EHS | A1          | 113        | 47.82                   | 20.63                 | 43      |
|                       |                | 7/8 EHS | A1b         | 113a       | 47.82                   | 7.89                  | 17      |
|                       |                | 7/8 EHS | A1a         | 113b       | 47.82                   | 7.9                   | 17      |
|                       | 55.85          | 3/4 EHS | A1          | 21         | 34.98                   | 12.17                 | 35      |
|                       |                | 3/4 EHS | A1b         | 21a        | 34.98                   | 7.19                  | 21      |
|                       |                | 3/4 EHS | A1a         | 21b        | 34.98                   | 1.86                  | 5       |
|                       | 111.95         | 3/4 EHS | A1          | 41         | 34.98                   | 15.11                 | 43      |
|                       |                | 3/4 EHS | A1b         | 41a        | 34.98                   | 8.07                  | 23      |
|                       |                | 3/4 EHS | A1a         | 41b        | 34.98                   | 1.25                  | 4       |
|                       | 168.05         | 3/4 EHS | A1          | T3         | 34.98                   | 15.7                  | 45      |
|                       |                | 3/4 EHS | A1b         | T3         | 34.98                   | 9.34                  | 27      |
|                       |                | 3/4 EHS | A1a         | T3a        | 34.98                   | 1.56                  | 4       |
|                       |                | 3/4 EHS | A1b         | T3a        | 34.98                   | 8.63                  | 25      |
|                       | 224.15         | 3/4 EHS | A1          | T3b        | 34.98                   | 16.72                 | 48      |
|                       |                | 3/4 EHS | A1a         | T3b        | 34.98                   | 1.38                  | 4       |
|                       |                | 1 EHS   | A1          | 81         | 62.7                    | 29.82                 | 48      |

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| DETAILED CABLE FORCES |                  |         |             |            |                         |                       |         |       |    |
|-----------------------|------------------|---------|-------------|------------|-------------------------|-----------------------|---------|-------|----|
| Load Case             | Elevation (ft)   | Cable   | Anchor Node | Tower Node | Available Tension (kip) | Applied Tension (kip) | Use (%) |       |    |
|                       | 271.95           | 1 EHS   | A1b         | 81a        | 62.7                    | 15.83                 | 25      |       |    |
|                       |                  | 1 EHS   | A1a         | 81b        | 62.7                    | 2.66                  | 4       |       |    |
|                       |                  | 1 EHS   | A1          | 97         | 62.7                    | 29.42                 | 47      |       |    |
|                       |                  | 1 EHS   | A1b         | 97a        | 62.7                    | 15.96                 | 25      |       |    |
|                       |                  | 1 EHS   | A1a         | 97b        | 62.7                    | 3.62                  | 6       |       |    |
|                       | 319.75           | 7/8 EHS | A1          | 113        | 47.82                   | 20.08                 | 42      |       |    |
|                       |                  | 7/8 EHS | A1b         | 113a       | 47.82                   | 12.99                 | 27      |       |    |
|                       |                  | 7/8 EHS | A1a         | 113b       | 47.82                   | 4.58                  | 10      |       |    |
|                       |                  |         |             |            |                         |                       |         |       |    |
|                       | 1.2D + 1.0W 240° | 55.85   | 3/4 EHS     | A1         | 21                      | 34.98                 | 10.53   | 30    |    |
|                       |                  |         | 3/4 EHS     | A1b        | 21a                     | 34.98                 | 10.51   | 30    |    |
|                       |                  | 111.95  | 3/4 EHS     | A1a        | 21b                     | 34.98                 | 1.46    | 4     |    |
|                       |                  |         | 3/4 EHS     | A1         | 41                      | 34.98                 | 12.7    | 36    |    |
|                       |                  |         | 3/4 EHS     | A1b        | 41a                     | 34.98                 | 12.61   | 36    |    |
|                       |                  | 168.05  | 3/4 EHS     | A1a        | 41b                     | 34.98                 | 0.58    | 2     |    |
|                       |                  |         | 3/4 EHS     | A1b        | T3                      | 34.98                 | 14.64   | 42    |    |
|                       |                  |         | 3/4 EHS     | A1         | T3                      | 34.98                 | 12.72   | 36    |    |
| 3/4 EHS               |                  |         | A1b         | T3a        | 34.98                   | 12.75                 | 36      |       |    |
|                       |                  | 3/4 EHS | A1a         | T3a        | 34.98                   | 0.41                  | 1       |       |    |
|                       |                  |         | A1a         | T3b        | 34.98                   | 0.39                  | 1       |       |    |
|                       |                  |         | A1          | T3b        | 34.98                   | 14.66                 | 42      |       |    |
|                       |                  |         | 224.15      | 1 EHS      | A1                      | 81                    | 62.7    | 24.85 | 40 |
|                       |                  | 271.95  | 1 EHS       | A1b        | 81a                     | 62.7                  | 24.83   | 40    |    |
|                       |                  |         | 1 EHS       | A1a        | 81b                     | 62.7                  | 1.26    | 2     |    |
|                       |                  |         | 1 EHS       | A1         | 97                      | 62.7                  | 24.51   | 39    |    |
|                       |                  |         | 1 EHS       | A1b        | 97a                     | 62.7                  | 24.5    | 39    |    |
|                       | 1 EHS            |         | A1a         | 97b        | 62.7                    | 2.33                  | 4       |       |    |
|                       | 319.75           | 7/8 EHS | A1          | 113        | 47.82                   | 17.49                 | 37      |       |    |
| 7/8 EHS               |                  | A1b     | 113a        | 47.82      | 17.59                   | 37                    |         |       |    |
| 7/8 EHS               |                  | A1a     | 113b        | 47.82      | 3.48                    | 7                     |         |       |    |
|                       |                  |         |             |            |                         |                       |         |       |    |
| 1.2D + 1.0W 300°      | 55.85            | 3/4 EHS | A1          | 21         | 34.98                   | 4.08                  | 12      |       |    |
|                       |                  | 3/4 EHS | A1b         | 21a        | 34.98                   | 12.72                 | 36      |       |    |
|                       |                  | 3/4 EHS | A1a         | 21b        | 34.98                   | 4.06                  | 12      |       |    |
|                       | 111.95           | 3/4 EHS | A1          | 41         | 34.98                   | 3.76                  | 11      |       |    |
|                       |                  | 3/4 EHS | A1b         | 41a        | 34.98                   | 15.72                 | 45      |       |    |
|                       |                  | 3/4 EHS | A1a         | 41b        | 34.98                   | 3.7                   | 11      |       |    |
|                       | 168.05           | 3/4 EHS | A1          | T3         | 34.98                   | 3.74                  | 11      |       |    |
|                       |                  | 3/4 EHS | A1b         | T3         | 34.98                   | 17.87                 | 51      |       |    |
|                       |                  | 3/4 EHS | A1b         | T3a        | 34.98                   | 15.34                 | 44      |       |    |
|                       |                  | 3/4 EHS | A1a         | T3a        | 34.98                   | 4.33                  | 12      |       |    |
|                       |                  | 3/4 EHS | A1a         | T3b        | 34.98                   | 3.83                  | 11      |       |    |
|                       |                  |         | A1          | T3b        | 34.98                   | 4.53                  | 13      |       |    |
|                       |                  |         | 224.15      | 1 EHS      | A1                      | 81                    | 62.7    | 6.7   | 11 |
|                       |                  |         | 1 EHS       | A1b        | 81a                     | 62.7                  | 30.53   | 49    |    |
|                       |                  | 271.95  | 1 EHS       | A1a        | 81b                     | 62.7                  | 6.71    | 11    |    |
|                       |                  |         | 1 EHS       | A1         | 97                      | 62.7                  | 7.64    | 12    |    |
|                       |                  |         | 1 EHS       | A1b        | 97a                     | 62.7                  | 30.44   | 49    |    |
| 1 EHS                 |                  |         | A1a         | 97b        | 62.7                    | 7.7                   | 12      |       |    |
| 319.75                |                  |         | 7/8 EHS     | A1         | 113                     | 47.82                 | 7.85    | 16    |    |
|                       |                  | 7/8 EHS | A1b         | 113a       | 47.82                   | 20.69                 | 43      |       |    |
|                       | 7/8 EHS          | A1a     | 113b        | 47.82      | 7.93                    | 17                    |         |       |    |
|                       |                  |         |             |            |                         |                       |         |       |    |
| 1.2D + 1.0W 330°      | 55.85            | 3/4 EHS | A1          | 21         | 34.98                   | 1.86                  | 5       |       |    |
|                       |                  | 3/4 EHS | A1b         | 21a        | 34.98                   | 12.16                 | 35      |       |    |
|                       |                  | 3/4 EHS | A1a         | 21b        | 34.98                   | 7.19                  | 21      |       |    |
|                       | 111.95           | 3/4 EHS | A1          | 41         | 34.98                   | 1.25                  | 4       |       |    |
|                       |                  | 3/4 EHS | A1b         | 41a        | 34.98                   | 15.09                 | 43      |       |    |
|                       |                  | 3/4 EHS | A1a         | 41b        | 34.98                   | 8.06                  | 23      |       |    |
|                       | 168.05           | 3/4 EHS | A1          | T3         | 34.98                   | 1.38                  | 4       |       |    |
|                       |                  | 3/4 EHS | A1b         | T3         | 34.98                   | 16.71                 | 48      |       |    |
|                       |                  | 3/4 EHS | A1b         | T3a        | 34.98                   | 15.69                 | 45      |       |    |
|                       |                  |         |             |            |                         |                       |         |       |    |

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| DETAILED CABLE FORCES       |                |         |             |            |                         |                       |         |
|-----------------------------|----------------|---------|-------------|------------|-------------------------|-----------------------|---------|
| Load Case                   | Elevation (ft) | Cable   | Anchor Node | Tower Node | Available Tension (kip) | Applied Tension (kip) | Use (%) |
|                             | 224.15         | 3/4 EHS | A1a         | T3a        | 34.98                   | 9.34                  | 27      |
|                             |                | 3/4 EHS | A1a         | T3b        | 34.98                   | 8.62                  | 25      |
|                             |                | 3/4 EHS | A1          | T3b        | 34.98                   | 1.56                  | 4       |
|                             |                | 1 EHS   | A1          | 81         | 62.7                    | 2.65                  | 4       |
|                             |                | 1 EHS   | A1b         | 81a        | 62.7                    | 29.82                 | 48      |
|                             |                | 1 EHS   | A1a         | 81b        | 62.7                    | 15.83                 | 25      |
|                             | 271.95         | 1 EHS   | A1          | 97         | 62.7                    | 3.62                  | 6       |
|                             |                | 1 EHS   | A1b         | 97a        | 62.7                    | 29.45                 | 47      |
|                             |                | 1 EHS   | A1a         | 97b        | 62.7                    | 15.97                 | 25      |
|                             | 319.75         | 7/8 EHS | A1          | 113        | 47.82                   | 4.57                  | 10      |
|                             |                | 7/8 EHS | A1b         | 113a       | 47.82                   | 20.09                 | 42      |
|                             |                | 7/8 EHS | A1a         | 113b       | 47.82                   | 13                    | 27      |
| 1.2D + 1.0Di + 1.0Wi Normal | 55.85          | 3/4 EHS | A1          | 21         | 34.98                   | 6.54                  | 19      |
|                             |                | 3/4 EHS | A1b         | 21a        | 34.98                   | 7.19                  | 21      |
|                             |                | 3/4 EHS | A1a         | 21b        | 34.98                   | 7.19                  | 21      |
|                             | 111.95         | 3/4 EHS | A1          | 41         | 34.98                   | 5.8                   | 17      |
|                             |                | 3/4 EHS | A1b         | 41a        | 34.98                   | 6.67                  | 19      |
|                             |                | 3/4 EHS | A1a         | 41b        | 34.98                   | 6.67                  | 19      |
|                             | 168.05         | 3/4 EHS | A1b         | T3         | 34.98                   | 6.16                  | 18      |
|                             |                | 3/4 EHS | A1          | T3         | 34.98                   | 5.26                  | 15      |
|                             |                | 3/4 EHS | A1b         | T3a        | 34.98                   | 6.14                  | 18      |
|                             |                | 3/4 EHS | A1a         | T3a        | 34.98                   | 6.14                  | 18      |
|                             |                | 3/4 EHS | A1          | T3b        | 34.98                   | 5.26                  | 15      |
|                             |                | 3/4 EHS | A1a         | T3b        | 34.98                   | 6.16                  | 18      |
|                             | 224.15         | 1 EHS   | A1          | 81         | 62.7                    | 8.85                  | 14      |
|                             |                | 1 EHS   | A1b         | 81a        | 62.7                    | 10.42                 | 17      |
|                             |                | 1 EHS   | A1a         | 81b        | 62.7                    | 10.42                 | 17      |
|                             | 271.95         | 1 EHS   | A1          | 97         | 62.7                    | 8.64                  | 14      |
|                             |                | 1 EHS   | A1b         | 97a        | 62.7                    | 10.1                  | 16      |
|                             |                | 1 EHS   | A1a         | 97b        | 62.7                    | 10.1                  | 16      |
| 1.2D + 1.0Di + 1.0Wi 60°    | 319.75         | 7/8 EHS | A1          | 113        | 47.82                   | 6.71                  | 14      |
|                             |                | 7/8 EHS | A1b         | 113a       | 47.82                   | 7.57                  | 16      |
|                             |                | 7/8 EHS | A1a         | 113b       | 47.82                   | 7.58                  | 16      |
|                             | 55.85          | 3/4 EHS | A1          | 21         | 34.98                   | 6.75                  | 19      |
|                             |                | 3/4 EHS | A1b         | 21a        | 34.98                   | 6.75                  | 19      |
|                             |                | 3/4 EHS | A1a         | 21b        | 34.98                   | 7.39                  | 21      |
|                             | 111.95         | 3/4 EHS | A1          | 41         | 34.98                   | 6.09                  | 17      |
|                             |                | 3/4 EHS | A1b         | 41a        | 34.98                   | 6.08                  | 17      |
|                             |                | 3/4 EHS | A1a         | 41b        | 34.98                   | 6.93                  | 20      |
|                             | 168.05         | 3/4 EHS | A1b         | T3         | 34.98                   | 5.5                   | 16      |
|                             |                | 3/4 EHS | A1          | T3         | 34.98                   | 5.6                   | 16      |
|                             |                | 3/4 EHS | A1b         | T3a        | 34.98                   | 5.59                  | 16      |
|                             |                | 3/4 EHS | A1a         | T3a        | 34.98                   | 6.37                  | 18      |
|                             |                | 3/4 EHS | A1a         | T3b        | 34.98                   | 6.47                  | 18      |
|                             |                | 3/4 EHS | A1          | T3b        | 34.98                   | 5.49                  | 16      |
|                             | 224.15         | 1 EHS   | A1          | 81         | 62.7                    | 9.35                  | 15      |
|                             |                | 1 EHS   | A1b         | 81a        | 62.7                    | 9.36                  | 15      |
|                             |                | 1 EHS   | A1a         | 81b        | 62.7                    | 10.92                 | 17      |
| 1.2D + 1.0Di + 1.0Wi 90°    | 271.95         | 1 EHS   | A1          | 97         | 62.7                    | 9.1                   | 15      |
|                             |                | 1 EHS   | A1b         | 97a        | 62.7                    | 9.11                  | 15      |
|                             |                | 1 EHS   | A1a         | 97b        | 62.7                    | 10.57                 | 17      |
|                             | 319.75         | 7/8 EHS | A1          | 113        | 47.82                   | 6.98                  | 15      |
|                             |                | 7/8 EHS | A1b         | 113a       | 47.82                   | 6.99                  | 15      |
|                             |                | 7/8 EHS | A1a         | 113b       | 47.82                   | 7.84                  | 16      |
|                             | 55.85          | 3/4 EHS | A1          | 21         | 34.98                   | 6.97                  | 20      |
|                             |                | 3/4 EHS | A1b         | 21a        | 34.98                   | 6.59                  | 19      |
|                             |                | 3/4 EHS | A1a         | 21b        | 34.98                   | 7.34                  | 21      |
|                             | 111.95         | 3/4 EHS | A1          | 41         | 34.98                   | 6.38                  | 18      |
|                             |                | 3/4 EHS | A1b         | 41a        | 34.98                   | 5.87                  | 17      |

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| DETAILED CABLE FORCES     |                |         |             |            |                         |                       |         |
|---------------------------|----------------|---------|-------------|------------|-------------------------|-----------------------|---------|
| Load Case                 | Elevation (ft) | Cable   | Anchor Node | Tower Node | Available Tension (kip) | Applied Tension (kip) | Use (%) |
|                           | 168.05         | 3/4 EHS | A1a         | 41b        | 34.98                   | 6.87                  | 20      |
|                           |                | 3/4 EHS | A1          | T3         | 34.98                   | 5.92                  | 17      |
|                           |                | 3/4 EHS | A1b         | T3         | 34.98                   | 5.28                  | 15      |
|                           |                | 3/4 EHS | A1b         | T3a        | 34.98                   | 5.39                  | 15      |
|                           |                | 3/4 EHS | A1a         | T3a        | 34.98                   | 6.29                  | 18      |
|                           |                | 3/4 EHS | A1a         | T3b        | 34.98                   | 6.41                  | 18      |
|                           | 224.15         | 3/4 EHS | A1          | T3b        | 34.98                   | 5.78                  | 17      |
|                           |                | 1 EHS   | A1          | 81         | 62.7                    | 9.88                  | 16      |
|                           |                | 1 EHS   | A1b         | 81a        | 62.7                    | 8.98                  | 14      |
|                           | 271.95         | 1 EHS   | A1a         | 81b        | 62.7                    | 10.79                 | 17      |
|                           |                | 1 EHS   | A1          | 97         | 62.7                    | 9.6                   | 15      |
|                           |                | 1 EHS   | A1b         | 97a        | 62.7                    | 8.76                  | 14      |
|                           | 319.75         | 1 EHS   | A1a         | 97b        | 62.7                    | 10.46                 | 17      |
|                           |                | 7/8 EHS | A1          | 113        | 47.82                   | 7.27                  | 15      |
|                           |                | 7/8 EHS | A1b         | 113a       | 47.82                   | 6.78                  | 14      |
|                           | 55.85          | 7/8 EHS | A1a         | 113b       | 47.82                   | 7.78                  | 16      |
|                           |                | 3/4 EHS | A1          | 21         | 34.98                   | 7.19                  | 21      |
|                           |                | 3/4 EHS | A1b         | 21a        | 34.98                   | 6.53                  | 19      |
|                           | 111.95         | 3/4 EHS | A1a         | 21b        | 34.98                   | 7.19                  | 21      |
|                           |                | 3/4 EHS | A1          | 41         | 34.98                   | 6.68                  | 19      |
|                           |                | 3/4 EHS | A1b         | 41a        | 34.98                   | 5.79                  | 17      |
|                           | 168.05         | 3/4 EHS | A1a         | 41b        | 34.98                   | 6.67                  | 19      |
|                           |                | 3/4 EHS | A1          | T3         | 34.98                   | 6.21                  | 18      |
|                           |                | 3/4 EHS | A1b         | T3         | 34.98                   | 5.21                  | 15      |
|                           | 224.15         | 3/4 EHS | A1b         | T3a        | 34.98                   | 5.3                   | 15      |
|                           |                | 3/4 EHS | A1a         | T3a        | 34.98                   | 6.11                  | 17      |
|                           |                | 3/4 EHS | A1a         | T3b        | 34.98                   | 6.19                  | 18      |
| 1.2D + 1.0Di + 1.0Wi 120° | 224.15         | 3/4 EHS | A1          | T3b        | 34.98                   | 6.1                   | 17      |
|                           |                | 1 EHS   | A1          | 81         | 62.7                    | 10.42                 | 17      |
|                           |                | 1 EHS   | A1b         | 81a        | 62.7                    | 8.85                  | 14      |
|                           | 271.95         | 1 EHS   | A1a         | 81b        | 62.7                    | 10.42                 | 17      |
|                           |                | 1 EHS   | A1          | 97         | 62.7                    | 10.1                  | 16      |
|                           |                | 1 EHS   | A1b         | 97a        | 62.7                    | 8.64                  | 14      |
|                           | 319.75         | 1 EHS   | A1a         | 97b        | 62.7                    | 10.11                 | 16      |
|                           |                | 7/8 EHS | A1          | 113        | 47.82                   | 7.57                  | 16      |
|                           |                | 7/8 EHS | A1b         | 113a       | 47.82                   | 6.71                  | 14      |
|                           | 55.85          | 7/8 EHS | A1a         | 113b       | 47.82                   | 7.58                  | 16      |
|                           |                | 3/4 EHS | A1          | 21         | 34.98                   | 7.4                   | 21      |
|                           |                | 3/4 EHS | A1b         | 21a        | 34.98                   | 6.75                  | 19      |
|                           | 111.95         | 3/4 EHS | A1a         | 21b        | 34.98                   | 6.75                  | 19      |
|                           |                | 3/4 EHS | A1          | 41         | 34.98                   | 6.94                  | 20      |
|                           |                | 3/4 EHS | A1b         | 41a        | 34.98                   | 6.08                  | 17      |
|                           | 168.05         | 3/4 EHS | A1a         | 41b        | 34.98                   | 6.08                  | 17      |
|                           |                | 3/4 EHS | A1          | T3         | 34.98                   | 6.42                  | 18      |
|                           |                | 3/4 EHS | A1b         | T3         | 34.98                   | 5.54                  | 16      |
|                           | 224.15         | 3/4 EHS | A1b         | T3a        | 34.98                   | 5.55                  | 16      |
|                           |                | 3/4 EHS | A1a         | T3a        | 34.98                   | 5.55                  | 16      |
|                           |                | 3/4 EHS | A1a         | T3b        | 34.98                   | 5.54                  | 16      |
|                           | 271.95         | 3/4 EHS | A1          | T3b        | 34.98                   | 6.41                  | 18      |
|                           |                | 1 EHS   | A1          | 81         | 62.7                    | 10.9                  | 17      |
|                           |                | 1 EHS   | A1b         | 81a        | 62.7                    | 9.36                  | 15      |
| 1.2D + 1.0Di + 1.0Wi 180° | 224.15         | 1 EHS   | A1a         | 81b        | 62.7                    | 9.36                  | 15      |
|                           |                | 1 EHS   | A1          | 97         | 62.7                    | 10.54                 | 17      |
|                           |                | 1 EHS   | A1b         | 97a        | 62.7                    | 9.12                  | 15      |
|                           | 271.95         | 1 EHS   | A1a         | 97b        | 62.7                    | 9.12                  | 15      |
|                           |                | 7/8 EHS | A1          | 113        | 47.82                   | 7.81                  | 16      |
|                           |                | 7/8 EHS | A1b         | 113a       | 47.82                   | 7                     | 15      |
|                           | 319.75         | 7/8 EHS | A1a         | 113b       | 47.82                   | 7                     | 15      |
|                           |                | 3/4 EHS | A1          | 21         | 34.98                   | 7.34                  | 21      |
|                           |                | 3/4 EHS | A1          | 21         | 34.98                   | 7.34                  | 21      |
|                           | 55.85          | 3/4 EHS | A1          | 21         | 34.98                   | 7.34                  | 21      |
|                           |                | 3/4 EHS | A1          | 21         | 34.98                   | 7.34                  | 21      |
|                           |                | 3/4 EHS | A1          | 21         | 34.98                   | 7.34                  | 21      |
|                           | 111.95         | 3/4 EHS | A1          | 41         | 34.98                   | 6.94                  | 20      |
|                           |                | 3/4 EHS | A1b         | 41a        | 34.98                   | 6.08                  | 17      |
|                           |                | 3/4 EHS | A1a         | 41b        | 34.98                   | 6.08                  | 17      |
|                           | 168.05         | 3/4 EHS | A1          | T3         | 34.98                   | 6.42                  | 18      |
|                           |                | 3/4 EHS | A1b         | T3         | 34.98                   | 5.54                  | 16      |
|                           |                | 3/4 EHS | A1b         | T3a        | 34.98                   | 5.55                  | 16      |
|                           | 224.15         | 3/4 EHS | A1a         | T3a        | 34.98                   | 5.55                  | 16      |
|                           |                | 3/4 EHS | A1a         | T3b        | 34.98                   | 5.54                  | 16      |
|                           |                | 3/4 EHS | A1          | T3b        | 34.98                   | 6.41                  | 18      |
|                           | 271.95         | 1 EHS   | A1          | 81         | 62.7                    | 10.9                  | 17      |
|                           |                | 1 EHS   | A1b         | 81a        | 62.7                    | 9.36                  | 15      |
|                           |                | 1 EHS   | A1a         | 81b        | 62.7                    | 9.36                  | 15      |
|                           | 319.75         | 1 EHS   | A1          | 97         | 62.7                    | 10.54                 | 17      |
|                           |                | 1 EHS   | A1b         | 97a        | 62.7                    | 9.12                  | 15      |
|                           |                | 1 EHS   | A1a         | 97b        | 62.7                    | 9.12                  | 15      |
| 1.2D + 1.0Di + 1.0Wi 210° | 55.85          | 7/8 EHS | A1          | 113        | 47.82                   | 7.81                  | 16      |
|                           |                | 7/8 EHS | A1b         | 113a       | 47.82                   | 7                     | 15      |
|                           |                | 7/8 EHS | A1a         | 113b       | 47.82                   | 7                     | 15      |

