



Crown Castle
3 Corporate Park Drive, Suite 101
Clifton Park, NY 12065

March 17, 2022

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

**RE: Notice of Exempt Modification for ATT
Crown#876310; ATT Site ID CTL02154
945 East Center Street, Wallingford, CT 06492
Latitude: 41° 26' 37.36" / Longitude: -72° 47' 46.56"**

Dear Ms. Bachman:

ATT currently maintains nine (9) antennas at the 112-foot mount on the existing 148-foot monopole tower located at 945 East Center St, Wallingford, CT. The property is owned by Albert William Beaumont and the tower is owned by Crown Castle. ATT now intends to add three (3) new antennas, replace nine (9) antennas and ancillary equipment at the 112ft level. This modification/proposal includes hardware that is both 4G (LTE) and 5G capable through remote software configuration and either or both services may be turned on or off at various times.

Panned Modification:

Tower:

Installed New:

- (3) CCI – TPA65R-BU6DA-K Antennas
- (6) Ericsson - AIR6449 N77D + AIR 6419 N77G Stacked Antennas
- (3) CCI – DMP65R-BU6DA Antennas
- (3) Ericsson – 4415 B24 RRU
- (3) Ericsson – 4449 B5/B12 RRU
- (1) Ericsson 4478 B14 RRU
- (3) Commscope – PWRT-606-S DC Trunk Cables (7/8")
- (1) Rosenberger Leoni – FB-L98B-235-XXX Fiber Cable (3/8")
- (3) Y Cables

Remove:

- (3) Powerwave-7770 Antennas
- (3) CCI-HPA-65R-BUU-H6 Antennas
- (3) Quintel- QS66512-2 Antennas
- (6) Powerwave – LGP21401 TMAs
- (3) Ericsson- 11 B12 RRU
- (3) Ericsson- 12 B2+A2-B25 RRU
- (6) Kaelus-DBCT108F1V92-1 Diplexers

The Foundation for a Wireless World.
CrownCastle.com

(6) Coax Cables (1-1/4")

Ground:

Install New:

- (1.) 6648 W/XCEDE Cable
- (1) Rectifier

Remove:

- (6) LGP21901 Diplexer
- (3) Ericsson- 4478 B5
- (1) 5216 BBU

The facility was approved by the Town of Wallingford Planning and Zoning Commission on September 8, 1997. The approval was given with conditions which this exempt modification comply with.

Please accept this letter as notification pursuant to Regulations of Connecticut State Agencies §16-50j-73, for construction that constitutes an exempt modification pursuant to R.C.S.A. § 16-50j-72(b)(2). In accordance with R.C.S.A. § 16-50j-73, a copy of this letter is being sent to William W. Dickinson, Jr. – Mayor, Town of Wallingford, Kevin Pagini – Town Planner, Town of Wallingford. Albert W. Beaumont, Property Owner and Crown Castle is the tower owner.

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

For the foregoing reasons, ATT respectfully submits that the proposed modifications to the above-reference telecommunications facility constitutes an exempt modification under R.C.S.A. § 16-50j-72(b)(2). Please send approval/rejection letter to Attn: Jeffrey Barbadora.

Melanie A. Bachman

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Sincerely,


Jeffrey Barbadora

Site Acquisition Specialist

1800 W. Park Drive

Westborough, MA 01581

(781) 970-0053 Jeff.Barbadora@crowncastle.com

Attachments

cc:

William W. Dickinson, Jr. – Mayor
Town of Wallingford
45 South Main Street, Room#310
Wallingford, CT 06492
(203) 294-2070

Kevin Pagini – Town Planner
Town of Wallingford
45 South Main Street, Room# G-40
Wallingford, CT 06492
(203) 294-2090

Albert W. Beaumont – Property Owner
945 East Center Street
Wallingford, CT 06492

Crown Castle, Tower Owner

**HARRIS
BEACH &
WILCOX**

A LIMITED LIABILITY PARTNERSHIP

ATTORNEYS AT LAW

147 NORTH BROAD STREET
PO. BOX 112
MILFORD, CONNECTICUT 06460-0112
(203) 877-8000
(203) 878-9800 (FAX)

MEMO

To : Steve Paisner, Sprint Spectrum L.P.
From : Lewis A. Hurwitz, Esq., Harris Beach & Wilcox
Date : 9/9/97
Re : Wallingford, Sites 008 and 009
cc : Steve Crotty, Steve Kotfila, Christine Rosenthal, Jennifer Charland,
Scott Chasse, Kate Peabody, Tom Flynn

Please be advised that on September 8, 1997, the Wallingford Zoning Board approved our applications to construct monopoles at Beaumont's Farm and the Suzio property. There were conditions in regard to the Beaumont Farm application, details of which will be supplied in the letter of approval. However, it should be noted that a second row of 20' trees is being required. In addition, the Board reserved the right to inform us as to what color to paint the tower. We should have a response from them in a very short period of time in regard to this issue.

This was a very difficult and hard fight. The Beaumont Farm vote was three to two and without the conditions I do not believe we would have prevailed.

End of Memo

— AFFILIATES —
LIVORNO
LONDON

PARIS
OSLO

WASHINGTON, DC
MT. PLEASANT, CT
HACKENSACK, NJ

— ALBANY —
BUFFALO

NEW YORK
ITHACA
NEW YORK CITY

— ROCHESTER —
SYRACUSE

Kotfila, Steve

From: Chasse, Scott
Sent: Monday, September 29, 1997 7:57 AM
To: Rosenthal, Christine
Cc: Kotfila, Steve
Subject: RE: 008 Lawsuit
Importance: High

PostHC is not necessary at this time. Lets accumulate information first.

From: Rosenthal, Christine
Sent: Monday, September 29, 1997 7:47 AM
To: Chasse, Scott
Cc: Charland, Jennifer
Subject: RE: 008 Lawsuit

At the public hearing, the change in the *application* was cited as being our agreement to maintain the trees as screening. Lew Hurwitz pointed out right then and there that that was a private matter and did not affect our *application* as it stood. Is that what you are asking about? You should bring Lew in on dissecting the lawsuit because he would know how defensible each point is. I don't think that we changed the site plan until after the entire application was heard and decided upon. Confirm with Jenn. Shall I organize a Post-Hearing Conference on this one?

From: Chasse, Scott
Sent: Monday, September 29, 1997 7:40 AM
To: Charland, Jennifer; Flynn, Tom; Johnson, Karen; Knuff, John; Rosenthal, Christine
Subject: 008 Lawsuit
Importance: High

One of the items in the lawsuit against us states that our site plan was changed at the Sept. 8, 1997 hearing. Was this due to the tower foundation size being larger than expected and therefore, necessitating that we move the tower within the compound? If so, at who's direction was this done prior to getting the zoning approval? Something as mundane as moving the tower within the compound should have waited until after the approval, then amend the site plans of record to conform with the realities of construction.



MEMORANDUM

TO: JEN CHARLAND
FROM: TOM FLYNN *[Handwritten Signature]*
RE: 03:008 BEAUMONT FARM
DATE: SEPT. 10, 1997

AS YOU KNOW, THE ABOVE NOTED SPECIAL PERMIT APPLICATION WAS APPROVED ON MONDAY, SEPTEMBER 8, 1997. THERE ARE SEVERAL CONDITIONS THAT WILL EFFECT THE PROCESS OF OBTAINING A BUILDING PERMIT.

1. THE TOWN HAS REQUIRED A \$1000.00 SEDIMENTATION AND EROSION CONTROL BOND. THIS BOND MAY BE IN THE FORM OF CASH, A SURETY BOND OR LETTER OF CREDIT, WHICHEVER IS MOST CONVENIENT FOR SPRINT TO OBTAIN.
2. THE TOWN HAS REQUIRED A REVISED LANDSCAPE PLAN THAT SHOWS A LINE OF EVERGREEN TREES (3 DIFFERENT SPECIES AND AT LEAST 20' TALL AT PLANTING) ON THE PERIMETER OF THE LEASE AREA.
3. I WILL NEED A MYLAR FOR RECORDING AND 5 CLEAN COPIES OF THE PLANS, INCLUDING THE REVISED LANDSCAPE PLANS, FOR DELIVERY TO THE PLANNING OFFICE PRIOR TO ISSUANCE OF THE BUILDING PERMIT.
4. WE CAN MAKE APPLICATION FOR THE BUILDING PERMIT PRIOR THE END OF THE APPEAL PERIOD, BUT WILL NEED THE ABOVE NOTED ITEMS PRIOR TO ANY SIGN OFF BY THE PZC.

C/O

SPRINT PCS 9 BARNES INDUSTRIAL ROAD WALLINGFORD, CT. 06429 203-294-5620

Kotfila, Steve

From: Paisner, Steven
Sent: Thursday, November 20, 1997 2:04 PM
To: Lindblad, Ernest; Kotfila, Steve
Subject: Couple of Items

I spoke to Lew Hurwitz...

- 1). WESTBROOK - He agrees that any attorney that tries to exclude another attorney (i.e. Westbrook not allowing Lew to attend today) is up to something no good and non attendance is the way to go.
- 2). WALLINGFORD - Beaumont appeal. KC agrees to stall as long as necessary and make it as tough as possible/expensive on the citizen appeal. Hence, Lew has filed to transfer the case from Superior court to Federal District court...probably the first of several such requests. In the meantime, we are on the air...Ok aside from having to pay more legal bills ourselves.

Kotfila, Steve

From: Kotfila, Steve
Sent: Friday, May 22, 1998 7:05 AM
To: Carrozzella, Bill
Cc: Cashin, Julie; Gelinias, Chris
Subject: RE: Wallingford # 008 - Beaumont
Importance: High

So long as this language does not prohibit us from doing a structural replacement. For that to take place there will be a short period where there would be 2 towers in the compound, but only long enough to effect the swap over of antennas, pulling of a demo permit and dismantling of the old tower. 90 days should cover this evolution.

From: Carrozzella, Bill
Sent: Thursday, May 21, 1998 11:03 AM
To: Kotfila, Steve
Cc: Cashin, Julie; Gelinias, Chris
Subject: Wallingford # 008 - Beaumont

In my discussions with Bill Beaumont he has requested that Sprint not install a second tower within the lease area. Please let me know if it is OK to agree to that.

If we do I will have included in the lease amendment that Sprint still retains the right to replace the existing tower even with a taller tower.

Please advise.

Memo

To: Julie Cashin
From: Bill Carrozzella
CC: C. Gelinias; S. Kotfila
Date: May 20, 1998
Re: Wallingford - Beaumont Farm # 008

Julie, I have reviewed the Owner Consent and Lease Amendment for the Bell/SNET sublease. Can you please make the following revisions:

Owner Consent:

Can the references (and exhibits) to the BANM and SNET Subleases be eliminated? These subleases may not be signed for several weeks or months in the case of Bell. I would like to have the landlord consent finalized ASAP so the additional rent does not go up while we wait for the Bell and SNET agreements to be signed.

Amendment to Lease:

Please add a temporary construction easement to this amendment. Bell and SNET may have to access the site for construction over other land owned by landlord as opposed to the existing access easement afforded Sprint. I'd suggest making this temp construction easement broad such as "Landlord shall grant to Subtenants a temporary access easement for the purposes of installing its equipment. This easement shall allow access to the Site through Landlord's adjacent land surrounding the Site in an area to be mutually agreed upon by Landlord and each Subtenant."

Please let me know if you have any questions.

Thanks for your help.

CONSTRUCTION DETAIL (CONTINUED)

Element	Cd.	Ch.	Description
Style	03		Colonial
Model	01		Residential
Grade	B		
Stories	2		2 Stories
Occupancy	1		
Exterior Wall 1	14		Wood Shingle
Exterior Wall 2			
Roof Structure	04		Hip
Roof Cover	03		Asphalt
Interior Wall 1	03		Plastered
Interior Wall 2	05		Drywall
Interior Flr 1	12		Hardwood
Interior Flr 2	09		Pine/Soft Wood
Heat Fuel	02		Oil
Heat Type	05		Hot Water
AC Type	01		None
Total Bedrooms	06		6 Bedrooms
Total Bthrms	2		
Total Half Baths	0		
Total Xtra Fixtrs			
Total Rooms	12		
Bath Style	02		Average
Kitchen Style	02		Average
Whirlpool Tub			
Fireplaces	2		

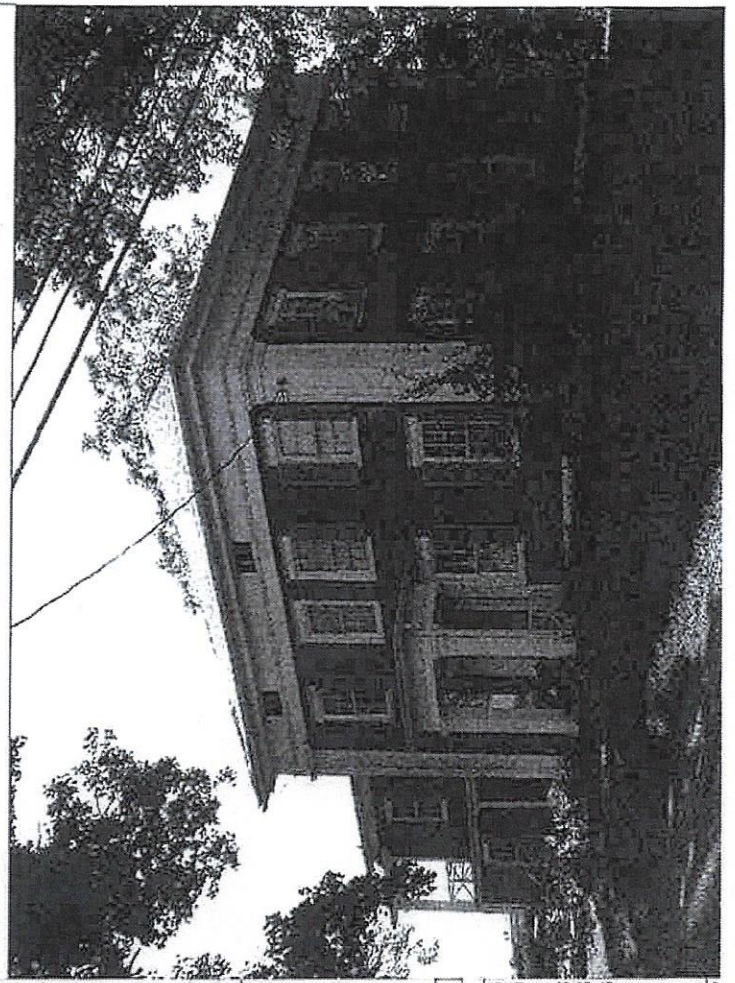
Code	Description	Sub	Sub Description	L/B	Units	Unit Price	Yr	Gde	Dp	Rt	Cnd	%Cnd	Apr	Value
GRN3	Pipe + Plastic	G5		L	2,400	4.00	1996	C			A	50	4,800	
GRN3	Pipe + Plastic	G6		L	2,880	4.00	1996	C			F	30	3,500	
IMP	Implement She			L	1,296	6.00	1940	C			A	50	3,900	
SHD1	Shed Frame			L	1,008	10.00	1940	C			A	50	5,000	
IMP	Implement She			L	840	6.00	1940	C			A	50	2,500	
IMP	Implement She			L	720	6.00	1940	C			NV	0	0	
IMP	Implement She			L	840	6.00	1940	C			NV	0	0	
IMP	Implement She			L	1,350	6.00	1940	C			NV	0	0	
SHD1	Shed Frame	S7		L	100	10.00	1940	C			NV	0	0	

OB-BUILDING & YARD ITEMS(L) / XF-BUILDING EXTRA FEATURES(B)														
Code	Description	Sub	Sub Description	L/B	Units	Unit Price	Yr	Gde	Dp	Rt	Cnd	%Cnd	Apr	Value
BAS	First Floor				1,364		1,364					92.63		126,345
CRL	Crawl Space				0	464						0.00		0
FOP	Porch, Open				50	250						18.53		4,631
FUS	Upper Story, Finished				1,316		1,316					92.63		121,898
UAT	Attic, Unfinished				0	900						13.89		12,505
UBM	Basement, Unfinished				0	900						18.53		16,673

BUILDING SUB-AREA SUMMARY SECTION													
Code	Description	Living Area	Gross Area	Eff. Area	Unit Cost	Undeprac. Value							
BAS	First Floor	1,364	1,364	1,364	92.63	126,345							
CRL	Crawl Space	0	464	0	0.00	0							
FOP	Porch, Open	50	250	50	18.53	4,631							
FUS	Upper Story, Finished	1,316	1,316	1,316	92.63	121,898							
UAT	Attic, Unfinished	0	900	135	13.89	12,505							
UBM	Basement, Unfinished	0	900	180	18.53	16,673							
Totl Gross Infl Area		7,680	5,104	3,045		307,457							

Code	Description	Percentage
1010	Single Family	100

COST/MARKET VALUATION			
Adj. Base Rate:		92.63	
Net Other Adj:		282,052	
Replace Cost		20,400.00	
AYB		302,452	
Dep Code	P		
Remodel Rating			
Year Remodeled			
Dep %		49	
Functional ObsInc			
External ObsInc			
Cost Trend Factor			
Status			
% Complete		51	
Overall % Contd		154,300	
Apprais Val		0	
Dep % Ovr		0	
Dep Ovr Comment			
Misc Imp Ovr		0	
Misc Imp Ovr Comment			
Cost to Cure Ovr		0	
Cost to Cure Ovr Comment			



Property Location: 945 EAST CENTER ST
 Vision ID: 1293
 Account # B0226901
 MAP ID: 151/ / 98/ /
 Bldg #: 1 of 1
 Sec #: 1 of 3
 Bldg Name: 1010
 Print Date: 12/02/2016 11:27
 State Use: 1010

CURRENT ASSESSMENT
 BEAUMONT ALBERT WILLIAM
 945 E CENTER ST
 WALLINGFORD, CT 06492
 Additional Owners:
 6148
 WALLINGFORD, CT
VISION

Yr.	Code	Assessed Value	Yr.	Code	Assessed Value
2015	1-1	77,300	2013	1-1	77,300
2015	1-2	6,800	2013	1-2	6,800
2015	1-3	108,000	2013	1-3	108,000
2015	1-4	546,200	2013	1-4	496,100
2015	4-1	70,000	2013	4-1	70,000
Total:		821,100	Total:		765,800

RECORD OF OWNERSHIP
 BEAUMONT ALBERT WILLIAM
 BEAUMONT ALBERT J JR

EXEMPTIONS
 Description
 Amount
 Code
 Number
 Amount
 Comm. Int.

OTHER ASSESSMENTS
 Description
 Number
 Amount
 Comm. Int.

ASSESSING NEIGHBORHOOD
 Street Index Name
 Tracing
 Batch

NOTES
 DOWN=VP COND/2ND FLR = F. COND
 CORRECTED FARM BUILDING SIZES FOR THE
 2006 GRAND LIST 4 NEW FARM BUILDINGS
 FOR 2007 GL
 CELL TOWER VALUED ON 15/1/98/2

APRAISED VALUE SUMMARY

Appraised Bldg. Value (Card) 154,300
 Appraised XF (B) Value (Bldg) 780,200
 Appraised OB (L) Value (Bldg) 220,100
 Appraised Land Value (Bldg) 224,400
 Special Land Value 1,379,000
 Total Appraised Parcel Value 1,379,000
 Valuation Method: C
 Adjustment: 0
 Net Total Appraised Parcel Value 1,379,000

PREVIOUS ASSESSMENTS (HISTORY)

Yr.	Code	Assessed Value	Yr.	Code	Assessed Value
2015	1-1	77,300	2013	1-1	77,300
2015	1-2	6,800	2013	1-2	6,800
2015	1-3	108,000	2013	1-3	108,000
2015	1-4	546,200	2013	1-4	496,100
2015	4-1	70,000	2013	4-1	70,000
Total:		821,100	Total:		765,800

EXEMPTIONS

Yr.	Code	Assessed Value	Yr.	Code	Assessed Value
2015	1-1	77,300	2013	1-1	77,300
2015	1-2	6,800	2013	1-2	6,800
2015	1-3	108,000	2013	1-3	108,000
2015	1-4	546,200	2013	1-4	496,100
2015	4-1	70,000	2013	4-1	70,000
Total:		821,100	Total:		765,800

ASSESSING NEIGHBORHOOD

Yr.	Code	Assessed Value	Yr.	Code	Assessed Value
2015	1-1	77,300	2013	1-1	77,300
2015	1-2	6,800	2013	1-2	6,800
2015	1-3	108,000	2013	1-3	108,000
2015	1-4	546,200	2013	1-4	496,100
2015	4-1	70,000	2013	4-1	70,000
Total:		821,100	Total:		765,800

BUILDING PERMIT RECORD

Permit ID	Issue Date	Type	Description	Amount	Insp. Date	% Comp.	Date Comp.	Comments
27234	11/13/2012	CM	Commercial	112,000	07/30/2013	100		4 GREENHOUSES
25068	10/12/2010	RS	Residential	3,500	08/22/2011	100		BARN ROOF
25067	10/12/2010	CM	Commercial	3,200	08/22/2011	100		HOUSE ROOF
24367	02/04/2010	CM	Commercial	6,000	07/23/2010	100	07/23/2010	RPL 6 ANTENNAS
24364	02/03/2010	CM	Commercial	20,000	07/23/2010	100	07/23/2010	MODIFY FACILITY
20744	07/06/2006	CM	Commercial	10,000	09/07/2006	100	09/07/2006	RPL 6 ANTENNAS/ADI

LAND LINE VALUATION SECTION

B Use #	Code	Use Description	Zone	D	Front	Depth	Units	Unit Price	Factor S.A.	Acres	Disc	Factor	Adj.	Notes-Adj	Special Pricing	Spec Calc	Spec Use	Type	Date	IS	ID	Cd	Purpose/Result	Land Value
1	1010	Single Family	R18		18,000	SF	6.15	1,000.00	5	1.00000	0	1.00	110	1.05	TF1	95	02	02	11/06/2015	1	KC	63	Permit Check - No Measu.	110,400
1	1010	Single Family	R18		0.92	AC	10,000.00	1,000.00	0	1.00000	0	1.00	110	1.05		1.00	06	02	09/18/2015	1	V	29	Field Review	9,700
1	7120	Tillable C	R18		24.50	AC	10,000.00	1,000.00	0	1.00000	0	0.75	110	1.05		1.00	06	02	12/04/2014	1	KC	63	Permit Check - No Measu	192,900
1	7140	Orchards	R18		1.00	AC	10,000.00	1,000.00	0	1.00000	0	1.00	110	1.05		1.00	06	06	09/05/2013	1	SJ	16	Letter Sent-Cost Informa	10,500
1	7170	Woodland	R18		2.00	AC	10,000.00	1,000.00	0	1.00000	0	1.00	110	1.05		1.00	06	06	08/07/2013	1	SJ	16	Letter Sent-Cost Informa	21,000
Total Card Land Units:														28.83 AC	Parcel Total Land Area:		29 AC	Total Land Value:		344,500				

CONSTRUCTION DETAIL (CONTINUED)

CONSTRUCTION DETAIL

Element	Cd.	Ch.	Description
			MIXED USE
			Description
			Percentage
			100
			COST/MARKET VALUATION

Cost Trend Factor

OB-OUTBUILDING & YARD ITEMS(L) / XF-BUILDING EXTRA FEATURES(B)

Code	Description	Sub	Sub Description	L/B	Units	Unit Price	Yr	Gde	Dp	Rt	Cnd	%Cnd	Apr Value
SHD1	Shed Frame			L	270	10.00	1940	C			A	50	1,400
BRN4	1 Stry Loft & E		B1-RED BARN	L	1,500	38.00	1940	C			A	50	28,500
BRN1	Barn 1 Stry		B2- GREY BA	L	1,632	22.00	1985	C			G	75	26,900
BRN1	Barn 1 Stry		B3- YELLOW	L	1,936	22.00	1920	C			A	50	21,300
SHD4	Pump Hse			L	8,000	54.00	1999	C			A	50	216,000
LNT	Lean-To			L	1,280	4.00	2007	C			A	50	2,600
FGR1	Garage-Avg			L	484	30.00	1996	C			A	50	7,300
GRN4	Com Plastic Gc			L	60,000	6.00	2013	C			E	90	324,000
GRN4	Com Plastic Gc			L	11,256	6.00	2012	C			E	90	60,800

No Photo On Record

BUILDING SUB-AREA SUMMARY SECTION

Code	Description	Living Area	Gross Area	Eff. Area	Unit Cost	Undeprac. Value
		0	0	0	0	302,452
Ttl. Gross Liv/Lease Area:						

Property Location: 945 EAST CENTER ST
 Vision ID: 1293
 MAP ID: 151//98//
 Bldg #: 1 of 1
 Bldg Name: 1 Card 2 of 3
 State Use: 1010
 Print Date: 12/02/2016 11:27

CURRENT OWNER
 BEAUMONT ALBERT WILLIAM
 945 E CENTER ST
 WALLINGFORD, CT 06492
 Additional Owners:

UTILITIES
 STRT. ROAD
 LOCATION

SUPPLEMENTAL DATA
 Other ID: 024001002

RECORD OF OWNERSHIP
 GIS ID: 151/98
 ASSOC PID#

Yr.	Code	Assessed Value	Yr.	Code	Assessed Value
TOTAL		1,379,000	TOTAL		821,100
PREVIOUS ASSESSMENTS (HISTORY)					

EXEMPTIONS

Year	Type	Description	Amount	Code	Amount	Number	Comm. Int.
TOTAL:							

ASSESSING NEIGHBORHOOD

NBHD/ SUB	Street Index Name	Tracing	Batch
110/A			
TOTAL:			

APPRaised VALUE SUMMARY

Appraised Bldg. Value (Card)	154,300
Appraised XF (B) Value (Bldg)	0
Appraised OB (L) Value (Bldg)	780,200
Appraised Land Value (Bldg)	220,100
Special Land Value	224,400
Total Appraised Parcel Value	1,379,000

Valuation Method: C

Adjustment: 0

BUILDING PERMIT RECORD

Permit ID	Issue Date	Type	Description	Amount	Insp. Date	% Comp.	Date Comp.	Comments
TOTAL Appraised Parcel Value								

VISIT/CHANGE HISTORY

Date	Type	IS	ID	Cd.	Purpose/Result
Net Total Appraised Parcel Value					

LAND LINE VALUATION SECTION

Use Code	Use Description	Zone	D	Front Depth	Units	Unit Price	I	Factor S.A.	Disc	Acre C.	ST.	Factor	Tax	Adj.	Notes-Adj	Special Pricing	Spec Use	Spec Cate	S Adj	Fac	Adj.	Unit Price	Land Value
1	431V TEL REL TW M00	R18			1.00	BL	100,000.00	1.0000	0	1.0000	1.00	1.00	0.00	0.00	CELL SITE	FF	0.01		1.00	1.00	100,000.00	100,000	
1	8000 Frontage	R18			1,600.00	FF	0.00	1.0000	0	1.0000	1.00	1.00	1.05	1.05	CELL SITE AREA				.00	.00	0.00	0	
1	431V TEL REL TW M00				7,350	SF	0.00	1.0000	0	1.0000	1.00	1.00	0.00	0.00	CELL SITE AREA				.00	.00	0.00	0	
Total Card Land Units: 0.17 AC Parcel Total Land Area: 29 AC																							
																					Total Land Value:	100,000	

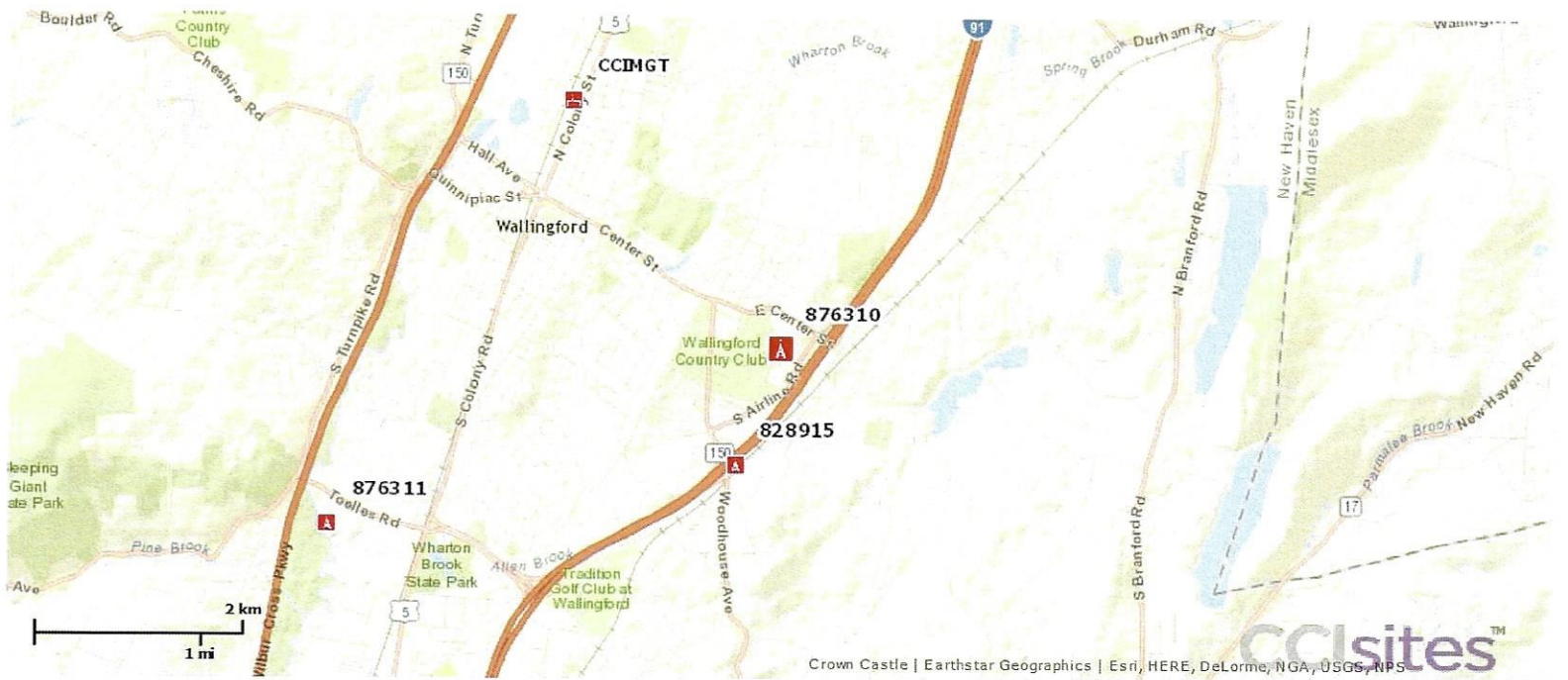
Property Location: 945 EAST CENTER ST
 Vision ID: 1293
 MAP ID: 151/98/
 Bldg Name: Bldg # 1 of 1
 Card 3 of 3
 State Use: 1010
 Print Date: 12/02/2016 11:27

CURRENT OWNER: BEAUMONT ALBERT WILLIAM
 945 E CENTER ST
 WALLINGFORD, CT 06492
 Additional Owners:
 TOPO: UTILITIES STRT./ROAD LOCATION
 SUPPLEMENTAL DATA
 Other ID: 02-4001002
 ASSOC PID#: BK-VOL/PAGE SALE DATE 10/14 w/ SALE PRICE V.C.
 GIS ID: 151/98
 CURRENT ASSESSMENT
 Appraised Value: 1,379,000
 Assessed Value: 821,100
 WALLINGFORD, CT 6148
VISION

Year	Type	Description	Amount	Code	Number	Amount	Commi. Int.
RECORD OF OWNERSHIP							
EXEMPTIONS							
OTHER ASSESSMENTS							
ASSESSING NEIGHBORHOOD							
NOTES							
APPRaised VALUE SUMMARY							
Appraised Bldg. Value (Card)						154,300	
Appraised XF (B) Value (Bldg)						780,200	
Appraised OB (L) Value (Bldg)						220,100	
Appraised Land Value (Bldg)						224,400	
Special Land Value						1,379,000	
Total Appraised Parcel Value						1,379,000	
Valuation Method:						C	
Adjustment:						0	
Net Total Appraised Parcel Value						1,379,000	

Permit ID	Issue Date	Type	Description	Amount	Insp. Date	% Comp.	Date Comp.	Comments	
BUILDING PERMIT RECORD									
VISIT/CHANGE HISTORY									
Permit ID	Issue Date	Type	Description	Amount	Insp. Date	% Comp.	Date Comp.	Comments	
LAND LINE VALUATION SECTION									
B #	Use Code	Use Description	Zone	D	Front	Depth	Units	Unit Price	
			I.	Factor	S.A.	Adj.	Notes- Adj.	Special Pricing Spec Calc	
			C.	ST.	Factor	Adj.	Notes- Adj.	S. Adj. Fact	
			Adj.	Unit Price	Land Value				
Total Card Land Units:			0.00 AC			Parcel Total Land Area: 29 AC			Total Land Value: 0

This signature acknowledges a visit by a Data Collector or Assessor



Crown Castle | Earthstar Geographics | Esri, HERE, DeLorme, NGA, USGS, NPS

ccsites™

Barbadora, Jeff

From: TrackingUpdates@fedex.com
Sent: Friday, March 18, 2022 10:01 AM
To: Barbadora, Jeff
Subject: FedEx Shipment 776327830367: Your package has been delivered

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Hi. Your package was
delivered Fri, 03/18/2022 at
10:00am.



Delivered to 45 S MAIN ST, WALLINGFORD, CT 06492
Received by J.STAVE

OBTAIN PROOF OF DELIVERY

TRACKING NUMBER [776327830367](#)

FROM Jeff Barbadora
1800 W. Park Drive
WESTBOROUGH, MA, US, 01581

TO Town of Wallingford
William Dickinson Jr. - Mayor
45 South Main Street
Room #310
WALLINGFORD, CT, US, 06492

REFERENCE 799001.7680

SHIPPER REFERENCE 799001.7680

SHIP DATE Thu 3/17/2022 05:30 PM

DELIVERED TO Receptionist/Front Desk

PACKAGING TYPE FedEx Envelope

ORIGIN WESTBOROUGH, MA, US, 01581

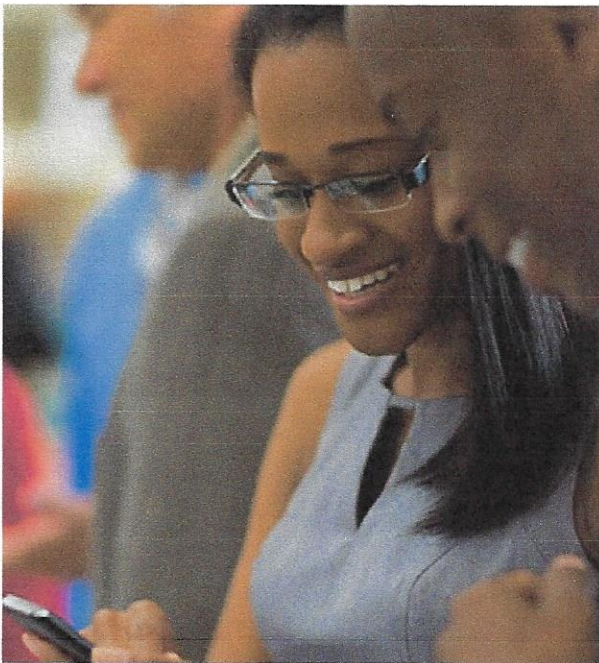
DESTINATION WALLINGFORD, CT, US, 06492

SPECIAL HANDLING Deliver Weekday

NUMBER OF PIECES 1

TOTAL SHIPMENT WEIGHT 0.50 LB

SERVICE TYPE FedEx Priority Overnight



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Hi. Your package was
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9:56am.



Delivered to 45 S MAIN ST, WALLINGFORD, CT 06492
Received by A.TORRE

OBTAIN PROOF OF DELIVERY

TRACKING NUMBER [776327860006](#)

FROM Jeff Barbadora
1800 W. Park Drive
WESTBOROUGH, MA, US, 01581

TO Town of Wallingford
Kevin Pagini - Town Planner
45 South Main Street
Room #G-40
WALLINGFORD, CT, US, 06492

REFERENCE 799001.7680

SHIPPER REFERENCE 799001.7680

SHIP DATE Thu 3/17/2022 05:30 PM

DELIVERED TO Receptionist/Front Desk

PACKAGING TYPE FedEx Envelope

ORIGIN WESTBOROUGH, MA, US, 01581

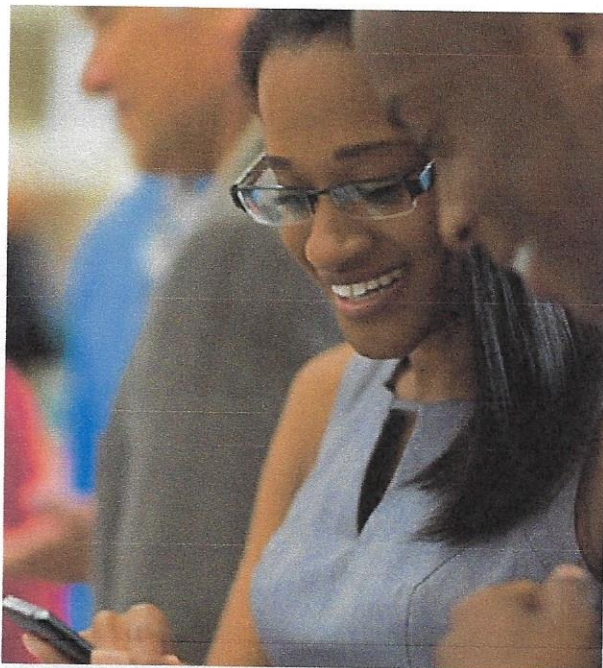
DESTINATION WALLINGFORD, CT, US, 06492

SPECIAL HANDLING Deliver Weekday

NUMBER OF PIECES 1

TOTAL SHIPMENT WEIGHT 2.00 LB

SERVICE TYPE FedEx Priority Overnight



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To: Barbadora, Jeff
Subject: FedEx Shipment 776327940393: Your package has been delivered

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Hi. Your package was
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10:38am.



Delivered to 945 E CENTER ST, WALLINGFORD, CT 06492

OBTAIN PROOF OF DELIVERY

TRACKING NUMBER [776327940393](#)

FROM Jeff Barbadora
1800 W. Park Drive
WESTBOROUGH, MA, US, 01581

TO Property Owner
Albert W. Beaumont
945 East Center Street
WALLINGFORD, CT, US, 06492

REFERENCE 799001.7680

SHIPPER REFERENCE 799001.7680

SHIP DATE Thu 3/17/2022 05:30 PM

DELIVERED TO Residence

PACKAGING TYPE FedEx Envelope

ORIGIN WESTBOROUGH, MA, US, 01581

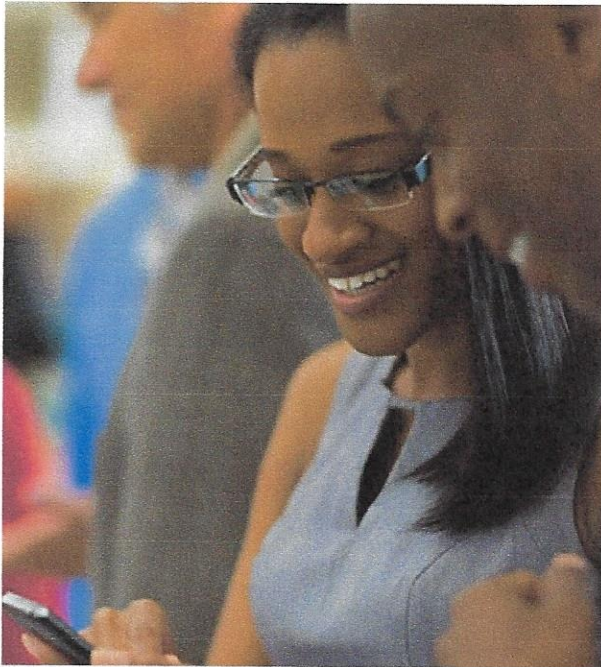
DESTINATION WALLINGFORD, CT, US, 06492

SPECIAL HANDLING Deliver Weekday
Residential Delivery

NUMBER OF PIECES 1

TOTAL SHIPMENT WEIGHT 0.50 LB

SERVICE TYPE FedEx Priority Overnight



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Date: **January 18, 2022**



B+T Group
1717 S. Boulder, Suite 300
Tulsa, OK 74119
(918) 587-4630

Subject: **Structural Analysis Report**

Carrier Designation: **AT&T Mobility Co-Locate**
Site Number: CTL02154
Site Name: WALLINGFORD
FA Number: 10035139

Crown Castle Designation: **BU Number:** 876310
Site Name: BEAUMONT FARM
JDE Job Number: 686292
Work Order Number: 2062857
Order Number: 586260 Rev. 0

Engineering Firm Designation: **B+T Group Project Number:** 100049.005.01

Site Data: **945 East Center St., Wallingford, New Haven County, CT**
Latitude 41° 26' 37.36", Longitude -72° 47' 46.56"
147 Foot - Monopole Tower

B+T Group is pleased to submit this “**Structural Analysis Report**” to determine the structural integrity of the above-mentioned tower.

The purpose of the analysis is to determine acceptability of the tower stress level. Based on our analysis we have determined the tower stress level for the structure and foundation, under the following load case, to be:

LC7: Proposed Equipment Configuration **Sufficient Capacity – 90.1%**

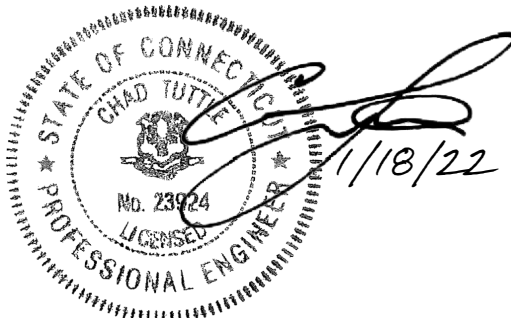
This analysis utilizes an ultimate 3-second gust wind speed of 120 mph as required by the 2018 Connecticut State Building Code. Applicable Standard references and design criteria are listed in Section 2 - Analysis Criteria.

This submission contains confidential, proprietary, or trade secret information that is exempt from disclosure under applicable laws. Please make sure these pages are not disclosed. If any request is made for this information, please contact the sender in addition to any legal notice requirements under applicable law.

Disclaimer provided by AT&T. This statement does not constitute engineering analysis or design

Structural analysis prepared by: Rose Denny

Respectfully submitted by: B+T Engineering, Inc.
COA: PEC.0001564; Expires: 02/10/2022



Chad E. Tuttle, P.E.

tnxTower Report - version 8.1.1.0

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1) INTRODUCTION

This tower is a 133 ft. Monopole tower designed by Summit.

The tower has been modified per reinforcement drawings prepared by URS Greiner Woodward Clyde in December of 1999. Reinforcement consists of 14-ft tower extension, bringing the total tower height to 147 ft.

2) ANALYSIS CRITERIA

TIA-222 Revision:	TIA-222-H
Risk Category:	II
Wind Speed:	120 mph
Exposure Category:	C
Topographic Factor:	1
Ice Thickness:	1 in
Wind Speed with Ice:	50 mph
Service Wind Speed:	60 mph

Table 1 - Proposed Equipment Configuration

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
111.0	114.0	3	Ericsson	AIR 6419 B77G_CCIV2	6 3 4 3	1-1/4 7/8 13/16 3/8
		3	CCI Antennas	DMP65R-BU6D		
		3	CCI Antennas	TPA65R-BU6D_CCIV2		
		3	Ericsson	RRUS 32 B30		
	112.0	3	Ericsson	RRUS 4415 B25_CCIV2		
		3	Ericsson	RRUS 4426 B66		
		3	Ericsson	RRUS 4449 B5/B12		
		3	Ericsson	RRUS 4478 B14_CCIV2		
		2	Raycap	DC6-48-60-18-8F		
	111.0	1	--	Platform Mount [LP 1201-1_HR-1]		
		110.0	3	Ericsson		

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Table 2 - Other Considered Equipment

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
143.0	143.0	3	Fujitsu	TA08025-B604	1	1-1/2
		3	Fujitsu	TA08025-B605		
		3	JMA Wireless	MX08FRO665-21		
		1	Raycap	RDIDC-9181-PF-48		
		1	Commscope	MC-PK8-DSH		

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
130.0	134.0	1	Andrew	VHLP1-23-DW1	3 1 6 3	1-1/4 7/8 5/16 Elliptical
		1	Andrew	VHLP2-23		
	131.0	1	Andrew	VHLP800-11		
	130.0	3	Alcatel Lucent	1900MHZ RRH (65MHZ)		
		3	Alcatel Lucent	800 EXTERNAL NOTCH FILTER		
		3	Alcatel Lucent	800MHZ RRH		
		3	Alcatel Lucent	TD-RRH8X20-25		
		3	Argus Techn.	LLPX310R-V1		
		9	RFS Celwave	ACU-A20-N		
		1	RFS Celwave	APXV9ERR18-C-A20		
		2	RFS Celwave	APXVSPP18-C-A20		
		3	RFS Celwave	APXVTM14-C-120		
		3	Samsung Telecom.	RRH-2WB		
		1	--	Platform Mount [LP 1201-1_HR-1]		
124.0	125.0	6	Commscope	SBNHH-1D65B	14	1-5/8
	124.0	3	Alcatel Lucent	B13 RRH 4X30		
		2	Antel	BXA-70063/6CFX2		
		1	Antel	BXA-70063/6CFX4		
		2	Antel	LPA-80063/6CF		
		4	Antel	LPA-80080-6CF-EDIN		
		3	Nokia	B25 RRH4X30 (UHFA)		
		3	Nokia	B66A RRH4X45 (UHIE)		
		2	Raycap	RRFDC-3315-PF-48		
		6	RFS Celwave	FD9R6004/2C-3L		
		1	--	Platform Mount [LP 1201-1_KCKR-HR-1]		
70.0	70.0	1	Kathrein	OG-860/1920/GPS-A	1	1/2
		1	--	Side Arm Mount [SO 701-1]		

3) ANALYSIS PROCEDURE

Table 3 - Documents Provided

Document	Reference	Source
Tower Manufacturer Drawing	1855980	CCI Sites
Mount Analysis Report	10141572	CCI Sites
Tower Modification Drawing	2015154	CCI Sites
Foundation Drawing	1855118	CCI Sites
Geotech Report	1531484	CCI Sites
Crown CAD Package	Date: 12/30/2021	CCI Sites

3.1) Analysis Method

tnxTower (version 8.1.1.0), a commercially available analysis software package, was used to create a three-dimensional model of the tower and calculate member stresses for various loading cases. Selected output from the analysis is included in Appendix A. When applicable, Crown Castle has calculated and provided the effective area for panel antennas using approved methods following the intent of the TIA-222 standard.

3.2) Assumptions

- 1) The tower and structures were maintained in accordance with the - TIA-222 standard.
- 2) The configuration of antennas, transmission cables, mounts and other appurtenances are as specified in Tables 1 and 2 and the referenced drawings.

This analysis may be affected if any assumptions are not valid or have been made in error. B+T Group should be notified to determine the effect on the structural integrity of the tower.

4) ANALYSIS RESULTS

Table 4 - Section Capacity (Summary)

Section No.	Elevation (ft)	Component Type	Size	Critical Element	P (K)	SF*P_allow (K)	% Capacity	Pass / Fail
L1	147 - 133.5	Pole	TP12.75x12.75x0.5	1	-3.698	636.438	19.9	Pass
L2	133.5 - 133	Pole	TP19.537x12.75x0.5	2	-3.724	636.438	19.9	Pass
L3	133 - 85.5	Pole	TP29.418x19.537x0.313	3	-22.624	1750.759	76.1	Pass
L4	85.5 - 42.75	Pole	TP37.687x28.013x0.375	4	-32.779	2694.163	90.1	Pass
L5	42.75 - 0	Pole	TP45.83x35.949x0.438	5	-48.322	3927.924	87.1	Pass
							Summary	
						Pole (L4)	90.1	Pass
						Rating =	90.1	Pass

Table 5 - Tower Component Stresses vs. Capacity – LC7

Notes	Component	Elevation (ft)	% Capacity	Pass / Fail
1,2	Flange Connection	133	48.7	Pass
1,2	Anchor Rods	Base	77.3	Pass
1,2	Base Plate	Base	79.7	Pass
1,2	Base Foundation (Structure)	Base	24.8	Pass
1,2	Base Foundation (Soil Interaction)	Base	86.4	Pass
1,2	Concrete Breakout	Base	88.26	Pass

Structure Rating (max from all components) =	90.1%
---	--------------

Notes:

- 1) See additional documentation in "Appendix C – Additional Calculations" for calculations supporting the % capacity consumed.
- 2) Rating per TIA-222-H Section 15.5.

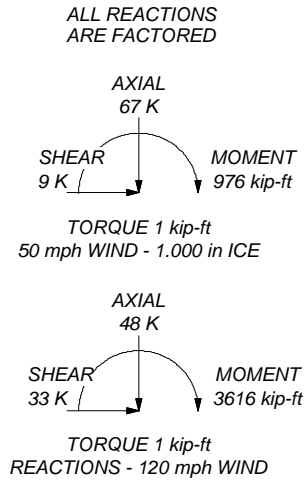
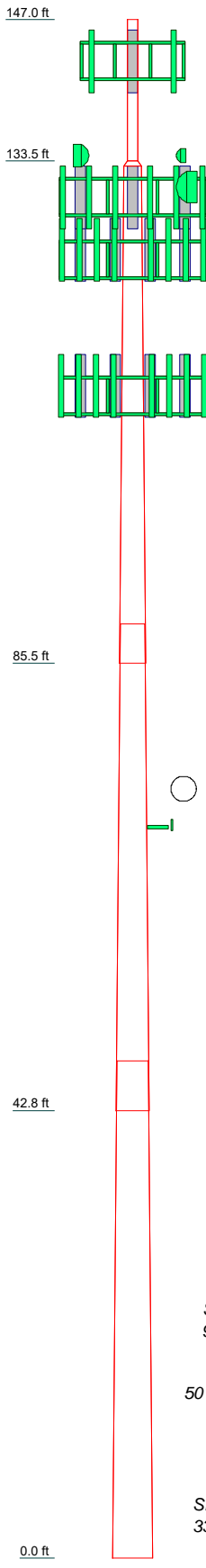
4.1) Recommendations

The tower and its foundations have sufficient capacity to carry the proposed load configuration. No modifications are required at this time.

APPENDIX A

TNXTOWER OUTPUT

Section	2	3	4	5	1
Length (ft)	0.500	47.500	46.500	47.500	13.500
Number of Sides	1	12	12	12	1
Thickness (in)	0.500	0.313	0.375	0.438	0.500
Socket Length (ft)		3.750	4.750	35.949	
Top Dia (in)		12.750	28.013	45.830	12.750
Bot Dia (in)		19.837	37.887		12.750
Grade		A53-B-35	A607-65		
Weight (K)	0.0	3.9	6.2	9.2	0.9



MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A53-B-35	35 ksi	63 ksi	A607-65	65 ksi	80 ksi

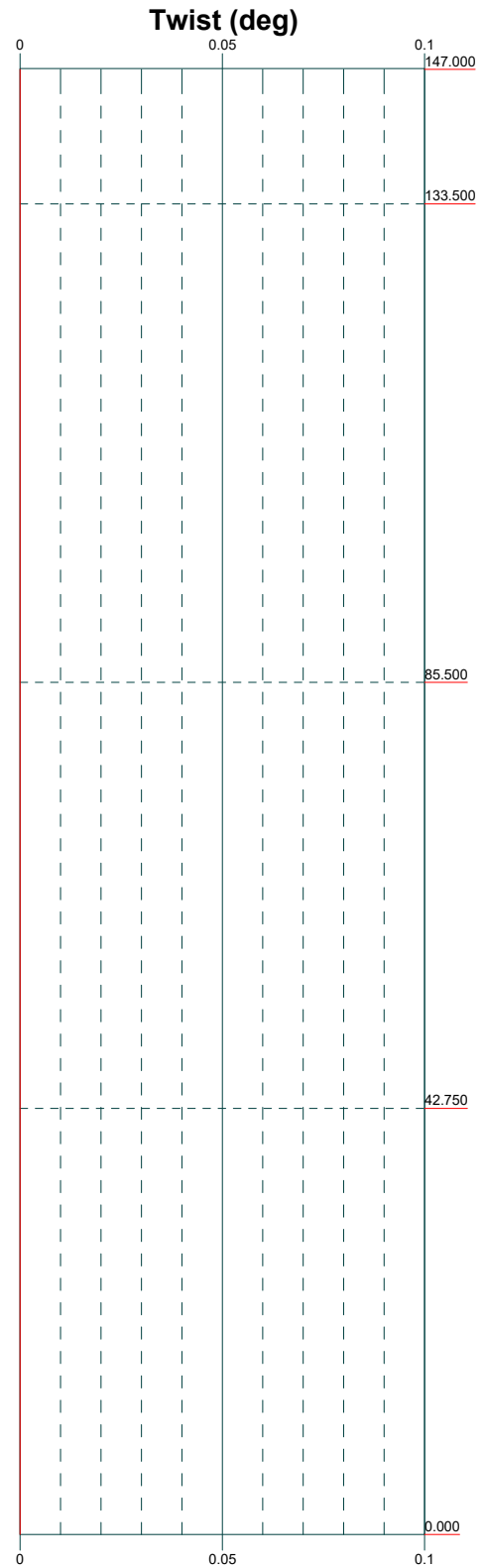
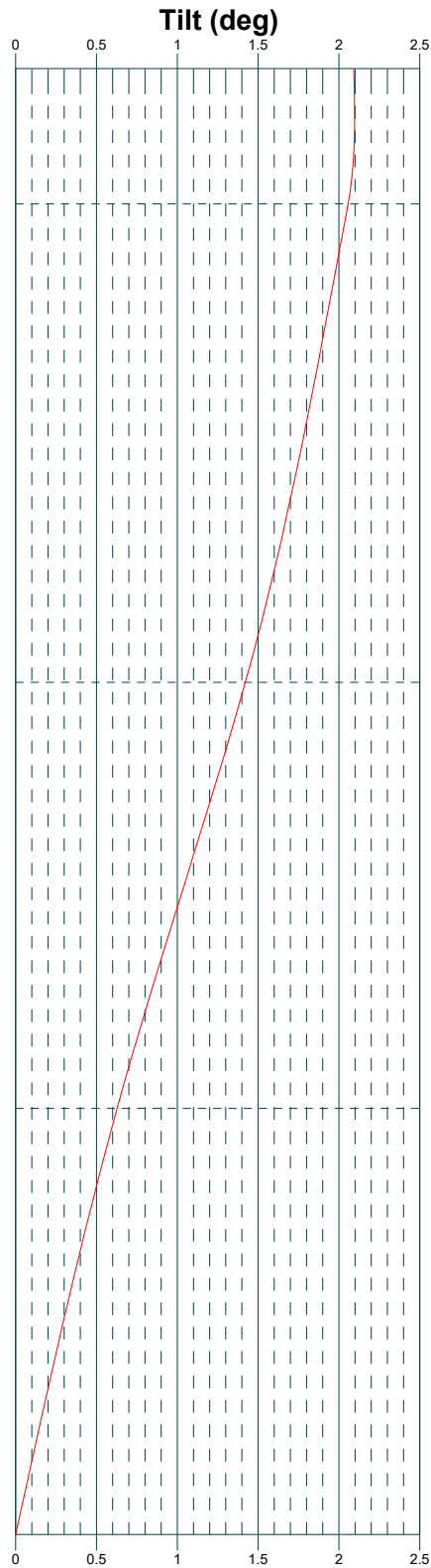
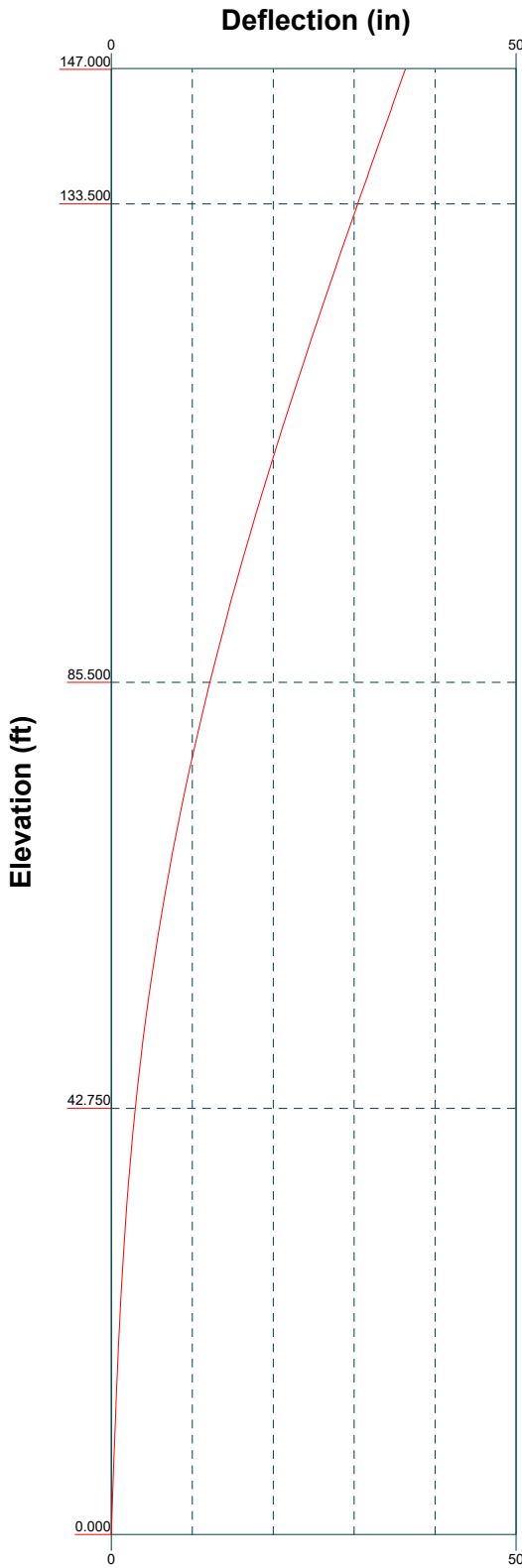
TOWER DESIGN NOTES

1. Tower is located in New Haven County, Connecticut.
2. Tower designed for Exposure C to the TIA-222-H Standard.
3. Tower designed for a 120 mph basic wind in accordance with the TIA-222-H Standard.
4. Tower is also designed for a 50 mph basic wind with 1.00 in ice. Ice is considered to increase in thickness with height.
5. Deflections are based upon a 60 mph wind.
6. Tower Risk Category II.
7. Topographic Category 1 with Crest Height of 0.000 ft
8. TIA-222-H Annex S
9. TOWER RATING: 90.1%

B+T Group
 1717 S. Boulder, Suite 300
 Tulsa, OK 74119
 Phone: (918) 587-4630
 FAX: (918) 295-0265

Job: 100049.005.01 - BEAUMONT FARM, CT (BU# 87631)		
Project:		
Client: Crown Castle	Drawn by: R AITHAL	App'd:
Code: TIA-222-H	Date: 01/18/22	Scale: NTS
Path:	Dwg No. E-1	

© USA 1/18/22 01-2022-100049 876310 Beaumont Farm - Rev 01 - 5/18/22 005 01/18/2022 005 01 BEAUMONT FARM.ct



B+T Group
 1717 S. Boulder, Suite 300
 Tulsa, OK 74119
 Phone: (918) 587-4630
 FAX: (918) 295-0265

Job: 100049.005.01 - BEAUMONT FARM, CT (BU# 87631)		
Project:		
Client: Crown Castle	Drawn by: R AITHAL	App'd:
Code: TIA-222-H	Date: 01/18/22	Scale: NTS
Path:		Dwg No. E-5

tnxTower B+T Group 1717 S. Boulder, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 295-0265	Job 100049.005.01 - BEAUMONT FARM, CT (BU# 876310)	Page 1 of 19
	Project	Date 19:13:25 01/18/22
	Client Crown Castle	Designed by R AITHAL

Tower Input Data

The tower is a monopole.

This tower is designed using the TIA-222-H standard.

The following design criteria apply:

- Tower is located in New Haven County, Connecticut.
- Tower base elevation above sea level: 244.000 ft.
- Basic wind speed of 120 mph.
- Risk Category II.
- Exposure Category C.
- Simplified Topographic Factor Procedure for wind speed-up calculations is used.
- Topographic Category: 1.
- Crest Height: 0.000 ft.
- Nominal ice thickness of 1.000 in.
- Ice thickness is considered to increase with height.
- Ice density of 56.000 pcf.
- A wind speed of 50 mph is used in combination with ice.
- Temperature drop of 50.000 °F.
- Deflections calculated using a wind speed of 60 mph.
- TIA-222-H Annex S.
- A non-linear (P-delta) analysis was used.
- Pressures are calculated at each section.
- Stress ratio used in pole design is 1.
- Tower analysis based on target reliabilities in accordance with Annex S.
- Load Modification Factors used: $K_{es}(F_w) = 0.95$, $K_{es}(t_i) = 0.85$.
- Maximum demand-capacity ratio is: 1.05.
- Local bending stresses due to climbing loads, feed line supports, and appurtenance mounts are not considered.

Options

- | | | |
|--|---|---|
| <ul style="list-style-type: none"> Consider Moments - Legs Consider Moments - Horizontals Consider Moments - Diagonals Use Moment Magnification √ Use Code Stress Ratios √ Use Code Safety Factors - Guys Escalate Ice Always Use Max Kz Use Special Wind Profile Include Bolts In Member Capacity Leg Bolts Are At Top Of Section Secondary Horizontal Braces Leg Use Diamond Inner Bracing (4 Sided) SR Members Have Cut Ends SR Members Are Concentric | <ul style="list-style-type: none"> Distribute Leg Loads As Uniform Assume Legs Pinned √ Assume Rigid Index Plate √ Use Clear Spans For Wind Area Use Clear Spans For KL/r Retension Guys To Initial Tension √ Bypass Mast Stability Checks √ Use Azimuth Dish Coefficients √ Project Wind Area of Appurt. Autocalc Torque Arm Areas Add IBC .6D+W Combination Sort Capacity Reports By Component Triangulate Diamond Inner Bracing Treat Feed Line Bundles As Cylinder Ignore KL/ry For 60 Deg. Angle Legs | <ul style="list-style-type: none"> Use ASCE 10 X-Brace Ly Rules Calculate Redundant Bracing Forces Ignore Redundant Members in FEA SR Leg Bolts Resist Compression All Leg Panels Have Same Allowable Offset Girt At Foundation √ Consider Feed Line Torque Include Angle Block Shear Check Use TIA-222-H Bracing Resist. Exemption Use TIA-222-H Tension Splice Exemption <li style="text-align: center;">Poles √ Include Shear-Torsion Interaction Always Use Sub-Critical Flow Use Top Mounted Sockets √ Pole Without Linear Attachments Pole With Shroud Or No Appurtenances Outside and Inside Corner Radii Are Known |
|--|---|---|

tnxTower B+T Group 1717 S. Boulder, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 295-0265	Job 100049.005.01 - BEAUMONT FARM, CT (BU# 876310)	Page 2 of 19
	Project	Date 19:13:25 01/18/22
	Client Crown Castle	Designed by R AITHAL

Tapered Pole Section Geometry

Section	Elevation ft	Section Length ft	Splice Length ft	Number of Sides	Top Diameter in	Bottom Diameter in	Wall Thickness in	Bend Radius in	Pole Grade
L1	147.000-133.500	13.500	0.000	Round	12.750	12.750	0.500		A53-B-35 (35 ksi)
L2	133.500-133.000	0.500	0.000	Round	12.750	19.537	0.500		A53-B-35 (35 ksi)
L3	133.000-85.500	47.500	3.750	12	19.537	29.418	0.313	1.250	A607-65 (65 ksi)
L4	85.500-42.750	46.500	4.750	12	28.013	37.687	0.375	1.500	A607-65 (65 ksi)
L5	42.750-0.000	47.500		12	35.949	45.830	0.438	1.750	A607-65 (65 ksi)

Tapered Pole Properties

Section	Tip Dia. in	Area in ²	I in ⁴	r in	C in	I/C in ³	J in ⁴	I ² /Q in ²	w in	w/t
L1	12.750	19.242	361.544	4.335	6.375	56.713	723.088	9.615	0.000	0
	12.750	19.242	361.544	4.335	6.375	56.713	723.088	9.615	0.000	0
L2	12.750	19.242	361.544	4.335	6.375	56.713	723.088	9.615	0.000	0
	19.537	29.903	1355.579	6.733	9.768	138.770	2711.158	14.943	0.000	0
L3	20.116	19.345	912.551	6.882	10.120	90.172	1849.075	9.521	4.398	14.075
	30.346	29.287	3166.774	10.420	15.239	207.814	6416.742	14.414	7.047	22.549
L4	29.677	33.373	3253.788	9.894	14.511	224.234	6593.056	16.425	6.502	17.34
	38.884	45.054	8006.057	13.358	19.522	410.107	16222.442	22.174	9.095	24.254
L5	38.086	50.027	8052.285	12.713	18.621	432.419	16316.113	24.622	8.462	19.341
	47.292	63.947	16817.916	16.251	23.740	708.423	34077.658	31.473	11.110	25.394

Tower Elevation ft	Gusset Area (per face) ft ²	Gusset Thickness in	Gusset Grade	Adjust. Factor A _f	Adjust. Factor A _r	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals in	Double Angle Stitch Bolt Spacing Horizontals in	Double Angle Stitch Bolt Spacing Redundants in
L1 147.000-133.500				1	1	1			
L2 133.500-133.000				1	1	1			
L3 133.000-85.500				1	1	1			
L4 85.500-42.750				1	1	1			
L5 42.750-0.000				1	1	1			

Feed Line/Linear Appurtenances - Entered As Round Or Flat

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	Client Crown Castle	Designed by R AITHAL

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Total Number	Number Per Row	Clear Spacing in	Width or Diameter in	Perimeter in	Weight klf
*											

Feed Line/Linear Appurtenances - Entered As Area

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Total Number		C _A A _A ft ² /ft	Weight klf
*									
CUI2PSM9P6XXX(1-1/2)	B	No	No	Inside Pole	143.000 - 0.000	1	No Ice 1/2" Ice 1" Ice	0.000 0.000 0.000	0.002 0.002 0.002
*									
7983A(ELLIPTICAL)	A	No	No	Inside Pole	130.000 - 0.000	3	No Ice 1/2" Ice 1" Ice	0.000 0.000 0.000	0.000 0.000 0.000
9207(5/16)	A	No	No	Inside Pole	130.000 - 0.000	6	No Ice 1/2" Ice 1" Ice	0.000 0.000 0.000	0.001 0.001 0.001
HB114-08U3M12-XXF(7/8)	A	No	No	Inside Pole	130.000 - 0.000	1	No Ice 1/2" Ice 1" Ice	0.000 0.000 0.000	0.001 0.001 0.001
HB114-1-0813U4-M5J(1-1/4)	A	No	No	Inside Pole	130.000 - 0.000	3	No Ice 1/2" Ice 1" Ice	0.000 0.000 0.000	0.001 0.001 0.001
2" Rigid Conduit	A	No	No	Inside Pole	130.000 - 0.000	1	No Ice 1/2" Ice 1" Ice	0.000 0.000 0.000	0.003 0.003 0.003
*									
FLC 158-50J(1-5/8)	A	No	No	Inside Pole	124.000 - 0.000	12	No Ice 1/2" Ice 1" Ice	0.000 0.000 0.000	0.001 0.001 0.001
HB158-1-08U8-S8J18(1-5/8)	A	No	No	Inside Pole	124.000 - 0.000	2	No Ice 1/2" Ice 1" Ice	0.000 0.000 0.000	0.001 0.001 0.001
*									
LDF6-50A(1-1/4)	A	No	No	Inside Pole	111.000 - 0.000	6	No Ice 1/2" Ice 1" Ice	0.000 0.000 0.000	0.001 0.001 0.001
PWRT-606-S(7/8)	A	No	No	Inside Pole	111.000 - 0.000	3	No Ice 1/2" Ice 1" Ice	0.000 0.000 0.000	0.001 0.001 0.001
PWRT-608-S(13/16)	A	No	No	Inside Pole	111.000 - 0.000	4	No Ice 1/2" Ice 1" Ice	0.000 0.000 0.000	0.001 0.001 0.001
FB-L98B-034-XXX(3/8)	A	No	No	Inside Pole	111.000 - 0.000	2	No Ice 1/2" Ice 1" Ice	0.000 0.000 0.000	0.000 0.000 0.000
FB-L98B-235-XXX(3/8)	A	No	No	Inside Pole	111.000 - 0.000	1	No Ice 1/2" Ice 1" Ice	0.000 0.000 0.000	0.000 0.000 0.000
*									
LDF4-50A(1/2)	C	No	No	Inside Pole	70.000 - 0.000	1	No Ice 1/2" Ice 1" Ice	0.000 0.000 0.000	0.000 0.000 0.000
*									
Safety Line 3/8	A	No	No	CaAa (Out	147.000 - 0.000	1	No Ice	0.037	0.000

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Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Total Number	C _{AA} ft ² /ft	Weight klf
				Of Face)		1/2" Ice	0.137	0.001
						1" Ice	0.238	0.001
*								

Feed Line/Linear Appurtenances Section Areas

Tower Section	Tower Elevation ft	Face	A _R ft ²	A _F ft ²	C _{AA} In Face ft ²	C _{AA} Out Face ft ²	Weight K
L1	147.000-133.500	A	0.000	0.000	0.000	0.506	0.003
		B	0.000	0.000	0.000	0.000	0.022
		C	0.000	0.000	0.000	0.000	0.000
L2	133.500-133.000	A	0.000	0.000	0.000	0.019	0.000
		B	0.000	0.000	0.000	0.000	0.001
		C	0.000	0.000	0.000	0.000	0.000
L3	133.000-85.500	A	0.000	0.000	0.000	1.781	1.250
		B	0.000	0.000	0.000	0.000	0.112
		C	0.000	0.000	0.000	0.000	0.000
L4	85.500-42.750	A	0.000	0.000	0.000	1.603	1.441
		B	0.000	0.000	0.000	0.000	0.100
		C	0.000	0.000	0.000	0.000	0.004
L5	42.750-0.000	A	0.000	0.000	0.000	1.603	1.441
		B	0.000	0.000	0.000	0.000	0.100
		C	0.000	0.000	0.000	0.000	0.006

Feed Line/Linear Appurtenances Section Areas - With Ice

Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A _R ft ²	A _F ft ²	C _{AA} In Face ft ²	C _{AA} Out Face ft ²	Weight K
L1	147.000-133.500	A	0.982	0.000	0.000	0.000	3.159	0.017
		B		0.000	0.000	0.000	0.000	0.022
		C		0.000	0.000	0.000	0.000	0.000
L2	133.500-133.000	A	0.977	0.000	0.000	0.000	0.116	0.001
		B		0.000	0.000	0.000	0.000	0.001
		C		0.000	0.000	0.000	0.000	0.000
L3	133.000-85.500	A	0.957	0.000	0.000	0.000	10.872	1.298
		B		0.000	0.000	0.000	0.000	0.112
		C		0.000	0.000	0.000	0.000	0.000
L4	85.500-42.750	A	0.908	0.000	0.000	0.000	9.785	1.485
		B		0.000	0.000	0.000	0.000	0.100
		C		0.000	0.000	0.000	0.000	0.004
L5	42.750-0.000	A	0.814	0.000	0.000	0.000	9.363	1.483
		B		0.000	0.000	0.000	0.000	0.100
		C		0.000	0.000	0.000	0.000	0.006

Feed Line Center of Pressure

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Section	Elevation	CP _x	CP _z	CP _x	CP _z
	ft	in	in	Ice in	Ice in
L1	147.000-133.500	0.000	-0.464	0.000	-0.942
L2	133.500-133.000	0.000	-0.471	0.000	-0.994
L3	133.000-85.500	0.000	-0.252	0.000	-0.952
L4	85.500-42.750	0.000	-0.253	0.000	-0.991
L5	42.750-0.000	0.000	-0.253	0.000	-0.974

Note: For pole sections, center of pressure calculations do not consider feed line shielding.

Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft	C _{AA} Front ft ²	C _{AA} Side ft ²	Weight K	
*									
MX08FRO665-21 w/ Mount Pipe	A	From Leg	4.000 0.000 0.000	0.000	143.000	No Ice 8.010 1/2" Ice 8.520 1" Ice 9.040	4.230 4.690 5.160	0.108 0.194 0.292	
MX08FRO665-21 w/ Mount Pipe	B	From Leg	4.000 0.000 0.000	0.000	143.000	No Ice 8.010 1/2" Ice 8.520 1" Ice 9.040	4.230 4.690 5.160	0.108 0.194 0.292	
MX08FRO665-21 w/ Mount Pipe	C	From Leg	4.000 0.000 0.000	0.000	143.000	No Ice 8.010 1/2" Ice 8.520 1" Ice 9.040	4.230 4.690 5.160	0.108 0.194 0.292	
TA08025-B604	A	From Leg	4.000 0.000 0.000	0.000	143.000	No Ice 1.964 1/2" Ice 2.138 1" Ice 2.320	0.981 1.112 1.250	0.064 0.081 0.100	
TA08025-B604	B	From Leg	4.000 0.000 0.000	0.000	143.000	No Ice 1.964 1/2" Ice 2.138 1" Ice 2.320	0.981 1.112 1.250	0.064 0.081 0.100	
TA08025-B604	C	From Leg	4.000 0.000 0.000	0.000	143.000	No Ice 1.964 1/2" Ice 2.138 1" Ice 2.320	0.981 1.112 1.250	0.064 0.081 0.100	
TA08025-B605	A	From Leg	4.000 0.000 0.000	0.000	143.000	No Ice 1.964 1/2" Ice 2.138 1" Ice 2.320	1.129 1.267 1.411	0.075 0.093 0.114	
TA08025-B605	B	From Leg	4.000 0.000 0.000	0.000	143.000	No Ice 1.964 1/2" Ice 2.138 1" Ice 2.320	1.129 1.267 1.411	0.075 0.093 0.114	
TA08025-B605	C	From Leg	4.000 0.000 0.000	0.000	143.000	No Ice 1.964 1/2" Ice 2.138 1" Ice 2.320	1.129 1.267 1.411	0.075 0.093 0.114	
RDIDC-9181-PF-48	A	From Leg	4.000 0.000 0.000	0.000	143.000	No Ice 2.012 1/2" Ice 2.189 1" Ice 2.373	1.168 1.311 1.461	0.022 0.040 0.060	
(2) 8' x 2" Mount Pipe	A	From Leg	4.000 0.000 0.000	0.000	143.000	No Ice 1.900 1/2" Ice 2.728 1" Ice 3.401	1.900 2.728 3.401	0.029 0.044 0.063	
(2) 8' x 2" Mount Pipe	B	From Leg	4.000 0.000 0.000	0.000	143.000	No Ice 1.900 1/2" Ice 2.728 1" Ice 3.401	1.900 2.728 3.401	0.029 0.044 0.063	

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	Client		Crown Castle		Designed by		R AITHAL	

Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	C _{AA} Front	C _{AA} Side	Weight
			Horz	Vert					
			ft	ft	°	ft	ft ²	ft ²	K
(2) 8' x 2" Mount Pipe	C	From Leg	4.000	0.000	0.000	143.000	No Ice 1.900	1.900	0.029
			0.000				1/2" Ice 2.728	2.728	0.044
			0.000				1" Ice 3.401	3.401	0.063
Commscope_MC-PK8-DSH	C	None			0.000	143.000	No Ice 34.240	34.240	1.749
							1/2" Ice 62.950	62.950	2.099
							1" Ice 91.660	91.660	2.450
*									
LLPX310R-V1 w/ Mount Pipe	A	From Leg	4.000	0.000	0.000	130.000	No Ice 3.880	2.360	0.057
			0.000				1/2" Ice 4.290	2.730	0.091
			0.000				1" Ice 4.720	3.120	0.133
LLPX310R-V1 w/ Mount Pipe	B	From Leg	4.000	0.000	0.000	130.000	No Ice 3.880	2.360	0.057
			0.000				1/2" Ice 4.290	2.730	0.091
			0.000				1" Ice 4.720	3.120	0.133
LLPX310R-V1 w/ Mount Pipe	C	From Leg	4.000	0.000	0.000	130.000	No Ice 3.880	2.360	0.057
			0.000				1/2" Ice 4.290	2.730	0.091
			0.000				1" Ice 4.720	3.120	0.133
RRH-2WB	A	From Leg	4.000	0.000	0.000	130.000	No Ice 2.305	0.783	0.044
			0.000				1/2" Ice 2.496	0.917	0.059
			0.000				1" Ice 2.695	1.058	0.077
RRH-2WB	B	From Leg	4.000	0.000	0.000	130.000	No Ice 2.305	0.783	0.044
			0.000				1/2" Ice 2.496	0.917	0.059
			0.000				1" Ice 2.695	1.058	0.077
RRH-2WB	C	From Leg	4.000	0.000	0.000	130.000	No Ice 2.305	0.783	0.044
			0.000				1/2" Ice 2.496	0.917	0.059
			0.000				1" Ice 2.695	1.058	0.077
*									
*									
APXVTM14-C-120 w/ Mount Pipe	A	From Leg	4.000	0.000	0.000	130.000	No Ice 4.090	2.860	0.077
			0.000				1/2" Ice 4.480	3.230	0.127
			0.000				1" Ice 4.880	3.610	0.185
APXVTM14-C-120 w/ Mount Pipe	B	From Leg	4.000	0.000	0.000	130.000	No Ice 4.090	2.860	0.077
			0.000				1/2" Ice 4.480	3.230	0.127
			0.000				1" Ice 4.880	3.610	0.185
APXVTM14-C-120 w/ Mount Pipe	C	From Leg	4.000	0.000	0.000	130.000	No Ice 4.090	2.860	0.077
			0.000				1/2" Ice 4.480	3.230	0.127
			0.000				1" Ice 4.880	3.610	0.185
APXVSP18-C-A20 w/ Mount Pipe	A	From Leg	4.000	0.000	0.000	130.000	No Ice 4.600	4.010	0.095
			0.000				1/2" Ice 5.050	4.450	0.160
			0.000				1" Ice 5.500	4.890	0.235
APXVSP18-C-A20 w/ Mount Pipe	B	From Leg	4.000	0.000	0.000	130.000	No Ice 4.600	4.010	0.095
			0.000				1/2" Ice 5.050	4.450	0.160
			0.000				1" Ice 5.500	4.890	0.235
APXV9ERR18-C-A20 w/ Mount Pipe	C	From Leg	4.000	0.000	0.000	130.000	No Ice 4.600	4.010	0.095
			0.000				1/2" Ice 5.050	4.450	0.160
			0.000				1" Ice 5.500	4.890	0.235
TD-RRH8X20-25	A	From Leg	4.000	0.000	0.000	130.000	No Ice 4.045	1.535	0.070
			0.000				1/2" Ice 4.298	1.714	0.097
			0.000				1" Ice 4.557	1.901	0.128
TD-RRH8X20-25	B	From Leg	4.000	0.000	0.000	130.000	No Ice 4.045	1.535	0.070
			0.000				1/2" Ice 4.298	1.714	0.097
			0.000				1" Ice 4.557	1.901	0.128
TD-RRH8X20-25	C	From Leg	4.000	0.000	0.000	130.000	No Ice 4.045	1.535	0.070
			0.000				1/2" Ice 4.298	1.714	0.097
			0.000				1" Ice 4.557	1.901	0.128
1900MHZ RRH (65MHZ)	A	From Leg	4.000	0.000	0.000	130.000	No Ice 2.313	2.375	0.060
			0.000				1/2" Ice 2.517	2.581	0.084
			0.000				1" Ice 2.728	2.794	0.111

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	Client	Crown Castle		Designed by

Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	C _{AA} Front	C _{AA} Side	Weight
			Horz	Lateral					
1900MHZ RRH (65MHZ)	B	From Leg	4.000	0.000	0.000	130.000	No Ice 2.313	2.375	0.060
			0.000				1/2" Ice 2.517	2.581	0.084
			0.000				1" Ice 2.728	2.794	0.111
1900MHZ RRH (65MHZ)	C	From Leg	4.000	0.000	0.000	130.000	No Ice 2.313	2.375	0.060
			0.000				1/2" Ice 2.517	2.581	0.084
			0.000				1" Ice 2.728	2.794	0.111
800 EXTERNAL NOTCH FILTER	A	From Leg	4.000	0.000	0.000	130.000	No Ice 0.660	0.321	0.011
			0.000				1/2" Ice 0.763	0.398	0.017
			0.000				1" Ice 0.873	0.483	0.024
800 EXTERNAL NOTCH FILTER	B	From Leg	4.000	0.000	0.000	130.000	No Ice 0.660	0.321	0.011
			0.000				1/2" Ice 0.763	0.398	0.017
			0.000				1" Ice 0.873	0.483	0.024
800 EXTERNAL NOTCH FILTER	C	From Leg	4.000	0.000	0.000	130.000	No Ice 0.660	0.321	0.011
			0.000				1/2" Ice 0.763	0.398	0.017
			0.000				1" Ice 0.873	0.483	0.024
(3) ACU-A20-N	A	From Leg	4.000	0.000	0.000	130.000	No Ice 0.067	0.117	0.001
			0.000				1/2" Ice 0.104	0.162	0.002
			0.000				1" Ice 0.148	0.215	0.004
(3) ACU-A20-N	B	From Leg	4.000	0.000	0.000	130.000	No Ice 0.067	0.117	0.001
			0.000				1/2" Ice 0.104	0.162	0.002
			0.000				1" Ice 0.148	0.215	0.004
(3) ACU-A20-N	C	From Leg	4.000	0.000	0.000	130.000	No Ice 0.067	0.117	0.001
			0.000				1/2" Ice 0.104	0.162	0.002
			0.000				1" Ice 0.148	0.215	0.004
800MHZ RRH	A	From Leg	4.000	0.000	0.000	130.000	No Ice 2.134	1.773	0.053
			0.000				1/2" Ice 2.320	1.946	0.074
			0.000				1" Ice 2.512	2.127	0.098
800MHZ RRH	B	From Leg	4.000	0.000	0.000	130.000	No Ice 2.134	1.773	0.053
			0.000				1/2" Ice 2.320	1.946	0.074
			0.000				1" Ice 2.512	2.127	0.098
800MHZ RRH	C	From Leg	4.000	0.000	0.000	130.000	No Ice 2.134	1.773	0.053
			0.000				1/2" Ice 2.320	1.946	0.074
			0.000				1" Ice 2.512	2.127	0.098
(2) 6' x 2" Mount Pipe	A	From Leg	4.000	0.000	0.000	130.000	No Ice 1.425	1.425	0.022
			0.000				1/2" Ice 1.925	1.925	0.033
			0.000				1" Ice 2.294	2.294	0.048
(2) 6' x 2" Mount Pipe	B	From Leg	4.000	0.000	0.000	130.000	No Ice 1.425	1.425	0.022
			0.000				1/2" Ice 1.925	1.925	0.033
			0.000				1" Ice 2.294	2.294	0.048
(2) 6' x 2" Mount Pipe	C	From Leg	4.000	0.000	0.000	130.000	No Ice 1.425	1.425	0.022
			0.000				1/2" Ice 1.925	1.925	0.033
			0.000				1" Ice 2.294	2.294	0.048
Platform Mount [LP 1201-1_HR-1]	C	None		0.000	0.000	130.000	No Ice 26.390	26.390	2.356
							1/2" Ice 31.400	31.400	3.061
							1" Ice 36.200	36.200	3.864
*									
(2) LPA-80080-6CF-EDIN w/ Mount Pipe	A	From Leg	4.000	0.000	0.000	124.000	No Ice 4.560	10.269	0.046
			0.000				1/2" Ice 5.102	11.439	0.113
			0.000				1" Ice 5.608	12.323	0.187
(2) LPA-80080-6CF-EDIN w/ Mount Pipe	B	From Leg	4.000	0.000	0.000	124.000	No Ice 4.560	10.269	0.046
			0.000				1/2" Ice 5.102	11.439	0.113
			0.000				1" Ice 5.608	12.323	0.187
BXA-70063/6CFX2 w/ Mount Pipe	A	From Leg	4.000	0.000	0.000	124.000	No Ice 7.806	5.398	0.042
			0.000				1/2" Ice 8.357	6.546	0.101
			0.000				1" Ice 8.872	7.409	0.168
BXA-70063/6CFX2 w/ Mount Pipe	B	From Leg	4.000	0.000	0.000	124.000	No Ice 7.806	5.398	0.042
			0.000				1/2" Ice 8.357	6.546	0.101

Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	C _{AA} Front	C _{AA} Side	Weight	
			Horz	Vert						
			ft	ft	°	ft	ft ²	ft ²	K	
SBNHH-1D65B w/ Mount Pipe	A	From Leg	0.000		0.000	124.000	1" Ice	8.872	7.409	0.168
			4.000				No Ice	4.090	3.300	0.066
			0.000				1/2" Ice	4.490	3.680	0.130
			1.000				1" Ice	4.890	4.070	0.204
SBNHH-1D65B w/ Mount Pipe	B	From Leg	4.000		0.000	124.000	No Ice	4.090	3.300	0.066
			0.000				1/2" Ice	4.490	3.680	0.130
			1.000				1" Ice	4.890	4.070	0.204
			4.000				No Ice	4.090	3.300	0.066
SBNHH-1D65B w/ Mount Pipe	C	From Leg	0.000		0.000	124.000	1/2" Ice	4.490	3.680	0.130
			1.000				1" Ice	4.890	4.070	0.204
			4.000				No Ice	4.090	3.300	0.066
			0.000				1/2" Ice	4.490	3.680	0.130
SBNHH-1D65B	A	From Leg	1.000		0.000	124.000	1" Ice	4.890	4.070	0.204
			4.000				No Ice	4.160	2.490	0.041
			0.000				1/2" Ice	4.570	2.880	0.091
			1.000				1" Ice	4.990	3.270	0.148
SBNHH-1D65B	B	From Leg	4.000		0.000	124.000	No Ice	4.160	2.490	0.041
			0.000				1/2" Ice	4.570	2.880	0.091
			1.000				1" Ice	4.990	3.270	0.148
			4.000				No Ice	4.160	2.490	0.041
SBNHH-1D65B	C	From Leg	0.000		0.000	124.000	1/2" Ice	4.570	2.880	0.091
			1.000				1" Ice	4.990	3.270	0.148
			4.000				No Ice	4.160	2.490	0.041
			0.000				1/2" Ice	4.570	2.880	0.091
(2) LPA-80063/6CF w/ Mount Pipe	C	From Leg	4.000		0.000	124.000	No Ice	9.831	10.215	0.052
			0.000				1/2" Ice	10.400	11.384	0.145
			0.000				1" Ice	10.933	12.269	0.246
			4.000				No Ice	7.806	5.398	0.042
BXA-70063/6CFX4 w/ Mount Pipe	C	From Leg	0.000		0.000	124.000	1/2" Ice	8.357	6.546	0.101
			0.000				1" Ice	8.872	7.409	0.168
			4.000				No Ice	2.537	1.610	0.057
			0.000				1/2" Ice	2.750	1.791	0.077
B66A RRH4X45 (UHIE)	A	From Leg	0.000		0.000	124.000	1" Ice	2.970	1.978	0.100
			4.000				No Ice	2.537	1.610	0.057
			0.000				1/2" Ice	2.750	1.791	0.077
			0.000				1" Ice	2.970	1.978	0.100
B66A RRH4X45 (UHIE)	B	From Leg	4.000		0.000	124.000	No Ice	2.537	1.610	0.057
			0.000				1/2" Ice	2.750	1.791	0.077
			0.000				1" Ice	2.970	1.978	0.100
			4.000				No Ice	2.537	1.610	0.057
B66A RRH4X45 (UHIE)	C	From Leg	0.000		0.000	124.000	1/2" Ice	2.750	1.791	0.077
			0.000				1" Ice	2.970	1.978	0.100
			4.000				No Ice	2.537	1.610	0.057
			0.000				1/2" Ice	2.750	1.791	0.077
B13 RRH 4X30	A	From Leg	4.000		0.000	124.000	No Ice	2.055	1.320	0.056
			0.000				1/2" Ice	2.241	1.475	0.073
			0.000				1" Ice	2.433	1.638	0.093
			4.000				No Ice	2.055	1.320	0.056
B13 RRH 4X30	B	From Leg	0.000		0.000	124.000	1/2" Ice	2.241	1.475	0.073
			0.000				1" Ice	2.433	1.638	0.093
			4.000				No Ice	2.055	1.320	0.056
			0.000				1/2" Ice	2.241	1.475	0.073
B13 RRH 4X30	C	From Leg	4.000		0.000	124.000	No Ice	2.055	1.320	0.056
			0.000				1/2" Ice	2.241	1.475	0.073
			0.000				1" Ice	2.433	1.638	0.093
			4.000				No Ice	2.055	1.320	0.056
(2) FD9R6004/2C-3L	A	From Leg	4.000		0.000	124.000	No Ice	0.314	0.076	0.003
			0.000				1/2" Ice	0.386	0.119	0.005
			0.000				1" Ice	0.466	0.169	0.009
			4.000				No Ice	0.314	0.076	0.003
(2) FD9R6004/2C-3L	B	From Leg	0.000		0.000	124.000	1/2" Ice	0.386	0.119	0.005
			0.000				1" Ice	0.466	0.169	0.009
			4.000				No Ice	0.314	0.076	0.003
			0.000				1/2" Ice	0.386	0.119	0.005
(2) FD9R6004/2C-3L	C	From Leg	0.000		0.000	124.000	1" Ice	0.466	0.169	0.009
			4.000				No Ice	0.314	0.076	0.003
			0.000				1/2" Ice	0.386	0.119	0.005
			0.000				1" Ice	0.466	0.169	0.009
B25 RRH4X30 (UHFA)	A	From Leg	4.000		0.000	124.000	No Ice	2.115	1.290	0.053
			0.000				1/2" Ice	2.303	1.445	0.070
			0.000				1" Ice	2.498	1.607	0.090
			4.000				No Ice	2.115	1.290	0.053
B25 RRH4X30 (UHFA)	B	From Leg	0.000		0.000	124.000	1/2" Ice	2.303	1.445	0.070
			4.000				No Ice	2.115	1.290	0.053

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Description	Face or Leg								
<i>ft</i>									
B25 RRH4X30 (UHFA)	C	From Leg	0.000			1" Ice	2.498	1.607	0.090
			4.000	0.000	124.000	No Ice	2.115	1.290	0.053
			0.000			1/2" Ice	2.303	1.445	0.070
			0.000			1" Ice	2.498	1.607	0.090
RRFDC-3315-PF-48	A	From Leg	4.000	0.000	124.000	No Ice	3.364	2.192	0.021
			0.000			1/2" Ice	3.597	2.395	0.050
			0.000			1" Ice	3.838	2.606	0.082
			4.000	0.000	124.000	No Ice	3.364	2.192	0.021
RRFDC-3315-PF-48	C	From Leg	0.000			1/2" Ice	3.597	2.395	0.050
			0.000			1" Ice	3.838	2.606	0.082
			4.000	0.000	124.000	No Ice	3.364	2.192	0.021
			0.000			1/2" Ice	3.597	2.395	0.050
6' x 2" Mount Pipe	A	From Leg	4.000	0.000	124.000	No Ice	1.425	1.425	0.022
			0.000			1/2" Ice	1.925	1.925	0.033
			0.000			1" Ice	2.294	2.294	0.048
			4.000	0.000	124.000	No Ice	1.425	1.425	0.022
6' x 2" Mount Pipe	B	From Leg	0.000			1/2" Ice	1.925	1.925	0.033
			0.000			1" Ice	2.294	2.294	0.048
			4.000	0.000	124.000	No Ice	1.425	1.425	0.022
			0.000			1/2" Ice	1.925	1.925	0.033
6' x 2" Mount Pipe	C	From Leg	0.000			1" Ice	2.294	2.294	0.048
			4.000	0.000	124.000	No Ice	1.425	1.425	0.022
			0.000			1/2" Ice	1.925	1.925	0.033
			0.000			1" Ice	2.294	2.294	0.048
Platform Mount [LP 1201-1_KCKR-HR-1]	C	None	0.000	0.000	124.000	No Ice	37.610	37.610	2.631
						1/2" Ice	45.620	45.620	3.478
						1" Ice	53.590	53.590	4.462
*									
*									
(2) DC6-48-60-18-8F	A	From Leg	4.000	0.000	111.000	No Ice	1.212	1.212	0.033
			0.000			1/2" Ice	1.892	1.892	0.055
			1.000			1" Ice	2.105	2.105	0.080
			4.000	0.000	111.000	No Ice	1.644	0.725	0.048
RRUS 4426 B66	A	From Leg	0.000			1/2" Ice	1.804	0.842	0.061
			1.000			1" Ice	1.972	0.969	0.076
			4.000	0.000	111.000	No Ice	1.644	0.725	0.048
			0.000			1/2" Ice	1.804	0.842	0.061
RRUS 4426 B66	B	From Leg	1.000			1" Ice	1.972	0.969	0.076
			4.000	0.000	111.000	No Ice	1.644	0.725	0.048
			0.000			1/2" Ice	1.804	0.842	0.061
			1.000			1" Ice	1.972	0.969	0.076
RRUS 4426 B66	C	From Leg	4.000	0.000	111.000	No Ice	1.644	0.725	0.048
			0.000			1/2" Ice	1.804	0.842	0.061
			1.000			1" Ice	1.972	0.969	0.076
			4.000	0.000	111.000	No Ice	1.644	0.725	0.048
RRUS 32 B30	A	From Leg	0.000			1/2" Ice	1.804	0.842	0.061
			1.000			1" Ice	1.972	0.969	0.076
			4.000	0.000	111.000	No Ice	2.692	1.573	0.060
			0.000			1/2" Ice	2.912	1.756	0.080
RRUS 32 B30	B	From Leg	1.000			1" Ice	3.138	1.945	0.104
			4.000	0.000	111.000	No Ice	2.692	1.573	0.060
			0.000			1/2" Ice	2.912	1.756	0.080
			1.000			1" Ice	3.138	1.945	0.104
RRUS 32 B30	C	From Leg	4.000	0.000	111.000	No Ice	2.692	1.573	0.060
			0.000			1/2" Ice	2.912	1.756	0.080
			1.000			1" Ice	3.138	1.945	0.104
			4.000	0.000	111.000	No Ice	11.960	5.970	0.115
DMP65R-BU6D w/ Mount Pipe	A	From Leg	0.000			1/2" Ice	12.700	6.630	0.201
			1.000			1" Ice	13.460	7.300	0.298
			4.000	0.000	111.000	No Ice	11.960	5.970	0.115
			0.000			1/2" Ice	12.700	6.630	0.201
DMP65R-BU6D w/ Mount Pipe	B	From Leg	1.000			1" Ice	13.460	7.300	0.298
			4.000	0.000	111.000	No Ice	11.960	5.970	0.115
			0.000			1/2" Ice	12.700	6.630	0.201
			1.000			1" Ice	13.460	7.300	0.298
DMP65R-BU6D w/ Mount Pipe	C	From Leg	4.000	0.000	111.000	No Ice	11.960	5.970	0.115
			0.000			1/2" Ice	12.700	6.630	0.201
			1.000			1" Ice	13.460	7.300	0.298
			4.000	0.000	111.000	No Ice	11.960	5.970	0.094
TPA65R-BU6D_CCIV2 w/ Mount Pipe	A	From Leg	0.000			1/2" Ice	12.700	6.630	0.181
			1.000			1" Ice	13.460	7.300	0.278
			4.000	0.000	111.000	No Ice	11.960	5.970	0.094
			0.000			1/2" Ice	12.700	6.630	0.181
			1.000			1" Ice	13.460	7.300	0.278

tnxTower B+T Group 1717 S. Boulder, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 295-0265	Job		100049.005.01 - BEAUMONT FARM, CT (BU# 876310)		Page		10 of 19	
	Project				Date		19:13:25 01/18/22	
	Client		Crown Castle		Designed by		R AITHAL	

Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	C _{AA} Front	C _{AA} Side	Weight
			Horz	Lateral					
TPA65R-BU6D_CCIV2 w/ Mount Pipe	B	From Leg	4.000	0.000	111.000	No Ice	11.960	5.970	0.094
			0.000			1/2" Ice	12.700	6.630	0.181
			1.000			1" Ice	13.460	7.300	0.278
TPA65R-BU6D_CCIV2 w/ Mount Pipe	C	From Leg	4.000	0.000	111.000	No Ice	11.960	5.970	0.094
			0.000			1/2" Ice	12.700	6.630	0.181
			1.000			1" Ice	13.460	7.300	0.278
AIR 6419 B77G_CCIV2	A	From Leg	4.000	0.000	111.000	No Ice	3.797	1.938	0.066
			0.000			1/2" Ice	4.047	2.135	0.094
			3.000			1" Ice	4.305	2.340	0.125
AIR 6419 B77G_CCIV2	B	From Leg	4.000	0.000	111.000	No Ice	3.797	1.938	0.066
			0.000			1/2" Ice	4.047	2.135	0.094
			3.000			1" Ice	4.305	2.340	0.125
AIR 6419 B77G_CCIV2	C	From Leg	4.000	0.000	111.000	No Ice	3.797	1.938	0.066
			0.000			1/2" Ice	4.047	2.135	0.094
			3.000			1" Ice	4.305	2.340	0.125
AIR 6449 B77D	A	From Leg	4.000	0.000	111.000	No Ice	3.640	1.720	0.082
			0.000			1/2" Ice	4.000	2.020	0.111
			-1.000			1" Ice	4.370	2.330	0.145
AIR 6449 B77D	B	From Leg	4.000	0.000	111.000	No Ice	3.640	1.720	0.082
			0.000			1/2" Ice	4.000	2.020	0.111
			-1.000			1" Ice	4.370	2.330	0.145
AIR 6449 B77D	C	From Leg	4.000	0.000	111.000	No Ice	3.640	1.720	0.082
			0.000			1/2" Ice	4.000	2.020	0.111
			-1.000			1" Ice	4.370	2.330	0.145
RRUS 4415 B25_CCIV2	A	From Leg	4.000	0.000	111.000	No Ice	1.843	0.820	0.046
			0.000			1/2" Ice	2.012	0.943	0.060
			1.000			1" Ice	2.190	1.075	0.077
RRUS 4415 B25_CCIV2	B	From Leg	4.000	0.000	111.000	No Ice	1.843	0.820	0.046
			0.000			1/2" Ice	2.012	0.943	0.060
			1.000			1" Ice	2.190	1.075	0.077
RRUS 4415 B25_CCIV2	C	From Leg	4.000	0.000	111.000	No Ice	1.843	0.820	0.046
			0.000			1/2" Ice	2.012	0.943	0.060
			1.000			1" Ice	2.190	1.075	0.077
RRUS 4449 B5/B12	A	From Leg	4.000	0.000	111.000	No Ice	1.968	1.408	0.071
			0.000			1/2" Ice	2.144	1.564	0.090
			1.000			1" Ice	2.328	1.727	0.111
RRUS 4449 B5/B12	B	From Leg	4.000	0.000	111.000	No Ice	1.968	1.408	0.071
			0.000			1/2" Ice	2.144	1.564	0.090
			1.000			1" Ice	2.328	1.727	0.111
RRUS 4449 B5/B12	C	From Leg	4.000	0.000	111.000	No Ice	1.968	1.408	0.071
			0.000			1/2" Ice	2.144	1.564	0.090
			1.000			1" Ice	2.328	1.727	0.111
RRUS 4478 B14_CCIV2	A	From Leg	4.000	0.000	111.000	No Ice	2.021	1.246	0.059
			0.000			1/2" Ice	2.200	1.396	0.077
			1.000			1" Ice	2.386	1.554	0.097
RRUS 4478 B14_CCIV2	B	From Leg	4.000	0.000	111.000	No Ice	2.021	1.246	0.059
			0.000			1/2" Ice	2.200	1.396	0.077
			1.000			1" Ice	2.386	1.554	0.097
RRUS 4478 B14_CCIV2	C	From Leg	4.000	0.000	111.000	No Ice	2.021	1.246	0.059
			0.000			1/2" Ice	2.200	1.396	0.077
			1.000			1" Ice	2.386	1.554	0.097
DC9-48-60-24-8C-EV_CCIV 2	A	From Leg	4.000	0.000	111.000	No Ice	2.736	2.736	0.016
			0.000			1/2" Ice	2.962	2.962	0.042
			1.000			1" Ice	3.195	3.195	0.071
6' x 2" Mount Pipe	A	From Leg	4.000	0.000	111.000	No Ice	1.425	1.425	0.022
			0.000			1/2" Ice	1.925	1.925	0.033
			0.000			1" Ice	2.294	2.294	0.048

tnxTower B+T Group 1717 S. Boulder, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 295-0265	Job	100049.005.01 - BEAUMONT FARM, CT (BU# 876310)	Page	11 of 19
	Project		Date	19:13:25 01/18/22
	Client	Crown Castle		Designed by

Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	C _{AA} Front	C _{AA} Side	Weight	
			Horz Lateral	Vert						°
6' x 2" Mount Pipe	B	From Leg	4.000	0.000	0.000	111.000	No Ice	1.425	1.425	0.022
			0.000	0.000			1/2" Ice	1.925	1.925	0.033
			0.000	0.000			1" Ice	2.294	2.294	0.048
6' x 2" Mount Pipe	C	From Leg	4.000	0.000	0.000	111.000	No Ice	1.425	1.425	0.022
			0.000	0.000			1/2" Ice	1.925	1.925	0.033
			0.000	0.000			1" Ice	2.294	2.294	0.048
8' x 2" Mount Pipe	A	From Leg	4.000	0.000	0.000	111.000	No Ice	1.900	1.900	0.029
			0.000	0.000			1/2" Ice	2.728	2.728	0.044
			0.000	0.000			1" Ice	3.401	3.401	0.063
8' x 2" Mount Pipe	B	From Leg	4.000	0.000	0.000	111.000	No Ice	1.900	1.900	0.029
			0.000	0.000			1/2" Ice	2.728	2.728	0.044
			0.000	0.000			1" Ice	3.401	3.401	0.063
8' x 2" Mount Pipe	C	From Leg	4.000	0.000	0.000	111.000	No Ice	1.900	1.900	0.029
			0.000	0.000			1/2" Ice	2.728	2.728	0.044
			0.000	0.000			1" Ice	3.401	3.401	0.063
Platform Mount [LP 1201-1_HR-1]	C	None			0.000	111.000	No Ice	26.390	26.390	2.356
							1/2" Ice	31.400	31.400	3.061
							1" Ice	36.200	36.200	3.864
T-Arm Mount [TA 702-3]	C	None			0.000	111.000	No Ice	4.750	4.750	0.339
							1/2" Ice	5.820	5.820	0.432
							1" Ice	6.980	6.980	0.550
* OG-860/1920/GPS-A	B	From Leg	3.000	0.000	0.000	70.000	No Ice	0.308	0.367	0.003
			0.000	0.000			1/2" Ice	0.395	0.457	0.007
			0.000	0.000			1" Ice	0.490	0.555	0.011
Side Arm Mount [SO 701-1]	B	From Leg	1.500	0.000	0.000	70.000	No Ice	0.850	1.670	0.065
			0.000	0.000			1/2" Ice	1.140	2.340	0.079
			0.000	0.000			1" Ice	1.430	3.010	0.093

Dishes

Description	Face or Leg	Dish Type	Offset Type	Offsets:		Azimuth Adjustment	3 dB Beam Width	Elevation	Outside Diameter	Aperture Area	Weight	
				Horz Lateral	Vert							°
* VHLP1-23-DW1	B	Paraboloid w/Shroud (HP)	From Leg	4.000	-20.000	-20.000		130.000		No Ice	1.280	0.000
				0.000						1/2" Ice	1.450	0.000
				4.000						1" Ice	1.630	0.000
VHLP800-11	B	Paraboloid w/Shroud (HP)	From Leg	4.000	1.000	1.000		130.000	2.917	No Ice	6.681	0.022
				0.000						1/2" Ice	7.069	0.058
				1.000						1" Ice	7.456	0.094
VHLP2-23	C	Paraboloid w/Shroud (HP)	From Leg	4.000	-30.000	-30.000		130.000	2.175	No Ice	3.715	0.031
				0.000						1/2" Ice	4.006	0.052
				4.000						1" Ice	4.296	0.072

<p>tnxTower</p> <p>B+T Group 1717 S. Boulder, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 295-0265</p>	Job 100049.005.01 - BEAUMONT FARM, CT (BU# 876310)	Page 12 of 19
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	Client Crown Castle	Designed by R AITHAL

Load Combinations

Comb. No.	Description
1	Dead Only
2	1.2 Dead+1.0 Wind 0 deg - No Ice
3	0.9 Dead+1.0 Wind 0 deg - No Ice
4	1.2 Dead+1.0 Wind 30 deg - No Ice
5	0.9 Dead+1.0 Wind 30 deg - No Ice
6	1.2 Dead+1.0 Wind 60 deg - No Ice
7	0.9 Dead+1.0 Wind 60 deg - No Ice
8	1.2 Dead+1.0 Wind 90 deg - No Ice
9	0.9 Dead+1.0 Wind 90 deg - No Ice
10	1.2 Dead+1.0 Wind 120 deg - No Ice
11	0.9 Dead+1.0 Wind 120 deg - No Ice
12	1.2 Dead+1.0 Wind 150 deg - No Ice
13	0.9 Dead+1.0 Wind 150 deg - No Ice
14	1.2 Dead+1.0 Wind 180 deg - No Ice
15	0.9 Dead+1.0 Wind 180 deg - No Ice
16	1.2 Dead+1.0 Wind 210 deg - No Ice
17	0.9 Dead+1.0 Wind 210 deg - No Ice
18	1.2 Dead+1.0 Wind 240 deg - No Ice
19	0.9 Dead+1.0 Wind 240 deg - No Ice
20	1.2 Dead+1.0 Wind 270 deg - No Ice
21	0.9 Dead+1.0 Wind 270 deg - No Ice
22	1.2 Dead+1.0 Wind 300 deg - No Ice
23	0.9 Dead+1.0 Wind 300 deg - No Ice
24	1.2 Dead+1.0 Wind 330 deg - No Ice
25	0.9 Dead+1.0 Wind 330 deg - No Ice
26	1.2 Dead+1.0 Ice+1.0 Temp
27	1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp
28	1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp
29	1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp
30	1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp
31	1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp
32	1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp
33	1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp
34	1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp
35	1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp
36	1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp
37	1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp
38	1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp
39	Dead+Wind 0 deg - Service
40	Dead+Wind 30 deg - Service
41	Dead+Wind 60 deg - Service
42	Dead+Wind 90 deg - Service
43	Dead+Wind 120 deg - Service
44	Dead+Wind 150 deg - Service
45	Dead+Wind 180 deg - Service
46	Dead+Wind 210 deg - Service
47	Dead+Wind 240 deg - Service
48	Dead+Wind 270 deg - Service
49	Dead+Wind 300 deg - Service
50	Dead+Wind 330 deg - Service

Maximum Member Forces

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
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Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L1	147 - 133.5	Pole	Max Tension	48	0.000	-0.000	-0.000
			Max. Compression	26	-6.320	0.310	0.130
			Max. Mx	20	-3.703	39.723	-0.019
			Max. My	2	-3.698	0.033	39.910
			Max. Vy	20	-4.512	39.723	-0.019
			Max. Vx	2	-4.578	0.033	39.910
			Max. Torque	25			0.544
L2	133.5 - 133	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-6.383	0.310	0.131
			Max. Mx	20	-3.753	41.984	-0.052
			Max. My	2	-3.748	0.002	42.204
			Max. Vy	20	-4.535	41.984	-0.052
			Max. Vx	2	-4.601	0.002	42.204
			Max. Torque	25			0.544
L3	133 - 85.5	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-40.326	0.829	1.184
			Max. Mx	20	-22.636	915.567	-4.120
			Max. My	2	-22.686	-0.984	907.519
			Max. Vy	20	-26.659	915.567	-4.120
			Max. Vx	2	-26.414	-0.984	907.519
			Max. Torque	9			1.144
L4	85.5 - 42.75	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-51.021	0.533	1.085
			Max. Mx	20	-32.786	2100.836	-10.289
			Max. My	2	-32.811	-3.911	2083.174
			Max. Vy	20	-30.064	2100.836	-10.289
			Max. Vx	2	-29.844	-3.911	2083.174
			Max. Torque	9			1.178
L5	42.75 - 0	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-67.274	0.533	1.184
			Max. Mx	20	-48.322	3608.263	-17.263
			Max. My	2	-48.322	-7.275	3580.444
			Max. Vy	20	-33.165	3608.263	-17.263
			Max. Vx	2	-32.959	-7.275	3580.444
			Max. Torque	9			1.192

Maximum Reactions

Location	Condition	Gov. Load Comb.	Vertical K	Horizontal, X K	Horizontal, Z K
Pole	Max. Vert	36	67.274	8.495	-0.026
	Max. H _x	20	48.362	33.107	-0.142
	Max. H _z	2	48.362	-0.069	32.901
	Max. M _x	2	3580.444	-0.069	32.901
	Max. M _z	8	3596.184	-33.021	0.214
	Max. Torsion	9	1.192	-33.021	0.214
	Min. Vert	5	36.271	-16.721	28.543
	Min. H _x	9	36.271	-33.021	0.214
	Min. H _z	14	48.362	0.127	-32.836
	Min. M _x	14	-3570.262	0.127	-32.836
	Min. M _z	20	-3608.263	33.107	-0.142
	Min. Torsion	21	-1.006	33.107	-0.142

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Tower Mast Reaction Summary

Load Combination	Vertical	Shear _x	Shear _z	Overtuning Moment, M _x	Overtuning Moment, M _z	Torque
	K	K	K	kip-ft	kip-ft	kip-ft
Dead Only	40.302	0.000	0.000	-0.352	-0.001	0.000
1.2 Dead+1.0 Wind 0 deg - No Ice	48.362	0.069	-32.901	-3580.444	-7.275	-0.034
0.9 Dead+1.0 Wind 0 deg - No Ice	36.271	0.069	-32.901	-3509.996	-7.154	-0.034
1.2 Dead+1.0 Wind 30 deg - No Ice	48.362	16.721	-28.543	-3106.414	-1825.798	-0.101
0.9 Dead+1.0 Wind 30 deg - No Ice	36.271	16.721	-28.543	-3045.281	-1789.899	-0.104
1.2 Dead+1.0 Wind 60 deg - No Ice	48.362	28.744	-16.561	-1803.791	-3133.791	-0.763
0.9 Dead+1.0 Wind 60 deg - No Ice	36.271	28.744	-16.561	-1768.245	-3072.205	-0.768
1.2 Dead+1.0 Wind 90 deg - No Ice	48.362	33.021	-0.214	-28.553	-3596.184	-1.185
0.9 Dead+1.0 Wind 90 deg - No Ice	36.271	33.021	-0.214	-27.843	-3525.531	-1.192
1.2 Dead+1.0 Wind 120 deg - No Ice	48.362	28.487	16.271	1766.282	-3100.083	-0.687
0.9 Dead+1.0 Wind 120 deg - No Ice	36.271	28.487	16.271	1731.723	-3039.182	-0.693
1.2 Dead+1.0 Wind 150 deg - No Ice	48.362	16.367	28.332	3078.432	-1780.001	-0.383
0.9 Dead+1.0 Wind 150 deg - No Ice	36.271	16.367	28.332	3018.099	-1745.035	-0.386
1.2 Dead+1.0 Wind 180 deg - No Ice	48.362	-0.127	32.836	3570.262	15.447	-0.263
0.9 Dead+1.0 Wind 180 deg - No Ice	36.271	-0.127	32.836	3500.277	15.137	-0.264
1.2 Dead+1.0 Wind 210 deg - No Ice	48.362	-16.650	28.534	3104.103	1815.687	0.009
0.9 Dead+1.0 Wind 210 deg - No Ice	36.271	-16.650	28.534	3043.265	1779.997	0.011
1.2 Dead+1.0 Wind 240 deg - No Ice	48.362	-28.777	16.470	1789.901	3138.429	0.857
0.9 Dead+1.0 Wind 240 deg - No Ice	36.271	-28.777	16.470	1754.898	3076.736	0.862
1.2 Dead+1.0 Wind 270 deg - No Ice	48.362	-33.107	0.142	17.264	3608.263	1.000
0.9 Dead+1.0 Wind 270 deg - No Ice	36.271	-33.107	0.142	17.036	3537.358	1.006
1.2 Dead+1.0 Wind 300 deg - No Ice	48.362	-28.592	-16.283	-1768.730	3115.145	0.751
0.9 Dead+1.0 Wind 300 deg - No Ice	36.271	-28.592	-16.283	-1733.885	3053.908	0.756
1.2 Dead+1.0 Wind 330 deg - No Ice	48.362	-16.411	-28.423	-3092.277	1786.118	0.331
0.9 Dead+1.0 Wind 330 deg - No Ice	36.271	-16.411	-28.423	-3031.403	1751.012	0.334
1.2 Dead+1.0 Ice+1.0 Temp	67.274	-0.000	-0.000	-1.184	0.533	-0.000
1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp	67.274	0.012	-8.460	-970.852	-0.559	0.002
1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp	67.274	4.279	-7.335	-841.944	-490.958	-0.147
1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp	67.274	7.370	-4.250	-488.545	-845.248	-0.381
1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp	67.274	8.478	-0.041	-6.831	-971.639	-0.504

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Load Combination	Vertical K	Shear _x K	Shear _z K	Overturning Moment, M _x kip-ft	Overturning Moment, M _z kip-ft	Torque kip-ft
1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp	67.274	7.321	4.196	478.937	-838.575	-0.371
1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp	67.274	4.212	7.296	833.995	-482.093	-0.215
1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp	67.274	-0.023	8.447	966.237	3.418	-0.062
1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp	67.274	-4.265	7.333	838.923	490.110	0.126
1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp	67.274	-7.376	4.232	483.189	847.437	0.396
1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp	67.274	-8.495	0.026	1.984	975.409	0.466
1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp	67.274	-7.342	-4.198	-481.906	842.986	0.384
1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp	67.274	-4.221	-7.314	-839.363	484.599	0.205
Dead+Wind 0 deg - Service	40.302	0.016	-7.754	-836.099	-1.691	-0.009
Dead+Wind 30 deg - Service	40.302	3.941	-6.727	-725.495	-426.222	-0.032
Dead+Wind 60 deg - Service	40.302	6.774	-3.903	-421.402	-731.600	-0.196
Dead+Wind 90 deg - Service	40.302	7.783	-0.050	-6.945	-839.499	-0.299
Dead+Wind 120 deg - Service	40.302	6.714	3.835	412.039	-723.674	-0.176
Dead+Wind 150 deg - Service	40.302	3.858	6.678	718.329	-415.508	-0.098
Dead+Wind 180 deg - Service	40.302	-0.030	7.739	833.135	3.605	-0.063
Dead+Wind 210 deg - Service	40.302	-3.924	6.725	724.373	423.871	0.008
Dead+Wind 240 deg - Service	40.302	-6.782	3.882	417.585	732.691	0.217
Dead+Wind 270 deg - Service	40.302	-7.803	0.033	3.734	842.351	0.254
Dead+Wind 300 deg - Service	40.302	-6.739	-3.838	-413.200	727.215	0.193
Dead+Wind 330 deg - Service	40.302	-3.868	-6.699	-722.152	416.958	0.086

Solution Summary

Load Comb.	Sum of Applied Forces			Sum of Reactions			% Error
	PX K	PY K	PZ K	PX K	PY K	PZ K	
1	0.000	-40.302	0.000	0.000	40.302	0.000	0.000%
2	0.069	-48.362	-32.901	-0.069	48.362	32.901	0.000%
3	0.069	-36.271	-32.901	-0.069	36.271	32.901	0.000%
4	16.721	-48.362	-28.543	-16.721	48.362	28.543	0.000%
5	16.721	-36.271	-28.543	-16.721	36.271	28.543	0.000%
6	28.744	-48.362	-16.561	-28.744	48.362	16.561	0.000%
7	28.744	-36.271	-16.561	-28.744	36.271	16.561	0.000%
8	33.021	-48.362	-0.214	-33.021	48.362	0.214	0.000%
9	33.021	-36.271	-0.214	-33.021	36.271	0.214	0.000%
10	28.487	-48.362	16.271	-28.487	48.362	-16.271	0.000%
11	28.487	-36.271	16.271	-28.487	36.271	-16.271	0.000%
12	16.367	-48.362	28.332	-16.367	48.362	-28.332	0.000%
13	16.367	-36.271	28.332	-16.367	36.271	-28.332	0.000%
14	-0.127	-48.362	32.836	0.127	48.362	-32.836	0.000%
15	-0.127	-36.271	32.836	0.127	36.271	-32.836	0.000%
16	-16.650	-48.362	28.534	16.650	48.362	-28.534	0.000%
17	-16.650	-36.271	28.534	16.650	36.271	-28.534	0.000%
18	-28.777	-48.362	16.470	28.777	48.362	-16.470	0.000%
19	-28.777	-36.271	16.470	28.777	36.271	-16.470	0.000%
20	-33.107	-48.362	0.142	33.107	48.362	-0.142	0.000%
21	-33.107	-36.271	0.142	33.107	36.271	-0.142	0.000%
22	-28.592	-48.362	-16.283	28.592	48.362	16.283	0.000%
23	-28.592	-36.271	-16.283	28.592	36.271	16.283	0.000%
24	-16.411	-48.362	-28.423	16.411	48.362	28.423	0.000%

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Load Comb.	Sum of Applied Forces			Sum of Reactions			% Error
	PX K	PY K	PZ K	PX K	PY K	PZ K	
25	-16.411	-36.271	-28.423	16.411	36.271	28.423	0.000%
26	0.000	-67.274	0.000	0.000	67.274	0.000	0.000%
27	0.012	-67.274	-8.460	-0.012	67.274	8.460	0.000%
28	4.279	-67.274	-7.335	-4.279	67.274	7.335	0.000%
29	7.370	-67.274	-4.250	-7.370	67.274	4.250	0.000%
30	8.478	-67.274	-0.041	-8.478	67.274	0.041	0.000%
31	7.321	-67.274	4.196	-7.321	67.274	-4.196	0.000%
32	4.212	-67.274	7.296	-4.212	67.274	-7.296	0.000%
33	-0.023	-67.274	8.447	0.023	67.274	-8.447	0.000%
34	-4.265	-67.274	7.333	4.265	67.274	-7.333	0.000%
35	-7.376	-67.274	4.232	7.376	67.274	-4.232	0.000%
36	-8.495	-67.274	0.026	8.495	67.274	-0.026	0.000%
37	-7.342	-67.274	-4.198	7.342	67.274	4.198	0.000%
38	-4.221	-67.274	-7.313	4.221	67.274	7.314	0.000%
39	0.016	-40.302	-7.754	-0.016	40.302	7.754	0.000%
40	3.941	-40.302	-6.727	-3.941	40.302	6.727	0.000%
41	6.774	-40.302	-3.903	-6.774	40.302	3.903	0.000%
42	7.783	-40.302	-0.050	-7.783	40.302	0.050	0.000%
43	6.714	-40.302	3.835	-6.714	40.302	-3.835	0.000%
44	3.858	-40.302	6.678	-3.858	40.302	-6.678	0.000%
45	-0.030	-40.302	7.739	0.030	40.302	-7.739	0.000%
46	-3.924	-40.302	6.725	3.924	40.302	-6.725	0.000%
47	-6.782	-40.302	3.882	6.782	40.302	-3.882	0.000%
48	-7.803	-40.302	0.033	7.803	40.302	-0.033	0.000%
49	-6.739	-40.302	-3.838	6.739	40.302	3.838	0.000%
50	-3.868	-40.302	-6.699	3.868	40.302	6.699	0.000%

Non-Linear Convergence Results

Load Combination	Converged?	Number of Cycles	Displacement Tolerance	Force Tolerance
1	Yes	4	0.00000001	0.00000001
2	Yes	5	0.00000001	0.00007617
3	Yes	5	0.00000001	0.00002434
4	Yes	7	0.00000001	0.00032268
5	Yes	7	0.00000001	0.00006879
6	Yes	7	0.00000001	0.00032523
7	Yes	7	0.00000001	0.00006958
8	Yes	6	0.00000001	0.00016188
9	Yes	5	0.00000001	0.00080890
10	Yes	7	0.00000001	0.00031582
11	Yes	7	0.00000001	0.00006798
12	Yes	7	0.00000001	0.00031690
13	Yes	7	0.00000001	0.00006831
14	Yes	5	0.00000001	0.00036712
15	Yes	5	0.00000001	0.00015597
16	Yes	7	0.00000001	0.00032074
17	Yes	7	0.00000001	0.00006852
18	Yes	7	0.00000001	0.00031853
19	Yes	7	0.00000001	0.00006795
20	Yes	5	0.00000001	0.00008260
21	Yes	5	0.00000001	0.00003381
22	Yes	7	0.00000001	0.00032028
23	Yes	7	0.00000001	0.00006895
24	Yes	7	0.00000001	0.00031895
25	Yes	7	0.00000001	0.00006853

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26	Yes	4	0.00000001	0.00002532
27	Yes	6	0.00000001	0.00029858
28	Yes	6	0.00000001	0.00093257
29	Yes	6	0.00000001	0.00094830
30	Yes	6	0.00000001	0.00030391
31	Yes	6	0.00000001	0.00089513
32	Yes	6	0.00000001	0.00090554
33	Yes	6	0.00000001	0.00029642
34	Yes	6	0.00000001	0.00093202
35	Yes	6	0.00000001	0.00091591
36	Yes	6	0.00000001	0.00030208
37	Yes	6	0.00000001	0.00093478
38	Yes	6	0.00000001	0.00092330
39	Yes	4	0.00000001	0.00053787
40	Yes	5	0.00000001	0.00073519
41	Yes	5	0.00000001	0.00075210
42	Yes	4	0.00000001	0.00097266
43	Yes	5	0.00000001	0.00069133
44	Yes	5	0.00000001	0.00069761
45	Yes	4	0.00000001	0.00051751
46	Yes	5	0.00000001	0.00072250
47	Yes	5	0.00000001	0.00070813
48	Yes	4	0.00000001	0.00065768
49	Yes	5	0.00000001	0.00072246
50	Yes	5	0.00000001	0.00071290

Maximum Tower Deflections - Service Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	147 - 133.5	36.315	41	2.089	0.002
L2	133.5 - 133	30.434	41	2.054	0.002
L3	133 - 85.5	30.219	41	2.053	0.002
L4	89.25 - 42.75	13.348	41	1.487	0.001
L5	47.5 - 0	3.600	41	0.713	0.000

Critical Deflections and Radius of Curvature - Service Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
143.000	MX08FRO665-21 w/ Mount Pipe	41	34.563	2.078	0.003	26950
134.000	VHLP1-23-DW1	41	30.649	2.055	0.002	11231
131.000	VHLP800-11	41	29.362	2.048	0.002	10080
130.000	LLPX310R-V1 w/ Mount Pipe	41	28.935	2.044	0.002	9651
124.000	(2) LPA-80080-6CF-EDIN w/ Mount Pipe	41	26.401	2.007	0.002	7315
111.000	(2) DC6-48-60-18-8F	41	21.133	1.860	0.002	4754
70.000	OG-860/1920/GPS-A	41	7.948	1.121	0.001	2877

Maximum Tower Deflections - Design Wind

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Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	147 - 133.5	155.276	20	8.973	0.008
L2	133.5 - 133	130.170	6	8.825	0.006
L3	133 - 85.5	129.252	6	8.821	0.006
L4	89.25 - 42.75	57.181	6	6.383	0.004
L5	47.5 - 0	15.430	6	3.057	0.001

Critical Deflections and Radius of Curvature - Design Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
143.000	MX08FRO665-21 w/ Mount Pipe	20	147.789	8.924	0.011	6637
134.000	VHLP1-23-DW1	6	131.089	8.829	0.009	2753
131.000	VHLP800-11	6	125.593	8.797	0.009	2458
130.000	LLPX310R-V1 w/ Mount Pipe	6	123.770	8.780	0.009	2355
124.000	(2) LPA-80080-6CF-EDIN w/ Mount Pipe	6	112.954	8.622	0.008	1778
111.000	(2) DC6-48-60-18-8F	6	90.456	7.988	0.007	1147
70.000	OG-860/1920/GPS-A	6	34.064	4.811	0.003	680

Compression Checks

Pole Design Data

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
L1	147 - 133.5 (1)	TP12.75x12.75x0.5	13.500	0.000	0.0	19.242	-3.698	606.131	0.006
L2	133.5 - 133 (2)	TP19.537x12.75x0.5	0.500	0.000	0.0	19.242	-3.724	606.131	0.006
L3	133 - 85.5 (3)	TP29.418x19.537x0.313	47.500	0.000	0.0	28.503	-22.624	1667.390	0.014
L4	85.5 - 42.75 (4)	TP37.687x28.013x0.375	46.500	0.000	0.0	43.861	-32.779	2565.870	0.013
L5	42.75 - 0 (5)	TP45.83x35.949x0.438	47.500	0.000	0.0	63.947	-48.322	3740.880	0.013

Pole Bending Design Data

Section No.	Elevation ft	Size	M _{ux} kip-ft	φM _{ux} kip-ft	Ratio $\frac{M_{ux}}{\phi M_{ux}}$	M _{uy} kip-ft	φM _{uy} kip-ft	Ratio $\frac{M_{uy}}{\phi M_{uy}}$
L1	147 - 133.5 (1)	TP12.75x12.75x0.5	39.910	197.067	0.203	0.000	197.067	0.000
L2	133.5 - 133 (2)	TP19.537x12.75x0.5	39.910	197.067	0.203	0.000	197.067	0.000
L3	133 - 85.5 (3)	TP29.418x19.537x0.313	916.975	1171.592	0.783	0.000	1171.592	0.000
L4	85.5 - 42.75 (4)	TP37.687x28.013x0.375	2105.158	2260.617	0.931	0.000	2260.617	0.000
L5	42.75 - 0 (5)	TP45.83x35.949x0.438	3615.842	4014.483	0.901	0.000	4014.483	0.000

tnxTower B+T Group 1717 S. Boulder, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 295-0265	Job 100049.005.01 - BEAUMONT FARM, CT (BU# 876310)	Page 19 of 19
	Project	Date 19:13:25 01/18/22
	Client Crown Castle	Designed by R AITHAL

Pole Shear Design Data

Section No.	Elevation ft	Size	Actual V_u K	ϕV_n K	Ratio $\frac{V_u}{\phi V_n}$	Actual T_u kip-ft	ϕT_n kip-ft	Ratio $\frac{T_u}{\phi T_n}$
L1	147 - 133.5 (1)	TP12.75x12.75x0.5	4.578	181.839	0.025	0.493	195.841	0.003
L2	133.5 - 133 (2)	TP19.537x12.75x0.5	4.601	282.586	0.016	0.493	195.841	0.003
L3	133 - 85.5 (3)	TP29.418x19.537x0.313	26.711	500.218	0.053	0.832	1246.333	0.001
L4	85.5 - 42.75 (4)	TP37.687x28.013x0.375	30.134	769.760	0.039	0.676	2459.500	0.000
L5	42.75 - 0 (5)	TP45.83x35.949x0.438	33.231	1122.260	0.030	0.763	4481.042	0.000

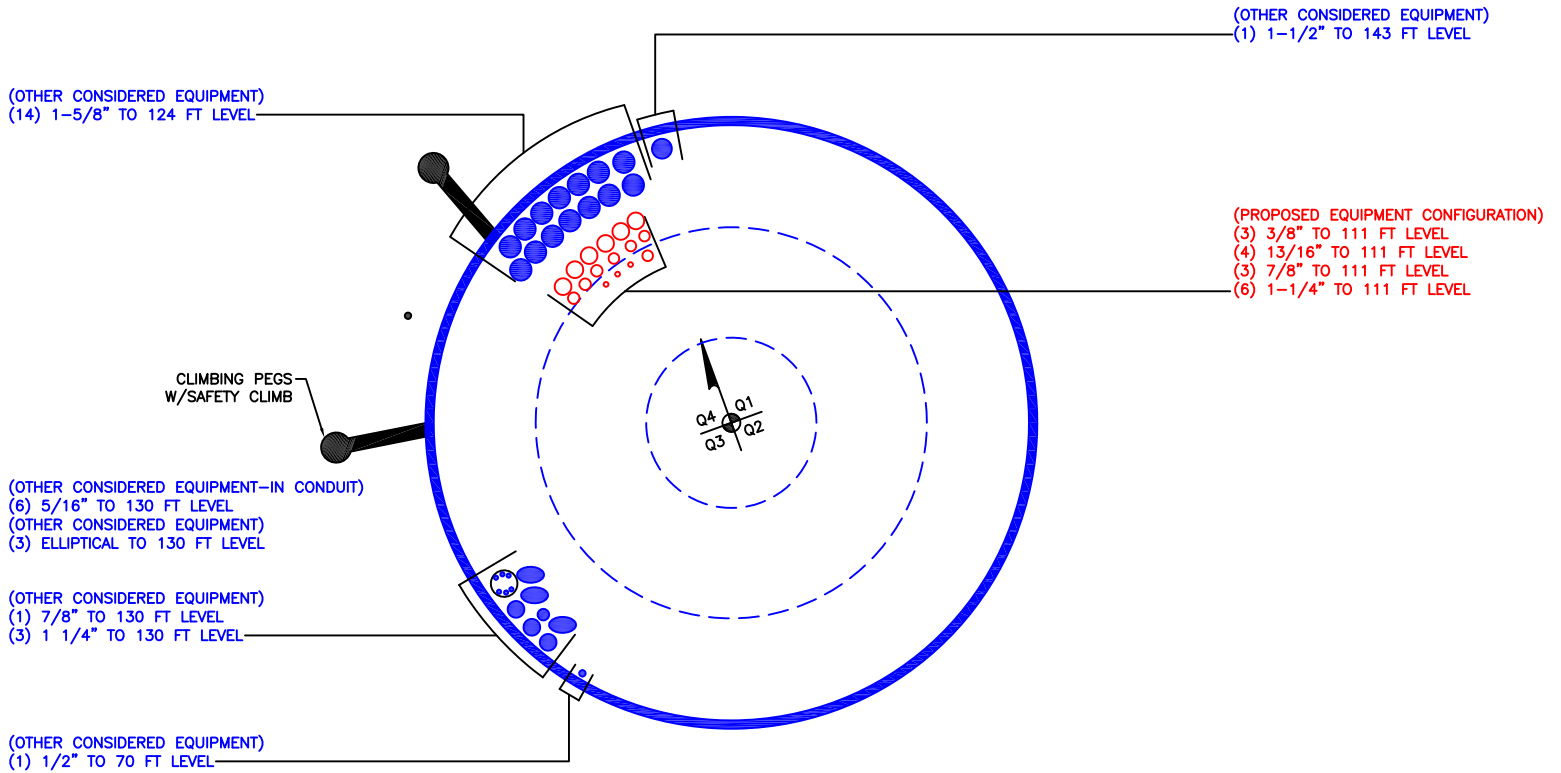
Pole Interaction Design Data

Section No.	Elevation ft	Ratio $\frac{P_u}{\phi P_n}$	Ratio $\frac{M_{ux}}{\phi M_{nx}}$	Ratio $\frac{M_{uy}}{\phi M_{ny}}$	Ratio $\frac{V_u}{\phi V_n}$	Ratio $\frac{T_u}{\phi T_n}$	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
L1	147 - 133.5 (1)	0.006	0.203	0.000	0.025	0.003	0.209	1.050	4.8.2 ✓
L2	133.5 - 133 (2)	0.006	0.203	0.000	0.016	0.003	0.209	1.050	4.8.2 ✓
L3	133 - 85.5 (3)	0.014	0.783	0.000	0.053	0.001	0.799	1.050	4.8.2 ✓
L4	85.5 - 42.75 (4)	0.013	0.931	0.000	0.039	0.000	0.946	1.050	4.8.2 ✓
L5	42.75 - 0 (5)	0.013	0.901	0.000	0.030	0.000	0.915	1.050	4.8.2 ✓

Section Capacity Table

Section No.	Elevation ft	Component Type	Size	Critical Element	P K	ϕP_{allow} K	% Capacity	Pass Fail
L1	147 - 133.5	Pole	TP12.75x12.75x0.5	1	-3.698	636.438	19.9	Pass
L2	133.5 - 133	Pole	TP19.537x12.75x0.5	2	-3.724	636.438	19.9	Pass
L3	133 - 85.5	Pole	TP29.418x19.537x0.313	3	-22.624	1750.759	76.1	Pass
L4	85.5 - 42.75	Pole	TP37.687x28.013x0.375	4	-32.779	2694.163	90.1	Pass
L5	42.75 - 0	Pole	TP45.83x35.949x0.438	5	-48.322	3927.924	87.1	Pass
Summary								
Pole (L4)							90.1	Pass
RATING =							90.1	Pass

APPENDIX B
BASE LEVEL DRAWING



BUSINESS UNIT: 876310

APPENDIX C
ADDITIONAL CALCULATIONS

Monopole Flange Plate Connection

Elevation = 133 ft.