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| DETAILED CABLE FORCES     |                   |         |             |            |                            |                          |         |
|---------------------------|-------------------|---------|-------------|------------|----------------------------|--------------------------|---------|
| Load Case                 | Elevation<br>(ft) | Cable   | Anchor Node | Tower Node | Available Tension<br>(kip) | Applied Tension<br>(kip) | Use (%) |
|                           | 111.95            | 3/4 EHS | A1b         | 21a        | 34.98                      | 6.97                     | 20      |
|                           |                   | 3/4 EHS | A1a         | 21b        | 34.98                      | 6.59                     | 19      |
|                           |                   | 3/4 EHS | A1          | 41         | 34.98                      | 6.87                     | 20      |
|                           | 168.05            | 3/4 EHS | A1b         | 41a        | 34.98                      | 6.37                     | 18      |
|                           |                   | 3/4 EHS | A1a         | 41b        | 34.98                      | 5.87                     | 17      |
|                           |                   | 3/4 EHS | A1b         | T3         | 34.98                      | 5.86                     | 17      |
|                           |                   | 3/4 EHS | A1          | T3         | 34.98                      | 6.32                     | 18      |
|                           |                   | 3/4 EHS | A1a         | T3a        | 34.98                      | 5.36                     | 15      |
|                           |                   | 3/4 EHS | A1b         | T3a        | 34.98                      | 5.83                     | 17      |
|                           |                   | 3/4 EHS | A1a         | T3b        | 34.98                      | 5.31                     | 15      |
|                           |                   | 3/4 EHS | A1          | T3b        | 34.98                      | 6.38                     | 18      |
|                           |                   | 1 EHS   | A1          | 81         | 62.7                       | 10.78                    | 17      |
|                           | 224.15            | 1 EHS   | A1b         | 81a        | 62.7                       | 9.88                     | 16      |
|                           |                   | 1 EHS   | A1a         | 81b        | 62.7                       | 9                        | 14      |
|                           |                   | 1 EHS   | A1          | 97         | 62.7                       | 10.43                    | 17      |
|                           | 271.95            | 1 EHS   | A1b         | 97a        | 62.7                       | 9.61                     | 15      |
|                           |                   | 1 EHS   | A1a         | 97b        | 62.7                       | 8.78                     | 14      |
|                           |                   | 7/8 EHS | A1          | 113        | 47.82                      | 7.75                     | 16      |
|                           | 319.75            | 7/8 EHS | A1b         | 113a       | 47.82                      | 7.29                     | 15      |
|                           |                   | 7/8 EHS | A1a         | 113b       | 47.82                      | 6.8                      | 14      |
|                           |                   | 3/4 EHS | A1          | 21         | 34.98                      | 7.19                     | 21      |
| 1.2D + 1.0Di + 1.0Wi 240° | 55.85             | 3/4 EHS | A1b         | 21a        | 34.98                      | 7.19                     | 21      |
|                           |                   | 3/4 EHS | A1a         | 21b        | 34.98                      | 6.53                     | 19      |
|                           |                   | 3/4 EHS | A1          | 41         | 34.98                      | 6.68                     | 19      |
|                           | 111.95            | 3/4 EHS | A1b         | 41a        | 34.98                      | 6.67                     | 19      |
|                           |                   | 3/4 EHS | A1a         | 41b        | 34.98                      | 5.79                     | 17      |
|                           |                   | 3/4 EHS | A1          | T3         | 34.98                      | 6.1                      | 17      |
|                           | 168.05            | 3/4 EHS | A1b         | T3         | 34.98                      | 6.19                     | 18      |
|                           |                   | 3/4 EHS | A1b         | T3a        | 34.98                      | 6.11                     | 17      |
|                           |                   | 3/4 EHS | A1a         | T3a        | 34.98                      | 5.3                      | 15      |
|                           |                   | 3/4 EHS | A1a         | T3b        | 34.98                      | 5.21                     | 15      |
|                           |                   | 3/4 EHS | A1          | T3b        | 34.98                      | 6.21                     | 18      |
|                           |                   | 1 EHS   | A1          | 81         | 62.7                       | 10.42                    | 17      |
|                           | 224.15            | 1 EHS   | A1b         | 81a        | 62.7                       | 10.42                    | 17      |
|                           |                   | 1 EHS   | A1a         | 81b        | 62.7                       | 8.85                     | 14      |
|                           |                   | 1 EHS   | A1          | 97         | 62.7                       | 10.1                     | 16      |
|                           | 271.95            | 1 EHS   | A1b         | 97a        | 62.7                       | 10.11                    | 16      |
|                           |                   | 1 EHS   | A1a         | 97b        | 62.7                       | 8.64                     | 14      |
|                           |                   | 7/8 EHS | A1          | 113        | 47.82                      | 7.57                     | 16      |
|                           | 319.75            | 7/8 EHS | A1b         | 113a       | 47.82                      | 7.58                     | 16      |
|                           |                   | 7/8 EHS | A1a         | 113b       | 47.82                      | 6.71                     | 14      |
|                           |                   | 3/4 EHS | A1          | 21         | 34.98                      | 6.75                     | 19      |
| 1.2D + 1.0Di + 1.0Wi 300° | 55.85             | 3/4 EHS | A1b         | 21a        | 34.98                      | 7.39                     | 21      |
|                           |                   | 3/4 EHS | A1a         | 21b        | 34.98                      | 6.75                     | 19      |
|                           |                   | 3/4 EHS | A1          | 41         | 34.98                      | 6.09                     | 17      |
|                           | 111.95            | 3/4 EHS | A1b         | 41a        | 34.98                      | 6.93                     | 20      |
|                           |                   | 3/4 EHS | A1a         | 41b        | 34.98                      | 6.08                     | 17      |
|                           |                   | 3/4 EHS | A1          | T3         | 34.98                      | 5.49                     | 16      |
|                           | 168.05            | 3/4 EHS | A1b         | T3         | 34.98                      | 6.47                     | 18      |
|                           |                   | 3/4 EHS | A1b         | T3a        | 34.98                      | 6.37                     | 18      |
|                           |                   | 3/4 EHS | A1a         | T3a        | 34.98                      | 5.59                     | 16      |
|                           |                   | 3/4 EHS | A1a         | T3b        | 34.98                      | 5.5                      | 16      |
|                           |                   | 3/4 EHS | A1          | T3b        | 34.98                      | 5.6                      | 16      |
|                           |                   | 1 EHS   | A1          | 81         | 62.7                       | 9.35                     | 15      |
|                           | 224.15            | 1 EHS   | A1b         | 81a        | 62.7                       | 10.92                    | 17      |
|                           |                   | 1 EHS   | A1a         | 81b        | 62.7                       | 9.36                     | 15      |
|                           |                   | 1 EHS   | A1          | 97         | 62.7                       | 9.1                      | 15      |
|                           | 271.95            | 1 EHS   | A1b         | 97a        | 62.7                       | 10.57                    | 17      |
|                           |                   | 1 EHS   | A1a         | 97b        | 62.7                       | 9.11                     | 15      |

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| Load Case                          | Elevation<br>(ft) | Cable   | Anchor Node | Tower Node | Available Tension<br>(kip) | Applied Tension<br>(kip) | Use (%) |
|------------------------------------|-------------------|---------|-------------|------------|----------------------------|--------------------------|---------|
| <b>1.2D + 1.0Di + 1.0Wi 330°</b>   | 319.75            | 7/8 EHS | A1          | 113        | 47.82                      | 6.98                     | 15      |
|                                    |                   | 7/8 EHS | A1b         | 113a       | 47.82                      | 7.84                     | 16      |
|                                    |                   | 7/8 EHS | A1a         | 113b       | 47.82                      | 6.99                     | 15      |
|                                    | 55.85             | 3/4 EHS | A1          | 21         | 34.98                      | 6.6                      | 19      |
|                                    |                   | 3/4 EHS | A1b         | 21a        | 34.98                      | 7.34                     | 21      |
|                                    |                   | 3/4 EHS | A1a         | 21b        | 34.98                      | 6.97                     | 20      |
|                                    | 111.95            | 3/4 EHS | A1          | 41         | 34.98                      | 5.88                     | 17      |
|                                    |                   | 3/4 EHS | A1b         | 41a        | 34.98                      | 6.86                     | 20      |
|                                    |                   | 3/4 EHS | A1a         | 41b        | 34.98                      | 6.37                     | 18      |
|                                    | 168.05            | 3/4 EHS | A1          | T3         | 34.98                      | 5.31                     | 15      |
|                                    |                   | 3/4 EHS | A1b         | T3         | 34.98                      | 6.38                     | 18      |
|                                    |                   | 3/4 EHS | A1b         | T3a        | 34.98                      | 6.32                     | 18      |
|                                    |                   | 3/4 EHS | A1a         | T3a        | 34.98                      | 5.86                     | 17      |
|                                    |                   | 3/4 EHS | A1a         | T3b        | 34.98                      | 5.83                     | 17      |
|                                    |                   | 3/4 EHS | A1          | T3b        | 34.98                      | 5.37                     | 15      |
| <b>1.2D + 1.0Ev + 1.0Eh Normal</b> | 224.15            | 1 EHS   | A1          | 81         | 62.7                       | 8.99                     | 14      |
|                                    |                   | 1 EHS   | A1b         | 81a        | 62.7                       | 10.78                    | 17      |
|                                    |                   | 1 EHS   | A1a         | 81b        | 62.7                       | 9.88                     | 16      |
|                                    | 271.95            | 1 EHS   | A1          | 97         | 62.7                       | 8.77                     | 14      |
|                                    |                   | 1 EHS   | A1b         | 97a        | 62.7                       | 10.43                    | 17      |
|                                    |                   | 1 EHS   | A1a         | 97b        | 62.7                       | 9.61                     | 15      |
|                                    | 319.75            | 7/8 EHS | A1          | 113        | 47.82                      | 6.79                     | 14      |
|                                    |                   | 7/8 EHS | A1b         | 113a       | 47.82                      | 7.76                     | 16      |
|                                    |                   | 7/8 EHS | A1a         | 113b       | 47.82                      | 7.29                     | 15      |
|                                    | 55.85             | 3/4 EHS | A1          | 21         | 34.98                      | 5.64                     | 16      |
|                                    |                   | 3/4 EHS | A1b         | 21a        | 34.98                      | 5.7                      | 16      |
|                                    |                   | 3/4 EHS | A1a         | 21b        | 34.98                      | 5.7                      | 16      |
|                                    | 111.95            | 3/4 EHS | A1          | 41         | 34.98                      | 5.28                     | 15      |
|                                    |                   | 3/4 EHS | A1b         | 41a        | 34.98                      | 5.41                     | 15      |
|                                    |                   | 3/4 EHS | A1a         | 41b        | 34.98                      | 5.41                     | 15      |
| <b>1.2D + 1.0Ev + 1.0Eh 60°</b>    | 168.05            | 3/4 EHS | A1          | T3         | 34.98                      | 4.96                     | 14      |
|                                    |                   | 3/4 EHS | A1b         | T3         | 34.98                      | 5.19                     | 15      |
|                                    |                   | 3/4 EHS | A1b         | T3a        | 34.98                      | 5.2                      | 15      |
|                                    |                   | 3/4 EHS | A1a         | T3a        | 34.98                      | 5.2                      | 15      |
|                                    |                   | 3/4 EHS | A1a         | T3b        | 34.98                      | 5.19                     | 15      |
|                                    |                   | 3/4 EHS | A1          | T3b        | 34.98                      | 4.96                     | 14      |
|                                    | 224.15            | 1 EHS   | A1          | 81         | 62.7                       | 8.52                     | 14      |
|                                    |                   | 1 EHS   | A1b         | 81a        | 62.7                       | 9.16                     | 15      |
|                                    |                   | 1 EHS   | A1a         | 81b        | 62.7                       | 9.16                     | 15      |
|                                    | 271.95            | 1 EHS   | A1          | 97         | 62.7                       | 8.37                     | 13      |
|                                    |                   | 1 EHS   | A1b         | 97a        | 62.7                       | 9.13                     | 15      |
|                                    |                   | 1 EHS   | A1a         | 97b        | 62.7                       | 9.13                     | 15      |
|                                    | 319.75            | 7/8 EHS | A1          | 113        | 47.82                      | 6.46                     | 14      |
|                                    |                   | 7/8 EHS | A1b         | 113a       | 47.82                      | 6.99                     | 15      |
|                                    |                   | 7/8 EHS | A1a         | 113b       | 47.82                      | 6.99                     | 15      |
| <b>1.2D + 1.0Ev + 1.0Eh 60°</b>    | 55.85             | 3/4 EHS | A1          | 21         | 34.98                      | 5.66                     | 16      |
|                                    |                   | 3/4 EHS | A1b         | 21a        | 34.98                      | 5.66                     | 16      |
|                                    |                   | 3/4 EHS | A1a         | 21b        | 34.98                      | 5.73                     | 16      |
|                                    | 111.95            | 3/4 EHS | A1          | 41         | 34.98                      | 5.32                     | 15      |
|                                    |                   | 3/4 EHS | A1b         | 41a        | 34.98                      | 5.32                     | 15      |
|                                    |                   | 3/4 EHS | A1a         | 41b        | 34.98                      | 5.46                     | 16      |
|                                    | 168.05            | 3/4 EHS | A1          | T3         | 34.98                      | 5.03                     | 14      |
|                                    |                   | 3/4 EHS | A1b         | T3         | 34.98                      | 5.03                     | 14      |
|                                    |                   | 3/4 EHS | A1b         | T3a        | 34.98                      | 5.04                     | 14      |
|                                    |                   | 3/4 EHS | A1a         | T3a        | 34.98                      | 5.27                     | 15      |
|                                    |                   | 3/4 EHS | A1a         | T3b        | 34.98                      | 5.27                     | 15      |
|                                    |                   | 3/4 EHS | A1          | T3b        | 34.98                      | 5.04                     | 14      |
|                                    | 224.15            | 1 EHS   | A1          | 81         | 62.7                       | 8.73                     | 14      |
|                                    |                   | 1 EHS   | A1b         | 81a        | 62.7                       | 8.73                     | 14      |

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| DETAILED CABLE FORCES     |                           |         |             |            |                         |                       |         |      |
|---------------------------|---------------------------|---------|-------------|------------|-------------------------|-----------------------|---------|------|
| Load Case                 | Elevation (ft)            | Cable   | Anchor Node | Tower Node | Available Tension (kip) | Applied Tension (kip) | Use (%) |      |
| 1.2D + 1.0Ev + 1.0Eh 90°  | 271.95                    | 1 EHS   | A1a         | 81b        | 62.7                    | 9.38                  | 15      |      |
|                           |                           | 1 EHS   | A1          | 97         | 62.7                    | 8.62                  | 14      |      |
|                           |                           | 1 EHS   | A1b         | 97a        | 62.7                    | 8.62                  | 14      |      |
|                           |                           | 1 EHS   | A1a         | 97b        | 62.7                    | 9.39                  | 15      |      |
|                           | 319.75                    | 7/8 EHS | A1          | 113        | 47.82                   | 6.64                  | 14      |      |
|                           |                           | 7/8 EHS | A1b         | 113a       | 47.82                   | 6.64                  | 14      |      |
|                           |                           | 7/8 EHS | A1a         | 113b       | 47.82                   | 7.17                  | 15      |      |
|                           |                           | 3/4 EHS | A1          | 21         | 34.98                   | 5.68                  | 16      |      |
|                           | 55.85                     | 3/4 EHS | A1b         | 21a        | 34.98                   | 5.65                  | 16      |      |
|                           |                           | 3/4 EHS | A1a         | 21b        | 34.98                   | 5.72                  | 16      |      |
|                           |                           | 111.95  | 3/4 EHS     | A1         | 41                      | 34.98                 | 5.37    | 15   |
|                           |                           |         | 3/4 EHS     | A1b        | 41a                     | 34.98                 | 5.29    | 15   |
|                           | 3/4 EHS                   |         | A1a         | 41b        | 34.98                   | 5.45                  | 16      |      |
|                           | 168.05                    |         | 3/4 EHS     | A1         | T3                      | 34.98                 | 5.11    | 15   |
|                           |                           | 3/4 EHS | A1b         | T3         | 34.98                   | 4.98                  | 14      |      |
|                           |                           | 3/4 EHS | A1b         | T3a        | 34.98                   | 4.98                  | 14      |      |
|                           |                           | 3/4 EHS | A1a         | T3a        | 34.98                   | 5.25                  | 15      |      |
|                           |                           | 3/4 EHS | A1a         | T3b        | 34.98                   | 5.25                  | 15      |      |
|                           |                           | 3/4 EHS | A1          | T3b        | 34.98                   | 5.12                  | 15      |      |
|                           |                           | 224.15  | 1 EHS       | A1         | 81                      | 62.7                  | 8.95    | 14   |
|                           |                           |         | 1 EHS       | A1b        | 81a                     | 62.7                  | 8.58    | 14   |
|                           | 1 EHS                     |         | A1a         | 81b        | 62.7                    | 9.32                  | 15      |      |
|                           | 271.95                    |         | 1 EHS       | A1         | 97                      | 62.7                  | 8.88    | 14   |
|                           |                           | 1 EHS   | A1b         | 97a        | 62.7                    | 8.43                  | 13      |      |
|                           |                           | 1 EHS   | A1a         | 97b        | 62.7                    | 9.32                  | 15      |      |
|                           |                           | 319.75  | 7/8 EHS     | A1         | 113                     | 47.82                 | 6.82    | 14   |
|                           | 7/8 EHS                   |         | A1b         | 113a       | 47.82                   | 6.51                  | 14      |      |
|                           | 7/8 EHS                   |         | A1a         | 113b       | 47.82                   | 7.12                  | 15      |      |
| 1.2D + 1.0Ev + 1.0Eh 120° | 55.85                     |         | 3/4 EHS     | A1         | 21                      | 34.98                 | 5.7     | 16   |
|                           |                           | 3/4 EHS | A1b         | 21a        | 34.98                   | 5.64                  | 16      |      |
|                           |                           | 3/4 EHS | A1a         | 21b        | 34.98                   | 5.7                   | 16      |      |
|                           |                           | 111.95  | 3/4 EHS     | A1         | 41                      | 34.98                 | 5.41    | 15   |
|                           | 3/4 EHS                   |         | A1b         | 41a        | 34.98                   | 5.28                  | 15      |      |
|                           | 3/4 EHS                   |         | A1a         | 41b        | 34.98                   | 5.41                  | 15      |      |
|                           | 168.05                    |         | 3/4 EHS     | A1         | T3                      | 34.98                 | 5.19    | 15   |
|                           |                           | 3/4 EHS | A1b         | T3         | 34.98                   | 4.96                  | 14      |      |
|                           |                           | 3/4 EHS | A1a         | T3a        | 34.98                   | 5.19                  | 15      |      |
|                           |                           | 3/4 EHS | A1b         | T3a        | 34.98                   | 4.96                  | 14      |      |
|                           |                           | 3/4 EHS | A1          | T3b        | 34.98                   | 5.2                   | 15      |      |
|                           |                           | 3/4 EHS | A1a         | T3b        | 34.98                   | 5.2                   | 15      |      |
|                           |                           | 224.15  | 1 EHS       | A1         | 81                      | 62.7                  | 9.16    | 15   |
|                           |                           |         | 1 EHS       | A1b        | 81a                     | 62.7                  | 8.52    | 14   |
|                           | 1 EHS                     |         | A1a         | 81b        | 62.7                    | 9.16                  | 15      |      |
|                           | 271.95                    |         | 1 EHS       | A1         | 97                      | 62.7                  | 9.13    | 15   |
|                           |                           | 1 EHS   | A1b         | 97a        | 62.7                    | 8.37                  | 13      |      |
|                           |                           | 1 EHS   | A1a         | 97b        | 62.7                    | 9.13                  | 15      |      |
|                           |                           | 319.75  | 7/8 EHS     | A1         | 113                     | 47.82                 | 6.99    | 15   |
|                           | 7/8 EHS                   |         | A1b         | 113a       | 47.82                   | 6.46                  | 14      |      |
|                           | 7/8 EHS                   |         | A1a         | 113b       | 47.82                   | 6.99                  | 15      |      |
|                           | 1.2D + 1.0Ev + 1.0Eh 180° |         | 55.85       | 3/4 EHS    | A1                      | 21                    | 34.98   | 5.73 |
|                           |                           | 3/4 EHS |             | A1b        | 21a                     | 34.98                 | 5.66    | 16   |
|                           |                           | 3/4 EHS |             | A1a        | 21b                     | 34.98                 | 5.66    | 16   |
|                           |                           | 111.95  |             | 3/4 EHS    | A1                      | 41                    | 34.98   | 5.46 |
|                           |                           |         | 3/4 EHS     | A1b        | 41a                     | 34.98                 | 5.32    | 15   |
|                           |                           |         | 3/4 EHS     | A1a        | 41b                     | 34.98                 | 5.32    | 15   |
|                           |                           |         | 168.05      | 3/4 EHS    | A1                      | T3                    | 34.98   | 5.27 |
| 3/4 EHS                   |                           | A1b     |             | T3         | 34.98                   | 5.04                  | 14      |      |
| 3/4 EHS                   |                           | A1b     |             | T3a        | 34.98                   | 5.03                  | 14      |      |
| 3/4 EHS                   |                           | A1a     |             | T3a        | 34.98                   | 5.03                  | 14      |      |

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| DETAILED CABLE FORCES     |                |         |             |            |                         |                       |         |
|---------------------------|----------------|---------|-------------|------------|-------------------------|-----------------------|---------|
| Load Case                 | Elevation (ft) | Cable   | Anchor Node | Tower Node | Available Tension (kip) | Applied Tension (kip) | Use (%) |
| 1.2D + 1.0Ev + 1.0Eh 210° | 224.15         | 3/4 EHS | A1          | T3b        | 34.98                   | 5.27                  | 15      |
|                           |                | 3/4 EHS | A1a         | T3b        | 34.98                   | 5.04                  | 14      |
|                           |                | 1 EHS   | A1          | 81         | 62.7                    | 9.38                  | 15      |
|                           |                | 1 EHS   | A1b         | 81a        | 62.7                    | 8.73                  | 14      |
|                           | 271.95         | 1 EHS   | A1a         | 81b        | 62.7                    | 8.73                  | 14      |
|                           |                | 1 EHS   | A1          | 97         | 62.7                    | 9.39                  | 15      |
|                           |                | 1 EHS   | A1b         | 97a        | 62.7                    | 8.62                  | 14      |
|                           |                | 1 EHS   | A1a         | 97b        | 62.7                    | 8.62                  | 14      |
|                           | 319.75         | 7/8 EHS | A1          | 113        | 47.82                   | 7.17                  | 15      |
|                           |                | 7/8 EHS | A1b         | 113a       | 47.82                   | 6.64                  | 14      |
|                           |                | 7/8 EHS | A1a         | 113b       | 47.82                   | 6.64                  | 14      |
|                           | 55.85          | 3/4 EHS | A1          | 21         | 34.98                   | 5.72                  | 16      |
|                           |                | 3/4 EHS | A1b         | 21a        | 34.98                   | 5.68                  | 16      |
|                           |                | 3/4 EHS | A1a         | 21b        | 34.98                   | 5.65                  | 16      |
|                           | 111.95         | 3/4 EHS | A1          | 41         | 34.98                   | 5.45                  | 16      |
|                           |                | 3/4 EHS | A1b         | 41a        | 34.98                   | 5.37                  | 15      |
|                           |                | 3/4 EHS | A1a         | 41b        | 34.98                   | 5.29                  | 15      |
|                           | 168.05         | 3/4 EHS | A1          | T3         | 34.98                   | 5.25                  | 15      |
|                           |                | 3/4 EHS | A1b         | T3         | 34.98                   | 5.12                  | 15      |
|                           |                | 3/4 EHS | A1a         | T3a        | 34.98                   | 4.98                  | 14      |
|                           |                | 3/4 EHS | A1b         | T3a        | 34.98                   | 5.11                  | 15      |
|                           | 224.15         | 3/4 EHS | A1          | T3b        | 34.98                   | 5.25                  | 15      |
|                           |                | 3/4 EHS | A1a         | T3b        | 34.98                   | 4.98                  | 14      |
|                           |                | 1 EHS   | A1          | 81         | 62.7                    | 9.32                  | 15      |
|                           |                | 1 EHS   | A1b         | 81a        | 62.7                    | 8.95                  | 14      |
|                           | 271.95         | 1 EHS   | A1a         | 81b        | 62.7                    | 8.58                  | 14      |
|                           |                | 1 EHS   | A1          | 97         | 62.7                    | 9.32                  | 15      |
|                           |                | 1 EHS   | A1b         | 97a        | 62.7                    | 8.88                  | 14      |
|                           |                | 1 EHS   | A1a         | 97b        | 62.7                    | 8.43                  | 13      |
| 1.2D + 1.0Ev + 1.0Eh 240° | 319.75         | 7/8 EHS | A1          | 113        | 47.82                   | 7.12                  | 15      |
|                           |                | 7/8 EHS | A1b         | 113a       | 47.82                   | 6.82                  | 14      |
|                           |                | 7/8 EHS | A1a         | 113b       | 47.82                   | 6.51                  | 14      |
|                           | 55.85          | 3/4 EHS | A1          | 21         | 34.98                   | 5.7                   | 16      |
|                           |                | 3/4 EHS | A1b         | 21a        | 34.98                   | 5.7                   | 16      |
|                           |                | 3/4 EHS | A1a         | 21b        | 34.98                   | 5.64                  | 16      |
|                           | 111.95         | 3/4 EHS | A1          | 41         | 34.98                   | 5.41                  | 15      |
|                           |                | 3/4 EHS | A1b         | 41a        | 34.98                   | 5.41                  | 15      |
|                           |                | 3/4 EHS | A1a         | 41b        | 34.98                   | 5.28                  | 15      |
|                           | 168.05         | 3/4 EHS | A1b         | T3         | 34.98                   | 5.2                   | 15      |
|                           |                | 3/4 EHS | A1          | T3         | 34.98                   | 5.2                   | 15      |
|                           |                | 3/4 EHS | A1b         | T3a        | 34.98                   | 5.19                  | 15      |
|                           |                | 3/4 EHS | A1a         | T3a        | 34.98                   | 4.96                  | 14      |
|                           | 224.15         | 3/4 EHS | A1a         | T3b        | 34.98                   | 4.96                  | 14      |
|                           |                | 3/4 EHS | A1          | T3b        | 34.98                   | 5.19                  | 15      |
|                           |                | 1 EHS   | A1          | 81         | 62.7                    | 9.16                  | 15      |
|                           |                | 1 EHS   | A1b         | 81a        | 62.7                    | 9.16                  | 15      |
|                           | 271.95         | 1 EHS   | A1a         | 81b        | 62.7                    | 8.52                  | 14      |
|                           |                | 1 EHS   | A1          | 97         | 62.7                    | 9.13                  | 15      |
|                           |                | 1 EHS   | A1b         | 97a        | 62.7                    | 9.13                  | 15      |
|                           |                | 1 EHS   | A1a         | 97b        | 62.7                    | 8.37                  | 13      |
|                           | 319.75         | 7/8 EHS | A1          | 113        | 47.82                   | 6.99                  | 15      |
|                           |                | 7/8 EHS | A1b         | 113a       | 47.82                   | 6.99                  | 15      |
|                           |                | 7/8 EHS | A1a         | 113b       | 47.82                   | 6.46                  | 14      |
| 1.2D + 1.0Ev + 1.0Eh 300° | 55.85          | 3/4 EHS | A1          | 21         | 34.98                   | 5.66                  | 16      |
|                           |                | 3/4 EHS | A1b         | 21a        | 34.98                   | 5.73                  | 16      |
|                           |                | 3/4 EHS | A1a         | 21b        | 34.98                   | 5.66                  | 16      |
|                           | 111.95         | 3/4 EHS | A1          | 41         | 34.98                   | 5.32                  | 15      |
|                           |                | 3/4 EHS | A1b         | 41a        | 34.98                   | 5.46                  | 16      |
|                           |                | 3/4 EHS | A1a         | 41b        | 34.98                   | 5.32                  | 15      |

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| DETAILED CABLE FORCES      |                |         |             |            |                         |                       |         |
|----------------------------|----------------|---------|-------------|------------|-------------------------|-----------------------|---------|
| Load Case                  | Elevation (ft) | Cable   | Anchor Node | Tower Node | Available Tension (kip) | Applied Tension (kip) | Use (%) |
|                            | 168.05         | 3/4 EHS | A1          | T3         | 34.98                   | 5.04                  | 14      |
|                            |                | 3/4 EHS | A1b         | T3         | 34.98                   | 5.27                  | 15      |
|                            |                | 3/4 EHS | A1b         | T3a        | 34.98                   | 5.27                  | 15      |
|                            |                | 3/4 EHS | A1a         | T3a        | 34.98                   | 5.04                  | 14      |
|                            |                | 3/4 EHS | A1a         | T3b        | 34.98                   | 5.03                  | 14      |
|                            | 224.15         | 3/4 EHS | A1          | T3b        | 34.98                   | 5.03                  | 14      |
|                            |                | 1 EHS   | A1          | 81         | 62.7                    | 8.73                  | 14      |
|                            |                | 1 EHS   | A1b         | 81a        | 62.7                    | 9.38                  | 15      |
|                            | 271.95         | 1 EHS   | A1a         | 81b        | 62.7                    | 8.73                  | 14      |
|                            |                | 1 EHS   | A1          | 97         | 62.7                    | 8.62                  | 14      |
|                            |                | 1 EHS   | A1b         | 97a        | 62.7                    | 9.39                  | 15      |
|                            | 319.75         | 1 EHS   | A1a         | 97b        | 62.7                    | 8.62                  | 14      |
|                            |                | 7/8 EHS | A1          | 113        | 47.82                   | 6.64                  | 14      |
|                            |                | 7/8 EHS | A1b         | 113a       | 47.82                   | 7.17                  | 15      |
|                            | 55.85          | 7/8 EHS | A1a         | 113b       | 47.82                   | 6.64                  | 14      |
|                            |                | 3/4 EHS | A1          | 21         | 34.98                   | 5.65                  | 16      |
|                            |                | 3/4 EHS | A1b         | 21a        | 34.98                   | 5.72                  | 16      |
|                            | 111.95         | 3/4 EHS | A1a         | 21b        | 34.98                   | 5.68                  | 16      |
|                            |                | 3/4 EHS | A1          | 41         | 34.98                   | 5.29                  | 15      |
|                            |                | 3/4 EHS | A1b         | 41a        | 34.98                   | 5.45                  | 16      |
| 1.2D + 1.0Ev + 1.0Eh 330°  | 168.05         | 3/4 EHS | A1a         | 41b        | 34.98                   | 5.37                  | 15      |
|                            |                | 3/4 EHS | A1          | T3         | 34.98                   | 4.98                  | 14      |
|                            |                | 3/4 EHS | A1b         | T3         | 34.98                   | 5.25                  | 15      |
|                            | 224.15         | 3/4 EHS | A1b         | T3a        | 34.98                   | 5.25                  | 15      |
|                            |                | 3/4 EHS | A1a         | T3a        | 34.98                   | 5.12                  | 15      |
|                            |                | 3/4 EHS | A1a         | T3b        | 34.98                   | 5.11                  | 15      |
|                            | 271.95         | 3/4 EHS | A1          | T3b        | 34.98                   | 4.98                  | 14      |
|                            |                | 1 EHS   | A1          | 81         | 62.7                    | 8.58                  | 14      |
|                            |                | 1 EHS   | A1b         | 81a        | 62.7                    | 9.32                  | 15      |
|                            | 319.75         | 1 EHS   | A1a         | 81b        | 62.7                    | 8.95                  | 14      |
|                            |                | 1 EHS   | A1          | 97         | 62.7                    | 8.43                  | 13      |
|                            |                | 1 EHS   | A1b         | 97a        | 62.7                    | 9.32                  | 15      |
|                            | 55.85          | 1 EHS   | A1a         | 97b        | 62.7                    | 8.88                  | 14      |
|                            |                | 7/8 EHS | A1          | 113        | 47.82                   | 6.51                  | 14      |
|                            |                | 7/8 EHS | A1b         | 113a       | 47.82                   | 7.12                  | 15      |
|                            | 111.95         | 7/8 EHS | A1a         | 113b       | 47.82                   | 6.82                  | 14      |
|                            |                | 3/4 EHS | A1          | 21         | 34.98                   | 4.3                   | 12      |
|                            |                | 3/4 EHS | A1b         | 21a        | 34.98                   | 6.53                  | 19      |
| 1.0D + 1.0W Service Normal | 168.05         | 3/4 EHS | A1a         | 21b        | 34.98                   | 6.53                  | 19      |
|                            |                | 3/4 EHS | A1          | 41         | 34.98                   | 3.5                   | 10      |
|                            |                | 3/4 EHS | A1b         | 41a        | 34.98                   | 6.56                  | 19      |
|                            | 224.15         | 3/4 EHS | A1a         | 41b        | 34.98                   | 6.56                  | 19      |
|                            |                | 3/4 EHS | A1          | T3         | 34.98                   | 3.06                  | 9       |
|                            |                | 3/4 EHS | A1b         | T3         | 34.98                   | 6.44                  | 18      |
|                            | 271.95         | 3/4 EHS | A1b         | T3a        | 34.98                   | 6.4                   | 18      |
|                            |                | 3/4 EHS | A1a         | T3a        | 34.98                   | 6.4                   | 18      |
|                            |                | 3/4 EHS | A1a         | T3b        | 34.98                   | 6.44                  | 18      |
|                            | 319.75         | 3/4 EHS | A1          | T3b        | 34.98                   | 3.07                  | 9       |
|                            |                | 1 EHS   | A1          | 81         | 62.7                    | 5.28                  | 8       |
|                            |                | 1 EHS   | A1b         | 81a        | 62.7                    | 11.19                 | 18      |
|                            | 55.85          | 1 EHS   | A1a         | 81b        | 62.7                    | 11.19                 | 18      |
|                            |                | 1 EHS   | A1          | 97         | 62.7                    | 5.32                  | 8       |
|                            |                | 1 EHS   | A1b         | 97a        | 62.7                    | 11.03                 | 18      |
|                            | 111.95         | 1 EHS   | A1a         | 97b        | 62.7                    | 11.03                 | 18      |
|                            |                | 7/8 EHS | A1          | 113        | 47.82                   | 4.86                  | 10      |
|                            |                | 7/8 EHS | A1b         | 113a       | 47.82                   | 8.33                  | 17      |
| 1.0D + 1.0W Service 60°    | 168.05         | 7/8 EHS | A1a         | 113b       | 47.82                   | 8.33                  | 17      |
|                            |                | 3/4 EHS | A1          | 21         | 34.98                   | 5.02                  | 14      |
|                            | 55.85          | 3/4 EHS | A1b         | 21a        | 34.98                   | 5.02                  | 14      |

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| DETAILED CABLE FORCES    |                |         |             |            |                         |                       |         |
|--------------------------|----------------|---------|-------------|------------|-------------------------|-----------------------|---------|
| Load Case                | Elevation (ft) | Cable   | Anchor Node | Tower Node | Available Tension (kip) | Applied Tension (kip) | Use (%) |
|                          | 111.95         | 3/4 EHS | A1a         | 21b        | 34.98                   | 7.19                  | 21      |
|                          |                | 3/4 EHS | A1          | 41         | 34.98                   | 4.48                  | 13      |
|                          |                | 3/4 EHS | A1b         | 41a        | 34.98                   | 4.47                  | 13      |
|                          | 168.05         | 3/4 EHS | A1a         | 41b        | 34.98                   | 7.5                   | 21      |
|                          |                | 3/4 EHS | A1          | T3         | 34.98                   | 4.45                  | 13      |
|                          |                | 3/4 EHS | A1b         | T3         | 34.98                   | 4.06                  | 12      |
|                          |                | 3/4 EHS | A1b         | T3a        | 34.98                   | 4.39                  | 13      |
|                          |                | 3/4 EHS | A1a         | T3a        | 34.98                   | 7.19                  | 21      |
|                          |                | 3/4 EHS | A1a         | T3b        | 34.98                   | 7.68                  | 22      |
|                          |                | 3/4 EHS | A1          | T3b        | 34.98                   | 4.01                  | 11      |
|                          | 224.15         | 1 EHS   | A1          | 81         | 62.7                    | 7.27                  | 12      |
|                          |                | 1 EHS   | A1b         | 81a        | 62.7                    | 7.27                  | 12      |
|                          |                | 1 EHS   | A1a         | 81b        | 62.7                    | 13.24                 | 21      |
|                          | 271.95         | 1 EHS   | A1          | 97         | 62.7                    | 7.36                  | 12      |
|                          |                | 1 EHS   | A1b         | 97a        | 62.7                    | 7.37                  | 12      |
|                          |                | 1 EHS   | A1a         | 97b        | 62.7                    | 13.08                 | 21      |
|                          | 319.75         | 7/8 EHS | A1          | 113        | 47.82                   | 6.18                  | 13      |
|                          |                | 7/8 EHS | A1b         | 113a       | 47.82                   | 6.2                   | 13      |
|                          |                | 7/8 EHS | A1a         | 113b       | 47.82                   | 9.53                  | 20      |
| 1.0D + 1.0W Service 90°  | 55.85          | 3/4 EHS | A1          | 21         | 34.98                   | 5.77                  | 16      |
|                          |                | 3/4 EHS | A1b         | 21a        | 34.98                   | 4.49                  | 13      |
|                          |                | 3/4 EHS | A1a         | 21b        | 34.98                   | 7.02                  | 20      |
|                          | 111.95         | 3/4 EHS | A1          | 41         | 34.98                   | 5.5                   | 16      |
|                          |                | 3/4 EHS | A1b         | 41a        | 34.98                   | 3.76                  | 11      |
|                          |                | 3/4 EHS | A1a         | 41b        | 34.98                   | 7.26                  | 21      |
|                          | 168.05         | 3/4 EHS | A1          | T3         | 34.98                   | 5.6                   | 16      |
|                          |                | 3/4 EHS | A1b         | T3         | 34.98                   | 3.18                  | 9       |
|                          |                | 3/4 EHS | A1b         | T3a        | 34.98                   | 3.61                  | 10      |
|                          |                | 3/4 EHS | A1a         | T3a        | 34.98                   | 6.88                  | 20      |
|                          |                | 3/4 EHS | A1a         | T3b        | 34.98                   | 7.46                  | 21      |
|                          |                | 3/4 EHS | A1          | T3b        | 34.98                   | 5.04                  | 14      |
|                          |                | 1 EHS   | A1          | 81         | 62.7                    | 9.18                  | 15      |
|                          | 224.15         | 1 EHS   | A1b         | 81a        | 62.7                    | 5.84                  | 9       |
|                          |                | 1 EHS   | A1a         | 81b        | 62.7                    | 12.68                 | 20      |
|                          |                | 1 EHS   | A1          | 97         | 62.7                    | 9.17                  | 15      |
|                          | 271.95         | 1 EHS   | A1b         | 97a        | 62.7                    | 5.92                  | 9       |
|                          |                | 1 EHS   | A1a         | 97b        | 62.7                    | 12.51                 | 20      |
|                          |                | 1 EHS   | A1          | 97b        | 62.7                    | 12.51                 | 20      |
|                          | 319.75         | 7/8 EHS | A1          | 113        | 47.82                   | 7.27                  | 15      |
|                          |                | 7/8 EHS | A1b         | 113a       | 47.82                   | 5.26                  | 11      |
|                          |                | 7/8 EHS | A1a         | 113b       | 47.82                   | 9.19                  | 19      |
| 1.0D + 1.0W Service 120° | 55.85          | 3/4 EHS | A1          | 21         | 34.98                   | 6.54                  | 19      |
|                          |                | 3/4 EHS | A1b         | 21a        | 34.98                   | 4.29                  | 12      |
|                          |                | 3/4 EHS | A1a         | 21b        | 34.98                   | 6.53                  | 19      |
|                          | 111.95         | 3/4 EHS | A1          | 41         | 34.98                   | 6.58                  | 19      |
|                          |                | 3/4 EHS | A1b         | 41a        | 34.98                   | 3.49                  | 10      |
|                          |                | 3/4 EHS | A1a         | 41b        | 34.98                   | 6.56                  | 19      |
|                          | 168.05         | 3/4 EHS | A1          | T3         | 34.98                   | 6.68                  | 19      |
|                          |                | 3/4 EHS | A1b         | T3         | 34.98                   | 2.88                  | 8       |
|                          |                | 3/4 EHS | A1a         | T3a        | 34.98                   | 6.21                  | 18      |
|                          |                | 3/4 EHS | A1b         | T3a        | 34.98                   | 3.25                  | 9       |
|                          |                | 3/4 EHS | A1          | T3b        | 34.98                   | 6.18                  | 18      |
|                          |                | 3/4 EHS | A1a         | T3b        | 34.98                   | 6.64                  | 19      |
|                          |                | 1 EHS   | A1          | 81         | 62.7                    | 11.2                  | 18      |
|                          | 224.15         | 1 EHS   | A1b         | 81a        | 62.7                    | 5.26                  | 8       |
|                          |                | 1 EHS   | A1a         | 81b        | 62.7                    | 11.2                  | 18      |
|                          |                | 1 EHS   | A1          | 97         | 62.7                    | 11.04                 | 18      |
|                          | 271.95         | 1 EHS   | A1b         | 97a        | 62.7                    | 5.29                  | 8       |
|                          |                | 1 EHS   | A1a         | 97b        | 62.7                    | 11.05                 | 18      |
|                          |                | 1 EHS   | A1          | 97b        | 62.7                    | 11.05                 | 18      |
|                          | 319.75         | 7/8 EHS | A1          | 113        | 47.82                   | 8.33                  | 17      |

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| DETAILED CABLE FORCES    |                |         |             |            |                         |                       |         |
|--------------------------|----------------|---------|-------------|------------|-------------------------|-----------------------|---------|
| Load Case                | Elevation (ft) | Cable   | Anchor Node | Tower Node | Available Tension (kip) | Applied Tension (kip) | Use (%) |
| 1.0D + 1.0W Service 180° | 55.85          | 7/8 EHS | A1b         | 113a       | 47.82                   | 4.84                  | 10      |
|                          |                | 7/8 EHS | A1a         | 113b       | 47.82                   | 8.34                  | 17      |
|                          |                | 3/4 EHS | A1          | 21         | 34.98                   | 7.2                   | 21      |
|                          |                | 3/4 EHS | A1b         | 21a        | 34.98                   | 5.02                  | 14      |
|                          | 111.95         | 3/4 EHS | A1a         | 21b        | 34.98                   | 5.02                  | 14      |
|                          |                | 3/4 EHS | A1          | 41         | 34.98                   | 7.51                  | 21      |
|                          |                | 3/4 EHS | A1b         | 41a        | 34.98                   | 4.47                  | 13      |
|                          |                | 3/4 EHS | A1a         | 41b        | 34.98                   | 4.47                  | 13      |
|                          | 168.05         | 3/4 EHS | A1          | T3         | 34.98                   | 7.44                  | 21      |
|                          |                | 3/4 EHS | A1b         | T3         | 34.98                   | 4.19                  | 12      |
|                          |                | 3/4 EHS | A1b         | T3a        | 34.98                   | 4.25                  | 12      |
|                          |                | 3/4 EHS | A1a         | T3a        | 34.98                   | 4.25                  | 12      |
|                          | 224.15         | 3/4 EHS | A1          | T3b        | 34.98                   | 7.43                  | 21      |
|                          |                | 3/4 EHS | A1a         | T3b        | 34.98                   | 4.2                   | 12      |
|                          |                | 1 EHS   | A1          | 81         | 62.7                    | 13.22                 | 21      |
|                          |                | 1 EHS   | A1b         | 81a        | 62.7                    | 7.28                  | 12      |
|                          | 271.95         | 1 EHS   | A1a         | 81b        | 62.7                    | 7.28                  | 12      |
|                          |                | 1 EHS   | A1          | 97         | 62.7                    | 13.06                 | 21      |
|                          |                | 1 EHS   | A1b         | 97a        | 62.7                    | 7.37                  | 12      |
|                          |                | 1 EHS   | A1a         | 97b        | 62.7                    | 7.37                  | 12      |
|                          | 319.75         | 7/8 EHS | A1          | 113        | 47.82                   | 9.5                   | 20      |
|                          |                | 7/8 EHS | A1b         | 113a       | 47.82                   | 6.2                   | 13      |
|                          |                | 7/8 EHS | A1a         | 113b       | 47.82                   | 6.2                   | 13      |
| 1.0D + 1.0W Service 210° | 55.85          | 3/4 EHS | A1          | 21         | 34.98                   | 7.03                  | 20      |
|                          |                | 3/4 EHS | A1b         | 21a        | 34.98                   | 5.76                  | 16      |
|                          |                | 3/4 EHS | A1a         | 21b        | 34.98                   | 4.49                  | 13      |
|                          | 111.95         | 3/4 EHS | A1          | 41         | 34.98                   | 7.27                  | 21      |
|                          |                | 3/4 EHS | A1b         | 41a        | 34.98                   | 5.49                  | 16      |
|                          |                | 3/4 EHS | A1a         | 41b        | 34.98                   | 3.76                  | 11      |
|                          | 168.05         | 3/4 EHS | A1          | T3         | 34.98                   | 7.04                  | 20      |
|                          |                | 3/4 EHS | A1b         | T3         | 34.98                   | 5.39                  | 15      |
|                          |                | 3/4 EHS | A1a         | T3a        | 34.98                   | 3.5                   | 10      |
|                          | 224.15         | 3/4 EHS | A1b         | T3a        | 34.98                   | 5.23                  | 15      |
|                          |                | 3/4 EHS | A1          | T3b        | 34.98                   | 7.3                   | 21      |
|                          |                | 3/4 EHS | A1a         | T3b        | 34.98                   | 3.28                  | 9       |
|                          |                | 1 EHS   | A1          | 81         | 62.7                    | 12.67                 | 20      |
|                          | 271.95         | 1 EHS   | A1b         | 81a        | 62.7                    | 9.19                  | 15      |
|                          |                | 1 EHS   | A1a         | 81b        | 62.7                    | 5.84                  | 9       |
|                          |                | 1 EHS   | A1          | 97         | 62.7                    | 12.5                  | 20      |
|                          |                | 1 EHS   | A1b         | 97a        | 62.7                    | 9.18                  | 15      |
|                          | 319.75         | 1 EHS   | A1a         | 97b        | 62.7                    | 5.92                  | 9       |
|                          |                | 7/8 EHS | A1          | 113        | 47.82                   | 9.18                  | 19      |
|                          |                | 7/8 EHS | A1b         | 113a       | 47.82                   | 7.28                  | 15      |
|                          |                | 7/8 EHS | A1a         | 113b       | 47.82                   | 5.26                  | 11      |
| 1.0D + 1.0W Service 240° | 55.85          | 3/4 EHS | A1          | 21         | 34.98                   | 6.54                  | 19      |
|                          |                | 3/4 EHS | A1b         | 21a        | 34.98                   | 6.53                  | 19      |
|                          |                | 3/4 EHS | A1a         | 21b        | 34.98                   | 4.29                  | 12      |
|                          | 111.95         | 3/4 EHS | A1          | 41         | 34.98                   | 6.58                  | 19      |
|                          |                | 3/4 EHS | A1b         | 41a        | 34.98                   | 6.56                  | 19      |
|                          |                | 3/4 EHS | A1a         | 41b        | 34.98                   | 3.49                  | 10      |
|                          | 168.05         | 3/4 EHS | A1b         | T3         | 34.98                   | 6.63                  | 19      |
|                          |                | 3/4 EHS | A1          | T3         | 34.98                   | 6.18                  | 18      |
|                          |                | 3/4 EHS | A1b         | T3a        | 34.98                   | 6.22                  | 18      |
|                          |                | 3/4 EHS | A1a         | T3a        | 34.98                   | 3.24                  | 9       |
|                          | 224.15         | 3/4 EHS | A1a         | T3b        | 34.98                   | 2.89                  | 8       |
|                          |                | 3/4 EHS | A1          | T3b        | 34.98                   | 6.68                  | 19      |
|                          |                | 1 EHS   | A1          | 81         | 62.7                    | 11.2                  | 18      |
|                          |                | 1 EHS   | A1b         | 81a        | 62.7                    | 11.2                  | 18      |
|                          |                | 1 EHS   | A1a         | 81b        | 62.7                    | 5.26                  | 8       |

ASSET: 2543, Five Points  
CUSTOMER: T-MOBILE

CODE: ANSI/TIA-222-H  
PROJECT: 14910189\_C3\_03

| DETAILED CABLE FORCES    |                   |         |             |            |                            |                          |         |
|--------------------------|-------------------|---------|-------------|------------|----------------------------|--------------------------|---------|
| Load Case                | Elevation<br>(ft) | Cable   | Anchor Node | Tower Node | Available Tension<br>(kip) | Applied Tension<br>(kip) | Use (%) |
| 1.0D + 1.0W Service 300° | 271.95            | 1 EHS   | A1          | 97         | 62.7                       | 11.04                    | 18      |
|                          |                   | 1 EHS   | A1b         | 97a        | 62.7                       | 11.05                    | 18      |
|                          |                   | 1 EHS   | A1a         | 97b        | 62.7                       | 5.29                     | 8       |
|                          | 319.75            | 7/8 EHS | A1          | 113        | 47.82                      | 8.33                     | 17      |
|                          |                   | 7/8 EHS | A1b         | 113a       | 47.82                      | 8.34                     | 17      |
|                          |                   | 7/8 EHS | A1a         | 113b       | 47.82                      | 4.84                     | 10      |
|                          | 55.85             | 3/4 EHS | A1          | 21         | 34.98                      | 5.02                     | 14      |
|                          |                   | 3/4 EHS | A1b         | 21a        | 34.98                      | 7.19                     | 21      |
|                          |                   | 3/4 EHS | A1a         | 21b        | 34.98                      | 5.02                     | 14      |
|                          | 111.95            | 3/4 EHS | A1          | 41         | 34.98                      | 4.48                     | 13      |
|                          |                   | 3/4 EHS | A1b         | 41a        | 34.98                      | 7.5                      | 21      |
|                          |                   | 3/4 EHS | A1a         | 41b        | 34.98                      | 4.47                     | 13      |
|                          | 168.05            | 3/4 EHS | A1          | T3         | 34.98                      | 4                        | 11      |
|                          |                   | 3/4 EHS | A1b         | T3         | 34.98                      | 7.69                     | 22      |
|                          |                   | 3/4 EHS | A1b         | T3a        | 34.98                      | 7.19                     | 21      |
|                          | 224.15            | 3/4 EHS | A1a         | T3a        | 34.98                      | 4.39                     | 13      |
|                          |                   | 3/4 EHS | A1a         | T3b        | 34.98                      | 4.06                     | 12      |
|                          |                   | 3/4 EHS | A1          | T3b        | 34.98                      | 4.45                     | 13      |
|                          | 271.95            | 1 EHS   | A1          | 81         | 62.7                       | 7.27                     | 12      |
|                          |                   | 1 EHS   | A1b         | 81a        | 62.7                       | 13.24                    | 21      |
|                          |                   | 1 EHS   | A1a         | 81b        | 62.7                       | 7.27                     | 12      |
|                          | 319.75            | 1 EHS   | A1          | 97         | 62.7                       | 7.36                     | 12      |
|                          |                   | 1 EHS   | A1b         | 97a        | 62.7                       | 13.08                    | 21      |
|                          |                   | 1 EHS   | A1a         | 97b        | 62.7                       | 7.37                     | 12      |
| 1.0D + 1.0W Service 330° | 55.85             | 7/8 EHS | A1          | 113        | 47.82                      | 6.18                     | 13      |
|                          |                   | 7/8 EHS | A1b         | 113a       | 47.82                      | 9.53                     | 20      |
|                          |                   | 7/8 EHS | A1a         | 113b       | 47.82                      | 6.2                      | 13      |
|                          | 111.95            | 3/4 EHS | A1          | 21         | 34.98                      | 4.5                      | 13      |
|                          |                   | 3/4 EHS | A1b         | 21a        | 34.98                      | 7.02                     | 20      |
|                          |                   | 3/4 EHS | A1a         | 21b        | 34.98                      | 5.76                     | 16      |
|                          | 168.05            | 3/4 EHS | A1          | 41         | 34.98                      | 3.77                     | 11      |
|                          |                   | 3/4 EHS | A1b         | 41a        | 34.98                      | 7.26                     | 21      |
|                          |                   | 3/4 EHS | A1a         | 41b        | 34.98                      | 5.49                     | 16      |
|                          | 224.15            | 3/4 EHS | A1          | T3         | 34.98                      | 3.28                     | 9       |
|                          |                   | 3/4 EHS | A1b         | T3         | 34.98                      | 7.3                      | 21      |
|                          |                   | 3/4 EHS | A1b         | T3a        | 34.98                      | 7.03                     | 20      |
|                          | 271.95            | 3/4 EHS | A1a         | T3a        | 34.98                      | 5.39                     | 15      |
|                          |                   | 3/4 EHS | A1a         | T3b        | 34.98                      | 5.23                     | 15      |
|                          |                   | 3/4 EHS | A1          | T3b        | 34.98                      | 3.51                     | 10      |
|                          | 319.75            | 1 EHS   | A1          | 81         | 62.7                       | 5.84                     | 9       |
|                          |                   | 1 EHS   | A1b         | 81a        | 62.7                       | 12.67                    | 20      |
|                          |                   | 1 EHS   | A1a         | 81b        | 62.7                       | 9.19                     | 15      |
|                          | 7/8 EHS           | 1 EHS   | A1          | 97         | 62.7                       | 5.91                     | 9       |
|                          |                   | 1 EHS   | A1b         | 97a        | 62.7                       | 12.51                    | 20      |
|                          |                   | 1 EHS   | A1a         | 97b        | 62.7                       | 9.18                     | 15      |
|                          | 7/8 EHS           | 7/8 EHS | A1          | 113        | 47.82                      | 5.25                     | 11      |
|                          |                   | 7/8 EHS | A1b         | 113a       | 47.82                      | 9.19                     | 19      |
|                          |                   | 7/8 EHS | A1a         | 113b       | 47.82                      | 7.28                     | 15      |

| MAXIMUM CABLE FORCES SUMMARY |                |         |             |            |                         |                       |         |
|------------------------------|----------------|---------|-------------|------------|-------------------------|-----------------------|---------|
| Load Case                    | Elevation (ft) | Cable   | Anchor Node | Tower Node | Available Tension (kip) | Applied Tension (kip) | Use (%) |
| 1.2D + 1.0W 60°              | 55.85          | 3/4 EHS | A1a         | 21b        | 34.98                   | 12.72                 | 36      |
| 1.2D + 1.0W 60°              | 111.95         | 3/4 EHS | A1a         | 41b        | 34.98                   | 15.72                 | 45      |
| 1.2D + 1.0W 60°              | 168.05         | 3/4 EHS | A1a         | T3b        | 34.98                   | 17.85                 | 51      |
| 1.2D + 1.0W 60°              | 224.15         | 1 EHS   | A1a         | 81b        | 62.70                   | 30.55                 | 49      |
| 1.2D + 1.0W 60°              | 271.95         | 1 EHS   | A1a         | 97b        | 62.70                   | 30.44                 | 49      |
| 1.2D + 1.0W 60°              | 319.75         | 7/8 EHS | A1a         | 113b       | 47.82                   | 20.69                 | 43      |

| MAXIMUM TORQUE ARM STRESS SUMMARY |                |               |              |                 |             |
|-----------------------------------|----------------|---------------|--------------|-----------------|-------------|
| Load Case                         | Elevation (ft) | Member        | Type         | Compression (%) | Tension (%) |
| 1.2D + 1.0W Normal                | 56.00          | PL 3 x 0.375  | Horiz        | 0               | 23.3        |
| 1.2D + 1.0W Normal                | 112.00         | PL 3 x 0.375  | Horiz        | 0               | 23.5        |
| 1.2D + 1.0W 300°                  | 168.00         | 3.5X3.5X0.375 | Lower Kicker | 35.3            | 0           |
| 1.2D + 1.0W 90°                   | 168.00         | 2.5X2.5X0.25  | Horiz        | 27.7            | 0           |
| 1.2D + 1.0W 120°                  | 224.00         | PL 3 x 0.375  | Horiz        | 0               | 29.1        |
| 1.2D + 1.0W 120°                  | 272.00         | PL 3 x 0.375  | Horiz        | 0               | 25.8        |
| 1.2D + 1.0W 120°                  | 319.80         | PL 3 x 0.375  | Horiz        | 0               | 14.5        |