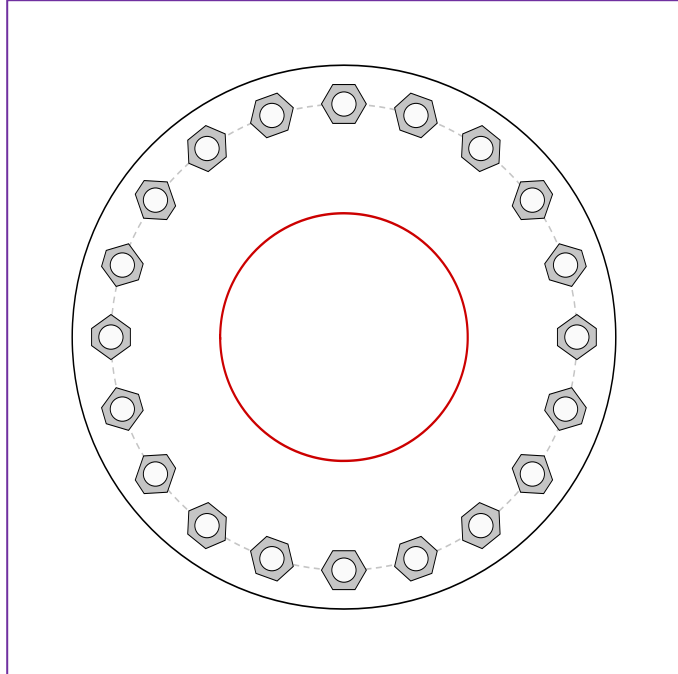
BU #	876310
Site Name	BEAUMONT FARM, CT
Order #	586260, Rev# 0

Applied Loads	
Moment (kip-ft)	42.20
Axial Force (kips)	3.75
Shear Force (kips)	4.60

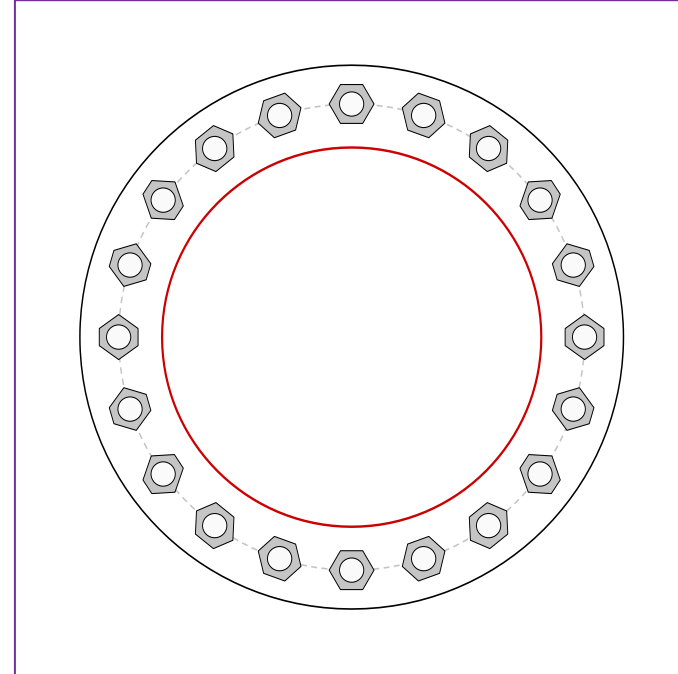
TIA-222 Revision	H
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*TIA-222-H Section 15.5 Applied

Top Plate - External



Bottom Plate - External



Connection Properties

Bolt Data

(20) 1-1/4" ϕ bolts (A325 N; Fy=81 ksi, Fu=120 ksi) on 24" BC

Top Plate Data

28" OD x 1" Plate (A572-50; Fy=50 ksi, Fu=65 ksi)

Top Stiffener Data

N/A

Top Pole Data

12.75" x 0.5" round pole (A53-B-35; Fy=35 ksi, Fu=60 ksi)

Bottom Plate Data

28" OD x 2" Plate (A572-50; Fy=50 ksi, Fu=65 ksi)

Bottom Stiffener Data

N/A

Bottom Pole Data

19.537" x 0.3125" 12-sided pole (A607-65; Fy=65 ksi, Fu=80 ksi)

Analysis Results

Bolt Capacity

Max Load (kips)	4.03
Allowable (kips)	87.21
Stress Rating:	4.4% Pass

Top Plate Capacity

Max Stress (ksi):	18.71	(Flexural)
Allowable Stress (ksi):	45.00	
Stress Rating:	39.6%	Pass
Tension Side Stress Rating:	48.7%	Pass

Bottom Plate Capacity

Max Stress (ksi):	1.82	(Flexural)
Allowable Stress (ksi):	45.00	
Stress Rating:	3.9%	Pass
Tension Side Stress Rating:	2.2%	Pass

Monopole Base Plate Connection

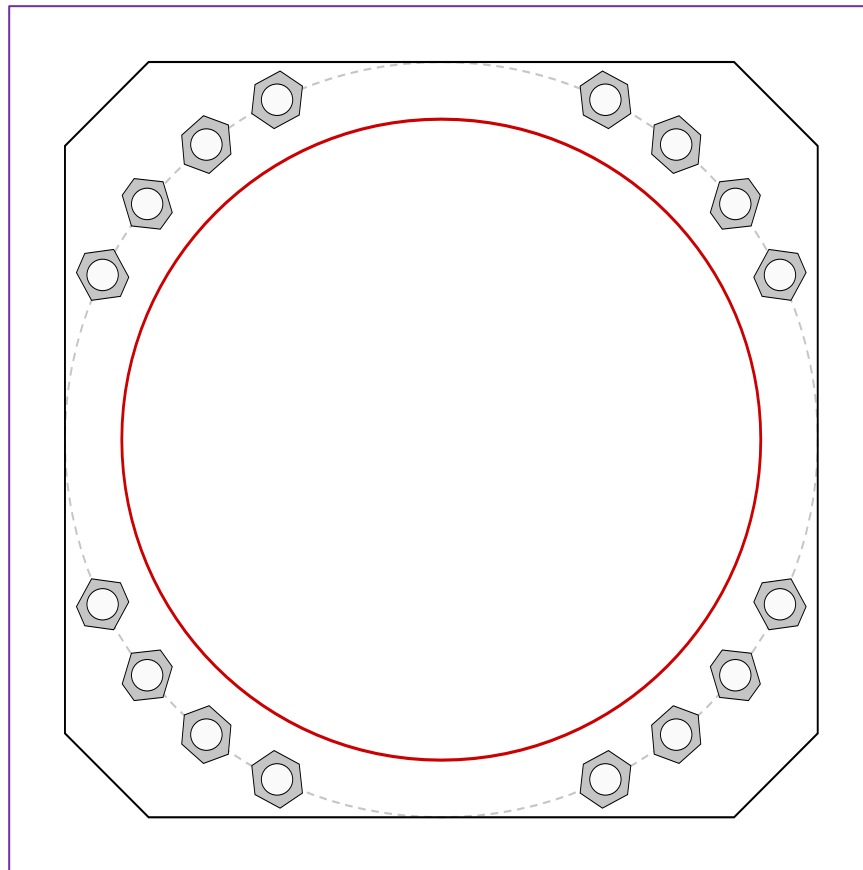


Site Info	
BU #	876310
Site Name	BEAUMONT FARM, CT
Order #	586260, Rev# 0

Analysis Considerations	
TIA-222 Revision	H
Grout Considered:	No
l_{ar} (in)	0.75

Applied Loads	
Moment (kip-ft)	3615.84
Axial Force (kips)	48.32
Shear Force (kips)	33.23

*TIA-222-H Section 15.5 Applied



Connection Properties	Analysis Results
-----------------------	------------------

Anchor Rod Data
(16) 2-1/4" ϕ bolts (A615-75 N; $F_y=75$ ksi, $F_u=100$ ksi) on 54" BC <i>Anchor Spacing: 6 in</i>
Base Plate Data
54" W x 3" Plate (A572-50; $F_y=50$ ksi, $F_u=65$ ksi); Clip: 6 in
Stiffener Data
N/A
Pole Data
45.83" x 0.4375" 12-sided pole (A607-65; $F_y=65$ ksi, $F_u=80$ ksi)

Anchor Rod Summary			<i>(units of kips, kip-in)</i>
P_{u_t} = 197.72	ϕP_{n_t} = 243.75	Stress Rating	
V_u = 2.08	ϕV_n = 149.1	77.3%	
M_u = n/a	ϕM_n = n/a	Pass	
Base Plate Summary			
Max Stress (ksi):	37.64	(Flexural)	
Allowable Stress (ksi):	45		
Stress Rating:	79.7%	Pass	

Pier and Pad Foundation



BU #: 876310
 Site Name: BEAUMONT FARM
 App. Number: 586260, Rev# 0

TIA-222 Revision: H
 Tower Type: Monopole

Top & Bot. Pad Rein. Different?:
 Block Foundation?:
 Rectangular Pad?:

Superstructure Analysis Reactions		
Compression, P_{comp} :	48.36	kips
Base Shear, Vu_{comp} :	33.17	kips
Moment, M_u :	3615.84	ft-kips
Tower Height, H :	147	ft
BP Dist. Above Fdn, bp_{dist} :	3	in
Bolt Circle / Bearing Plate Width, BC :	54	in

Foundation Analysis Checks				
	Capacity	Demand	Rating*	Check
<i>Lateral (Sliding) (kips)</i>	146.40	33.17	21.6%	Pass
<i>Bearing Pressure (ksf)</i>	30.00	6.64	22.1%	Pass
<i>Overturning (kip*ft)</i>	4387.77	3789.98	86.4%	Pass
<i>Pad Flexure (kip*ft)</i>	8614.79	2240.78	24.8%	Pass
<i>Pad Shear - 1-way (kips)</i>	1244.56	310.16	23.7%	Pass
<i>Pad Shear - 2-way (Comp) (ksi)</i>	0.164	0.000	0.0%	Pass
<i>Flexural 2-way (Comp) (kip*ft)</i>	11050.07	0.00	0.0%	Pass

*Rating per TIA-222-H Section 15.5

Structural Rating*:	24.8%
Soil Rating*:	86.4%

Pad Properties		
Depth, D :	4.5	ft
Pad Width, W_1 :	23	ft
Pad Thickness, T :	5	ft
Pad Rebar Size (Bottom dir. 2), Sp_2 :	11	
Pad Rebar Quantity (Bottom dir. 2), mp_2 :	23	
Pad Clear Cover, cc_{pad} :	3	in

Material Properties		
Rebar Grade, F_y :	60	ksi
Concrete Compressive Strength, F'_c :	3	ksi
Dry Concrete Density, δ_c :	150	pcf

Soil Properties		
Total Soil Unit Weight, γ :	165	pcf
Ultimate Gross Bearing, Q_{ult} :	40.000	ksf
Cohesion, C_u :	0.000	ksf
Friction Angle, ϕ :	30	degrees
SPT Blow Count, N_{blows} :	74	
Base Friction, μ :		
Neglected Depth, N :	3.33	ft
Foundation Bearing on Rock?	Yes	
Groundwater Depth, gw :	N/A	ft


<--Toggle between Gross and Net

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Company:	B+T Grp	Page:	1
Address:	1717 S. Boulder,Suite 300	Specifier:	Pavithra
Phone Fax:	918-587-4630	E-Mail:	
Design:	100049_876310_Beaumont Farm_CB	Date:	1/18/2022
Fastening point:			

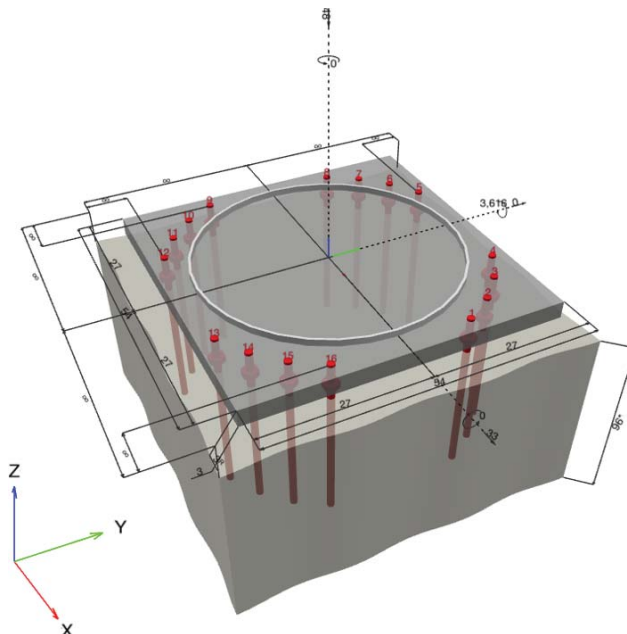
Specifier's comments:

1 Input data

Anchor type and diameter:	Heavy Hex Head 2.25 in dia AR	
Item number:	not available	
Effective embedment depth:	$h_{ef} = 54$ in	
Material:	ASTM F 1554	
Evaluation Service Report:	Hilti Technical Data	
Issued Valid:	- -	
Proof:	Design Method ACI 318-08 / CIP	
Stand-off installation:	without clamping (anchor); restraint level (anchor plate): 1.00; $e_b = 3.000$ in.; $t = 3.000$ in.	
Anchor plate ^R :	$l_x \times l_y \times t = 54.000$ in. x 54.000 in. x 3.000 in.; (Recommended plate thickness: not calculated)	
Profile:	Steel pipe, ; (L x W x T) = 45.830 in. x 45.830 in. x 0.437 in.	
Base material:	cracked concrete, 3000, $f'_c = 3,000$ psi; $h = 96.000$ in.	
Reinforcement:	tension: condition B, shear: condition B; edge reinforcement: none or < No. 4 bar	
Seismic loads (cat. C, D, E, or F)	no	

^R - The anchor calculation is based on a rigid anchor plate assumption.

Geometry [in.] & Loading [kip, ft.kip]





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Company:	B+T Grp	Page:	2
Address:	1717 S. Boulder, Suite 300	Specifier:	Pavithra
Phone Fax:	918-587-4630	E-Mail:	
Design:	100049_876310_Beaumont Farm_CB	Date:	1/18/2022
Fastening point:			

1.1 Design results

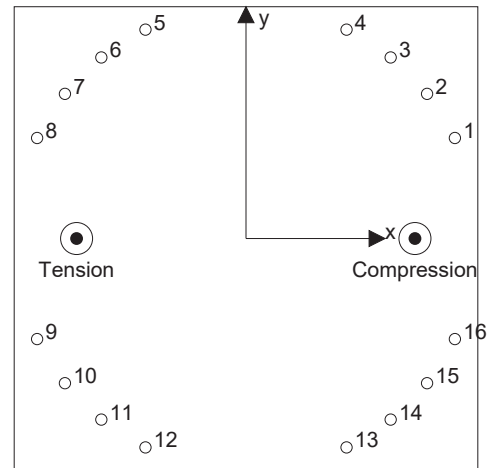
Case	Description	Forces [kip] / Moments [ft.kip]	Seismic	Max. Util. Anchor [%]
1	Combination 1	N = -48.000; V _x = 33.000; V _y = 0.000; M _x = 0.00000; M _y = 3,616.00000; M _z = 0.00000;	no	∞

2 Load case/Resulting anchor forces

Anchor reactions [kip]

Tension force: (+Tension, -Compression)

Anchor	Tension force	Shear force	Shear force x	Shear force y
1	-184.050	2.062	2.062	0.000
2	-159.940	2.062	2.062	0.000
3	-128.388	2.062	2.062	0.000
4	-90.139	2.062	2.062	0.000
5	84.139	2.062	2.062	0.000
6	122.388	2.062	2.062	0.000
7	153.940	2.062	2.062	0.000
8	178.050	2.062	2.062	0.000
9	178.050	2.062	2.062	0.000
10	153.940	2.062	2.062	0.000
11	122.388	2.062	2.062	0.000
12	84.139	2.062	2.062	0.000
13	-90.139	2.062	2.062	0.000
14	-128.388	2.062	2.062	0.000
15	-159.940	2.062	2.062	0.000
16	-184.050	2.062	2.062	0.000



max. concrete compressive strain: - [%]
 max. concrete compressive stress: - [psi]
 resulting tension force in (x/y)=(-19.732/0.000): 1,077.035 [kip]
 resulting compression force in (x/y)=(19.679/0.000): 1,125.035 [kip]

Anchor forces are calculated based on the assumption of a rigid anchor plate.

3 Tension load

	Load N _{ua} [kip]	Capacity ϕN_n [kip]	Utilization $\beta_N = N_{ua} / \phi N_n$	Rev H
Steel Strength*	-184.050	304.6875	60.40%	57.53%
Concrete Breakout Failure**	1,077.035	1162.215	92.67%	88.26%

Governing rating

Input data and results must be checked for conformity with the existing conditions and for plausibility!
 PROFIS Engineering (c) 2003-2022 Hilti AG, FL-9494 Schaan Hilti is a registered Trademark of Hilti AG, Schaan



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Company:	B+T Grp	Page:	3
Address:	1717 S. Boulder,Suite 300	Specifier:	Pavithra
Phone Fax:	918-587-4630	E-Mail:	
Design:	100049_876310_Beaumont Farm_CB	Date:	1/18/2022
Fastening point:			

3.1 Steel Strength

$$N_{sa} = A_{se,N} f_{uta} \quad \text{ACI 318-08 Eq. (D-3)}$$

$$\phi N_{sa} \geq N_{ua} \quad \text{ACI 318-08 Eq. (D-1)}$$

Variables

$A_{se,N}$ [in. ²]	f_{uta} [psi]
3.25	125000

Calculations

N_{sa} [kip]
406.25

Results

N_{sa} [kip]	ϕ_{steel}	ϕN_{sa} [kip]	N_{ua} [kip]
406.25	0.750	304.6875	-184.050

The steel proof was done for the highest absolute force per anchor - in this case compression loading. Please be aware that buckling should be verified separately

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Company:	B+T Grp	Page:	4
Address:	1717 S. Boulder,Suite 300	Specifier:	Pavithra
Phone Fax:	918-587-4630	E-Mail:	
Design:	100049_876310_Beaumont Farm_CB	Date:	1/18/2022
Fastening point:			

3.3 Concrete Breakout Failure

$$N_{cbg} = \left(\frac{A_{Nc}}{A_{Nc0}} \right) \psi_{ec,N} \psi_{ed,N} \psi_{c,N} \psi_{cp,N} N_b \quad \text{ACI 318-08 Eq. (D-5)}$$

$$\phi N_{cbg} \geq N_{ua} \quad \text{ACI 318-08 Eq. (D-1)}$$

 A_{Nc} see ACI 318-08, Part D.5.2.1, Fig. RD.5.2.1(b)

$$A_{Nc0} = 9 h_{ef}^2 \quad \text{ACI 318-08 Eq. (D-6)}$$

$$\psi_{ec,N} = \left(\frac{1}{1 + \frac{2 e_N}{3 h_{ef}}} \right) \leq 1.0 \quad \text{ACI 318-08 Eq. (D-9)}$$

$$\psi_{ed,N} = 0.7 + 0.3 \left(\frac{c_{a,min}}{1.5 h_{ef}} \right) \leq 1.0 \quad \text{ACI 318-08 Eq. (D-11)}$$

$$\psi_{cp,N} = \text{MAX} \left(\frac{c_{a,min}}{c_{ac}}, \frac{1.5 h_{ef}}{c_{ac}} \right) \leq 1.0 \quad \text{ACI 318-08 Eq. (D-13)}$$

$$N_b = 16 \lambda \sqrt{f_c} h_{ef}^{5/3} \quad \text{ACI 318-08 Eq. (D-8)}$$

Variables

h_{ef} [in.]	$e_{c1,N}$ [in.]	$e_{c2,N}$ [in.]	$c_{a,min}$ [in.]	$\psi_{c,N}$
54	1.237	0.000	∞	1.000
c_{ac} [in.]	k_c	λ	f_c [psi]	
-	16	1	3,000	

Calculations

A_{Nc} [in. ²]	A_{Nc0} [in. ²]	$\psi_{ec1,N}$	$\psi_{ec2,N}$	$\psi_{ed,N}$	$\psi_{cp,N}$	N_b [kip]
86436	57600	0.85	1.000	1.000	1.000	1301.659

Results

N_{cbg} [kip]	$\phi_{concrete}$	ϕN_{cbg} [kip]	N_{ua} [kip]
1660.307	0.700	1162.215	1,077.035

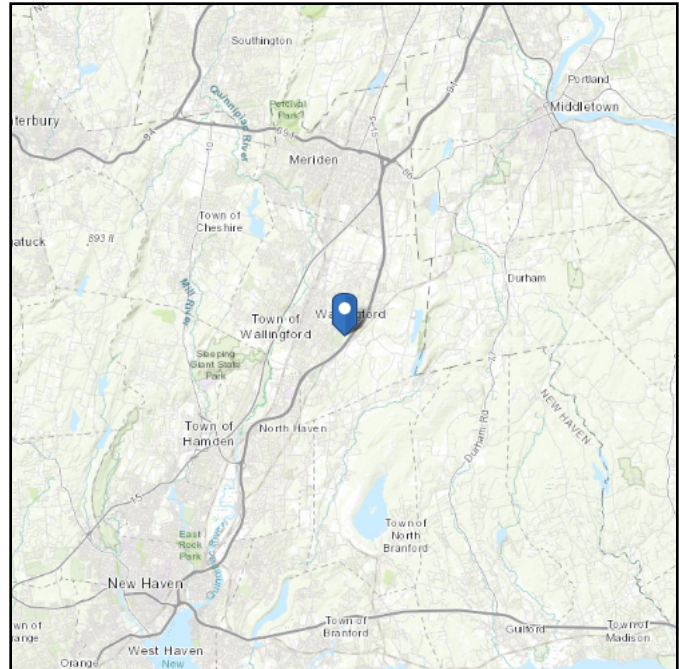
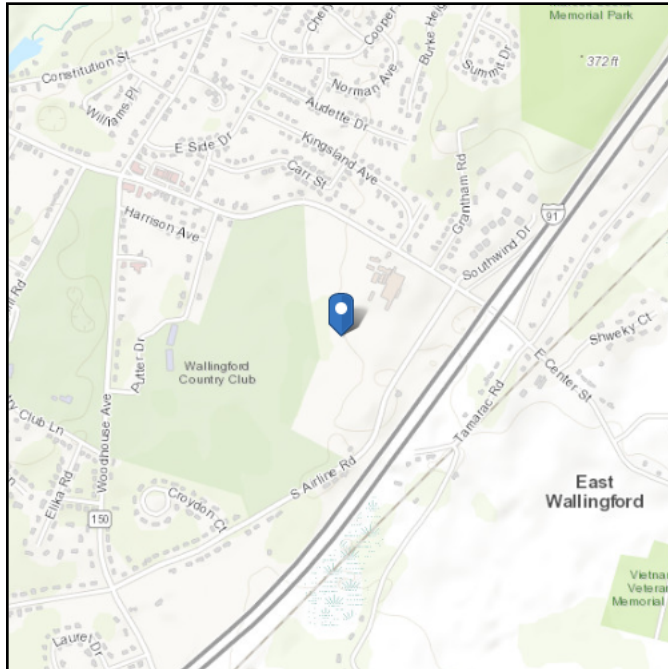
***Please refer excel sheet for calculations**

ASCE 7 Hazards Report

Address:
No Address at This Location

Standard: ASCE/SEI 7-16
Risk Category: II
Soil Class: D - Default (see Section 11.4.3)

Elevation: 243.75 ft (NAVD 88)
Latitude: 41.443711
Longitude: -72.796267



Wind

Results:

Wind Speed	120 Vmph
10-year MRI	75 Vmph
25-year MRI	85 Vmph
50-year MRI	91 Vmph
100-year MRI	98 Vmph

Data Source: ASCE/SEI 7-16, Fig. 26.5-1B and Figs. CC.2-1–CC.2-4, and Section 26.5.2
Date Accessed: Tue Jan 18 2022

Value provided is 3-second gust wind speeds at 33 ft above ground for Exposure C Category, based on linear interpolation between contours. Wind speeds are interpolated in accordance with the 7-16 Standard. Wind speeds correspond to approximately a 7% probability of exceedance in 50 years (annual exceedance probability = 0.00143, MRI = 700 years).

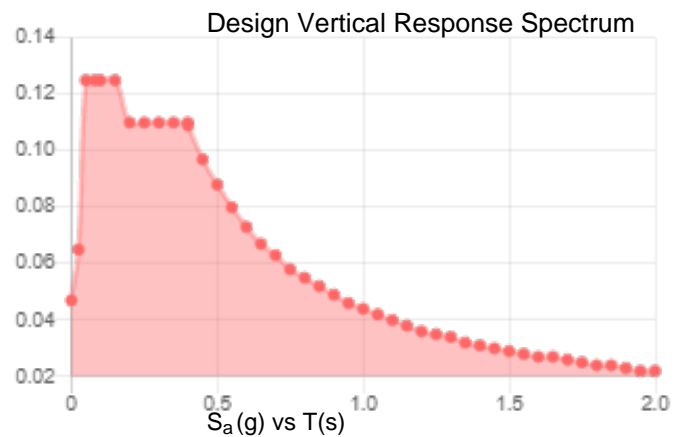
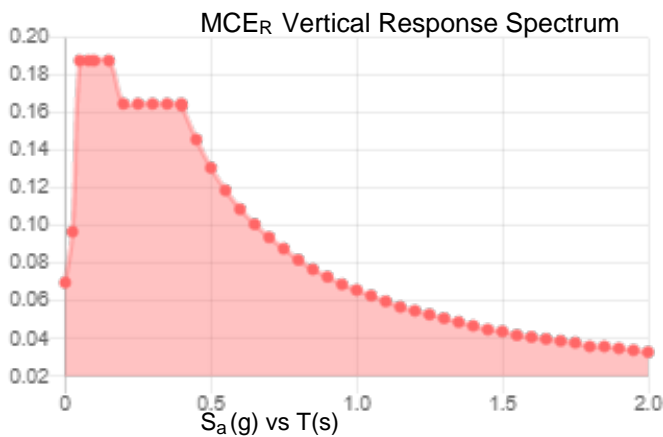
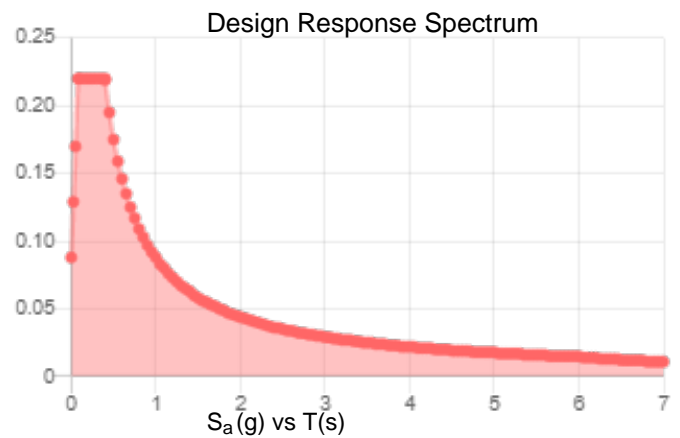
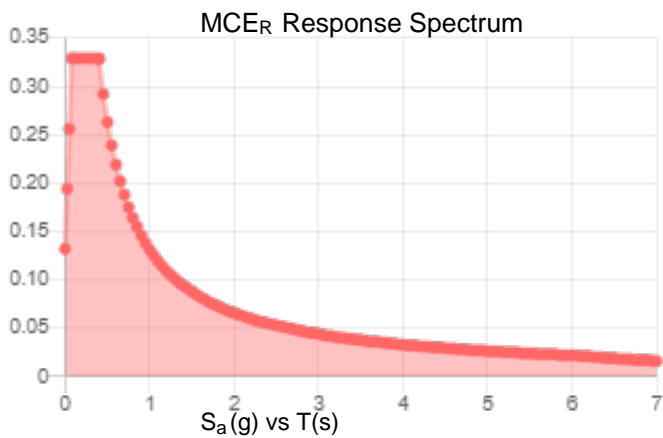
Site is in a hurricane-prone region as defined in ASCE/SEI 7-16 Section 26.2. Glazed openings need not be protected against wind-borne debris.

Site Soil Class: D - Default (see Section 11.4.3)

Results:

S_s :	0.206	S_{D1} :	0.088
S_1 :	0.055	T_L :	6
F_a :	1.6	PGA :	0.115
F_v :	2.4	PGA _M :	0.18
S_{MS} :	0.329	F_{PGA} :	1.57
S_{M1} :	0.131	I_e :	1
S_{DS} :	0.22	C_v :	0.712

Seismic Design Category B



Data Accessed: Tue Jan 18 2022

Date Source:

USGS Seismic Design Maps based on ASCE/SEI 7-16 and ASCE/SEI 7-16 Table 1.5-2. Additional data for site-specific ground motion procedures in accordance with ASCE/SEI 7-16 Ch. 21 are available from USGS.

Ice

Results:

Ice Thickness: 1.00 in.

Concurrent Temperature: 15 F

Gust Speed 50 mph

Data Source: Standard ASCE/SEI 7-16, Figs. 10-2 through 10-8

Date Accessed: Tue Jan 18 2022

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

Values provided are equivalent radial ice thicknesses due to freezing rain with concurrent 3-second gust speeds, for a 500-year mean recurrence interval, and temperatures concurrent with ice thicknesses due to freezing rain. Thicknesses for ice accretions caused by other sources shall be obtained from local meteorological studies. Ice thicknesses in exposed locations at elevations higher than the surrounding terrain and in valleys and gorges may exceed the mapped values.

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January 10, 2022

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Tower Engineering Professionals
326 Tryon Road
Raleigh, NC 27603
(919) 661-6351
CrownMA@tepgroup.net

Subject: Mount Analysis

Carrier Designation: AT&T Mobility Reconfiguration
Client Site Number: CTL02154
Client Site Name: Wallingford
FA Location Code: 10035139

Crown Castle Designation: **Crown Castle BU Number:** 876310
Crown Castle Site Name: Beaumont Farm
Crown Castle JDE Job Number: 686292
Crown Castle Order Number: 586260 Rev. 0

Engineering Firm Designation: **TEP Project Number:** 72875.638741

Site Data: 945 East Center St., Wallingford, New Haven County, CT 06492
Latitude 41° 26' 37.36", Longitude -72° 47' 46.56"

Structure Information: **Tower Height & Type:** 148.0± ft Monopole
Mount Elevation: 111.0 ft
Mount Width & Type: 14.0 ft Platform w/ Support Rail

Tower Engineering Professionals is pleased to submit this "Mount Analysis" to determine the structural integrity of AT&T Mobility's antenna mounting system with proposed appurtenance and equipment addition on the above mentioned supporting tower structure. Analysis of the existing supporting tower structure is to be completed by others and therefore is not part of this analysis. Analysis of the antenna mounting system as a tie-off point for fall protection or rigging is not part of this document.

The purpose of the analysis is to determine acceptability of the mount stress level. Based on our analysis, we have determined the mount stress level to be:

Platform w/ Support Rail Mount

Sufficient Capacity

This analysis utilizes an ultimate 3-second gust wind speed of 120 mph from the 2018 International Building Code. Applicable Standard references and design criteria are listed in Section 2 - Analysis Criteria.

Structural analysis prepared by: Alex Holcomb / WHW

Respectfully submitted by:

Aaron T. Rucker, P.E.
Structural Division Manager
919-661-6351
arucker@tepgroup.net



Electronic Copy

01/11/2022

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1) INTRODUCTION

The mount is an existing 14.0-ft 3-Sector Platform w/ Support Rail mount, mapped by Tower Engineering Professionals. The mount is installed at the 111.0 ft elevation on the 148.0± ft Monopole. The mount has been modified in the past to accommodate additional loading. Reinforcement consist of installation of a SitePro 1ULP12 Mount.

2) ANALYSIS CRITERIA

Building Code:	2018 IBC
TIA-222 Revision:	TIA-222-H
Risk Category:	II
Ultimate Wind Speed:	120 mph
Exposure Category:	C
Topographic Category at Base:	1.000
Topographic Category at Mount:	1.000
Ice Thickness:	1.00 in
Wind Speed with Ice:	50 mph
Seismic Design Category:	B
Seismic S_s:	0.206
Seismic S₁:	0.055
Live Loading Wind Speed:	30 mph
Live Loading at Mid/End-Points:	250 lb
Man Live Loading at Mount Pipes:	500 lb

Table 1 - Proposed Equipment Configuration

Mount Centerline (ft)	Antenna Centerline (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Mount / Modification Details
111.0	114.0	3	Ericsson	AIR 6419 B77G_CCIV2	Platform w/ Support Rail Mount
	112.0	3	CCI Antennas	DMP65R-BU6D	
		3	CCI Antennas	TPA65R-BU6D_CCIV2	
		3	Ericsson	RRUS 4426 B66	
		3	Ericsson	RRUS 4415 B25_CCIV2	
		3	Ericsson	RRUS 4449 B5/B12	
		3	Ericsson	RRUS 4478 B14_CCIV2	
		3	Ericsson	RRUS-32 B30	
		2	Raycap	DC6-48-60-18-8F	
	1	Raycap	DC9-48-60-24-8C-EV_CCIV2		
110.0	3	Ericsson	AIR 6449 B77D		

3) ANALYSIS PROCEDURE

Table 2 - Documents Provided

Document	Remarks	Reference	Source
Mount Mapping	Tower Engineering Professionals	9400126	CCIsites
Loading Application	AT&T Mobility	Order 586260 Rev. 0	CCIsites
RFDS	AT&T Mobility	4767156	CCIsites

3.1) Analysis Method

RISA-3D (Version 17.0.4), a commercially available analysis software package, was used to create a three-dimensional model of the mount and calculate member stresses for various loading cases. Selected output from the analysis is included in Appendix A and Appendix C.

TEP Mount Analysis Tool, a tool internally developed by TEP using Microsoft Excel, was used to calculate member loading for various load cases. Selected output from the analysis is included in Appendix B.

This analysis was performed in accordance with Crown Castle's ENG-SOW-10208 *Tower Mount Analysis (Revision D)*.

In addition, this analysis is in accordance with AT&T's *Mount Technical Guidance – Revision 16*.

3.2) Assumptions

- 1) The mount was built in accordance with the manufacturer's specifications.
- 2) The mount has been maintained in accordance with the manufacturer's specification.
- 3) The configuration of antennas, mounts and other appurtenances are as specified in Table 1. All mount components have been assumed to be in sufficient condition to carry their full design capacity for this analysis. Refer to the issued mapping for any structural and/or maintenance issues found during our site visit if applicable.
- 4) All mount components are in sufficient condition to carry their full design capacity.
- 5) TEP did not analyze the collar mount connection to the pole and assumes it to have sufficient structural capacity to transfer the applied forces from the mount to the tower.
- 6) All material grades used for this analysis, unless verified by mount manufacturer design, were assumed per AISC Table 2-4, 15th Edition. See RISA-3D output for confirmation on grades used in this analysis.

This analysis may be affected if any assumptions are not valid or have been made in error. Tower Engineering Professionals should be notified to determine the effect on the structural integrity of the antenna mounting system.

4) ANALYSIS RESULTS

Table 3 - Mount Component Stresses vs. Capacity (Platform w/ Support Rail Mount)

Notes	Component	Critical Member	Mount Centerline (ft)	% Capacity	Pass / Fail
1	Face Horizontals	FF-TH	111.0	51.8	Pass
1	Mount Pipe	MP-1	111.0	22.0	Pass
1	Internals	GSIP-1	111.0	26.3	Pass
1	Support Arm	SA-3	111.0	39.1	Pass
2	Connection Bolts	-	111.0	24.7	Pass
2	Connection Plate	-	111.0	19.2	Pass

Structure Rating (max from all components) =	51.8%
---	--------------

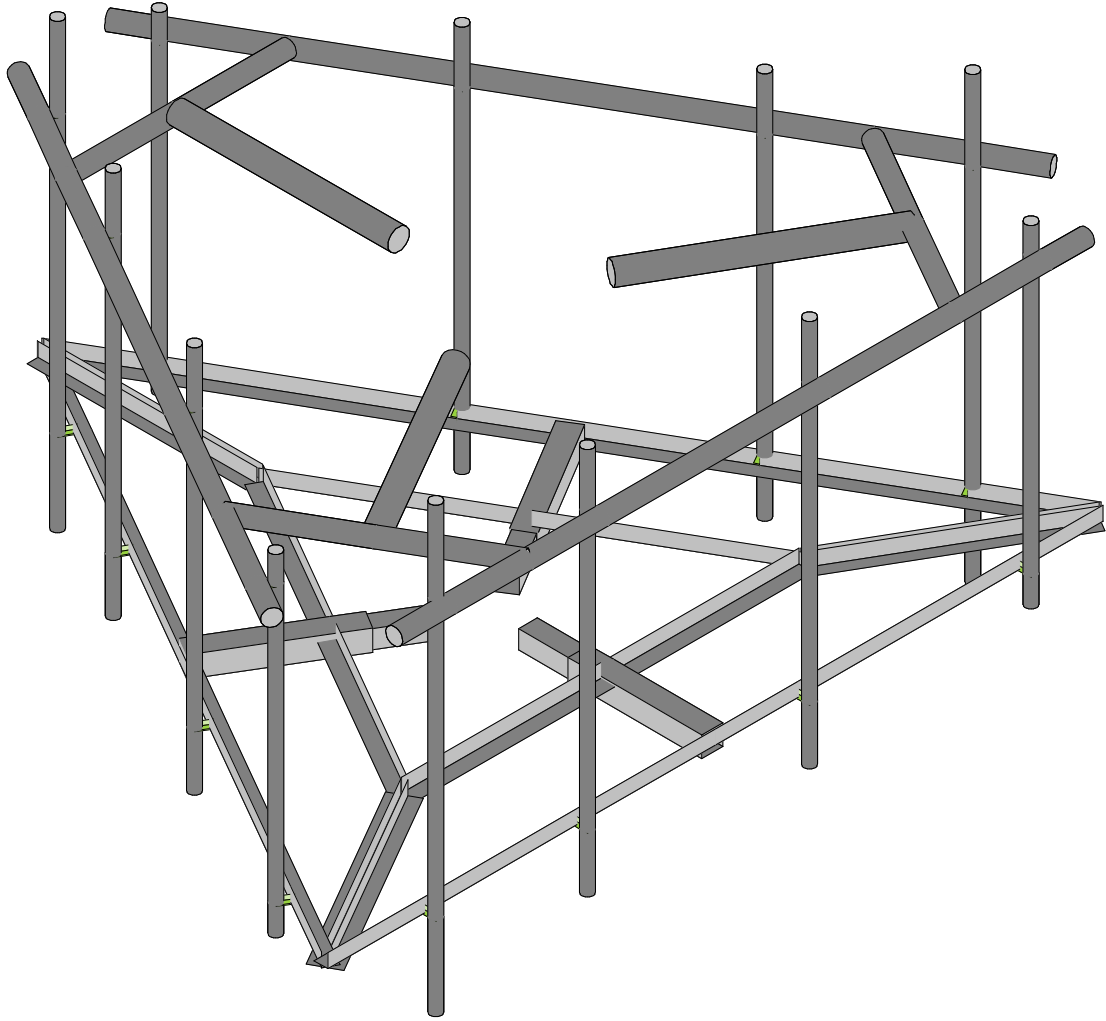
Notes:

- 1) See additional documentation in "Appendix C - Analysis Output" for calculations supporting the % capacity listed.
- 2) See additional documentation in "Appendix D – Additional Calculations" for calculations supporting the % capacity listed.
- 3) Rating per TIA-222-H, Section 15.5.

4.1) Recommendations

- 1) If the load differs from that described in Table 1 of this report or the provisions of this analysis are found to be invalid, another structural analysis should be performed.
- 2) The mount and its connection have sufficient capacity to carry the proposed loading configuration. No modifications are required at this time.

APPENDIX A
WIRE FRAME AND RENDERED MODELS



Envelope Only Solution

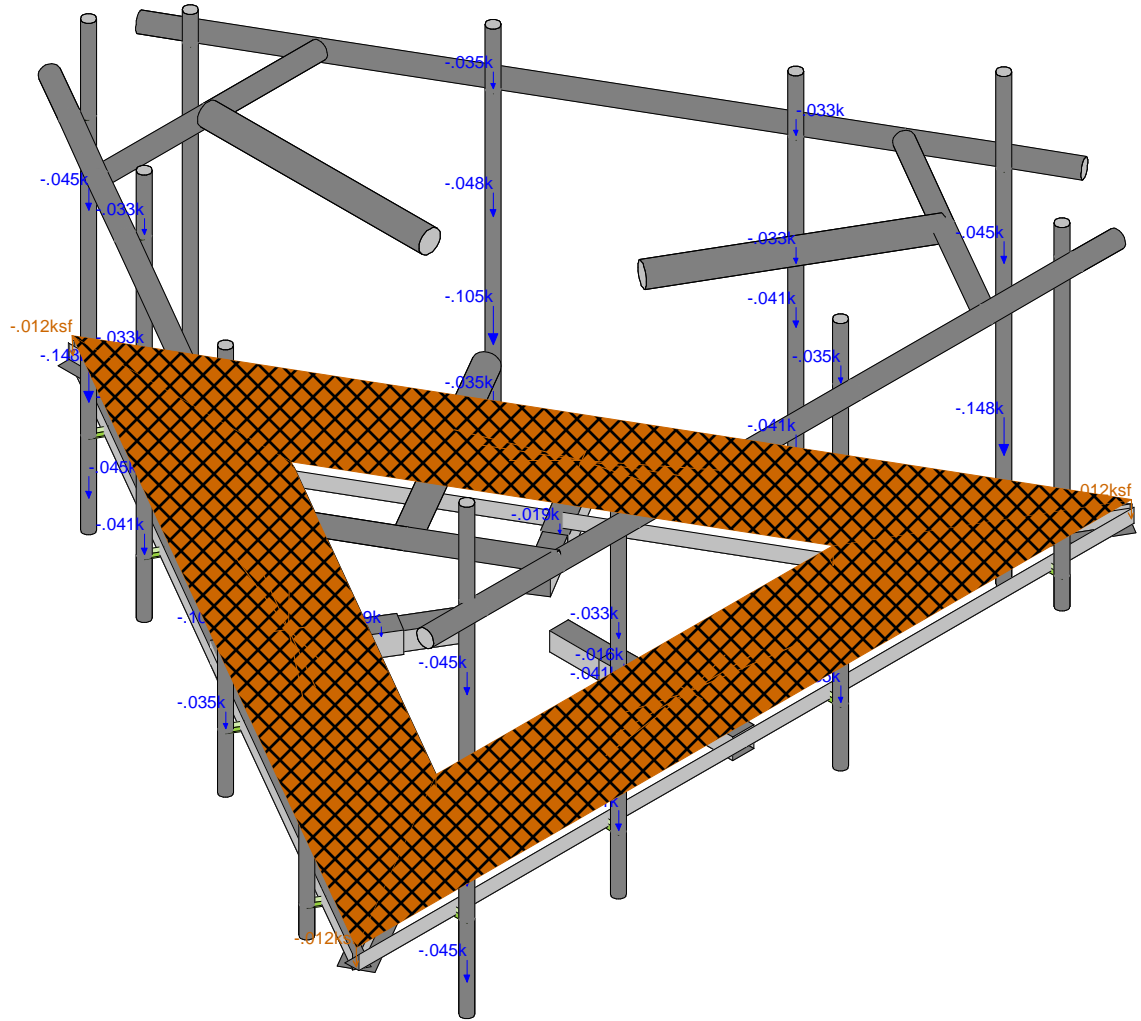
Tower Engineering Profess...
ARH
72875.638741

CCIsites BU No. 876310

SK - 1

Jan 10, 2022 at 4:02 PM

PL-9 Platform Mount (14ft Low Profil...



Loads: BLC 1, Dead
Envelope Only Solution

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72875.638741

CCIsites BU No. 876310

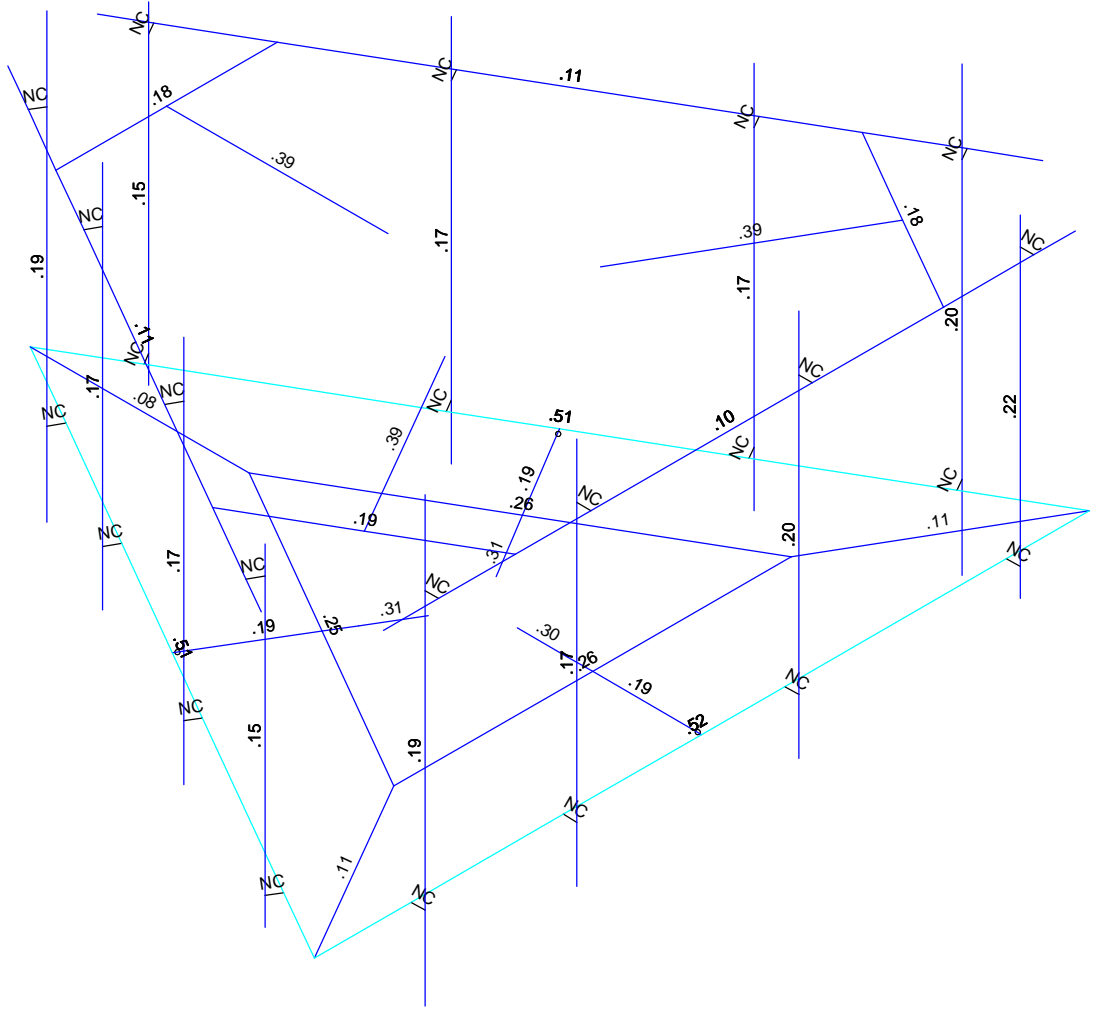
SK - 2

Jan 10, 2022 at 4:02 PM

PL-9 Platform Mount (14ft Low Profil...



Code Check	Color
No Calc	Black
> 1.0	Red
>= 1.0	Orange
>= 1.0	Yellow
>= 1.0	Green
>= 1.0	Blue
>= 1.0	Cyan
>= 1.0	Magenta



Member Code Checks Displayed (Enveloped)
Envelope Only Solution

Tower Engineering Profess...	CCIsites BU No. 876310	SK - 3
ARH		Jan 10, 2022 at 4:02 PM
72875.638741		PL-9 Platform Mount (14ft Low Profil...

APPENDIX B
SOFTWARE INPUT CALCULATIONS



Code Revisions:	TIA-222-H	IBC 2018
Tower Type:	Monopole	

Wind Inputs:		
Ult. Wind Velocity:	120.0	mph
Live Load Velocity:	30.0	mph
Ice Wind Velocity:	50.0	mph
Base Ice Thickness:	1.00	inches
Mount Centerline:	111.0	ft
Antenna Centerline:	112.0	ft
Exposure Category:	C	
Topo Category:	1	
Risk Category:	II	
Ground Elevation:	244	ft

Wind Calculations:		
K_{zt} :	1.000	Section 2.6.6
K_d :	0.950	
$K_{z-Mount}$:	1.294	Section 2.6.5.2
$K_{z-Antenna}$:	1.296	Section 2.6.5.2
K_{iz} :	1.129	Section 2.6.10
Ice Thickness:	1.129	inches - Section 2.6.10

Without Ice - (psf)	With Ice - (psf)
$(q_z G_h)_{Mount}$: 44.91	$(q_z G_h)_{Mount}$: 7.80
$(q_z G_h)_{Antenna}$: 44.99	$(q_z G_h)_{Antenna}$: 7.81

Seismic Code Revisions:	TIA-222-H
Seismic Risk Category:	II

Seismic Input		
S_{DS} :	0.220	Design Short Period Spectral Accel.
I_p :	1.0	Importance Factor
R_p :	2.0	Response Modification Factor
ρ :	1.0	
A_s :	1.0	Applification Factor - TIA-222-H Section 2.7.8.1
S_1 :	0.055	Spectral Acceleration at a Period of 1 Second

Seismic Design Force			
Cs:	0.110	kips/kip	TIA-H Sec 2.7.7.1.1
Cs-min:	0.030	kips/kip	TIA-H Sec 2.7.7.1.1



Antenna Loads are Calculated in Accordance with TIA-222-H

Azimuth is the absolute angle measured clockwise from RISA-3D global X-axis.

MFR	Model	Height (in)	Width (in)	Depth (in)	Wt. (lbs)	Azimuth°	Qty	Shape	Member Label	Distance from start node of the member		
										Location #1 (ft,%)	Location #2 (ft,%)	Location #3 (ft,%)
CCI ANTENNAS	TPA65R-BU6D_CCIV2	71.20	20.70	7.70	69.00	0.00	1	Flat	MP-2	1.00	6.00	
ERICSSON	4478 B14_CCIV2	18.10	13.40	8.26	59.40	90.00	1	Flat	MP-2	2.00		
ERICSSON	4415 B25_CCIV2	16.50	13.40	5.90	46.00	90.00	1	Flat	MP-2	2.00		
ERICSSON	4426 B66	14.96	13.19	5.80	48.40	90.00	1	Flat	MP-2	4.00		
ERICSSON	AIR 6419 B77G	27.95	15.75	6.68	66.20	0.00	1	Flat	MP-3	1.00	3.00	
ERICSSON	AIR 6449 B77D	30.39	15.87	8.07	81.60	0.00	1	Flat	MP-3	4.00	6.00	
CCI ANTENNAS	DMP65R-BU6D	71.20	20.70	7.70	89.30	0.00	1	Flat	MP-4	0.50	5.00	
ERICSSON	4449 B5/B12	17.90	13.90	9.44	71.00	90.00	1	Flat	MP-4	2.00		
ERICSSON	RRUS-32 B30	29.90	13.30	9.50	77.00	90.00	1	Flat	MP-4	2.00		
RAYCAP	DC9-48-60-24-8C-EV_CCIV2	31.40	10.24	10.24	16.00	0.00	1	Round	SA-1B	0.25		
CCI ANTENNAS	TPA65R-BU6D_CCIV2	71.20	20.70	7.70	69.00	120.00	1	Flat	MP-6	1.00	6.00	
ERICSSON	4478 B14_CCIV2	18.10	13.40	8.26	59.40	210.00	1	Flat	MP-6	2.00		
ERICSSON	4415 B25_CCIV2	16.50	13.40	5.90	46.00	210.00	1	Flat	MP-6	2.00		
ERICSSON	4426 B66	14.96	13.19	5.80	48.40	210.00	1	Flat	MP-6	4.00		
ERICSSON	AIR 6419 B77G	27.95	15.75	6.68	66.20	120.00	1	Flat	MP-7	1.00	3.00	
ERICSSON	AIR 6449 B77D	30.39	15.87	8.07	81.60	120.00	1	Flat	MP-7	4.00	6.00	
CCI ANTENNAS	DMP65R-BU6D	71.20	20.70	7.70	89.30	210.00	1	Flat	MP-8	0.50	5.00	
ERICSSON	4449 B5/B12	17.90	13.90	9.44	71.00	120.00	1	Flat	MP-8	2.00		
ERICSSON	RRUS-32 B30	29.90	13.30	9.50	77.00	120.00	1	Flat	MP-8	2.00		
RAYCAP	DC6-48-60-18-8F	24.00	11.00	11.00	18.90	120.00	1	Round	SA-2B	0.25		
CCI ANTENNAS	TPA65R-BU6D_CCIV2	71.20	20.70	7.70	69.00	20.00	1	Flat	MP-10	1.00	6.00	
ERICSSON	4478 B14_CCIV2	18.10	13.40	8.26	59.40	330.00	1	Flat	MP-10	2.00		
ERICSSON	4415 B25_CCIV2	16.50	13.40	5.90	46.00	330.00	1	Flat	MP-10	2.00		
ERICSSON	4426 B66	14.96	13.19	5.80	48.40	330.00	1	Flat	MP-10	4.00		
ERICSSON	AIR 6419 B77G	27.95	15.75	6.68	66.20	240.00	1	Flat	MP-11	1.00	3.00	
ERICSSON	AIR 6449 B77D	30.39	15.87	8.07	81.60	240.00	1	Flat	MP-11	4.00	6.00	
CCI ANTENNAS	DMP65R-BU6D	71.20	20.70	7.70	89.30	240.00	1	Flat	MP-12	0.50	5.00	
ERICSSON	4449 B5/B12	17.90	13.90	9.44	71.00	330.00	1	Flat	MP-12	2.00		
ERICSSON	RRUS-32 B30	29.90	13.30	9.50	77.00	330.00	1	Flat	MP-12	2.00		
RAYCAP	DC6-48-60-18-8F	24.00	11.00	11.00	18.90	240.00	1	Round	SA-3C	0.25		



CCI BU No. 876310
 TEP No. 72875.638741
 Analysis By: ARH 1/8/2022
 Checked By: WHW 1/8/2022

Member Forces are Calculated in Accordance with TIA-222-H

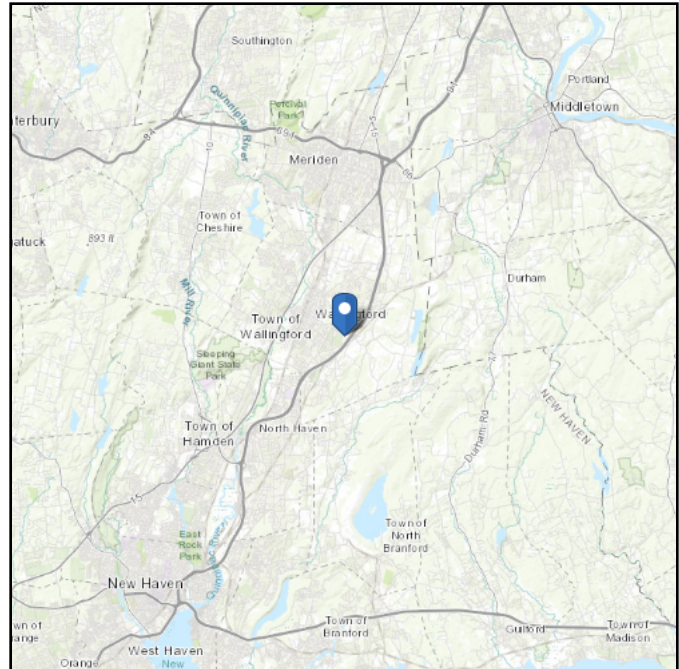
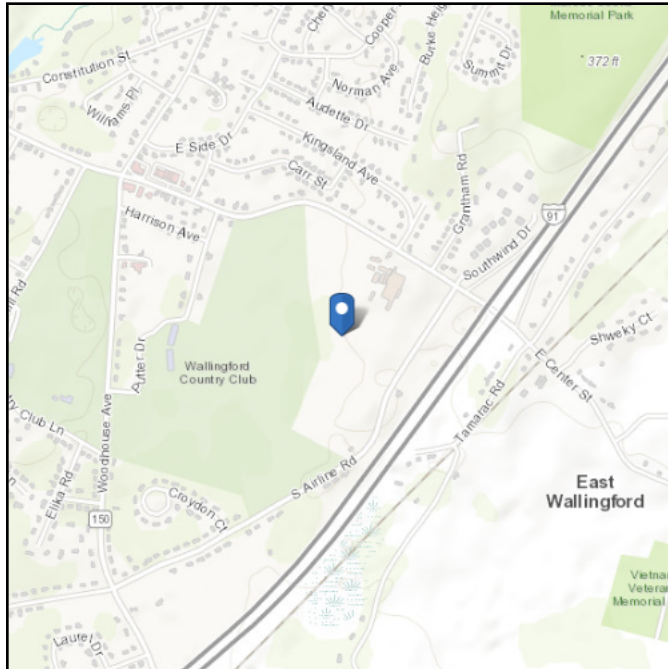
Member Name	Wind Proj. (in)	Length (in)	Shape	θ (°)	Perimeter (in)
GSI-1	3.000	47.33	Flat	-60.00	18.00
GSI-2	3.000	47.33	Flat	0.00	18.00
GSI-3	3.000	47.33	Flat	60.00	18.00
FF-TH	3.000	168.00	Flat	90.00	12.00
SF1-TH	3.000	168.00	Flat	-30.00	12.00
SF2-TH	3.000	168.00	Flat	30.00	12.00
GSIP-1	3.000	86.02	Flat	90.00	12.00
GSIP-2	3.000	86.02	Flat	-30.00	12.00
GSIP-3	3.000	86.02	Flat	30.00	12.00
SA-1A	4.000	11.00	Flat	0.00	16.00
SA-2A	4.000	11.00	Flat	58.97	16.00
SA-3A	4.000	11.00	Flat	-58.97	16.00
SA-1B	4.500	29.00	Flat	0.00	18.00
SA-2B	4.500	29.43	Flat	58.97	18.00
SA-3C	4.500	29.43	Flat	-58.97	18.00
MP-4	2.375	96.00	Round		7.46
MP-3	2.375	84.00	Round		7.46
MP-2	2.375	84.00	Round		7.46
MP-1	2.375	72.00	Round		7.46
MP-12	2.375	96.00	Round		7.46
MP-11	2.375	84.00	Round		7.46
MP-10	2.375	84.00	Round		7.46
MP-9	2.375	72.00	Round		7.46
MP-8	2.375	96.00	Round		7.46
MP-7	2.375	84.00	Round		7.46
MP-6	2.375	84.00	Round		7.46
MP-5	2.375	72.00	Round		7.46
FFTH	3.500	150.00	Round	90.00	11.00
SF1-TH_1	3.500	150.00	Round	30.00	11.00
SF2-TH_1	3.500	150.00	Round	-30.00	11.00
SA-1	4.500	48.00	Round	-60.00	14.14
SA-2	4.500	48.00	Round	60.00	14.14
SA-3	4.500	48.00	Round	0.00	14.14
GSI-1_1	3.500	48.00	Round	30.00	11.00
GSI-2_1	3.500	48.00	Round	-30.00	11.00
GSI-3_1	3.500	48.00	Round	90.00	11.00

ASCE 7 Hazards Report

Address:
No Address at This Location

Standard: ASCE/SEI 7-16
Risk Category: II
Soil Class: D - Default (see Section 11.4.3)

Elevation: 243.75 ft (NAVD 88)
Latitude: 41.443711
Longitude: -72.796267



Wind

Results:

Wind Speed	120 Vmph
10-year MRI	75 Vmph
25-year MRI	85 Vmph
50-year MRI	91 Vmph
100-year MRI	98 Vmph

Data Source: ASCE/SEI 7-16, Fig. 26.5-1B and Figs. CC.2-1–CC.2-4, and Section 26.5.2
Date Accessed: Mon Jan 10 2022

Value provided is 3-second gust wind speeds at 33 ft above ground for Exposure C Category, based on linear interpolation between contours. Wind speeds are interpolated in accordance with the 7-16 Standard. Wind speeds correspond to approximately a 7% probability of exceedance in 50 years (annual exceedance probability = 0.00143, MRI = 700 years).

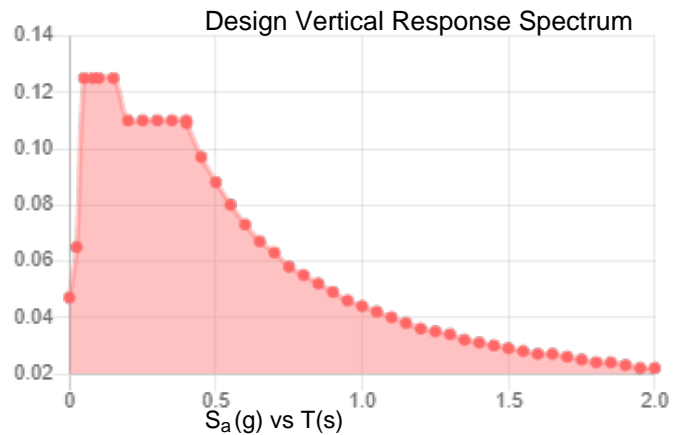
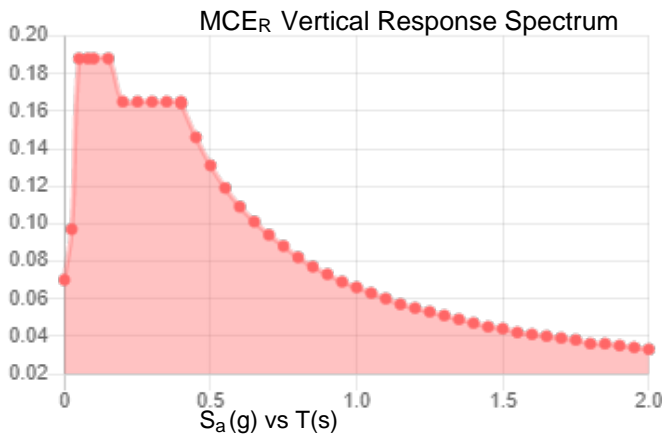
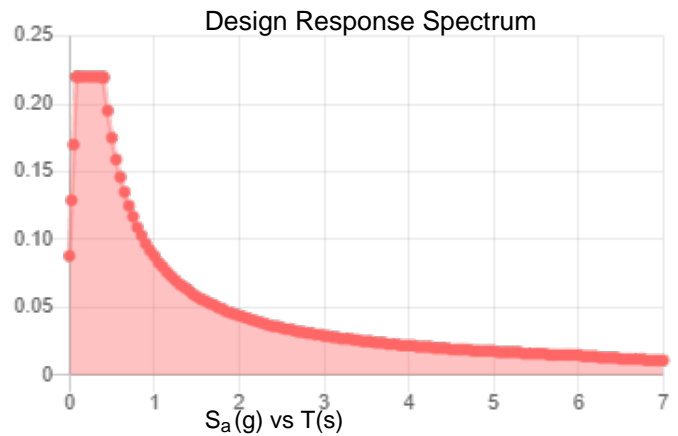
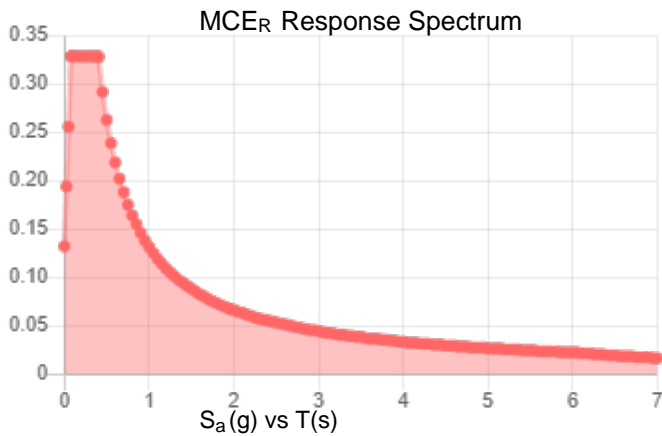
Site is in a hurricane-prone region as defined in ASCE/SEI 7-16 Section 26.2. Glazed openings need not be protected against wind-borne debris.

Site Soil Class: D - Default (see Section 11.4.3)

Results:

S_s :	0.206	S_{D1} :	0.088
S_1 :	0.055	T_L :	6
F_a :	1.6	PGA :	0.115
F_v :	2.4	PGA _M :	0.18
S_{MS} :	0.329	F_{PGA} :	1.57
S_{M1} :	0.131	I_e :	1
S_{DS} :	0.22	C_v :	0.712

Seismic Design Category B



Data Accessed: Mon Jan 10 2022

Date Source:

USGS Seismic Design Maps based on ASCE/SEI 7-16 and ASCE/SEI 7-16 Table 1.5-2. Additional data for site-specific ground motion procedures in accordance with ASCE/SEI 7-16 Ch. 21 are available from USGS.

Ice

Results:

Ice Thickness: 1.00 in.
Concurrent Temperature: 15 F
Gust Speed 50 mph

Data Source: Standard ASCE/SEI 7-16, Figs. 10-2 through 10-8

Date Accessed: Mon Jan 10 2022

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

Values provided are equivalent radial ice thicknesses due to freezing rain with concurrent 3-second gust speeds, for a 500-year mean recurrence interval, and temperatures concurrent with ice thicknesses due to freezing rain. Thicknesses for ice accretions caused by other sources shall be obtained from local meteorological studies. Ice thicknesses in exposed locations at elevations higher than the surrounding terrain and in valleys and gorges may exceed the mapped values.