ASSET: 2543, Five Points  
CUSTOMER: T-MOBILE

CODE: ANSI/TIA-222-H  
PROJECT: 14910189\_C3\_03

| DEFLECTIONS AND ROTATIONS                        |                   |                    |                |               |                    |
|--------------------------------------------------|-------------------|--------------------|----------------|---------------|--------------------|
| Load Case                                        | Elevation<br>(ft) | Deflection<br>(ft) | Twist<br>(deg) | Sway<br>(deg) | Resultant<br>(deg) |
| 1.0D + 1.0W Service 330° 60 mph Wind with No Ice | 91.95             | 0.0666             | -0.0768        | 0.0242        | 0.0805             |
| 1.0D + 1.0W Service 330° 60 mph Wind with No Ice | 99.75             | 0.0696             | -0.0782        | 0.0110        | 0.0789             |
| 1.0D + 1.0W Service 330° 60 mph Wind with No Ice | 148.05            | 0.0918             | -0.0915        | 0.0215        | 0.094              |
| 1.0D + 1.0W Service 330° 60 mph Wind with No Ice | 155.85            | 0.0946             | -0.0915        | 0.0235        | 0.0943             |
| 1.0D + 1.0W Service 330° 60 mph Wind with No Ice | 168.05            | 0.0983             | -0.0919        | 0.0271        | 0.0958             |
| 1.0D + 1.0W Service 330° 60 mph Wind with No Ice | 184.15            | 0.1094             | -0.1073        | 0.0361        | 0.1132             |
| 1.0D + 1.0W Service 330° 60 mph Wind with No Ice | 188.05            | 0.1121             | -0.1102        | 0.0393        | 0.117              |
| 1.0D + 1.0W Service 330° 60 mph Wind with No Ice | 199.75            | 0.1194             | -0.1190        | 0.0355        | 0.1241             |
| 1.0D + 1.0W Service 330° 60 mph Wind with No Ice | 240.00            | 0.1442             | -0.1906        | 0.0777        | 0.2058             |
| 1.0D + 1.0W Service 330° 60 mph Wind with No Ice | 244.15            | 0.147              | -0.1954        | 0.0260        | 0.197              |
| 1.0D + 1.0W Service 330° 60 mph Wind with No Ice | 259.75            | 0.1525             | -0.2093        | 0.0194        | 0.2101             |
| 1.0D + 1.0W Service 330° 60 mph Wind with No Ice | 275.85            | 0.1509             | -0.2245        | 0.0220        | 0.2255             |
| 1.0D + 1.0W Service 330° 60 mph Wind with No Ice | 284.15            | 0.1499             | -0.2332        | 0.0323        | 0.2354             |
| 1.0D + 1.0W Service 330° 60 mph Wind with No Ice | 288.05            | 0.1482             | -0.2333        | 0.0332        | 0.2357             |
| 1.0D + 1.0W Service 330° 60 mph Wind with No Ice | 295.85            | 0.1434             | -0.2318        | 0.0464        | 0.2364             |
| 1.0D + 1.0W Service 330° 60 mph Wind with No Ice | 300.00            | 0.1397             | -0.2306        | 0.0768        | 0.243              |
| 1.0D + 1.0W Service 330° 60 mph Wind with No Ice | 300.25            | 0.1394             | -0.2305        | 0.0751        | 0.2424             |
| 1.0D + 1.0W Service 330° 60 mph Wind with No Ice | 304.15            | 0.1356             | -0.2295        | 0.0621        | 0.2377             |
| 1.0D + 1.0W Service 300° 60 mph Wind with No Ice | 91.95             | 0.0715             | -0.1651        | 0.0257        | 0.167              |
| 1.0D + 1.0W Service 300° 60 mph Wind with No Ice | 99.75             | 0.0747             | -0.1665        | 0.0137        | 0.167              |
| 1.0D + 1.0W Service 300° 60 mph Wind with No Ice | 148.05            | 0.0992             | -0.1796        | 0.0246        | 0.1813             |
| 1.0D + 1.0W Service 300° 60 mph Wind with No Ice | 155.85            | 0.1024             | -0.1788        | 0.0270        | 0.1805             |
| 1.0D + 1.0W Service 300° 60 mph Wind with No Ice | 168.05            | 0.1065             | -0.1788        | 0.0317        | 0.1816             |
| 1.0D + 1.0W Service 300° 60 mph Wind with No Ice | 184.15            | 0.1196             | -0.2064        | 0.0410        | 0.2104             |
| 1.0D + 1.0W Service 300° 60 mph Wind with No Ice | 188.05            | 0.1225             | -0.2119        | 0.0442        | 0.2164             |
| 1.0D + 1.0W Service 300° 60 mph Wind with No Ice | 199.75            | 0.1311             | -0.2280        | 0.0462        | 0.2326             |
| 1.0D + 1.0W Service 300° 60 mph Wind with No Ice | 240.00            | 0.1634             | -0.3582        | 0.0934        | 0.3702             |
| 1.0D + 1.0W Service 300° 60 mph Wind with No Ice | 244.15            | 0.167              | -0.3668        | 0.0344        | 0.3684             |
| 1.0D + 1.0W Service 300° 60 mph Wind with No Ice | 259.75            | 0.1756             | -0.3918        | 0.0124        | 0.392              |
| 1.0D + 1.0W Service 300° 60 mph Wind with No Ice | 275.85            | 0.1776             | -0.4188        | 0.0046        | 0.4188             |
| 1.0D + 1.0W Service 300° 60 mph Wind with No Ice | 284.15            | 0.1786             | -0.4348        | 0.0168        | 0.4351             |
| 1.0D + 1.0W Service 300° 60 mph Wind with No Ice | 288.05            | 0.1776             | -0.4354        | 0.0172        | 0.4358             |
| 1.0D + 1.0W Service 300° 60 mph Wind with No Ice | 295.85            | 0.1742             | -0.4336        | 0.0301        | 0.4346             |
| 1.0D + 1.0W Service 300° 60 mph Wind with No Ice | 300.00            | 0.1713             | -0.4319        | 0.0596        | 0.4358             |
| 1.0D + 1.0W Service 300° 60 mph Wind with No Ice | 300.25            | 0.1711             | -0.4318        | 0.0581        | 0.4355             |
| 1.0D + 1.0W Service 300° 60 mph Wind with No Ice | 304.15            | 0.1679             | -0.4305        | 0.0456        | 0.4329             |
| 1.0D + 1.0W Service 240° 60 mph Wind with No Ice | 91.95             | 0.073              | -0.1639        | 0.0244        | 0.1657             |
| 1.0D + 1.0W Service 240° 60 mph Wind with No Ice | 99.75             | 0.0762             | -0.1653        | 0.0124        | 0.1658             |
| 1.0D + 1.0W Service 240° 60 mph Wind with No Ice | 148.05            | 0.0973             | -0.1785        | 0.0184        | 0.1794             |
| 1.0D + 1.0W Service 240° 60 mph Wind with No Ice | 155.85            | 0.0995             | -0.1776        | 0.0185        | 0.1786             |
| 1.0D + 1.0W Service 240° 60 mph Wind with No Ice | 168.05            | 0.1021             | -0.1775        | 0.0244        | 0.1792             |
| 1.0D + 1.0W Service 240° 60 mph Wind with No Ice | 184.15            | 0.1129             | -0.2046        | 0.0315        | 0.207              |
| 1.0D + 1.0W Service 240° 60 mph Wind with No Ice | 188.05            | 0.1153             | -0.2099        | 0.0354        | 0.2129             |
| 1.0D + 1.0W Service 240° 60 mph Wind with No Ice | 199.75            | 0.1219             | -0.2255        | 0.0356        | 0.2283             |
| 1.0D + 1.0W Service 240° 60 mph Wind with No Ice | 240.00            | 0.143              | -0.3517        | 0.0713        | 0.3588             |
| 1.0D + 1.0W Service 240° 60 mph Wind with No Ice | 244.15            | 0.145              | -0.3598        | 0.0116        | 0.36               |
| 1.0D + 1.0W Service 240° 60 mph Wind with No Ice | 259.75            | 0.147              | -0.3829        | 0.0337        | 0.3834             |
| 1.0D + 1.0W Service 240° 60 mph Wind with No Ice | 275.85            | 0.1412             | -0.4081        | 0.0334        | 0.4092             |
| 1.0D + 1.0W Service 240° 60 mph Wind with No Ice | 284.15            | 0.1378             | -0.4243        | 0.0468        | 0.4267             |
| 1.0D + 1.0W Service 240° 60 mph Wind with No Ice | 288.05            | 0.1347             | -0.4249        | 0.0484        | 0.4277             |
| 1.0D + 1.0W Service 240° 60 mph Wind with No Ice | 295.85            | 0.1271             | -0.4232        | 0.0619        | 0.4277             |
| 1.0D + 1.0W Service 240° 60 mph Wind with No Ice | 300.00            | 0.1218             | -0.4215        | 0.0935        | 0.4314             |
| 1.0D + 1.0W Service 240° 60 mph Wind with No Ice | 300.25            | 0.1214             | -0.4214        | 0.0917        | 0.4311             |
| 1.0D + 1.0W Service 240° 60 mph Wind with No Ice | 304.15            | 0.1161             | -0.4202        | 0.0785        | 0.4274             |
| 1.0D + 1.0W Service 210° 60 mph Wind with No Ice | 91.95             | 0.0668             | -0.0734        | 0.0245        | 0.0773             |
| 1.0D + 1.0W Service 210° 60 mph Wind with No Ice | 99.75             | 0.0699             | -0.0747        | 0.0114        | 0.0755             |
| 1.0D + 1.0W Service 210° 60 mph Wind with No Ice | 148.05            | 0.0915             | -0.0874        | 0.0216        | 0.09               |
| 1.0D + 1.0W Service 210° 60 mph Wind with No Ice | 155.85            | 0.0947             | -0.0874        | 0.0228        | 0.0903             |
| 1.0D + 1.0W Service 210° 60 mph Wind with No Ice | 168.05            | 0.0984             | -0.0874        | 0.0266        | 0.0914             |

ASSET: 2543, Five Points  
CUSTOMER: T-MOBILE

CODE: ANSI/TIA-222-H  
PROJECT: 14910189\_C3\_03

| DEFLECTIONS AND ROTATIONS                        |                   |                    |                |               |                    |
|--------------------------------------------------|-------------------|--------------------|----------------|---------------|--------------------|
| Load Case                                        | Elevation<br>(ft) | Deflection<br>(ft) | Twist<br>(deg) | Sway<br>(deg) | Resultant<br>(deg) |
| 1.0D + 1.0W Service 210° 60 mph Wind with No Ice | 184.15            | 0.1086             | -0.1016        | 0.0343        | 0.1072             |
| 1.0D + 1.0W Service 210° 60 mph Wind with No Ice | 188.05            | 0.1119             | -0.1042        | 0.0385        | 0.1111             |
| 1.0D + 1.0W Service 210° 60 mph Wind with No Ice | 199.75            | 0.1192             | -0.1119        | 0.0350        | 0.1172             |
| 1.0D + 1.0W Service 210° 60 mph Wind with No Ice | 240.00            | 0.1425             | -0.1751        | 0.0759        | 0.1909             |
| 1.0D + 1.0W Service 210° 60 mph Wind with No Ice | 244.15            | 0.1464             | -0.1789        | 0.0258        | 0.1805             |
| 1.0D + 1.0W Service 210° 60 mph Wind with No Ice | 259.75            | 0.1517             | -0.1892        | 0.0183        | 0.1901             |
| 1.0D + 1.0W Service 210° 60 mph Wind with No Ice | 275.85            | 0.1498             | -0.2010        | 0.0226        | 0.2021             |
| 1.0D + 1.0W Service 210° 60 mph Wind with No Ice | 284.15            | 0.1487             | -0.2098        | 0.0334        | 0.2124             |
| 1.0D + 1.0W Service 210° 60 mph Wind with No Ice | 288.05            | 0.1469             | -0.2100        | 0.0345        | 0.2128             |
| 1.0D + 1.0W Service 210° 60 mph Wind with No Ice | 295.85            | 0.142              | -0.2086        | 0.0472        | 0.2138             |
| 1.0D + 1.0W Service 210° 60 mph Wind with No Ice | 300.00            | 0.1384             | -0.2075        | 0.0772        | 0.2213             |
| 1.0D + 1.0W Service 210° 60 mph Wind with No Ice | 300.25            | 0.138              | -0.2074        | 0.0755        | 0.2207             |
| 1.0D + 1.0W Service 210° 60 mph Wind with No Ice | 304.15            | 0.1342             | -0.2065        | 0.0628        | 0.2158             |
| 1.0D + 1.0W Service 180° 60 mph Wind with No Ice | 91.95             | 0.066              | 0.0027         | 0.0256        | 0.0257             |
| 1.0D + 1.0W Service 180° 60 mph Wind with No Ice | 99.75             | 0.0692             | 0.0027         | 0.0130        | 0.0133             |
| 1.0D + 1.0W Service 180° 60 mph Wind with No Ice | 148.05            | 0.0928             | 0.0030         | 0.0247        | 0.0249             |
| 1.0D + 1.0W Service 180° 60 mph Wind with No Ice | 155.85            | 0.0963             | 0.0030         | 0.0263        | 0.0265             |
| 1.0D + 1.0W Service 180° 60 mph Wind with No Ice | 168.05            | 0.1006             | 0.0032         | 0.0295        | 0.0297             |
| 1.0D + 1.0W Service 180° 60 mph Wind with No Ice | 184.15            | 0.1119             | 0.0040         | 0.0374        | 0.0376             |
| 1.0D + 1.0W Service 180° 60 mph Wind with No Ice | 188.05            | 0.1151             | 0.0043         | 0.0418        | 0.042              |
| 1.0D + 1.0W Service 180° 60 mph Wind with No Ice | 199.75            | 0.1231             | 0.0050         | 0.0355        | 0.0359             |
| 1.0D + 1.0W Service 180° 60 mph Wind with No Ice | 240.00            | 0.15               | 0.0103         | 0.0826        | 0.0832             |
| 1.0D + 1.0W Service 180° 60 mph Wind with No Ice | 244.15            | 0.1537             | 0.0113         | 0.0332        | 0.035              |
| 1.0D + 1.0W Service 180° 60 mph Wind with No Ice | 259.75            | 0.1614             | 0.0136         | 0.0020        | 0.0137             |
| 1.0D + 1.0W Service 180° 60 mph Wind with No Ice | 275.85            | 0.162              | 0.0155         | 0.0046        | 0.0161             |
| 1.0D + 1.0W Service 180° 60 mph Wind with No Ice | 284.15            | 0.1622             | 0.0157         | 0.0182        | 0.0238             |
| 1.0D + 1.0W Service 180° 60 mph Wind with No Ice | 288.05            | 0.1611             | 0.0157         | 0.0178        | 0.0238             |
| 1.0D + 1.0W Service 180° 60 mph Wind with No Ice | 295.85            | 0.1576             | 0.0157         | 0.0314        | 0.0351             |
| 1.0D + 1.0W Service 180° 60 mph Wind with No Ice | 300.00            | 0.1546             | 0.0154         | 0.0609        | 0.0627             |
| 1.0D + 1.0W Service 180° 60 mph Wind with No Ice | 300.25            | 0.1544             | 0.0154         | 0.0594        | 0.0613             |
| 1.0D + 1.0W Service 180° 60 mph Wind with No Ice | 304.15            | 0.1512             | 0.0154         | 0.0468        | 0.0492             |
| 1.0D + 1.0W Service 120° 60 mph Wind with No Ice | 91.95             | 0.0732             | 0.1668         | 0.0244        | 0.1686             |
| 1.0D + 1.0W Service 120° 60 mph Wind with No Ice | 99.75             | 0.0763             | 0.1682         | 0.0125        | 0.1687             |
| 1.0D + 1.0W Service 120° 60 mph Wind with No Ice | 148.05            | 0.0974             | 0.1816         | 0.0184        | 0.1826             |
| 1.0D + 1.0W Service 120° 60 mph Wind with No Ice | 155.85            | 0.0996             | 0.1808         | 0.0185        | 0.1817             |
| 1.0D + 1.0W Service 120° 60 mph Wind with No Ice | 168.05            | 0.1022             | 0.1809         | 0.0245        | 0.1825             |
| 1.0D + 1.0W Service 120° 60 mph Wind with No Ice | 184.15            | 0.113              | 0.2088         | 0.0316        | 0.2111             |
| 1.0D + 1.0W Service 120° 60 mph Wind with No Ice | 188.05            | 0.1154             | 0.2143         | 0.0355        | 0.2172             |
| 1.0D + 1.0W Service 120° 60 mph Wind with No Ice | 199.75            | 0.1221             | 0.2306         | 0.0360        | 0.2334             |
| 1.0D + 1.0W Service 120° 60 mph Wind with No Ice | 240.00            | 0.1434             | 0.3622         | 0.0722        | 0.3694             |
| 1.0D + 1.0W Service 120° 60 mph Wind with No Ice | 244.15            | 0.1454             | 0.3710         | 0.0118        | 0.3712             |
| 1.0D + 1.0W Service 120° 60 mph Wind with No Ice | 259.75            | 0.1475             | 0.3963         | 0.0346        | 0.3967             |
| 1.0D + 1.0W Service 120° 60 mph Wind with No Ice | 275.85            | 0.1417             | 0.4236         | 0.0333        | 0.4246             |
| 1.0D + 1.0W Service 120° 60 mph Wind with No Ice | 284.15            | 0.1384             | 0.4398         | 0.0467        | 0.4422             |
| 1.0D + 1.0W Service 120° 60 mph Wind with No Ice | 288.05            | 0.1353             | 0.4405         | 0.0483        | 0.4431             |
| 1.0D + 1.0W Service 120° 60 mph Wind with No Ice | 295.85            | 0.1277             | 0.4386         | 0.0618        | 0.4429             |
| 1.0D + 1.0W Service 120° 60 mph Wind with No Ice | 300.00            | 0.1224             | 0.4369         | 0.0935        | 0.4465             |
| 1.0D + 1.0W Service 120° 60 mph Wind with No Ice | 300.25            | 0.122              | 0.4368         | 0.0917        | 0.4461             |
| 1.0D + 1.0W Service 120° 60 mph Wind with No Ice | 304.15            | 0.1167             | 0.4355         | 0.0785        | 0.4425             |
| 1.0D + 1.0W Service 90° 60 mph Wind with No Ice  | 91.95             | 0.0734             | 0.2088         | 0.0243        | 0.2102             |
| 1.0D + 1.0W Service 90° 60 mph Wind with No Ice  | 99.75             | 0.0765             | 0.2098         | 0.0130        | 0.2102             |
| 1.0D + 1.0W Service 90° 60 mph Wind with No Ice  | 148.05            | 0.0988             | 0.2195         | 0.0213        | 0.2205             |
| 1.0D + 1.0W Service 90° 60 mph Wind with No Ice  | 155.85            | 0.1014             | 0.2180         | 0.0233        | 0.2191             |
| 1.0D + 1.0W Service 90° 60 mph Wind with No Ice  | 168.05            | 0.1046             | 0.2178         | 0.0290        | 0.2197             |
| 1.0D + 1.0W Service 90° 60 mph Wind with No Ice  | 184.15            | 0.1171             | 0.2504         | 0.0374        | 0.2531             |
| 1.0D + 1.0W Service 90° 60 mph Wind with No Ice  | 188.05            | 0.1199             | 0.2569         | 0.0411        | 0.2601             |
| 1.0D + 1.0W Service 90° 60 mph Wind with No Ice  | 199.75            | 0.1278             | 0.2762         | 0.0455        | 0.2799             |
| 1.0D + 1.0W Service 90° 60 mph Wind with No Ice  | 240.00            | 0.1569             | 0.4307         | 0.0876        | 0.4396             |
| 1.0D + 1.0W Service 90° 60 mph Wind with No Ice  | 244.15            | 0.1599             | 0.4409         | 0.0267        | 0.4417             |

ASSET: 2543, Five Points  
CUSTOMER: T-MOBILE

CODE: ANSI/TIA-222-H  
PROJECT: 14910189\_C3\_03

| DEFLECTIONS AND ROTATIONS                          |                   |                    |                |               |                    |
|----------------------------------------------------|-------------------|--------------------|----------------|---------------|--------------------|
| Load Case                                          | Elevation<br>(ft) | Deflection<br>(ft) | Twist<br>(deg) | Sway<br>(deg) | Resultant<br>(deg) |
| 1.0D + 1.0W Service 90° 60 mph Wind with No Ice    | 259.75            | 0.1661             | 0.4704         | 0.0285        | 0.4706             |
| 1.0D + 1.0W Service 90° 60 mph Wind with No Ice    | 275.85            | 0.1651             | 0.5021         | 0.0227        | 0.5023             |
| 1.0D + 1.0W Service 90° 60 mph Wind with No Ice    | 284.15            | 0.1646             | 0.5212         | 0.0335        | 0.5221             |
| 1.0D + 1.0W Service 90° 60 mph Wind with No Ice    | 288.05            | 0.1628             | 0.5221         | 0.0351        | 0.5233             |
| 1.0D + 1.0W Service 90° 60 mph Wind with No Ice    | 295.85            | 0.1578             | 0.5204         | 0.0475        | 0.5225             |
| 1.0D + 1.0W Service 90° 60 mph Wind with No Ice    | 300.00            | 0.154              | 0.5187         | 0.0758        | 0.5241             |
| 1.0D + 1.0W Service 90° 60 mph Wind with No Ice    | 300.25            | 0.1537             | 0.5186         | 0.0743        | 0.5238             |
| 1.0D + 1.0W Service 90° 60 mph Wind with No Ice    | 304.15            | 0.1497             | 0.5173         | 0.0631        | 0.5211             |
| 1.0D + 1.0W Service 60° 60 mph Wind with No Ice    | 91.95             | 0.0714             | 0.1622         | 0.0257        | 0.1642             |
| 1.0D + 1.0W Service 60° 60 mph Wind with No Ice    | 99.75             | 0.0746             | 0.1635         | 0.0137        | 0.1641             |
| 1.0D + 1.0W Service 60° 60 mph Wind with No Ice    | 148.05            | 0.0991             | 0.1764         | 0.0246        | 0.1781             |
| 1.0D + 1.0W Service 60° 60 mph Wind with No Ice    | 155.85            | 0.1022             | 0.1756         | 0.0270        | 0.1773             |
| 1.0D + 1.0W Service 60° 60 mph Wind with No Ice    | 168.05            | 0.1064             | 0.1754         | 0.0316        | 0.1782             |
| 1.0D + 1.0W Service 60° 60 mph Wind with No Ice    | 184.15            | 0.1194             | 0.2022         | 0.0409        | 0.2063             |
| 1.0D + 1.0W Service 60° 60 mph Wind with No Ice    | 188.05            | 0.1224             | 0.2075         | 0.0441        | 0.2121             |
| 1.0D + 1.0W Service 60° 60 mph Wind with No Ice    | 199.75            | 0.1309             | 0.2229         | 0.0457        | 0.2275             |
| 1.0D + 1.0W Service 60° 60 mph Wind with No Ice    | 240.00            | 0.163              | 0.3475         | 0.0924        | 0.3596             |
| 1.0D + 1.0W Service 60° 60 mph Wind with No Ice    | 244.15            | 0.1666             | 0.3555         | 0.0343        | 0.3571             |
| 1.0D + 1.0W Service 60° 60 mph Wind with No Ice    | 259.75            | 0.1752             | 0.3783         | 0.0115        | 0.3784             |
| 1.0D + 1.0W Service 60° 60 mph Wind with No Ice    | 275.85            | 0.177              | 0.4030         | 0.0044        | 0.403              |
| 1.0D + 1.0W Service 60° 60 mph Wind with No Ice    | 284.15            | 0.1781             | 0.4190         | 0.0167        | 0.4193             |
| 1.0D + 1.0W Service 60° 60 mph Wind with No Ice    | 288.05            | 0.1771             | 0.4197         | 0.0171        | 0.4201             |
| 1.0D + 1.0W Service 60° 60 mph Wind with No Ice    | 295.85            | 0.1737             | 0.4179         | 0.0300        | 0.419              |
| 1.0D + 1.0W Service 60° 60 mph Wind with No Ice    | 300.00            | 0.1708             | 0.4163         | 0.0596        | 0.4204             |
| 1.0D + 1.0W Service 60° 60 mph Wind with No Ice    | 300.25            | 0.1706             | 0.4162         | 0.0580        | 0.4201             |
| 1.0D + 1.0W Service 60° 60 mph Wind with No Ice    | 304.15            | 0.1674             | 0.4149         | 0.0455        | 0.4174             |
| 1.0D + 1.0W Service Normal 60 mph Wind with No Ice | 91.95             | 0.0672             | -0.0024        | 0.0241        | 0.0242             |
| 1.0D + 1.0W Service Normal 60 mph Wind with No Ice | 99.75             | 0.0701             | -0.0024        | 0.0112        | 0.0114             |
| 1.0D + 1.0W Service Normal 60 mph Wind with No Ice | 148.05            | 0.0906             | -0.0027        | 0.0179        | 0.0181             |
| 1.0D + 1.0W Service Normal 60 mph Wind with No Ice | 155.85            | 0.0929             | -0.0028        | 0.0187        | 0.0189             |
| 1.0D + 1.0W Service Normal 60 mph Wind with No Ice | 168.05            | 0.0959             | -0.0029        | 0.0225        | 0.0227             |
| 1.0D + 1.0W Service Normal 60 mph Wind with No Ice | 184.15            | 0.1052             | -0.0037        | 0.0302        | 0.0305             |
| 1.0D + 1.0W Service Normal 60 mph Wind with No Ice | 188.05            | 0.1074             | -0.0040        | 0.0331        | 0.0333             |
| 1.0D + 1.0W Service Normal 60 mph Wind with No Ice | 199.75            | 0.1134             | -0.0047        | 0.0247        | 0.0251             |
| 1.0D + 1.0W Service Normal 60 mph Wind with No Ice | 240.00            | 0.1295             | -0.0097        | 0.0603        | 0.0611             |
| 1.0D + 1.0W Service Normal 60 mph Wind with No Ice | 244.15            | 0.1314             | -0.0107        | 0.0111        | 0.0154             |
| 1.0D + 1.0W Service Normal 60 mph Wind with No Ice | 259.75            | 0.1326             | -0.0129        | 0.0268        | 0.0295             |
| 1.0D + 1.0W Service Normal 60 mph Wind with No Ice | 275.85            | 0.1257             | -0.0147        | 0.0336        | 0.0366             |
| 1.0D + 1.0W Service Normal 60 mph Wind with No Ice | 284.15            | 0.1217             | -0.0149        | 0.0467        | 0.0489             |
| 1.0D + 1.0W Service Normal 60 mph Wind with No Ice | 288.05            | 0.1186             | -0.0149        | 0.0476        | 0.0499             |
| 1.0D + 1.0W Service Normal 60 mph Wind with No Ice | 295.85            | 0.1109             | -0.0149        | 0.0618        | 0.0636             |
| 1.0D + 1.0W Service Normal 60 mph Wind with No Ice | 300.00            | 0.1057             | -0.0146        | 0.0940        | 0.0951             |
| 1.0D + 1.0W Service Normal 60 mph Wind with No Ice | 300.25            | 0.1053             | -0.0146        | 0.0922        | 0.0933             |
| 1.0D + 1.0W Service Normal 60 mph Wind with No Ice | 304.15            | 0.0999             | -0.0146        | 0.0785        | 0.0798             |
| 1.2D + 1.0Ev + 1.0Eh 330° Seismic                  | 91.95             | 0.0028             | 0.0000         | 0.0027        | 0.0027             |
| 1.2D + 1.0Ev + 1.0Eh 330° Seismic                  | 99.75             | 0.0031             | 0.0000         | 0.0023        | 0.0023             |
| 1.2D + 1.0Ev + 1.0Eh 330° Seismic                  | 148.05            | 0.0064             | 0.0000         | 0.0045        | 0.0045             |
| 1.2D + 1.0Ev + 1.0Eh 330° Seismic                  | 155.85            | 0.007              | 0.0000         | 0.0062        | 0.0062             |
| 1.2D + 1.0Ev + 1.0Eh 330° Seismic                  | 168.05            | 0.0082             | 0.0000         | 0.0071        | 0.0071             |
| 1.2D + 1.0Ev + 1.0Eh 330° Seismic                  | 184.15            | 0.0105             | 0.0000         | 0.0090        | 0.009              |
| 1.2D + 1.0Ev + 1.0Eh 330° Seismic                  | 188.05            | 0.0111             | 0.0000         | 0.0092        | 0.0092             |
| 1.2D + 1.0Ev + 1.0Eh 330° Seismic                  | 199.75            | 0.0129             | 0.0000         | 0.0099        | 0.0099             |
| 1.2D + 1.0Ev + 1.0Eh 330° Seismic                  | 240.00            | 0.0207             | 0.0000         | 0.0183        | 0.0183             |
| 1.2D + 1.0Ev + 1.0Eh 330° Seismic                  | 244.15            | 0.0217             | 0.0001         | 0.0119        | 0.0119             |
| 1.2D + 1.0Ev + 1.0Eh 330° Seismic                  | 259.75            | 0.0247             | 0.0001         | 0.0082        | 0.0082             |
| 1.2D + 1.0Ev + 1.0Eh 330° Seismic                  | 275.85            | 0.027              | 0.0000         | 0.0098        | 0.0098             |
| 1.2D + 1.0Ev + 1.0Eh 330° Seismic                  | 284.15            | 0.0283             | 0.0001         | 0.0066        | 0.0066             |
| 1.2D + 1.0Ev + 1.0Eh 330° Seismic                  | 288.05            | 0.0288             | 0.0001         | 0.0070        | 0.007              |
| 1.2D + 1.0Ev + 1.0Eh 330° Seismic                  | 295.85            | 0.0295             | 0.0001         | 0.0049        | 0.0049             |

ASSET: 2543, Five Points

CODE: ANSI/TIA-222-H

CUSTOMER: T-MOBILE

PROJECT: 14910189\_C3\_03

| DEFLECTIONS AND ROTATIONS         |                   |                    |                |               |                    |
|-----------------------------------|-------------------|--------------------|----------------|---------------|--------------------|
| Load Case                         | Elevation<br>(ft) | Deflection<br>(ft) | Twist<br>(deg) | Sway<br>(deg) | Resultant<br>(deg) |
| 1.2D + 1.0Ev + 1.0Eh 330° Seismic | 300.00            | 0.0298             | 0.0001         | 0.0014        | 0.0014             |
| 1.2D + 1.0Ev + 1.0Eh 330° Seismic | 300.25            | 0.0298             | 0.0001         | 0.0014        | 0.0014             |
| 1.2D + 1.0Ev + 1.0Eh 330° Seismic | 304.15            | 0.0299             | 0.0001         | 0.0023        | 0.0023             |
| 1.2D + 1.0Ev + 1.0Eh 300° Seismic | 91.95             | 0.0028             | 0.0000         | 0.0026        | 0.0026             |
| 1.2D + 1.0Ev + 1.0Eh 300° Seismic | 99.75             | 0.003              | 0.0000         | 0.0023        | 0.0023             |
| 1.2D + 1.0Ev + 1.0Eh 300° Seismic | 148.05            | 0.0063             | 0.0000         | 0.0046        | 0.0046             |
| 1.2D + 1.0Ev + 1.0Eh 300° Seismic | 155.85            | 0.0069             | 0.0000         | 0.0063        | 0.0063             |
| 1.2D + 1.0Ev + 1.0Eh 300° Seismic | 168.05            | 0.0081             | 0.0000         | 0.0071        | 0.0071             |
| 1.2D + 1.0Ev + 1.0Eh 300° Seismic | 184.15            | 0.0104             | 0.0000         | 0.0087        | 0.0087             |
| 1.2D + 1.0Ev + 1.0Eh 300° Seismic | 188.05            | 0.011              | 0.0000         | 0.0092        | 0.0092             |
| 1.2D + 1.0Ev + 1.0Eh 300° Seismic | 199.75            | 0.0128             | 0.0000         | 0.0095        | 0.0095             |
| 1.2D + 1.0Ev + 1.0Eh 300° Seismic | 240.00            | 0.0205             | 0.0000         | 0.0177        | 0.0177             |
| 1.2D + 1.0Ev + 1.0Eh 300° Seismic | 244.15            | 0.0215             | 0.0000         | 0.0118        | 0.0118             |
| 1.2D + 1.0Ev + 1.0Eh 300° Seismic | 259.75            | 0.0245             | 0.0001         | 0.0081        | 0.0081             |
| 1.2D + 1.0Ev + 1.0Eh 300° Seismic | 275.85            | 0.0268             | 0.0000         | 0.0100        | 0.01               |
| 1.2D + 1.0Ev + 1.0Eh 300° Seismic | 284.15            | 0.0281             | 0.0001         | 0.0066        | 0.0066             |
| 1.2D + 1.0Ev + 1.0Eh 300° Seismic | 288.05            | 0.0286             | 0.0001         | 0.0070        | 0.007              |
| 1.2D + 1.0Ev + 1.0Eh 300° Seismic | 295.85            | 0.0293             | 0.0001         | 0.0049        | 0.0049             |
| 1.2D + 1.0Ev + 1.0Eh 300° Seismic | 300.00            | 0.0295             | 0.0001         | 0.0012        | 0.0012             |
| 1.2D + 1.0Ev + 1.0Eh 300° Seismic | 300.25            | 0.0296             | 0.0001         | 0.0013        | 0.0013             |
| 1.2D + 1.0Ev + 1.0Eh 300° Seismic | 304.15            | 0.0297             | 0.0001         | 0.0022        | 0.0022             |
| 1.2D + 1.0Ev + 1.0Eh 240° Seismic | 91.95             | 0.0029             | 0.0000         | 0.0028        | 0.0028             |
| 1.2D + 1.0Ev + 1.0Eh 240° Seismic | 99.75             | 0.0031             | 0.0000         | 0.0023        | 0.0023             |
| 1.2D + 1.0Ev + 1.0Eh 240° Seismic | 148.05            | 0.0062             | 0.0000         | 0.0051        | 0.0051             |
| 1.2D + 1.0Ev + 1.0Eh 240° Seismic | 155.85            | 0.0071             | 0.0000         | 0.0060        | 0.006              |
| 1.2D + 1.0Ev + 1.0Eh 240° Seismic | 168.05            | 0.0083             | 0.0000         | 0.0070        | 0.007              |
| 1.2D + 1.0Ev + 1.0Eh 240° Seismic | 184.15            | 0.0104             | 0.0000         | 0.0082        | 0.0082             |
| 1.2D + 1.0Ev + 1.0Eh 240° Seismic | 188.05            | 0.0112             | 0.0000         | 0.0092        | 0.0092             |
| 1.2D + 1.0Ev + 1.0Eh 240° Seismic | 199.75            | 0.013              | 0.0000         | 0.0101        | 0.0101             |
| 1.2D + 1.0Ev + 1.0Eh 240° Seismic | 240.00            | 0.0208             | 0.0000         | 0.0180        | 0.018              |
| 1.2D + 1.0Ev + 1.0Eh 240° Seismic | 244.15            | 0.0219             | 0.0000         | 0.0120        | 0.012              |
| 1.2D + 1.0Ev + 1.0Eh 240° Seismic | 259.75            | 0.0249             | 0.0001         | 0.0083        | 0.0083             |
| 1.2D + 1.0Ev + 1.0Eh 240° Seismic | 275.85            | 0.0272             | 0.0000         | 0.0094        | 0.0094             |
| 1.2D + 1.0Ev + 1.0Eh 240° Seismic | 284.15            | 0.0285             | 0.0001         | 0.0066        | 0.0066             |
| 1.2D + 1.0Ev + 1.0Eh 240° Seismic | 288.05            | 0.029              | 0.0001         | 0.0070        | 0.007              |
| 1.2D + 1.0Ev + 1.0Eh 240° Seismic | 295.85            | 0.0297             | 0.0001         | 0.0049        | 0.0049             |
| 1.2D + 1.0Ev + 1.0Eh 240° Seismic | 300.00            | 0.03               | 0.0001         | 0.0014        | 0.0014             |
| 1.2D + 1.0Ev + 1.0Eh 240° Seismic | 300.25            | 0.03               | 0.0001         | 0.0014        | 0.0014             |
| 1.2D + 1.0Ev + 1.0Eh 240° Seismic | 304.15            | 0.0302             | 0.0001         | 0.0024        | 0.0024             |
| 1.2D + 1.0Ev + 1.0Eh 210° Seismic | 91.95             | 0.0028             | 0.0000         | 0.0027        | 0.0027             |
| 1.2D + 1.0Ev + 1.0Eh 210° Seismic | 99.75             | 0.0031             | 0.0000         | 0.0023        | 0.0023             |
| 1.2D + 1.0Ev + 1.0Eh 210° Seismic | 148.05            | 0.0061             | 0.0000         | 0.0052        | 0.0052             |
| 1.2D + 1.0Ev + 1.0Eh 210° Seismic | 155.85            | 0.007              | 0.0000         | 0.0062        | 0.0062             |
| 1.2D + 1.0Ev + 1.0Eh 210° Seismic | 168.05            | 0.0082             | 0.0000         | 0.0071        | 0.0071             |
| 1.2D + 1.0Ev + 1.0Eh 210° Seismic | 184.15            | 0.0102             | 0.0000         | 0.0078        | 0.0078             |
| 1.2D + 1.0Ev + 1.0Eh 210° Seismic | 188.05            | 0.0111             | 0.0000         | 0.0092        | 0.0092             |
| 1.2D + 1.0Ev + 1.0Eh 210° Seismic | 199.75            | 0.0129             | 0.0000         | 0.0099        | 0.0099             |
| 1.2D + 1.0Ev + 1.0Eh 210° Seismic | 240.00            | 0.0206             | 0.0000         | 0.0186        | 0.0186             |
| 1.2D + 1.0Ev + 1.0Eh 210° Seismic | 244.15            | 0.0217             | 0.0001         | 0.0119        | 0.0119             |
| 1.2D + 1.0Ev + 1.0Eh 210° Seismic | 259.75            | 0.0247             | 0.0001         | 0.0082        | 0.0082             |
| 1.2D + 1.0Ev + 1.0Eh 210° Seismic | 275.85            | 0.027              | 0.0000         | 0.0098        | 0.0098             |
| 1.2D + 1.0Ev + 1.0Eh 210° Seismic | 284.15            | 0.0283             | 0.0001         | 0.0066        | 0.0066             |
| 1.2D + 1.0Ev + 1.0Eh 210° Seismic | 288.05            | 0.0288             | 0.0001         | 0.0070        | 0.007              |
| 1.2D + 1.0Ev + 1.0Eh 210° Seismic | 295.85            | 0.0295             | 0.0001         | 0.0049        | 0.0049             |
| 1.2D + 1.0Ev + 1.0Eh 210° Seismic | 300.00            | 0.0298             | 0.0001         | 0.0014        | 0.0014             |
| 1.2D + 1.0Ev + 1.0Eh 210° Seismic | 300.25            | 0.0298             | 0.0001         | 0.0014        | 0.0014             |
| 1.2D + 1.0Ev + 1.0Eh 210° Seismic | 304.15            | 0.0299             | 0.0001         | 0.0023        | 0.0023             |
| 1.2D + 1.0Ev + 1.0Eh 180° Seismic | 91.95             | 0.0028             | 0.0000         | 0.0026        | 0.0026             |
| 1.2D + 1.0Ev + 1.0Eh 180° Seismic | 99.75             | 0.003              | 0.0000         | 0.0023        | 0.0023             |

ASSET: 2543, Five Points  
CUSTOMER: T-MOBILE

CODE: ANSI/TIA-222-H  
PROJECT: 14910189\_C3\_03

| DEFLECTIONS AND ROTATIONS         |                   |                    |                |               |                    |
|-----------------------------------|-------------------|--------------------|----------------|---------------|--------------------|
| Load Case                         | Elevation<br>(ft) | Deflection<br>(ft) | Twist<br>(deg) | Sway<br>(deg) | Resultant<br>(deg) |
| 1.2D + 1.0Ev + 1.0Eh 180° Seismic | 148.05            | 0.006              | 0.0000         | 0.0052        | 0.0052             |
| 1.2D + 1.0Ev + 1.0Eh 180° Seismic | 155.85            | 0.0069             | 0.0000         | 0.0063        | 0.0063             |
| 1.2D + 1.0Ev + 1.0Eh 180° Seismic | 168.05            | 0.0081             | 0.0000         | 0.0071        | 0.0071             |
| 1.2D + 1.0Ev + 1.0Eh 180° Seismic | 184.15            | 0.0102             | 0.0000         | 0.0077        | 0.0077             |
| 1.2D + 1.0Ev + 1.0Eh 180° Seismic | 188.05            | 0.011              | 0.0000         | 0.0092        | 0.0092             |
| 1.2D + 1.0Ev + 1.0Eh 180° Seismic | 199.75            | 0.0128             | 0.0000         | 0.0095        | 0.0095             |
| 1.2D + 1.0Ev + 1.0Eh 180° Seismic | 240.00            | 0.0205             | 0.0000         | 0.0188        | 0.0188             |
| 1.2D + 1.0Ev + 1.0Eh 180° Seismic | 244.15            | 0.0215             | 0.0000         | 0.0118        | 0.0118             |
| 1.2D + 1.0Ev + 1.0Eh 180° Seismic | 259.75            | 0.0245             | 0.0001         | 0.0081        | 0.0081             |
| 1.2D + 1.0Ev + 1.0Eh 180° Seismic | 275.85            | 0.0268             | 0.0000         | 0.0100        | 0.01               |
| 1.2D + 1.0Ev + 1.0Eh 180° Seismic | 284.15            | 0.0281             | 0.0001         | 0.0066        | 0.0066             |
| 1.2D + 1.0Ev + 1.0Eh 180° Seismic | 288.05            | 0.0286             | 0.0001         | 0.0070        | 0.007              |
| 1.2D + 1.0Ev + 1.0Eh 180° Seismic | 295.85            | 0.0293             | 0.0001         | 0.0049        | 0.0049             |
| 1.2D + 1.0Ev + 1.0Eh 180° Seismic | 300.00            | 0.0295             | 0.0001         | 0.0012        | 0.0012             |
| 1.2D + 1.0Ev + 1.0Eh 180° Seismic | 300.25            | 0.0296             | 0.0001         | 0.0013        | 0.0013             |
| 1.2D + 1.0Ev + 1.0Eh 180° Seismic | 304.15            | 0.0297             | 0.0001         | 0.0022        | 0.0022             |
| 1.2D + 1.0Ev + 1.0Eh 120° Seismic | 91.95             | 0.0029             | 0.0000         | 0.0028        | 0.0028             |
| 1.2D + 1.0Ev + 1.0Eh 120° Seismic | 99.75             | 0.0031             | 0.0000         | 0.0023        | 0.0023             |
| 1.2D + 1.0Ev + 1.0Eh 120° Seismic | 148.05            | 0.0062             | 0.0000         | 0.0051        | 0.0051             |
| 1.2D + 1.0Ev + 1.0Eh 120° Seismic | 155.85            | 0.0071             | 0.0000         | 0.0060        | 0.006              |
| 1.2D + 1.0Ev + 1.0Eh 120° Seismic | 168.05            | 0.0083             | 0.0000         | 0.0070        | 0.007              |
| 1.2D + 1.0Ev + 1.0Eh 120° Seismic | 184.15            | 0.0104             | 0.0000         | 0.0082        | 0.0082             |
| 1.2D + 1.0Ev + 1.0Eh 120° Seismic | 188.05            | 0.0112             | 0.0000         | 0.0092        | 0.0092             |
| 1.2D + 1.0Ev + 1.0Eh 120° Seismic | 199.75            | 0.013              | 0.0000         | 0.0101        | 0.0101             |
| 1.2D + 1.0Ev + 1.0Eh 120° Seismic | 240.00            | 0.0208             | 0.0000         | 0.0180        | 0.018              |
| 1.2D + 1.0Ev + 1.0Eh 120° Seismic | 244.15            | 0.0219             | 0.0000         | 0.0120        | 0.012              |
| 1.2D + 1.0Ev + 1.0Eh 120° Seismic | 259.75            | 0.0249             | 0.0001         | 0.0083        | 0.0083             |
| 1.2D + 1.0Ev + 1.0Eh 120° Seismic | 275.85            | 0.0272             | 0.0000         | 0.0094        | 0.0094             |
| 1.2D + 1.0Ev + 1.0Eh 120° Seismic | 284.15            | 0.0285             | 0.0001         | 0.0066        | 0.0066             |
| 1.2D + 1.0Ev + 1.0Eh 120° Seismic | 288.05            | 0.029              | 0.0001         | 0.0070        | 0.007              |
| 1.2D + 1.0Ev + 1.0Eh 120° Seismic | 295.85            | 0.0297             | 0.0001         | 0.0049        | 0.0049             |
| 1.2D + 1.0Ev + 1.0Eh 120° Seismic | 300.00            | 0.03               | 0.0001         | 0.0014        | 0.0014             |
| 1.2D + 1.0Ev + 1.0Eh 120° Seismic | 300.25            | 0.03               | 0.0001         | 0.0014        | 0.0014             |
| 1.2D + 1.0Ev + 1.0Eh 120° Seismic | 304.15            | 0.0302             | 0.0001         | 0.0024        | 0.0024             |
| 1.2D + 1.0Ev + 1.0Eh 90° Seismic  | 91.95             | 0.0028             | 0.0000         | 0.0027        | 0.0027             |
| 1.2D + 1.0Ev + 1.0Eh 90° Seismic  | 99.75             | 0.0031             | 0.0000         | 0.0023        | 0.0023             |
| 1.2D + 1.0Ev + 1.0Eh 90° Seismic  | 148.05            | 0.0062             | 0.0000         | 0.0048        | 0.0048             |
| 1.2D + 1.0Ev + 1.0Eh 90° Seismic  | 155.85            | 0.007              | 0.0000         | 0.0062        | 0.0062             |
| 1.2D + 1.0Ev + 1.0Eh 90° Seismic  | 168.05            | 0.0082             | 0.0000         | 0.0071        | 0.0071             |
| 1.2D + 1.0Ev + 1.0Eh 90° Seismic  | 184.15            | 0.0104             | 0.0000         | 0.0085        | 0.0085             |
| 1.2D + 1.0Ev + 1.0Eh 90° Seismic  | 188.05            | 0.0111             | 0.0000         | 0.0092        | 0.0092             |
| 1.2D + 1.0Ev + 1.0Eh 90° Seismic  | 199.75            | 0.0129             | 0.0000         | 0.0099        | 0.0099             |
| 1.2D + 1.0Ev + 1.0Eh 90° Seismic  | 240.00            | 0.0207             | 0.0000         | 0.0176        | 0.0176             |
| 1.2D + 1.0Ev + 1.0Eh 90° Seismic  | 244.15            | 0.0217             | 0.0001         | 0.0119        | 0.0119             |
| 1.2D + 1.0Ev + 1.0Eh 90° Seismic  | 259.75            | 0.0247             | 0.0001         | 0.0082        | 0.0082             |
| 1.2D + 1.0Ev + 1.0Eh 90° Seismic  | 275.85            | 0.027              | 0.0000         | 0.0098        | 0.0098             |
| 1.2D + 1.0Ev + 1.0Eh 90° Seismic  | 284.15            | 0.0283             | 0.0001         | 0.0066        | 0.0066             |
| 1.2D + 1.0Ev + 1.0Eh 90° Seismic  | 288.05            | 0.0288             | 0.0001         | 0.0070        | 0.007              |
| 1.2D + 1.0Ev + 1.0Eh 90° Seismic  | 295.85            | 0.0295             | 0.0001         | 0.0049        | 0.0049             |
| 1.2D + 1.0Ev + 1.0Eh 90° Seismic  | 300.00            | 0.0298             | 0.0001         | 0.0014        | 0.0014             |
| 1.2D + 1.0Ev + 1.0Eh 90° Seismic  | 300.25            | 0.0298             | 0.0001         | 0.0014        | 0.0014             |
| 1.2D + 1.0Ev + 1.0Eh 90° Seismic  | 304.15            | 0.0299             | 0.0001         | 0.0023        | 0.0023             |
| 1.2D + 1.0Ev + 1.0Eh 60° Seismic  | 91.95             | 0.0028             | 0.0000         | 0.0026        | 0.0026             |
| 1.2D + 1.0Ev + 1.0Eh 60° Seismic  | 99.75             | 0.003              | 0.0000         | 0.0023        | 0.0023             |
| 1.2D + 1.0Ev + 1.0Eh 60° Seismic  | 148.05            | 0.0063             | 0.0000         | 0.0046        | 0.0046             |
| 1.2D + 1.0Ev + 1.0Eh 60° Seismic  | 155.85            | 0.0069             | 0.0000         | 0.0063        | 0.0063             |
| 1.2D + 1.0Ev + 1.0Eh 60° Seismic  | 168.05            | 0.0081             | 0.0000         | 0.0071        | 0.0071             |
| 1.2D + 1.0Ev + 1.0Eh 60° Seismic  | 184.15            | 0.0104             | 0.0000         | 0.0087        | 0.0087             |
| 1.2D + 1.0Ev + 1.0Eh 60° Seismic  | 188.05            | 0.011              | 0.0000         | 0.0092        | 0.0092             |