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

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APPENDIX C
SOFTWARE ANALYSIS OUTPUT



Company : Tower Engineering Professionals, Inc.
 Designer : ARH
 Job Number : 72875.638741
 Model Name : CCsites BU No. 876310

Jan 10, 2022
 4:03 PM
 Checked By: WHW

(Global) Model Settings

Display Sections for Member Calcs	5
Max Internal Sections for Member Calcs	97
Include Shear Deformation?	Yes
Increase Nailing Capacity for Wind?	Yes
Include Warping?	Yes
Trans Load Btwn Intersecting Wood Wall?	Yes
Area Load Mesh (in^2)	144
Merge Tolerance (in)	.12
P-Delta Analysis Tolerance	0.50%
Include P-Delta for Walls?	Yes
Automatically Iterate Stiffness for Walls?	Yes
Max Iterations for Wall Stiffness	3
Gravity Acceleration (ft/sec^2)	32.2
Wall Mesh Size (in)	24
Eigensolution Convergence Tol. (1.E-)	4
Vertical Axis	Y
Global Member Orientation Plane	XZ
Static Solver	Sparse Accelerated
Dynamic Solver	Accelerated Solver

Hot Rolled Steel Code	AISC 15th(360-16): LRFD
Adjust Stiffness?	No
RISAConnection Code	AISC 14th(360-10): LRFD
Cold Formed Steel Code	AISI S100-12: LRFD
Wood Code	AWC NDS-15: ASD
Wood Temperature	< 100F
Concrete Code	ACI 318-14
Masonry Code	ACI 530-13: Strength
Aluminum Code	AA ADM1-15: ASD - Building
Stainless Steel Code	AISC 14th(360-10): LRFD
Adjust Stiffness?	No

Number of Shear Regions	4
Region Spacing Increment (in)	4
Biaxial Column Method	Exact Integration
Parme Beta Factor (PCA)	.65
Concrete Stress Block	Rectangular
Use Cracked Sections?	Yes
Use Cracked Sections Slab?	Yes
Bad Framing Warnings?	No
Unused Force Warnings?	Yes
Min 1 Bar Diam. Spacing?	No
Concrete Rebar Set	REBAR_SET_ASTMA615
Min % Steel for Column	1
Max % Steel for Column	8



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(Global) Model Settings, Continued

Seismic Code	ASCE 7-10
Seismic Base Elevation (ft)	Not Entered
Add Base Weight?	Yes
Ct X	.02
Ct Z	.02
T X (sec)	Not Entered
T Z (sec)	Not Entered
R X	3
R Z	3
Ct Exp. X	.75
Ct Exp. Z	.75
SD1	1
SDS	1
S1	1
TL (sec)	5
Risk Cat	I or II
Drift Cat	Other
Om Z	1
Om X	1
Cd Z	1
Cd X	1
Rho Z	1
Rho X	1

Hot Rolled Steel Properties

	Label	E [ksi]	G [ksi]	Nu	Therm (/1E...	Density[k/ft...	Yield[ksi]	Ry	Fu[ksi]	Rt
1	A992	29000	11154	.3	.65	.49	50	1.1	65	1.1
2	A36 Gr.36	29000	11154	.3	.65	.49	36	1.5	58	1.2
3	A572 Gr.50	29000	11154	.3	.65	.49	50	1.1	65	1.1
4	A500 Gr.B RND	29000	11154	.3	.65	.527	42	1.4	58	1.3
5	A500 Gr.B Rect	29000	11154	.3	.65	.527	46	1.4	58	1.3
6	A53 Gr.B	29000	11154	.3	.65	.49	35	1.6	60	1.2
7	A1085	29000	11154	.3	.65	.49	50	1.4	65	1.3
8	A500 Gr.42	29000	11154	.3	.65	.49	42	1.4	58	1.3
9	A500 Gr.46	29000	11154	.3	.65	.49	46	1.4	58	1.3
10	A53-B-35	29000	11154	.3	.65	.49	35	1.5	60	1.2
11	Grating	29000	11154	.3	.65	0	36	1.5	58	1.2

Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Design R...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
1	Face Horizontal	L3X3X4	Beam	Single An...	A36 Gr.36	Typical	1.44	1.23	1.23	.031
2	Internal	L3X3X4	Beam	Single An...	A36 Gr.36	Typical	1.44	1.23	1.23	.031
3	Support Arm A	HSS4X4X4	Beam	SquareTu...	A500 Gr.B Rect	Typical	3.37	7.8	7.8	12.8
4	Support Arm B	HSS4.5X4.5X3	Beam	SquareTu...	A500 Gr.B Rect	Typical	2.93	9.02	9.02	14.4
5	Corner Vertical	BPL7x7x4	Beam	Single An...	A36 Gr.36	Typical	40	149.233	149.233	105.813
6	Corner Internal	LL3x3x4x0	Beam	Double A...	A36 Gr.36	Typical	2.88	4.5	2.46	.063
7	Mount Pipe 2.0	PIPE 2.0	Column	Pipe	A53 Gr.B	Typical	1.02	.627	.627	1.25
8	Face Horiz	PIPE 3.0	None	None	A53-B-35	Typical	2.07	2.85	2.85	5.69
9	Mount Pipes	PIPE 2.0	None	None	A53-B-35	Typical	1.02	.627	.627	1.25
10	Support Arm	PIPE 4.0	None	None	A53-B-35	Typical	2.96	6.82	6.82	13.6



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Hot Rolled Steel Section Sets (Continued)

Label	Shape	Type	Design List	Material	Design R...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]	
11	Internal 1	PIPE 3.0	None	None	A53-B-35	Typical	2.07	2.85	2.85	5.69
12	Grating	PL12x1.5	None	None	Grating	Typical	18	3.375	216	12.437
13	Kicker	LL2.5x2.5x3x3	None	None	A36 Gr.36	Typical	1.8	2.46	1.07	.023
14	Support Vert	PIPE 2.0	None	None	A53-B-35	Typical	1.02	.627	.627	1.25

Cold Formed Steel Section Sets

Label	Shape	Type	Design List	Material	Design Rul...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]	
1	RRH Mount	P1000 CFA	Beam	None	A653 SS ...	Typical	.554	.178	.358	.002
2	CF1A	1.5CU1.25X035	Beam	CU	A570 Gr.33	Typical	.131	.022	.052	5.4e-5

Material Takeoff

Material	Size	Pieces	Length[ft]	Weight[K]
1	General			
2	RIGID	24	6	0
3	Total General	24	6	0
4				
5	Hot Rolled Steel			
6	A36 Gr.36	L3X3X4	63.5	.311
7	A36 Gr.36	LL3x3x4x0	11.8	.116
8	A500 Gr.B Rect	HSS4.5X4.5X3	3	.079
9	A500 Gr.B Rect	HSS4X4X4	3	.034
10	A53 Gr.B	PIPE 2.0	12	.84
11	A53-B-35	PIPE 3.0	6	.349
12	A53-B-35	PIPE 4.0	3	.121
13	Total HR Steel	36	230.9	1.301

Joint Boundary Conditions

Joint Label	X [k/in]	Y [k/in]	Z [k/in]	X Rot.[k-ft/rad]	Y Rot.[k-ft/rad]	Z Rot.[k-ft/rad]
1	SA1-A	Reaction	Reaction	Reaction	Reaction	Reaction
2	SA3-A	Reaction	Reaction	Reaction	Reaction	Reaction
3	SA2-A	Reaction	Reaction	Reaction	Reaction	Reaction
4	SA1-1	Reaction	Reaction	Reaction	Reaction	Reaction
5	SA2-1	Reaction	Reaction	Reaction	Reaction	Reaction
6	SA3-1	Reaction	Reaction	Reaction	Reaction	Reaction

Member Primary Data

Label	I Joint	J Joint	K Joint	Rotate(d...	Section/Shape	Type	Design List	Material	Design Rul...
1	GSI-1	GSIP1	SF1-1	180	Corner Internal	Beam	Double Angle	A36 Gr.36	Typical
2	GSI-2	GSIP3	SF2-1	180	Corner Internal	Beam	Double Angle	A36 Gr.36	Typical
3	GSI-3	GSIP2	FF-1	180	Corner Internal	Beam	Double Angle	A36 Gr.36	Typical
4	FF-TH	FF-1	SF1-1		Face Horizontal	Beam	Single Angle	A36 Gr.36	Typical
5	SF1-TH	SF1-1	SF2-1		Face Horizontal	Beam	Single Angle	A36 Gr.36	Typical
6	SF2-TH	SF2-1	FF-1		Face Horizontal	Beam	Single Angle	A36 Gr.36	Typical
7	GSIP-1	GSIP1	GSIP2		Internal	Beam	Single Angle	A36 Gr.36	Typical
8	GSIP-2	GSIP3	GSIP1		Internal	Beam	Single Angle	A36 Gr.36	Typical
9	GSIP-3	GSIP2	GSIP3		Internal	Beam	Single Angle	A36 Gr.36	Typical



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Member Primary Data (Continued)

Label	I Joint	J Joint	K Joint	Rotate(d...	Section/Shape	Type	Design List	Material	Design Rul...
10	SA-1A	SA1-A	SA1-B		Support Arm A	Beam	SquareTube	A500 Gr...	Typical
11	SA-2A	SA2-A	SA2-B		Support Arm A	Beam	SquareTube	A500 Gr...	Typical
12	SA-3A	SA3-A	SA3-B		Support Arm A	Beam	SquareTube	A500 Gr...	Typical
13	SA-1B	SA1-B	SA1-C		Support Arm B	Beam	SquareTube	A500 Gr...	Typical
14	SA-2B	SA2-B	SA2-C		Support Arm B	Beam	SquareTube	A500 Gr...	Typical
15	SA-3C	SA3-B	SA3-C		Support Arm B	Beam	SquareTube	A500 Gr...	Typical
16	M26	N30	N22		RIGID	None	None	RIGID	Typical
17	M27	N32	N24		RIGID	None	None	RIGID	Typical
18	M28	N34	N26		RIGID	None	None	RIGID	Typical
19	M29	N36	N28		RIGID	None	None	RIGID	Typical
20	MP-4	N30A	N28A		Mount Pipe 2.0	Column	Pipe	A53 Gr.B	Typical
21	MP-3	N34A	N33		Mount Pipe 2.0	Column	Pipe	A53 Gr.B	Typical
22	MP-2	N32A	N31		Mount Pipe 2.0	Column	Pipe	A53 Gr.B	Typical
23	MP-1	N29	N27		Mount Pipe 2.0	Column	Pipe	A53 Gr.B	Typical
24	M24	N39	N35		RIGID	None	None	RIGID	Typical
25	M25	N40	N36A		RIGID	None	None	RIGID	Typical
26	M26A	N41	N37		RIGID	None	None	RIGID	Typical
27	M27A	N42	N38		RIGID	None	None	RIGID	Typical
28	MP-12	N46	N44		Mount Pipe 2.0	Column	Pipe	A53 Gr.B	Typical
29	MP-11	N50	N49		Mount Pipe 2.0	Column	Pipe	A53 Gr.B	Typical
30	MP-10	N48	N47		Mount Pipe 2.0	Column	Pipe	A53 Gr.B	Typical
31	MP-9	N45	N43		Mount Pipe 2.0	Column	Pipe	A53 Gr.B	Typical
32	M32	N55	N51		RIGID	None	None	RIGID	Typical
33	M33	N56	N52		RIGID	None	None	RIGID	Typical
34	M34	N57	N53		RIGID	None	None	RIGID	Typical
35	M35	N58	N54		RIGID	None	None	RIGID	Typical
36	MP-8	N62	N60		Mount Pipe 2.0	Column	Pipe	A53 Gr.B	Typical
37	MP-7	N66	N65		Mount Pipe 2.0	Column	Pipe	A53 Gr.B	Typical
38	MP-6	N64	N63		Mount Pipe 2.0	Column	Pipe	A53 Gr.B	Typical
39	MP-5	N61	N59		Mount Pipe 2.0	Column	Pipe	A53 Gr.B	Typical
40	FFTH	FF3	FF4		Face Horiz	None	None	A53-B-35	Typical
41	SF1-TH 1	N103	N104		Face Horiz	None	None	A53-B-35	Typical
42	SF2-TH 1	N123	N124		Face Horiz	None	None	A53-B-35	Typical
43	SA-1	SA1-1	N147		Support Arm	None	None	A53-B-35	Typical
44	SA-2	SA2-1	N148		Support Arm	None	None	A53-B-35	Typical
45	SA-3	SA3-1	FF6		Support Arm	None	None	A53-B-35	Typical
46	GSI-1 1	N146	N141		Internal 1	None	None	A53-B-35	Typical
47	GSI-2 1	N142	N143		Internal 1	None	None	A53-B-35	Typical
48	GSI-3 1	N144	N145		Internal 1	None	None	A53-B-35	Typical
49	M22	X58	N154		RIGID	None	None	RIGID	Typical
50	M23	X59	N155		RIGID	None	None	RIGID	Typical
51	M24 1	X60	N156		RIGID	None	None	RIGID	Typical
52	M25 1	X61	N157		RIGID	None	None	RIGID	Typical
53	M26 1	N164	X62		RIGID	None	None	RIGID	Typical
54	M27 1	N166	X63		RIGID	None	None	RIGID	Typical
55	M28 1	N168	X64		RIGID	None	None	RIGID	Typical
56	M29 1	N169	X65		RIGID	None	None	RIGID	Typical
57	M30	N160	X70		RIGID	None	None	RIGID	Typical
58	M31	N161	X71		RIGID	None	None	RIGID	Typical
59	M32 1	N162	X72		RIGID	None	None	RIGID	Typical
60	M33 1	N163	X73		RIGID	None	None	RIGID	Typical



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Member Advanced Data

Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
1 GSI-1						Yes				None
2 GSI-2						Yes				None
3 GSI-3						Yes				None
4 FF-TH						Yes				None
5 SF1-TH						Yes				None
6 SF2-TH						Yes				None
7 GSIP-1						Yes				None
8 GSIP-2						Yes				None
9 GSIP-3						Yes				None
10 SA-1A						Yes				None
11 SA-2A						Yes				None
12 SA-3A						Yes				None
13 SA-1B		BenPIN				Yes				None
14 SA-2B		BenPIN				Yes				None
15 SA-3C		BenPIN				Yes				None
16 M26						Yes	** NA **			None
17 M27						Yes	** NA **			None
18 M28						Yes	** NA **			None
19 M29						Yes	** NA **			None
20 MP-4						Yes	** NA **			None
21 MP-3						Yes	** NA **			None
22 MP-2						Yes	** NA **			None
23 MP-1						Yes	** NA **			None
24 M24						Yes	** NA **			None
25 M25						Yes	** NA **			None
26 M26A						Yes	** NA **			None
27 M27A						Yes	** NA **			None
28 MP-12						Yes	** NA **			None
29 MP-11						Yes	** NA **			None
30 MP-10						Yes	** NA **			None
31 MP-9						Yes	** NA **			None
32 M32						Yes	** NA **			None
33 M33						Yes	** NA **			None
34 M34						Yes	** NA **			None
35 M35						Yes	** NA **			None
36 MP-8						Yes	** NA **			None
37 MP-7						Yes	** NA **			None
38 MP-6						Yes	** NA **			None
39 MP-5						Yes	** NA **			None
40 FFTH						Yes	** NA **			None
41 SF1-TH_1						Yes	** NA **			None
42 SF2-TH_1						Yes	** NA **			None
43 SA-1						Yes	** NA **			None
44 SA-2						Yes	** NA **			None
45 SA-3						Yes	** NA **			None
46 GSI-1_1						Yes	** NA **			None
47 GSI-2_1						Yes	** NA **			None
48 GSI-3_1						Yes	** NA **			None
49 M22						Yes	** NA **			None
50 M23						Yes	** NA **			None
51 M24_1						Yes	** NA **			None



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Member Advanced Data (Continued)

Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
52 M25_1						Yes	** NA **			None
53 M26_1						Yes	** NA **			None
54 M27_1						Yes	** NA **			None
55 M28_1						Yes	** NA **			None
56 M29_1						Yes	** NA **			None
57 M30						Yes	** NA **			None
58 M31						Yes	** NA **			None
59 M32_1						Yes	** NA **			None
60 M33_1						Yes	** NA **			None

Hot Rolled Steel Design Parameters

Label	Shape	Length[ft]	Lbyy[ft]	Lbzz[ft]	Lcomp top[...]	Lcomp bot[...]	L-torq...	Kyy	Kzz	Cb	Functi...
1 GSI-1	Corner Internal	3.944						1	1		Lateral
2 GSI-2	Corner Internal	3.944						1	1		Lateral
3 GSI-3	Corner Internal	3.944						1	1		Lateral
4 FF-TH	Face Horizontal	14	7	7				1	1		Lateral
5 SF1-TH	Face Horizontal	14	7	7				1	1		Lateral
6 SF2-TH	Face Horizontal	14	7	7				1	1		Lateral
7 GSIP-1	Internal	7.168	3.583	3.583				1	1		Lateral
8 GSIP-2	Internal	7.168	3.583	3.583				1	1		Lateral
9 GSIP-3	Internal	7.168	3.583	3.583				1	1		Lateral
10 SA-1A	Support Arm A	.917						1	1		Lateral
11 SA-2A	Support Arm A	.917						1	1		Lateral
12 SA-3A	Support Arm A	.917						1	1		Lateral
13 SA-1B	Support Arm B	2.417						1	1		Lateral
14 SA-2B	Support Arm B	2.452						1	1		Lateral
15 SA-3C	Support Arm B	2.452						1	1		Lateral
16 MP-4	Mount Pipe 2.0	8	Segment	Segment				2.1	2.1		Lateral
17 MP-3	Mount Pipe 2.0	7	Segment	Segment				2.1	2.1		Lateral
18 MP-2	Mount Pipe 2.0	7	Segment	Segment				2.1	2.1		Lateral
19 MP-1	Mount Pipe 2.0	6	Segment	Segment				2.1	2.1		Lateral
20 MP-12	Mount Pipe 2.0	8	Segment	Segment				2.1	2.1		Lateral
21 MP-11	Mount Pipe 2.0	7	Segment	Segment				2.1	2.1		Lateral
22 MP-10	Mount Pipe 2.0	7	Segment	Segment				2.1	2.1		Lateral
23 MP-9	Mount Pipe 2.0	6	Segment	Segment				2.1	2.1		Lateral
24 MP-8	Mount Pipe 2.0	8	Segment	Segment				2.1	2.1		Lateral
25 MP-7	Mount Pipe 2.0	7	Segment	Segment				2.1	2.1		Lateral
26 MP-6	Mount Pipe 2.0	7	Segment	Segment				2.1	2.1		Lateral
27 MP-5	Mount Pipe 2.0	6	Segment	Segment				2.1	2.1		Lateral
28 FFTH	Face Horiz	12.5	7.5					2.1	2.1		Lateral
29 SF1-TH_1	Face Horiz	12.5	7.5					2.1	2.1		Lateral
30 SF2-TH_1	Face Horiz	12.5	7.5					2.1	2.1		Lateral
31 SA-1	Support Arm	4						2.1	2.1		Lateral
32 SA-2	Support Arm	4						2.1	2.1		Lateral
33 SA-3	Support Arm	4						2.1	2.1		Lateral
34 GSI-1_1	Internal_1	4	2					1	1		Lateral
35 GSI-2_1	Internal_1	4	2					1	1		Lateral
36 GSI-3_1	Internal_1	4	2					1	1		Lateral



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Cold Formed Steel Design Parameters

Label	Shape	Lengt...	Lbyy[ft]	Lbzz[ft]	Lcomp t...	Lcomp ...	L-torque...	Kyy	Kzz	Cm-...	Cm-...	Cb	R	a[ft]	y sw...	z sw...
No Data to Print ...																

Basic Load Cases

BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed Area(Memb...	Surface(P...
1 Dead	None		-1			42	3	
2 0 Wind - No Ice	None					42	36	
3 30 Wind - No Ice	None					84	72	
4 45 Wind - No Ice	None					84	72	
5 60 Wind - No Ice	None					84	72	
6 90 Wind - No Ice	None					42	36	
7 120 Wind - No Ice	None					84	72	
8 135 Wind - No Ice	None					84	72	
9 150 Wind - No Ice	None					84	72	
10 180 Wind - No Ice	None					42	36	
11 210 Wind - No Ice	None					84	72	
12 225 Wind - No Ice	None					84	72	
13 240 Wind - No Ice	None					84	72	
14 270 Wind - No Ice	None					42	36	
15 300 Wind - No Ice	None					84	72	
16 315 Wind - No Ice	None					84	72	
17 330 Wind - No Ice	None					84	72	
18 Ice Weight	None					42	36	3
19 0 Wind - Ice	None					42	36	
20 30 Wind - Ice	None					84	72	
21 45 Wind - Ice	None					84	72	
22 60 Wind - Ice	None					84	72	
23 90 Wind - Ice	None					42	36	
24 120 Wind - Ice	None					84	72	
25 135 Wind - Ice	None					84	72	
26 150 Wind - Ice	None					84	72	
27 180 Wind - Ice	None					42	36	
28 210 Wind - Ice	None					84	72	
29 225 Wind - Ice	None					84	72	
30 240 Wind - Ice	None					84	72	
31 270 Wind - Ice	None					42	36	
32 300 Wind - Ice	None					84	72	
33 315 Wind - Ice	None					84	72	
34 330 Wind - Ice	None					84	72	
35 Lm	None					1		
36 Lv	None					1		
37 Seismic Load X	ELX	-1				42		
38 Seismic Load Z	ELZ			-1		42		
39 BLC 1 Transient Area...	None						32	
40 BLC 18 Transient Are...	None						32	



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Load Combinations

Descrpti...	Solve	PDelta	SRSS	B...	Fac..B...	Fac..B...	Fac..B...	Fac..B...	Fac..B...	Fac..B...	Fac..B...	Fac..B...	Fac..B...	Fac..B...	Fac..B...	Fac..B...
1 1.4D	Yes	Y		1	1.4											
2 0.9D+1...	Yes	Y		1	.9	2	1									
3 0.9D+1....	Yes	Y		1	.9	3	1									
4 0.9D+1....	Yes	Y		1	.9	4	1									
5 0.9D+1....	Yes	Y		1	.9	5	1									
6 0.9D+1....	Yes	Y		1	.9	6	1									
7 0.9D+1....	Yes	Y		1	.9	7	1									
8 0.9D+1....	Yes	Y		1	.9	8	1									
9 0.9D+1....	Yes	Y		1	.9	9	1									
10 0.9D+1....	Yes	Y		1	.9	10	1									
11 0.9D+1....	Yes	Y		1	.9	11	1									
12 0.9D+1....	Yes	Y		1	.9	12	1									
13 0.9D+1....	Yes	Y		1	.9	13	1									
14 0.9D+1....	Yes	Y		1	.9	14	1									
15 0.9D+1....	Yes	Y		1	.9	15	1									
16 0.9D+1....	Yes	Y		1	.9	16	1									
17 0.9D+1....	Yes	Y		1	.9	17	1									
18 1.2D+1....	Yes	Y		1	1.2	2	1									
19 1.2D+1....	Yes	Y		1	1.2	3	1									
20 1.2D+1....	Yes	Y		1	1.2	4	1									
21 1.2D+1....	Yes	Y		1	1.2	5	1									
22 1.2D+1....	Yes	Y		1	1.2	6	1									
23 1.2D+1....	Yes	Y		1	1.2	7	1									
24 1.2D+1....	Yes	Y		1	1.2	8	1									
25 1.2D+1....	Yes	Y		1	1.2	9	1									
26 1.2D+1....	Yes	Y		1	1.2	10	1									
27 1.2D+1....	Yes	Y		1	1.2	11	1									
28 1.2D+1....	Yes	Y		1	1.2	12	1									
29 1.2D+1....	Yes	Y		1	1.2	13	1									
30 1.2D+1....	Yes	Y		1	1.2	14	1									
31 1.2D+1....	Yes	Y		1	1.2	15	1									
32 1.2D+1....	Yes	Y		1	1.2	16	1									
33 1.2D+1....	Yes	Y		1	1.2	17	1									
34 1.2D+1....	Yes	Y		1	1.2	18	1	19	1							
35 1.2D+1....	Yes	Y		1	1.2	18	1	20	1							
36 1.2D+1....	Yes	Y		1	1.2	18	1	21	1							
37 1.2D+1....	Yes	Y		1	1.2	18	1	22	1							
38 1.2D+1....	Yes	Y		1	1.2	18	1	23	1							
39 1.2D+1....	Yes	Y		1	1.2	18	1	24	1							
40 1.2D+1....	Yes	Y		1	1.2	18	1	25	1							
41 1.2D+1....	Yes	Y		1	1.2	18	1	26	1							
42 1.2D+1....	Yes	Y		1	1.2	18	1	27	1							
43 1.2D+1....	Yes	Y		1	1.2	18	1	28	1							
44 1.2D+1....	Yes	Y		1	1.2	18	1	29	1							
45 1.2D+1....	Yes	Y		1	1.2	18	1	30	1							
46 1.2D+1....	Yes	Y		1	1.2	18	1	31	1							
47 1.2D+1....	Yes	Y		1	1.2	18	1	32	1							
48 1.2D+1....	Yes	Y		1	1.2	18	1	33	1							
49 1.2D+1....	Yes	Y		1	1.2	18	1	34	1							
50 1.2D+1....	Yes	Y		36	1.5	1	1.2									
51 1.2D+1....	Yes	Y		1	1.2	2	.063	35	1.5							



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 Designer : ARH
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Load Combinations (Continued)

Descripti...	Solve	PDelta	SRSS	B...	Fac..B...	Fac..B...	Fac..B...	Fac..B...	Fac..B...	Fac..B...	Fac..B...	Fac..B...	Fac..B...
52	1.2D+1....	Yes	Y		1	1.2	3	.063	35	1.5			
53	1.2D+1....	Yes	Y		1	1.2	4	.063	35	1.5			
54	1.2D+1....	Yes	Y		1	1.2	5	.063	35	1.5			
55	1.2D+1....	Yes	Y		1	1.2	6	.063	35	1.5			
56	1.2D+1....	Yes	Y		1	1.2	7	.063	35	1.5			
57	1.2D+1....	Yes	Y		1	1.2	8	.063	35	1.5			
58	1.2D+1....	Yes	Y		1	1.2	9	.063	35	1.5			
59	1.2D+1....	Yes	Y		1	1.2	10	.063	35	1.5			
60	1.2D+1....	Yes	Y		1	1.2	11	.063	35	1.5			
61	1.2D+1....	Yes	Y		1	1.2	12	.063	35	1.5			
62	1.2D+1....	Yes	Y		1	1.2	13	.063	35	1.5			
63	1.2D+1....	Yes	Y		1	1.2	14	.063	35	1.5			
64	1.2D+1....	Yes	Y		1	1.2	15	.063	35	1.5			
65	1.2D+1....	Yes	Y		1	1.2	16	.063	35	1.5			
66	1.2D+1....	Yes	Y		1	1.2	17	.063	35	1.5			
67	(1.2+0.2...	Yes	Y		1	1.2	E...	.11	0				
68	(1.2+0.2...	Yes	Y		1	1.2	E...	.095	ELZ	.055			
69	(1.2+0.2...	Yes	Y		1	1.2	E...	.078	ELZ	.078			
70	(1.2+0.2...	Yes	Y		1	1.2	E...	.055	ELZ	.095			
71	(1.2+0.2...	Yes	Y		1	1.2	0		ELZ	.11			
72	(1.2+0.2...	Yes	Y		1	1.2	E...	.055	ELZ	.095			
73	(1.2+0.2...	Yes	Y		1	1.2	E...	.078	ELZ	.078			
74	(1.2+0.2...	Yes	Y		1	1.2	E...	.095	ELZ	.055			
75	(1.2+0.2...	Yes	Y		1	1.2	E...	.11	0				
76	(1.2+0.2...	Yes	Y		1	1.2	E...	.095	ELZ	.055			
77	(1.2+0.2...	Yes	Y		1	1.2	E...	.078	ELZ	.078			
78	(1.2+0.2...	Yes	Y		1	1.2	E...	.055	ELZ	.095			
79	(1.2+0.2...	Yes	Y		1	1.2	0		ELZ	.11			
80	(1.2+0.2...	Yes	Y		1	1.2	E...	.055	ELZ	.095			
81	(1.2+0.2...	Yes	Y		1	1.2	E...	.078	ELZ	.078			
82	(1.2+0.2...	Yes	Y		1	1.2	E...	.095	ELZ	.055			
83	(0.9-0.2...	Yes	Y		1	.856	E...	.11	0				
84	(0.9-0.2...	Yes	Y		1	.856	E...	.095	ELZ	.055			
85	(0.9-0.2...	Yes	Y		1	.856	E...	.078	ELZ	.078			
86	(0.9-0.2...	Yes	Y		1	.856	E...	.055	ELZ	.095			
87	(0.9-0.2...	Yes	Y		1	.856	0		ELZ	.11			
88	(0.9-0.2...	Yes	Y		1	.856	E...	.055	ELZ	.095			
89	(0.9-0.2...	Yes	Y		1	.856	E...	.078	ELZ	.078			
90	(0.9-0.2...	Yes	Y		1	.856	E...	.095	ELZ	.055			
91	(0.9-0.2...	Yes	Y		1	.856	E...	.11	0				
92	(0.9-0.2...	Yes	Y		1	.856	E...	.095	ELZ	.055			
93	(0.9-0.2...	Yes	Y		1	.856	E...	.078	ELZ	.078			
94	(0.9-0.2...	Yes	Y		1	.856	E...	.055	ELZ	.095			
95	(0.9-0.2...	Yes	Y		1	.856	0		ELZ	.11			
96	(0.9-0.2...	Yes	Y		1	.856	E...	.055	ELZ	.095			
97	(0.9-0.2...	Yes	Y		1	.856	E...	.078	ELZ	.078			
98	(0.9-0.2...	Yes	Y		1	.856	E...	.095	ELZ	.055			



Company : Tower Engineering Professionals, Inc.
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Joint Loads and Enforced Displacements (BLC 35 : Lm)

	Joint Label	L,D,M	Direction	Magnitude[(k,k-ft), (in,rad), (k*s^2/f...
1	N22	L	Y	-.5

Joint Loads and Enforced Displacements (BLC 36 : Lv)

	Joint Label	L,D,M	Direction	Magnitude[(k,k-ft), (in,rad), (k*s^2/f...
1	FF-1	L	Y	-.25

Member Point Loads (BLC 1 : Dead)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-2	Y	-0.35	1
2	MP-2	Y	-0.59	2
3	MP-2	Y	-0.46	2
4	MP-2	Y	-0.48	4
5	MP-3	Y	-0.33	1
6	MP-3	Y	-0.41	4
7	MP-4	Y	-0.45	.5
8	MP-4	Y	-0.71	2
9	MP-4	Y	-0.77	2
10	SA-1B	Y	-0.16	.25
11	MP-6	Y	-0.35	1
12	MP-6	Y	-0.59	2
13	MP-6	Y	-0.46	2
14	MP-6	Y	-0.48	4
15	MP-7	Y	-0.33	1
16	MP-7	Y	-0.41	4
17	MP-8	Y	-0.45	.5
18	MP-8	Y	-0.71	2
19	MP-8	Y	-0.77	2
20	SA-2B	Y	-0.19	.25
21	MP-10	Y	-0.35	1
22	MP-10	Y	-0.59	2
23	MP-10	Y	-0.46	2
24	MP-10	Y	-0.48	4
25	MP-11	Y	-0.33	1
26	MP-11	Y	-0.41	4
27	MP-12	Y	-0.45	.5
28	MP-12	Y	-0.71	2
29	MP-12	Y	-0.77	2
30	SA-3C	Y	-0.19	.25
31	MP-2	Y	-0.35	6
32	MP-3	Y	-0.33	3
33	MP-3	Y	-0.41	6
34	MP-4	Y	-0.45	5
35	MP-6	Y	-0.35	6
36	MP-7	Y	-0.33	3
37	MP-7	Y	-0.41	6
38	MP-8	Y	-0.45	5
39	MP-10	Y	-0.35	6
40	MP-11	Y	-0.33	3
41	MP-11	Y	-0.41	6



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

	Member Label	Direction	Magnitude[k, k-ft]	Location[ft, %]
42	MP-12	Y	-0.45	5

Member Point Loads (BLC 2 : 0 Wind - No Ice)

	Member Label	Direction	Magnitude[k, k-ft]	Location[ft, %]
1	MP-2	X	-.242	1
2	MP-2	X	-.05	2
3	MP-2	X	-.033	2
4	MP-2	X	-.029	4
5	MP-3	X	-.094	1
6	MP-3	X	-.074	4
7	MP-4	X	-.242	.5
8	MP-4	X	-.057	2
9	MP-4	X	-.098	2
10	SA-1B	X	-.046	.25
11	MP-6	X	-.128	1
12	MP-6	X	-.074	2
13	MP-6	X	-.064	2
14	MP-6	X	-.057	4
15	MP-7	X	-.052	1
16	MP-7	X	-.045	4
17	MP-8	X	-.204	.5
18	MP-8	X	-.064	2
19	MP-8	X	-.107	2
20	SA-2B	X	-.037	.25
21	MP-10	X	-.224	1
22	MP-10	X	-.074	2
23	MP-10	X	-.064	2
24	MP-10	X	-.057	4
25	MP-11	X	-.052	1
26	MP-11	X	-.045	4
27	MP-12	X	-.128	.5
28	MP-12	X	-.077	2
29	MP-12	X	-.125	2
30	SA-3C	X	-.037	.25
31	MP-2	X	-.242	6
32	MP-3	X	-.094	3
33	MP-3	X	-.074	6
34	MP-4	X	-.242	5
35	MP-6	X	-.128	6
36	MP-7	X	-.052	3
37	MP-7	X	-.045	6
38	MP-8	X	-.204	5
39	MP-10	X	-.224	6
40	MP-11	X	-.052	3
41	MP-11	X	-.045	6
42	MP-12	X	-.128	5

Member Point Loads (BLC 3 : 30 Wind - No Ice)

	Member Label	Direction	Magnitude[k, k-ft]	Location[ft, %]
1	MP-2	X	-.177	1
2	MP-2	X	-.05	2



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Member Point Loads (BLC 3 : 30 Wind - No Ice) (Continued)

	Member Label	Direction	Magnitude[k, k-ft]	Location[ft, %]
3	MP-2	X	-.038	2
4	MP-2	X	-.033	4
5	MP-3	X	-.069	1
6	MP-3	X	-.055	4
7	MP-4	X	-.177	.5
8	MP-4	X	-.055	2
9	MP-4	X	-.093	2
10	SA-1B	X	-.04	.25
11	MP-6	X	-.079	1
12	MP-6	X	-.071	2
13	MP-6	X	-.065	2
14	MP-6	X	-.058	4
15	MP-7	X	-.033	1
16	MP-7	X	-.03	4
17	MP-8	X	-.209	.5
18	MP-8	X	-.049	2
19	MP-8	X	-.085	2
20	SA-2B	X	-.032	.25
21	MP-10	X	-.205	1
22	MP-10	X	-.05	2
23	MP-10	X	-.038	2
24	MP-10	X	-.033	4
25	MP-11	X	-.069	1
26	MP-11	X	-.055	4
27	MP-12	X	-.177	.5
28	MP-12	X	-.055	2
29	MP-12	X	-.093	2
30	SA-3C	X	-.032	.25
31	MP-2	X	-.177	6
32	MP-3	X	-.069	3
33	MP-3	X	-.055	6
34	MP-4	X	-.177	5
35	MP-6	X	-.079	6
36	MP-7	X	-.033	3
37	MP-7	X	-.03	6
38	MP-8	X	-.209	5
39	MP-10	X	-.205	6
40	MP-11	X	-.069	3
41	MP-11	X	-.055	6
42	MP-12	X	-.177	5
43	MP-2	Z	-.102	1
44	MP-2	Z	-.029	2
45	MP-2	Z	-.022	2
46	MP-2	Z	-.019	4
47	MP-3	Z	-.04	1
48	MP-3	Z	-.032	4
49	MP-4	Z	-.102	.5
50	MP-4	Z	-.032	2
51	MP-4	Z	-.054	2
52	SA-1B	Z	-.023	.25
53	MP-6	Z	-.045	1
54	MP-6	Z	-.041	2



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Member Point Loads (BLC 3 : 30 Wind - No Ice) (Continued)

	Member Label	Direction	Magnitude[k, k-ft]	Location[ft, %]
55	MP-6	Z	-037	2
56	MP-6	Z	-033	4
57	MP-7	Z	-019	1
58	MP-7	Z	-017	4
59	MP-8	Z	-121	.5
60	MP-8	Z	-029	2
61	MP-8	Z	-049	2
62	SA-2B	Z	-019	.25
63	MP-10	Z	-119	1
64	MP-10	Z	-029	2
65	MP-10	Z	-022	2
66	MP-10	Z	-019	4
67	MP-11	Z	-.04	1
68	MP-11	Z	-032	4
69	MP-12	Z	-102	.5
70	MP-12	Z	-032	2
71	MP-12	Z	-054	2
72	SA-3C	Z	-019	.25
73	MP-2	Z	-102	6
74	MP-3	Z	-.04	3
75	MP-3	Z	-032	6
76	MP-4	Z	-102	5
77	MP-6	Z	-045	6
78	MP-7	Z	-019	3
79	MP-7	Z	-017	6
80	MP-8	Z	-121	5
81	MP-10	Z	-119	6
82	MP-11	Z	-.04	3
83	MP-11	Z	-032	6
84	MP-12	Z	-102	5

Member Point Loads (BLC 4 : 45 Wind - No Ice)

	Member Label	Direction	Magnitude[k, k-ft]	Location[ft, %]
1	MP-2	X	-117	1
2	MP-2	X	-047	2
3	MP-2	X	-038	2
4	MP-2	X	-034	4
5	MP-3	X	-047	1
6	MP-3	X	-038	4
7	MP-4	X	-117	.5
8	MP-4	X	-.05	2
9	MP-4	X	-082	2
10	SA-1B	X	-033	.25
11	MP-6	X	-071	1
12	MP-6	X	-056	2
13	MP-6	X	-051	2
14	MP-6	X	-045	4
15	MP-7	X	-029	1
16	MP-7	X	-026	4
17	MP-8	X	-164	.5
18	MP-8	X	-042	2



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Member Point Loads (BLC 4 : 45 Wind - No Ice) (Continued)

	Member Label	Direction	Magnitude[k, k-ft]	Location[ft, %]
19	MP-8	X	-071	2
20	SA-2B	X	-026	.25
21	MP-10	X	-152	1
22	MP-10	X	-037	2
23	MP-10	X	-025	2
24	MP-10	X	-023	4
25	MP-11	X	-064	1
26	MP-11	X	-.05	4
27	MP-12	X	-164	.5
28	MP-12	X	-042	2
29	MP-12	X	-071	2
30	SA-3C	X	-026	.25
31	MP-2	X	-117	6
32	MP-3	X	-047	3
33	MP-3	X	-038	6
34	MP-4	X	-117	5
35	MP-6	X	-071	6
36	MP-7	X	-029	3
37	MP-7	X	-026	6
38	MP-8	X	-164	5
39	MP-10	X	-152	6
40	MP-11	X	-064	3
41	MP-11	X	-.05	6
42	MP-12	X	-164	5
43	MP-2	Z	-117	1
44	MP-2	Z	-047	2
45	MP-2	Z	-038	2
46	MP-2	Z	-034	4
47	MP-3	Z	-047	1
48	MP-3	Z	-038	4
49	MP-4	Z	-117	.5
50	MP-4	Z	-.05	2
51	MP-4	Z	-082	2
52	SA-1B	Z	-033	.25
53	MP-6	Z	-071	1
54	MP-6	Z	-056	2
55	MP-6	Z	-051	2
56	MP-6	Z	-045	4
57	MP-7	Z	-029	1
58	MP-7	Z	-026	4
59	MP-8	Z	-164	.5
60	MP-8	Z	-042	2
61	MP-8	Z	-071	2
62	SA-2B	Z	-026	.25
63	MP-10	Z	-152	1
64	MP-10	Z	-037	2
65	MP-10	Z	-025	2
66	MP-10	Z	-023	4
67	MP-11	Z	-064	1
68	MP-11	Z	-.05	4
69	MP-12	Z	-164	.5
70	MP-12	Z	-042	2



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Member Point Loads (BLC 4 : 45 Wind - No Ice) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
71	MP-12	Z	-0.71	2
72	SA-3C	Z	-0.26	.25
73	MP-2	Z	-0.117	6
74	MP-3	Z	-0.47	3
75	MP-3	Z	-0.38	6
76	MP-4	Z	-0.117	5
77	MP-6	Z	-0.71	6
78	MP-7	Z	-0.29	3
79	MP-7	Z	-0.26	6
80	MP-8	Z	-0.164	5
81	MP-10	Z	-0.152	6
82	MP-11	Z	-0.64	3
83	MP-11	Z	-0.05	6
84	MP-12	Z	-0.164	5

Member Point Loads (BLC 5 : 60 Wind - No Ice)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-2	X	-0.64	1
2	MP-2	X	-0.37	2
3	MP-2	X	-0.32	2
4	MP-2	X	-0.29	4
5	MP-3	X	-0.26	1
6	MP-3	X	-0.22	4
7	MP-4	X	-0.64	.5
8	MP-4	X	-0.39	2
9	MP-4	X	-0.63	2
10	SA-1B	X	-0.23	.25
11	MP-6	X	-0.64	1
12	MP-6	X	-0.37	2
13	MP-6	X	-0.32	2
14	MP-6	X	-0.29	4
15	MP-7	X	-0.26	1
16	MP-7	X	-0.22	4
17	MP-8	X	-0.102	.5
18	MP-8	X	-0.32	2
19	MP-8	X	-0.54	2
20	SA-2B	X	-0.19	.25
21	MP-10	X	-0.09	1
22	MP-10	X	-0.25	2
23	MP-10	X	-0.17	2
24	MP-10	X	-0.15	4
25	MP-11	X	-0.47	1
26	MP-11	X	-0.37	4
27	MP-12	X	-0.121	.5
28	MP-12	X	-0.29	2
29	MP-12	X	-0.49	2
30	SA-3C	X	-0.19	.25
31	MP-2	X	-0.64	6
32	MP-3	X	-0.26	3
33	MP-3	X	-0.22	6
34	MP-4	X	-0.64	5



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Member Point Loads (BLC 5 : 60 Wind - No Ice) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
35	MP-6	X	-0.64	6
36	MP-7	X	-0.26	3
37	MP-7	X	-0.22	6
38	MP-8	X	-0.102	5
39	MP-10	X	-0.09	6
40	MP-11	X	-0.47	3
41	MP-11	X	-0.37	6
42	MP-12	X	-0.121	5
43	MP-2	Z	-0.111	1
44	MP-2	Z	-0.64	2
45	MP-2	Z	-0.56	2
46	MP-2	Z	-0.05	4
47	MP-3	Z	-0.45	1
48	MP-3	Z	-0.39	4
49	MP-4	Z	-0.111	.5
50	MP-4	Z	-0.67	2
51	MP-4	Z	-0.108	2
52	SA-1B	Z	-0.04	.25
53	MP-6	Z	-0.111	1
54	MP-6	Z	-0.64	2
55	MP-6	Z	-0.56	2
56	MP-6	Z	-0.05	4
57	MP-7	Z	-0.45	1
58	MP-7	Z	-0.39	4
59	MP-8	Z	-0.177	.5
60	MP-8	Z	-0.55	2
61	MP-8	Z	-0.93	2
62	SA-2B	Z	-0.32	.25
63	MP-10	Z	-0.155	1
64	MP-10	Z	-0.44	2
65	MP-10	Z	-0.29	2
66	MP-10	Z	-0.25	4
67	MP-11	Z	-0.81	1
68	MP-11	Z	-0.64	4
69	MP-12	Z	-0.209	.5
70	MP-12	Z	-0.49	2
71	MP-12	Z	-0.85	2
72	SA-3C	Z	-0.32	.25
73	MP-2	Z	-0.111	6
74	MP-3	Z	-0.45	3
75	MP-3	Z	-0.39	6
76	MP-4	Z	-0.111	5
77	MP-6	Z	-0.111	6
78	MP-7	Z	-0.45	3
79	MP-7	Z	-0.39	6
80	MP-8	Z	-0.177	5
81	MP-10	Z	-0.155	6
82	MP-11	Z	-0.81	3
83	MP-11	Z	-0.64	6
84	MP-12	Z	-0.209	5



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 Designer : ARH
 Job Number : 72875.638741
 Model Name : CCIsites BU No. 876310

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Member Point Loads (BLC 6 : 90 Wind - No Ice)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
1	MP-2	Z	-0.91	1
2	MP-2	Z	-0.82	2
3	MP-2	Z	-0.75	2
4	MP-2	Z	-0.67	4
5	MP-3	Z	-0.38	1
6	MP-3	Z	-0.35	4
7	MP-4	Z	-0.91	.5
8	MP-4	Z	-0.84	2
9	MP-4	Z	-1.34	2
10	SA-1B	Z	-0.46	.25
11	MP-6	Z	-0.24	1
12	MP-6	Z	-0.58	2
13	MP-6	Z	-0.44	2
14	MP-6	Z	-0.39	4
15	MP-7	Z	-0.08	1
16	MP-7	Z	-0.64	4
17	MP-8	Z	-1.28	.5
18	MP-8	Z	-0.77	2
19	MP-8	Z	-1.25	2
20	SA-2B	Z	-0.37	.25
21	MP-10	Z	-1.08	1
22	MP-10	Z	-0.58	2
23	MP-10	Z	-0.44	2
24	MP-10	Z	-0.39	4
25	MP-11	Z	-0.08	1
26	MP-11	Z	-0.64	4
27	MP-12	Z	-0.24	.5
28	MP-12	Z	-0.64	2
29	MP-12	Z	-1.07	2
30	SA-3C	Z	-0.37	.25
31	MP-2	Z	-0.91	6
32	MP-3	Z	-0.38	3
33	MP-3	Z	-0.35	6
34	MP-4	Z	-0.91	5
35	MP-6	Z	-0.24	6
36	MP-7	Z	-0.08	3
37	MP-7	Z	-0.64	6
38	MP-8	Z	-1.28	5
39	MP-10	Z	-1.08	6
40	MP-11	Z	-0.08	3
41	MP-11	Z	-0.64	6
42	MP-12	Z	-0.24	5

Member Point Loads (BLC 7 : 120 Wind - No Ice)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
1	MP-2	X	.064	1
2	MP-2	X	.037	2
3	MP-2	X	.032	2
4	MP-2	X	.029	4
5	MP-3	X	.026	1
6	MP-3	X	.022	4



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Member Point Loads (BLC 7 : 120 Wind - No Ice) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
7	MP-4	X	.064	.5
8	MP-4	X	.039	2
9	MP-4	X	.063	2
10	SA-1B	X	.023	.25
11	MP-6	X	.121	1
12	MP-6	X	.025	2
13	MP-6	X	.017	2
14	MP-6	X	.015	4
15	MP-7	X	.047	1
16	MP-7	X	.037	4
17	MP-8	X	.045	.5
18	MP-8	X	.042	2
19	MP-8	X	.067	2
20	SA-2B	X	.019	.25
21	MP-10	X	.048	1
22	MP-10	X	.037	2
23	MP-10	X	.032	2
24	MP-10	X	.029	4
25	MP-11	X	.026	1
26	MP-11	X	.022	4
27	MP-12	X	.064	.5
28	MP-12	X	.039	2
29	MP-12	X	.063	2
30	SA-3C	X	.019	.25
31	MP-2	X	.064	6
32	MP-3	X	.026	3
33	MP-3	X	.022	6
34	MP-4	X	.064	5
35	MP-6	X	.121	6
36	MP-7	X	.047	3
37	MP-7	X	.037	6
38	MP-8	X	.045	5
39	MP-10	X	.048	6
40	MP-11	X	.026	3
41	MP-11	X	.022	6
42	MP-12	X	.064	5
43	MP-2	Z	-1.11	1
44	MP-2	Z	-0.64	2
45	MP-2	Z	-0.56	2
46	MP-2	Z	-0.05	4
47	MP-3	Z	-0.45	1
48	MP-3	Z	-0.39	4
49	MP-4	Z	-1.11	.5
50	MP-4	Z	-0.67	2
51	MP-4	Z	-1.08	2
52	SA-1B	Z	-.04	.25
53	MP-6	Z	-0.209	1
54	MP-6	Z	-0.44	2
55	MP-6	Z	-0.29	2
56	MP-6	Z	-0.25	4
57	MP-7	Z	-0.81	1
58	MP-7	Z	-0.64	4



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Member Point Loads (BLC 7 : 120 Wind - No Ice) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
59	MP-8	Z	-.079	.5
60	MP-8	Z	-.073	2
61	MP-8	Z	-.116	2
62	SA-2B	Z	-.032	.25
63	MP-10	Z	-.082	1
64	MP-10	Z	-.064	2
65	MP-10	Z	-.056	2
66	MP-10	Z	-.05	4
67	MP-11	Z	-.045	1
68	MP-11	Z	-.039	4
69	MP-12	Z	-.111	.5
70	MP-12	Z	-.067	2
71	MP-12	Z	-.108	2
72	SA-3C	Z	-.032	.25
73	MP-2	Z	-.111	6
74	MP-3	Z	-.045	3
75	MP-3	Z	-.039	6
76	MP-4	Z	-.111	5
77	MP-6	Z	-.209	6
78	MP-7	Z	-.081	3
79	MP-7	Z	-.064	6
80	MP-8	Z	-.079	5
81	MP-10	Z	-.082	6
82	MP-11	Z	-.045	3
83	MP-11	Z	-.039	6
84	MP-12	Z	-.111	5

Member Point Loads (BLC 8 : 135 Wind - No Ice)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-2	X	.117	1
2	MP-2	X	.047	2
3	MP-2	X	.038	2
4	MP-2	X	.034	4
5	MP-3	X	.047	1
6	MP-3	X	.038	4
7	MP-4	X	.117	.5
8	MP-4	X	.05	2
9	MP-4	X	.082	2
10	SA-1B	X	.033	.25
11	MP-6	X	.164	1
12	MP-6	X	.037	2
13	MP-6	X	.025	2
14	MP-6	X	.023	4
15	MP-7	X	.064	1
16	MP-7	X	.05	4
17	MP-8	X	.071	.5
18	MP-8	X	.058	2
19	MP-8	X	.093	2
20	SA-2B	X	.026	.25
21	MP-10	X	.083	1
22	MP-10	X	.056	2



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Member Point Loads (BLC 8 : 135 Wind - No Ice) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
23	MP-10	X	.051	2
24	MP-10	X	.045	4
25	MP-11	X	.029	1
26	MP-11	X	.026	4
27	MP-12	X	.071	.5
28	MP-12	X	.058	2
29	MP-12	X	.093	2
30	SA-3C	X	.026	.25
31	MP-2	X	.117	6
32	MP-3	X	.047	3
33	MP-3	X	.038	6
34	MP-4	X	.117	5
35	MP-6	X	.164	6
36	MP-7	X	.064	3
37	MP-7	X	.05	6
38	MP-8	X	.071	5
39	MP-10	X	.083	6
40	MP-11	X	.029	3
41	MP-11	X	.026	6
42	MP-12	X	.071	5
43	MP-2	Z	-.117	1
44	MP-2	Z	-.047	2
45	MP-2	Z	-.038	2
46	MP-2	Z	-.034	4
47	MP-3	Z	-.047	1
48	MP-3	Z	-.038	4
49	MP-4	Z	-.117	.5
50	MP-4	Z	-.05	2
51	MP-4	Z	-.082	2
52	SA-1B	Z	-.033	.25
53	MP-6	Z	-.164	1
54	MP-6	Z	-.037	2
55	MP-6	Z	-.025	2
56	MP-6	Z	-.023	4
57	MP-7	Z	-.064	1
58	MP-7	Z	-.05	4
59	MP-8	Z	-.071	.5
60	MP-8	Z	-.058	2
61	MP-8	Z	-.093	2
62	SA-2B	Z	-.026	.25
63	MP-10	Z	-.083	1
64	MP-10	Z	-.056	2
65	MP-10	Z	-.051	2
66	MP-10	Z	-.045	4
67	MP-11	Z	-.029	1
68	MP-11	Z	-.026	4
69	MP-12	Z	-.071	.5
70	MP-12	Z	-.058	2
71	MP-12	Z	-.093	2
72	SA-3C	Z	-.026	.25
73	MP-2	Z	-.117	6
74	MP-3	Z	-.047	3



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Member Point Loads (BLC 8 : 135 Wind - No Ice) (Continued)

	Member Label	Direction	Magnitude[k, k-ft]	Location[ft, %]
75	MP-3	Z	-.038	6
76	MP-4	Z	-.117	5
77	MP-6	Z	-.164	6
78	MP-7	Z	-.064	3
79	MP-7	Z	-.05	6
80	MP-8	Z	-.071	5
81	MP-10	Z	-.083	6
82	MP-11	Z	-.029	3
83	MP-11	Z	-.026	6
84	MP-12	Z	-.071	5

Member Point Loads (BLC 9 : 150 Wind - No Ice)

	Member Label	Direction	Magnitude[k, k-ft]	Location[ft, %]
1	MP-2	X	.177	1
2	MP-2	X	.05	2
3	MP-2	X	.038	2
4	MP-2	X	.033	4
5	MP-3	X	.069	1
6	MP-3	X	.055	4
7	MP-4	X	.177	.5
8	MP-4	X	.055	2
9	MP-4	X	.093	2
10	SA-1B	X	.04	.25
11	MP-6	X	.177	1
12	MP-6	X	.05	2
13	MP-6	X	.038	2
14	MP-6	X	.033	4
15	MP-7	X	.069	1
16	MP-7	X	.055	4
17	MP-8	X	.111	.5
18	MP-8	X	.067	2
19	MP-8	X	.108	2
20	SA-2B	X	.032	.25
21	MP-10	X	.133	1
22	MP-10	X	.071	2
23	MP-10	X	.065	2
24	MP-10	X	.058	4
25	MP-11	X	.033	1
26	MP-11	X	.03	4
27	MP-12	X	.079	.5
28	MP-12	X	.073	2
29	MP-12	X	.116	2
30	SA-3C	X	.032	.25
31	MP-2	X	.177	6
32	MP-3	X	.069	3
33	MP-3	X	.055	6
34	MP-4	X	.177	5
35	MP-6	X	.177	6
36	MP-7	X	.069	3
37	MP-7	X	.055	6
38	MP-8	X	.111	5



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Member Point Loads (BLC 9 : 150 Wind - No Ice) (Continued)

	Member Label	Direction	Magnitude[k, k-ft]	Location[ft, %]
39	MP-10	X	.133	6
40	MP-11	X	.033	3
41	MP-11	X	.03	6
42	MP-12	X	.079	5
43	MP-2	Z	-.102	1
44	MP-2	Z	-.029	2
45	MP-2	Z	-.022	2
46	MP-2	Z	-.019	4
47	MP-3	Z	-.04	1
48	MP-3	Z	-.032	4
49	MP-4	Z	-.102	.5
50	MP-4	Z	-.032	2
51	MP-4	Z	-.054	2
52	SA-1B	Z	-.023	.25
53	MP-6	Z	-.102	1
54	MP-6	Z	-.029	2
55	MP-6	Z	-.022	2
56	MP-6	Z	-.019	4
57	MP-7	Z	-.04	1
58	MP-7	Z	-.032	4
59	MP-8	Z	-.064	.5
60	MP-8	Z	-.039	2
61	MP-8	Z	-.063	2
62	SA-2B	Z	-.019	.25
63	MP-10	Z	-.077	1
64	MP-10	Z	-.041	2
65	MP-10	Z	-.037	2
66	MP-10	Z	-.033	4
67	MP-11	Z	-.019	1
68	MP-11	Z	-.017	4
69	MP-12	Z	-.045	.5
70	MP-12	Z	-.042	2
71	MP-12	Z	-.067	2
72	SA-3C	Z	-.019	.25
73	MP-2	Z	-.102	6
74	MP-3	Z	-.04	3
75	MP-3	Z	-.032	6
76	MP-4	Z	-.102	5
77	MP-6	Z	-.102	6
78	MP-7	Z	-.04	3
79	MP-7	Z	-.032	6
80	MP-8	Z	-.064	5
81	MP-10	Z	-.077	6
82	MP-11	Z	-.019	3
83	MP-11	Z	-.017	6
84	MP-12	Z	-.045	5

Member Point Loads (BLC 10 : 180 Wind - No Ice)

	Member Label	Direction	Magnitude[k, k-ft]	Location[ft, %]
1	MP-2	X	.242	1
2	MP-2	X	.05	2



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Member Point Loads (BLC 10 : 180 Wind - No Ice) (Continued)

	Member Label	Direction	Magnitude[k, k-ft]	Location[ft, %]
3	MP-2	X	.033	2
4	MP-2	X	.029	4
5	MP-3	X	.094	1
6	MP-3	X	.074	4
7	MP-4	X	.242	.5
8	MP-4	X	.057	2
9	MP-4	X	.098	2
10	SA-1B	X	.046	.25
11	MP-6	X	.128	1
12	MP-6	X	.074	2
13	MP-6	X	.064	2
14	MP-6	X	.057	4
15	MP-7	X	.052	1
16	MP-7	X	.045	4
17	MP-8	X	.204	.5
18	MP-8	X	.064	2
19	MP-8	X	.107	2
20	SA-2B	X	.037	.25
21	MP-10	X	.224	1
22	MP-10	X	.074	2
23	MP-10	X	.064	2
24	MP-10	X	.057	4
25	MP-11	X	.052	1
26	MP-11	X	.045	4
27	MP-12	X	.128	.5
28	MP-12	X	.077	2
29	MP-12	X	.125	2
30	SA-3C	X	.037	.25
31	MP-2	X	.242	6
32	MP-3	X	.094	3
33	MP-3	X	.074	6
34	MP-4	X	.242	5
35	MP-6	X	.128	6
36	MP-7	X	.052	3
37	MP-7	X	.045	6
38	MP-8	X	.204	5
39	MP-10	X	.224	6
40	MP-11	X	.052	3
41	MP-11	X	.045	6
42	MP-12	X	.128	5

Member Point Loads (BLC 11 : 210 Wind - No Ice)

	Member Label	Direction	Magnitude[k, k-ft]	Location[ft, %]
1	MP-2	X	.177	1
2	MP-2	X	.05	2
3	MP-2	X	.038	2
4	MP-2	X	.033	4
5	MP-3	X	.069	1
6	MP-3	X	.055	4
7	MP-4	X	.177	.5
8	MP-4	X	.055	2



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Member Point Loads (BLC 11 : 210 Wind - No Ice) (Continued)

	Member Label	Direction	Magnitude[k, k-ft]	Location[ft, %]
9	MP-4	X	.093	2
10	SA-1B	X	.04	.25
11	MP-6	X	.079	1
12	MP-6	X	.071	2
13	MP-6	X	.065	2
14	MP-6	X	.058	4
15	MP-7	X	.033	1
16	MP-7	X	.03	4
17	MP-8	X	.209	.5
18	MP-8	X	.049	2
19	MP-8	X	.085	2
20	SA-2B	X	.032	.25
21	MP-10	X	.205	1
22	MP-10	X	.05	2
23	MP-10	X	.038	2
24	MP-10	X	.033	4
25	MP-11	X	.069	1
26	MP-11	X	.055	4
27	MP-12	X	.177	.5
28	MP-12	X	.055	2
29	MP-12	X	.093	2
30	SA-3C	X	.032	.25
31	MP-2	X	.177	6
32	MP-3	X	.069	3
33	MP-3	X	.055	6
34	MP-4	X	.177	5
35	MP-6	X	.079	6
36	MP-7	X	.033	3
37	MP-7	X	.03	6
38	MP-8	X	.209	5
39	MP-10	X	.205	6
40	MP-11	X	.069	3
41	MP-11	X	.055	6
42	MP-12	X	.177	5
43	MP-2	Z	.102	1
44	MP-2	Z	.029	2
45	MP-2	Z	.022	2
46	MP-2	Z	.019	4
47	MP-3	Z	.04	1
48	MP-3	Z	.032	4
49	MP-4	Z	.102	.5
50	MP-4	Z	.032	2
51	MP-4	Z	.054	2
52	SA-1B	Z	.023	.25
53	MP-6	Z	.045	1
54	MP-6	Z	.041	2
55	MP-6	Z	.037	2
56	MP-6	Z	.033	4
57	MP-7	Z	.019	1
58	MP-7	Z	.017	4
59	MP-8	Z	.121	.5
60	MP-8	Z	.029	2



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Member Point Loads (BLC 11 : 210 Wind - No Ice) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
61	MP-8	Z	.049	2
62	SA-2B	Z	.019	.25
63	MP-10	Z	.119	1
64	MP-10	Z	.029	2
65	MP-10	Z	.022	2
66	MP-10	Z	.019	4
67	MP-11	Z	.04	1
68	MP-11	Z	.032	4
69	MP-12	Z	.102	.5
70	MP-12	Z	.032	2
71	MP-12	Z	.054	2
72	SA-3C	Z	.019	.25
73	MP-2	Z	.102	6
74	MP-3	Z	.04	3
75	MP-3	Z	.032	6
76	MP-4	Z	.102	5
77	MP-6	Z	.045	6
78	MP-7	Z	.019	3
79	MP-7	Z	.017	6
80	MP-8	Z	.121	5
81	MP-10	Z	.119	6
82	MP-11	Z	.04	3
83	MP-11	Z	.032	6
84	MP-12	Z	.102	5

Member Point Loads (BLC 12 : 225 Wind - No Ice)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-2	X	.117	1
2	MP-2	X	.047	2
3	MP-2	X	.038	2
4	MP-2	X	.034	4
5	MP-3	X	.047	1
6	MP-3	X	.038	4
7	MP-4	X	.117	.5
8	MP-4	X	.05	2
9	MP-4	X	.082	2
10	SA-1B	X	.033	.25
11	MP-6	X	.071	1
12	MP-6	X	.056	2
13	MP-6	X	.051	2
14	MP-6	X	.045	4
15	MP-7	X	.029	1
16	MP-7	X	.026	4
17	MP-8	X	.164	.5
18	MP-8	X	.042	2
19	MP-8	X	.071	2
20	SA-2B	X	.026	.25
21	MP-10	X	.152	1
22	MP-10	X	.037	2
23	MP-10	X	.025	2
24	MP-10	X	.023	4



Company : Tower Engineering Professionals, Inc.
 Designer : ARH
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Member Point Loads (BLC 12 : 225 Wind - No Ice) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
25	MP-11	X	.064	1
26	MP-11	X	.05	4
27	MP-12	X	.164	.5
28	MP-12	X	.042	2
29	MP-12	X	.071	2
30	SA-3C	X	.026	.25
31	MP-2	X	.117	6
32	MP-3	X	.047	3
33	MP-3	X	.038	6
34	MP-4	X	.117	5
35	MP-6	X	.071	6
36	MP-7	X	.029	3
37	MP-7	X	.026	6
38	MP-8	X	.164	5
39	MP-10	X	.152	6
40	MP-11	X	.064	3
41	MP-11	X	.05	6
42	MP-12	X	.164	5
43	MP-2	Z	.117	1
44	MP-2	Z	.047	2
45	MP-2	Z	.038	2
46	MP-2	Z	.034	4
47	MP-3	Z	.047	1
48	MP-3	Z	.038	4
49	MP-4	Z	.117	.5
50	MP-4	Z	.05	2
51	MP-4	Z	.082	2
52	SA-1B	Z	.033	.25
53	MP-6	Z	.071	1
54	MP-6	Z	.056	2
55	MP-6	Z	.051	2
56	MP-6	Z	.045	4
57	MP-7	Z	.029	1
58	MP-7	Z	.026	4
59	MP-8	Z	.164	.5
60	MP-8	Z	.042	2
61	MP-8	Z	.071	2
62	SA-2B	Z	.026	.25
63	MP-10	Z	.152	1
64	MP-10	Z	.037	2
65	MP-10	Z	.025	2
66	MP-10	Z	.023	4
67	MP-11	Z	.064	1
68	MP-11	Z	.05	4
69	MP-12	Z	.164	.5
70	MP-12	Z	.042	2
71	MP-12	Z	.071	2
72	SA-3C	Z	.026	.25
73	MP-2	Z	.117	6
74	MP-3	Z	.047	3
75	MP-3	Z	.038	6
76	MP-4	Z	.117	5



Company : Tower Engineering Professionals, Inc.
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Member Point Loads (BLC 12 : 225 Wind - No Ice) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
77	MP-6	Z	.071	6
78	MP-7	Z	.029	3
79	MP-7	Z	.026	6
80	MP-8	Z	.164	5
81	MP-10	Z	.152	6
82	MP-11	Z	.064	3
83	MP-11	Z	.05	6
84	MP-12	Z	.164	5

Member Point Loads (BLC 13 : 240 Wind - No Ice)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-2	X	.064	1
2	MP-2	X	.037	2
3	MP-2	X	.032	2
4	MP-2	X	.029	4
5	MP-3	X	.026	1
6	MP-3	X	.022	4
7	MP-4	X	.064	.5
8	MP-4	X	.039	2
9	MP-4	X	.063	2
10	SA-1B	X	.023	.25
11	MP-6	X	.064	1
12	MP-6	X	.037	2
13	MP-6	X	.032	2
14	MP-6	X	.029	4
15	MP-7	X	.026	1
16	MP-7	X	.022	4
17	MP-8	X	.102	.5
18	MP-8	X	.032	2
19	MP-8	X	.054	2
20	SA-2B	X	.019	.25
21	MP-10	X	.09	1
22	MP-10	X	.025	2
23	MP-10	X	.017	2
24	MP-10	X	.015	4
25	MP-11	X	.047	1
26	MP-11	X	.037	4
27	MP-12	X	.121	.5
28	MP-12	X	.029	2
29	MP-12	X	.049	2
30	SA-3C	X	.019	.25
31	MP-2	X	.064	6
32	MP-3	X	.026	3
33	MP-3	X	.022	6
34	MP-4	X	.064	5
35	MP-6	X	.064	6
36	MP-7	X	.026	3
37	MP-7	X	.022	6
38	MP-8	X	.102	5
39	MP-10	X	.09	6
40	MP-11	X	.047	3



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Member Point Loads (BLC 13 : 240 Wind - No Ice) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
41	MP-11	X	.037	6
42	MP-12	X	.121	5
43	MP-2	Z	.111	1
44	MP-2	Z	.064	2
45	MP-2	Z	.056	2
46	MP-2	Z	.05	4
47	MP-3	Z	.045	1
48	MP-3	Z	.039	4
49	MP-4	Z	.111	.5
50	MP-4	Z	.067	2
51	MP-4	Z	.108	2
52	SA-1B	Z	.04	.25
53	MP-6	Z	.111	1
54	MP-6	Z	.064	2
55	MP-6	Z	.056	2
56	MP-6	Z	.05	4
57	MP-7	Z	.045	1
58	MP-7	Z	.039	4
59	MP-8	Z	.177	.5
60	MP-8	Z	.055	2
61	MP-8	Z	.093	2
62	SA-2B	Z	.032	.25
63	MP-10	Z	.155	1
64	MP-10	Z	.044	2
65	MP-10	Z	.029	2
66	MP-10	Z	.025	4
67	MP-11	Z	.081	1
68	MP-11	Z	.064	4
69	MP-12	Z	.209	.5
70	MP-12	Z	.049	2
71	MP-12	Z	.085	2
72	SA-3C	Z	.032	.25
73	MP-2	Z	.111	6
74	MP-3	Z	.045	3
75	MP-3	Z	.039	6
76	MP-4	Z	.111	5
77	MP-6	Z	.111	6
78	MP-7	Z	.045	3
79	MP-7	Z	.039	6
80	MP-8	Z	.177	5
81	MP-10	Z	.155	6
82	MP-11	Z	.081	3
83	MP-11	Z	.064	6
84	MP-12	Z	.209	5

Member Point Loads (BLC 14 : 270 Wind - No Ice)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-2	Z	.091	1
2	MP-2	Z	.082	2
3	MP-2	Z	.075	2
4	MP-2	Z	.067	4



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Member Point Loads (BLC 14 : 270 Wind - No Ice) (Continued)

	Member Label	Direction	Magnitude[k, k-ft]	Location[ft, %]
5	MP-3	Z	.038	1
6	MP-3	Z	.035	4
7	MP-4	Z	.091	.5
8	MP-4	Z	.084	2
9	MP-4	Z	.134	2
10	SA-1B	Z	.046	.25
11	MP-6	Z	.204	1
12	MP-6	Z	.058	2
13	MP-6	Z	.044	2
14	MP-6	Z	.039	4
15	MP-7	Z	.08	1
16	MP-7	Z	.064	4
17	MP-8	Z	.128	.5
18	MP-8	Z	.077	2
19	MP-8	Z	.125	2
20	SA-2B	Z	.037	.25
21	MP-10	Z	.108	1
22	MP-10	Z	.058	2
23	MP-10	Z	.044	2
24	MP-10	Z	.039	4
25	MP-11	Z	.08	1
26	MP-11	Z	.064	4
27	MP-12	Z	.204	.5
28	MP-12	Z	.064	2
29	MP-12	Z	.107	2
30	SA-3C	Z	.037	.25
31	MP-2	Z	.091	6
32	MP-3	Z	.038	3
33	MP-3	Z	.035	6
34	MP-4	Z	.091	5
35	MP-6	Z	.204	6
36	MP-7	Z	.08	3
37	MP-7	Z	.064	6
38	MP-8	Z	.128	5
39	MP-10	Z	.108	6
40	MP-11	Z	.08	3
41	MP-11	Z	.064	6
42	MP-12	Z	.204	5

Member Point Loads (BLC 15 : 300 Wind - No Ice)

	Member Label	Direction	Magnitude[k, k-ft]	Location[ft, %]
1	MP-2	X	-.064	1
2	MP-2	X	-.037	2
3	MP-2	X	-.032	2
4	MP-2	X	-.029	4
5	MP-3	X	-.026	1
6	MP-3	X	-.022	4
7	MP-4	X	-.064	.5
8	MP-4	X	-.039	2
9	MP-4	X	-.063	2
10	SA-1B	X	-.023	.25



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Member Point Loads (BLC 15 : 300 Wind - No Ice) (Continued)

	Member Label	Direction	Magnitude[k, k-ft]	Location[ft, %]
11	MP-6	X	-.121	1
12	MP-6	X	-.025	2
13	MP-6	X	-.017	2
14	MP-6	X	-.015	4
15	MP-7	X	-.047	1
16	MP-7	X	-.037	4
17	MP-8	X	-.045	.5
18	MP-8	X	-.042	2
19	MP-8	X	-.067	2
20	SA-2B	X	-.019	.25
21	MP-10	X	-.048	1
22	MP-10	X	-.037	2
23	MP-10	X	-.032	2
24	MP-10	X	-.029	4
25	MP-11	X	-.026	1
26	MP-11	X	-.022	4
27	MP-12	X	-.064	.5
28	MP-12	X	-.039	2
29	MP-12	X	-.063	2
30	SA-3C	X	-.019	.25
31	MP-2	X	-.064	6
32	MP-3	X	-.026	3
33	MP-3	X	-.022	6
34	MP-4	X	-.064	5
35	MP-6	X	-.121	6
36	MP-7	X	-.047	3
37	MP-7	X	-.037	6
38	MP-8	X	-.045	5
39	MP-10	X	-.048	6
40	MP-11	X	-.026	3
41	MP-11	X	-.022	6
42	MP-12	X	-.064	5
43	MP-2	Z	.111	1
44	MP-2	Z	.064	2
45	MP-2	Z	.056	2
46	MP-2	Z	.05	4
47	MP-3	Z	.045	1
48	MP-3	Z	.039	4
49	MP-4	Z	.111	.5
50	MP-4	Z	.067	2
51	MP-4	Z	.108	2
52	SA-1B	Z	.04	.25
53	MP-6	Z	.209	1
54	MP-6	Z	.044	2
55	MP-6	Z	.029	2
56	MP-6	Z	.025	4
57	MP-7	Z	.081	1
58	MP-7	Z	.064	4
59	MP-8	Z	.079	.5
60	MP-8	Z	.073	2
61	MP-8	Z	.116	2
62	SA-2B	Z	.032	.25



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Member Point Loads (BLC 15 : 300 Wind - No Ice) (Continued)

	Member Label	Direction	Magnitude[k, k-ft]	Location[ft, %]
63	MP-10	Z	.082	1
64	MP-10	Z	.064	2
65	MP-10	Z	.056	2
66	MP-10	Z	.05	4
67	MP-11	Z	.045	1
68	MP-11	Z	.039	4
69	MP-12	Z	.111	.5
70	MP-12	Z	.067	2
71	MP-12	Z	.108	2
72	SA-3C	Z	.032	.25
73	MP-2	Z	.111	6
74	MP-3	Z	.045	3
75	MP-3	Z	.039	6
76	MP-4	Z	.111	5
77	MP-6	Z	.209	6
78	MP-7	Z	.081	3
79	MP-7	Z	.064	6
80	MP-8	Z	.079	5
81	MP-10	Z	.082	6
82	MP-11	Z	.045	3
83	MP-11	Z	.039	6
84	MP-12	Z	.111	5

Member Point Loads (BLC 16 : 315 Wind - No Ice)

	Member Label	Direction	Magnitude[k, k-ft]	Location[ft, %]
1	MP-2	X	-.117	1
2	MP-2	X	-.047	2
3	MP-2	X	-.038	2
4	MP-2	X	-.034	4
5	MP-3	X	-.047	1
6	MP-3	X	-.038	4
7	MP-4	X	-.117	.5
8	MP-4	X	-.05	2
9	MP-4	X	-.082	2
10	SA-1B	X	-.033	.25
11	MP-6	X	-.164	1
12	MP-6	X	-.037	2
13	MP-6	X	-.025	2
14	MP-6	X	-.023	4
15	MP-7	X	-.064	1
16	MP-7	X	-.05	4
17	MP-8	X	-.071	.5
18	MP-8	X	-.058	2
19	MP-8	X	-.093	2
20	SA-2B	X	-.026	.25
21	MP-10	X	-.083	1
22	MP-10	X	-.056	2
23	MP-10	X	-.051	2
24	MP-10	X	-.045	4
25	MP-11	X	-.029	1
26	MP-11	X	-.026	4



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Member Point Loads (BLC 16 : 315 Wind - No Ice) (Continued)

	Member Label	Direction	Magnitude[k, k-ft]	Location[ft, %]
27	MP-12	X	-.071	.5
28	MP-12	X	-.058	2
29	MP-12	X	-.093	2
30	SA-3C	X	-.026	.25
31	MP-2	X	-.117	6
32	MP-3	X	-.047	3
33	MP-3	X	-.038	6
34	MP-4	X	-.117	5
35	MP-6	X	-.164	6
36	MP-7	X	-.064	3
37	MP-7	X	-.05	6
38	MP-8	X	-.071	5
39	MP-10	X	-.083	6
40	MP-11	X	-.029	3
41	MP-11	X	-.026	6
42	MP-12	X	-.071	5
43	MP-2	Z	.117	1
44	MP-2	Z	.047	2
45	MP-2	Z	.038	2
46	MP-2	Z	.034	4
47	MP-3	Z	.047	1
48	MP-3	Z	.038	4
49	MP-4	Z	.117	.5
50	MP-4	Z	.05	2
51	MP-4	Z	.082	2
52	SA-1B	Z	.033	.25
53	MP-6	Z	.164	1
54	MP-6	Z	.037	2
55	MP-6	Z	.025	2
56	MP-6	Z	.023	4
57	MP-7	Z	.064	1
58	MP-7	Z	.05	4
59	MP-8	Z	.071	.5
60	MP-8	Z	.058	2
61	MP-8	Z	.093	2
62	SA-2B	Z	.026	.25
63	MP-10	Z	.083	1
64	MP-10	Z	.056	2
65	MP-10	Z	.051	2
66	MP-10	Z	.045	4
67	MP-11	Z	.029	1
68	MP-11	Z	.026	4
69	MP-12	Z	.071	.5
70	MP-12	Z	.058	2
71	MP-12	Z	.093	2
72	SA-3C	Z	.026	.25
73	MP-2	Z	.117	6
74	MP-3	Z	.047	3
75	MP-3	Z	.038	6
76	MP-4	Z	.117	5
77	MP-6	Z	.164	6
78	MP-7	Z	.064	3



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Member Point Loads (BLC 16 : 315 Wind - No Ice) (Continued)

	Member Label	Direction	Magnitude[k, k-ft]	Location[ft, %]
79	MP-7	Z	.05	6
80	MP-8	Z	.071	5
81	MP-10	Z	.083	6
82	MP-11	Z	.029	3
83	MP-11	Z	.026	6
84	MP-12	Z	.071	5

Member Point Loads (BLC 17 : 330 Wind - No Ice)

	Member Label	Direction	Magnitude[k, k-ft]	Location[ft, %]
1	MP-2	X	-.177	1
2	MP-2	X	-.05	2
3	MP-2	X	-.038	2
4	MP-2	X	-.033	4
5	MP-3	X	-.069	1
6	MP-3	X	-.055	4
7	MP-4	X	-.177	.5
8	MP-4	X	-.055	2
9	MP-4	X	-.093	2
10	SA-1B	X	-.04	.25
11	MP-6	X	-.177	1
12	MP-6	X	-.05	2
13	MP-6	X	-.038	2
14	MP-6	X	-.033	4
15	MP-7	X	-.069	1
16	MP-7	X	-.055	4
17	MP-8	X	-.111	.5
18	MP-8	X	-.067	2
19	MP-8	X	-.108	2
20	SA-2B	X	-.032	.25
21	MP-10	X	-.133	1
22	MP-10	X	-.071	2
23	MP-10	X	-.065	2
24	MP-10	X	-.058	4
25	MP-11	X	-.033	1
26	MP-11	X	-.03	4
27	MP-12	X	-.079	.5
28	MP-12	X	-.073	2
29	MP-12	X	-.116	2
30	SA-3C	X	-.032	.25
31	MP-2	X	-.177	6
32	MP-3	X	-.069	3
33	MP-3	X	-.055	6
34	MP-4	X	-.177	5
35	MP-6	X	-.177	6
36	MP-7	X	-.069	3
37	MP-7	X	-.055	6
38	MP-8	X	-.111	5
39	MP-10	X	-.133	6
40	MP-11	X	-.033	3
41	MP-11	X	-.03	6
42	MP-12	X	-.079	5



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Member Point Loads (BLC 17 : 330 Wind - No Ice) (Continued)

	Member Label	Direction	Magnitude[k, k-ft]	Location[ft, %]
43	MP-2	Z	.102	1
44	MP-2	Z	.029	2
45	MP-2	Z	.022	2
46	MP-2	Z	.019	4
47	MP-3	Z	.04	1
48	MP-3	Z	.032	4
49	MP-4	Z	.102	.5
50	MP-4	Z	.032	2
51	MP-4	Z	.054	2
52	SA-1B	Z	.023	.25
53	MP-6	Z	.102	1
54	MP-6	Z	.029	2
55	MP-6	Z	.022	2
56	MP-6	Z	.019	4
57	MP-7	Z	.04	1
58	MP-7	Z	.032	4
59	MP-8	Z	.064	.5
60	MP-8	Z	.039	2
61	MP-8	Z	.063	2
62	SA-2B	Z	.019	.25
63	MP-10	Z	.077	1
64	MP-10	Z	.041	2
65	MP-10	Z	.037	2
66	MP-10	Z	.033	4
67	MP-11	Z	.019	1
68	MP-11	Z	.017	4
69	MP-12	Z	.045	.5
70	MP-12	Z	.042	2
71	MP-12	Z	.067	2
72	SA-3C	Z	.019	.25
73	MP-2	Z	.102	6
74	MP-3	Z	.04	3
75	MP-3	Z	.032	6
76	MP-4	Z	.102	5
77	MP-6	Z	.102	6
78	MP-7	Z	.04	3
79	MP-7	Z	.032	6
80	MP-8	Z	.064	5
81	MP-10	Z	.077	6
82	MP-11	Z	.019	3
83	MP-11	Z	.017	6
84	MP-12	Z	.045	5

Member Point Loads (BLC 18 : Ice Weight)

	Member Label	Direction	Magnitude[k, k-ft]	Location[ft, %]
1	MP-2	Y	-.088	1
2	MP-2	Y	-.044	2
3	MP-2	Y	-.035	2
4	MP-2	Y	-.032	4
5	MP-3	Y	-.031	1
6	MP-3	Y	-.036	4



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Member Point Loads (BLC 18 : Ice Weight) (Continued)

	Member Label	Direction	Magnitude[k, k-ft]	Location[ft, %]
7	MP-4	Y	-0.088	.5
8	MP-4	Y	-0.047	2
9	MP-4	Y	-0.068	2
10	SA-1B	Y	-0.044	.25
11	MP-6	Y	-0.088	1
12	MP-6	Y	-0.044	2
13	MP-6	Y	-0.035	2
14	MP-6	Y	-0.032	4
15	MP-7	Y	-0.031	1
16	MP-7	Y	-0.036	4
17	MP-8	Y	-0.088	.5
18	MP-8	Y	-0.047	2
19	MP-8	Y	-0.068	2
20	SA-2B	Y	-0.037	.25
21	MP-10	Y	-0.088	1
22	MP-10	Y	-0.044	2
23	MP-10	Y	-0.035	2
24	MP-10	Y	-0.032	4
25	MP-11	Y	-0.031	1
26	MP-11	Y	-0.036	4
27	MP-12	Y	-0.088	.5
28	MP-12	Y	-0.047	2
29	MP-12	Y	-0.068	2
30	SA-3C	Y	-0.037	.25
31	MP-2	Y	-0.088	6
32	MP-3	Y	-0.031	3
33	MP-3	Y	-0.036	6
34	MP-4	Y	-0.088	5
35	MP-6	Y	-0.088	6
36	MP-7	Y	-0.031	3
37	MP-7	Y	-0.036	6
38	MP-8	Y	-0.088	5
39	MP-10	Y	-0.088	6
40	MP-11	Y	-0.031	3
41	MP-11	Y	-0.036	6
42	MP-12	Y	-0.088	5

Member Point Loads (BLC 19 : 0 Wind - Ice)

	Member Label	Direction	Magnitude[k, k-ft]	Location[ft, %]
1	MP-2	X	-0.047	1
2	MP-2	X	-0.019	2
3	MP-2	X	-0.017	2
4	MP-2	X	-0.016	4
5	MP-3	X	-0.02	1
6	MP-3	X	-0.015	4
7	MP-4	X	-0.047	.5
8	MP-4	X	-0.019	2
9	MP-4	X	-0.029	2
10	SA-1B	X	-0.01	.25
11	MP-6	X	-0.047	1
12	MP-6	X	-0.019	2



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Member Point Loads (BLC 19 : 0 Wind - Ice) (Continued)

	Member Label	Direction	Magnitude[k, k-ft]	Location[ft, %]
13	MP-6	X	-0.017	2
14	MP-6	X	-0.016	4
15	MP-7	X	-0.02	1
16	MP-7	X	-0.015	4
17	MP-8	X	-0.047	.5
18	MP-8	X	-0.019	2
19	MP-8	X	-0.029	2
20	SA-2B	X	-0.008	.25
21	MP-10	X	-0.047	1
22	MP-10	X	-0.019	2
23	MP-10	X	-0.017	2
24	MP-10	X	-0.016	4
25	MP-11	X	-0.02	1
26	MP-11	X	-0.015	4
27	MP-12	X	-0.047	.5
28	MP-12	X	-0.019	2
29	MP-12	X	-0.029	2
30	SA-3C	X	-0.008	.25
31	MP-2	X	-0.047	6
32	MP-3	X	-0.02	3
33	MP-3	X	-0.015	6
34	MP-4	X	-0.047	5
35	MP-6	X	-0.047	6
36	MP-7	X	-0.02	3
37	MP-7	X	-0.015	6
38	MP-8	X	-0.047	5
39	MP-10	X	-0.047	6
40	MP-11	X	-0.02	3
41	MP-11	X	-0.015	6
42	MP-12	X	-0.047	5

Member Point Loads (BLC 20 : 30 Wind - Ice)

	Member Label	Direction	Magnitude[k, k-ft]	Location[ft, %]
1	MP-2	X	-0.035	1
2	MP-2	X	-0.012	2
3	MP-2	X	-0.01	2
4	MP-2	X	-0.009	4
5	MP-3	X	-0.015	1
6	MP-3	X	-0.012	4
7	MP-4	X	-0.035	.5
8	MP-4	X	-0.013	2
9	MP-4	X	-0.021	2
10	SA-1B	X	-0.009	.25
11	MP-6	X	-0.018	1
12	MP-6	X	-0.016	2
13	MP-6	X	-0.015	2
14	MP-6	X	-0.013	4
15	MP-7	X	-0.008	1
16	MP-7	X	-0.007	4
17	MP-8	X	-0.041	.5
18	MP-8	X	-0.012	2



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Member Point Loads (BLC 20 : 30 Wind - Ice) (Continued)

	Member Label	Direction	Magnitude[k, k-ft]	Location[ft, %]
19	MP-8	X	-019	2
20	SA-2B	X	-007	.25
21	MP-10	X	-.04	1
22	MP-10	X	-012	2
23	MP-10	X	-.01	2
24	MP-10	X	-009	4
25	MP-11	X	-015	1
26	MP-11	X	-012	4
27	MP-12	X	-035	.5
28	MP-12	X	-013	2
29	MP-12	X	-021	2
30	SA-3C	X	-007	.25
31	MP-2	X	-035	6
32	MP-3	X	-015	3
33	MP-3	X	-012	6
34	MP-4	X	-035	5
35	MP-6	X	-018	6
36	MP-7	X	-008	3
37	MP-7	X	-007	6
38	MP-8	X	-041	5
39	MP-10	X	-.04	6
40	MP-11	X	-015	3
41	MP-11	X	-012	6
42	MP-12	X	-035	5
43	MP-2	Z	-.02	1
44	MP-2	Z	-007	2
45	MP-2	Z	-006	2
46	MP-2	Z	-005	4
47	MP-3	Z	-009	1
48	MP-3	Z	-007	4
49	MP-4	Z	-.02	.5
50	MP-4	Z	-008	2
51	MP-4	Z	-012	2
52	SA-1B	Z	-005	.25
53	MP-6	Z	-.01	1
54	MP-6	Z	-009	2
55	MP-6	Z	-009	2
56	MP-6	Z	-008	4
57	MP-7	Z	-005	1
58	MP-7	Z	-004	4
59	MP-8	Z	-024	.5
60	MP-8	Z	-007	2
61	MP-8	Z	-011	2
62	SA-2B	Z	-004	.25
63	MP-10	Z	-023	1
64	MP-10	Z	-007	2
65	MP-10	Z	-006	2
66	MP-10	Z	-005	4
67	MP-11	Z	-009	1
68	MP-11	Z	-007	4
69	MP-12	Z	-.02	.5
70	MP-12	Z	-008	2



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Member Point Loads (BLC 20 : 30 Wind - Ice) (Continued)

	Member Label	Direction	Magnitude[k, k-ft]	Location[ft, %]
71	MP-12	Z	-012	2
72	SA-3C	Z	-004	.25
73	MP-2	Z	-.02	6
74	MP-3	Z	-009	3
75	MP-3	Z	-007	6
76	MP-4	Z	-.02	5
77	MP-6	Z	-.01	6
78	MP-7	Z	-005	3
79	MP-7	Z	-004	6
80	MP-8	Z	-024	5
81	MP-10	Z	-023	6
82	MP-11	Z	-009	3
83	MP-11	Z	-007	6
84	MP-12	Z	-.02	5

Member Point Loads (BLC 21 : 45 Wind - Ice)

	Member Label	Direction	Magnitude[k, k-ft]	Location[ft, %]
1	MP-2	X	-024	1
2	MP-2	X	-011	2
3	MP-2	X	-009	2
4	MP-2	X	-008	4
5	MP-3	X	-.01	1
6	MP-3	X	-008	4
7	MP-4	X	-024	.5
8	MP-4	X	-012	2
9	MP-4	X	-018	2
10	SA-1B	X	-007	.25
11	MP-6	X	-016	1
12	MP-6	X	-013	2
13	MP-6	X	-012	2
14	MP-6	X	-011	4
15	MP-7	X	-007	1
16	MP-7	X	-006	4
17	MP-8	X	-032	.5
18	MP-8	X	-.01	2
19	MP-8	X	-016	2
20	SA-2B	X	-006	.25
21	MP-10	X	-.03	1
22	MP-10	X	-009	2
23	MP-10	X	-007	2
24	MP-10	X	-006	4
25	MP-11	X	-013	1
26	MP-11	X	-011	4
27	MP-12	X	-032	.5
28	MP-12	X	-.01	2
29	MP-12	X	-016	2
30	SA-3C	X	-006	.25
31	MP-2	X	-024	6
32	MP-3	X	-.01	3
33	MP-3	X	-008	6
34	MP-4	X	-024	5



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Member Point Loads (BLC 21 : 45 Wind - Ice) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
35	MP-6	X	-016	6
36	MP-7	X	-007	3
37	MP-7	X	-006	6
38	MP-8	X	-032	5
39	MP-10	X	-03	6
40	MP-11	X	-013	3
41	MP-11	X	-011	6
42	MP-12	X	-032	5
43	MP-2	Z	-024	1
44	MP-2	Z	-011	2
45	MP-2	Z	-009	2
46	MP-2	Z	-008	4
47	MP-3	Z	-01	1
48	MP-3	Z	-008	4
49	MP-4	Z	-024	.5
50	MP-4	Z	-012	2
51	MP-4	Z	-018	2
52	SA-1B	Z	-007	.25
53	MP-6	Z	-016	1
54	MP-6	Z	-013	2
55	MP-6	Z	-012	2
56	MP-6	Z	-011	4
57	MP-7	Z	-007	1
58	MP-7	Z	-006	4
59	MP-8	Z	-032	.5
60	MP-8	Z	-01	2
61	MP-8	Z	-016	2
62	SA-2B	Z	-006	.25
63	MP-10	Z	-03	1
64	MP-10	Z	-009	2
65	MP-10	Z	-007	2
66	MP-10	Z	-006	4
67	MP-11	Z	-013	1
68	MP-11	Z	-011	4
69	MP-12	Z	-032	.5
70	MP-12	Z	-01	2
71	MP-12	Z	-016	2
72	SA-3C	Z	-006	.25
73	MP-2	Z	-024	6
74	MP-3	Z	-01	3
75	MP-3	Z	-008	6
76	MP-4	Z	-024	5
77	MP-6	Z	-016	6
78	MP-7	Z	-007	3
79	MP-7	Z	-006	6
80	MP-8	Z	-032	5
81	MP-10	Z	-03	6
82	MP-11	Z	-013	3
83	MP-11	Z	-011	6
84	MP-12	Z	-032	5



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Member Point Loads (BLC 22 : 60 Wind - Ice)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-2	X	-014	1
2	MP-2	X	-009	2
3	MP-2	X	-008	2
4	MP-2	X	-007	4
5	MP-3	X	-006	1
6	MP-3	X	-005	4
7	MP-4	X	-014	.5
8	MP-4	X	-009	2
9	MP-4	X	-014	2
10	SA-1B	X	-005	.25
11	MP-6	X	-014	1
12	MP-6	X	-009	2
13	MP-6	X	-008	2
14	MP-6	X	-007	4
15	MP-7	X	-006	1
16	MP-7	X	-005	4
17	MP-8	X	-02	.5
18	MP-8	X	-008	2
19	MP-8	X	-012	2
20	SA-2B	X	-004	.25
21	MP-10	X	-018	1
22	MP-10	X	-006	2
23	MP-10	X	-004	2
24	MP-10	X	-004	4
25	MP-11	X	-01	1
26	MP-11	X	-008	4
27	MP-12	X	-024	.5
28	MP-12	X	-007	2
29	MP-12	X	-011	2
30	SA-3C	X	-004	.25
31	MP-2	X	-014	6
32	MP-3	X	-006	3
33	MP-3	X	-005	6
34	MP-4	X	-014	5
35	MP-6	X	-014	6
36	MP-7	X	-006	3
37	MP-7	X	-005	6
38	MP-8	X	-02	5
39	MP-10	X	-018	6
40	MP-11	X	-01	3
41	MP-11	X	-008	6
42	MP-12	X	-024	5
43	MP-2	Z	-023	1
44	MP-2	Z	-015	2
45	MP-2	Z	-013	2
46	MP-2	Z	-012	4
47	MP-3	Z	-01	1
48	MP-3	Z	-009	4
49	MP-4	Z	-023	.5
50	MP-4	Z	-015	2
51	MP-4	Z	-024	2
52	SA-1B	Z	-009	.25



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Member Point Loads (BLC 22 : 60 Wind - Ice) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
53	MP-6	Z	-0.23	1
54	MP-6	Z	-0.15	2
55	MP-6	Z	-0.13	2
56	MP-6	Z	-0.12	4
57	MP-7	Z	-0.01	1
58	MP-7	Z	-0.09	4
59	MP-8	Z	-0.35	.5
60	MP-8	Z	-0.13	2
61	MP-8	Z	-0.21	2
62	SA-2B	Z	-0.07	.25
63	MP-10	Z	-0.31	1
64	MP-10	Z	-0.11	2
65	MP-10	Z	-0.08	2
66	MP-10	Z	-0.07	4
67	MP-11	Z	-0.17	1
68	MP-11	Z	-0.13	4
69	MP-12	Z	-0.41	.5
70	MP-12	Z	-0.12	2
71	MP-12	Z	-0.19	2
72	SA-3C	Z	-0.07	.25
73	MP-2	Z	-0.23	6
74	MP-3	Z	-0.01	3
75	MP-3	Z	-0.09	6
76	MP-4	Z	-0.23	5
77	MP-6	Z	-0.23	6
78	MP-7	Z	-0.01	3
79	MP-7	Z	-0.09	6
80	MP-8	Z	-0.35	5
81	MP-10	Z	-0.31	6
82	MP-11	Z	-0.17	3
83	MP-11	Z	-0.13	6
84	MP-12	Z	-0.41	5

Member Point Loads (BLC 23 : 90 Wind - Ice)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-2	Z	-0.02	1
2	MP-2	Z	-0.13	2
3	MP-2	Z	-0.09	2
4	MP-2	Z	-0.08	4
5	MP-3	Z	-0.09	1
6	MP-3	Z	-0.08	4
7	MP-4	Z	-0.02	.5
8	MP-4	Z	-0.14	2
9	MP-4	Z	-0.22	2
10	SA-1B	Z	-0.01	.25
11	MP-6	Z	-0.02	1
12	MP-6	Z	-0.13	2
13	MP-6	Z	-0.09	2
14	MP-6	Z	-0.08	4
15	MP-7	Z	-0.09	1
16	MP-7	Z	-0.08	4



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Member Point Loads (BLC 23 : 90 Wind - Ice) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
17	MP-8	Z	-0.02	.5
18	MP-8	Z	-0.14	2
19	MP-8	Z	-0.22	2
20	SA-2B	Z	-0.08	.25
21	MP-10	Z	-0.02	1
22	MP-10	Z	-0.13	2
23	MP-10	Z	-0.09	2
24	MP-10	Z	-0.08	4
25	MP-11	Z	-0.09	1
26	MP-11	Z	-0.08	4
27	MP-12	Z	-0.02	.5
28	MP-12	Z	-0.14	2
29	MP-12	Z	-0.22	2
30	SA-3C	Z	-0.08	.25
31	MP-2	Z	-0.02	6
32	MP-3	Z	-0.09	3
33	MP-3	Z	-0.08	6
34	MP-4	Z	-0.02	5
35	MP-6	Z	-0.02	6
36	MP-7	Z	-0.09	3
37	MP-7	Z	-0.08	6
38	MP-8	Z	-0.02	5
39	MP-10	Z	-0.02	6
40	MP-11	Z	-0.09	3
41	MP-11	Z	-0.08	6
42	MP-12	Z	-0.02	5

Member Point Loads (BLC 24 : 120 Wind - Ice)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-2	X	.014	1
2	MP-2	X	.009	2
3	MP-2	X	.008	2
4	MP-2	X	.007	4
5	MP-3	X	.006	1
6	MP-3	X	.005	4
7	MP-4	X	.014	.5
8	MP-4	X	.009	2
9	MP-4	X	.014	2
10	SA-1B	X	.005	.25
11	MP-6	X	.024	1
12	MP-6	X	.006	2
13	MP-6	X	.004	2
14	MP-6	X	.004	4
15	MP-7	X	.01	1
16	MP-7	X	.008	4
17	MP-8	X	.01	.5
18	MP-8	X	.01	2
19	MP-8	X	.015	2
20	SA-2B	X	.004	.25
21	MP-10	X	.011	1
22	MP-10	X	.009	2



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Member Point Loads (BLC 24 : 120 Wind - Ice) (Continued)

	Member Label	Direction	Magnitude[k, k-ft]	Location[ft, %]
23	MP-10	X	.008	2
24	MP-10	X	.007	4
25	MP-11	X	.006	1
26	MP-11	X	.005	4
27	MP-12	X	.014	.5
28	MP-12	X	.009	2
29	MP-12	X	.014	2
30	SA-3C	X	.004	.25
31	MP-2	X	.014	6
32	MP-3	X	.006	3
33	MP-3	X	.005	6
34	MP-4	X	.014	5
35	MP-6	X	.024	6
36	MP-7	X	.01	3
37	MP-7	X	.008	6
38	MP-8	X	.01	5
39	MP-10	X	.011	6
40	MP-11	X	.006	3
41	MP-11	X	.005	6
42	MP-12	X	.014	5
43	MP-2	Z	-.023	1
44	MP-2	Z	-.015	2
45	MP-2	Z	-.013	2
46	MP-2	Z	-.012	4
47	MP-3	Z	-.01	1
48	MP-3	Z	-.009	4
49	MP-4	Z	-.023	.5
50	MP-4	Z	-.015	2
51	MP-4	Z	-.024	2
52	SA-1B	Z	-.009	.25
53	MP-6	Z	-.041	1
54	MP-6	Z	-.011	2
55	MP-6	Z	-.008	2
56	MP-6	Z	-.007	4
57	MP-7	Z	-.017	1
58	MP-7	Z	-.013	4
59	MP-8	Z	-.018	.5
60	MP-8	Z	-.017	2
61	MP-8	Z	-.025	2
62	SA-2B	Z	-.007	.25
63	MP-10	Z	-.018	1
64	MP-10	Z	-.015	2
65	MP-10	Z	-.013	2
66	MP-10	Z	-.012	4
67	MP-11	Z	-.01	1
68	MP-11	Z	-.009	4
69	MP-12	Z	-.023	.5
70	MP-12	Z	-.015	2
71	MP-12	Z	-.024	2
72	SA-3C	Z	-.007	.25
73	MP-2	Z	-.023	6
74	MP-3	Z	-.01	3



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Member Point Loads (BLC 24 : 120 Wind - Ice) (Continued)

	Member Label	Direction	Magnitude[k, k-ft]	Location[ft, %]
75	MP-3	Z	-.009	6
76	MP-4	Z	-.023	5
77	MP-6	Z	-.041	6
78	MP-7	Z	-.017	3
79	MP-7	Z	-.013	6
80	MP-8	Z	-.018	5
81	MP-10	Z	-.018	6
82	MP-11	Z	-.01	3
83	MP-11	Z	-.009	6
84	MP-12	Z	-.023	5

Member Point Loads (BLC 25 : 135 Wind - Ice)

	Member Label	Direction	Magnitude[k, k-ft]	Location[ft, %]
1	MP-2	X	.024	1
2	MP-2	X	.011	2
3	MP-2	X	.009	2
4	MP-2	X	.008	4
5	MP-3	X	.01	1
6	MP-3	X	.008	4
7	MP-4	X	.024	.5
8	MP-4	X	.012	2
9	MP-4	X	.018	2
10	SA-1B	X	.007	.25
11	MP-6	X	.032	1
12	MP-6	X	.009	2
13	MP-6	X	.007	2
14	MP-6	X	.006	4
15	MP-7	X	.013	1
16	MP-7	X	.011	4
17	MP-8	X	.016	.5
18	MP-8	X	.013	2
19	MP-8	X	.02	2
20	SA-2B	X	.006	.25
21	MP-10	X	.018	1
22	MP-10	X	.013	2
23	MP-10	X	.012	2
24	MP-10	X	.011	4
25	MP-11	X	.007	1
26	MP-11	X	.006	4
27	MP-12	X	.016	.5
28	MP-12	X	.013	2
29	MP-12	X	.02	2
30	SA-3C	X	.006	.25
31	MP-2	X	.024	6
32	MP-3	X	.01	3
33	MP-3	X	.008	6
34	MP-4	X	.024	5
35	MP-6	X	.032	6
36	MP-7	X	.013	3
37	MP-7	X	.011	6
38	MP-8	X	.016	5



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Member Point Loads (BLC 25 : 135 Wind - Ice) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
39	MP-10	X	.018	6
40	MP-11	X	.007	3
41	MP-11	X	.006	6
42	MP-12	X	.016	5
43	MP-2	Z	-.024	1
44	MP-2	Z	-.011	2
45	MP-2	Z	-.009	2
46	MP-2	Z	-.008	4
47	MP-3	Z	-.01	1
48	MP-3	Z	-.008	4
49	MP-4	Z	-.024	.5
50	MP-4	Z	-.012	2
51	MP-4	Z	-.018	2
52	SA-1B	Z	-.007	.25
53	MP-6	Z	-.032	1
54	MP-6	Z	-.009	2
55	MP-6	Z	-.007	2
56	MP-6	Z	-.006	4
57	MP-7	Z	-.013	1
58	MP-7	Z	-.011	4
59	MP-8	Z	-.016	.5
60	MP-8	Z	-.013	2
61	MP-8	Z	-.02	2
62	SA-2B	Z	-.006	.25
63	MP-10	Z	-.018	1
64	MP-10	Z	-.013	2
65	MP-10	Z	-.012	2
66	MP-10	Z	-.011	4
67	MP-11	Z	-.007	1
68	MP-11	Z	-.006	4
69	MP-12	Z	-.016	.5
70	MP-12	Z	-.013	2
71	MP-12	Z	-.02	2
72	SA-3C	Z	-.006	.25
73	MP-2	Z	-.024	6
74	MP-3	Z	-.01	3
75	MP-3	Z	-.008	6
76	MP-4	Z	-.024	5
77	MP-6	Z	-.032	6
78	MP-7	Z	-.013	3
79	MP-7	Z	-.011	6
80	MP-8	Z	-.016	5
81	MP-10	Z	-.018	6
82	MP-11	Z	-.007	3
83	MP-11	Z	-.006	6
84	MP-12	Z	-.016	5

Member Point Loads (BLC 26 : 150 Wind - Ice)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-2	X	.035	1
2	MP-2	X	.012	2



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Member Point Loads (BLC 26 : 150 Wind - Ice) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
3	MP-2	X	.01	2
4	MP-2	X	.009	4
5	MP-3	X	.015	1
6	MP-3	X	.012	4
7	MP-4	X	.035	.5
8	MP-4	X	.013	2
9	MP-4	X	.021	2
10	SA-1B	X	.009	.25
11	MP-6	X	.035	1
12	MP-6	X	.012	2
13	MP-6	X	.01	2
14	MP-6	X	.009	4
15	MP-7	X	.015	1
16	MP-7	X	.012	4
17	MP-8	X	.023	.5
18	MP-8	X	.015	2
19	MP-8	X	.024	2
20	SA-2B	X	.007	.25
21	MP-10	X	.027	1
22	MP-10	X	.016	2
23	MP-10	X	.015	2
24	MP-10	X	.013	4
25	MP-11	X	.008	1
26	MP-11	X	.007	4
27	MP-12	X	.018	.5
28	MP-12	X	.017	2
29	MP-12	X	.025	2
30	SA-3C	X	.007	.25
31	MP-2	X	.035	6
32	MP-3	X	.015	3
33	MP-3	X	.012	6
34	MP-4	X	.035	5
35	MP-6	X	.035	6
36	MP-7	X	.015	3
37	MP-7	X	.012	6
38	MP-8	X	.023	5
39	MP-10	X	.027	6
40	MP-11	X	.008	3
41	MP-11	X	.007	6
42	MP-12	X	.018	5
43	MP-2	Z	-.02	1
44	MP-2	Z	-.007	2
45	MP-2	Z	-.006	2
46	MP-2	Z	-.005	4
47	MP-3	Z	-.009	1
48	MP-3	Z	-.007	4
49	MP-4	Z	-.02	.5
50	MP-4	Z	-.008	2
51	MP-4	Z	-.012	2
52	SA-1B	Z	-.005	.25
53	MP-6	Z	-.02	1
54	MP-6	Z	-.007	2



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Member Point Loads (BLC 26 : 150 Wind - Ice) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
55	MP-6	Z	-0.006	2
56	MP-6	Z	-0.005	4
57	MP-7	Z	-0.009	1
58	MP-7	Z	-0.007	4
59	MP-8	Z	-0.014	.5
60	MP-8	Z	-0.009	2
61	MP-8	Z	-0.014	2
62	SA-2B	Z	-0.004	.25
63	MP-10	Z	-0.016	1
64	MP-10	Z	-0.009	2
65	MP-10	Z	-0.009	2
66	MP-10	Z	-0.008	4
67	MP-11	Z	-0.005	1
68	MP-11	Z	-0.004	4
69	MP-12	Z	-.01	.5
70	MP-12	Z	-.01	2
71	MP-12	Z	-0.015	2
72	SA-3C	Z	-0.004	.25
73	MP-2	Z	-.02	6
74	MP-3	Z	-0.009	3
75	MP-3	Z	-0.007	6
76	MP-4	Z	-.02	5
77	MP-6	Z	-.02	6
78	MP-7	Z	-0.009	3
79	MP-7	Z	-0.007	6
80	MP-8	Z	-0.014	5
81	MP-10	Z	-0.016	6
82	MP-11	Z	-0.005	3
83	MP-11	Z	-0.004	6
84	MP-12	Z	-.01	5

Member Point Loads (BLC 27 : 180 Wind - Ice)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-2	X	.047	1
2	MP-2	X	.019	2
3	MP-2	X	.017	2
4	MP-2	X	.016	4
5	MP-3	X	.02	1
6	MP-3	X	.015	4
7	MP-4	X	.047	.5
8	MP-4	X	.019	2
9	MP-4	X	.029	2
10	SA-1B	X	.01	.25
11	MP-6	X	.047	1
12	MP-6	X	.019	2
13	MP-6	X	.017	2
14	MP-6	X	.016	4
15	MP-7	X	.02	1
16	MP-7	X	.015	4
17	MP-8	X	.047	.5
18	MP-8	X	.019	2



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Member Point Loads (BLC 27 : 180 Wind - Ice) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
19	MP-8	X	.029	2
20	SA-2B	X	.008	.25
21	MP-10	X	.047	1
22	MP-10	X	.019	2
23	MP-10	X	.017	2
24	MP-10	X	.016	4
25	MP-11	X	.02	1
26	MP-11	X	.015	4
27	MP-12	X	.047	.5
28	MP-12	X	.019	2
29	MP-12	X	.029	2
30	SA-3C	X	.008	.25
31	MP-2	X	.047	6
32	MP-3	X	.02	3
33	MP-3	X	.015	6
34	MP-4	X	.047	5
35	MP-6	X	.047	6
36	MP-7	X	.02	3
37	MP-7	X	.015	6
38	MP-8	X	.047	5
39	MP-10	X	.047	6
40	MP-11	X	.02	3
41	MP-11	X	.015	6
42	MP-12	X	.047	5

Member Point Loads (BLC 28 : 210 Wind - Ice)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-2	X	.035	1
2	MP-2	X	.012	2
3	MP-2	X	.01	2
4	MP-2	X	.009	4
5	MP-3	X	.015	1
6	MP-3	X	.012	4
7	MP-4	X	.035	.5
8	MP-4	X	.013	2
9	MP-4	X	.021	2
10	SA-1B	X	.009	.25
11	MP-6	X	.018	1
12	MP-6	X	.016	2
13	MP-6	X	.015	2
14	MP-6	X	.013	4
15	MP-7	X	.008	1
16	MP-7	X	.007	4
17	MP-8	X	.041	.5
18	MP-8	X	.012	2
19	MP-8	X	.019	2
20	SA-2B	X	.007	.25
21	MP-10	X	.04	1
22	MP-10	X	.012	2
23	MP-10	X	.01	2
24	MP-10	X	.009	4



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Member Point Loads (BLC 28 : 210 Wind - Ice) (Continued)

Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]	
25	MP-11	X	.015	1
26	MP-11	X	.012	4
27	MP-12	X	.035	.5
28	MP-12	X	.013	2
29	MP-12	X	.021	2
30	SA-3C	X	.007	.25
31	MP-2	X	.035	6
32	MP-3	X	.015	3
33	MP-3	X	.012	6
34	MP-4	X	.035	5
35	MP-6	X	.018	6
36	MP-7	X	.008	3
37	MP-7	X	.007	6
38	MP-8	X	.041	5
39	MP-10	X	.04	6
40	MP-11	X	.015	3
41	MP-11	X	.012	6
42	MP-12	X	.035	5
43	MP-2	Z	.02	1
44	MP-2	Z	.007	2
45	MP-2	Z	.006	2
46	MP-2	Z	.005	4
47	MP-3	Z	.009	1
48	MP-3	Z	.007	4
49	MP-4	Z	.02	.5
50	MP-4	Z	.008	2
51	MP-4	Z	.012	2
52	SA-1B	Z	.005	.25
53	MP-6	Z	.01	1
54	MP-6	Z	.009	2
55	MP-6	Z	.009	2
56	MP-6	Z	.008	4
57	MP-7	Z	.005	1
58	MP-7	Z	.004	4
59	MP-8	Z	.024	.5
60	MP-8	Z	.007	2
61	MP-8	Z	.011	2
62	SA-2B	Z	.004	.25
63	MP-10	Z	.023	1
64	MP-10	Z	.007	2
65	MP-10	Z	.006	2
66	MP-10	Z	.005	4
67	MP-11	Z	.009	1
68	MP-11	Z	.007	4
69	MP-12	Z	.02	.5
70	MP-12	Z	.008	2
71	MP-12	Z	.012	2
72	SA-3C	Z	.004	.25
73	MP-2	Z	.02	6
74	MP-3	Z	.009	3
75	MP-3	Z	.007	6
76	MP-4	Z	.02	5



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Member Point Loads (BLC 28 : 210 Wind - Ice) (Continued)

Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]	
77	MP-6	Z	.01	6
78	MP-7	Z	.005	3
79	MP-7	Z	.004	6
80	MP-8	Z	.024	5
81	MP-10	Z	.023	6
82	MP-11	Z	.009	3
83	MP-11	Z	.007	6
84	MP-12	Z	.02	5

Member Point Loads (BLC 29 : 225 Wind - Ice)

Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]	
1	MP-2	X	.024	1
2	MP-2	X	.011	2
3	MP-2	X	.009	2
4	MP-2	X	.008	4
5	MP-3	X	.01	1
6	MP-3	X	.008	4
7	MP-4	X	.024	.5
8	MP-4	X	.012	2
9	MP-4	X	.018	2
10	SA-1B	X	.007	.25
11	MP-6	X	.016	1
12	MP-6	X	.013	2
13	MP-6	X	.012	2
14	MP-6	X	.011	4
15	MP-7	X	.007	1
16	MP-7	X	.006	4
17	MP-8	X	.032	.5
18	MP-8	X	.01	2
19	MP-8	X	.016	2
20	SA-2B	X	.006	.25
21	MP-10	X	.03	1
22	MP-10	X	.009	2
23	MP-10	X	.007	2
24	MP-10	X	.006	4
25	MP-11	X	.013	1
26	MP-11	X	.011	4
27	MP-12	X	.032	.5
28	MP-12	X	.01	2
29	MP-12	X	.016	2
30	SA-3C	X	.006	.25
31	MP-2	X	.024	6
32	MP-3	X	.01	3
33	MP-3	X	.008	6
34	MP-4	X	.024	5
35	MP-6	X	.016	6
36	MP-7	X	.007	3
37	MP-7	X	.006	6
38	MP-8	X	.032	5
39	MP-10	X	.03	6
40	MP-11	X	.013	3



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Member Point Loads (BLC 29 : 225 Wind - Ice) (Continued)

Member Label	Direction	Magnitude[k, k-ft]	Location[ft, %]	
41	MP-11	X	.011	6
42	MP-12	X	.032	5
43	MP-2	Z	.024	1
44	MP-2	Z	.011	2
45	MP-2	Z	.009	2
46	MP-2	Z	.008	4
47	MP-3	Z	.01	1
48	MP-3	Z	.008	4
49	MP-4	Z	.024	.5
50	MP-4	Z	.012	2
51	MP-4	Z	.018	2
52	SA-1B	Z	.007	.25
53	MP-6	Z	.016	1
54	MP-6	Z	.013	2
55	MP-6	Z	.012	2
56	MP-6	Z	.011	4
57	MP-7	Z	.007	1
58	MP-7	Z	.006	4
59	MP-8	Z	.032	.5
60	MP-8	Z	.01	2
61	MP-8	Z	.016	2
62	SA-2B	Z	.006	.25
63	MP-10	Z	.03	1
64	MP-10	Z	.009	2
65	MP-10	Z	.007	2
66	MP-10	Z	.006	4
67	MP-11	Z	.013	1
68	MP-11	Z	.011	4
69	MP-12	Z	.032	.5
70	MP-12	Z	.01	2
71	MP-12	Z	.016	2
72	SA-3C	Z	.006	.25
73	MP-2	Z	.024	6
74	MP-3	Z	.01	3
75	MP-3	Z	.008	6
76	MP-4	Z	.024	5
77	MP-6	Z	.016	6
78	MP-7	Z	.007	3
79	MP-7	Z	.006	6
80	MP-8	Z	.032	5
81	MP-10	Z	.03	6
82	MP-11	Z	.013	3
83	MP-11	Z	.011	6
84	MP-12	Z	.032	5

Member Point Loads (BLC 30 : 240 Wind - Ice)

Member Label	Direction	Magnitude[k, k-ft]	Location[ft, %]	
1	MP-2	X	.014	1
2	MP-2	X	.009	2
3	MP-2	X	.008	2
4	MP-2	X	.007	4



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Member Point Loads (BLC 30 : 240 Wind - Ice) (Continued)

Member Label	Direction	Magnitude[k, k-ft]	Location[ft, %]	
5	MP-3	X	.006	1
6	MP-3	X	.005	4
7	MP-4	X	.014	.5
8	MP-4	X	.009	2
9	MP-4	X	.014	2
10	SA-1B	X	.005	.25
11	MP-6	X	.014	1
12	MP-6	X	.009	2
13	MP-6	X	.008	2
14	MP-6	X	.007	4
15	MP-7	X	.006	1
16	MP-7	X	.005	4
17	MP-8	X	.02	.5
18	MP-8	X	.008	2
19	MP-8	X	.012	2
20	SA-2B	X	.004	.25
21	MP-10	X	.018	1
22	MP-10	X	.006	2
23	MP-10	X	.004	2
24	MP-10	X	.004	4
25	MP-11	X	.01	1
26	MP-11	X	.008	4
27	MP-12	X	.024	.5
28	MP-12	X	.007	2
29	MP-12	X	.011	2
30	SA-3C	X	.004	.25
31	MP-2	X	.014	6
32	MP-3	X	.006	3
33	MP-3	X	.005	6
34	MP-4	X	.014	5
35	MP-6	X	.014	6
36	MP-7	X	.006	3
37	MP-7	X	.005	6
38	MP-8	X	.02	5
39	MP-10	X	.018	6
40	MP-11	X	.01	3
41	MP-11	X	.008	6
42	MP-12	X	.024	5
43	MP-2	Z	.023	1
44	MP-2	Z	.015	2
45	MP-2	Z	.013	2
46	MP-2	Z	.012	4
47	MP-3	Z	.01	1
48	MP-3	Z	.009	4
49	MP-4	Z	.023	.5
50	MP-4	Z	.015	2
51	MP-4	Z	.024	2
52	SA-1B	Z	.009	.25
53	MP-6	Z	.023	1
54	MP-6	Z	.015	2
55	MP-6	Z	.013	2
56	MP-6	Z	.012	4



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Member Point Loads (BLC 30 : 240 Wind - Ice) (Continued)

	Member Label	Direction	Magnitude[k, k-ft]	Location[ft, %]
57	MP-7	Z	.01	1
58	MP-7	Z	.009	4
59	MP-8	Z	.035	.5
60	MP-8	Z	.013	2
61	MP-8	Z	.021	2
62	SA-2B	Z	.007	.25
63	MP-10	Z	.031	1
64	MP-10	Z	.011	2
65	MP-10	Z	.008	2
66	MP-10	Z	.007	4
67	MP-11	Z	.017	1
68	MP-11	Z	.013	4
69	MP-12	Z	.041	.5
70	MP-12	Z	.012	2
71	MP-12	Z	.019	2
72	SA-3C	Z	.007	.25
73	MP-2	Z	.023	6
74	MP-3	Z	.01	3
75	MP-3	Z	.009	6
76	MP-4	Z	.023	5
77	MP-6	Z	.023	6
78	MP-7	Z	.01	3
79	MP-7	Z	.009	6
80	MP-8	Z	.035	5
81	MP-10	Z	.031	6
82	MP-11	Z	.017	3
83	MP-11	Z	.013	6
84	MP-12	Z	.041	5

Member Point Loads (BLC 31 : 270 Wind - Ice)

	Member Label	Direction	Magnitude[k, k-ft]	Location[ft, %]
1	MP-2	Z	.02	1
2	MP-2	Z	.013	2
3	MP-2	Z	.009	2
4	MP-2	Z	.008	4
5	MP-3	Z	.009	1
6	MP-3	Z	.008	4
7	MP-4	Z	.02	.5
8	MP-4	Z	.014	2
9	MP-4	Z	.022	2
10	SA-1B	Z	.01	.25
11	MP-6	Z	.02	1
12	MP-6	Z	.013	2
13	MP-6	Z	.009	2
14	MP-6	Z	.008	4
15	MP-7	Z	.009	1
16	MP-7	Z	.008	4
17	MP-8	Z	.02	.5
18	MP-8	Z	.014	2
19	MP-8	Z	.022	2
20	SA-2B	Z	.008	.25



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Member Point Loads (BLC 31 : 270 Wind - Ice) (Continued)

	Member Label	Direction	Magnitude[k, k-ft]	Location[ft, %]
21	MP-10	Z	.02	1
22	MP-10	Z	.013	2
23	MP-10	Z	.009	2
24	MP-10	Z	.008	4
25	MP-11	Z	.009	1
26	MP-11	Z	.008	4
27	MP-12	Z	.02	.5
28	MP-12	Z	.014	2
29	MP-12	Z	.022	2
30	SA-3C	Z	.008	.25
31	MP-2	Z	.02	6
32	MP-3	Z	.009	3
33	MP-3	Z	.008	6
34	MP-4	Z	.02	5
35	MP-6	Z	.02	6
36	MP-7	Z	.009	3
37	MP-7	Z	.008	6
38	MP-8	Z	.02	5
39	MP-10	Z	.02	6
40	MP-11	Z	.009	3
41	MP-11	Z	.008	6
42	MP-12	Z	.02	5

Member Point Loads (BLC 32 : 300 Wind - Ice)

	Member Label	Direction	Magnitude[k, k-ft]	Location[ft, %]
1	MP-2	X	-.014	1
2	MP-2	X	-.009	2
3	MP-2	X	-.008	2
4	MP-2	X	-.007	4
5	MP-3	X	-.006	1
6	MP-3	X	-.005	4
7	MP-4	X	-.014	.5
8	MP-4	X	-.009	2
9	MP-4	X	-.014	2
10	SA-1B	X	-.005	.25
11	MP-6	X	-.024	1
12	MP-6	X	-.006	2
13	MP-6	X	-.004	2
14	MP-6	X	-.004	4
15	MP-7	X	-.01	1
16	MP-7	X	-.008	4
17	MP-8	X	-.01	.5
18	MP-8	X	-.01	2
19	MP-8	X	-.015	2
20	SA-2B	X	-.004	.25
21	MP-10	X	-.011	1
22	MP-10	X	-.009	2
23	MP-10	X	-.008	2
24	MP-10	X	-.007	4
25	MP-11	X	-.006	1
26	MP-11	X	-.005	4



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Member Point Loads (BLC 32 : 300 Wind - Ice) (Continued)

	Member Label	Direction	Magnitude[k, k-ft]	Location[ft, %]
27	MP-12	X	-0.14	.5
28	MP-12	X	-.009	2
29	MP-12	X	-.014	2
30	SA-3C	X	-.004	.25
31	MP-2	X	-.014	6
32	MP-3	X	-.006	3
33	MP-3	X	-.005	6
34	MP-4	X	-.014	5
35	MP-6	X	-.024	6
36	MP-7	X	-.01	3
37	MP-7	X	-.008	6
38	MP-8	X	-.01	5
39	MP-10	X	-.011	6
40	MP-11	X	-.006	3
41	MP-11	X	-.005	6
42	MP-12	X	-.014	5
43	MP-2	Z	.023	1
44	MP-2	Z	.015	2
45	MP-2	Z	.013	2
46	MP-2	Z	.012	4
47	MP-3	Z	.01	1
48	MP-3	Z	.009	4
49	MP-4	Z	.023	.5
50	MP-4	Z	.015	2
51	MP-4	Z	.024	2
52	SA-1B	Z	.009	.25
53	MP-6	Z	.041	1
54	MP-6	Z	.011	2
55	MP-6	Z	.008	2
56	MP-6	Z	.007	4
57	MP-7	Z	.017	1
58	MP-7	Z	.013	4
59	MP-8	Z	.018	.5
60	MP-8	Z	.017	2
61	MP-8	Z	.025	2
62	SA-2B	Z	.007	.25
63	MP-10	Z	.018	1
64	MP-10	Z	.015	2
65	MP-10	Z	.013	2
66	MP-10	Z	.012	4
67	MP-11	Z	.01	1
68	MP-11	Z	.009	4
69	MP-12	Z	.023	.5
70	MP-12	Z	.015	2
71	MP-12	Z	.024	2
72	SA-3C	Z	.007	.25
73	MP-2	Z	.023	6
74	MP-3	Z	.01	3
75	MP-3	Z	.009	6
76	MP-4	Z	.023	5
77	MP-6	Z	.041	6
78	MP-7	Z	.017	3



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Member Point Loads (BLC 32 : 300 Wind - Ice) (Continued)

	Member Label	Direction	Magnitude[k, k-ft]	Location[ft, %]
79	MP-7	Z	.013	6
80	MP-8	Z	.018	5
81	MP-10	Z	.018	6
82	MP-11	Z	.01	3
83	MP-11	Z	.009	6
84	MP-12	Z	.023	5

Member Point Loads (BLC 33 : 315 Wind - Ice)

	Member Label	Direction	Magnitude[k, k-ft]	Location[ft, %]
1	MP-2	X	-.024	1
2	MP-2	X	-.011	2
3	MP-2	X	-.009	2
4	MP-2	X	-.008	4
5	MP-3	X	-.01	1
6	MP-3	X	-.008	4
7	MP-4	X	-.024	.5
8	MP-4	X	-.012	2
9	MP-4	X	-.018	2
10	SA-1B	X	-.007	.25
11	MP-6	X	-.032	1
12	MP-6	X	-.009	2
13	MP-6	X	-.007	2
14	MP-6	X	-.006	4
15	MP-7	X	-.013	1
16	MP-7	X	-.011	4
17	MP-8	X	-.016	.5
18	MP-8	X	-.013	2
19	MP-8	X	-.02	2
20	SA-2B	X	-.006	.25
21	MP-10	X	-.018	1
22	MP-10	X	-.013	2
23	MP-10	X	-.012	2
24	MP-10	X	-.011	4
25	MP-11	X	-.007	1
26	MP-11	X	-.006	4
27	MP-12	X	-.016	.5
28	MP-12	X	-.013	2
29	MP-12	X	-.02	2
30	SA-3C	X	-.006	.25
31	MP-2	X	-.024	6
32	MP-3	X	-.01	3
33	MP-3	X	-.008	6
34	MP-4	X	-.024	5
35	MP-6	X	-.032	6
36	MP-7	X	-.013	3
37	MP-7	X	-.011	6
38	MP-8	X	-.016	5
39	MP-10	X	-.018	6
40	MP-11	X	-.007	3
41	MP-11	X	-.006	6
42	MP-12	X	-.016	5



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Member Point Loads (BLC 33 : 315 Wind - Ice) (Continued)

	Member Label	Direction	Magnitude[k, k-ft]	Location[ft, %]
43	MP-2	Z	.024	1
44	MP-2	Z	.011	2
45	MP-2	Z	.009	2
46	MP-2	Z	.008	4
47	MP-3	Z	.01	1
48	MP-3	Z	.008	4
49	MP-4	Z	.024	.5
50	MP-4	Z	.012	2
51	MP-4	Z	.018	2
52	SA-1B	Z	.007	.25
53	MP-6	Z	.032	1
54	MP-6	Z	.009	2
55	MP-6	Z	.007	2
56	MP-6	Z	.006	4
57	MP-7	Z	.013	1
58	MP-7	Z	.011	4
59	MP-8	Z	.016	.5
60	MP-8	Z	.013	2
61	MP-8	Z	.02	2
62	SA-2B	Z	.006	.25
63	MP-10	Z	.018	1
64	MP-10	Z	.013	2
65	MP-10	Z	.012	2
66	MP-10	Z	.011	4
67	MP-11	Z	.007	1
68	MP-11	Z	.006	4
69	MP-12	Z	.016	.5
70	MP-12	Z	.013	2
71	MP-12	Z	.02	2
72	SA-3C	Z	.006	.25
73	MP-2	Z	.024	6
74	MP-3	Z	.01	3
75	MP-3	Z	.008	6
76	MP-4	Z	.024	5
77	MP-6	Z	.032	6
78	MP-7	Z	.013	3
79	MP-7	Z	.011	6
80	MP-8	Z	.016	5
81	MP-10	Z	.018	6
82	MP-11	Z	.007	3
83	MP-11	Z	.006	6
84	MP-12	Z	.016	5

Member Point Loads (BLC 34 : 330 Wind - Ice)

	Member Label	Direction	Magnitude[k, k-ft]	Location[ft, %]
1	MP-2	X	-.035	1
2	MP-2	X	-.012	2
3	MP-2	X	-.01	2
4	MP-2	X	-.009	4
5	MP-3	X	-.015	1
6	MP-3	X	-.012	4



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Member Point Loads (BLC 34 : 330 Wind - Ice) (Continued)

	Member Label	Direction	Magnitude[k, k-ft]	Location[ft, %]
7	MP-4	X	-.035	.5
8	MP-4	X	-.013	2
9	MP-4	X	-.021	2
10	SA-1B	X	-.009	.25
11	MP-6	X	-.035	1
12	MP-6	X	-.012	2
13	MP-6	X	-.01	2
14	MP-6	X	-.009	4
15	MP-7	X	-.015	1
16	MP-7	X	-.012	4
17	MP-8	X	-.023	.5
18	MP-8	X	-.015	2
19	MP-8	X	-.024	2
20	SA-2B	X	-.007	.25
21	MP-10	X	-.027	1
22	MP-10	X	-.016	2
23	MP-10	X	-.015	2
24	MP-10	X	-.013	4
25	MP-11	X	-.008	1
26	MP-11	X	-.007	4
27	MP-12	X	-.018	.5
28	MP-12	X	-.017	2
29	MP-12	X	-.025	2
30	SA-3C	X	-.007	.25
31	MP-2	X	-.035	6
32	MP-3	X	-.015	3
33	MP-3	X	-.012	6
34	MP-4	X	-.035	5
35	MP-6	X	-.035	6
36	MP-7	X	-.015	3
37	MP-7	X	-.012	6
38	MP-8	X	-.023	5
39	MP-10	X	-.027	6
40	MP-11	X	-.008	3
41	MP-11	X	-.007	6
42	MP-12	X	-.018	5
43	MP-2	Z	.02	1
44	MP-2	Z	.007	2
45	MP-2	Z	.006	2
46	MP-2	Z	.005	4
47	MP-3	Z	.009	1
48	MP-3	Z	.007	4
49	MP-4	Z	.02	.5
50	MP-4	Z	.008	2
51	MP-4	Z	.012	2
52	SA-1B	Z	.005	.25
53	MP-6	Z	.02	1
54	MP-6	Z	.007	2
55	MP-6	Z	.006	2
56	MP-6	Z	.005	4
57	MP-7	Z	.009	1
58	MP-7	Z	.007	4



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Member Point Loads (BLC 34 : 330 Wind - Ice) (Continued)

	Member Label	Direction	Magnitude[k, k-ft]	Location[ft, %]
59	MP-8	Z	.014	.5
60	MP-8	Z	.009	2
61	MP-8	Z	.014	2
62	SA-2B	Z	.004	.25
63	MP-10	Z	.016	1
64	MP-10	Z	.009	2
65	MP-10	Z	.009	2
66	MP-10	Z	.008	4
67	MP-11	Z	.005	1
68	MP-11	Z	.004	4
69	MP-12	Z	.01	.5
70	MP-12	Z	.01	2
71	MP-12	Z	.015	2
72	SA-3C	Z	.004	.25
73	MP-2	Z	.02	6
74	MP-3	Z	.009	3
75	MP-3	Z	.007	6
76	MP-4	Z	.02	5
77	MP-6	Z	.02	6
78	MP-7	Z	.009	3
79	MP-7	Z	.007	6
80	MP-8	Z	.014	5
81	MP-10	Z	.016	6
82	MP-11	Z	.005	3
83	MP-11	Z	.004	6
84	MP-12	Z	.01	5

Member Point Loads (BLC 37 : Seismic Load X)

	Member Label	Direction	Magnitude[k, k-ft]	Location[ft, %]
1	MP-2	X	-.035	1
2	MP-2	X	-.059	2
3	MP-2	X	-.046	2
4	MP-2	X	-.048	4
5	MP-3	X	-.033	1
6	MP-3	X	-.041	4
7	MP-4	X	-.045	.5
8	MP-4	X	-.071	2
9	MP-4	X	-.077	2
10	SA-1B	X	-.016	.25
11	MP-6	X	-.035	1
12	MP-6	X	-.059	2
13	MP-6	X	-.046	2
14	MP-6	X	-.048	4
15	MP-7	X	-.033	1
16	MP-7	X	-.041	4
17	MP-8	X	-.045	.5
18	MP-8	X	-.071	2
19	MP-8	X	-.077	2
20	SA-2B	X	-.019	.25
21	MP-10	X	-.035	1
22	MP-10	X	-.059	2



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Member Point Loads (BLC 37 : Seismic Load X) (Continued)

	Member Label	Direction	Magnitude[k, k-ft]	Location[ft, %]
23	MP-10	X	-.046	2
24	MP-10	X	-.048	4
25	MP-11	X	-.033	1
26	MP-11	X	-.041	4
27	MP-12	X	-.045	.5
28	MP-12	X	-.071	2
29	MP-12	X	-.077	2
30	SA-3C	X	-.019	.25
31	MP-2	X	-.035	6
32	MP-3	X	-.033	3
33	MP-3	X	-.041	6
34	MP-4	X	-.045	5
35	MP-6	X	-.035	6
36	MP-7	X	-.033	3
37	MP-7	X	-.041	6
38	MP-8	X	-.045	5
39	MP-10	X	-.035	6
40	MP-11	X	-.033	3
41	MP-11	X	-.041	6
42	MP-12	X	-.045	5

Member Point Loads (BLC 38 : Seismic Load Z)

	Member Label	Direction	Magnitude[k, k-ft]	Location[ft, %]
1	MP-2	Z	-.035	1
2	MP-2	Z	-.059	2
3	MP-2	Z	-.046	2
4	MP-2	Z	-.048	4
5	MP-3	Z	-.033	1
6	MP-3	Z	-.041	4
7	MP-4	Z	-.045	.5
8	MP-4	Z	-.071	2
9	MP-4	Z	-.077	2
10	SA-1B	Z	-.016	.25
11	MP-6	Z	-.035	1
12	MP-6	Z	-.059	2
13	MP-6	Z	-.046	2
14	MP-6	Z	-.048	4
15	MP-7	Z	-.033	1
16	MP-7	Z	-.041	4
17	MP-8	Z	-.045	.5
18	MP-8	Z	-.071	2
19	MP-8	Z	-.077	2
20	SA-2B	Z	-.019	.25
21	MP-10	Z	-.035	1
22	MP-10	Z	-.059	2
23	MP-10	Z	-.046	2
24	MP-10	Z	-.048	4
25	MP-11	Z	-.033	1
26	MP-11	Z	-.041	4
27	MP-12	Z	-.045	.5
28	MP-12	Z	-.071	2



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Member Point Loads (BLC 38 : Seismic Load Z) (Continued)

Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]	
29	MP-12	Z	-0.77	2
30	SA-3C	Z	-0.19	.25
31	MP-2	Z	-0.35	6
32	MP-3	Z	-0.33	3
33	MP-3	Z	-0.41	6
34	MP-4	Z	-0.45	5
35	MP-6	Z	-0.35	6
36	MP-7	Z	-0.33	3
37	MP-7	Z	-0.41	6
38	MP-8	Z	-0.45	5
39	MP-10	Z	-0.35	6
40	MP-11	Z	-0.33	3
41	MP-11	Z	-0.41	6
42	MP-12	Z	-0.45	5

Member Distributed Loads (BLC 2 : 0 Wind - No Ice)

Member Label	Direction	Start Magnitude[k/ft,...]	End Magnitude[k/ft,F...]	Start Location[ft,%]	End Location[ft,%]	
1	GSI-1	X	-0.14	-0.14	0	%100
2	GSI-2	X	0	0	0	%100
3	GSI-3	X	-0.14	-0.14	0	%100
4	FF-TH	X	-0.02	-0.02	0	%100
5	SF1-TH	X	-0.01	-0.01	0	%100
6	SF2-TH	X	-0.01	-0.01	0	%100
7	GSIP-1	X	-0.02	-0.02	0	%100
8	GSIP-2	X	-0.008	-0.008	0	%100
9	GSIP-3	X	-0.008	-0.008	0	%100
10	SA-1A	X	0	0	0	%100
11	SA-2A	X	-0.014	-0.014	0	%100
12	SA-3A	X	-0.014	-0.014	0	%100
13	SA-1B	X	0	0	0	%100
14	SA-2B	X	-0.017	-0.017	0	%100
15	SA-3C	X	-0.017	-0.017	0	%100
16	MP-4	X	-0.01	-0.01	0	%100
17	MP-3	X	-0.01	-0.01	0	%100
18	MP-2	X	-0.01	-0.01	0	%100
19	MP-1	X	-0.01	-0.01	0	%100
20	MP-12	X	-0.01	-0.01	0	%100
21	MP-11	X	-0.01	-0.01	0	%100
22	MP-10	X	-0.01	-0.01	0	%100
23	MP-9	X	-0.01	-0.01	0	%100
24	MP-8	X	-0.01	-0.01	0	%100
25	MP-7	X	-0.01	-0.01	0	%100
26	MP-6	X	-0.01	-0.01	0	%100
27	MP-5	X	-0.01	-0.01	0	%100
28	FFTH	X	-0.011	-0.011	0	%100
29	SF1-TH 1	X	-0.005	-0.005	0	%100
30	SF2-TH 1	X	-0.005	-0.005	0	%100
31	SA-1	X	-0.007	-0.007	0	%100
32	SA-2	X	-0.007	-0.007	0	%100
33	SA-3	X	0	0	0	%100



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Member Distributed Loads (BLC 2 : 0 Wind - No Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft,...]	End Magnitude[k/ft,F...]	Start Location[ft,%]	End Location[ft,%]	
34	GSI-1 1	X	-0.003	-0.003	0	%100
35	GSI-2 1	X	-0.003	-0.003	0	%100
36	GSI-3 1	X	-0.008	-0.008	0	%100

Member Distributed Loads (BLC 3 : 30 Wind - No Ice)