ASSET: 2543, Five Points  
CUSTOMER: T-MOBILE

CODE: ANSI/TIA-222-H  
PROJECT: 14910189\_C3\_03

| DEFLECTIONS AND ROTATIONS                                |                   |                    |                |               |                    |
|----------------------------------------------------------|-------------------|--------------------|----------------|---------------|--------------------|
| Load Case                                                | Elevation<br>(ft) | Deflection<br>(ft) | Twist<br>(deg) | Sway<br>(deg) | Resultant<br>(deg) |
| 1.2D + 1.0Ev + 1.0Eh 60° Seismic                         | 199.75            | 0.0128             | 0.0000         | 0.0095        | 0.0095             |
| 1.2D + 1.0Ev + 1.0Eh 60° Seismic                         | 240.00            | 0.0205             | 0.0000         | 0.0177        | 0.0177             |
| 1.2D + 1.0Ev + 1.0Eh 60° Seismic                         | 244.15            | 0.0215             | 0.0000         | 0.0118        | 0.0118             |
| 1.2D + 1.0Ev + 1.0Eh 60° Seismic                         | 259.75            | 0.0245             | 0.0001         | 0.0081        | 0.0081             |
| 1.2D + 1.0Ev + 1.0Eh 60° Seismic                         | 275.85            | 0.0268             | 0.0000         | 0.0100        | 0.01               |
| 1.2D + 1.0Ev + 1.0Eh 60° Seismic                         | 284.15            | 0.0281             | 0.0001         | 0.0066        | 0.0066             |
| 1.2D + 1.0Ev + 1.0Eh 60° Seismic                         | 288.05            | 0.0286             | 0.0001         | 0.0070        | 0.007              |
| 1.2D + 1.0Ev + 1.0Eh 60° Seismic                         | 295.85            | 0.0293             | 0.0001         | 0.0049        | 0.0049             |
| 1.2D + 1.0Ev + 1.0Eh 60° Seismic                         | 300.00            | 0.0295             | 0.0001         | 0.0012        | 0.0012             |
| 1.2D + 1.0Ev + 1.0Eh 60° Seismic                         | 300.25            | 0.0296             | 0.0001         | 0.0013        | 0.0013             |
| 1.2D + 1.0Ev + 1.0Eh 60° Seismic                         | 304.15            | 0.0297             | 0.0001         | 0.0022        | 0.0022             |
| 1.2D + 1.0Ev + 1.0Eh Normal Seismic                      | 91.95             | 0.0029             | 0.0000         | 0.0028        | 0.0028             |
| 1.2D + 1.0Ev + 1.0Eh Normal Seismic                      | 99.75             | 0.0031             | 0.0000         | 0.0023        | 0.0023             |
| 1.2D + 1.0Ev + 1.0Eh Normal Seismic                      | 148.05            | 0.0064             | 0.0000         | 0.0045        | 0.0045             |
| 1.2D + 1.0Ev + 1.0Eh Normal Seismic                      | 155.85            | 0.0071             | 0.0000         | 0.0060        | 0.006              |
| 1.2D + 1.0Ev + 1.0Eh Normal Seismic                      | 168.05            | 0.0083             | 0.0000         | 0.0070        | 0.007              |
| 1.2D + 1.0Ev + 1.0Eh Normal Seismic                      | 184.15            | 0.0106             | 0.0000         | 0.0091        | 0.0091             |
| 1.2D + 1.0Ev + 1.0Eh Normal Seismic                      | 188.05            | 0.0112             | 0.0000         | 0.0092        | 0.0092             |
| 1.2D + 1.0Ev + 1.0Eh Normal Seismic                      | 199.75            | 0.013              | 0.0000         | 0.0101        | 0.0101             |
| 1.2D + 1.0Ev + 1.0Eh Normal Seismic                      | 240.00            | 0.0209             | 0.0000         | 0.0187        | 0.0187             |
| 1.2D + 1.0Ev + 1.0Eh Normal Seismic                      | 244.15            | 0.0219             | 0.0000         | 0.0120        | 0.012              |
| 1.2D + 1.0Ev + 1.0Eh Normal Seismic                      | 259.75            | 0.0249             | 0.0001         | 0.0083        | 0.0083             |
| 1.2D + 1.0Ev + 1.0Eh Normal Seismic                      | 275.85            | 0.0272             | 0.0000         | 0.0094        | 0.0094             |
| 1.2D + 1.0Ev + 1.0Eh Normal Seismic                      | 284.15            | 0.0285             | 0.0001         | 0.0066        | 0.0066             |
| 1.2D + 1.0Ev + 1.0Eh Normal Seismic                      | 288.05            | 0.029              | 0.0001         | 0.0070        | 0.007              |
| 1.2D + 1.0Ev + 1.0Eh Normal Seismic                      | 295.85            | 0.0297             | 0.0001         | 0.0049        | 0.0049             |
| 1.2D + 1.0Ev + 1.0Eh Normal Seismic                      | 300.00            | 0.03               | 0.0001         | 0.0014        | 0.0014             |
| 1.2D + 1.0Ev + 1.0Eh Normal Seismic                      | 300.25            | 0.03               | 0.0001         | 0.0014        | 0.0014             |
| 1.2D + 1.0Ev + 1.0Eh Normal Seismic                      | 304.15            | 0.0302             | 0.0001         | 0.0024        | 0.0024             |
| 1.2D + 1.0Di + 1.0Wi 330° 30 mph Wind with 0" Radial Ice | 91.95             | 0.0179             | -0.0125        | 0.0060        | 0.0139             |
| 1.2D + 1.0Di + 1.0Wi 330° 30 mph Wind with 0" Radial Ice | 99.75             | 0.0187             | -0.0131        | 0.0020        | 0.0132             |
| 1.2D + 1.0Di + 1.0Wi 330° 30 mph Wind with 0" Radial Ice | 148.05            | 0.0233             | -0.0178        | 0.0045        | 0.0184             |
| 1.2D + 1.0Di + 1.0Wi 330° 30 mph Wind with 0" Radial Ice | 155.85            | 0.0243             | -0.0179        | 0.0060        | 0.0189             |
| 1.2D + 1.0Di + 1.0Wi 330° 30 mph Wind with 0" Radial Ice | 168.05            | 0.0252             | -0.0180        | 0.0068        | 0.0192             |
| 1.2D + 1.0Di + 1.0Wi 330° 30 mph Wind with 0" Radial Ice | 184.15            | 0.0275             | -0.0215        | 0.0094        | 0.0235             |
| 1.2D + 1.0Di + 1.0Wi 330° 30 mph Wind with 0" Radial Ice | 188.05            | 0.0286             | -0.0222        | 0.0100        | 0.0243             |
| 1.2D + 1.0Di + 1.0Wi 330° 30 mph Wind with 0" Radial Ice | 199.75            | 0.0304             | -0.0240        | 0.0090        | 0.0256             |
| 1.2D + 1.0Di + 1.0Wi 330° 30 mph Wind with 0" Radial Ice | 240.00            | 0.0354             | -0.0395        | 0.0179        | 0.0434             |
| 1.2D + 1.0Di + 1.0Wi 330° 30 mph Wind with 0" Radial Ice | 244.15            | 0.0365             | -0.0405        | 0.0050        | 0.0408             |
| 1.2D + 1.0Di + 1.0Wi 330° 30 mph Wind with 0" Radial Ice | 259.75            | 0.0374             | -0.0432        | 0.0060        | 0.0435             |
| 1.2D + 1.0Di + 1.0Wi 330° 30 mph Wind with 0" Radial Ice | 275.85            | 0.0362             | -0.0464        | 0.0082        | 0.0471             |
| 1.2D + 1.0Di + 1.0Wi 330° 30 mph Wind with 0" Radial Ice | 284.15            | 0.0354             | -0.0483        | 0.0102        | 0.0492             |
| 1.2D + 1.0Di + 1.0Wi 330° 30 mph Wind with 0" Radial Ice | 288.05            | 0.0348             | -0.0482        | 0.0106        | 0.0493             |
| 1.2D + 1.0Di + 1.0Wi 330° 30 mph Wind with 0" Radial Ice | 295.85            | 0.033              | -0.0476        | 0.0141        | 0.0496             |
| 1.2D + 1.0Di + 1.0Wi 330° 30 mph Wind with 0" Radial Ice | 300.00            | 0.0319             | -0.0471        | 0.0224        | 0.0521             |
| 1.2D + 1.0Di + 1.0Wi 330° 30 mph Wind with 0" Radial Ice | 300.25            | 0.0318             | -0.0471        | 0.0219        | 0.0519             |
| 1.2D + 1.0Di + 1.0Wi 330° 30 mph Wind with 0" Radial Ice | 304.15            | 0.0305             | -0.0468        | 0.0182        | 0.0502             |
| 1.2D + 1.0Di + 1.0Wi 300° 30 mph Wind with 0" Radial Ice | 91.95             | 0.0186             | -0.0309        | 0.0061        | 0.0315             |
| 1.2D + 1.0Di + 1.0Wi 300° 30 mph Wind with 0" Radial Ice | 99.75             | 0.0193             | -0.0315        | 0.0025        | 0.0316             |
| 1.2D + 1.0Di + 1.0Wi 300° 30 mph Wind with 0" Radial Ice | 148.05            | 0.0246             | -0.0367        | 0.0047        | 0.037              |
| 1.2D + 1.0Di + 1.0Wi 300° 30 mph Wind with 0" Radial Ice | 155.85            | 0.0252             | -0.0367        | 0.0063        | 0.0371             |
| 1.2D + 1.0Di + 1.0Wi 300° 30 mph Wind with 0" Radial Ice | 168.05            | 0.0259             | -0.0367        | 0.0069        | 0.0374             |
| 1.2D + 1.0Di + 1.0Wi 300° 30 mph Wind with 0" Radial Ice | 184.15            | 0.029              | -0.0434        | 0.0098        | 0.0445             |
| 1.2D + 1.0Di + 1.0Wi 300° 30 mph Wind with 0" Radial Ice | 188.05            | 0.0297             | -0.0446        | 0.0103        | 0.0458             |
| 1.2D + 1.0Di + 1.0Wi 300° 30 mph Wind with 0" Radial Ice | 199.75            | 0.0317             | -0.0484        | 0.0110        | 0.0496             |
| 1.2D + 1.0Di + 1.0Wi 300° 30 mph Wind with 0" Radial Ice | 240.00            | 0.0385             | -0.0789        | 0.0208        | 0.0816             |
| 1.2D + 1.0Di + 1.0Wi 300° 30 mph Wind with 0" Radial Ice | 244.15            | 0.0393             | -0.0808        | 0.0061        | 0.0811             |
| 1.2D + 1.0Di + 1.0Wi 300° 30 mph Wind with 0" Radial Ice | 259.75            | 0.0405             | -0.0865        | 0.0060        | 0.0865             |
| 1.2D + 1.0Di + 1.0Wi 300° 30 mph Wind with 0" Radial Ice | 275.85            | 0.0398             | -0.0927        | 0.0067        | 0.0928             |

ASSET: 2543, Five Points  
CUSTOMER: T-MOBILE

CODE: ANSI/TIA-222-H  
PROJECT: 14910189\_C3\_03

| DEFLECTIONS AND ROTATIONS                                |                   |                    |                |               |                    |
|----------------------------------------------------------|-------------------|--------------------|----------------|---------------|--------------------|
| Load Case                                                | Elevation<br>(ft) | Deflection<br>(ft) | Twist<br>(deg) | Sway<br>(deg) | Resultant<br>(deg) |
| 1.2D + 1.0Di + 1.0Wi 300° 30 mph Wind with 0" Radial Ice | 284.15            | 0.0393             | -0.0964        | 0.0091        | 0.0968             |
| 1.2D + 1.0Di + 1.0Wi 300° 30 mph Wind with 0" Radial Ice | 288.05            | 0.0388             | -0.0965        | 0.0094        | 0.0969             |
| 1.2D + 1.0Di + 1.0Wi 300° 30 mph Wind with 0" Radial Ice | 295.85            | 0.0372             | -0.0958        | 0.0128        | 0.0967             |
| 1.2D + 1.0Di + 1.0Wi 300° 30 mph Wind with 0" Radial Ice | 300.00            | 0.0361             | -0.0952        | 0.0206        | 0.0974             |
| 1.2D + 1.0Di + 1.0Wi 300° 30 mph Wind with 0" Radial Ice | 300.25            | 0.036              | -0.0952        | 0.0203        | 0.0973             |
| 1.2D + 1.0Di + 1.0Wi 300° 30 mph Wind with 0" Radial Ice | 304.15            | 0.0348             | -0.0949        | 0.0167        | 0.0963             |
| 1.2D + 1.0Di + 1.0Wi 240° 30 mph Wind with 0" Radial Ice | 91.95             | 0.0192             | -0.0287        | 0.0064        | 0.0293             |
| 1.2D + 1.0Di + 1.0Wi 240° 30 mph Wind with 0" Radial Ice | 99.75             | 0.0201             | -0.0294        | 0.0029        | 0.0295             |
| 1.2D + 1.0Di + 1.0Wi 240° 30 mph Wind with 0" Radial Ice | 148.05            | 0.0253             | -0.0351        | 0.0047        | 0.0354             |
| 1.2D + 1.0Di + 1.0Wi 240° 30 mph Wind with 0" Radial Ice | 155.85            | 0.0259             | -0.0350        | 0.0051        | 0.0354             |
| 1.2D + 1.0Di + 1.0Wi 240° 30 mph Wind with 0" Radial Ice | 168.05            | 0.0265             | -0.0350        | 0.0066        | 0.0357             |
| 1.2D + 1.0Di + 1.0Wi 240° 30 mph Wind with 0" Radial Ice | 184.15            | 0.0294             | -0.0413        | 0.0084        | 0.0422             |
| 1.2D + 1.0Di + 1.0Wi 240° 30 mph Wind with 0" Radial Ice | 188.05            | 0.0301             | -0.0425        | 0.0098        | 0.0436             |
| 1.2D + 1.0Di + 1.0Wi 240° 30 mph Wind with 0" Radial Ice | 199.75            | 0.0319             | -0.0460        | 0.0096        | 0.0469             |
| 1.2D + 1.0Di + 1.0Wi 240° 30 mph Wind with 0" Radial Ice | 240.00            | 0.038              | -0.0741        | 0.0191        | 0.0765             |
| 1.2D + 1.0Di + 1.0Wi 240° 30 mph Wind with 0" Radial Ice | 244.15            | 0.0385             | -0.0758        | 0.0041        | 0.0759             |
| 1.2D + 1.0Di + 1.0Wi 240° 30 mph Wind with 0" Radial Ice | 259.75            | 0.0393             | -0.0805        | 0.0071        | 0.0807             |
| 1.2D + 1.0Di + 1.0Wi 240° 30 mph Wind with 0" Radial Ice | 275.85            | 0.0379             | -0.0859        | 0.0096        | 0.0864             |
| 1.2D + 1.0Di + 1.0Wi 240° 30 mph Wind with 0" Radial Ice | 284.15            | 0.0371             | -0.0896        | 0.0112        | 0.0903             |
| 1.2D + 1.0Di + 1.0Wi 240° 30 mph Wind with 0" Radial Ice | 288.05            | 0.0364             | -0.0896        | 0.0119        | 0.0904             |
| 1.2D + 1.0Di + 1.0Wi 240° 30 mph Wind with 0" Radial Ice | 295.85            | 0.0345             | -0.0888        | 0.0152        | 0.0901             |
| 1.2D + 1.0Di + 1.0Wi 240° 30 mph Wind with 0" Radial Ice | 300.00            | 0.0332             | -0.0882        | 0.0234        | 0.0912             |
| 1.2D + 1.0Di + 1.0Wi 240° 30 mph Wind with 0" Radial Ice | 300.25            | 0.0331             | -0.0882        | 0.0228        | 0.0911             |
| 1.2D + 1.0Di + 1.0Wi 240° 30 mph Wind with 0" Radial Ice | 304.15            | 0.0318             | -0.0878        | 0.0195        | 0.09               |
| 1.2D + 1.0Di + 1.0Wi 210° 30 mph Wind with 0" Radial Ice | 91.95             | 0.0182             | -0.0118        | 0.0063        | 0.0134             |
| 1.2D + 1.0Di + 1.0Wi 210° 30 mph Wind with 0" Radial Ice | 99.75             | 0.0191             | -0.0124        | 0.0023        | 0.0126             |
| 1.2D + 1.0Di + 1.0Wi 210° 30 mph Wind with 0" Radial Ice | 148.05            | 0.0241             | -0.0169        | 0.0046        | 0.0175             |
| 1.2D + 1.0Di + 1.0Wi 210° 30 mph Wind with 0" Radial Ice | 155.85            | 0.0246             | -0.0170        | 0.0052        | 0.0178             |
| 1.2D + 1.0Di + 1.0Wi 210° 30 mph Wind with 0" Radial Ice | 168.05            | 0.0253             | -0.0170        | 0.0062        | 0.0181             |
| 1.2D + 1.0Di + 1.0Wi 210° 30 mph Wind with 0" Radial Ice | 184.15            | 0.0279             | -0.0202        | 0.0076        | 0.0216             |
| 1.2D + 1.0Di + 1.0Wi 210° 30 mph Wind with 0" Radial Ice | 188.05            | 0.0285             | -0.0208        | 0.0095        | 0.0229             |
| 1.2D + 1.0Di + 1.0Wi 210° 30 mph Wind with 0" Radial Ice | 199.75            | 0.0303             | -0.0224        | 0.0090        | 0.0241             |
| 1.2D + 1.0Di + 1.0Wi 210° 30 mph Wind with 0" Radial Ice | 240.00            | 0.0357             | -0.0358        | 0.0179        | 0.04               |
| 1.2D + 1.0Di + 1.0Wi 210° 30 mph Wind with 0" Radial Ice | 244.15            | 0.0362             | -0.0365        | 0.0044        | 0.0368             |
| 1.2D + 1.0Di + 1.0Wi 210° 30 mph Wind with 0" Radial Ice | 259.75            | 0.0369             | -0.0384        | 0.0058        | 0.0388             |
| 1.2D + 1.0Di + 1.0Wi 210° 30 mph Wind with 0" Radial Ice | 275.85            | 0.0355             | -0.0407        | 0.0092        | 0.0417             |
| 1.2D + 1.0Di + 1.0Wi 210° 30 mph Wind with 0" Radial Ice | 284.15            | 0.0347             | -0.0426        | 0.0113        | 0.0441             |
| 1.2D + 1.0Di + 1.0Wi 210° 30 mph Wind with 0" Radial Ice | 288.05            | 0.0339             | -0.0426        | 0.0114        | 0.0441             |
| 1.2D + 1.0Di + 1.0Wi 210° 30 mph Wind with 0" Radial Ice | 295.85            | 0.0321             | -0.0420        | 0.0150        | 0.0446             |
| 1.2D + 1.0Di + 1.0Wi 210° 30 mph Wind with 0" Radial Ice | 300.00            | 0.0308             | -0.0416        | 0.0229        | 0.0475             |
| 1.2D + 1.0Di + 1.0Wi 210° 30 mph Wind with 0" Radial Ice | 300.25            | 0.0307             | -0.0416        | 0.0224        | 0.0472             |
| 1.2D + 1.0Di + 1.0Wi 210° 30 mph Wind with 0" Radial Ice | 304.15            | 0.0294             | -0.0413        | 0.0189        | 0.0454             |
| 1.2D + 1.0Di + 1.0Wi 180° 30 mph Wind with 0" Radial Ice | 91.95             | 0.018              | 0.0004         | 0.0062        | 0.0062             |
| 1.2D + 1.0Di + 1.0Wi 180° 30 mph Wind with 0" Radial Ice | 99.75             | 0.0189             | 0.0004         | 0.0022        | 0.0022             |
| 1.2D + 1.0Di + 1.0Wi 180° 30 mph Wind with 0" Radial Ice | 148.05            | 0.0238             | 0.0005         | 0.0047        | 0.0047             |
| 1.2D + 1.0Di + 1.0Wi 180° 30 mph Wind with 0" Radial Ice | 155.85            | 0.0243             | 0.0005         | 0.0055        | 0.0055             |
| 1.2D + 1.0Di + 1.0Wi 180° 30 mph Wind with 0" Radial Ice | 168.05            | 0.0252             | 0.0006         | 0.0062        | 0.0062             |
| 1.2D + 1.0Di + 1.0Wi 180° 30 mph Wind with 0" Radial Ice | 184.15            | 0.0276             | 0.0008         | 0.0075        | 0.0076             |
| 1.2D + 1.0Di + 1.0Wi 180° 30 mph Wind with 0" Radial Ice | 188.05            | 0.0283             | 0.0008         | 0.0095        | 0.0096             |
| 1.2D + 1.0Di + 1.0Wi 180° 30 mph Wind with 0" Radial Ice | 199.75            | 0.0301             | 0.0010         | 0.0084        | 0.0085             |
| 1.2D + 1.0Di + 1.0Wi 180° 30 mph Wind with 0" Radial Ice | 240.00            | 0.0355             | 0.0022         | 0.0180        | 0.0181             |
| 1.2D + 1.0Di + 1.0Wi 180° 30 mph Wind with 0" Radial Ice | 244.15            | 0.036              | 0.0024         | 0.0049        | 0.0055             |
| 1.2D + 1.0Di + 1.0Wi 180° 30 mph Wind with 0" Radial Ice | 259.75            | 0.0368             | 0.0030         | 0.0048        | 0.0055             |
| 1.2D + 1.0Di + 1.0Wi 180° 30 mph Wind with 0" Radial Ice | 275.85            | 0.0356             | 0.0034         | 0.0077        | 0.0083             |
| 1.2D + 1.0Di + 1.0Wi 180° 30 mph Wind with 0" Radial Ice | 284.15            | 0.0348             | 0.0034         | 0.0108        | 0.0113             |
| 1.2D + 1.0Di + 1.0Wi 180° 30 mph Wind with 0" Radial Ice | 288.05            | 0.0341             | 0.0034         | 0.0107        | 0.0112             |
| 1.2D + 1.0Di + 1.0Wi 180° 30 mph Wind with 0" Radial Ice | 295.85            | 0.0324             | 0.0034         | 0.0142        | 0.0146             |
| 1.2D + 1.0Di + 1.0Wi 180° 30 mph Wind with 0" Radial Ice | 300.00            | 0.0312             | 0.0033         | 0.0218        | 0.022              |
| 1.2D + 1.0Di + 1.0Wi 180° 30 mph Wind with 0" Radial Ice | 300.25            | 0.0311             | 0.0033         | 0.0215        | 0.0217             |

ASSET: 2543, Five Points  
CUSTOMER: T-MOBILE

CODE: ANSI/TIA-222-H  
PROJECT: 14910189\_C3\_03

| DEFLECTIONS AND ROTATIONS                                  |                   |                    |                |               |                    |
|------------------------------------------------------------|-------------------|--------------------|----------------|---------------|--------------------|
| Load Case                                                  | Elevation<br>(ft) | Deflection<br>(ft) | Twist<br>(deg) | Sway<br>(deg) | Resultant<br>(deg) |
| 1.2D + 1.0Di + 1.0Wi 180° 30 mph Wind with 0" Radial Ice   | 304.15            | 0.0298             | 0.0033         | 0.0180        | 0.0183             |
| 1.2D + 1.0Di + 1.0Wi 120° 30 mph Wind with 0" Radial Ice   | 91.95             | 0.0193             | 0.0291         | 0.0064        | 0.0298             |
| 1.2D + 1.0Di + 1.0Wi 120° 30 mph Wind with 0" Radial Ice   | 99.75             | 0.0201             | 0.0298         | 0.0029        | 0.03               |
| 1.2D + 1.0Di + 1.0Wi 120° 30 mph Wind with 0" Radial Ice   | 148.05            | 0.0253             | 0.0356         | 0.0047        | 0.0359             |
| 1.2D + 1.0Di + 1.0Wi 120° 30 mph Wind with 0" Radial Ice   | 155.85            | 0.0259             | 0.0356         | 0.0051        | 0.036              |
| 1.2D + 1.0Di + 1.0Wi 120° 30 mph Wind with 0" Radial Ice   | 168.05            | 0.0266             | 0.0357         | 0.0066        | 0.0363             |
| 1.2D + 1.0Di + 1.0Wi 120° 30 mph Wind with 0" Radial Ice   | 184.15            | 0.0294             | 0.0422         | 0.0084        | 0.043              |
| 1.2D + 1.0Di + 1.0Wi 120° 30 mph Wind with 0" Radial Ice   | 188.05            | 0.0301             | 0.0434         | 0.0099        | 0.0445             |
| 1.2D + 1.0Di + 1.0Wi 120° 30 mph Wind with 0" Radial Ice   | 199.75            | 0.032              | 0.0470         | 0.0097        | 0.048              |
| 1.2D + 1.0Di + 1.0Wi 120° 30 mph Wind with 0" Radial Ice   | 240.00            | 0.038              | 0.0763         | 0.0194        | 0.0788             |
| 1.2D + 1.0Di + 1.0Wi 120° 30 mph Wind with 0" Radial Ice   | 244.15            | 0.0386             | 0.0782         | 0.0041        | 0.0783             |
| 1.2D + 1.0Di + 1.0Wi 120° 30 mph Wind with 0" Radial Ice   | 259.75            | 0.0394             | 0.0835         | 0.0073        | 0.0836             |
| 1.2D + 1.0Di + 1.0Wi 120° 30 mph Wind with 0" Radial Ice   | 275.85            | 0.0381             | 0.0894         | 0.0095        | 0.0898             |
| 1.2D + 1.0Di + 1.0Wi 120° 30 mph Wind with 0" Radial Ice   | 284.15            | 0.0373             | 0.0930         | 0.0112        | 0.0937             |
| 1.2D + 1.0Di + 1.0Wi 120° 30 mph Wind with 0" Radial Ice   | 288.05            | 0.0365             | 0.0930         | 0.0118        | 0.0938             |
| 1.2D + 1.0Di + 1.0Wi 120° 30 mph Wind with 0" Radial Ice   | 295.85            | 0.0347             | 0.0922         | 0.0152        | 0.0935             |
| 1.2D + 1.0Di + 1.0Wi 120° 30 mph Wind with 0" Radial Ice   | 300.00            | 0.0334             | 0.0916         | 0.0233        | 0.0944             |
| 1.2D + 1.0Di + 1.0Wi 120° 30 mph Wind with 0" Radial Ice   | 300.25            | 0.0333             | 0.0916         | 0.0228        | 0.0943             |
| 1.2D + 1.0Di + 1.0Wi 120° 30 mph Wind with 0" Radial Ice   | 304.15            | 0.0319             | 0.0912         | 0.0194        | 0.0932             |
| 1.2D + 1.0Di + 1.0Wi 90° 30 mph Wind with 0" Radial Ice    | 91.95             | 0.0194             | 0.0410         | 0.0061        | 0.0414             |
| 1.2D + 1.0Di + 1.0Wi 90° 30 mph Wind with 0" Radial Ice    | 99.75             | 0.0201             | 0.0415         | 0.0027        | 0.0416             |
| 1.2D + 1.0Di + 1.0Wi 90° 30 mph Wind with 0" Radial Ice    | 148.05            | 0.0253             | 0.0457         | 0.0046        | 0.0459             |
| 1.2D + 1.0Di + 1.0Wi 90° 30 mph Wind with 0" Radial Ice    | 155.85            | 0.0259             | 0.0455         | 0.0059        | 0.0457             |
| 1.2D + 1.0Di + 1.0Wi 90° 30 mph Wind with 0" Radial Ice    | 168.05            | 0.0265             | 0.0454         | 0.0069        | 0.046              |
| 1.2D + 1.0Di + 1.0Wi 90° 30 mph Wind with 0" Radial Ice    | 184.15            | 0.0296             | 0.0534         | 0.0094        | 0.0542             |
| 1.2D + 1.0Di + 1.0Wi 90° 30 mph Wind with 0" Radial Ice    | 188.05            | 0.0303             | 0.0549         | 0.0104        | 0.0559             |
| 1.2D + 1.0Di + 1.0Wi 90° 30 mph Wind with 0" Radial Ice    | 199.75            | 0.0323             | 0.0595         | 0.0115        | 0.0606             |
| 1.2D + 1.0Di + 1.0Wi 90° 30 mph Wind with 0" Radial Ice    | 240.00            | 0.0394             | 0.0965         | 0.0213        | 0.0988             |
| 1.2D + 1.0Di + 1.0Wi 90° 30 mph Wind with 0" Radial Ice    | 244.15            | 0.0401             | 0.0988         | 0.0055        | 0.099              |
| 1.2D + 1.0Di + 1.0Wi 90° 30 mph Wind with 0" Radial Ice    | 259.75            | 0.0413             | 0.1057         | 0.0064        | 0.1057             |
| 1.2D + 1.0Di + 1.0Wi 90° 30 mph Wind with 0" Radial Ice    | 275.85            | 0.0404             | 0.1132         | 0.0082        | 0.1134             |
| 1.2D + 1.0Di + 1.0Wi 90° 30 mph Wind with 0" Radial Ice    | 284.15            | 0.04               | 0.1177         | 0.0099        | 0.1181             |
| 1.2D + 1.0Di + 1.0Wi 90° 30 mph Wind with 0" Radial Ice    | 288.05            | 0.0393             | 0.1179         | 0.0104        | 0.1183             |
| 1.2D + 1.0Di + 1.0Wi 90° 30 mph Wind with 0" Radial Ice    | 295.85            | 0.0377             | 0.1173         | 0.0137        | 0.1181             |
| 1.2D + 1.0Di + 1.0Wi 90° 30 mph Wind with 0" Radial Ice    | 300.00            | 0.0365             | 0.1168         | 0.0212        | 0.1187             |
| 1.2D + 1.0Di + 1.0Wi 90° 30 mph Wind with 0" Radial Ice    | 300.25            | 0.0364             | 0.1168         | 0.0209        | 0.1186             |
| 1.2D + 1.0Di + 1.0Wi 90° 30 mph Wind with 0" Radial Ice    | 304.15            | 0.0352             | 0.1164         | 0.0179        | 0.1178             |
| 1.2D + 1.0Di + 1.0Wi 60° 30 mph Wind with 0" Radial Ice    | 91.95             | 0.0186             | 0.0304         | 0.0061        | 0.031              |
| 1.2D + 1.0Di + 1.0Wi 60° 30 mph Wind with 0" Radial Ice    | 99.75             | 0.0193             | 0.0310         | 0.0024        | 0.0311             |
| 1.2D + 1.0Di + 1.0Wi 60° 30 mph Wind with 0" Radial Ice    | 148.05            | 0.0245             | 0.0361         | 0.0047        | 0.0364             |
| 1.2D + 1.0Di + 1.0Wi 60° 30 mph Wind with 0" Radial Ice    | 155.85            | 0.0252             | 0.0360         | 0.0063        | 0.0365             |
| 1.2D + 1.0Di + 1.0Wi 60° 30 mph Wind with 0" Radial Ice    | 168.05            | 0.0259             | 0.0361         | 0.0069        | 0.0367             |
| 1.2D + 1.0Di + 1.0Wi 60° 30 mph Wind with 0" Radial Ice    | 184.15            | 0.0289             | 0.0425         | 0.0098        | 0.0436             |
| 1.2D + 1.0Di + 1.0Wi 60° 30 mph Wind with 0" Radial Ice    | 188.05            | 0.0296             | 0.0437         | 0.0103        | 0.0449             |
| 1.2D + 1.0Di + 1.0Wi 60° 30 mph Wind with 0" Radial Ice    | 199.75            | 0.0316             | 0.0473         | 0.0109        | 0.0486             |
| 1.2D + 1.0Di + 1.0Wi 60° 30 mph Wind with 0" Radial Ice    | 240.00            | 0.0384             | 0.0765         | 0.0205        | 0.0792             |
| 1.2D + 1.0Di + 1.0Wi 60° 30 mph Wind with 0" Radial Ice    | 244.15            | 0.0391             | 0.0783         | 0.0061        | 0.0785             |
| 1.2D + 1.0Di + 1.0Wi 60° 30 mph Wind with 0" Radial Ice    | 259.75            | 0.0404             | 0.0834         | 0.0058        | 0.0834             |
| 1.2D + 1.0Di + 1.0Wi 60° 30 mph Wind with 0" Radial Ice    | 275.85            | 0.0397             | 0.0891         | 0.0066        | 0.0893             |
| 1.2D + 1.0Di + 1.0Wi 60° 30 mph Wind with 0" Radial Ice    | 284.15            | 0.0392             | 0.0928         | 0.0091        | 0.0932             |
| 1.2D + 1.0Di + 1.0Wi 60° 30 mph Wind with 0" Radial Ice    | 288.05            | 0.0387             | 0.0929         | 0.0093        | 0.0934             |
| 1.2D + 1.0Di + 1.0Wi 60° 30 mph Wind with 0" Radial Ice    | 295.85            | 0.0371             | 0.0923         | 0.0127        | 0.0932             |
| 1.2D + 1.0Di + 1.0Wi 60° 30 mph Wind with 0" Radial Ice    | 300.00            | 0.036              | 0.0917         | 0.0206        | 0.094              |
| 1.2D + 1.0Di + 1.0Wi 60° 30 mph Wind with 0" Radial Ice    | 300.25            | 0.0359             | 0.0917         | 0.0202        | 0.0939             |
| 1.2D + 1.0Di + 1.0Wi 60° 30 mph Wind with 0" Radial Ice    | 304.15            | 0.0348             | 0.0914         | 0.0167        | 0.0929             |
| 1.2D + 1.0Di + 1.0Wi Normal 30 mph Wind with 0" Radial Ice | 91.95             | 0.0179             | -0.0004        | 0.0061        | 0.0061             |
| 1.2D + 1.0Di + 1.0Wi Normal 30 mph Wind with 0" Radial Ice | 99.75             | 0.0187             | -0.0004        | 0.0021        | 0.0022             |
| 1.2D + 1.0Di + 1.0Wi Normal 30 mph Wind with 0" Radial Ice | 148.05            | 0.0233             | -0.0005        | 0.0044        | 0.0044             |
| 1.2D + 1.0Di + 1.0Wi Normal 30 mph Wind with 0" Radial Ice | 155.85            | 0.0243             | -0.0005        | 0.0055        | 0.0056             |