Member Label	Direction	Start Magnitude[k/ft,...]	End Magnitude[k/ft,F...]	Start Location[ft,%]	End Location[ft,%]	
1	GSI-1	X	-0.007	-0.007	0	%100
2	GSI-2	X	-0.005	-0.005	0	%100
3	GSI-3	X	-0.014	-0.014	0	%100
4	FF-TH	X	-0.015	-0.015	0	%100
5	SF1-TH	X	0	0	0	%100
6	SF2-TH	X	-0.015	-0.015	0	%100
7	GSIP-1	X	-0.015	-0.015	0	%100
8	GSIP-2	X	0	0	0	%100
9	GSIP-3	X	-0.012	-0.012	0	%100
10	SA-1A	X	-0.007	-0.007	0	%100
11	SA-2A	X	-0.014	-0.014	0	%100
12	SA-3A	X	-0.007	-0.007	0	%100
13	SA-1B	X	-0.008	-0.008	0	%100
14	SA-2B	X	-0.018	-0.018	0	%100
15	SA-3C	X	-0.009	-0.009	0	%100
16	MP-4	X	-0.008	-0.008	0	%100
17	MP-3	X	-0.008	-0.008	0	%100
18	MP-2	X	-0.008	-0.008	0	%100
19	MP-1	X	-0.008	-0.008	0	%100
20	MP-12	X	-0.008	-0.008	0	%100
21	MP-11	X	-0.008	-0.008	0	%100
22	MP-10	X	-0.008	-0.008	0	%100
23	MP-9	X	-0.008	-0.008	0	%100
24	MP-8	X	-0.008	-0.008	0	%100
25	MP-7	X	-0.008	-0.008	0	%100
26	MP-6	X	-0.008	-0.008	0	%100
27	MP-5	X	-0.008	-0.008	0	%100
28	FFTH	X	-0.009	-0.009	0	%100
29	SF1-TH 1	X	-0.008	-0.008	0	%100
30	SF2-TH 1	X	0	0	0	%100
31	SA-1	X	-0.003	-0.003	0	%100
32	SA-2	X	-0.007	-0.007	0	%100
33	SA-3	X	-0.004	-0.004	0	%100
34	GSI-1 1	X	-0.005	-0.005	0	%100
35	GSI-2 1	X	0	0	0	%100
36	GSI-3 1	X	-0.006	-0.006	0	%100
37	GSI-1	Z	-0.004	-0.004	0	%100
38	GSI-2	Z	-0.004	-0.004	0	%100
39	GSI-3	Z	-0.007	-0.007	0	%100
40	FF-TH	Z	-0.009	-0.009	0	%100
41	SF1-TH	Z	0	0	0	%100
42	SF2-TH	Z	-0.009	-0.009	0	%100
43	GSIP-1	Z	-0.009	-0.009	0	%100
44	GSIP-2	Z	0	0	0	%100
45	GSIP-3	Z	-0.009	-0.009	0	%100



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Member Distributed Loads (BLC 3 : 30 Wind - No Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F...]	Start Location[ft.%]	End Location[ft.%]	
46	SA-1A	Z	-0.04	-0.04	0	%100
47	SA-2A	Z	-0.008	-0.008	0	%100
48	SA-3A	Z	-0.004	-0.004	0	%100
49	SA-1B	Z	-0.005	-0.005	0	%100
50	SA-2B	Z	-0.009	-0.009	0	%100
51	SA-3C	Z	-0.005	-0.005	0	%100
52	MP-4	Z	-0.005	-0.005	0	%100
53	MP-3	Z	-0.005	-0.005	0	%100
54	MP-2	Z	-0.005	-0.005	0	%100
55	MP-1	Z	-0.005	-0.005	0	%100
56	MP-12	Z	-0.005	-0.005	0	%100
57	MP-11	Z	-0.005	-0.005	0	%100
58	MP-10	Z	-0.005	-0.005	0	%100
59	MP-9	Z	-0.005	-0.005	0	%100
60	MP-8	Z	-0.005	-0.005	0	%100
61	MP-7	Z	-0.005	-0.005	0	%100
62	MP-6	Z	-0.005	-0.005	0	%100
63	MP-5	Z	-0.005	-0.005	0	%100
64	FFTH	Z	-0.005	-0.005	0	%100
65	SF1-TH 1	Z	-0.005	-0.005	0	%100
66	SF2-TH 1	Z	0	0	0	%100
67	SA-1	Z	-0.002	-0.002	0	%100
68	SA-2	Z	-0.004	-0.004	0	%100
69	SA-3	Z	-0.002	-0.002	0	%100
70	GSI-1 1	Z	-0.003	-0.003	0	%100
71	GSI-2 1	Z	0	0	0	%100
72	GSI-3 1	Z	-0.004	-0.004	0	%100

Member Distributed Loads (BLC 4 : 45 Wind - No Ice)

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F...]	Start Location[ft.%]	End Location[ft.%]	
1	GSI-1	X	-0.003	-0.003	0	%100
2	GSI-2	X	-0.006	-0.006	0	%100
3	GSI-3	X	-0.011	-0.011	0	%100
4	FF-TH	X	-0.01	-0.01	0	%100
5	SF1-TH	X	-0.004	-0.004	0	%100
6	SF2-TH	X	-0.014	-0.014	0	%100
7	GSIP-1	X	-0.01	-0.01	0	%100
8	GSIP-2	X	-0.003	-0.003	0	%100
9	GSIP-3	X	-0.011	-0.011	0	%100
10	SA-1A	X	-0.008	-0.008	0	%100
11	SA-2A	X	-0.011	-0.011	0	%100
12	SA-3A	X	-0.003	-0.003	0	%100
13	SA-1B	X	-0.009	-0.009	0	%100
14	SA-2B	X	-0.014	-0.014	0	%100
15	SA-3C	X	-0.003	-0.003	0	%100
16	MP-4	X	-0.007	-0.007	0	%100
17	MP-3	X	-0.007	-0.007	0	%100
18	MP-2	X	-0.007	-0.007	0	%100
19	MP-1	X	-0.007	-0.007	0	%100
20	MP-12	X	-0.007	-0.007	0	%100
21	MP-11	X	-0.007	-0.007	0	%100



Company : Tower Engineering Professionals, Inc.
 Designer : ARH
 Job Number : 72875.638741
 Model Name : CCsites BU No. 876310

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Member Distributed Loads (BLC 4 : 45 Wind - No Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F...]	Start Location[ft.%]	End Location[ft.%]	
22	MP-10	X	-0.007	-0.007	0	%100
23	MP-9	X	-0.007	-0.007	0	%100
24	MP-8	X	-0.007	-0.007	0	%100
25	MP-7	X	-0.007	-0.007	0	%100
26	MP-6	X	-0.007	-0.007	0	%100
27	MP-5	X	-0.007	-0.007	0	%100
28	FFTH	X	-0.006	-0.006	0	%100
29	SF1-TH 1	X	-0.007	-0.007	0	%100
30	SF2-TH 1	X	-0.002	-0.002	0	%100
31	SA-1	X	-0.001	-0.001	0	%100
32	SA-2	X	-0.005	-0.005	0	%100
33	SA-3	X	-0.004	-0.004	0	%100
34	GSI-1 1	X	-0.005	-0.005	0	%100
35	GSI-2 1	X	-0.001	-0.001	0	%100
36	GSI-3 1	X	-0.004	-0.004	0	%100
37	GSI-1	Z	-0.003	-0.003	0	%100
38	GSI-2	Z	-0.009	-0.009	0	%100
39	GSI-3	Z	-0.01	-0.01	0	%100
40	FF-TH	Z	-0.01	-0.01	0	%100
41	SF1-TH	Z	-0.004	-0.004	0	%100
42	SF2-TH	Z	-0.014	-0.014	0	%100
43	GSIP-1	Z	-0.01	-0.01	0	%100
44	GSIP-2	Z	-0.004	-0.004	0	%100
45	GSIP-3	Z	-0.014	-0.014	0	%100
46	SA-1A	Z	-0.008	-0.008	0	%100
47	SA-2A	Z	-0.011	-0.011	0	%100
48	SA-3A	Z	-0.003	-0.003	0	%100
49	SA-1B	Z	-0.01	-0.01	0	%100
50	SA-2B	Z	-0.013	-0.013	0	%100
51	SA-3C	Z	-0.003	-0.003	0	%100
52	MP-4	Z	-0.007	-0.007	0	%100
53	MP-3	Z	-0.007	-0.007	0	%100
54	MP-2	Z	-0.007	-0.007	0	%100
55	MP-1	Z	-0.007	-0.007	0	%100
56	MP-12	Z	-0.007	-0.007	0	%100
57	MP-11	Z	-0.007	-0.007	0	%100
58	MP-10	Z	-0.007	-0.007	0	%100
59	MP-9	Z	-0.007	-0.007	0	%100
60	MP-8	Z	-0.007	-0.007	0	%100
61	MP-7	Z	-0.007	-0.007	0	%100
62	MP-6	Z	-0.007	-0.007	0	%100
63	MP-5	Z	-0.007	-0.007	0	%100
64	FFTH	Z	-0.006	-0.006	0	%100
65	SF1-TH 1	Z	-0.008	-0.008	0	%100
66	SF2-TH 1	Z	-0.002	-0.002	0	%100
67	SA-1	Z	-0.001	-0.001	0	%100
68	SA-2	Z	-0.005	-0.005	0	%100
69	SA-3	Z	-0.004	-0.004	0	%100
70	GSI-1 1	Z	-0.005	-0.005	0	%100
71	GSI-2 1	Z	-0.001	-0.001	0	%100
72	GSI-3 1	Z	-0.004	-0.004	0	%100



Company : Tower Engineering Professionals, Inc.
 Designer : ARH
 Job Number : 72875.638741
 Model Name : CCsites BU No. 876310

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Member Distributed Loads (BLC 5 : 60 Wind - No Ice)

Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F...	Start Location[ft.%]	End Location[ft.%]	
1	GSI-1	X	0	0	%100	
2	GSI-2	X	-.005	-.005	0	%100
3	GSI-3	X	-.007	-.007	0	%100
4	FF-TH	X	-.005	-.005	0	%100
5	SF1-TH	X	-.005	-.005	0	%100
6	SF2-TH	X	-.01	-.01	0	%100
7	GSIP-1	X	-.005	-.005	0	%100
8	GSIP-2	X	-.004	-.004	0	%100
9	GSIP-3	X	-.008	-.008	0	%100
10	SA-1A	X	-.007	-.007	0	%100
11	SA-2A	X	-.007	-.007	0	%100
12	SA-3A	X	-.000145	-.000145	0	%100
13	SA-1B	X	-.008	-.008	0	%100
14	SA-2B	X	-.009	-.009	0	%100
15	SA-3C	X	-.000182	-.000182	0	%100
16	MP-4	X	-.005	-.005	0	%100
17	MP-3	X	-.005	-.005	0	%100
18	MP-2	X	-.005	-.005	0	%100
19	MP-1	X	-.005	-.005	0	%100
20	MP-12	X	-.005	-.005	0	%100
21	MP-11	X	-.005	-.005	0	%100
22	MP-10	X	-.005	-.005	0	%100
23	MP-9	X	-.005	-.005	0	%100
24	MP-8	X	-.005	-.005	0	%100
25	MP-7	X	-.005	-.005	0	%100
26	MP-6	X	-.005	-.005	0	%100
27	MP-5	X	-.005	-.005	0	%100
28	FFTH	X	-.003	-.003	0	%100
29	SF1-TH 1	X	-.005	-.005	0	%100
30	SF2-TH 1	X	-.003	-.003	0	%100
31	SA-1	X	0	0	0	%100
32	SA-2	X	-.003	-.003	0	%100
33	SA-3	X	-.004	-.004	0	%100
34	GSI-1 1	X	-.003	-.003	0	%100
35	GSI-2 1	X	-.002	-.002	0	%100
36	GSI-3 1	X	-.002	-.002	0	%100
37	GSI-1	Z	0	0	0	%100
38	GSI-2	Z	-.013	-.013	0	%100
39	GSI-3	Z	-.011	-.011	0	%100
40	FF-TH	Z	-.009	-.009	0	%100
41	SF1-TH	Z	-.009	-.009	0	%100
42	SF2-TH	Z	-.018	-.018	0	%100
43	GSIP-1	Z	-.009	-.009	0	%100
44	GSIP-2	Z	-.009	-.009	0	%100
45	GSIP-3	Z	-.017	-.017	0	%100
46	SA-1A	Z	-.012	-.012	0	%100
47	SA-2A	Z	-.012	-.012	0	%100
48	SA-3A	Z	-.000252	-.000252	0	%100
49	SA-1B	Z	-.016	-.016	0	%100
50	SA-2B	Z	-.014	-.014	0	%100
51	SA-3C	Z	-.000293	-.000293	0	%100
52	MP-4	Z	-.008	-.008	0	%100



Company : Tower Engineering Professionals, Inc.
 Designer : ARH
 Job Number : 72875.638741
 Model Name : CCsites BU No. 876310

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Member Distributed Loads (BLC 5 : 60 Wind - No Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F...	Start Location[ft.%]	End Location[ft.%]	
53	MP-3	Z	-.008	-.008	0	%100
54	MP-2	Z	-.008	-.008	0	%100
55	MP-1	Z	-.008	-.008	0	%100
56	MP-12	Z	-.008	-.008	0	%100
57	MP-11	Z	-.008	-.008	0	%100
58	MP-10	Z	-.008	-.008	0	%100
59	MP-9	Z	-.008	-.008	0	%100
60	MP-8	Z	-.008	-.008	0	%100
61	MP-7	Z	-.008	-.008	0	%100
62	MP-6	Z	-.008	-.008	0	%100
63	MP-5	Z	-.008	-.008	0	%100
64	FFTH	Z	-.005	-.005	0	%100
65	SF1-TH 1	Z	-.01	-.01	0	%100
66	SF2-TH 1	Z	-.005	-.005	0	%100
67	SA-1	Z	0	0	0	%100
68	SA-2	Z	-.006	-.006	0	%100
69	SA-3	Z	-.006	-.006	0	%100
70	GSI-1 1	Z	-.007	-.007	0	%100
71	GSI-2 1	Z	-.003	-.003	0	%100
72	GSI-3 1	Z	-.004	-.004	0	%100

Member Distributed Loads (BLC 6 : 90 Wind - No Ice)

Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F...	Start Location[ft.%]	End Location[ft.%]	
1	GSI-1	Z	-.007	-.007	0	%100
2	GSI-2	Z	-.017	-.017	0	%100
3	GSI-3	Z	-.007	-.007	0	%100
4	FF-TH	Z	0	0	0	%100
5	SF1-TH	Z	-.018	-.018	0	%100
6	SF2-TH	Z	-.018	-.018	0	%100
7	GSIP-1	Z	0	0	0	%100
8	GSIP-2	Z	-.017	-.017	0	%100
9	GSIP-3	Z	-.017	-.017	0	%100
10	SA-1A	Z	-.016	-.016	0	%100
11	SA-2A	Z	-.008	-.008	0	%100
12	SA-3A	Z	-.008	-.008	0	%100
13	SA-1B	Z	-.021	-.021	0	%100
14	SA-2B	Z	-.01	-.01	0	%100
15	SA-3C	Z	-.01	-.01	0	%100
16	MP-4	Z	-.01	-.01	0	%100
17	MP-3	Z	-.01	-.01	0	%100
18	MP-2	Z	-.01	-.01	0	%100
19	MP-1	Z	-.01	-.01	0	%100
20	MP-12	Z	-.01	-.01	0	%100
21	MP-11	Z	-.01	-.01	0	%100
22	MP-10	Z	-.01	-.01	0	%100
23	MP-9	Z	-.01	-.01	0	%100
24	MP-8	Z	-.01	-.01	0	%100
25	MP-7	Z	-.01	-.01	0	%100
26	MP-6	Z	-.01	-.01	0	%100
27	MP-5	Z	-.01	-.01	0	%100
28	FFTH	Z	0	0	0	%100



Company : Tower Engineering Professionals, Inc.
 Designer : ARH
 Job Number : 72875.638741
 Model Name : CCsites BU No. 876310

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Member Distributed Loads (BLC 6 : 90 Wind - No Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%)	End Location[ft,%)	
29	SF1-TH 1	Z	-.01	-.01	0	%100
30	SF2-TH 1	Z	-.01	-.01	0	%100
31	SA-1	Z	-.004	-.004	0	%100
32	SA-2	Z	-.004	-.004	0	%100
33	SA-3	Z	-.008	-.008	0	%100
34	GSI-1 1	Z	-.007	-.007	0	%100
35	GSI-2 1	Z	-.007	-.007	0	%100
36	GSI-3 1	Z	0	0	0	%100

Member Distributed Loads (BLC 7 : 120 Wind - No Ice)

Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%)	End Location[ft,%)	
1	GSI-1	X	.007	.007	0	%100
2	GSI-2	X	.005	.005	0	%100
3	GSI-3	X	0	0	0	%100
4	FF-TH	X	.005	.005	0	%100
5	SF1-TH	X	.01	.01	0	%100
6	SF2-TH	X	.005	.005	0	%100
7	GSIP-1	X	.005	.005	0	%100
8	GSIP-2	X	.008	.008	0	%100
9	GSIP-3	X	.004	.004	0	%100
10	SA-1A	X	.007	.007	0	%100
11	SA-2A	X	.000145	.000145	0	%100
12	SA-3A	X	.007	.007	0	%100
13	SA-1B	X	.008	.008	0	%100
14	SA-2B	X	.000182	.000182	0	%100
15	SA-3C	X	.009	.009	0	%100
16	MP-4	X	.005	.005	0	%100
17	MP-3	X	.005	.005	0	%100
18	MP-2	X	.005	.005	0	%100
19	MP-1	X	.005	.005	0	%100
20	MP-12	X	.005	.005	0	%100
21	MP-11	X	.005	.005	0	%100
22	MP-10	X	.005	.005	0	%100
23	MP-9	X	.005	.005	0	%100
24	MP-8	X	.005	.005	0	%100
25	MP-7	X	.005	.005	0	%100
26	MP-6	X	.005	.005	0	%100
27	MP-5	X	.005	.005	0	%100
28	FFTH	X	.003	.003	0	%100
29	SF1-TH 1	X	.003	.003	0	%100
30	SF2-TH 1	X	.005	.005	0	%100
31	SA-1	X	.003	.003	0	%100
32	SA-2	X	0	0	0	%100
33	SA-3	X	.004	.004	0	%100
34	GSI-1 1	X	.002	.002	0	%100
35	GSI-2 1	X	.003	.003	0	%100
36	GSI-3 1	X	.002	.002	0	%100
37	GSI-1	Z	-.011	-.011	0	%100
38	GSI-2	Z	-.013	-.013	0	%100
39	GSI-3	Z	0	0	0	%100
40	FF-TH	Z	-.009	-.009	0	%100



Company : Tower Engineering Professionals, Inc.
 Designer : ARH
 Job Number : 72875.638741
 Model Name : CCsites BU No. 876310

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Member Distributed Loads (BLC 7 : 120 Wind - No Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%)	End Location[ft,%)	
41	SF1-TH	Z	-.018	-.018	0	%100
42	SF2-TH	Z	-.009	-.009	0	%100
43	GSIP-1	Z	-.009	-.009	0	%100
44	GSIP-2	Z	-.017	-.017	0	%100
45	GSIP-3	Z	-.009	-.009	0	%100
46	SA-1A	Z	-.012	-.012	0	%100
47	SA-2A	Z	-.000252	-.000252	0	%100
48	SA-3A	Z	-.012	-.012	0	%100
49	SA-1B	Z	-.016	-.016	0	%100
50	SA-2B	Z	-.000293	-.000293	0	%100
51	SA-3C	Z	-.014	-.014	0	%100
52	MP-4	Z	-.008	-.008	0	%100
53	MP-3	Z	-.008	-.008	0	%100
54	MP-2	Z	-.008	-.008	0	%100
55	MP-1	Z	-.008	-.008	0	%100
56	MP-12	Z	-.008	-.008	0	%100
57	MP-11	Z	-.008	-.008	0	%100
58	MP-10	Z	-.008	-.008	0	%100
59	MP-9	Z	-.008	-.008	0	%100
60	MP-8	Z	-.008	-.008	0	%100
61	MP-7	Z	-.008	-.008	0	%100
62	MP-6	Z	-.008	-.008	0	%100
63	MP-5	Z	-.008	-.008	0	%100
64	FFTH	Z	-.005	-.005	0	%100
65	SF1-TH 1	Z	-.005	-.005	0	%100
66	SF2-TH 1	Z	-.01	-.01	0	%100
67	SA-1	Z	-.006	-.006	0	%100
68	SA-2	Z	0	0	0	%100
69	SA-3	Z	-.006	-.006	0	%100
70	GSI-1 1	Z	-.003	-.003	0	%100
71	GSI-2 1	Z	-.007	-.007	0	%100
72	GSI-3 1	Z	-.004	-.004	0	%100

Member Distributed Loads (BLC 8 : 135 Wind - No Ice)

Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%)	End Location[ft,%)	
1	GSI-1	X	.011	.011	0	%100
2	GSI-2	X	.006	.006	0	%100
3	GSI-3	X	.003	.003	0	%100
4	FF-TH	X	.01	.01	0	%100
5	SF1-TH	X	.014	.014	0	%100
6	SF2-TH	X	.004	.004	0	%100
7	GSIP-1	X	.01	.01	0	%100
8	GSIP-2	X	.011	.011	0	%100
9	GSIP-3	X	.003	.003	0	%100
10	SA-1A	X	.008	.008	0	%100
11	SA-2A	X	.003	.003	0	%100
12	SA-3A	X	.011	.011	0	%100
13	SA-1B	X	.009	.009	0	%100
14	SA-2B	X	.003	.003	0	%100
15	SA-3C	X	.014	.014	0	%100
16	MP-4	X	.007	.007	0	%100



Company : Tower Engineering Professionals, Inc.
 Designer : ARH
 Job Number : 72875.638741
 Model Name : CCISites BU No. 876310

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Member Distributed Loads (BLC 8 : 135 Wind - No Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F...	Start Location[ft.%]	End Location[ft.%]	
17	MP-3	X	.007	.007	0	%100
18	MP-2	X	.007	.007	0	%100
19	MP-1	X	.007	.007	0	%100
20	MP-12	X	.007	.007	0	%100
21	MP-11	X	.007	.007	0	%100
22	MP-10	X	.007	.007	0	%100
23	MP-9	X	.007	.007	0	%100
24	MP-8	X	.007	.007	0	%100
25	MP-7	X	.007	.007	0	%100
26	MP-6	X	.007	.007	0	%100
27	MP-5	X	.007	.007	0	%100
28	FFTH	X	.006	.006	0	%100
29	SF1-TH 1	X	.002	.002	0	%100
30	SF2-TH 1	X	.007	.007	0	%100
31	SA-1	X	.005	.005	0	%100
32	SA-2	X	.001	.001	0	%100
33	SA-3	X	.004	.004	0	%100
34	GSI-1 1	X	.001	.001	0	%100
35	GSI-2 1	X	.005	.005	0	%100
36	GSI-3 1	X	.004	.004	0	%100
37	GSI-1	Z	-.01	-.01	0	%100
38	GSI-2	Z	-.009	-.009	0	%100
39	GSI-3	Z	-.003	-.003	0	%100
40	FF-TH	Z	-.01	-.01	0	%100
41	SF1-TH	Z	-.014	-.014	0	%100
42	SF2-TH	Z	-.004	-.004	0	%100
43	GSIP-1	Z	-.01	-.01	0	%100
44	GSIP-2	Z	-.014	-.014	0	%100
45	GSIP-3	Z	-.004	-.004	0	%100
46	SA-1A	Z	-.008	-.008	0	%100
47	SA-2A	Z	-.003	-.003	0	%100
48	SA-3A	Z	-.011	-.011	0	%100
49	SA-1B	Z	-.01	-.01	0	%100
50	SA-2B	Z	-.003	-.003	0	%100
51	SA-3C	Z	-.013	-.013	0	%100
52	MP-4	Z	-.007	-.007	0	%100
53	MP-3	Z	-.007	-.007	0	%100
54	MP-2	Z	-.007	-.007	0	%100
55	MP-1	Z	-.007	-.007	0	%100
56	MP-12	Z	-.007	-.007	0	%100
57	MP-11	Z	-.007	-.007	0	%100
58	MP-10	Z	-.007	-.007	0	%100
59	MP-9	Z	-.007	-.007	0	%100
60	MP-8	Z	-.007	-.007	0	%100
61	MP-7	Z	-.007	-.007	0	%100
62	MP-6	Z	-.007	-.007	0	%100
63	MP-5	Z	-.007	-.007	0	%100
64	FFTH	Z	-.006	-.006	0	%100
65	SF1-TH 1	Z	-.002	-.002	0	%100
66	SF2-TH 1	Z	-.008	-.008	0	%100
67	SA-1	Z	-.005	-.005	0	%100
68	SA-2	Z	-.001	-.001	0	%100



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Member Distributed Loads (BLC 8 : 135 Wind - No Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F...	Start Location[ft.%]	End Location[ft.%]	
69	SA-3	Z	-.004	-.004	0	%100
70	GSI-1 1	Z	-.001	-.001	0	%100
71	GSI-2 1	Z	-.005	-.005	0	%100
72	GSI-3 1	Z	-.004	-.004	0	%100

Member Distributed Loads (BLC 9 : 150 Wind - No Ice)

Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F...	Start Location[ft.%]	End Location[ft.%]	
1	GSI-1	X	.014	.014	0	%100
2	GSI-2	X	.005	.005	0	%100
3	GSI-3	X	.007	.007	0	%100
4	FF-TH	X	.015	.015	0	%100
5	SF1-TH	X	.015	.015	0	%100
6	SF2-TH	X	0	0	0	%100
7	GSIP-1	X	.015	.015	0	%100
8	GSIP-2	X	.012	.012	0	%100
9	GSIP-3	X	0	0	0	%100
10	SA-1A	X	.007	.007	0	%100
11	SA-2A	X	.007	.007	0	%100
12	SA-3A	X	.014	.014	0	%100
13	SA-1B	X	.008	.008	0	%100
14	SA-2B	X	.009	.009	0	%100
15	SA-3C	X	.018	.018	0	%100
16	MP-4	X	.008	.008	0	%100
17	MP-3	X	.008	.008	0	%100
18	MP-2	X	.008	.008	0	%100
19	MP-1	X	.008	.008	0	%100
20	MP-12	X	.008	.008	0	%100
21	MP-11	X	.008	.008	0	%100
22	MP-10	X	.008	.008	0	%100
23	MP-9	X	.008	.008	0	%100
24	MP-8	X	.008	.008	0	%100
25	MP-7	X	.008	.008	0	%100
26	MP-6	X	.008	.008	0	%100
27	MP-5	X	.008	.008	0	%100
28	FFTH	X	.009	.009	0	%100
29	SF1-TH 1	X	0	0	0	%100
30	SF2-TH 1	X	.008	.008	0	%100
31	SA-1	X	.007	.007	0	%100
32	SA-2	X	.003	.003	0	%100
33	SA-3	X	.004	.004	0	%100
34	GSI-1 1	X	0	0	0	%100
35	GSI-2 1	X	.005	.005	0	%100
36	GSI-3 1	X	.006	.006	0	%100
37	GSI-1	Z	-.007	-.007	0	%100
38	GSI-2	Z	-.004	-.004	0	%100
39	GSI-3	Z	-.004	-.004	0	%100
40	FF-TH	Z	-.009	-.009	0	%100
41	SF1-TH	Z	-.009	-.009	0	%100
42	SF2-TH	Z	0	0	0	%100
43	GSIP-1	Z	-.009	-.009	0	%100
44	GSIP-2	Z	-.009	-.009	0	%100



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Member Distributed Loads (BLC 9 : 150 Wind - No Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F...	Start Location[ft.%]	End Location[ft.%]
45	GSIP-3	Z	0	0	%100
46	SA-1A	Z	-.004	-.004	0
47	SA-2A	Z	-.004	-.004	0
48	SA-3A	Z	-.008	-.008	0
49	SA-1B	Z	-.005	-.005	0
50	SA-2B	Z	-.005	-.005	0
51	SA-3C	Z	-.009	-.009	0
52	MP-4	Z	-.005	-.005	0
53	MP-3	Z	-.005	-.005	0
54	MP-2	Z	-.005	-.005	0
55	MP-1	Z	-.005	-.005	0
56	MP-12	Z	-.005	-.005	0
57	MP-11	Z	-.005	-.005	0
58	MP-10	Z	-.005	-.005	0
59	MP-9	Z	-.005	-.005	0
60	MP-8	Z	-.005	-.005	0
61	MP-7	Z	-.005	-.005	0
62	MP-6	Z	-.005	-.005	0
63	MP-5	Z	-.005	-.005	0
64	FFTH	Z	-.005	-.005	0
65	SF1-TH 1	Z	0	0	0
66	SF2-TH 1	Z	-.005	-.005	0
67	SA-1	Z	-.004	-.004	0
68	SA-2	Z	-.002	-.002	0
69	SA-3	Z	-.002	-.002	0
70	GSI-1 1	Z	0	0	0
71	GSI-2 1	Z	-.003	-.003	0
72	GSI-3 1	Z	-.004	-.004	0

Member Distributed Loads (BLC 10 : 180 Wind - No Ice)

Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	GSI-1	X	.014	.014	0
2	GSI-2	X	0	0	%100
3	GSI-3	X	.014	.014	0
4	FF-TH	X	.02	.02	0
5	SF1-TH	X	.01	.01	0
6	SF2-TH	X	.01	.01	0
7	GSIP-1	X	.02	.02	0
8	GSIP-2	X	.008	.008	0
9	GSIP-3	X	.008	.008	0
10	SA-1A	X	0	0	%100
11	SA-2A	X	.014	.014	0
12	SA-3A	X	.014	.014	0
13	SA-1B	X	0	0	%100
14	SA-2B	X	.017	.017	0
15	SA-3C	X	.017	.017	0
16	MP-4	X	.01	.01	0
17	MP-3	X	.01	.01	0
18	MP-2	X	.01	.01	0
19	MP-1	X	.01	.01	0
20	MP-12	X	.01	.01	0



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Member Distributed Loads (BLC 10 : 180 Wind - No Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F...	Start Location[ft.%]	End Location[ft.%]
21	MP-11	X	.01	.01	0
22	MP-10	X	.01	.01	0
23	MP-9	X	.01	.01	0
24	MP-8	X	.01	.01	0
25	MP-7	X	.01	.01	0
26	MP-6	X	.01	.01	0
27	MP-5	X	.01	.01	0
28	FFTH	X	.011	.011	0
29	SF1-TH 1	X	.005	.005	0
30	SF2-TH 1	X	.005	.005	0
31	SA-1	X	.007	.007	0
32	SA-2	X	.007	.007	0
33	SA-3	X	0	0	0
34	GSI-1 1	X	.003	.003	0
35	GSI-2 1	X	.003	.003	0
36	GSI-3 1	X	.008	.008	0

Member Distributed Loads (BLC 11 : 210 Wind - No Ice)

Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	GSI-1	X	.007	.007	0
2	GSI-2	X	.005	.005	0
3	GSI-3	X	.014	.014	0
4	FF-TH	X	.015	.015	0
5	SF1-TH	X	0	0	0
6	SF2-TH	X	.015	.015	0
7	GSIP-1	X	.015	.015	0
8	GSIP-2	X	0	0	%100
9	GSIP-3	X	.012	.012	0
10	SA-1A	X	.007	.007	0
11	SA-2A	X	.014	.014	0
12	SA-3A	X	.007	.007	0
13	SA-1B	X	.008	.008	0
14	SA-2B	X	.018	.018	0
15	SA-3C	X	.009	.009	0
16	MP-4	X	.008	.008	0
17	MP-3	X	.008	.008	0
18	MP-2	X	.008	.008	0
19	MP-1	X	.008	.008	0
20	MP-12	X	.008	.008	0
21	MP-11	X	.008	.008	0
22	MP-10	X	.008	.008	0
23	MP-9	X	.008	.008	0
24	MP-8	X	.008	.008	0
25	MP-7	X	.008	.008	0
26	MP-6	X	.008	.008	0
27	MP-5	X	.008	.008	0
28	FFTH	X	.009	.009	0
29	SF1-TH 1	X	.008	.008	0
30	SF2-TH 1	X	0	0	0
31	SA-1	X	.003	.003	0
32	SA-2	X	.007	.007	0



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Member Distributed Loads (BLC 11 : 210 Wind - No Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F...	Start Location[ft.%]	End Location[ft.%]	
33	SA-3	X	.004	.004	0	%100
34	GSI-1 1	X	.005	.005	0	%100
35	GSI-2 1	X	0	0	0	%100
36	GSI-3 1	X	.006	.006	0	%100
37	GSI-1	Z	.004	.004	0	%100
38	GSI-2	Z	.004	.004	0	%100
39	GSI-3	Z	.007	.007	0	%100
40	FF-TH	Z	.009	.009	0	%100
41	SF1-TH	Z	0	0	0	%100
42	SF2-TH	Z	.009	.009	0	%100
43	GSIP-1	Z	.009	.009	0	%100
44	GSIP-2	Z	0	0	0	%100
45	GSIP-3	Z	.009	.009	0	%100
46	SA-1A	Z	.004	.004	0	%100
47	SA-2A	Z	.008	.008	0	%100
48	SA-3A	Z	.004	.004	0	%100
49	SA-1B	Z	.005	.005	0	%100
50	SA-2B	Z	.009	.009	0	%100
51	SA-3C	Z	.005	.005	0	%100
52	MP-4	Z	.005	.005	0	%100
53	MP-3	Z	.005	.005	0	%100
54	MP-2	Z	.005	.005	0	%100
55	MP-1	Z	.005	.005	0	%100
56	MP-12	Z	.005	.005	0	%100
57	MP-11	Z	.005	.005	0	%100
58	MP-10	Z	.005	.005	0	%100
59	MP-9	Z	.005	.005	0	%100
60	MP-8	Z	.005	.005	0	%100
61	MP-7	Z	.005	.005	0	%100
62	MP-6	Z	.005	.005	0	%100
63	MP-5	Z	.005	.005	0	%100
64	FFTH	Z	.005	.005	0	%100
65	SF1-TH 1	Z	.005	.005	0	%100
66	SF2-TH 1	Z	0	0	0	%100
67	SA-1	Z	.002	.002	0	%100
68	SA-2	Z	.004	.004	0	%100
69	SA-3	Z	.002	.002	0	%100
70	GSI-1 1	Z	.003	.003	0	%100
71	GSI-2 1	Z	0	0	0	%100
72	GSI-3 1	Z	.004	.004	0	%100

Member Distributed Loads (BLC 12 : 225 Wind - No Ice)

Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F...	Start Location[ft.%]	End Location[ft.%]	
1	GSI-1	X	.003	.003	0	%100
2	GSI-2	X	.006	.006	0	%100
3	GSI-3	X	.011	.011	0	%100
4	FF-TH	X	.01	.01	0	%100
5	SF1-TH	X	.004	.004	0	%100
6	SF2-TH	X	.014	.014	0	%100
7	GSIP-1	X	.01	.01	0	%100
8	GSIP-2	X	.003	.003	0	%100



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Member Distributed Loads (BLC 12 : 225 Wind - No Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F...	Start Location[ft.%]	End Location[ft.%]	
9	GSIP-3	X	.011	.011	0	%100
10	SA-1A	X	.008	.008	0	%100
11	SA-2A	X	.011	.011	0	%100
12	SA-3A	X	.003	.003	0	%100
13	SA-1B	X	.009	.009	0	%100
14	SA-2B	X	.014	.014	0	%100
15	SA-3C	X	.003	.003	0	%100
16	MP-4	X	.007	.007	0	%100
17	MP-3	X	.007	.007	0	%100
18	MP-2	X	.007	.007	0	%100
19	MP-1	X	.007	.007	0	%100
20	MP-12	X	.007	.007	0	%100
21	MP-11	X	.007	.007	0	%100
22	MP-10	X	.007	.007	0	%100
23	MP-9	X	.007	.007	0	%100
24	MP-8	X	.007	.007	0	%100
25	MP-7	X	.007	.007	0	%100
26	MP-6	X	.007	.007	0	%100
27	MP-5	X	.007	.007	0	%100
28	FFTH	X	.006	.006	0	%100
29	SF1-TH 1	X	.007	.007	0	%100
30	SF2-TH 1	X	.002	.002	0	%100
31	SA-1	X	.001	.001	0	%100
32	SA-2	X	.005	.005	0	%100
33	SA-3	X	.004	.004	0	%100
34	GSI-1 1	X	.005	.005	0	%100
35	GSI-2 1	X	.001	.001	0	%100
36	GSI-3 1	X	.004	.004	0	%100
37	GSI-1	Z	.003	.003	0	%100
38	GSI-2	Z	.009	.009	0	%100
39	GSI-3	Z	.01	.01	0	%100
40	FF-TH	Z	.01	.01	0	%100
41	SF1-TH	Z	.004	.004	0	%100
42	SF2-TH	Z	.014	.014	0	%100
43	GSIP-1	Z	.01	.01	0	%100
44	GSIP-2	Z	.004	.004	0	%100
45	GSIP-3	Z	.014	.014	0	%100
46	SA-1A	Z	.008	.008	0	%100
47	SA-2A	Z	.011	.011	0	%100
48	SA-3A	Z	.003	.003	0	%100
49	SA-1B	Z	.01	.01	0	%100
50	SA-2B	Z	.013	.013	0	%100
51	SA-3C	Z	.003	.003	0	%100
52	MP-4	Z	.007	.007	0	%100
53	MP-3	Z	.007	.007	0	%100
54	MP-2	Z	.007	.007	0	%100
55	MP-1	Z	.007	.007	0	%100
56	MP-12	Z	.007	.007	0	%100
57	MP-11	Z	.007	.007	0	%100
58	MP-10	Z	.007	.007	0	%100
59	MP-9	Z	.007	.007	0	%100
60	MP-8	Z	.007	.007	0	%100



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Member Distributed Loads (BLC 12 : 225 Wind - No Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F...	Start Location[ft.%]	End Location[ft.%]	
61	MP-7	Z	.007	.007	0	%100
62	MP-6	Z	.007	.007	0	%100
63	MP-5	Z	.007	.007	0	%100
64	FFTH	Z	.006	.006	0	%100
65	SF1-TH 1	Z	.008	.008	0	%100
66	SF2-TH 1	Z	.002	.002	0	%100
67	SA-1	Z	.001	.001	0	%100
68	SA-2	Z	.005	.005	0	%100
69	SA-3	Z	.004	.004	0	%100
70	GSI-1 1	Z	.005	.005	0	%100
71	GSI-2 1	Z	.001	.001	0	%100
72	GSI-3 1	Z	.004	.004	0	%100

Member Distributed Loads (BLC 13 : 240 Wind - No Ice)

Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F...	Start Location[ft.%]	End Location[ft.%]	
1	GSI-1	X	0	0	0	%100
2	GSI-2	X	.005	.005	0	%100
3	GSI-3	X	.007	.007	0	%100
4	FF-TH	X	.005	.005	0	%100
5	SF1-TH	X	.005	.005	0	%100
6	SF2-TH	X	.01	.01	0	%100
7	GSIP-1	X	.005	.005	0	%100
8	GSIP-2	X	.004	.004	0	%100
9	GSIP-3	X	.008	.008	0	%100
10	SA-1A	X	.007	.007	0	%100
11	SA-2A	X	.007	.007	0	%100
12	SA-3A	X	.000145	.000145	0	%100
13	SA-1B	X	.008	.008	0	%100
14	SA-2B	X	.009	.009	0	%100
15	SA-3C	X	.000182	.000182	0	%100
16	MP-4	X	.005	.005	0	%100
17	MP-3	X	.005	.005	0	%100
18	MP-2	X	.005	.005	0	%100
19	MP-1	X	.005	.005	0	%100
20	MP-12	X	.005	.005	0	%100
21	MP-11	X	.005	.005	0	%100
22	MP-10	X	.005	.005	0	%100
23	MP-9	X	.005	.005	0	%100
24	MP-8	X	.005	.005	0	%100
25	MP-7	X	.005	.005	0	%100
26	MP-6	X	.005	.005	0	%100
27	MP-5	X	.005	.005	0	%100
28	FFTH	X	.003	.003	0	%100
29	SF1-TH 1	X	.005	.005	0	%100
30	SF2-TH 1	X	.003	.003	0	%100
31	SA-1	X	0	0	0	%100
32	SA-2	X	.003	.003	0	%100
33	SA-3	X	.004	.004	0	%100
34	GSI-1 1	X	.003	.003	0	%100
35	GSI-2 1	X	.002	.002	0	%100
36	GSI-3 1	X	.002	.002	0	%100



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Member Distributed Loads (BLC 13 : 240 Wind - No Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F...	Start Location[ft.%]	End Location[ft.%]	
37	GSI-1	Z	0	0	0	%100
38	GSI-2	Z	.013	.013	0	%100
39	GSI-3	Z	.011	.011	0	%100
40	FF-TH	Z	.009	.009	0	%100
41	SF1-TH	Z	.009	.009	0	%100
42	SF2-TH	Z	.018	.018	0	%100
43	GSIP-1	Z	.009	.009	0	%100
44	GSIP-2	Z	.009	.009	0	%100
45	GSIP-3	Z	.017	.017	0	%100
46	SA-1A	Z	.012	.012	0	%100
47	SA-2A	Z	.012	.012	0	%100
48	SA-3A	Z	.000252	.000252	0	%100
49	SA-1B	Z	.016	.016	0	%100
50	SA-2B	Z	.014	.014	0	%100
51	SA-3C	Z	.000293	.000293	0	%100
52	MP-4	Z	.008	.008	0	%100
53	MP-3	Z	.008	.008	0	%100
54	MP-2	Z	.008	.008	0	%100
55	MP-1	Z	.008	.008	0	%100
56	MP-12	Z	.008	.008	0	%100
57	MP-11	Z	.008	.008	0	%100
58	MP-10	Z	.008	.008	0	%100
59	MP-9	Z	.008	.008	0	%100
60	MP-8	Z	.008	.008	0	%100
61	MP-7	Z	.008	.008	0	%100
62	MP-6	Z	.008	.008	0	%100
63	MP-5	Z	.008	.008	0	%100
64	FFTH	Z	.005	.005	0	%100
65	SF1-TH 1	Z	.01	.01	0	%100
66	SF2-TH 1	Z	.005	.005	0	%100
67	SA-1	Z	0	0	0	%100
68	SA-2	Z	.006	.006	0	%100
69	SA-3	Z	.006	.006	0	%100
70	GSI-1 1	Z	.007	.007	0	%100
71	GSI-2 1	Z	.003	.003	0	%100
72	GSI-3 1	Z	.004	.004	0	%100

Member Distributed Loads (BLC 14 : 270 Wind - No Ice)

Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F...	Start Location[ft.%]	End Location[ft.%]	
1	GSI-1	Z	.007	.007	0	%100
2	GSI-2	Z	.017	.017	0	%100
3	GSI-3	Z	.007	.007	0	%100
4	FF-TH	Z	0	0	0	%100
5	SF1-TH	Z	.018	.018	0	%100
6	SF2-TH	Z	.018	.018	0	%100
7	GSIP-1	Z	0	0	0	%100
8	GSIP-2	Z	.017	.017	0	%100
9	GSIP-3	Z	.017	.017	0	%100
10	SA-1A	Z	.016	.016	0	%100
11	SA-2A	Z	.008	.008	0	%100
12	SA-3A	Z	.008	.008	0	%100



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 Designer : ARH
 Job Number : 72875.638741
 Model Name : CCsites BU No. 876310

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Member Distributed Loads (BLC 14 : 270 Wind - No Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft, %]	End Location[ft, %]
13	SA-1B	Z	.021	.021	0 %100
14	SA-2B	Z	.01	.01	0 %100
15	SA-3C	Z	.01	.01	0 %100
16	MP-4	Z	.01	.01	0 %100
17	MP-3	Z	.01	.01	0 %100
18	MP-2	Z	.01	.01	0 %100
19	MP-1	Z	.01	.01	0 %100
20	MP-12	Z	.01	.01	0 %100
21	MP-11	Z	.01	.01	0 %100
22	MP-10	Z	.01	.01	0 %100
23	MP-9	Z	.01	.01	0 %100
24	MP-8	Z	.01	.01	0 %100
25	MP-7	Z	.01	.01	0 %100
26	MP-6	Z	.01	.01	0 %100
27	MP-5	Z	.01	.01	0 %100
28	FFTH	Z	0	0	0 %100
29	SF1-TH 1	Z	.01	.01	0 %100
30	SF2-TH 1	Z	.01	.01	0 %100
31	SA-1	Z	.004	.004	0 %100
32	SA-2	Z	.004	.004	0 %100
33	SA-3	Z	.008	.008	0 %100
34	GSI-1 1	Z	.007	.007	0 %100
35	GSI-2 1	Z	.007	.007	0 %100
36	GSI-3 1	Z	0	0	0 %100

Member Distributed Loads (BLC 15 : 300 Wind - No Ice)

Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	GSI-1	X	-.007	-.007	0 %100
2	GSI-2	X	-.005	-.005	0 %100
3	GSI-3	X	0	0	0 %100
4	FF-TH	X	-.005	-.005	0 %100
5	SF1-TH	X	-.01	-.01	0 %100
6	SF2-TH	X	-.005	-.005	0 %100
7	GSIP-1	X	-.005	-.005	0 %100
8	GSIP-2	X	-.008	-.008	0 %100
9	GSIP-3	X	-.004	-.004	0 %100
10	SA-1A	X	-.007	-.007	0 %100
11	SA-2A	X	-.000145	-.000145	0 %100
12	SA-3A	X	-.007	-.007	0 %100
13	SA-1B	X	-.008	-.008	0 %100
14	SA-2B	X	-.000182	-.000182	0 %100
15	SA-3C	X	-.009	-.009	0 %100
16	MP-4	X	-.005	-.005	0 %100
17	MP-3	X	-.005	-.005	0 %100
18	MP-2	X	-.005	-.005	0 %100
19	MP-1	X	-.005	-.005	0 %100
20	MP-12	X	-.005	-.005	0 %100
21	MP-11	X	-.005	-.005	0 %100
22	MP-10	X	-.005	-.005	0 %100
23	MP-9	X	-.005	-.005	0 %100
24	MP-8	X	-.005	-.005	0 %100



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Member Distributed Loads (BLC 15 : 300 Wind - No Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft, %]	End Location[ft, %]
25	MP-7	X	-.005	-.005	0 %100
26	MP-6	X	-.005	-.005	0 %100
27	MP-5	X	-.005	-.005	0 %100
28	FFTH	X	-.003	-.003	0 %100
29	SF1-TH 1	X	-.003	-.003	0 %100
30	SF2-TH 1	X	-.005	-.005	0 %100
31	SA-1	X	-.003	-.003	0 %100
32	SA-2	X	0	0	0 %100
33	SA-3	X	-.004	-.004	0 %100
34	GSI-1 1	X	-.002	-.002	0 %100
35	GSI-2 1	X	-.003	-.003	0 %100
36	GSI-3 1	X	-.002	-.002	0 %100
37	GSI-1	Z	.011	.011	0 %100
38	GSI-2	Z	.013	.013	0 %100
39	GSI-3	Z	0	0	0 %100
40	FF-TH	Z	.009	.009	0 %100
41	SF1-TH	Z	.018	.018	0 %100
42	SF2-TH	Z	.009	.009	0 %100
43	GSIP-1	Z	.009	.009	0 %100
44	GSIP-2	Z	.017	.017	0 %100
45	GSIP-3	Z	.009	.009	0 %100
46	SA-1A	Z	.012	.012	0 %100
47	SA-2A	Z	.000252	.000252	0 %100
48	SA-3A	Z	.012	.012	0 %100
49	SA-1B	Z	.016	.016	0 %100
50	SA-2B	Z	.000293	.000293	0 %100
51	SA-3C	Z	.014	.014	0 %100
52	MP-4	Z	.008	.008	0 %100
53	MP-3	Z	.008	.008	0 %100
54	MP-2	Z	.008	.008	0 %100
55	MP-1	Z	.008	.008	0 %100
56	MP-12	Z	.008	.008	0 %100
57	MP-11	Z	.008	.008	0 %100
58	MP-10	Z	.008	.008	0 %100
59	MP-9	Z	.008	.008	0 %100
60	MP-8	Z	.008	.008	0 %100
61	MP-7	Z	.008	.008	0 %100
62	MP-6	Z	.008	.008	0 %100
63	MP-5	Z	.008	.008	0 %100
64	FFTH	Z	.005	.005	0 %100
65	SF1-TH 1	Z	.005	.005	0 %100
66	SF2-TH 1	Z	.01	.01	0 %100
67	SA-1	Z	.006	.006	0 %100
68	SA-2	Z	0	0	0 %100
69	SA-3	Z	.006	.006	0 %100
70	GSI-1 1	Z	.003	.003	0 %100
71	GSI-2 1	Z	.007	.007	0 %100
72	GSI-3 1	Z	.004	.004	0 %100

Member Distributed Loads (BLC 16 : 315 Wind - No Ice)

Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft, %]	End Location[ft, %]
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Member Distributed Loads (BLC 16 : 315 Wind - No Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F...	Start Location[ft.%]	End Location[ft.%]	
1	GSI-1	X	-.011	-.011	0	%100
2	GSI-2	X	-.006	-.006	0	%100
3	GSI-3	X	-.003	-.003	0	%100
4	FF-TH	X	-.01	-.01	0	%100
5	SF1-TH	X	-.014	-.014	0	%100
6	SF2-TH	X	-.004	-.004	0	%100
7	GSIP-1	X	-.01	-.01	0	%100
8	GSIP-2	X	-.011	-.011	0	%100
9	GSIP-3	X	-.003	-.003	0	%100
10	SA-1A	X	-.008	-.008	0	%100
11	SA-2A	X	-.003	-.003	0	%100
12	SA-3A	X	-.011	-.011	0	%100
13	SA-1B	X	-.009	-.009	0	%100
14	SA-2B	X	-.003	-.003	0	%100
15	SA-3C	X	-.014	-.014	0	%100
16	MP-4	X	-.007	-.007	0	%100
17	MP-3	X	-.007	-.007	0	%100
18	MP-2	X	-.007	-.007	0	%100
19	MP-1	X	-.007	-.007	0	%100
20	MP-12	X	-.007	-.007	0	%100
21	MP-11	X	-.007	-.007	0	%100
22	MP-10	X	-.007	-.007	0	%100
23	MP-9	X	-.007	-.007	0	%100
24	MP-8	X	-.007	-.007	0	%100
25	MP-7	X	-.007	-.007	0	%100
26	MP-6	X	-.007	-.007	0	%100
27	MP-5	X	-.007	-.007	0	%100
28	FFTH	X	-.006	-.006	0	%100
29	SF1-TH 1	X	-.002	-.002	0	%100
30	SF2-TH 1	X	-.007	-.007	0	%100
31	SA-1	X	-.005	-.005	0	%100
32	SA-2	X	-.001	-.001	0	%100
33	SA-3	X	-.004	-.004	0	%100
34	GSI-1 1	X	-.001	-.001	0	%100
35	GSI-2 1	X	-.005	-.005	0	%100
36	GSI-3 1	X	-.004	-.004	0	%100
37	GSI-1	Z	.01	.01	0	%100
38	GSI-2	Z	.009	.009	0	%100
39	GSI-3	Z	.003	.003	0	%100
40	FF-TH	Z	.01	.01	0	%100
41	SF1-TH	Z	.014	.014	0	%100
42	SF2-TH	Z	.004	.004	0	%100
43	GSIP-1	Z	.01	.01	0	%100
44	GSIP-2	Z	.014	.014	0	%100
45	GSIP-3	Z	.004	.004	0	%100
46	SA-1A	Z	.008	.008	0	%100
47	SA-2A	Z	.003	.003	0	%100
48	SA-3A	Z	.011	.011	0	%100
49	SA-1B	Z	.01	.01	0	%100
50	SA-2B	Z	.003	.003	0	%100
51	SA-3C	Z	.013	.013	0	%100
52	MP-4	Z	.007	.007	0	%100



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Member Distributed Loads (BLC 16 : 315 Wind - No Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F...	Start Location[ft.%]	End Location[ft.%]	
53	MP-3	Z	.007	.007	0	%100
54	MP-2	Z	.007	.007	0	%100
55	MP-1	Z	.007	.007	0	%100
56	MP-12	Z	.007	.007	0	%100
57	MP-11	Z	.007	.007	0	%100
58	MP-10	Z	.007	.007	0	%100
59	MP-9	Z	.007	.007	0	%100
60	MP-8	Z	.007	.007	0	%100
61	MP-7	Z	.007	.007	0	%100
62	MP-6	Z	.007	.007	0	%100
63	MP-5	Z	.007	.007	0	%100
64	FFTH	Z	.006	.006	0	%100
65	SF1-TH 1	Z	.002	.002	0	%100
66	SF2-TH 1	Z	.008	.008	0	%100
67	SA-1	Z	.005	.005	0	%100
68	SA-2	Z	.001	.001	0	%100
69	SA-3	Z	.004	.004	0	%100
70	GSI-1 1	Z	.001	.001	0	%100
71	GSI-2 1	Z	.005	.005	0	%100
72	GSI-3 1	Z	.004	.004	0	%100

Member Distributed Loads (BLC 17 : 330 Wind - No Ice)

Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F...	Start Location[ft.%]	End Location[ft.%]	
1	GSI-1	X	-.014	-.014	0	%100
2	GSI-2	X	-.005	-.005	0	%100
3	GSI-3	X	-.007	-.007	0	%100
4	FF-TH	X	-.015	-.015	0	%100
5	SF1-TH	X	-.015	-.015	0	%100
6	SF2-TH	X	0	0	0	%100
7	GSIP-1	X	-.015	-.015	0	%100
8	GSIP-2	X	-.012	-.012	0	%100
9	GSIP-3	X	0	0	0	%100
10	SA-1A	X	-.007	-.007	0	%100
11	SA-2A	X	-.007	-.007	0	%100
12	SA-3A	X	-.014	-.014	0	%100
13	SA-1B	X	-.008	-.008	0	%100
14	SA-2B	X	-.009	-.009	0	%100
15	SA-3C	X	-.018	-.018	0	%100
16	MP-4	X	-.008	-.008	0	%100
17	MP-3	X	-.008	-.008	0	%100
18	MP-2	X	-.008	-.008	0	%100
19	MP-1	X	-.008	-.008	0	%100
20	MP-12	X	-.008	-.008	0	%100
21	MP-11	X	-.008	-.008	0	%100
22	MP-10	X	-.008	-.008	0	%100
23	MP-9	X	-.008	-.008	0	%100
24	MP-8	X	-.008	-.008	0	%100
25	MP-7	X	-.008	-.008	0	%100
26	MP-6	X	-.008	-.008	0	%100
27	MP-5	X	-.008	-.008	0	%100
28	FFTH	X	-.009	-.009	0	%100



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Member Distributed Loads (BLC 17 : 330 Wind - No Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location(ft,%)	End Location(ft,%)	
29	SF1-TH 1	X	0	0	%100	
30	SF2-TH 1	X	-.008	-.008	0	%100
31	SA-1	X	-.007	-.007	0	%100
32	SA-2	X	-.003	-.003	0	%100
33	SA-3	X	-.004	-.004	0	%100
34	GSI-1 1	X	0	0	0	%100
35	GSI-2 1	X	-.005	-.005	0	%100
36	GSI-3 1	X	-.006	-.006	0	%100
37	GSI-1	Z	.007	.007	0	%100
38	GSI-2	Z	.004	.004	0	%100
39	GSI-3	Z	.004	.004	0	%100
40	FF-TH	Z	.009	.009	0	%100
41	SF1-TH	Z	.009	.009	0	%100
42	SF2-TH	Z	0	0	0	%100
43	GSIP-1	Z	.009	.009	0	%100
44	GSIP-2	Z	.009	.009	0	%100
45	GSIP-3	Z	0	0	0	%100
46	SA-1A	Z	.004	.004	0	%100
47	SA-2A	Z	.004	.004	0	%100
48	SA-3A	Z	.008	.008	0	%100
49	SA-1B	Z	.005	.005	0	%100
50	SA-2B	Z	.005	.005	0	%100
51	SA-3C	Z	.009	.009	0	%100
52	MP-4	Z	.005	.005	0	%100
53	MP-3	Z	.005	.005	0	%100
54	MP-2	Z	.005	.005	0	%100
55	MP-1	Z	.005	.005	0	%100
56	MP-12	Z	.005	.005	0	%100
57	MP-11	Z	.005	.005	0	%100
58	MP-10	Z	.005	.005	0	%100
59	MP-9	Z	.005	.005	0	%100
60	MP-8	Z	.005	.005	0	%100
61	MP-7	Z	.005	.005	0	%100
62	MP-6	Z	.005	.005	0	%100
63	MP-5	Z	.005	.005	0	%100
64	FFTH	Z	.005	.005	0	%100
65	SF1-TH 1	Z	0	0	0	%100
66	SF2-TH 1	Z	.005	.005	0	%100
67	SA-1	Z	.004	.004	0	%100
68	SA-2	Z	.002	.002	0	%100
69	SA-3	Z	.002	.002	0	%100
70	GSI-1 1	Z	0	0	0	%100
71	GSI-2 1	Z	.003	.003	0	%100
72	GSI-3 1	Z	.004	.004	0	%100

Member Distributed Loads (BLC 18 : Ice Weight)

Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location(ft,%)	End Location(ft,%)	
1	GSI-1	Y	-.008	-.008	0	%100
2	GSI-2	Y	-.008	-.008	0	%100
3	GSI-3	Y	-.008	-.008	0	%100
4	FF-TH	Y	-.005	-.005	0	%100



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Member Distributed Loads (BLC 18 : Ice Weight) (Continued)

Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location(ft,%)	End Location(ft,%)	
5	SF1-TH	Y	-.005	-.005	0	%100
6	SF2-TH	Y	-.005	-.005	0	%100
7	GSIP-1	Y	-.005	-.005	0	%100
8	GSIP-2	Y	-.005	-.005	0	%100
9	GSIP-3	Y	-.005	-.005	0	%100
10	SA-1A	Y	-.008	-.008	0	%100
11	SA-2A	Y	-.008	-.008	0	%100
12	SA-3A	Y	-.008	-.008	0	%100
13	SA-1B	Y	-.009	-.009	0	%100
14	SA-2B	Y	-.009	-.009	0	%100
15	SA-3C	Y	-.009	-.009	0	%100
16	MP-4	Y	-.005	-.005	0	%100
17	MP-3	Y	-.005	-.005	0	%100
18	MP-2	Y	-.005	-.005	0	%100
19	MP-1	Y	-.005	-.005	0	%100
20	MP-12	Y	-.005	-.005	0	%100
21	MP-11	Y	-.005	-.005	0	%100
22	MP-10	Y	-.005	-.005	0	%100
23	MP-9	Y	-.005	-.005	0	%100
24	MP-8	Y	-.005	-.005	0	%100
25	MP-7	Y	-.005	-.005	0	%100
26	MP-6	Y	-.005	-.005	0	%100
27	MP-5	Y	-.005	-.005	0	%100
28	FFTH	Y	-.006	-.006	0	%100
29	SF1-TH 1	Y	-.006	-.006	0	%100
30	SF2-TH 1	Y	-.006	-.006	0	%100
31	SA-1	Y	-.008	-.008	0	%100
32	SA-2	Y	-.008	-.008	0	%100
33	SA-3	Y	-.008	-.008	0	%100
34	GSI-1 1	Y	-.007	-.007	0	%100
35	GSI-2 1	Y	-.007	-.007	0	%100
36	GSI-3 1	Y	-.007	-.007	0	%100

Member Distributed Loads (BLC 19 : 0 Wind - Ice)

Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location(ft,%)	End Location(ft,%)	
1	GSI-1	X	-.005	-.005	0	%100
2	GSI-2	X	-.004	-.004	0	%100
3	GSI-3	X	-.005	-.005	0	%100
4	FF-TH	X	-.006	-.006	0	%100
5	SF1-TH	X	-.005	-.005	0	%100
6	SF2-TH	X	-.005	-.005	0	%100
7	GSIP-1	X	-.005	-.005	0	%100
8	GSIP-2	X	-.005	-.005	0	%100
9	GSIP-3	X	-.005	-.005	0	%100
10	SA-1A	X	-.005	-.005	0	%100
11	SA-2A	X	-.005	-.005	0	%100
12	SA-3A	X	-.005	-.005	0	%100
13	SA-1B	X	-.005	-.005	0	%100
14	SA-2B	X	-.005	-.005	0	%100
15	SA-3C	X	-.005	-.005	0	%100
16	MP-4	X	-.003	-.003	0	%100



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Member Distributed Loads (BLC 19 : 0 Wind - Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F...	Start Location[ft.%]	End Location[ft.%]	
17	MP-3	X	-0.003	-0.003	0	%100
18	MP-2	X	-0.003	-0.003	0	%100
19	MP-1	X	-0.003	-0.003	0	%100
20	MP-12	X	-0.003	-0.003	0	%100
21	MP-11	X	-0.003	-0.003	0	%100
22	MP-10	X	-0.003	-0.003	0	%100
23	MP-9	X	-0.003	-0.003	0	%100
24	MP-8	X	-0.003	-0.003	0	%100
25	MP-7	X	-0.003	-0.003	0	%100
26	MP-6	X	-0.003	-0.003	0	%100
27	MP-5	X	-0.003	-0.003	0	%100
28	FFTH	X	-0.004	-0.004	0	%100
29	SF1-TH 1	X	-0.003	-0.003	0	%100
30	SF2-TH 1	X	-0.003	-0.003	0	%100
31	SA-1	X	-0.003	-0.003	0	%100
32	SA-2	X	-0.003	-0.003	0	%100
33	SA-3	X	-0.003	-0.003	0	%100
34	GSI-1 1	X	-0.003	-0.003	0	%100
35	GSI-2 1	X	-0.003	-0.003	0	%100
36	GSI-3 1	X	-0.003	-0.003	0	%100

Member Distributed Loads (BLC 20 : 30 Wind - Ice)

Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F...	Start Location[ft.%]	End Location[ft.%]	
1	GSI-1	X	-0.002	-0.002	0	%100
2	GSI-2	X	-0.002	-0.002	0	%100
3	GSI-3	X	-0.004	-0.004	0	%100
4	FF-TH	X	-0.005	-0.005	0	%100
5	SF1-TH	X	0	0	0	%100
6	SF2-TH	X	-0.004	-0.004	0	%100
7	GSIP-1	X	-0.004	-0.004	0	%100
8	GSIP-2	X	0	0	0	%100
9	GSIP-3	X	-0.003	-0.003	0	%100
10	SA-1A	X	-0.002	-0.002	0	%100
11	SA-2A	X	-0.005	-0.005	0	%100
12	SA-3A	X	-0.002	-0.002	0	%100
13	SA-1B	X	-0.002	-0.002	0	%100
14	SA-2B	X	-0.005	-0.005	0	%100
15	SA-3C	X	-0.002	-0.002	0	%100
16	MP-4	X	-0.002	-0.002	0	%100
17	MP-3	X	-0.002	-0.002	0	%100
18	MP-2	X	-0.002	-0.002	0	%100
19	MP-1	X	-0.002	-0.002	0	%100
20	MP-12	X	-0.002	-0.002	0	%100
21	MP-11	X	-0.002	-0.002	0	%100
22	MP-10	X	-0.002	-0.002	0	%100
23	MP-9	X	-0.002	-0.002	0	%100
24	MP-8	X	-0.002	-0.002	0	%100
25	MP-7	X	-0.002	-0.002	0	%100
26	MP-6	X	-0.002	-0.002	0	%100
27	MP-5	X	-0.002	-0.002	0	%100
28	FFTH	X	-0.003	-0.003	0	%100



Company : Tower Engineering Professionals, Inc.
 Designer : ARH
 Job Number : 72875.638741
 Model Name : CCISites BU No. 876310

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Member Distributed Loads (BLC 20 : 30 Wind - Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F...	Start Location[ft.%]	End Location[ft.%]	
29	SF1-TH 1	X	-0.002	-0.002	0	%100
30	SF2-TH 1	X	0	0	0	%100
31	SA-1	X	-0.001	-0.001	0	%100
32	SA-2	X	-0.003	-0.003	0	%100
33	SA-3	X	-0.001	-0.001	0	%100
34	GSI-1 1	X	-0.002	-0.002	0	%100
35	GSI-2 1	X	0	0	0	%100
36	GSI-3 1	X	-0.002	-0.002	0	%100
37	GSI-1	Z	-0.001	-0.001	0	%100
38	GSI-2	Z	-0.001	-0.001	0	%100
39	GSI-3	Z	-0.002	-0.002	0	%100
40	FF-TH	Z	-0.002	-0.002	0	%100
41	SF1-TH	Z	0	0	0	%100
42	SF2-TH	Z	-0.003	-0.003	0	%100
43	GSIP-1	Z	-0.002	-0.002	0	%100
44	GSIP-2	Z	0	0	0	%100
45	GSIP-3	Z	-0.002	-0.002	0	%100
46	SA-1A	Z	-0.001	-0.001	0	%100
47	SA-2A	Z	-0.003	-0.003	0	%100
48	SA-3A	Z	-0.001	-0.001	0	%100
49	SA-1B	Z	-0.001	-0.001	0	%100
50	SA-2B	Z	-0.003	-0.003	0	%100
51	SA-3C	Z	-0.001	-0.001	0	%100
52	MP-4	Z	-0.002	-0.002	0	%100
53	MP-3	Z	-0.001	-0.001	0	%100
54	MP-2	Z	-0.001	-0.001	0	%100
55	MP-1	Z	-0.001	-0.001	0	%100
56	MP-12	Z	-0.002	-0.002	0	%100
57	MP-11	Z	-0.001	-0.001	0	%100
58	MP-10	Z	-0.001	-0.001	0	%100
59	MP-9	Z	-0.001	-0.001	0	%100
60	MP-8	Z	-0.002	-0.002	0	%100
61	MP-7	Z	-0.001	-0.001	0	%100
62	MP-6	Z	-0.001	-0.001	0	%100
63	MP-5	Z	-0.001	-0.001	0	%100
64	FFTH	Z	-0.002	-0.002	0	%100
65	SF1-TH 1	Z	-0.002	-0.002	0	%100
66	SF2-TH 1	Z	0	0	0	%100
67	SA-1	Z	-0.000756	-0.000756	0	%100
68	SA-2	Z	-0.002	-0.002	0	%100
69	SA-3	Z	-0.000838	-0.000838	0	%100
70	GSI-1 1	Z	-0.001	-0.001	0	%100
71	GSI-2 1	Z	0	0	0	%100
72	GSI-3 1	Z	-0.001	-0.001	0	%100

Member Distributed Loads (BLC 21 : 45 Wind - Ice)

Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F...	Start Location[ft.%]	End Location[ft.%]	
1	GSI-1	X	-0.00085	-0.00085	0	%100
2	GSI-2	X	-0.002	-0.002	0	%100
3	GSI-3	X	-0.003	-0.003	0	%100
4	FF-TH	X	-0.003	-0.003	0	%100



Company : Tower Engineering Professionals, Inc.
 Designer : ARH
 Job Number : 72875.638741
 Model Name : CCsites BU No. 876310