ASSET: 2543, Five Points  
CUSTOMER: T-MOBILE

CODE: ANSI/TIA-222-H  
PROJECT: 14910189\_C3\_03

| DEFLECTIONS AND ROTATIONS                                  |                   |                    |                |               |                    |
|------------------------------------------------------------|-------------------|--------------------|----------------|---------------|--------------------|
| Load Case                                                  | Elevation<br>(ft) | Deflection<br>(ft) | Twist<br>(deg) | Sway<br>(deg) | Resultant<br>(deg) |
| 1.2D + 1.0Di + 1.0Wi Normal 30 mph Wind with 0" Radial Ice | 168.05            | 0.0251             | -0.0006        | 0.0065        | 0.0065             |
| 1.2D + 1.0Di + 1.0Wi Normal 30 mph Wind with 0" Radial Ice | 184.15            | 0.0274             | -0.0008        | 0.0092        | 0.0092             |
| 1.2D + 1.0Di + 1.0Wi Normal 30 mph Wind with 0" Radial Ice | 188.05            | 0.0285             | -0.0008        | 0.0096        | 0.0096             |
| 1.2D + 1.0Di + 1.0Wi Normal 30 mph Wind with 0" Radial Ice | 199.75            | 0.0302             | -0.0010        | 0.0080        | 0.0081             |
| 1.2D + 1.0Di + 1.0Wi Normal 30 mph Wind with 0" Radial Ice | 240.00            | 0.0346             | -0.0022        | 0.0168        | 0.0169             |
| 1.2D + 1.0Di + 1.0Wi Normal 30 mph Wind with 0" Radial Ice | 244.15            | 0.0357             | -0.0024        | 0.0044        | 0.005              |
| 1.2D + 1.0Di + 1.0Wi Normal 30 mph Wind with 0" Radial Ice | 259.75            | 0.0364             | -0.0030        | 0.0064        | 0.007              |
| 1.2D + 1.0Di + 1.0Wi Normal 30 mph Wind with 0" Radial Ice | 275.85            | 0.0349             | -0.0034        | 0.0091        | 0.0097             |
| 1.2D + 1.0Di + 1.0Wi Normal 30 mph Wind with 0" Radial Ice | 284.15            | 0.034              | -0.0034        | 0.0105        | 0.0111             |
| 1.2D + 1.0Di + 1.0Wi Normal 30 mph Wind with 0" Radial Ice | 288.05            | 0.0333             | -0.0034        | 0.0111        | 0.0116             |
| 1.2D + 1.0Di + 1.0Wi Normal 30 mph Wind with 0" Radial Ice | 295.85            | 0.0315             | -0.0034        | 0.0147        | 0.0151             |
| 1.2D + 1.0Di + 1.0Wi Normal 30 mph Wind with 0" Radial Ice | 300.00            | 0.0303             | -0.0033        | 0.0232        | 0.0235             |
| 1.2D + 1.0Di + 1.0Wi Normal 30 mph Wind with 0" Radial Ice | 300.25            | 0.0302             | -0.0033        | 0.0227        | 0.0229             |
| 1.2D + 1.0Di + 1.0Wi Normal 30 mph Wind with 0" Radial Ice | 304.15            | 0.0289             | -0.0033        | 0.0190        | 0.0193             |
| 1.2D + 1.0W 330° 119 mph Wind with No Ice                  | 91.95             | 0.365              | -0.3816        | 0.1934        | 0.4278             |
| 1.2D + 1.0W 330° 119 mph Wind with No Ice                  | 99.75             | 0.3911             | -0.3811        | 0.1503        | 0.4096             |
| 1.2D + 1.0W 330° 119 mph Wind with No Ice                  | 148.05            | 0.5805             | -0.4457        | 0.2270        | 0.5002             |
| 1.2D + 1.0W 330° 119 mph Wind with No Ice                  | 155.85            | 0.6157             | -0.4414        | 0.2293        | 0.4948             |
| 1.2D + 1.0W 330° 119 mph Wind with No Ice                  | 168.05            | 0.6552             | -0.4159        | 0.2820        | 0.5025             |
| 1.2D + 1.0W 330° 119 mph Wind with No Ice                  | 184.15            | 0.7458             | -0.5719        | 0.3076        | 0.6493             |
| 1.2D + 1.0W 330° 119 mph Wind with No Ice                  | 188.05            | 0.7742             | -0.5874        | 0.3043        | 0.6608             |
| 1.2D + 1.0W 330° 119 mph Wind with No Ice                  | 199.75            | 0.8351             | -0.6069        | 0.2884        | 0.6716             |
| 1.2D + 1.0W 330° 119 mph Wind with No Ice                  | 240.00            | 1.0481             | -1.0803        | 0.5173        | 1.1978             |
| 1.2D + 1.0W 330° 119 mph Wind with No Ice                  | 244.15            | 1.0853             | -1.1024        | 0.2582        | 1.1307             |
| 1.2D + 1.0W 330° 119 mph Wind with No Ice                  | 259.75            | 1.1484             | -1.1226        | 0.1250        | 1.1295             |
| 1.2D + 1.0W 330° 119 mph Wind with No Ice                  | 275.85            | 1.1871             | -1.2138        | 0.1693        | 1.2255             |
| 1.2D + 1.0W 330° 119 mph Wind with No Ice                  | 284.15            | 1.2065             | -1.2812        | 0.0454        | 1.2817             |
| 1.2D + 1.0W 330° 119 mph Wind with No Ice                  | 288.05            | 1.2093             | -1.2796        | 0.0378        | 1.2801             |
| 1.2D + 1.0W 330° 119 mph Wind with No Ice                  | 295.85            | 1.2087             | -1.2672        | 0.0275        | 1.2675             |
| 1.2D + 1.0W 330° 119 mph Wind with No Ice                  | 300.00            | 1.204              | -1.2579        | 0.1506        | 1.2668             |
| 1.2D + 1.0W 330° 119 mph Wind with No Ice                  | 300.25            | 1.2033             | -1.2572        | 0.1442        | 1.2655             |
| 1.2D + 1.0W 330° 119 mph Wind with No Ice                  | 304.15            | 1.197              | -1.2496        | 0.0877        | 1.2527             |
| 1.2D + 1.0W 300° 119 mph Wind with No Ice                  | 91.95             | 0.3273             | -0.6893        | 0.1416        | 0.7037             |
| 1.2D + 1.0W 300° 119 mph Wind with No Ice                  | 99.75             | 0.346              | -0.6963        | 0.0971        | 0.703              |
| 1.2D + 1.0W 300° 119 mph Wind with No Ice                  | 148.05            | 0.4937             | -0.8647        | 0.1564        | 0.8787             |
| 1.2D + 1.0W 300° 119 mph Wind with No Ice                  | 155.85            | 0.5142             | -0.8583        | 0.1651        | 0.8725             |
| 1.2D + 1.0W 300° 119 mph Wind with No Ice                  | 168.05            | 0.5355             | -0.8579        | 0.2029        | 0.8775             |
| 1.2D + 1.0W 300° 119 mph Wind with No Ice                  | 184.15            | 0.6158             | -1.0632        | 0.2404        | 1.09               |
| 1.2D + 1.0W 300° 119 mph Wind with No Ice                  | 188.05            | 0.6318             | -1.0858        | 0.2306        | 1.1092             |
| 1.2D + 1.0W 300° 119 mph Wind with No Ice                  | 199.75            | 0.6779             | -1.1254        | 0.2277        | 1.1482             |
| 1.2D + 1.0W 300° 119 mph Wind with No Ice                  | 240.00            | 0.8744             | -1.9248        | 0.5068        | 1.9904             |
| 1.2D + 1.0W 300° 119 mph Wind with No Ice                  | 244.15            | 0.8948             | -1.9557        | 0.2254        | 1.9677             |
| 1.2D + 1.0W 300° 119 mph Wind with No Ice                  | 259.75            | 0.9529             | -2.0032        | 0.1228        | 2.007              |
| 1.2D + 1.0W 300° 119 mph Wind with No Ice                  | 275.85            | 0.9905             | -2.1280        | 0.1653        | 2.1335             |
| 1.2D + 1.0W 300° 119 mph Wind with No Ice                  | 284.15            | 1.018              | -2.2660        | 0.0760        | 2.2668             |
| 1.2D + 1.0W 300° 119 mph Wind with No Ice                  | 288.05            | 1.0216             | -2.2705        | 0.0489        | 2.2708             |
| 1.2D + 1.0W 300° 119 mph Wind with No Ice                  | 295.85            | 1.0229             | -2.2546        | 0.0093        | 2.2546             |
| 1.2D + 1.0W 300° 119 mph Wind with No Ice                  | 300.00            | 1.0194             | -2.2411        | 0.1252        | 2.2446             |
| 1.2D + 1.0W 300° 119 mph Wind with No Ice                  | 300.25            | 1.0188             | -2.2401        | 0.1194        | 2.2433             |
| 1.2D + 1.0W 300° 119 mph Wind with No Ice                  | 304.15            | 1.0139             | -2.2290        | 0.0683        | 2.2301             |
| 1.2D + 1.0W 240° 119 mph Wind with No Ice                  | 91.95             | 0.4374             | -0.6313        | 0.2229        | 0.6695             |
| 1.2D + 1.0W 240° 119 mph Wind with No Ice                  | 99.75             | 0.4674             | -0.6410        | 0.1767        | 0.6649             |
| 1.2D + 1.0W 240° 119 mph Wind with No Ice                  | 148.05            | 0.6841             | -0.7298        | 0.2532        | 0.7725             |
| 1.2D + 1.0W 240° 119 mph Wind with No Ice                  | 155.85            | 0.7184             | -0.7244        | 0.2591        | 0.7647             |
| 1.2D + 1.0W 240° 119 mph Wind with No Ice                  | 168.05            | 0.7618             | -0.7219        | 0.3176        | 0.7887             |
| 1.2D + 1.0W 240° 119 mph Wind with No Ice                  | 184.15            | 0.8761             | -0.9532        | 0.3559        | 1.0174             |
| 1.2D + 1.0W 240° 119 mph Wind with No Ice                  | 188.05            | 0.8997             | -0.9700        | 0.3454        | 1.0292             |
| 1.2D + 1.0W 240° 119 mph Wind with No Ice                  | 199.75            | 0.9696             | -1.0082        | 0.3468        | 1.0662             |
| 1.2D + 1.0W 240° 119 mph Wind with No Ice                  | 240.00            | 1.2334             | -1.7382        | 0.5131        | 1.8123             |

ASSET: 2543, Five Points  
CUSTOMER: T-MOBILE

CODE: ANSI/TIA-222-H  
PROJECT: 14910189\_C3\_03

| DEFLECTIONS AND ROTATIONS                 |                   |                    |                |               |                    |
|-------------------------------------------|-------------------|--------------------|----------------|---------------|--------------------|
| Load Case                                 | Elevation<br>(ft) | Deflection<br>(ft) | Twist<br>(deg) | Sway<br>(deg) | Resultant<br>(deg) |
| 1.2D + 1.0W 240° 119 mph Wind with No Ice | 244.15            | 1.2583             | -1.7627        | 0.2865        | 1.7855             |
| 1.2D + 1.0W 240° 119 mph Wind with No Ice | 259.75            | 1.33               | -1.8060        | 0.1595        | 1.8131             |
| 1.2D + 1.0W 240° 119 mph Wind with No Ice | 275.85            | 1.3747             | -1.9229        | 0.1870        | 1.932              |
| 1.2D + 1.0W 240° 119 mph Wind with No Ice | 284.15            | 1.3975             | -2.0173        | 0.0509        | 2.0179             |
| 1.2D + 1.0W 240° 119 mph Wind with No Ice | 288.05            | 1.4005             | -2.0153        | 0.0417        | 2.0155             |
| 1.2D + 1.0W 240° 119 mph Wind with No Ice | 295.85            | 1.4001             | -1.9983        | 0.0235        | 1.9984             |
| 1.2D + 1.0W 240° 119 mph Wind with No Ice | 300.00            | 1.3952             | -1.9854        | 0.1559        | 1.9915             |
| 1.2D + 1.0W 240° 119 mph Wind with No Ice | 300.25            | 1.3945             | -1.9845        | 0.1497        | 1.9901             |
| 1.2D + 1.0W 240° 119 mph Wind with No Ice | 304.15            | 1.3879             | -1.9741        | 0.0913        | 1.9762             |
| 1.2D + 1.0W 210° 119 mph Wind with No Ice | 91.95             | 0.3657             | -0.3809        | 0.1939        | 0.4274             |
| 1.2D + 1.0W 210° 119 mph Wind with No Ice | 99.75             | 0.3919             | -0.3804        | 0.1508        | 0.4092             |
| 1.2D + 1.0W 210° 119 mph Wind with No Ice | 148.05            | 0.586              | -0.4455        | 0.2255        | 0.4993             |
| 1.2D + 1.0W 210° 119 mph Wind with No Ice | 155.85            | 0.6165             | -0.4416        | 0.2283        | 0.4937             |
| 1.2D + 1.0W 210° 119 mph Wind with No Ice | 168.05            | 0.6555             | -0.4129        | 0.2808        | 0.4994             |
| 1.2D + 1.0W 210° 119 mph Wind with No Ice | 184.15            | 0.7538             | -0.5744        | 0.3088        | 0.6522             |
| 1.2D + 1.0W 210° 119 mph Wind with No Ice | 188.05            | 0.7743             | -0.5837        | 0.3041        | 0.6571             |
| 1.2D + 1.0W 210° 119 mph Wind with No Ice | 199.75            | 0.8349             | -0.6011        | 0.2868        | 0.6657             |
| 1.2D + 1.0W 210° 119 mph Wind with No Ice | 240.00            | 1.062              | -1.0652        | 0.4531        | 1.1576             |
| 1.2D + 1.0W 210° 119 mph Wind with No Ice | 244.15            | 1.0837             | -1.0776        | 0.2574        | 1.1061             |
| 1.2D + 1.0W 210° 119 mph Wind with No Ice | 259.75            | 1.1462             | -1.0869        | 0.1204        | 1.0935             |
| 1.2D + 1.0W 210° 119 mph Wind with No Ice | 275.85            | 1.1839             | -1.1693        | 0.1569        | 1.1797             |
| 1.2D + 1.0W 210° 119 mph Wind with No Ice | 284.15            | 1.207              | -1.2850        | 0.0562        | 1.2862             |
| 1.2D + 1.0W 210° 119 mph Wind with No Ice | 288.05            | 1.2092             | -1.2872        | 0.0346        | 1.2876             |
| 1.2D + 1.0W 210° 119 mph Wind with No Ice | 295.85            | 1.2083             | -1.2754        | 0.0298        | 1.2758             |
| 1.2D + 1.0W 210° 119 mph Wind with No Ice | 300.00            | 1.2034             | -1.2660        | 0.1527        | 1.2752             |
| 1.2D + 1.0W 210° 119 mph Wind with No Ice | 300.25            | 1.2027             | -1.2654        | 0.1464        | 1.2738             |
| 1.2D + 1.0W 210° 119 mph Wind with No Ice | 304.15            | 1.1962             | -1.2577        | 0.0900        | 1.2609             |
| 1.2D + 1.0W 180° 119 mph Wind with No Ice | 91.95             | 0.3044             | 0.0136         | 0.1403        | 0.1409             |
| 1.2D + 1.0W 180° 119 mph Wind with No Ice | 99.75             | 0.3228             | 0.0135         | 0.0932        | 0.0941             |
| 1.2D + 1.0W 180° 119 mph Wind with No Ice | 148.05            | 0.4601             | 0.0146         | 0.1556        | 0.1563             |
| 1.2D + 1.0W 180° 119 mph Wind with No Ice | 155.85            | 0.4815             | 0.0150         | 0.1648        | 0.1654             |
| 1.2D + 1.0W 180° 119 mph Wind with No Ice | 168.05            | 0.5076             | 0.0182         | 0.1945        | 0.195              |
| 1.2D + 1.0W 180° 119 mph Wind with No Ice | 184.15            | 0.5717             | 0.0187         | 0.2119        | 0.2127             |
| 1.2D + 1.0W 180° 119 mph Wind with No Ice | 188.05            | 0.588              | 0.0198         | 0.2277        | 0.2285             |
| 1.2D + 1.0W 180° 119 mph Wind with No Ice | 199.75            | 0.6329             | 0.0223         | 0.2034        | 0.2046             |
| 1.2D + 1.0W 180° 119 mph Wind with No Ice | 240.00            | 0.8121             | 0.0473         | 0.4047        | 0.4074             |
| 1.2D + 1.0W 180° 119 mph Wind with No Ice | 244.15            | 0.8332             | 0.0504         | 0.2165        | 0.2221             |
| 1.2D + 1.0W 180° 119 mph Wind with No Ice | 259.75            | 0.8891             | 0.0592         | 0.1055        | 0.121              |
| 1.2D + 1.0W 180° 119 mph Wind with No Ice | 275.85            | 0.921              | 0.0657         | 0.0973        | 0.117              |
| 1.2D + 1.0W 180° 119 mph Wind with No Ice | 284.15            | 0.9376             | 0.0663         | 0.0482        | 0.0819             |
| 1.2D + 1.0W 180° 119 mph Wind with No Ice | 288.05            | 0.9413             | 0.0663         | 0.0464        | 0.0802             |
| 1.2D + 1.0W 180° 119 mph Wind with No Ice | 295.85            | 0.9432             | 0.0664         | 0.0069        | 0.0667             |
| 1.2D + 1.0W 180° 119 mph Wind with No Ice | 300.00            | 0.9401             | 0.0652         | 0.1193        | 0.1352             |
| 1.2D + 1.0W 180° 119 mph Wind with No Ice | 300.25            | 0.9396             | 0.0652         | 0.1134        | 0.1301             |
| 1.2D + 1.0W 180° 119 mph Wind with No Ice | 304.15            | 0.935              | 0.0648         | 0.0662        | 0.0927             |
| 1.2D + 1.0W 120° 119 mph Wind with No Ice | 91.95             | 0.4377             | 0.6406         | 0.2229        | 0.6783             |
| 1.2D + 1.0W 120° 119 mph Wind with No Ice | 99.75             | 0.4678             | 0.6504         | 0.1767        | 0.674              |
| 1.2D + 1.0W 120° 119 mph Wind with No Ice | 148.05            | 0.6844             | 0.7405         | 0.2532        | 0.7826             |
| 1.2D + 1.0W 120° 119 mph Wind with No Ice | 155.85            | 0.7188             | 0.7353         | 0.2590        | 0.7749             |
| 1.2D + 1.0W 120° 119 mph Wind with No Ice | 168.05            | 0.7621             | 0.7337         | 0.3180        | 0.7996             |
| 1.2D + 1.0W 120° 119 mph Wind with No Ice | 184.15            | 0.8767             | 0.9683         | 0.3562        | 1.0318             |
| 1.2D + 1.0W 120° 119 mph Wind with No Ice | 188.05            | 0.9002             | 0.9858         | 0.3454        | 1.0442             |
| 1.2D + 1.0W 120° 119 mph Wind with No Ice | 199.75            | 0.9702             | 1.0260         | 0.3482        | 1.0835             |
| 1.2D + 1.0W 120° 119 mph Wind with No Ice | 240.00            | 1.2349             | 1.7795         | 0.5163        | 1.8529             |
| 1.2D + 1.0W 120° 119 mph Wind with No Ice | 244.15            | 1.2598             | 1.8061         | 0.2861        | 1.8284             |
| 1.2D + 1.0W 120° 119 mph Wind with No Ice | 259.75            | 1.3318             | 1.8565         | 0.1626        | 1.8636             |
| 1.2D + 1.0W 120° 119 mph Wind with No Ice | 275.85            | 1.3768             | 1.9810         | 0.1881        | 1.9899             |
| 1.2D + 1.0W 120° 119 mph Wind with No Ice | 284.15            | 1.3996             | 2.0751         | 0.0511        | 2.0758             |
| 1.2D + 1.0W 120° 119 mph Wind with No Ice | 288.05            | 1.4026             | 2.0729         | 0.0419        | 2.0731             |