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Member Distributed Loads (BLC 21 : 45 Wind - Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F...	Start Location[ft.%]	End Location[ft.%]
5	SF1-TH	X	-0.00977	-0.00977	0 %100
6	SF2-TH	X	-0.004	-0.004	0 %100
7	GSIP-1	X	-0.003	-0.003	0 %100
8	GSIP-2	X	-0.00084	-0.00084	0 %100
9	GSIP-3	X	-0.003	-0.003	0 %100
10	SA-1A	X	-0.003	-0.003	0 %100
11	SA-2A	X	-0.004	-0.004	0 %100
12	SA-3A	X	-0.000904	-0.000904	0 %100
13	SA-1B	X	-0.003	-0.003	0 %100
14	SA-2B	X	-0.004	-0.004	0 %100
15	SA-3C	X	-0.000922	-0.000922	0 %100
16	MP-4	X	-0.002	-0.002	0 %100
17	MP-3	X	-0.002	-0.002	0 %100
18	MP-2	X	-0.002	-0.002	0 %100
19	MP-1	X	-0.002	-0.002	0 %100
20	MP-12	X	-0.002	-0.002	0 %100
21	MP-11	X	-0.002	-0.002	0 %100
22	MP-10	X	-0.002	-0.002	0 %100
23	MP-9	X	-0.002	-0.002	0 %100
24	MP-8	X	-0.002	-0.002	0 %100
25	MP-7	X	-0.002	-0.002	0 %100
26	MP-6	X	-0.002	-0.002	0 %100
27	MP-5	X	-0.002	-0.002	0 %100
28	FFTH	X	-0.002	-0.002	0 %100
29	SF1-TH 1	X	-0.002	-0.002	0 %100
30	SF2-TH 1	X	-0.00059	-0.00059	0 %100
31	SA-1	X	-0.000597	-0.000597	0 %100
32	SA-2	X	-0.002	-0.002	0 %100
33	SA-3	X	-0.001	-0.001	0 %100
34	GSI-1 1	X	-0.002	-0.002	0 %100
35	GSI-2 1	X	-0.000481	-0.000481	0 %100
36	GSI-3 1	X	-0.001	-0.001	0 %100
37	GSI-1	Z	-0.000771	-0.000771	0 %100
38	GSI-2	Z	-0.002	-0.002	0 %100
39	GSI-3	Z	-0.003	-0.003	0 %100
40	FF-TH	Z	-0.003	-0.003	0 %100
41	SF1-TH	Z	-0.001	-0.001	0 %100
42	SF2-TH	Z	-0.004	-0.004	0 %100
43	GSIP-1	Z	-0.002	-0.002	0 %100
44	GSIP-2	Z	-0.000955	-0.000955	0 %100
45	GSIP-3	Z	-0.004	-0.004	0 %100
46	SA-1A	Z	-0.003	-0.003	0 %100
47	SA-2A	Z	-0.004	-0.004	0 %100
48	SA-3A	Z	-0.000904	-0.000904	0 %100
49	SA-1B	Z	-0.003	-0.003	0 %100
50	SA-2B	Z	-0.004	-0.004	0 %100
51	SA-3C	Z	-0.000874	-0.000874	0 %100
52	MP-4	Z	-0.002	-0.002	0 %100
53	MP-3	Z	-0.002	-0.002	0 %100
54	MP-2	Z	-0.002	-0.002	0 %100
55	MP-1	Z	-0.002	-0.002	0 %100
56	MP-12	Z	-0.002	-0.002	0 %100



Company : Tower Engineering Professionals, Inc.
 Designer : ARH
 Job Number : 72875.638741
 Model Name : CCsites BU No. 876310

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Member Distributed Loads (BLC 21 : 45 Wind - Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F...	Start Location[ft.%]	End Location[ft.%]
57	MP-11	Z	-0.002	-0.002	0 %100
58	MP-10	Z	-0.002	-0.002	0 %100
59	MP-9	Z	-0.002	-0.002	0 %100
60	MP-8	Z	-0.002	-0.002	0 %100
61	MP-7	Z	-0.002	-0.002	0 %100
62	MP-6	Z	-0.002	-0.002	0 %100
63	MP-5	Z	-0.002	-0.002	0 %100
64	FFTH	Z	-0.002	-0.002	0 %100
65	SF1-TH 1	Z	-0.003	-0.003	0 %100
66	SF2-TH 1	Z	-0.000722	-0.000722	0 %100
67	SA-1	Z	-0.000553	-0.000553	0 %100
68	SA-2	Z	-0.002	-0.002	0 %100
69	SA-3	Z	-0.002	-0.002	0 %100
70	GSI-1 1	Z	-0.002	-0.002	0 %100
71	GSI-2 1	Z	-0.000525	-0.000525	0 %100
72	GSI-3 1	Z	-0.001	-0.001	0 %100

Member Distributed Loads (BLC 22 : 60 Wind - Ice)

Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	GSI-1	X	0	0	0 %100
2	GSI-2	X	-0.002	-0.002	0 %100
3	GSI-3	X	-0.002	-0.002	0 %100
4	FF-TH	X	-0.002	-0.002	0 %100
5	SF1-TH	X	-0.001	-0.001	0 %100
6	SF2-TH	X	-0.003	-0.003	0 %100
7	GSIP-1	X	-0.001	-0.001	0 %100
8	GSIP-2	X	-0.001	-0.001	0 %100
9	GSIP-3	X	-0.002	-0.002	0 %100
10	SA-1A	X	-0.002	-0.002	0 %100
11	SA-2A	X	-0.002	-0.002	0 %100
12	SA-3A	X	-4.8e-5	-4.8e-5	0 %100
13	SA-1B	X	-0.002	-0.002	0 %100
14	SA-2B	X	-0.002	-0.002	0 %100
15	SA-3C	X	-4.9e-5	-4.9e-5	0 %100
16	MP-4	X	-0.001	-0.001	0 %100
17	MP-3	X	-0.001	-0.001	0 %100
18	MP-2	X	-0.001	-0.001	0 %100
19	MP-1	X	-0.001	-0.001	0 %100
20	MP-12	X	-0.001	-0.001	0 %100
21	MP-11	X	-0.001	-0.001	0 %100
22	MP-10	X	-0.001	-0.001	0 %100
23	MP-9	X	-0.001	-0.001	0 %100
24	MP-8	X	-0.001	-0.001	0 %100
25	MP-7	X	-0.001	-0.001	0 %100
26	MP-6	X	-0.001	-0.001	0 %100
27	MP-5	X	-0.001	-0.001	0 %100
28	FFTH	X	-0.001	-0.001	0 %100
29	SF1-TH 1	X	-0.002	-0.002	0 %100
30	SF2-TH 1	X	-0.000805	-0.000805	0 %100
31	SA-1	X	0	0	0 %100
32	SA-2	X	-0.001	-0.001	0 %100



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Member Distributed Loads (BLC 22 : 60 Wind - Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F...	Start Location[ft.%]	End Location[ft.%]	
33	SA-3	X	-.001	-.001	0	%100
34	GSI-1 1	X	-.001	-.001	0	%100
35	GSI-2 1	X	-.000657	-.000657	0	%100
36	GSI-3 1	X	-.000739	-.000739	0	%100
37	GSI-1	Z	0	0	0	%100
38	GSI-2	Z	-.004	-.004	0	%100
39	GSI-3	Z	-.003	-.003	0	%100
40	FF-TH	Z	-.002	-.002	0	%100
41	SF1-TH	Z	-.003	-.003	0	%100
42	SF2-TH	Z	-.005	-.005	0	%100
43	GSIP-1	Z	-.002	-.002	0	%100
44	GSIP-2	Z	-.002	-.002	0	%100
45	GSIP-3	Z	-.005	-.005	0	%100
46	SA-1A	Z	-.004	-.004	0	%100
47	SA-2A	Z	-.004	-.004	0	%100
48	SA-3A	Z	-8.2e-5	-8.2e-5	0	%100
49	SA-1B	Z	-.004	-.004	0	%100
50	SA-2B	Z	-.004	-.004	0	%100
51	SA-3C	Z	-8e-5	-8e-5	0	%100
52	MP-4	Z	-.003	-.003	0	%100
53	MP-3	Z	-.003	-.003	0	%100
54	MP-2	Z	-.003	-.003	0	%100
55	MP-1	Z	-.002	-.002	0	%100
56	MP-12	Z	-.003	-.003	0	%100
57	MP-11	Z	-.003	-.003	0	%100
58	MP-10	Z	-.003	-.003	0	%100
59	MP-9	Z	-.002	-.002	0	%100
60	MP-8	Z	-.003	-.003	0	%100
61	MP-7	Z	-.003	-.003	0	%100
62	MP-6	Z	-.003	-.003	0	%100
63	MP-5	Z	-.002	-.002	0	%100
64	FFTH	Z	-.002	-.002	0	%100
65	SF1-TH 1	Z	-.003	-.003	0	%100
66	SF2-TH 1	Z	-.002	-.002	0	%100
67	SA-1	Z	0	0	0	%100
68	SA-2	Z	-.002	-.002	0	%100
69	SA-3	Z	-.003	-.003	0	%100
70	GSI-1 1	Z	-.002	-.002	0	%100
71	GSI-2 1	Z	-.001	-.001	0	%100
72	GSI-3 1	Z	-.001	-.001	0	%100

Member Distributed Loads (BLC 23 : 90 Wind - Ice)

Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F...	Start Location[ft.%]	End Location[ft.%]	
1	GSI-1	Z	-.002	-.002	0	%100
2	GSI-2	Z	-.005	-.005	0	%100
3	GSI-3	Z	-.002	-.002	0	%100
4	FF-TH	Z	0	0	0	%100
5	SF1-TH	Z	-.005	-.005	0	%100
6	SF2-TH	Z	-.005	-.005	0	%100
7	GSIP-1	Z	0	0	0	%100
8	GSIP-2	Z	-.005	-.005	0	%100



Company : Tower Engineering Professionals, Inc.
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 Model Name : CCISites BU No. 876310

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Member Distributed Loads (BLC 23 : 90 Wind - Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F...	Start Location[ft.%]	End Location[ft.%]	
9	GSIP-3	Z	-.005	-.005	0	%100
10	SA-1A	Z	-.005	-.005	0	%100
11	SA-2A	Z	-.003	-.003	0	%100
12	SA-3A	Z	-.003	-.003	0	%100
13	SA-1B	Z	-.006	-.006	0	%100
14	SA-2B	Z	-.003	-.003	0	%100
15	SA-3C	Z	-.003	-.003	0	%100
16	MP-4	Z	-.003	-.003	0	%100
17	MP-3	Z	-.003	-.003	0	%100
18	MP-2	Z	-.003	-.003	0	%100
19	MP-1	Z	-.003	-.003	0	%100
20	MP-12	Z	-.003	-.003	0	%100
21	MP-11	Z	-.003	-.003	0	%100
22	MP-10	Z	-.003	-.003	0	%100
23	MP-9	Z	-.003	-.003	0	%100
24	MP-8	Z	-.003	-.003	0	%100
25	MP-7	Z	-.003	-.003	0	%100
26	MP-6	Z	-.003	-.003	0	%100
27	MP-5	Z	-.003	-.003	0	%100
28	FFTH	Z	0	0	0	%100
29	SF1-TH 1	Z	-.003	-.003	0	%100
30	SF2-TH 1	Z	-.003	-.003	0	%100
31	SA-1	Z	-.002	-.002	0	%100
32	SA-2	Z	-.002	-.002	0	%100
33	SA-3	Z	-.003	-.003	0	%100
34	GSI-1 1	Z	-.002	-.002	0	%100
35	GSI-2 1	Z	-.002	-.002	0	%100
36	GSI-3 1	Z	0	0	0	%100

Member Distributed Loads (BLC 24 : 120 Wind - Ice)

Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F...	Start Location[ft.%]	End Location[ft.%]	
1	GSI-1	X	.002	.002	0	%100
2	GSI-2	X	.002	.002	0	%100
3	GSI-3	X	0	0	0	%100
4	FF-TH	X	.002	.002	0	%100
5	SF1-TH	X	.003	.003	0	%100
6	SF2-TH	X	.001	.001	0	%100
7	GSIP-1	X	.001	.001	0	%100
8	GSIP-2	X	.002	.002	0	%100
9	GSIP-3	X	.001	.001	0	%100
10	SA-1A	X	.002	.002	0	%100
11	SA-2A	X	4.8e-5	4.8e-5	0	%100
12	SA-3A	X	.002	.002	0	%100
13	SA-1B	X	.002	.002	0	%100
14	SA-2B	X	4.9e-5	4.9e-5	0	%100
15	SA-3C	X	.002	.002	0	%100
16	MP-4	X	.001	.001	0	%100
17	MP-3	X	.001	.001	0	%100
18	MP-2	X	.001	.001	0	%100
19	MP-1	X	.001	.001	0	%100
20	MP-12	X	.001	.001	0	%100



Company : Tower Engineering Professionals, Inc.
 Designer : ARH
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Member Distributed Loads (BLC 24 : 120 Wind - Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F...	Start Location[ft.%]	End Location[ft.%]	
21	MP-11	X	.001	.001	0	%100
22	MP-10	X	.001	.001	0	%100
23	MP-9	X	.001	.001	0	%100
24	MP-8	X	.001	.001	0	%100
25	MP-7	X	.001	.001	0	%100
26	MP-6	X	.001	.001	0	%100
27	MP-5	X	.001	.001	0	%100
28	FFTH	X	.001	.001	0	%100
29	SF1-TH 1	X	.000805	.000805	0	%100
30	SF2-TH 1	X	.002	.002	0	%100
31	SA-1	X	.001	.001	0	%100
32	SA-2	X	0	0	0	%100
33	SA-3	X	.001	.001	0	%100
34	GSI-1 1	X	.000657	.000657	0	%100
35	GSI-2 1	X	.001	.001	0	%100
36	GSI-3 1	X	.000739	.000739	0	%100
37	GSI-1	Z	-.003	-.003	0	%100
38	GSI-2	Z	-.004	-.004	0	%100
39	GSI-3	Z	0	0	0	%100
40	FF-TH	Z	-.002	-.002	0	%100
41	SF1-TH	Z	-.005	-.005	0	%100
42	SF2-TH	Z	-.003	-.003	0	%100
43	GSIP-1	Z	-.002	-.002	0	%100
44	GSIP-2	Z	-.005	-.005	0	%100
45	GSIP-3	Z	-.002	-.002	0	%100
46	SA-1A	Z	-.004	-.004	0	%100
47	SA-2A	Z	-8.2e-5	-8.2e-5	0	%100
48	SA-3A	Z	-.004	-.004	0	%100
49	SA-1B	Z	-.004	-.004	0	%100
50	SA-2B	Z	-8e-5	-8e-5	0	%100
51	SA-3C	Z	-.004	-.004	0	%100
52	MP-4	Z	-.003	-.003	0	%100
53	MP-3	Z	-.003	-.003	0	%100
54	MP-2	Z	-.003	-.003	0	%100
55	MP-1	Z	-.002	-.002	0	%100
56	MP-12	Z	-.003	-.003	0	%100
57	MP-11	Z	-.003	-.003	0	%100
58	MP-10	Z	-.003	-.003	0	%100
59	MP-9	Z	-.002	-.002	0	%100
60	MP-8	Z	-.003	-.003	0	%100
61	MP-7	Z	-.003	-.003	0	%100
62	MP-6	Z	-.003	-.003	0	%100
63	MP-5	Z	-.002	-.002	0	%100
64	FFTH	Z	-.002	-.002	0	%100
65	SF1-TH 1	Z	-.002	-.002	0	%100
66	SF2-TH 1	Z	-.003	-.003	0	%100
67	SA-1	Z	-.002	-.002	0	%100
68	SA-2	Z	0	0	0	%100
69	SA-3	Z	-.003	-.003	0	%100
70	GSI-1 1	Z	-.001	-.001	0	%100
71	GSI-2 1	Z	-.002	-.002	0	%100
72	GSI-3 1	Z	-.001	-.001	0	%100



Company : Tower Engineering Professionals, Inc.
 Designer : ARH
 Job Number : 72875.638741
 Model Name : CCsites BU No. 876310

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Member Distributed Loads (BLC 25 : 135 Wind - Ice)

Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F...	Start Location[ft.%]	End Location[ft.%]	
1	GSI-1	X	.003	.003	0	%100
2	GSI-2	X	.002	.002	0	%100
3	GSI-3	X	.00085	.00085	0	%100
4	FF-TH	X	.003	.003	0	%100
5	SF1-TH	X	.004	.004	0	%100
6	SF2-TH	X	.000977	.000977	0	%100
7	GSIP-1	X	.003	.003	0	%100
8	GSIP-2	X	.003	.003	0	%100
9	GSIP-3	X	.00084	.00084	0	%100
10	SA-1A	X	.003	.003	0	%100
11	SA-2A	X	.000904	.000904	0	%100
12	SA-3A	X	.004	.004	0	%100
13	SA-1B	X	.003	.003	0	%100
14	SA-2B	X	.000922	.000922	0	%100
15	SA-3C	X	.004	.004	0	%100
16	MP-4	X	.002	.002	0	%100
17	MP-3	X	.002	.002	0	%100
18	MP-2	X	.002	.002	0	%100
19	MP-1	X	.002	.002	0	%100
20	MP-12	X	.002	.002	0	%100
21	MP-11	X	.002	.002	0	%100
22	MP-10	X	.002	.002	0	%100
23	MP-9	X	.002	.002	0	%100
24	MP-8	X	.002	.002	0	%100
25	MP-7	X	.002	.002	0	%100
26	MP-6	X	.002	.002	0	%100
27	MP-5	X	.002	.002	0	%100
28	FFTH	X	.002	.002	0	%100
29	SF1-TH 1	X	.00059	.00059	0	%100
30	SF2-TH 1	X	.002	.002	0	%100
31	SA-1	X	.002	.002	0	%100
32	SA-2	X	.000597	.000597	0	%100
33	SA-3	X	.001	.001	0	%100
34	GSI-1 1	X	.000481	.000481	0	%100
35	GSI-2 1	X	.002	.002	0	%100
36	GSI-3 1	X	.001	.001	0	%100
37	GSI-1	Z	-.003	-.003	0	%100
38	GSI-2	Z	-.002	-.002	0	%100
39	GSI-3	Z	-.000771	-.000771	0	%100
40	FF-TH	Z	-.003	-.003	0	%100
41	SF1-TH	Z	-.004	-.004	0	%100
42	SF2-TH	Z	-.001	-.001	0	%100
43	GSIP-1	Z	-.002	-.002	0	%100
44	GSIP-2	Z	-.004	-.004	0	%100
45	GSIP-3	Z	-.000955	-.000955	0	%100
46	SA-1A	Z	-.003	-.003	0	%100
47	SA-2A	Z	-.000904	-.000904	0	%100
48	SA-3A	Z	-.004	-.004	0	%100
49	SA-1B	Z	-.003	-.003	0	%100
50	SA-2B	Z	-.000874	-.000874	0	%100
51	SA-3C	Z	-.004	-.004	0	%100
52	MP-4	Z	-.002	-.002	0	%100



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Member Distributed Loads (BLC 25 : 135 Wind - Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F...	Start Location[ft.%]	End Location[ft.%]	
53	MP-3	Z	-.002	-.002	0	%100
54	MP-2	Z	-.002	-.002	0	%100
55	MP-1	Z	-.002	-.002	0	%100
56	MP-12	Z	-.002	-.002	0	%100
57	MP-11	Z	-.002	-.002	0	%100
58	MP-10	Z	-.002	-.002	0	%100
59	MP-9	Z	-.002	-.002	0	%100
60	MP-8	Z	-.002	-.002	0	%100
61	MP-7	Z	-.002	-.002	0	%100
62	MP-6	Z	-.002	-.002	0	%100
63	MP-5	Z	-.002	-.002	0	%100
64	FFTH	Z	-.002	-.002	0	%100
65	SF1-TH 1	Z	-.000722	-.000722	0	%100
66	SF2-TH 1	Z	-.003	-.003	0	%100
67	SA-1	Z	-.002	-.002	0	%100
68	SA-2	Z	-.000553	-.000553	0	%100
69	SA-3	Z	-.002	-.002	0	%100
70	GSI-1 1	Z	-.000525	-.000525	0	%100
71	GSI-2 1	Z	-.002	-.002	0	%100
72	GSI-3 1	Z	-.001	-.001	0	%100

Member Distributed Loads (BLC 26 : 150 Wind - Ice)

Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F...	Start Location[ft.%]	End Location[ft.%]	
1	GSI-1	X	.004	.004	0	%100
2	GSI-2	X	.002	.002	0	%100
3	GSI-3	X	.002	.002	0	%100
4	FF-TH	X	.005	.005	0	%100
5	SF1-TH	X	.004	.004	0	%100
6	SF2-TH	X	0	0	0	%100
7	GSIP-1	X	.004	.004	0	%100
8	GSIP-2	X	.003	.003	0	%100
9	GSIP-3	X	0	0	0	%100
10	SA-1A	X	.002	.002	0	%100
11	SA-2A	X	.002	.002	0	%100
12	SA-3A	X	.005	.005	0	%100
13	SA-1B	X	.002	.002	0	%100
14	SA-2B	X	.002	.002	0	%100
15	SA-3C	X	.005	.005	0	%100
16	MP-4	X	.002	.002	0	%100
17	MP-3	X	.002	.002	0	%100
18	MP-2	X	.002	.002	0	%100
19	MP-1	X	.002	.002	0	%100
20	MP-12	X	.002	.002	0	%100
21	MP-11	X	.002	.002	0	%100
22	MP-10	X	.002	.002	0	%100
23	MP-9	X	.002	.002	0	%100
24	MP-8	X	.002	.002	0	%100
25	MP-7	X	.002	.002	0	%100
26	MP-6	X	.002	.002	0	%100
27	MP-5	X	.002	.002	0	%100
28	FFTH	X	.003	.003	0	%100



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Member Distributed Loads (BLC 26 : 150 Wind - Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F...	Start Location[ft.%]	End Location[ft.%]	
29	SF1-TH 1	X	0	0	0	%100
30	SF2-TH 1	X	.002	.002	0	%100
31	SA-1	X	.003	.003	0	%100
32	SA-2	X	.001	.001	0	%100
33	SA-3	X	.001	.001	0	%100
34	GSI-1 1	X	0	0	0	%100
35	GSI-2 1	X	.002	.002	0	%100
36	GSI-3 1	X	.002	.002	0	%100
37	GSI-1	Z	-.002	-.002	0	%100
38	GSI-2	Z	-.001	-.001	0	%100
39	GSI-3	Z	-.001	-.001	0	%100
40	FF-TH	Z	-.002	-.002	0	%100
41	SF1-TH	Z	-.003	-.003	0	%100
42	SF2-TH	Z	0	0	0	%100
43	GSIP-1	Z	-.002	-.002	0	%100
44	GSIP-2	Z	-.002	-.002	0	%100
45	GSIP-3	Z	0	0	0	%100
46	SA-1A	Z	-.001	-.001	0	%100
47	SA-2A	Z	-.001	-.001	0	%100
48	SA-3A	Z	-.003	-.003	0	%100
49	SA-1B	Z	-.001	-.001	0	%100
50	SA-2B	Z	-.001	-.001	0	%100
51	SA-3C	Z	-.003	-.003	0	%100
52	MP-4	Z	-.002	-.002	0	%100
53	MP-3	Z	-.001	-.001	0	%100
54	MP-2	Z	-.001	-.001	0	%100
55	MP-1	Z	-.001	-.001	0	%100
56	MP-12	Z	-.002	-.002	0	%100
57	MP-11	Z	-.001	-.001	0	%100
58	MP-10	Z	-.001	-.001	0	%100
59	MP-9	Z	-.001	-.001	0	%100
60	MP-8	Z	-.002	-.002	0	%100
61	MP-7	Z	-.001	-.001	0	%100
62	MP-6	Z	-.001	-.001	0	%100
63	MP-5	Z	-.001	-.001	0	%100
64	FFTH	Z	-.002	-.002	0	%100
65	SF1-TH 1	Z	0	0	0	%100
66	SF2-TH 1	Z	-.002	-.002	0	%100
67	SA-1	Z	-.002	-.002	0	%100
68	SA-2	Z	-.000756	-.000756	0	%100
69	SA-3	Z	-.000838	-.000838	0	%100
70	GSI-1 1	Z	0	0	0	%100
71	GSI-2 1	Z	-.001	-.001	0	%100
72	GSI-3 1	Z	-.001	-.001	0	%100

Member Distributed Loads (BLC 27 : 180 Wind - Ice)

Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F...	Start Location[ft.%]	End Location[ft.%]	
1	GSI-1	X	.005	.005	0	%100
2	GSI-2	X	.004	.004	0	%100
3	GSI-3	X	.005	.005	0	%100
4	FF-TH	X	.006	.006	0	%100



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Member Distributed Loads (BLC 27 : 180 Wind - Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F...	Start Location[ft.%]	End Location[ft.%]	
5	SF1-TH	X	.005	.005	0	%100
6	SF2-TH	X	.005	.005	0	%100
7	GSIP-1	X	.005	.005	0	%100
8	GSIP-2	X	.005	.005	0	%100
9	GSIP-3	X	.005	.005	0	%100
10	SA-1A	X	.005	.005	0	%100
11	SA-2A	X	.005	.005	0	%100
12	SA-3A	X	.005	.005	0	%100
13	SA-1B	X	.005	.005	0	%100
14	SA-2B	X	.005	.005	0	%100
15	SA-3C	X	.005	.005	0	%100
16	MP-4	X	.003	.003	0	%100
17	MP-3	X	.003	.003	0	%100
18	MP-2	X	.003	.003	0	%100
19	MP-1	X	.003	.003	0	%100
20	MP-12	X	.003	.003	0	%100
21	MP-11	X	.003	.003	0	%100
22	MP-10	X	.003	.003	0	%100
23	MP-9	X	.003	.003	0	%100
24	MP-8	X	.003	.003	0	%100
25	MP-7	X	.003	.003	0	%100
26	MP-6	X	.003	.003	0	%100
27	MP-5	X	.003	.003	0	%100
28	FFTH	X	.004	.004	0	%100
29	SF1-TH 1	X	.003	.003	0	%100
30	SF2-TH 1	X	.003	.003	0	%100
31	SA-1	X	.003	.003	0	%100
32	SA-2	X	.003	.003	0	%100
33	SA-3	X	.003	.003	0	%100
34	GSI-1 1	X	.003	.003	0	%100
35	GSI-2 1	X	.003	.003	0	%100
36	GSI-3 1	X	.003	.003	0	%100

Member Distributed Loads (BLC 28 : 210 Wind - Ice)

Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F...	Start Location[ft.%]	End Location[ft.%]	
1	GSI-1	X	.002	.002	0	%100
2	GSI-2	X	.002	.002	0	%100
3	GSI-3	X	.004	.004	0	%100
4	FF-TH	X	.005	.005	0	%100
5	SF1-TH	X	0	0	0	%100
6	SF2-TH	X	.004	.004	0	%100
7	GSIP-1	X	.004	.004	0	%100
8	GSIP-2	X	0	0	0	%100
9	GSIP-3	X	.003	.003	0	%100
10	SA-1A	X	.002	.002	0	%100
11	SA-2A	X	.005	.005	0	%100
12	SA-3A	X	.002	.002	0	%100
13	SA-1B	X	.002	.002	0	%100
14	SA-2B	X	.005	.005	0	%100
15	SA-3C	X	.002	.002	0	%100
16	MP-4	X	.002	.002	0	%100



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Member Distributed Loads (BLC 28 : 210 Wind - Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F...	Start Location[ft.%]	End Location[ft.%]	
17	MP-3	X	.002	.002	0	%100
18	MP-2	X	.002	.002	0	%100
19	MP-1	X	.002	.002	0	%100
20	MP-12	X	.002	.002	0	%100
21	MP-11	X	.002	.002	0	%100
22	MP-10	X	.002	.002	0	%100
23	MP-9	X	.002	.002	0	%100
24	MP-8	X	.002	.002	0	%100
25	MP-7	X	.002	.002	0	%100
26	MP-6	X	.002	.002	0	%100
27	MP-5	X	.002	.002	0	%100
28	FFTH	X	.003	.003	0	%100
29	SF1-TH 1	X	.002	.002	0	%100
30	SF2-TH 1	X	0	0	0	%100
31	SA-1	X	.001	.001	0	%100
32	SA-2	X	.003	.003	0	%100
33	SA-3	X	.001	.001	0	%100
34	GSI-1 1	X	.002	.002	0	%100
35	GSI-2 1	X	0	0	0	%100
36	GSI-3 1	X	.002	.002	0	%100
37	GSI-1	Z	.001	.001	0	%100
38	GSI-2	Z	.001	.001	0	%100
39	GSI-3	Z	.002	.002	0	%100
40	FF-TH	Z	.002	.002	0	%100
41	SF1-TH	Z	0	0	0	%100
42	SF2-TH	Z	.003	.003	0	%100
43	GSIP-1	Z	.002	.002	0	%100
44	GSIP-2	Z	0	0	0	%100
45	GSIP-3	Z	.002	.002	0	%100
46	SA-1A	Z	.001	.001	0	%100
47	SA-2A	Z	.003	.003	0	%100
48	SA-3A	Z	.001	.001	0	%100
49	SA-1B	Z	.001	.001	0	%100
50	SA-2B	Z	.003	.003	0	%100
51	SA-3C	Z	.001	.001	0	%100
52	MP-4	Z	.002	.002	0	%100
53	MP-3	Z	.001	.001	0	%100
54	MP-2	Z	.001	.001	0	%100
55	MP-1	Z	.001	.001	0	%100
56	MP-12	Z	.002	.002	0	%100
57	MP-11	Z	.001	.001	0	%100
58	MP-10	Z	.001	.001	0	%100
59	MP-9	Z	.001	.001	0	%100
60	MP-8	Z	.002	.002	0	%100
61	MP-7	Z	.001	.001	0	%100
62	MP-6	Z	.001	.001	0	%100
63	MP-5	Z	.001	.001	0	%100
64	FFTH	Z	.002	.002	0	%100
65	SF1-TH 1	Z	.002	.002	0	%100
66	SF2-TH 1	Z	0	0	0	%100
67	SA-1	Z	.000756	.000756	0	%100
68	SA-2	Z	.002	.002	0	%100



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Member Distributed Loads (BLC 28 : 210 Wind - Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F...	Start Location[ft.%]	End Location[ft.%]	
69	SA-3	Z	.000838	.000838	0	%100
70	GSI-1 1	Z	.001	.001	0	%100
71	GSI-2 1	Z	0	0	0	%100
72	GSI-3 1	Z	.001	.001	0	%100

Member Distributed Loads (BLC 29 : 225 Wind - Ice)

Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F...	Start Location[ft.%]	End Location[ft.%]	
1	GSI-1	X	.00085	.00085	0	%100
2	GSI-2	X	.002	.002	0	%100
3	GSI-3	X	.003	.003	0	%100
4	FF-TH	X	.003	.003	0	%100
5	SF1-TH	X	.000977	.000977	0	%100
6	SF2-TH	X	.004	.004	0	%100
7	GSIP-1	X	.003	.003	0	%100
8	GSIP-2	X	.00084	.00084	0	%100
9	GSIP-3	X	.003	.003	0	%100
10	SA-1A	X	.003	.003	0	%100
11	SA-2A	X	.004	.004	0	%100
12	SA-3A	X	.000904	.000904	0	%100
13	SA-1B	X	.003	.003	0	%100
14	SA-2B	X	.004	.004	0	%100
15	SA-3C	X	.000922	.000922	0	%100
16	MP-4	X	.002	.002	0	%100
17	MP-3	X	.002	.002	0	%100
18	MP-2	X	.002	.002	0	%100
19	MP-1	X	.002	.002	0	%100
20	MP-12	X	.002	.002	0	%100
21	MP-11	X	.002	.002	0	%100
22	MP-10	X	.002	.002	0	%100
23	MP-9	X	.002	.002	0	%100
24	MP-8	X	.002	.002	0	%100
25	MP-7	X	.002	.002	0	%100
26	MP-6	X	.002	.002	0	%100
27	MP-5	X	.002	.002	0	%100
28	FFTH	X	.002	.002	0	%100
29	SF1-TH 1	X	.002	.002	0	%100
30	SF2-TH 1	X	.00059	.00059	0	%100
31	SA-1	X	.000597	.000597	0	%100
32	SA-2	X	.002	.002	0	%100
33	SA-3	X	.001	.001	0	%100
34	GSI-1 1	X	.002	.002	0	%100
35	GSI-2 1	X	.000481	.000481	0	%100
36	GSI-3 1	X	.001	.001	0	%100
37	GSI-1	Z	.000771	.000771	0	%100
38	GSI-2	Z	.002	.002	0	%100
39	GSI-3	Z	.003	.003	0	%100
40	FF-TH	Z	.003	.003	0	%100
41	SF1-TH	Z	.001	.001	0	%100
42	SF2-TH	Z	.004	.004	0	%100
43	GSIP-1	Z	.002	.002	0	%100
44	GSIP-2	Z	.000955	.000955	0	%100



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Member Distributed Loads (BLC 29 : 225 Wind - Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F...	Start Location[ft.%]	End Location[ft.%]	
45	GSIP-3	Z	.004	.004	0	%100
46	SA-1A	Z	.003	.003	0	%100
47	SA-2A	Z	.004	.004	0	%100
48	SA-3A	Z	.000904	.000904	0	%100
49	SA-1B	Z	.003	.003	0	%100
50	SA-2B	Z	.004	.004	0	%100
51	SA-3C	Z	.000874	.000874	0	%100
52	MP-4	Z	.002	.002	0	%100
53	MP-3	Z	.002	.002	0	%100
54	MP-2	Z	.002	.002	0	%100
55	MP-1	Z	.002	.002	0	%100
56	MP-12	Z	.002	.002	0	%100
57	MP-11	Z	.002	.002	0	%100
58	MP-10	Z	.002	.002	0	%100
59	MP-9	Z	.002	.002	0	%100
60	MP-8	Z	.002	.002	0	%100
61	MP-7	Z	.002	.002	0	%100
62	MP-6	Z	.002	.002	0	%100
63	MP-5	Z	.002	.002	0	%100
64	FFTH	Z	.002	.002	0	%100
65	SF1-TH 1	Z	.003	.003	0	%100
66	SF2-TH 1	Z	.000722	.000722	0	%100
67	SA-1	Z	.000553	.000553	0	%100
68	SA-2	Z	.002	.002	0	%100
69	SA-3	Z	.002	.002	0	%100
70	GSI-1 1	Z	.002	.002	0	%100
71	GSI-2 1	Z	.000525	.000525	0	%100
72	GSI-3 1	Z	.001	.001	0	%100

Member Distributed Loads (BLC 30 : 240 Wind - Ice)

Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F...	Start Location[ft.%]	End Location[ft.%]	
1	GSI-1	X	0	0	0	%100
2	GSI-2	X	.002	.002	0	%100
3	GSI-3	X	.002	.002	0	%100
4	FF-TH	X	.002	.002	0	%100
5	SF1-TH	X	.001	.001	0	%100
6	SF2-TH	X	.003	.003	0	%100
7	GSIP-1	X	.001	.001	0	%100
8	GSIP-2	X	.001	.001	0	%100
9	GSIP-3	X	.002	.002	0	%100
10	SA-1A	X	.002	.002	0	%100
11	SA-2A	X	.002	.002	0	%100
12	SA-3A	X	4.8e-5	4.8e-5	0	%100
13	SA-1B	X	.002	.002	0	%100
14	SA-2B	X	.002	.002	0	%100
15	SA-3C	X	4.9e-5	4.9e-5	0	%100
16	MP-4	X	.001	.001	0	%100
17	MP-3	X	.001	.001	0	%100
18	MP-2	X	.001	.001	0	%100
19	MP-1	X	.001	.001	0	%100
20	MP-12	X	.001	.001	0	%100



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Member Distributed Loads (BLC 30 : 240 Wind - Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F...	Start Location[ft.%]	End Location[ft.%]	
21	MP-11	X	.001	.001	0	%100
22	MP-10	X	.001	.001	0	%100
23	MP-9	X	.001	.001	0	%100
24	MP-8	X	.001	.001	0	%100
25	MP-7	X	.001	.001	0	%100
26	MP-6	X	.001	.001	0	%100
27	MP-5	X	.001	.001	0	%100
28	FFTH	X	.001	.001	0	%100
29	SF1-TH 1	X	.002	.002	0	%100
30	SF2-TH 1	X	.000805	.000805	0	%100
31	SA-1	X	0	0	0	%100
32	SA-2	X	.001	.001	0	%100
33	SA-3	X	.001	.001	0	%100
34	GSI-1 1	X	.001	.001	0	%100
35	GSI-2 1	X	.000657	.000657	0	%100
36	GSI-3 1	X	.000739	.000739	0	%100
37	GSI-1	Z	0	0	0	%100
38	GSI-2	Z	.004	.004	0	%100
39	GSI-3	Z	.003	.003	0	%100
40	FF-TH	Z	.002	.002	0	%100
41	SF1-TH	Z	.003	.003	0	%100
42	SF2-TH	Z	.005	.005	0	%100
43	GSIP-1	Z	.002	.002	0	%100
44	GSIP-2	Z	.002	.002	0	%100
45	GSIP-3	Z	.005	.005	0	%100
46	SA-1A	Z	.004	.004	0	%100
47	SA-2A	Z	.004	.004	0	%100
48	SA-3A	Z	8.2e-5	8.2e-5	0	%100
49	SA-1B	Z	.004	.004	0	%100
50	SA-2B	Z	.004	.004	0	%100
51	SA-3C	Z	8e-5	8e-5	0	%100
52	MP-4	Z	.003	.003	0	%100
53	MP-3	Z	.003	.003	0	%100
54	MP-2	Z	.003	.003	0	%100
55	MP-1	Z	.002	.002	0	%100
56	MP-12	Z	.003	.003	0	%100
57	MP-11	Z	.003	.003	0	%100
58	MP-10	Z	.003	.003	0	%100
59	MP-9	Z	.002	.002	0	%100
60	MP-8	Z	.003	.003	0	%100
61	MP-7	Z	.003	.003	0	%100
62	MP-6	Z	.003	.003	0	%100
63	MP-5	Z	.002	.002	0	%100
64	FFTH	Z	.002	.002	0	%100
65	SF1-TH 1	Z	.003	.003	0	%100
66	SF2-TH 1	Z	.002	.002	0	%100
67	SA-1	Z	0	0	0	%100
68	SA-2	Z	.002	.002	0	%100
69	SA-3	Z	.003	.003	0	%100
70	GSI-1 1	Z	.002	.002	0	%100
71	GSI-2 1	Z	.001	.001	0	%100
72	GSI-3 1	Z	.001	.001	0	%100



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Member Distributed Loads (BLC 31 : 270 Wind - Ice)

Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F...	Start Location[ft.%]	End Location[ft.%]	
1	GSI-1	Z	.002	.002	0	%100
2	GSI-2	Z	.005	.005	0	%100
3	GSI-3	Z	.002	.002	0	%100
4	FF-TH	Z	0	0	0	%100
5	SF1-TH	Z	.005	.005	0	%100
6	SF2-TH	Z	.005	.005	0	%100
7	GSIP-1	Z	0	0	0	%100
8	GSIP-2	Z	.005	.005	0	%100
9	GSIP-3	Z	.005	.005	0	%100
10	SA-1A	Z	.005	.005	0	%100
11	SA-2A	Z	.003	.003	0	%100
12	SA-3A	Z	.003	.003	0	%100
13	SA-1B	Z	.006	.006	0	%100
14	SA-2B	Z	.003	.003	0	%100
15	SA-3C	Z	.003	.003	0	%100
16	MP-4	Z	.003	.003	0	%100
17	MP-3	Z	.003	.003	0	%100
18	MP-2	Z	.003	.003	0	%100
19	MP-1	Z	.003	.003	0	%100
20	MP-12	Z	.003	.003	0	%100
21	MP-11	Z	.003	.003	0	%100
22	MP-10	Z	.003	.003	0	%100
23	MP-9	Z	.003	.003	0	%100
24	MP-8	Z	.003	.003	0	%100
25	MP-7	Z	.003	.003	0	%100
26	MP-6	Z	.003	.003	0	%100
27	MP-5	Z	.003	.003	0	%100
28	FFTH	Z	0	0	0	%100
29	SF1-TH 1	Z	.003	.003	0	%100
30	SF2-TH 1	Z	.003	.003	0	%100
31	SA-1	Z	.002	.002	0	%100
32	SA-2	Z	.002	.002	0	%100
33	SA-3	Z	.003	.003	0	%100
34	GSI-1 1	Z	.002	.002	0	%100
35	GSI-2 1	Z	.002	.002	0	%100
36	GSI-3 1	Z	0	0	0	%100

Member Distributed Loads (BLC 32 : 300 Wind - Ice)

Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F...	Start Location[ft.%]	End Location[ft.%]	
1	GSI-1	X	-.002	-.002	0	%100
2	GSI-2	X	-.002	-.002	0	%100
3	GSI-3	X	0	0	0	%100
4	FF-TH	X	-.002	-.002	0	%100
5	SF1-TH	X	-.003	-.003	0	%100
6	SF2-TH	X	-.001	-.001	0	%100
7	GSIP-1	X	-.001	-.001	0	%100
8	GSIP-2	X	-.002	-.002	0	%100
9	GSIP-3	X	-.001	-.001	0	%100
10	SA-1A	X	-.002	-.002	0	%100
11	SA-2A	X	-4.8e-5	-4.8e-5	0	%100
12	SA-3A	X	-.002	-.002	0	%100



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Member Distributed Loads (BLC 32 : 300 Wind - Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F...	Start Location[ft.%]	End Location[ft.%]	
13	SA-1B	X	-.002	-.002	0	%100
14	SA-2B	X	-4.9e-5	-4.9e-5	0	%100
15	SA-3C	X	-.002	-.002	0	%100
16	MP-4	X	-.001	-.001	0	%100
17	MP-3	X	-.001	-.001	0	%100
18	MP-2	X	-.001	-.001	0	%100
19	MP-1	X	-.001	-.001	0	%100
20	MP-12	X	-.001	-.001	0	%100
21	MP-11	X	-.001	-.001	0	%100
22	MP-10	X	-.001	-.001	0	%100
23	MP-9	X	-.001	-.001	0	%100
24	MP-8	X	-.001	-.001	0	%100
25	MP-7	X	-.001	-.001	0	%100
26	MP-6	X	-.001	-.001	0	%100
27	MP-5	X	-.001	-.001	0	%100
28	FFTH	X	-.001	-.001	0	%100
29	SF1-TH 1	X	-.000805	-.000805	0	%100
30	SF2-TH 1	X	-.002	-.002	0	%100
31	SA-1	X	-.001	-.001	0	%100
32	SA-2	X	0	0	0	%100
33	SA-3	X	-.001	-.001	0	%100
34	GSI-1 1	X	-.000657	-.000657	0	%100
35	GSI-2 1	X	-.001	-.001	0	%100
36	GSI-3 1	X	-.000739	-.000739	0	%100
37	GSI-1	Z	.003	.003	0	%100
38	GSI-2	Z	.004	.004	0	%100
39	GSI-3	Z	0	0	0	%100
40	FF-TH	Z	.002	.002	0	%100
41	SF1-TH	Z	.005	.005	0	%100
42	SF2-TH	Z	.003	.003	0	%100
43	GSIP-1	Z	.002	.002	0	%100
44	GSIP-2	Z	.005	.005	0	%100
45	GSIP-3	Z	.002	.002	0	%100
46	SA-1A	Z	.004	.004	0	%100
47	SA-2A	Z	8.2e-5	8.2e-5	0	%100
48	SA-3A	Z	.004	.004	0	%100
49	SA-1B	Z	.004	.004	0	%100
50	SA-2B	Z	8e-5	8e-5	0	%100
51	SA-3C	Z	.004	.004	0	%100
52	MP-4	Z	.003	.003	0	%100
53	MP-3	Z	.003	.003	0	%100
54	MP-2	Z	.003	.003	0	%100
55	MP-1	Z	.002	.002	0	%100
56	MP-12	Z	.003	.003	0	%100
57	MP-11	Z	.003	.003	0	%100
58	MP-10	Z	.003	.003	0	%100
59	MP-9	Z	.002	.002	0	%100
60	MP-8	Z	.003	.003	0	%100
61	MP-7	Z	.003	.003	0	%100
62	MP-6	Z	.003	.003	0	%100
63	MP-5	Z	.002	.002	0	%100
64	FFTH	Z	.002	.002	0	%100



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Member Distributed Loads (BLC 32 : 300 Wind - Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F...	Start Location[ft.%]	End Location[ft.%]	
65	SF1-TH 1	Z	.002	.002	0	%100
66	SF2-TH 1	Z	.003	.003	0	%100
67	SA-1	Z	.002	.002	0	%100
68	SA-2	Z	0	0	0	%100
69	SA-3	Z	.003	.003	0	%100
70	GSI-1 1	Z	.001	.001	0	%100
71	GSI-2 1	Z	.002	.002	0	%100
72	GSI-3 1	Z	.001	.001	0	%100

Member Distributed Loads (BLC 33 : 315 Wind - Ice)

Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F...	Start Location[ft.%]	End Location[ft.%]	
1	GSI-1	X	-.003	-.003	0	%100
2	GSI-2	X	-.002	-.002	0	%100
3	GSI-3	X	-.00085	-.00085	0	%100
4	FF-TH	X	-.003	-.003	0	%100
5	SF1-TH	X	-.004	-.004	0	%100
6	SF2-TH	X	-.000977	-.000977	0	%100
7	GSIP-1	X	-.003	-.003	0	%100
8	GSIP-2	X	-.003	-.003	0	%100
9	GSIP-3	X	-.00084	-.00084	0	%100
10	SA-1A	X	-.003	-.003	0	%100
11	SA-2A	X	-.000904	-.000904	0	%100
12	SA-3A	X	-.004	-.004	0	%100
13	SA-1B	X	-.003	-.003	0	%100
14	SA-2B	X	-.000922	-.000922	0	%100
15	SA-3C	X	-.004	-.004	0	%100
16	MP-4	X	-.002	-.002	0	%100
17	MP-3	X	-.002	-.002	0	%100
18	MP-2	X	-.002	-.002	0	%100
19	MP-1	X	-.002	-.002	0	%100
20	MP-12	X	-.002	-.002	0	%100
21	MP-11	X	-.002	-.002	0	%100
22	MP-10	X	-.002	-.002	0	%100
23	MP-9	X	-.002	-.002	0	%100
24	MP-8	X	-.002	-.002	0	%100
25	MP-7	X	-.002	-.002	0	%100
26	MP-6	X	-.002	-.002	0	%100
27	MP-5	X	-.002	-.002	0	%100
28	FFTH	X	-.002	-.002	0	%100
29	SF1-TH 1	X	-.00059	-.00059	0	%100
30	SF2-TH 1	X	-.002	-.002	0	%100
31	SA-1	X	-.002	-.002	0	%100
32	SA-2	X	-.000597	-.000597	0	%100
33	SA-3	X	-.001	-.001	0	%100
34	GSI-1 1	X	-.000481	-.000481	0	%100
35	GSI-2 1	X	-.002	-.002	0	%100
36	GSI-3 1	X	-.001	-.001	0	%100
37	GSI-1	Z	.003	.003	0	%100
38	GSI-2	Z	.002	.002	0	%100
39	GSI-3	Z	.000771	.000771	0	%100
40	FF-TH	Z	.003	.003	0	%100



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Member Distributed Loads (BLC 33 : 315 Wind - Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft, %]	End Location[ft, %]	
41	SF1-TH	Z	.004	.004	0	%100
42	SF2-TH	Z	.001	.001	0	%100
43	GSIP-1	Z	.002	.002	0	%100
44	GSIP-2	Z	.004	.004	0	%100
45	GSIP-3	Z	.000955	.000955	0	%100
46	SA-1A	Z	.003	.003	0	%100
47	SA-2A	Z	.000904	.000904	0	%100
48	SA-3A	Z	.004	.004	0	%100
49	SA-1B	Z	.003	.003	0	%100
50	SA-2B	Z	.000874	.000874	0	%100
51	SA-3C	Z	.004	.004	0	%100
52	MP-4	Z	.002	.002	0	%100
53	MP-3	Z	.002	.002	0	%100
54	MP-2	Z	.002	.002	0	%100
55	MP-1	Z	.002	.002	0	%100
56	MP-12	Z	.002	.002	0	%100
57	MP-11	Z	.002	.002	0	%100
58	MP-10	Z	.002	.002	0	%100
59	MP-9	Z	.002	.002	0	%100
60	MP-8	Z	.002	.002	0	%100
61	MP-7	Z	.002	.002	0	%100
62	MP-6	Z	.002	.002	0	%100
63	MP-5	Z	.002	.002	0	%100
64	FFTH	Z	.002	.002	0	%100
65	SF1-TH_1	Z	.000722	.000722	0	%100
66	SF2-TH_1	Z	.003	.003	0	%100
67	SA-1	Z	.002	.002	0	%100
68	SA-2	Z	.000553	.000553	0	%100
69	SA-3	Z	.002	.002	0	%100
70	GSI-1_1	Z	.000525	.000525	0	%100
71	GSI-2_1	Z	.002	.002	0	%100
72	GSI-3_1	Z	.001	.001	0	%100

Member Distributed Loads (BLC 34 : 330 Wind - Ice)

Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft, %]	End Location[ft, %]	
1	GSI-1	X	-.004	-.004	0	%100
2	GSI-2	X	-.002	-.002	0	%100
3	GSI-3	X	-.002	-.002	0	%100
4	FF-TH	X	-.005	-.005	0	%100
5	SF1-TH	X	-.004	-.004	0	%100
6	SF2-TH	X	0	0	0	%100
7	GSIP-1	X	-.004	-.004	0	%100
8	GSIP-2	X	-.003	-.003	0	%100
9	GSIP-3	X	0	0	0	%100
10	SA-1A	X	-.002	-.002	0	%100
11	SA-2A	X	-.002	-.002	0	%100
12	SA-3A	X	-.005	-.005	0	%100
13	SA-1B	X	-.002	-.002	0	%100
14	SA-2B	X	-.002	-.002	0	%100
15	SA-3C	X	-.005	-.005	0	%100
16	MP-4	X	-.002	-.002	0	%100



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Member Distributed Loads (BLC 34 : 330 Wind - Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft, %]	End Location[ft, %]	
17	MP-3	X	-.002	-.002	0	%100
18	MP-2	X	-.002	-.002	0	%100
19	MP-1	X	-.002	-.002	0	%100
20	MP-12	X	-.002	-.002	0	%100
21	MP-11	X	-.002	-.002	0	%100
22	MP-10	X	-.002	-.002	0	%100
23	MP-9	X	-.002	-.002	0	%100
24	MP-8	X	-.002	-.002	0	%100
25	MP-7	X	-.002	-.002	0	%100
26	MP-6	X	-.002	-.002	0	%100
27	MP-5	X	-.002	-.002	0	%100
28	FFTH	X	-.003	-.003	0	%100
29	SF1-TH_1	X	0	0	0	%100
30	SF2-TH_1	X	-.002	-.002	0	%100
31	SA-1	X	-.003	-.003	0	%100
32	SA-2	X	-.001	-.001	0	%100
33	SA-3	X	-.001	-.001	0	%100
34	GSI-1_1	X	0	0	0	%100
35	GSI-2_1	X	-.002	-.002	0	%100
36	GSI-3_1	X	-.002	-.002	0	%100
37	GSI-1	Z	.002	.002	0	%100
38	GSI-2	Z	.001	.001	0	%100
39	GSI-3	Z	.001	.001	0	%100
40	FF-TH	Z	.002	.002	0	%100
41	SF1-TH	Z	.003	.003	0	%100
42	SF2-TH	Z	0	0	0	%100
43	GSIP-1	Z	.002	.002	0	%100
44	GSIP-2	Z	.002	.002	0	%100
45	GSIP-3	Z	0	0	0	%100
46	SA-1A	Z	.001	.001	0	%100
47	SA-2A	Z	.001	.001	0	%100
48	SA-3A	Z	.003	.003	0	%100
49	SA-1B	Z	.001	.001	0	%100
50	SA-2B	Z	.001	.001	0	%100
51	SA-3C	Z	.003	.003	0	%100
52	MP-4	Z	.002	.002	0	%100
53	MP-3	Z	.001	.001	0	%100
54	MP-2	Z	.001	.001	0	%100
55	MP-1	Z	.001	.001	0	%100
56	MP-12	Z	.002	.002	0	%100
57	MP-11	Z	.001	.001	0	%100
58	MP-10	Z	.001	.001	0	%100
59	MP-9	Z	.001	.001	0	%100
60	MP-8	Z	.002	.002	0	%100
61	MP-7	Z	.001	.001	0	%100
62	MP-6	Z	.001	.001	0	%100
63	MP-5	Z	.001	.001	0	%100
64	FFTH	Z	.002	.002	0	%100
65	SF1-TH_1	Z	0	0	0	%100
66	SF2-TH_1	Z	.002	.002	0	%100
67	SA-1	Z	.002	.002	0	%100
68	SA-2	Z	.000756	.000756	0	%100



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Member Distributed Loads (BLC 34 : 330 Wind - Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F...	Start Location[ft.%]	End Location[ft.%]	
69	SA-3	Z	.000838	.000838	0	%100
70	GSI-1 1	Z	0	0	0	%100
71	GSI-2 1	Z	.001	.001	0	%100
72	GSI-3 1	Z	.001	.001	0	%100

Member Distributed Loads (BLC 39 : BLC 1 Transient Area Loads)

Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F...	Start Location[ft.%]	End Location[ft.%]	
1	GSI-1	Y	-.021	-.011	0	1.972
2	GSI-1	Y	-.011	-.002	1.972	3.944
3	GSI-3	Y	-.021	-.011	0	1.972
4	GSI-3	Y	-.011	-.002	1.972	3.944
5	FF-TH	Y	-.003	-.006	0	2.333
6	FF-TH	Y	-.006	-.009	2.333	4.667
7	FF-TH	Y	-.009	-.009	4.667	7
8	FF-TH	Y	-.009	-.009	7	9.333
9	FF-TH	Y	-.009	-.006	9.333	11.667
10	FF-TH	Y	-.006	-.003	11.667	14
11	GSIP-1	Y	-.009	-.009	.007	7.162
12	SA-1B	Y	-.022	-.022	.445	2.417
13	GSI-2	Y	-.021	-.011	0	1.972
14	GSI-2	Y	-.011	-.002	1.972	3.944
15	SF1-TH	Y	-.003	-.006	0	2.333
16	SF1-TH	Y	-.006	-.009	2.333	4.667
17	SF1-TH	Y	-.009	-.009	4.667	7
18	SF1-TH	Y	-.009	-.009	7	9.333
19	SF1-TH	Y	-.009	-.006	9.333	11.667
20	SF1-TH	Y	-.006	-.003	11.667	14
21	GSIP-2	Y	-.009	-.009	.014	7.162
22	SA-2B	Y	-.019	-.019	.245	1.349
23	SA-2B	Y	-.019	-.019	1.349	2.452
24	SF2-TH	Y	-.003	-.006	0	2.333
25	SF2-TH	Y	-.006	-.009	2.333	4.667
26	SF2-TH	Y	-.009	-.009	4.667	7
27	SF2-TH	Y	-.009	-.009	7	9.333
28	SF2-TH	Y	-.009	-.006	9.333	11.667
29	SF2-TH	Y	-.006	-.003	11.667	14
30	GSIP-3	Y	-.009	-.009	.006	7.155
31	SA-3C	Y	-.019	-.019	.245	1.349
32	SA-3C	Y	-.019	-.019	1.349	2.452

Member Distributed Loads (BLC 40 : BLC 18 Transient Area Loads)

Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F...	Start Location[ft.%]	End Location[ft.%]	
1	GSI-1	Y	-.009	-.005	0	1.972
2	GSI-1	Y	-.005	-.001	1.972	3.944
3	GSI-3	Y	-.009	-.005	0	1.972
4	GSI-3	Y	-.005	-.001	1.972	3.944
5	FF-TH	Y	-.001	-.003	0	2.333
6	FF-TH	Y	-.003	-.004	2.333	4.667
7	FF-TH	Y	-.004	-.004	4.667	7
8	FF-TH	Y	-.004	-.004	7	9.333
9	FF-TH	Y	-.004	-.003	9.333	11.667



Company : Tower Engineering Professionals, Inc.
 Designer : ARH
 Job Number : 72875.638741
 Model Name : CCsites BU No. 876310

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Member Distributed Loads (BLC 40 : BLC 18 Transient Area Loads) (Continued)

Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F...	Start Location[ft.%]	End Location[ft.%]	
10	FF-TH	Y	-.003	-.001	11.667	14
11	GSIP-1	Y	-.004	-.004	.007	7.162
12	SA-1B	Y	-.009	-.009	.445	2.417
13	GSI-2	Y	-.009	-.005	0	1.972
14	GSI-2	Y	-.005	-.001	1.972	3.944
15	SF1-TH	Y	-.001	-.003	0	2.333
16	SF1-TH	Y	-.003	-.004	2.333	4.667
17	SF1-TH	Y	-.004	-.004	4.667	7
18	SF1-TH	Y	-.004	-.004	7	9.333
19	SF1-TH	Y	-.004	-.003	9.333	11.667
20	SF1-TH	Y	-.003	-.001	11.667	14
21	GSIP-2	Y	-.004	-.004	.014	7.162
22	SA-2B	Y	-.008	-.008	.245	1.349
23	SA-2B	Y	-.008	-.008	1.349	2.452
24	SF2-TH	Y	-.001	-.003	0	2.333
25	SF2-TH	Y	-.003	-.004	2.333	4.667
26	SF2-TH	Y	-.004	-.004	4.667	7
27	SF2-TH	Y	-.004	-.004	7	9.333
28	SF2-TH	Y	-.004	-.003	9.333	11.667
29	SF2-TH	Y	-.003	-.001	11.667	14
30	GSIP-3	Y	-.004	-.004	.006	7.155
31	SA-3C	Y	-.008	-.008	.245	1.349
32	SA-3C	Y	-.008	-.008	1.349	2.452

Member Area Loads (BLC 1 : Dead)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	FF-1	GSIP2	GSIP1	SF1-1	Y	Two Way	-.012
2	SF1-1	GSIP1	GSIP3	SF2-1	Y	Two Way	-.012
3	SF2-1	GSIP3	GSIP2	FF-1	Y	Two Way	-.012

Member Area Loads (BLC 18 : Ice Weight)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	FF-1	GSIP2	GSIP1	SF1-1	Y	Two Way	-.005
2	SF1-1	GSIP1	GSIP3	SF2-1	Y	Two Way	-.005
3	SF2-1	GSIP3	GSIP2	FF-1	Y	Two Way	-.005

Envelope Joint Reactions

Joint	X [k]	LC	Y [k]	LC	Z [k]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC		
1	SA1-A	max	.869	18	1.65	34	1.701	5	.287	58	1.597	29	4.53	34
2		min	-.86	10	.571	10	-1.707	29	-.044	17	-1.568	4	1.469	10
3	SA3-A	max	1.597	2	1.636	44	1.086	22	3.867	44	1.513	26	-.788	5
4		min	-1.609	26	.569	4	-1.087	30	1.234	4	-1.481	2	-2.36	45
5	SA2-A	max	1.685	18	1.634	39	1.129	22	-1.318	16	1.683	18	-.732	15
6		min	-1.686	26	.581	15	-1.122	14	-3.898	40	-1.655	10	-2.295	39
7	SA1-1	max	.728	2	1.277	43	.746	21	-1.319	2	1.579	17	2.202	42
8		min	-.729	26	.459	3	-.727	13	-3.48	43	-1.594	25	.786	2
9	SA2-1	max	.65	18	1.275	37	.761	6	3.648	37	1.56	11	1.987	58
10		min	-.632	10	.46	14	-.769	30	1.35	13	-1.577	19	.715	17



Company : Tower Engineering Professionals, Inc.
 Designer : ARH
 Job Number : 72875.638741
 Model Name : CCsites BU No. 876310

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Envelope Joint Reactions (Continued)

Joint	X [k]	LC	Y [k]	LC	Z [k]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC
11 SA3-1 max	.932	2	1.285	34	.597	6	-.022	7	1.384	6	-1.538	8
12 min	-.945	26	.461	9	-.608	30	-.171	47	-1.399	30	-4.142	48
13 Totals: max	6.457	2	8.652	41	5.754	6						
14 min	-6.457	26	3.364	83	-5.754	30						

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

Member	Shape	Code Ch...	Loc[ft]	LC	Shear Check	Loc.....	phi*P...	phi*P...	phi*M...	phi*M.....	Eqn
1 FF-TH	L3X3X4	.518	7	42	.052	14 z	26 15.778	46.656	1.688	2.862	H2-1
2 SF1-TH	L3X3X4	.509	7	47	.054	7 y	34 15.778	46.656	1.688	2.857	H2-1
3 SF2-TH	L3X3X4	.508	7	36	.053	14 z	21 15.778	46.656	1.688	2.866	H2-1
4 SA-3	PIPE 4.0	.391	0	48	.064	0	47 74.402	93.24	10.631	10.631	H1-1b
5 SA-1	PIPE 4.0	.389	0	42	.064	0	42 74.402	93.24	10.631	10.631	H1-1b
6 SA-2	PIPE 4.0	.388	0	37	.064	0	36 74.402	93.24	10.631	10.631	H1-1b
7 SA-3A	HSS4X4X4	.311	0	42	.045	0 z	18 139.0...	139.5...	16.181	16.181	H1-1b
8 SA-2A	HSS4X4X4	.306	0	42	.047	0 z	26 139.0...	139.5...	16.181	16.181	H1-1b
9 SA-1A	HSS4X4X4	.302	0	48	.050	0 y	58 139.0...	139.5...	16.181	16.181	H1-1b
10 GSI-1	L3X3X4	.263	3.584	48	.015	3.5...y	49 35.106	46.656	1.688	3.194	H2-1
11 GSI-3	L3X3X4	.256	3.509	34	.015	3.5...y	43 35.106	46.656	1.688	3.183	H2-1
12 GSI-2	L3X3X4	.252	3.584	42	.015	3.5...y	38 35.106	46.656	1.688	3.199	H2-1
13 MP-1	PIPE 2.0	.220	5.5	63	.022	.5	64 8.922	32.13	1.872	1.872	H1-1b
14 MP-2	PIPE 2.0	.200	1.021	63	.038	5.9...	26 8.922	32.13	1.872	1.872	H1-1b
15 MP-12	PIPE 2.0	.199	6.5	56	.044	1.5	21 8.922	32.13	1.872	1.872	H1-1b
16 MP-8	PIPE 2.0	.193	6.5	34	.039	1.5	29 8.922	32.13	1.872	1.872	H1-1b
17 SA-3C	HSS4.5X4.5X3	.192	0	43	.050	0 z	18 119.0...	121.3...	16.25	16.25	H1-1b
18 SA-2B	HSS4.5X4.5X3	.191	0	38	.052	0 z	26 119.0...	121.3...	16.25	16.25	H1-1b
19 SA-1B	HSS4.5X4.5X3	.191	0	49	.054	0 y	52 119.0...	121.3...	16.25	16.25	H1-1b
20 GSI-1	PIPE 3.0	.190	2	27	.131	2	43 59.853	65.205	5.749	5.749	H1-1b
21 MP-4	PIPE 2.0	.189	6.5	44	.042	1.5	26 8.922	32.13	1.872	1.872	H1-1b
22 GSI-3	PIPE 3.0	.184	2	33	.133	2	34 59.853	65.205	5.749	5.749	H1-1b
23 GSI-2	PIPE 3.0	.178	2	22	.131	2	39 59.853	65.205	5.749	5.749	H1-1b
24 MP-10	PIPE 2.0	.174	1.021	41	.036	5.9...	20 8.922	32.13	1.872	1.872	H1-1b
25 MP-11	PIPE 2.0	.174	5.979	34	.050	1.0...	21 8.922	32.13	1.872	1.872	H1-1b
26 MP-6	PIPE 2.0	.173	1.021	34	.039	5.9...	31 8.922	32.13	1.872	1.872	H1-1b
27 MP-3	PIPE 2.0	.172	5.979	40	.052	1.0...	26 8.922	32.13	1.872	1.872	H1-1b
28 MP-7	PIPE 2.0	.171	5.979	45	.048	1.0...	32 8.922	32.13	1.872	1.872	H1-1b
29 MP-9	PIPE 2.0	.148	5.5	42	.022	.5	26 8.922	32.13	1.872	1.872	H1-1b
30 MP-5	PIPE 2.0	.147	5.5	46	.021	.5	21 8.922	32.13	1.872	1.872	H1-1b
31 GSI-3	LL3x3x4x0	.109	3.944	29	.011	0 z	28 76.346	93.312	6.48	4.36	H1-1b
32 GSI-1	LL3x3x4x0	.107	3.944	18	.011	0 z	33 76.346	93.312	6.48	4.36	H1-1b
33 SF1-TH_1	PIPE 3.0	.106	4.688	19	.092	10....	37 6.489	65.205	5.749	5.749	H1-1b
34 SF2-TH_1	PIPE 3.0	.105	2.474	49	.091	10....	48 6.489	65.205	5.749	5.749	H1-1b
35 FFTH	PIPE 3.0	.105	2.474	43	.092	10....	42 6.489	65.205	5.749	5.749	H1-1b
36 GSI-2	LL3x3x4x0	.085	3.944	31	.010	0 y	38 76.346	93.312	6.48	4.36	H1-1b

Envelope AISI S100-12: LRFD Cold Formed Steel Code Checks

Member	Shape	Code Check	Loc[ft]	She...	Loc.....	L...phi*P...	phi*T...	phi*M...	phi*M...	Cb	Cm...	Cm...	Eqn
No Data to Print ...													

APPENDIX D
ADDITIONAL CALCULATIONS



CCI BU No. 876310

TEP No. 72875.638741

Analysis By: ARH 1/10/2022

Checked By: WHW 1/10/2022

Moment Bolt Group - Connection Plate

Code Revisions: **ANSI/TIA-222-H**
 Bolt Type: **Headed Bolts**

Connection Inputs:

Bolt Size: **0.625** in
 # Bolts: **4**
 Plate Width: **8.000** in
 Plate Height: **8.000** in
 Bolt H Gap: **6.000** in
 Bolt V Gap: **6.000** in
 Plate T: **0.750** in
 Slip Member Ø: **N/A** in
 Bolt Grade: **A325N**

Capacities:

Bolt Capacity= 24.7% **PASS**
 Plate Capacity= 19.2% **PASS**

Bolt Properties:

$F_{y_{bolt}}$: 92.0 ksi
 $F_{u_{bolt}}$: 120.0 ksi
 r: 4.2 in
 J: 72.0 in⁴/in²
 A_{bolt} : 0.3 in²
 $A_{bolt, Net Tensile}$: 0.2 in²
 Pretension: 19.0 kips

Member Properties:

Member Shape: **Round**
 Plate F_y : **35.0** ksi
 Plate F_u : **60.0** ksi
 Member Height: **4.5** in
 Member Width: **4.5** in

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

AT&T Existing Facility

Site ID: CTL02154

876310

945 East Center Street
Wallingford, Connecticut 06492

March 11, 2022

EBI Project Number: 6222001780

Site Compliance Summary	
Compliance Status:	COMPLIANT
Site total MPE% of FCC general population allowable limit:	41.50%

March 11, 2022

AT&T

Emissions Analysis for Site: CTL02154 - 876310

EBI Consulting was directed to analyze the proposed AT&T facility located at **945 East Center Street** in **Wallingford, Connecticut** for the purpose of determining whether the emissions from the Proposed AT&T Antenna Installation located on this property are within specified federal limits.

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

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

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

Public exposure to radio frequencies is regulated and enforced in units of microwatts per square centimeter ($\mu\text{W}/\text{cm}^2$). The general population exposure limits for the 600 MHz and 700 MHz frequency bands are approximately $400 \mu\text{W}/\text{cm}^2$ and $467 \mu\text{W}/\text{cm}^2$, respectively. The general population exposure limit for the 1900 MHz (PCS), 2100 MHz (AWS) and 11 GHz frequency bands is $1000 \mu\text{W}/\text{cm}^2$. Because each carrier will be using different frequency bands, and each frequency band has different exposure limits, it is necessary to report percent of MPE rather than power density.

Occupational/controlled exposure limits apply to situations in which persons are exposed as a consequence of their employment and in which those persons who are exposed have been made fully aware of the potential for exposure and can exercise control over their exposure.

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

Additional details can be found in FCC OET 65.