ASSET: 2543, Five Points  
CUSTOMER: T-MOBILE

CODE: ANSI/TIA-222-H  
PROJECT: 14910189\_C3\_03

| DEFLECTIONS AND ROTATIONS                   |                   |                    |                |               |                    |
|---------------------------------------------|-------------------|--------------------|----------------|---------------|--------------------|
| Load Case                                   | Elevation<br>(ft) | Deflection<br>(ft) | Twist<br>(deg) | Sway<br>(deg) | Resultant<br>(deg) |
| 1.2D + 1.0W 120° 119 mph Wind with No Ice   | 295.85            | 1.4023             | 2.0554         | 0.0235        | 2.0555             |
| 1.2D + 1.0W 120° 119 mph Wind with No Ice   | 300.00            | 1.3973             | 2.0421         | 0.1563        | 2.0481             |
| 1.2D + 1.0W 120° 119 mph Wind with No Ice   | 300.25            | 1.3966             | 2.0412         | 0.1500        | 2.0467             |
| 1.2D + 1.0W 120° 119 mph Wind with No Ice   | 304.15            | 1.3901             | 2.0305         | 0.0912        | 2.0326             |
| 1.2D + 1.0W 90° 119 mph Wind with No Ice    | 91.95             | 0.3879             | 0.7963         | 0.1980        | 0.8206             |
| 1.2D + 1.0W 90° 119 mph Wind with No Ice    | 99.75             | 0.4143             | 0.8137         | 0.1615        | 0.827              |
| 1.2D + 1.0W 90° 119 mph Wind with No Ice    | 148.05            | 0.6122             | 0.9309         | 0.2307        | 0.9591             |
| 1.2D + 1.0W 90° 119 mph Wind with No Ice    | 155.85            | 0.6431             | 0.9244         | 0.2390        | 0.9518             |
| 1.2D + 1.0W 90° 119 mph Wind with No Ice    | 168.05            | 0.6797             | 0.9339         | 0.3084        | 0.9797             |
| 1.2D + 1.0W 90° 119 mph Wind with No Ice    | 184.15            | 0.7916             | 1.2701         | 0.3315        | 1.3126             |
| 1.2D + 1.0W 90° 119 mph Wind with No Ice    | 188.05            | 0.8128             | 1.2966         | 0.3064        | 1.3321             |
| 1.2D + 1.0W 90° 119 mph Wind with No Ice    | 199.75            | 0.8752             | 1.3434         | 0.3157        | 1.38               |
| 1.2D + 1.0W 90° 119 mph Wind with No Ice    | 240.00            | 1.1258             | 2.2800         | 0.5369        | 2.3423             |
| 1.2D + 1.0W 90° 119 mph Wind with No Ice    | 244.15            | 1.1486             | 2.3122         | 0.2521        | 2.3249             |
| 1.2D + 1.0W 90° 119 mph Wind with No Ice    | 259.75            | 1.2128             | 2.3676         | 0.1411        | 2.3718             |
| 1.2D + 1.0W 90° 119 mph Wind with No Ice    | 275.85            | 1.2486             | 2.4373         | 0.1078        | 2.4397             |
| 1.2D + 1.0W 90° 119 mph Wind with No Ice    | 284.15            | 1.2667             | 2.4970         | 0.0456        | 2.4975             |
| 1.2D + 1.0W 90° 119 mph Wind with No Ice    | 288.05            | 1.2688             | 2.4947         | 0.0386        | 2.4949             |
| 1.2D + 1.0W 90° 119 mph Wind with No Ice    | 295.85            | 1.2673             | 2.4760         | 0.0345        | 2.4763             |
| 1.2D + 1.0W 90° 119 mph Wind with No Ice    | 300.00            | 1.2619             | 2.4618         | 0.1559        | 2.4668             |
| 1.2D + 1.0W 90° 119 mph Wind with No Ice    | 300.25            | 1.2612             | 2.4609         | 0.1502        | 2.4655             |
| 1.2D + 1.0W 90° 119 mph Wind with No Ice    | 304.15            | 1.2544             | 2.4495         | 0.0960        | 2.4513             |
| 1.2D + 1.0W 60° 119 mph Wind with No Ice    | 91.95             | 0.3271             | 0.6815         | 0.1416        | 0.6961             |
| 1.2D + 1.0W 60° 119 mph Wind with No Ice    | 99.75             | 0.3458             | 0.6884         | 0.0970        | 0.6952             |
| 1.2D + 1.0W 60° 119 mph Wind with No Ice    | 148.05            | 0.4933             | 0.8560         | 0.1558        | 0.8701             |
| 1.2D + 1.0W 60° 119 mph Wind with No Ice    | 155.85            | 0.5136             | 0.8496         | 0.1644        | 0.8638             |
| 1.2D + 1.0W 60° 119 mph Wind with No Ice    | 168.05            | 0.5348             | 0.8485         | 0.2018        | 0.8682             |
| 1.2D + 1.0W 60° 119 mph Wind with No Ice    | 184.15            | 0.6147             | 1.0515         | 0.2391        | 1.0784             |
| 1.2D + 1.0W 60° 119 mph Wind with No Ice    | 188.05            | 0.6306             | 1.0736         | 0.2292        | 1.097              |
| 1.2D + 1.0W 60° 119 mph Wind with No Ice    | 199.75            | 0.6764             | 1.1119         | 0.2254        | 1.1345             |
| 1.2D + 1.0W 60° 119 mph Wind with No Ice    | 240.00            | 0.8718             | 1.8421         | 0.5031        | 1.9095             |
| 1.2D + 1.0W 60° 119 mph Wind with No Ice    | 244.15            | 0.8921             | 1.8710         | 0.2254        | 1.8836             |
| 1.2D + 1.0W 60° 119 mph Wind with No Ice    | 259.75            | 0.9498             | 1.9121         | 0.1200        | 1.9158             |
| 1.2D + 1.0W 60° 119 mph Wind with No Ice    | 275.85            | 0.9871             | 2.0294         | 0.1639        | 2.0351             |
| 1.2D + 1.0W 60° 119 mph Wind with No Ice    | 284.15            | 1.0146             | 2.1681         | 0.0761        | 2.169              |
| 1.2D + 1.0W 60° 119 mph Wind with No Ice    | 288.05            | 1.0182             | 2.1731         | 0.0486        | 2.1734             |
| 1.2D + 1.0W 60° 119 mph Wind with No Ice    | 295.85            | 1.0196             | 2.1581         | 0.0095        | 2.1581             |
| 1.2D + 1.0W 60° 119 mph Wind with No Ice    | 300.00            | 1.016              | 2.1451         | 0.1245        | 2.1487             |
| 1.2D + 1.0W 60° 119 mph Wind with No Ice    | 300.25            | 1.0155             | 2.1442         | 0.1188        | 2.1475             |
| 1.2D + 1.0W 60° 119 mph Wind with No Ice    | 304.15            | 1.0106             | 2.1336         | 0.0683        | 2.1347             |
| 1.2D + 1.0W Normal 119 mph Wind with No Ice | 91.95             | 0.4158             | -0.0101        | 0.2209        | 0.2211             |
| 1.2D + 1.0W Normal 119 mph Wind with No Ice | 99.75             | 0.4455             | -0.0125        | 0.1721        | 0.1725             |
| 1.2D + 1.0W Normal 119 mph Wind with No Ice | 148.05            | 0.6582             | -0.0109        | 0.2529        | 0.2532             |
| 1.2D + 1.0W Normal 119 mph Wind with No Ice | 155.85            | 0.6924             | -0.0138        | 0.2435        | 0.2439             |
| 1.2D + 1.0W Normal 119 mph Wind with No Ice | 168.05            | 0.7374             | -0.0183        | 0.3030        | 0.3036             |
| 1.2D + 1.0W Normal 119 mph Wind with No Ice | 184.15            | 0.8419             | -0.0161        | 0.3212        | 0.3216             |
| 1.2D + 1.0W Normal 119 mph Wind with No Ice | 188.05            | 0.8655             | -0.0168        | 0.3463        | 0.3467             |
| 1.2D + 1.0W Normal 119 mph Wind with No Ice | 199.75            | 0.9339             | -0.0190        | 0.3191        | 0.3197             |
| 1.2D + 1.0W Normal 119 mph Wind with No Ice | 240.00            | 1.1783             | -0.0423        | 0.5573        | 0.5589             |
| 1.2D + 1.0W Normal 119 mph Wind with No Ice | 244.15            | 1.2043             | -0.0469        | 0.2836        | 0.2875             |
| 1.2D + 1.0W Normal 119 mph Wind with No Ice | 259.75            | 1.2743             | -0.0541        | 0.1425        | 0.1525             |
| 1.2D + 1.0W Normal 119 mph Wind with No Ice | 275.85            | 1.3127             | -0.0605        | 0.1113        | 0.1267             |
| 1.2D + 1.0W Normal 119 mph Wind with No Ice | 284.15            | 1.3295             | -0.0610        | 0.0460        | 0.0764             |
| 1.2D + 1.0W Normal 119 mph Wind with No Ice | 288.05            | 1.3327             | -0.0610        | 0.0359        | 0.0705             |
| 1.2D + 1.0W Normal 119 mph Wind with No Ice | 295.85            | 1.3327             | -0.0609        | 0.0231        | 0.0652             |
| 1.2D + 1.0W Normal 119 mph Wind with No Ice | 300.00            | 1.328              | -0.0597        | 0.1548        | 0.1653             |
| 1.2D + 1.0W Normal 119 mph Wind with No Ice | 300.25            | 1.3274             | -0.0597        | 0.1474        | 0.1583             |
| 1.2D + 1.0W Normal 119 mph Wind with No Ice | 304.15            | 1.321              | -0.0592        | 0.0908        | 0.1084             |

| DETAILED REACTIONS          |                |                   |                  |      |                          |              |              |
|-----------------------------|----------------|-------------------|------------------|------|--------------------------|--------------|--------------|
| Load Case                   | Radius<br>(ft) | Elevation<br>(ft) | Azimuth<br>(deg) | Node | *(-) Uplift and (+) Down |              |              |
|                             |                |                   |                  |      | FX*<br>(kip)             | FY*<br>(kip) | FZ*<br>(kip) |
| 1.2D + 1.0W Normal          | 0.00           | 0.00              |                  | 1    | 0.00                     | 222.43       | -1.47        |
|                             | 198.00         | 0.00              | 0                | A1   | 0.00                     | -5.68        | 4.60         |
|                             | 198.00         | 0.00              | 240              | A1a  | -69.46                   | -77.51       | -43.25       |
|                             | 198.00         | 0.00              | 120              | A1b  | 69.46                    | -77.51       | -43.25       |
| 1.2D + 1.0W 60°             | 0.00           | 0.00              |                  | 1    | -1.60                    | 204.65       | -0.95        |
|                             | 198.00         | 0.00              | 0                | A1   | -2.49                    | -24.63       | 24.92        |
|                             | 198.00         | 0.00              | 240              | A1a  | -86.92                   | -94.85       | -50.26       |
|                             | 198.00         | 0.00              | 120              | A1b  | 20.28                    | -24.64       | -14.55       |
| 1.2D + 1.0W 90°             | 0.00           | 0.00              |                  | 1    | -1.56                    | 214.99       | -0.25        |
|                             | 198.00         | 0.00              | 0                | A1   | -3.22                    | -51.28       | 53.46        |
|                             | 198.00         | 0.00              | 240              | A1a  | -84.91                   | -92.05       | -47.46       |
|                             | 198.00         | 0.00              | 120              | A1b  | 7.62                     | -10.53       | -5.75        |
| 1.2D + 1.0W 120°            | 0.00           | 0.00              |                  | 1    | -1.28                    | 222.44       | 0.73         |
|                             | 198.00         | 0.00              | 0                | A1   | -2.77                    | -77.50       | 81.83        |
|                             | 198.00         | 0.00              | 240              | A1a  | -72.15                   | -77.52       | -38.57       |
|                             | 198.00         | 0.00              | 120              | A1b  | 4.00                     | -5.68        | -2.30        |
| 1.2D + 1.0W 180°            | 0.00           | 0.00              |                  | 1    | 0.00                     | 204.48       | 1.86         |
|                             | 198.00         | 0.00              | 0                | A1   | 0.00                     | -94.76       | 100.34       |
|                             | 198.00         | 0.00              | 240              | A1a  | -22.74                   | -24.59       | -10.27       |
|                             | 198.00         | 0.00              | 120              | A1b  | 22.74                    | -24.59       | -10.27       |
| 1.2D + 1.0W 210°            | 0.00           | 0.00              |                  | 1    | 0.58                     | 214.96       | 1.48         |
|                             | 198.00         | 0.00              | 0                | A1   | 1.45                     | -92.02       | 97.26        |
|                             | 198.00         | 0.00              | 240              | A1a  | -8.79                    | -10.51       | -3.71        |
|                             | 198.00         | 0.00              | 120              | A1b  | 47.79                    | -51.29       | -23.94       |
| 1.2D + 1.0W 240°            | 0.00           | 0.00              |                  | 1    | 1.28                     | 222.44       | 0.73         |
|                             | 198.00         | 0.00              | 0                | A1   | 2.77                     | -77.50       | 81.83        |
|                             | 198.00         | 0.00              | 240              | A1a  | -4.00                    | -5.68        | -2.30        |
|                             | 198.00         | 0.00              | 120              | A1b  | 72.15                    | -77.51       | -38.57       |
| 1.2D + 1.0W 300°            | 0.00           | 0.00              |                  | 1    | 1.60                     | 204.65       | -0.95        |
|                             | 198.00         | 0.00              | 0                | A1   | 2.49                     | -24.63       | 24.92        |
|                             | 198.00         | 0.00              | 240              | A1a  | -20.28                   | -24.64       | -14.55       |
|                             | 198.00         | 0.00              | 120              | A1b  | 86.92                    | -94.85       | -50.26       |
| 1.2D + 1.0W 330°            | 0.00           | 0.00              |                  | 1    | 0.99                     | 214.98       | -1.25        |
|                             | 198.00         | 0.00              | 0                | A1   | 1.18                     | -10.51       | 9.47         |
|                             | 198.00         | 0.00              | 240              | A1a  | -44.63                   | -51.29       | -29.41       |
|                             | 198.00         | 0.00              | 120              | A1b  | 83.50                    | -92.04       | -49.89       |
| 1.2D + 1.0Di + 1.0Wi Normal | 0.00           | 0.00              |                  | 1    | 0.00                     | 156.81       | -0.17        |
|                             | 198.00         | 0.00              | 0                | A1   | 0.00                     | -28.71       | 32.91        |
|                             | 198.00         | 0.00              | 240              | A1a  | -32.91                   | -33.47       | -19.18       |
|                             | 198.00         | 0.00              | 120              | A1b  | 32.91                    | -33.47       | -19.18       |
| 1.2D + 1.0Di + 1.0Wi 60°    | 0.00           | 0.00              |                  | 1    | -0.14                    | 156.53       | -0.08        |
|                             | 198.00         | 0.00              | 0                | A1   | -0.16                    | -30.24       | 34.56        |
|                             | 198.00         | 0.00              | 240              | A1a  | -34.38                   | -34.96       | -19.85       |
|                             | 198.00         | 0.00              | 120              | A1b  | 29.85                    | -30.25       | -17.41       |
| 1.2D + 1.0Di + 1.0Wi 90°    | 0.00           | 0.00              |                  | 1    | -0.17                    | 156.67       | 0.00         |
|                             | 198.00         | 0.00              | 0                | A1   | -0.20                    | -31.84       | 36.32        |
|                             | 198.00         | 0.00              | 240              | A1a  | -34.08                   | -34.60       | -19.59       |
|                             | 198.00         | 0.00              | 120              | A1b  | 28.83                    | -29.11       | -16.73       |
| 1.2D + 1.0Di + 1.0Wi 120°   | 0.00           | 0.00              |                  | 1    | -0.15                    | 156.81       | 0.08         |
|                             | 198.00         | 0.00              | 0                | A1   | -0.16                    | -33.47       | 38.11        |
|                             | 198.00         | 0.00              | 240              | A1a  | -33.08                   | -33.48       | -18.92       |
|                             | 198.00         | 0.00              | 120              | A1b  | 28.48                    | -28.69       | -16.44       |
| 1.2D + 1.0Di + 1.0Wi 180°   | 0.00           | 0.00              |                  | 1    | 0.00                     | 156.53       | 0.16         |
|                             | 198.00         | 0.00              | 0                | A1   | 0.00                     | -34.90       | 39.66        |
|                             | 198.00         | 0.00              | 240              | A1a  | -30.02                   | -30.27       | -17.15       |
|                             | 198.00         | 0.00              | 120              | A1b  | 30.02                    | -30.27       | -17.15       |
| 1.2D + 1.0Di + 1.0Wi 210°   | 0.00           | 0.00              |                  | 1    | 0.08                     | 156.67       | 0.14         |
|                             | 198.00         | 0.00              | 0                | A1   | 0.08                     | -34.54       | 39.27        |
|                             | 198.00         | 0.00              | 240              | A1a  | -28.94                   | -29.15       | -16.62       |

ASSET: 2543, Five Points  
CUSTOMER: T-MOBILE

CODE: ANSI/TIA-222-H  
PROJECT: 14910189\_C3\_03

DETAILED REACTIONS

| Load Case                   | Radius<br>(ft) | Elevation<br>(ft) | Azimuth<br>(deg) | Node | *(-) Uplift and (+) Down |              |              |
|-----------------------------|----------------|-------------------|------------------|------|--------------------------|--------------|--------------|
|                             |                |                   |                  |      | FX*<br>(kip)             | FY*<br>(kip) | FZ*<br>(kip) |
| 1.2D + 1.0Di + 1.0Wi 240°   | 198.00         | 0.00              | 120              | A1b  | 31.55                    | -31.86       | -17.99       |
|                             | 0.00           | 0.00              |                  | 1    | 0.15                     | 156.81       | 0.08         |
|                             | 198.00         | 0.00              | 0                | A1   | 0.16                     | -33.47       | 38.11        |
|                             | 198.00         | 0.00              | 240              | A1a  | -28.48                   | -28.69       | -16.44       |
|                             | 198.00         | 0.00              | 120              | A1b  | 33.08                    | -33.48       | -18.92       |
| 1.2D + 1.0Di + 1.0Wi 300°   | 0.00           | 0.00              |                  | 1    | 0.14                     | 156.53       | -0.08        |
|                             | 198.00         | 0.00              | 0                | A1   | 0.16                     | -30.24       | 34.56        |
|                             | 198.00         | 0.00              | 240              | A1a  | -29.85                   | -30.25       | -17.41       |
|                             | 198.00         | 0.00              | 120              | A1b  | 34.38                    | -34.96       | -19.85       |
|                             | 0.00           | 0.00              |                  | 1    | 0.08                     | 156.67       | -0.15        |
| 1.2D + 1.0Di + 1.0Wi 330°   | 198.00         | 0.00              | 0                | A1   | 0.08                     | -29.14       | 33.37        |
|                             | 198.00         | 0.00              | 240              | A1a  | -31.36                   | -31.86       | -18.33       |
|                             | 198.00         | 0.00              | 120              | A1b  | 33.97                    | -34.55       | -19.70       |
|                             | 0.00           | 0.00              |                  | 1    | 0.00                     | 147.02       | 0.01         |
|                             | 198.00         | 0.00              | 0                | A1   | 0.00                     | -27.06       | 30.70        |
| 1.2D + 1.0Ev + 1.0Eh Normal | 198.00         | 0.00              | 240              | A1a  | -28.04                   | -29.01       | -16.19       |
|                             | 198.00         | 0.00              | 120              | A1b  | 28.04                    | -29.01       | -16.19       |
|                             | 0.00           | 0.00              |                  | 1    | 0.00                     | 147.01       | 0.00         |
|                             | 198.00         | 0.00              | 0                | A1   | 0.00                     | -27.71       | 31.26        |
|                             | 198.00         | 0.00              | 240              | A1a  | -28.53                   | -29.66       | -16.47       |
| 1.2D + 1.0Ev + 1.0Eh 60°    | 198.00         | 0.00              | 120              | A1b  | 27.07                    | -27.71       | -15.63       |
|                             | 0.00           | 0.00              |                  | 1    | 0.01                     | 147.02       | 0.00         |
|                             | 198.00         | 0.00              | 0                | A1   | 0.00                     | -28.36       | 31.82        |
|                             | 198.00         | 0.00              | 240              | A1a  | -28.40                   | -29.49       | -16.40       |
|                             | 198.00         | 0.00              | 120              | A1b  | 26.71                    | -27.24       | -15.42       |
| 1.2D + 1.0Ev + 1.0Eh 90°    | 0.00           | 0.00              |                  | 1    | 0.01                     | 147.02       | 0.00         |
|                             | 198.00         | 0.00              | 0                | A1   | 0.00                     | -29.01       | 32.38        |
|                             | 198.00         | 0.00              | 240              | A1a  | -28.05                   | -29.01       | -16.19       |
|                             | 198.00         | 0.00              | 120              | A1b  | 26.58                    | -27.06       | -15.35       |
|                             | 0.00           | 0.00              |                  | 1    | 0.00                     | 147.01       | -0.01        |
| 1.2D + 1.0Ev + 1.0Eh 120°   | 198.00         | 0.00              | 0                | A1   | 0.00                     | -29.66       | 32.95        |
|                             | 198.00         | 0.00              | 240              | A1a  | -27.07                   | -27.71       | -15.63       |
|                             | 198.00         | 0.00              | 120              | A1b  | 27.07                    | -27.71       | -15.63       |
|                             | 0.00           | 0.00              |                  | 1    | 0.00                     | 147.02       | 0.00         |
|                             | 198.00         | 0.00              | 0                | A1   | 0.00                     | -29.49       | 32.80        |
| 1.2D + 1.0Ev + 1.0Eh 180°   | 198.00         | 0.00              | 240              | A1a  | -26.71                   | -27.24       | -15.42       |
|                             | 198.00         | 0.00              | 120              | A1b  | 27.56                    | -28.36       | -15.91       |
|                             | 0.00           | 0.00              |                  | 1    | -0.01                    | 147.02       | 0.00         |
|                             | 198.00         | 0.00              | 0                | A1   | 0.00                     | -29.01       | 32.38        |
|                             | 198.00         | 0.00              | 240              | A1a  | -26.58                   | -27.06       | -15.35       |
| 1.2D + 1.0Ev + 1.0Eh 210°   | 198.00         | 0.00              | 120              | A1b  | 28.05                    | -29.01       | -16.19       |
|                             | 0.00           | 0.00              |                  | 1    | 0.00                     | 147.01       | 0.00         |
|                             | 198.00         | 0.00              | 0                | A1   | 0.00                     | -27.71       | 31.26        |
|                             | 198.00         | 0.00              | 240              | A1a  | -27.07                   | -27.71       | -15.63       |
|                             | 198.00         | 0.00              | 120              | A1b  | 28.53                    | -29.66       | -16.47       |
| 1.2D + 1.0Ev + 1.0Eh 240°   | 0.00           | 0.00              |                  | 1    | 0.00                     | 147.02       | 0.01         |
|                             | 198.00         | 0.00              | 0                | A1   | 0.00                     | -27.24       | 30.85        |
|                             | 198.00         | 0.00              | 240              | A1a  | -27.55                   | -28.36       | -15.91       |
|                             | 198.00         | 0.00              | 120              | A1b  | 28.40                    | -29.49       | -16.40       |
|                             | 0.00           | 0.00              |                  | 1    | 0.00                     | 140.78       | -0.60        |
| 1.0D + 1.0W Service Normal  | 198.00         | 0.00              | 0                | A1   | 0.00                     | -17.33       | 19.94        |
|                             | 198.00         | 0.00              | 240              | A1a  | -33.77                   | -35.43       | -20.22       |
|                             | 198.00         | 0.00              | 120              | A1b  | 33.77                    | -35.43       | -20.22       |
|                             | 0.00           | 0.00              |                  | 1    | -0.49                    | 141.27       | -0.29        |
|                             | 198.00         | 0.00              | 0                | A1   | -0.63                    | -23.71       | 26.55        |
| 1.0D + 1.0W Service 60°     | 198.00         | 0.00              | 240              | A1a  | -39.54                   | -41.55       | -22.84       |
|                             | 198.00         | 0.00              | 120              | A1b  | 22.68                    | -23.72       | -13.81       |
|                             | 0.00           | 0.00              |                  | 1    | -0.58                    | 140.99       | 0.01         |
|                             | 198.00         | 0.00              | 0                | A1   | -0.78                    | -29.51       | 32.88        |
|                             |                |                   |                  |      |                          |              |              |

| DETAILED REACTIONS       |                |                   |                  |      |                          |              |              |
|--------------------------|----------------|-------------------|------------------|------|--------------------------|--------------|--------------|
| Load Case                | Radius<br>(ft) | Elevation<br>(ft) | Azimuth<br>(deg) | Node | *(-) Uplift and (+) Down |              |              |
|                          |                |                   |                  |      | FX*<br>(kip)             | FY*<br>(kip) | FZ*<br>(kip) |
| 1.0D + 1.0W Service 120° | 198.00         | 0.00              | 240              | A1a  | -38.23                   | -39.87       | -21.73       |
|                          | 198.00         | 0.00              | 120              | A1b  | 18.73                    | -19.18       | -11.16       |
|                          | 0.00           | 0.00              |                  | 1    | -0.51                    | 140.80       | 0.30         |
|                          | 198.00         | 0.00              | 0                | A1   | -0.64                    | -35.47       | 39.40        |
|                          | 198.00         | 0.00              | 240              | A1a  | -34.43                   | -35.48       | -19.16       |
| 1.0D + 1.0W Service 180° | 198.00         | 0.00              | 120              | A1b  | 17.22                    | -17.26       | -9.94        |
|                          | 0.00           | 0.00              |                  | 1    | 0.00                     | 141.24       | 0.57         |
|                          | 198.00         | 0.00              | 0                | A1   | 0.00                     | -41.50       | 45.63        |
|                          | 198.00         | 0.00              | 240              | A1a  | -23.31                   | -23.73       | -12.74       |
|                          | 198.00         | 0.00              | 120              | A1b  | 23.31                    | -23.73       | -12.74       |
| 1.0D + 1.0W Service 210° | 0.00           | 0.00              |                  | 1    | 0.30                     | 140.96       | 0.50         |
|                          | 198.00         | 0.00              | 0                | A1   | 0.31                     | -39.85       | 43.97        |
|                          | 198.00         | 0.00              | 240              | A1a  | -19.03                   | -19.17       | -10.63       |
|                          | 198.00         | 0.00              | 120              | A1b  | 28.84                    | -29.51       | -15.77       |
|                          | 0.00           | 0.00              |                  | 1    | 0.51                     | 140.80       | 0.30         |
| 1.0D + 1.0W Service 240° | 198.00         | 0.00              | 0                | A1   | 0.64                     | -35.47       | 39.40        |
|                          | 198.00         | 0.00              | 240              | A1a  | -17.22                   | -17.26       | -9.94        |
|                          | 198.00         | 0.00              | 120              | A1b  | 34.43                    | -35.48       | -19.16       |
|                          | 0.00           | 0.00              |                  | 1    | 0.49                     | 141.27       | -0.29        |
|                          | 198.00         | 0.00              | 0                | A1   | 0.63                     | -23.71       | 26.55        |
| 1.0D + 1.0W Service 300° | 198.00         | 0.00              | 240              | A1a  | -22.68                   | -23.72       | -13.81       |
|                          | 198.00         | 0.00              | 120              | A1b  | 39.54                    | -41.55       | -22.84       |
|                          | 0.00           | 0.00              |                  | 1    | 0.28                     | 140.96       | -0.51        |
|                          | 198.00         | 0.00              | 0                | A1   | 0.31                     | -19.16       | 21.79        |
|                          | 198.00         | 0.00              | 240              | A1a  | -28.08                   | -29.51       | -17.10       |
| 1.0D + 1.0W Service 330° | 198.00         | 0.00              | 120              | A1b  | 37.92                    | -39.86       | -22.25       |

| MAXIMUM GUY ANCHOR REACTIONS |              |                  |                 |                |
|------------------------------|--------------|------------------|-----------------|----------------|
| Radius<br>(ft)               | Drop<br>(ft) | Azimuth<br>(deg) | Uplift<br>(kip) | Shear<br>(kip) |
| 198.00                       | 0.00         | 0                | 94.76           | 100.34         |
| 198.00                       | 0.00         | 120              | 94.85           | 100.41         |
| 198.00                       | 0.00         | 240              | 94.85           | 100.41         |

| MAXIMUM REACTIONS SUMMARY |                                                                        |                  |
|---------------------------|------------------------------------------------------------------------|------------------|
| Base / Anchor Group       | Vertical Load <small>(Compression for Base; Uplift for Anchor)</small> | Horizontal Shear |
| Guyed – Pivot Base        | 222.44 (kip)                                                           | 1.86 (kip)       |
| Guyed Anchor - A1         | 94.85 (kip)                                                            | 100.41 (kip)     |