CALCULATIONS

Calculations were done for the proposed AT&T Wireless antenna facility located at 945 East Center Street in Wallingford, Connecticut using the equipment information listed below. All calculations were performed per the specifications under FCC OET 65. Since AT&T is proposing highly focused directional panel antennas, which project most of the emitted energy out toward the horizon, all calculations were performed assuming a lobe representing the maximum gain of the antenna per the antenna manufacturer's supplied specifications, minus 10 dB for directional panel antennas and 20 dB for highly focused parabolic microwave dishes, was focused at the base of the tower. For this report, the sample point is the top of a 6-foot person standing at the base of the tower. For power density calculations, the broadcast footprint of the AIR6449 antenna has been considered. Due to the beamforming nature of this antenna, the actual beam locations vary depending on demand and are narrow in nature. Using the broadcast footprint accounts for the potential location of beams at any given time.

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

- 1) 4 LTE channels (700 MHz Band) were considered for each sector of the proposed installation. These Channels have a transmit power of 40 Watts per Channel.
- 2) 4 LTE FN channels (700 MHz Band) were considered for each sector of the proposed installation. These Channels have a transmit power of 40 Watts per Channel.
- 3) 4 5G channels (850 MHz Band) were considered for each sector of the proposed installation. These Channels have a transmit power of 40 Watts per Channel.
- 4) 4 LTE / 5G channels (PCS Band - 1900 MHz) were considered for each sector of the proposed installation. These Channels have a transmit power of 40 Watts per Channel.
- 5) 4 LTE / 5G channels (AWS Band – 2100 MHz) were considered for each sector of the proposed installation. These Channels have a transmit power of 60 Watts per Channel.
- 6) 4 LTE channels (WCS Band – 2300 MHz) were considered for each sector of the proposed installation. These Channels have a transmit power of 25 Watts per Channel.

- 7) 2 C-Band Channels (3700 MHz Band) were considered for each sector of the proposed installation. These Channels have a transmit power of 144.58 Watts per Channel.
- 8) All radios at the proposed installation were considered to be running at full power and were uncombined in their RF transmissions paths per carrier prescribed configuration. Per FCC OET Bulletin No. 65 - Edition 97-01 recommendations to achieve the maximum anticipated value at each sample point, all power levels emitting from the proposed antenna installation are increased by a factor of 2.56 to account for possible in-phase reflections from the surrounding environment. This is rarely the case, and if so, is never continuous.
- 9) For the following calculations, the sample point was the top of a 6-foot person standing at the base of the tower. The maximum gain of the antenna per the antenna manufacturer's supplied specifications, minus 10 dB for directional panel antennas and 20 dB for highly focused parabolic microwave dishes, was used in this direction. This value is a very conservative estimate as gain reductions for these particular antennas are typically much higher in this direction.
- 10) The antennas used in this modeling are the CCI TPA65R-BU6D for the 700 MHz / 1900 MHz / 2100 MHz channel(s), the Ericsson AIR 6419 for the 3700 MHz channel(s), the Ericsson AIR 6449 for the 3700 MHz channel(s), the CCI DMP65R-BU6DA for the 700 MHz / 850 MHz / 2300 MHz channel(s) in Sector A, the CCI TPA65R-BU6D for the 700 MHz / 1900 MHz / 2100 MHz channel(s), the Ericsson AIR 6419 for the 3700 MHz channel(s), the Ericsson AIR 6449 for the 3700 MHz channel(s), the CCI DMP65R-BU6DA for the 700 MHz / 850 MHz / 2300 MHz channel(s) in Sector B, the CCI TPA65R-BU6D for the 700 MHz / 1900 MHz / 2100 MHz channel(s), the Ericsson AIR 6419 for the 3700 MHz channel(s), the Ericsson AIR 6449 for the 3700 MHz channel(s), the CCI DMP65R-BU6DA for the 700 MHz / 850 MHz / 2300 MHz channel(s) in Sector C. This is based on feedback from the carrier with regard to anticipated antenna selection. All Antenna gain values and associated transmit power levels are shown in the Site Inventory and Power Data table below. The maximum gain of the antenna per the antenna manufacturer's supplied specifications, minus 10 dB for directional panel antennas and 20 dB for highly focused parabolic microwave dishes, was used for all calculations. This value is a very conservative estimate as gain reductions for these particular antennas are typically much higher in this direction.
- 11) The antenna mounting height centerline of the proposed antennas is 112 feet above ground level (AGL).
- 12) Emissions values for additional carriers were taken from the Connecticut Siting Council active database. Values in this database are provided by the individual carriers themselves.

13) All calculations were done with respect to uncontrolled / general population threshold limits.

AT&T Site Inventory and Power Data

Sector:	A	Sector:	B	Sector:	C
Antenna #:	1	Antenna #:	1	Antenna #:	1
Make / Model:	CCI TPA65R-BU6D	Make / Model:	CCI TPA65R-BU6D	Make / Model:	CCI TPA65R-BU6D
Frequency Bands:	700 MHz / 1900 MHz / 2100 MHz	Frequency Bands:	700 MHz / 1900 MHz / 2100 MHz	Frequency Bands:	700 MHz / 1900 MHz / 2100 MHz
Gain:	12.35 dBd / 15.95 dBd / 16.25 dBd	Gain:	12.35 dBd / 15.95 dBd / 16.25 dBd	Gain:	12.35 dBd / 15.95 dBd / 16.25 dBd
Height (AGL):	112 feet	Height (AGL):	112 feet	Height (AGL):	112 feet
Channel Count:	12	Channel Count:	12	Channel Count:	12
Total TX Power (W):	560.00 Watts	Total TX Power (W):	560.00 Watts	Total TX Power (W):	560.00 Watts
ERP (W):	19,166.17	ERP (W):	19,166.17	ERP (W):	19,166.17
Antenna A1 MPE %:	7.14%	Antenna B1 MPE %:	7.14%	Antenna C1 MPE %:	7.14%
Antenna #:	2	Antenna #:	2	Antenna #:	2
Make / Model:	Ericsson AIR 6419	Make / Model:	Ericsson AIR 6419	Make / Model:	Ericsson AIR 6419
Frequency Bands:	3700 MHz	Frequency Bands:	3700 MHz	Frequency Bands:	3700 MHz
Gain:	23.45 dBd	Gain:	23.45 dBd	Gain:	23.45 dBd
Height (AGL):	114 feet	Height (AGL):	114 feet	Height (AGL):	114 feet
Channel Count:	1	Channel Count:	1	Channel Count:	1
Total TX Power (W):	144.58 Watts	Total TX Power (W):	144.58 Watts	Total TX Power (W):	144.58 Watts
ERP (W):	31,996.92	ERP (W):	31,996.92	ERP (W):	31,996.92
Antenna A2 MPE %:	9.86%	Antenna B2 MPE %:	9.86%	Antenna C2 MPE %:	9.86%
Antenna #:	3	Antenna #:	3	Antenna #:	3
Make / Model:	Ericsson AIR 6449	Make / Model:	Ericsson AIR 6449	Make / Model:	Ericsson AIR 6449
Frequency Bands:	3700 MHz	Frequency Bands:	3700 MHz	Frequency Bands:	3700 MHz
Gain:	23.45 dBd	Gain:	23.45 dBd	Gain:	23.45 dBd
Height (AGL):	110 feet	Height (AGL):	110 feet	Height (AGL):	110 feet
Channel Count:	1	Channel Count:	1	Channel Count:	1
Total TX Power (W):	144.58 Watts	Total TX Power (W):	144.58 Watts	Total TX Power (W):	144.58 Watts
ERP (W):	31,996.92	ERP (W):	31,996.92	ERP (W):	31,996.92
Antenna A3 MPE %:	10.64%	Antenna B3 MPE %:	10.64%	Antenna C3 MPE %:	10.64%
Antenna #:	4	Antenna #:	4	Antenna #:	4
Make / Model:	CCI DMP65R-BU6DA	Make / Model:	CCI DMP65R-BU6DA	Make / Model:	CCI DMP65R-BU6DA
Frequency Bands:	700 MHz / 850 MHz / 2300 MHz	Frequency Bands:	700 MHz / 850 MHz / 2300 MHz	Frequency Bands:	700 MHz / 850 MHz / 2300 MHz
Gain:	11.85 dBd / 12.45 dBd / 16.25 dBd	Gain:	11.85 dBd / 12.45 dBd / 16.25 dBd	Gain:	11.85 dBd / 12.45 dBd / 16.25 dBd
Height (AGL):	112 feet	Height (AGL):	112 feet	Height (AGL):	112 feet
Channel Count:	12	Channel Count:	12	Channel Count:	12
Total TX Power (W):	420.00 Watts	Total TX Power (W):	420.00 Watts	Total TX Power (W):	420.00 Watts
ERP (W):	9,479.38	ERP (W):	9,479.38	ERP (W):	9,479.38
Antenna A4 MPE %:	4.61%	Antenna B4 MPE %:	4.61%	Antenna C4 MPE %:	4.61%

- An adjusted power reduction factor of 0.32 was applied to the AIR 6449 antennas per guidance from AT&T.
- Specifications were not available for the Ericsson AIR 6419 antenna. Per AT&T, specifications for the AIR 6449 antenna were used to model the 6419 due to its similarity.

Site Composite MPE %	
Carrier	MPE %
AT&T (Max at Sector A):	32.25%
Dish	1.26%
Verizon	6.66%
Clearwire	0.12%
Sprint	1.21%
Site Total MPE % :	41.50%

AT&T MPE % Per Sector	
AT&T Sector A Total:	32.25%
AT&T Sector B Total:	32.25%
AT&T Sector C Total:	32.25%
Site Total MPE % :	41.50%

AT&T Maximum MPE Power Values (Sector A)							
AT&T Frequency Band / Technology (Sector A)	# Channels	Watts ERP (Per Channel)	Height (feet)	Total Power Density ($\mu\text{W}/\text{cm}^2$)	Frequency (MHz)	Allowable MPE ($\mu\text{W}/\text{cm}^2$)	Calculated % MPE
AT&T 700 MHz LTE FN	4	687.16	112.0	8.79	700 MHz LTE FN	467	1.88%
AT&T 1900 MHz LTE/5G	4	1574.20	112.0	20.15	1900 MHz LTE/5G	1000	2.01%
AT&T 2100 MHz LTE/5G	4	2530.18	112.0	32.38	2100 MHz LTE/5G	1000	3.24%
AT&T 3700 MHz C-Band	1	31996.92	114.0	98.62	3700 MHz C-Band	1000	9.86%
AT&T 3700 MHz C-Band	1	31996.92	110.0	106.36	3700 MHz C-Band	1000	10.64%
AT&T 700 MHz LTE	4	612.43	112.0	7.84	700 MHz LTE	467	1.68%
AT&T 850 MHz 5G	4	703.17	112.0	9.00	850 MHz 5G	567	1.59%
AT&T 2300 MHz LTE	4	1054.24	112.0	13.49	2300 MHz LTE	1000	1.35%
						Total:	32.25%

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

Summary

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

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

AT&T Sector	Power Density Value (%)
Sector A:	32.25%
Sector B:	32.25%
Sector C:	32.25%
AT&T Maximum MPE % (Sector A):	32.25%
Site Total:	41.50%
Site Compliance Status:	COMPLIANT

The anticipated composite MPE value for this site assuming all carriers present is **41.50%** of the allowable FCC established general population limit sampled at the ground level. This is based upon values listed in the Connecticut Siting Council database for existing carrier emissions.

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

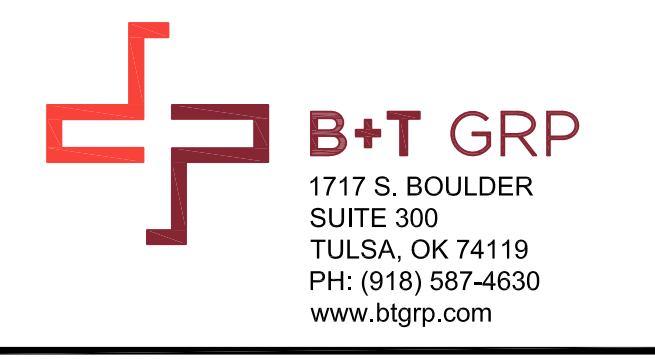


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DISCLAIMER PROVIDED BY AT&T. THIS STATEMENT DOES NOT CONSTITUTE ENGINEERING ANALYSIS OR DESIGN.



AT&T SITE NUMBER: CTL02154
AT&T SITE NAME: WALLINGFORD
AT&T FA CODE: 10035139
AT&T PACE NUMBER: MRCTB056529, MRCTB053994, MRCTB056531, MRCTB056017, MRCTB056531
AT&T PROJECT: 5G NR 1SR CBAND, ANTENNA RETROFIT, BBU RECONFIGURATION

BUSINESS UNIT #: 876310
SITE ADDRESS: 945 EAST CENTER ST. WALLINGFORD, CT 06492
COUNTY: NEW HAVEN
SITE TYPE: MONOPOLE
TOWER HEIGHT: 148'-0"



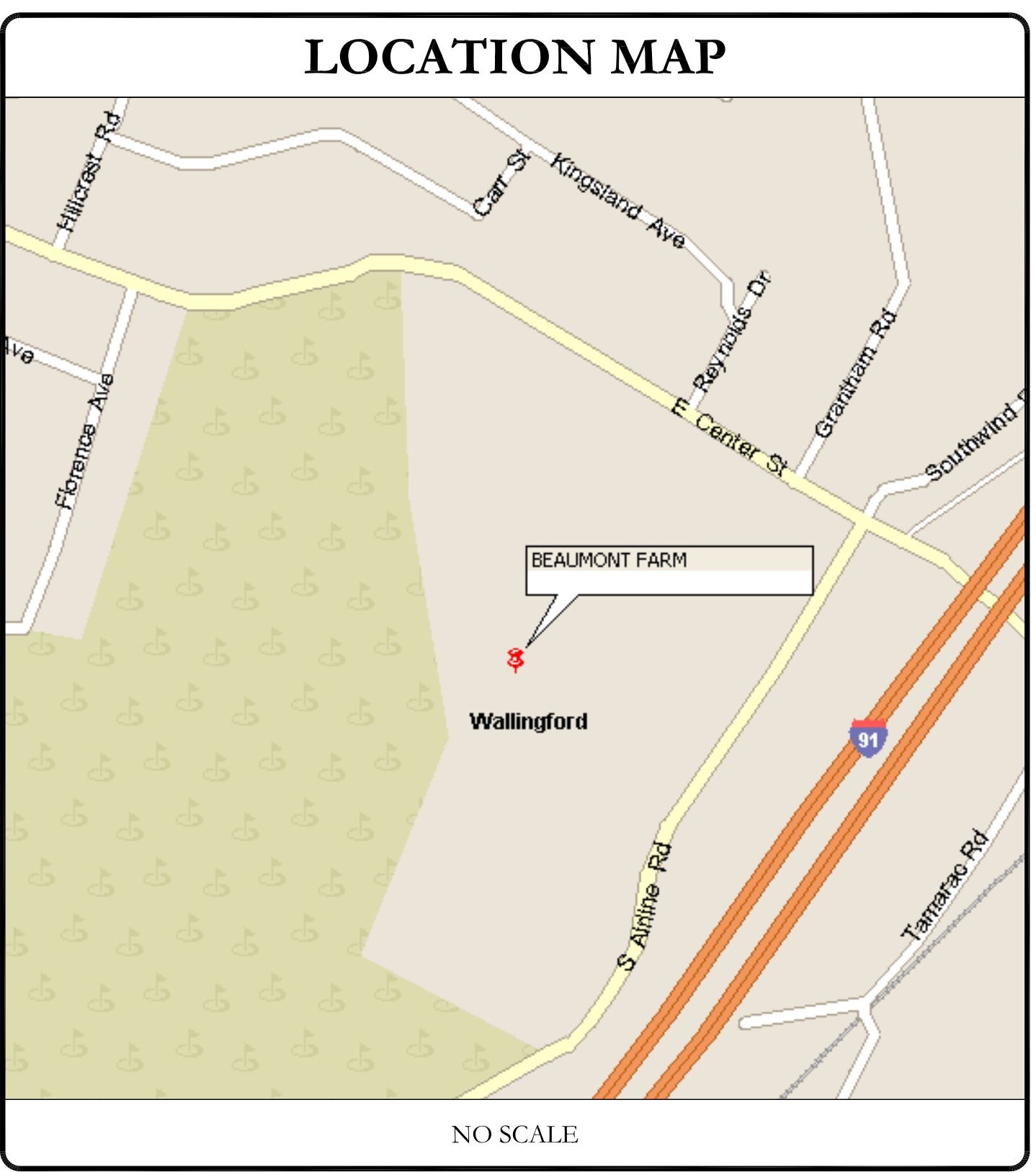
AT&T SITE NUMBER: CTL02154
BU #: 876310
BEAUMONT FARM
 945 EAST CENTER ST. WALLINGFORD, CT 06492
 EXISTING 148'-0" MONOPOLE

SITE INFORMATION	
CROWN CASTLE USA INC. SITE NAME:	BEAUMONT FARM
SITE ADDRESS:	945 EAST CENTER ST. WALLINGFORD, CT 06492
COUNTY:	NEW HAVEN
MAP/PARCEL #:	151/98/2
AREA OF CONSTRUCTION:	EXISTING
LATITUDE:	41° 26' 37.32"
LONGITUDE:	-72° 47' 46.68"
LAT/LONG TYPE:	NAD83
GROUND ELEVATION:	245'
CURRENT ZONING:	R18
JURISDICTION:	CONNECTICUT SITING COUNCIL
OCCUPANCY CLASSIFICATION:	U
TYPE OF CONSTRUCTION:	IIB
A.D.A. COMPLIANCE:	FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION
PROPERTY OWNER:	AT&T WIRELESS PCS INC 754 PEACHTREE ST NE ATLANTA, GA 30308
TOWER OWNER:	CROWN CASTLE USA INC 2000 CORPORATE DRIVE CANONSBURG, PA 15317
CARRIER/APPLICANT:	AT&T TOWER ASSET GROUP 575 MOROSGO DRIVE ATLANTA, GA 30324-3300
ELECTRIC PROVIDER:	WALLINGFORD ELECTRIC 203-265-5055
TELCO PROVIDER:	AT&T MOBILITY

DRAWING INDEX	
SHEET #	SHEET DESCRIPTION
T-1	TITLE SHEET
T-2	GENERAL NOTES
C-1.1	SITE PLAN
C-1.2	EXISTING & FINAL EQUIPMENT PLANS
C-2	FINAL ELEVATION & ANTENNA PLANS
C-3	FINAL EQUIPMENT SCHEDULE
C-4	EQUIPMENT MOUNTING DETAILS
C-5	EQUIPMENT SPECS
C-5.1	EQUIPMENT SPECS
E-1	POWER ANALYSIS
G-1	GROUNDING SCHEMATIC
G-2	GROUNDING DETAILS

ALL DRAWINGS CONTAINED HEREIN ARE FORMATTED FOR FULL SIZE. CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

CALL CONNECTICUT ONE CALL (800) 922-4455 CBYD.COM CALL 2 WORKING DAYS BEFORE YOU DIG!



PROJECT TEAM	
A&E FIRM:	B+T GROUP 1717 S. BOULDER AVE. TULSA, OK 74119 MARVIN PHILLIPS MARVIN.PHILLIPS@BTGRP.COM
CROWN CASTLE USA INC. DISTRICT CONTACTS:	3530 TORINGDON WAY, SUITE 300 CHARLOTTE, NC 28277 PAUL PEDICONE - PROJECT MANAGER PAUL.PEDICONE@CROWNCastle.COM JASON DAMICO - CONSTRUCTION MANAGER JASON.DAMICO@CROWNCastle.COM
NOTE:	PRIOR TO ACCESSING/ENTERING THE SITE YOU MUST CONTACT THE CROWN NOC AT (800) 788-7011 & CROWN CONSTRUCTION MANAGER.

PROJECT DESCRIPTION

THE PURPOSE OF THIS PROJECT IS TO ENHANCE BROADBAND CONNECTIVITY AND CAPACITY TO THE EXISTING ELIGIBLE WIRELESS FACILITY.

TOWER SCOPE OF WORK:

- REMOVE (3) POWERWAVE - 7770 ANTENNAS
- REMOVE (3) CCI - HPA-65R-BU6DA-K ANTENNAS
- REMOVE (3) QUINTEL - QS66512-2 ANTENNAS
- REMOVE (6) POWERWAVE - LJP21401 TMAs
- REMOVE (3) ERICSSON - RRUS-11 B12 RRUs
- REMOVE (3) ERICSSON - RRUS-12 B2 + RRUS-A2 B25
- REMOVE (6) KAELUS - DBCT108F1V92-1 DIPLEXERS
- REMOVE (6) COAX CABLE (1-1/4")
- RELOCATE (3) ERICSSON - RRUS-32 B30 RRUs
- RELOCATE (2) ERICSSON - 4478 B14 RRUs
- INSTALL (3) CCI - TPA65R-BU6DA-K ANTENNAS
- INSTALL (6) ERICSSON - AIR6449 B77D+AIR6419 B77G STACKED ANTENNAS
- INSTALL (3) CCI - DMP65R-BU6DA ANTENNAS
- INSTALL (3) ERICSSON - 4415 B25 RRUs
- INSTALL (3) ERICSSON - 4449 B5/B12 RRUs
- INSTALL (1) ERICSSON - 4478 B14 RRUs
- INSTALL (3) COMMSCOPE - PWRT-606-S DC TRUNK DC CABLES (7/8")
- INSTALL (1) ROSENBERGER LEONI - FB-1.98B-235-XXX FIBER CABLE (3/8")
- INSTALL (3) Y CABLES

GROUND SCOPE OF WORK:

- RELOCATE (2) ERICSSON - 4478 B14 RRUs TO TOWER
- REMOVE (6) LJP21901 DIPLEXER
- REMOVE (3) ERICSSON - 4478 B5
- REMOVE (1) 5216 BBU
- INSTALL (1) RECTIFIER IN EXISTING POWER PLANT
- INSTALL 6648(+Xcede)

NOTE:
THE POWER DESIGN FOR ANY AC ELECTRICAL POWER CHANGES IS TO BE PERFORMED BY OTHERS AND IS SHOWN HERE FOR REFERENCE PURPOSES ONLY. AT&T IS SOLELY RESPONSIBLE FOR THE ELECTRICAL POWER DESIGN.

APPLICABLE CODES/REFERENCE DOCUMENTS	
ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES:	
CODE TYPE	CODE
BUILDING	2015 IBC W/ AMENDMENTS
MECHANICAL	2015 IMC W/ AMENDMENTS
ELECTRICAL	2017 NEC
REFERENCE DOCUMENTS:	
STRUCTURAL ANALYSIS:	BY OTHERS
DATED:	
MOUNT ANALYSIS:	TEP
DATED:	1/10/22
AC ELECTRICAL POWER DESIGN:	BY OTHERS
DATED:	
RFDS REVISION:	FINAL
DATED:	1/14/22
ORDER ID:	586260
REVISION:	0

ISSUED FOR:				
REV	DATE	DRWN	DESCRIPTION	DES./QA
A	1/17/22	GAC	PRELIMINARY REVIEW	CMV
B	1/24/22	GAC	PRELIMINARY REVIEW	CMV
0	2/22/22	GAC	CONSTRUCTION	KT

B&T ENGINEERING, INC.
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SHEET NUMBER: T-1	REVISION: 0
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100049.004.01_876310_BEAMONT_FARM.dwg - SheetT-1 - User: kevin.turkoll - Feb 22, 2022 - 8:33am

CROWN CASTLE USA INC. SITE ACTIVITY REQUIREMENTS:

- 1. NOTICE TO PROCEED- NO WORK SHALL COMMENCE PRIOR TO CROWN CASTLE USA INC. WRITTEN NOTICE TO PROCEED (NTP) AND THE ISSUANCE OF A PURCHASE ORDER. PRIOR TO ACCESSING/ENTERING THE SITE YOU MUST CONTACT THE CROWN CASTLE USA INC. NOC AT 800-788-7011 & THE CROWN CASTLE USA INC. CONSTRUCTION MANAGER.

GREENFIELD GROUNDING NOTES:

- 1. ALL GROUND ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION AND AC POWER GES'S) SHALL BE BONDED TOGETHER AT OR BELOW GRADE, BY TWO OR MORE COPPER BONDING CONDUCTORS IN ACCORDANCE WITH THE NEC.

GENERAL NOTES:

- 1. FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY: CONTRACTOR: GENERAL CONTRACTOR RESPONSIBLE FOR CONSTRUCTION CARRIER: AT&T TOWER OWNER: CROWN CASTLE USA INC.

CONCRETE, FOUNDATIONS, AND REINFORCING STEEL:

- 1. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 301, ACI 318, ACI 336, ASTM A184, ASTM A185 AND THE DESIGN AND CONSTRUCTION SPECIFICATION FOR CAST-IN-PLACE CONCRETE.

ELECTRICAL INSTALLATION NOTES:

- 1. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, NEC AND ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES/ORDINANCES.

Table with 3 columns: SYSTEM, CONDUCTOR, COLOR. Lists color codes for various conductor types and voltages.

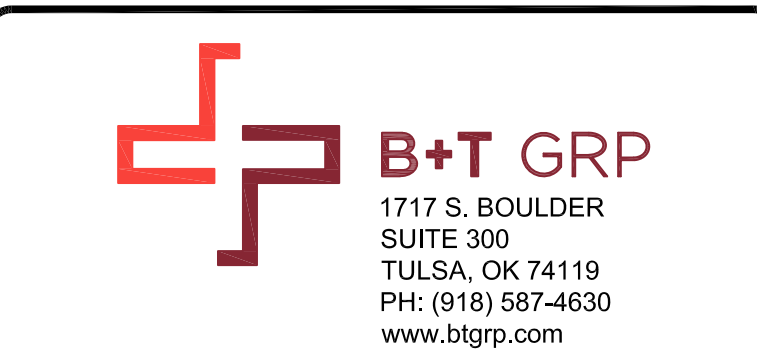
APWA UNIFORM COLOR CODE:

- WHITE PROPOSED EXCAVATION
PINK TEMPORARY SURVEY MARKINGS
RED ELECTRIC POWER LINES, CABLES, CONDUIT, AND LIGHTING CABLES

ABBREVIATIONS:

- ANT ANTENNA
(E) EXISTING
FIF FACILITY INTERFACE FRAME

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AT&T SITE NUMBER: CTL02154
BU #: 876310
BEAUMONT FARM
945 EAST CENTER ST. WALLINGFORD, CT 06492
EXISTING 148'-0" MONOPOLE

Table with 5 columns: REV, DATE, DRWN, DESCRIPTION, DES./QA. Shows revision history.



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SHEET NUMBER: T-2 REVISION: 0

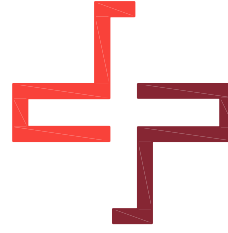
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 OR DESIGN.



AT&T
 575 MOROSGO DRIVE
 ATLANTA, GA 30324-3300



**CROWN
 CASTLE**
 3530 TORINGDON WAY, SUITE 300
 CHARLOTTE, NC 28277



B+T GRP
 1717 S. BOULDER
 SUITE 300
 TULSA, OK 74119
 PH: (918) 587-4630
 www.blgrp.com

AT&T SITE NUMBER:
CTL02154


BU #: **876310**
BEAUMONT FARM

945 EAST CENTER ST.
 WALLINGFORD, CT
 06492

EXISTING
 148'-0" MONOPOLE

ISSUED FOR:

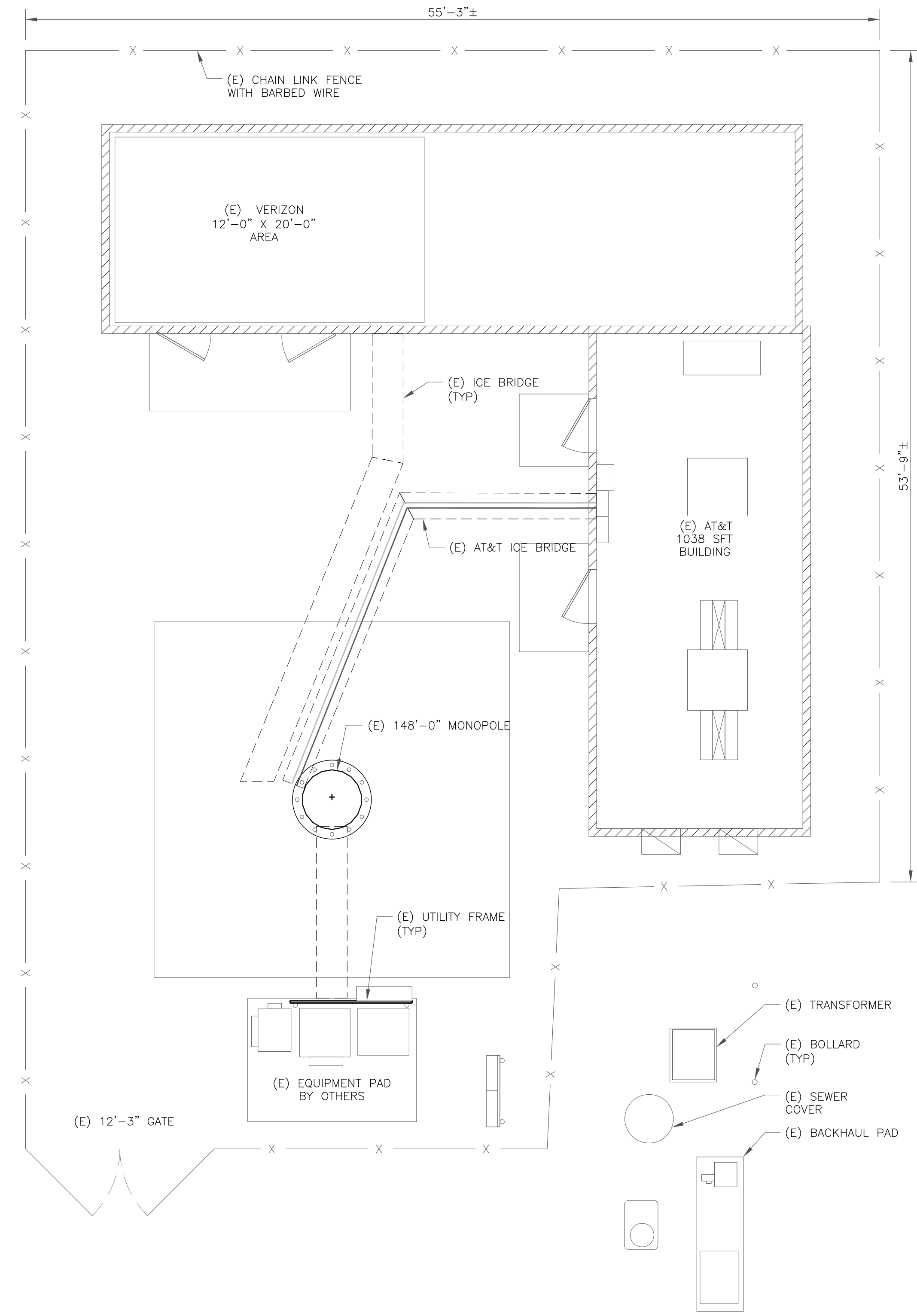
REV	DATE	DRWN	DESCRIPTION	DES./QA
A	1/17/22	GAC	PRELIMINARY REVIEW	CMV
B	1/24/22	GAC	PRELIMINARY REVIEW	CMV
0	2/22/22	GAC	CONSTRUCTION	KT

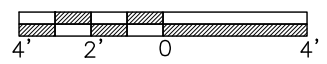


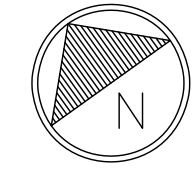
2/22/22

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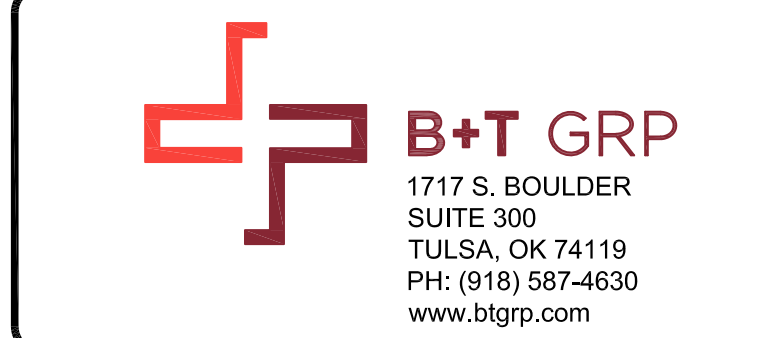
1 SITE PLAN
 SCALE:  3/16"=1'-0" (FULL SIZE)
 3/32"=1'-0" (11x17)



SHEET NUMBER: **C-1.1** REVISION: **0**

100049.004.01_876310_BEAUMONT_FARM.dwg - Sheet: C-1.1 - User: kevin.turkall - Feb 22, 2022 - 8:34am

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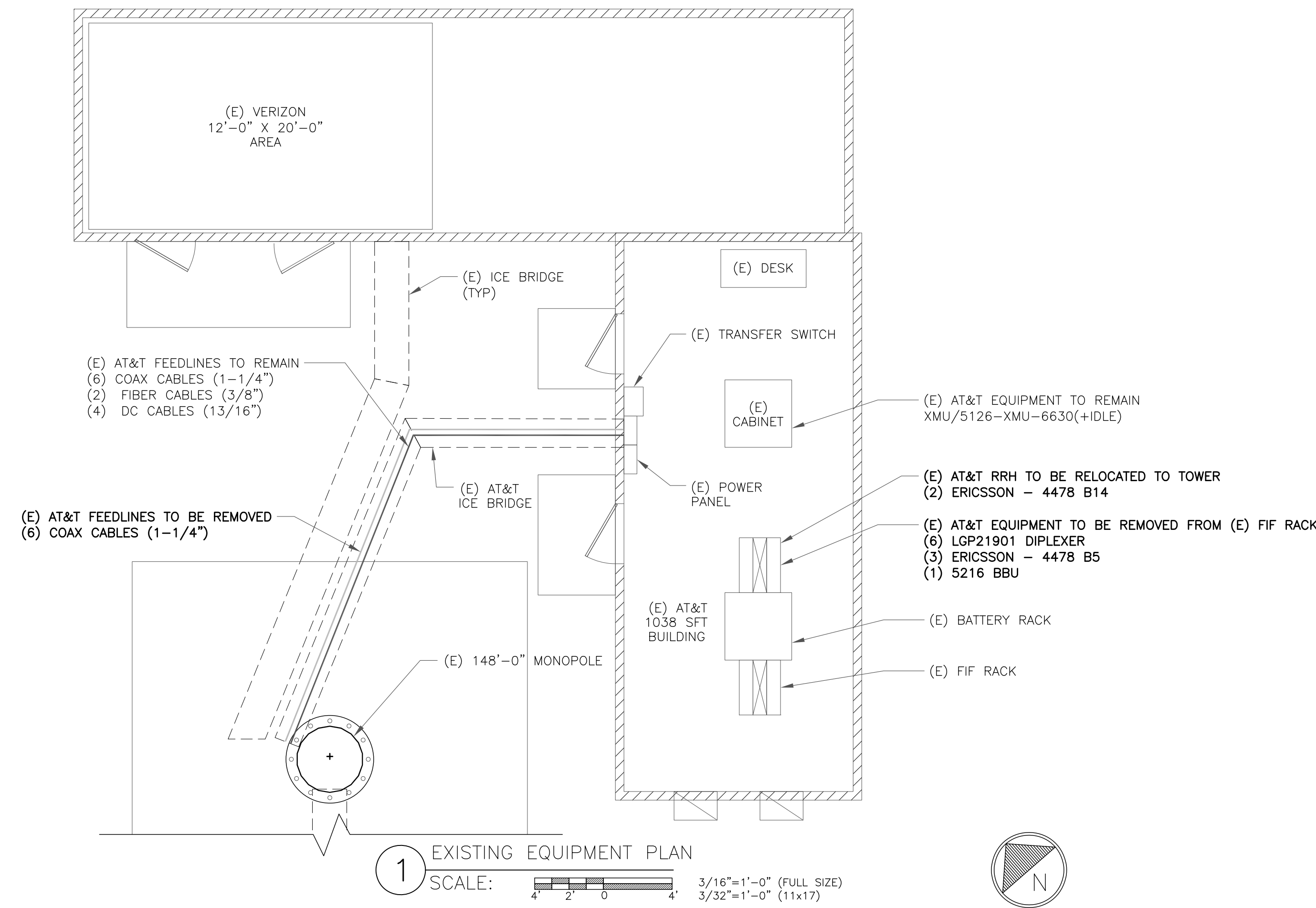


AT&T SITE NUMBER:
CTL02154

BU #: **876310**
BEAUMONT FARM

945 EAST CENTER ST.
 WALLINGFORD, CT
 06492

EXISTING
 148'-0" MONOPOLE

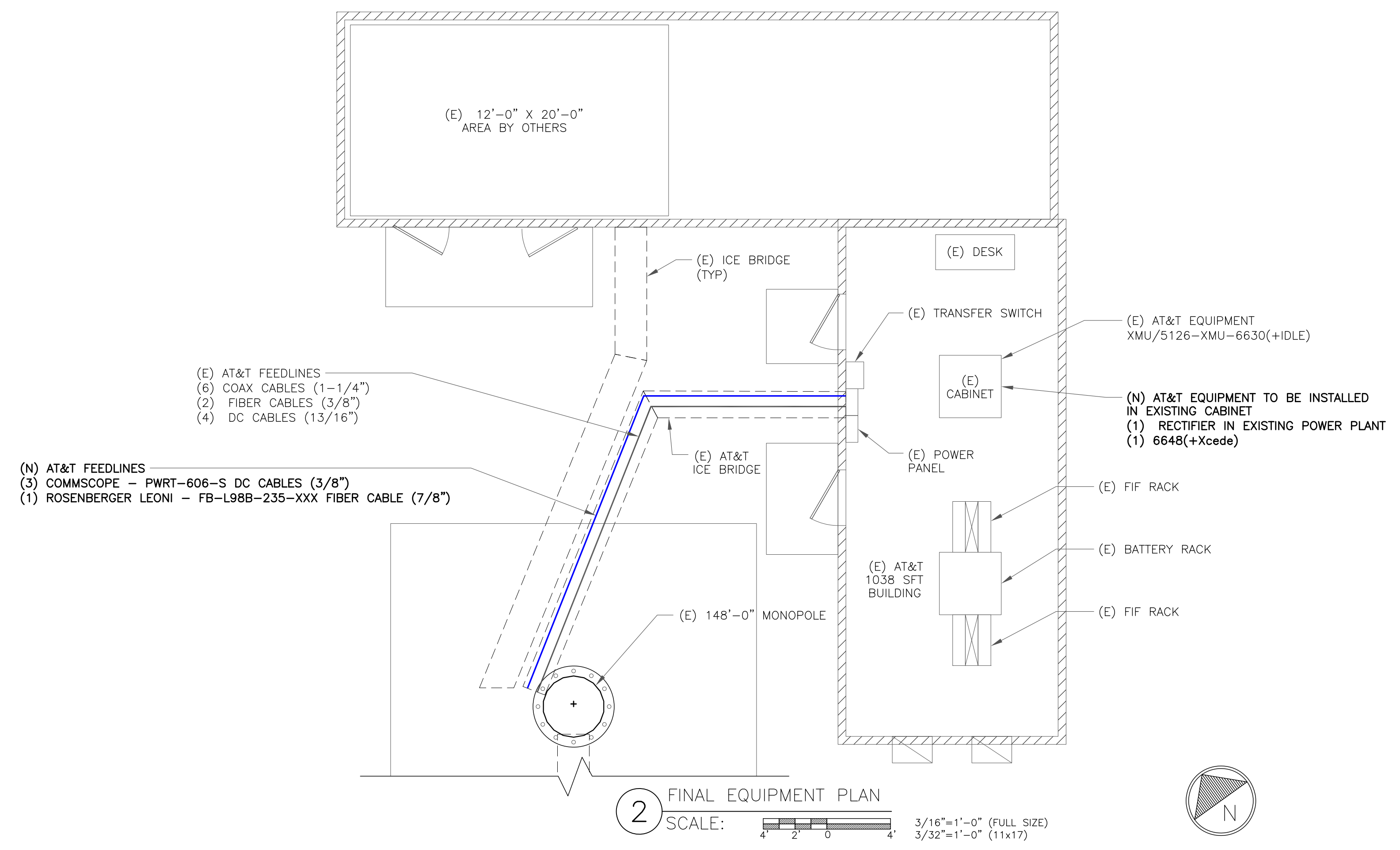


- GROUND SCOPE OF WORK:
- RELOCATE (2) ERICSSON - 4478 B14 RRHS TO TOWER
 - REMOVE (6) LGP21901 DIPLEXER
 - REMOVE (3) ERICSSON - 4478 B5
 - REMOVE (1) 5216 BBU
 - INSTALL (1) RECTIFIER IN EXISTING POWER PLANT
 - INSTALL 6648(+Xcede)

NOTE:
 THE POWER DESIGN FOR ANY AC ELECTRICAL POWER CHANGES IS TO BE PERFORMED BY OTHERS AND IS SHOWN HERE FOR REFERENCE PURPOSES ONLY. AT&T IS SOLELY RESPONSIBLE FOR THE ELECTRICAL POWER DESIGN.

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
A	1/17/22	GAC	PRELIMINARY REVIEW	CMV
B	1/24/22	GAC	PRELIMINARY REVIEW	CMV
0	2/22/22	GAC	CONSTRUCTION	KT



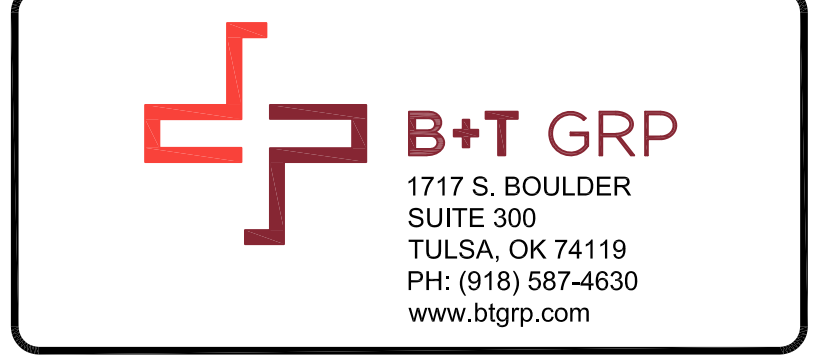
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AT&T SITE NUMBER:
CTL02154

BU #: **876310**
BEAUMONT FARM

945 EAST CENTER ST.
 WALLINGFORD, CT
 06492

EXISTING
 148'-0" MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
A	1/17/22	GAC	PRELIMINARY REVIEW	CMV
B	1/24/22	GAC	PRELIMINARY REVIEW	CMV
0	2/22/22	GAC	CONSTRUCTION	KT

INSTALLER NOTES:

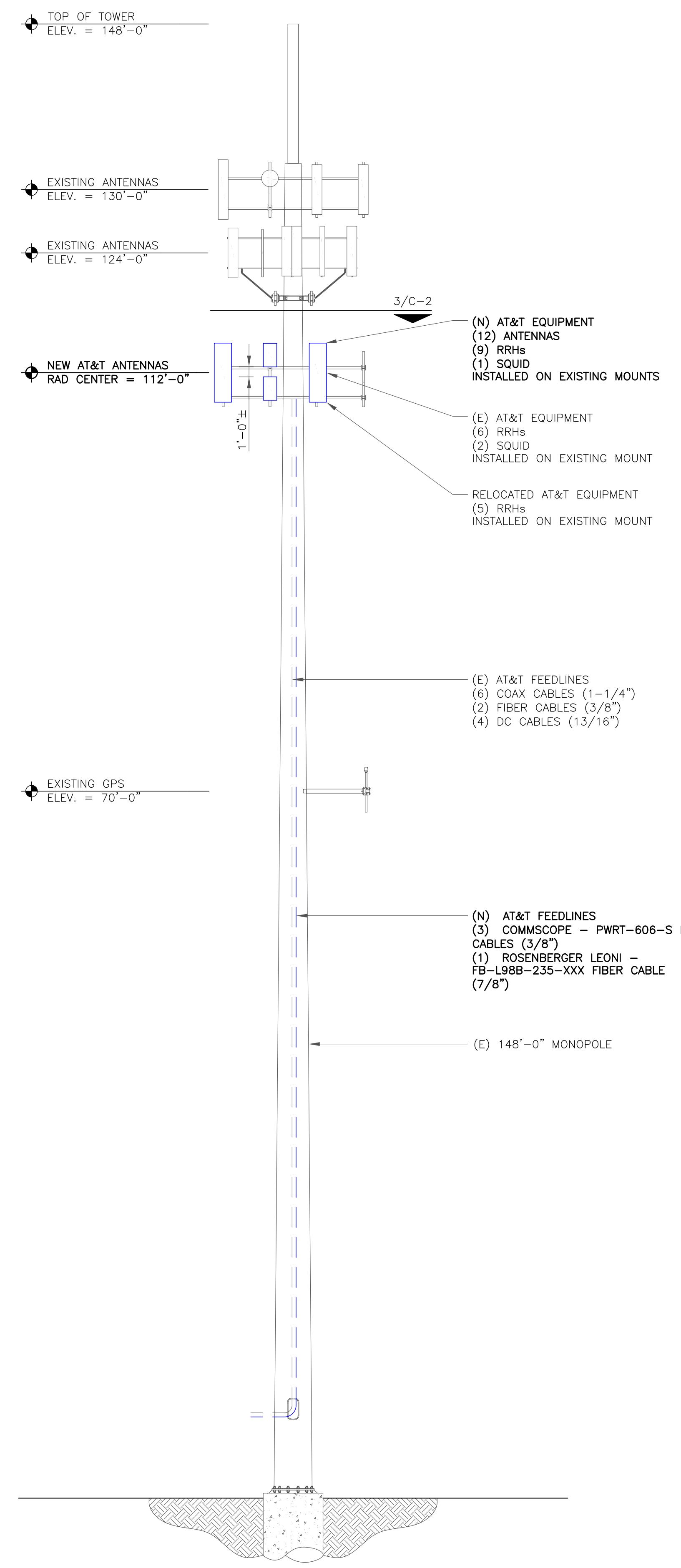
- REFERENCE C-3 FOR FINAL EQUIPMENT SCHEDULE.
- REFERENCE C-4 FOR NEW EQUIPMENT SPECIFICATIONS.
- CONTRACTOR TO VERIFY ALL ANTENNA TIP HEIGHTS DO NOT EXCEED BEACON BASE HEIGHT.
- 3'-0" MINIMUM DISTANCE REQUIRED BETWEEN LTE ANTENNAS ON SAME SECTOR.
- 6'-0" MINIMUM DISTANCE REQUIRED BETWEEN 700BC & 700DE ANTENNAS ON SAME SECTOR.
- 4'-0" MINIMUM DISTANCE REQUIRED BETWEEN LTE 700 ANTENNAS ON OPPOSING SECTORS.
- ALL ANTENNA MEASUREMENT DISTANCES MUST BE EDGE TO EDGE (RELOCATE ANTENNAS AS NEEDED).
- 8" MINIMUM DISTANCE REQUIRED BETWEEN ANTENNA & RADIO. SEE GENERIC EXAMPLE DETAIL ON SHEET C-4.

Professional Engineer Seal: No. 23924, License, 2/22/22

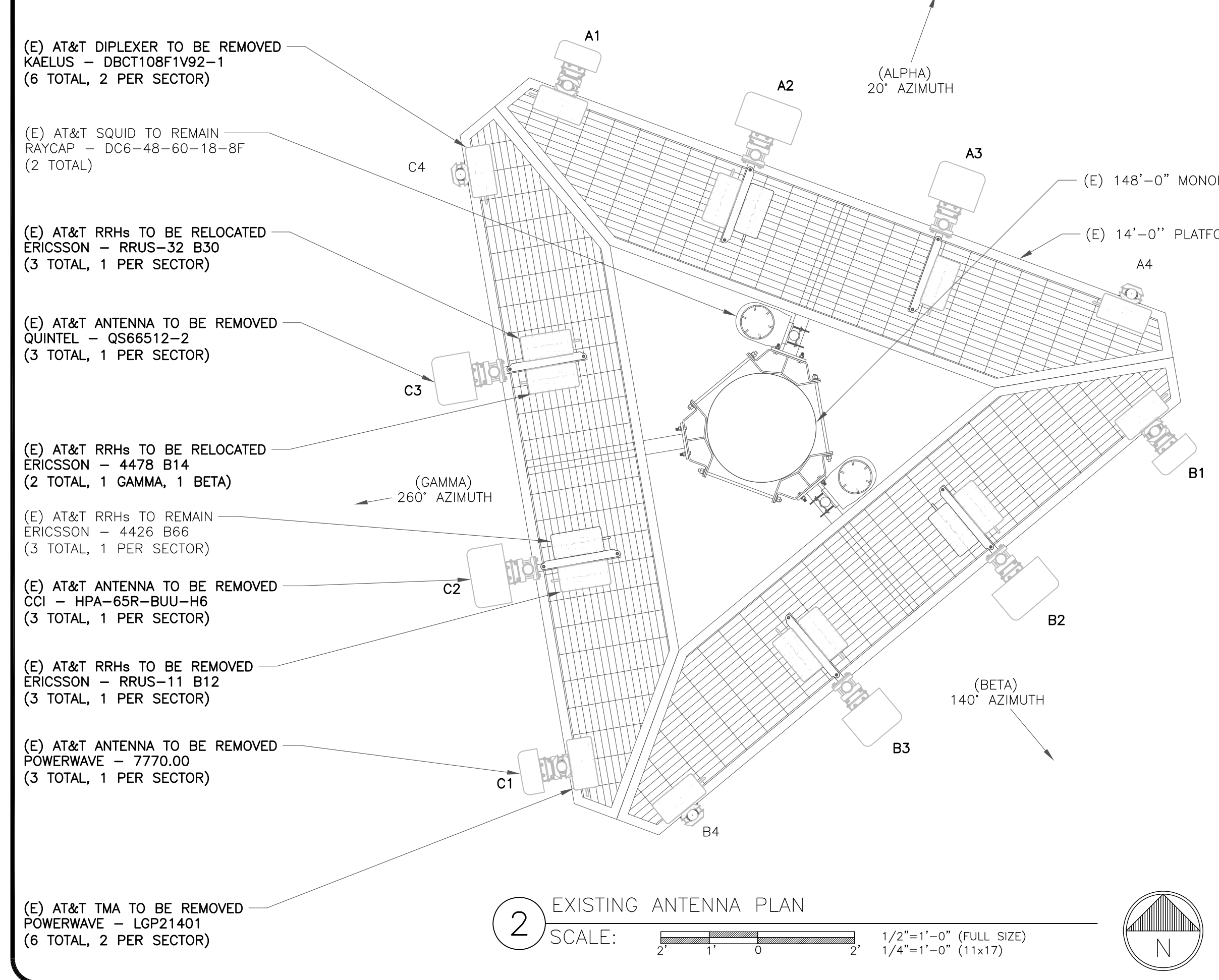
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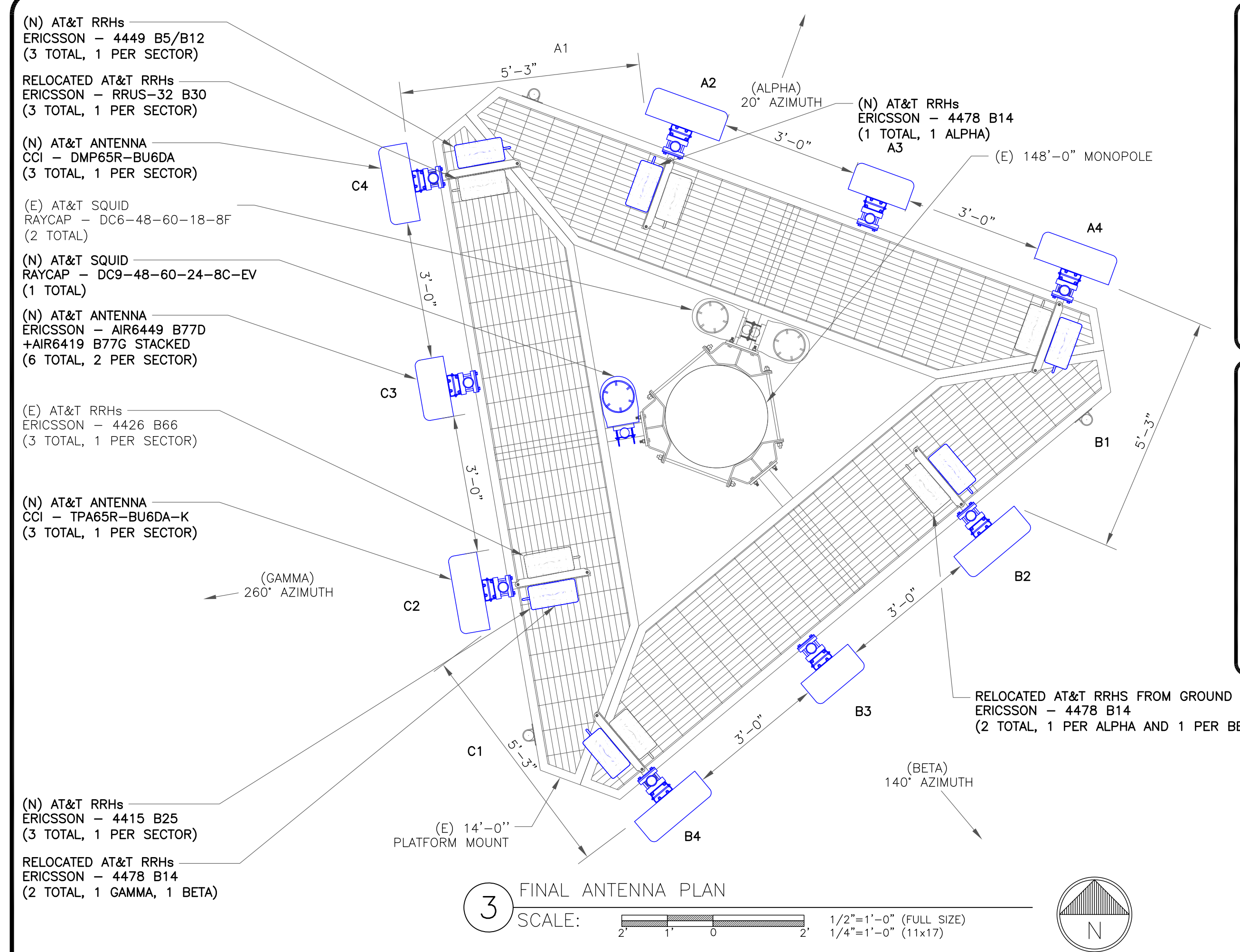
SHEET NUMBER: **C-2** REVISION: **0**



1 FINAL ELEVATION
 SCALE: NOT TO SCALE



2 EXISTING ANTENNA PLAN
 SCALE: 1/2"=1'-0" (FULL SIZE), 1/4"=1'-0" (11x17)



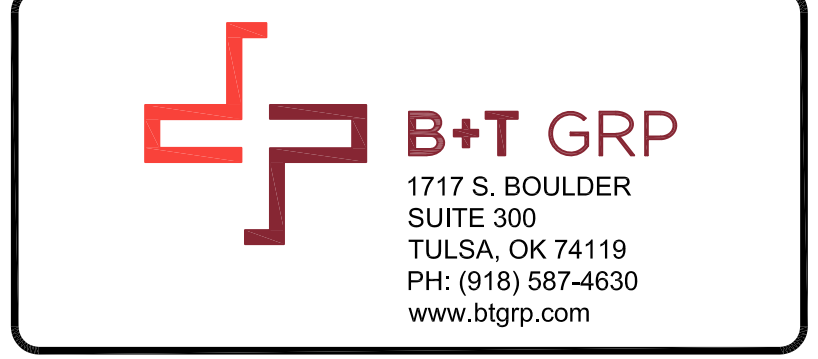
3 FINAL ANTENNA PLAN
 SCALE: 1/2"=1'-0" (FULL SIZE), 1/4"=1'-0" (11x17)

"LOOK UP" - CROWN CASTLE USA INC. SAFETY CLIMB REQUIREMENT:

THE INTEGRITY OF THE SAFETY CLIMB AND ALL COMPONENTS OF THE CLIMBING FACILITY SHALL BE CONSIDERED DURING ALL STAGES OF DESIGN, INSTALLATION, AND INSPECTION. TOWER MODIFICATION, MOUNT REINFORCEMENTS, AND/OR EQUIPMENT INSTALLATIONS SHALL NOT COMPROMISE THE INTEGRITY OR FUNCTIONAL USE OF THE SAFETY CLIMB OR ANY COMPONENTS OF THE CLIMBING FACILITY ON THE STRUCTURE. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO: PINCHING OF THE WIRE ROPE, BENDING OF THE WIRE ROPE FROM ITS SUPPORTS, DIRECT CONTACT OR CLOSE PROXIMITY TO THE WIRE ROPE WHICH MAY CAUSE FRICTIONAL WEAR, IMPACT TO THE ANCHORAGE POINTS IN ANY WAY, OR TO IMPEDE/BLOCK ITS INTENDED USE. ANY COMPROMISED SAFETY CLIMB, INCLUDING EXISTING CONDITIONS MUST BE TAGGED OUT AND REPORTED TO YOUR CROWN CASTLE USA INC. POC OR CALL THE NOC TO GENERATE A SAFETY CLIMB MAINTENANCE AND CONTRACTOR NOTICE TICKET.

100049.004.01_876310_BEAMONT_FARM.dwg - Sheet: C-2 - User: kevin.turkoll - Feb 22, 2022 - 8:34am

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AT&T SITE NUMBER:
CTL02154

BU #: **876310**
BEAUMONT FARM

945 EAST CENTER ST.
 WALLINGFORD, CT
 06492

EXISTING
 148'-0" MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
A	1/17/22	GAC	PRELIMINARY REVIEW	CMV
B	1/24/22	GAC	PRELIMINARY REVIEW	CMV
0	2/22/22	GAC	CONSTRUCTION	KT

B&T ENGINEERING, INC.
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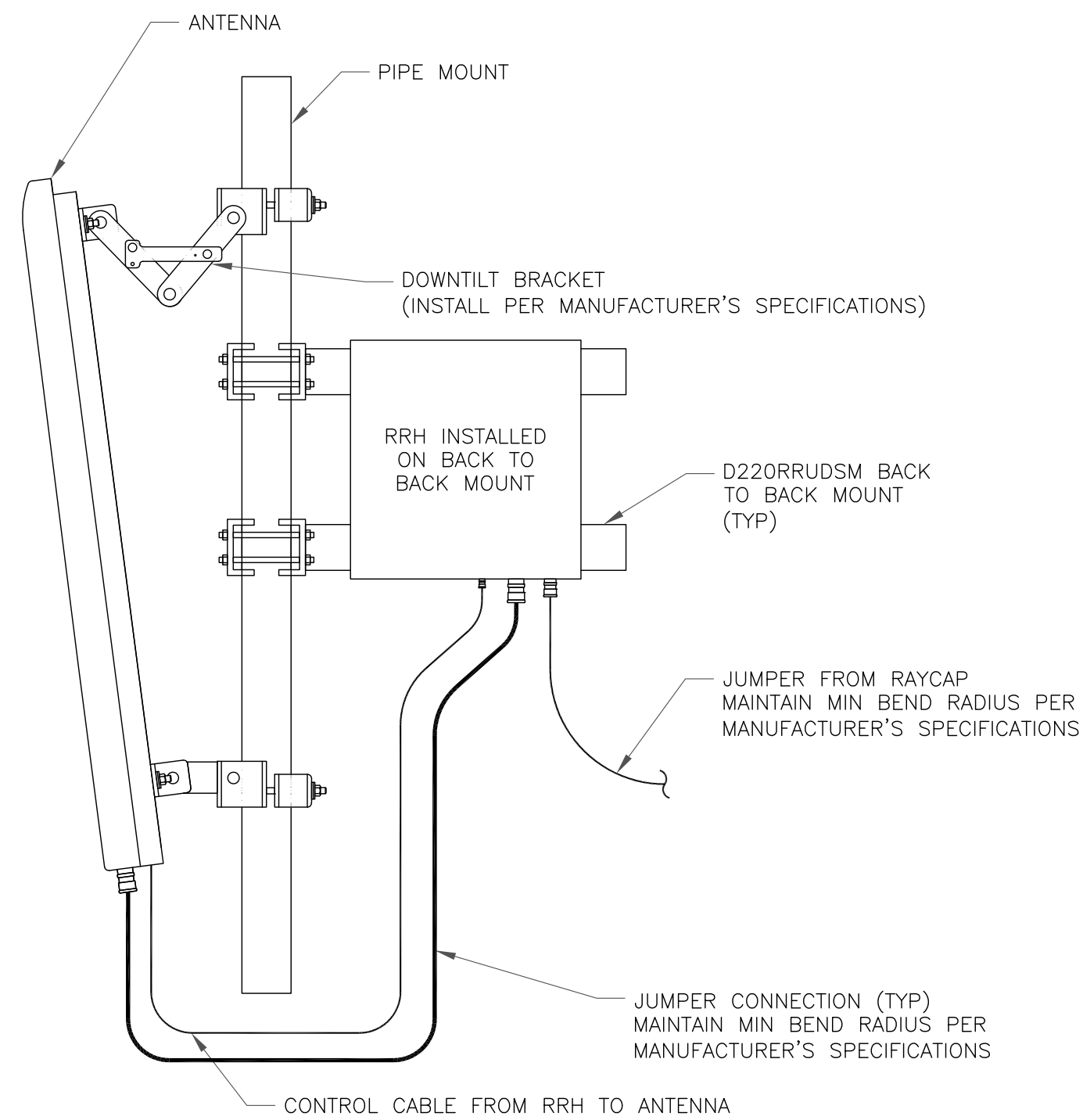
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FINAL ANTENNA AND FEEDLINE SCHEDULE

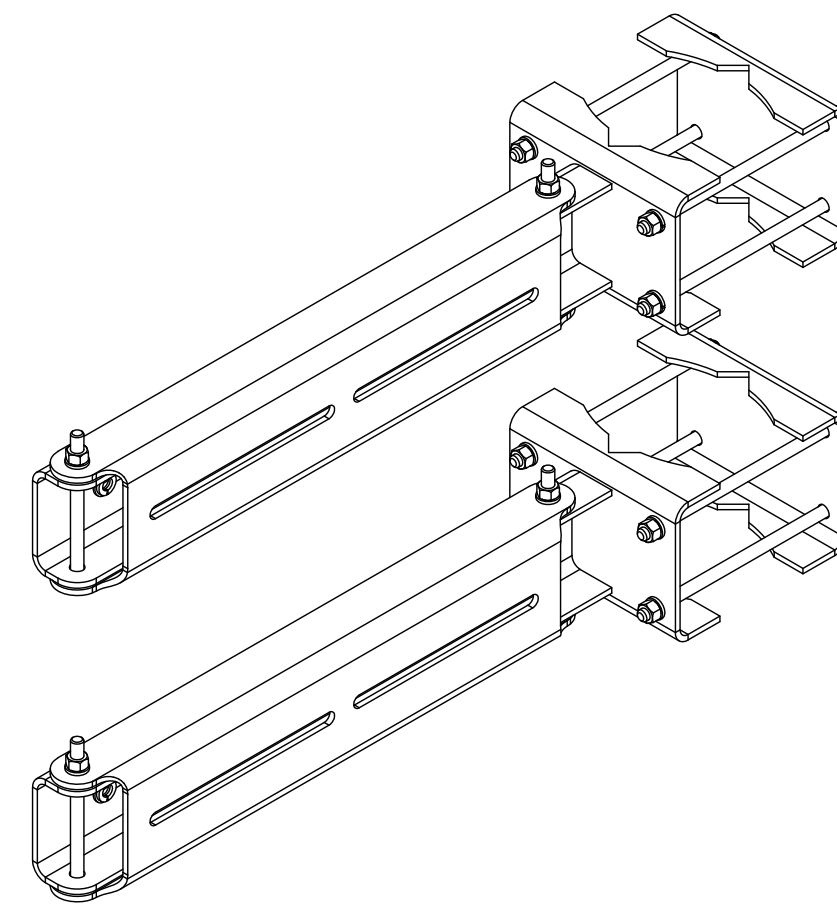
POS.	TECH	STATUS	AZIMUTH	ANTENNA TYPE	ANTENNA RAD CENTER	MECHANICAL DOWNTILT	ELECTRICAL DOWNTILT	MAIN COAX SIZE	MAIN COAX LENGTH	COAX QTY	TMA QTY AND MODEL	SURGE PROTECTION	DC/FIBER CABLES	RRHs QTY & MODEL ON TOWER	LOCATION	DIPLEXER ON TOWER	DIPLEXER ON GROUND	RET CABLE
ALPHA SECTOR																		
A1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A2	LTE 700/LTE 1900/LTE AWS/5G AWS/5G 1900	NEW	20°	CCI TPA65R-BU6DA-K	112'-0"	0°	3°/4°/4°/4°/4°	1-1/4"	162'-0"	2	-	(2) DC6-48-60-18-8F SQUID	(4) PWRT-608-S DC CABLES (2) FB-L98B-034-XXX FIBER CABLES	(1) ERICSSON - 4478 B14 (1) ERICSSON B25 - 4415 (1) ERICSSON - 4426 B66	TOWER	N	N	N
A3	5G CBAND	NEW	20°	ERICSSON AIR6449 B77D+AIR6419 B77G STACKED	112'-0"	0°	0°	-	-	-	-	(1) DC9-48-60-24-8C -EV SQUID	(3) PWRT-606-S DC CABLES (1) FB-L98B-235-XXX FIBER CABLE	-	-	N	N	N
A4	LTE 700/5G 850/LTE WCS	NEW	20°	CCI - DMP65R-BU6DA	112'-0"	0°	3°/3°/3°	-	-	-	-	-	-	(1) ERICSSON - 4449 B5/B12 (1) ERICSSON - RRUS-32 B30	TOWER	N	N	N
BETA SECTOR																		
B1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B2	LTE 700/LTE 1900/LTE AWS/5G AWS/5G 1900	NEW	140°	CCI TPA65R-BU6DA-K	112'-0"	0°	6°/4°/4°/4°/4°	1-1/4"	162'-0"	2	-	-	-	(1) ERICSSON - 4478 B14 (1) ERICSSON B25 - 4415 (1) ERICSSON - 4426 B66	TOWER	N	N	N
B3	5G CBAND	NEW	140°	ERICSSON AIR6449 B77D+AIR6419 B77G STACKED	112'-0"	0°	0°	-	-	-	-	-	-	-	-	N	N	N
B4	LTE 700/5G 850/LTE WCS	NEW	140°	CCI - DMP65R-BU6DA	112'-0"	0°	6°/6°/3°	-	-	-	-	-	-	(1) ERICSSON - 4449 B5/B12 (1) ERICSSON - RRUS-32 B30	TOWER	N	N	N
GAMMA SECTOR																		
C1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C2	LTE 700/LTE 1900/LTE AWS/5G AWS/5G 1900	NEW	260°	CCI TPA65R-BU6DA-K	112'-0"	0°	10°/4°/4°/4°/4°/4°	1-1/4"	162'-0"	2	-	-	-	(1) ERICSSON - 4478 B14 (1) ERICSSON B25 - 4415 (1) ERICSSON - 4426 B66	TOWER	N	N	N
C3	5G CBAND	NEW	260°	ERICSSON AIR6449 B77D+AIR6419 B77G STACKED	112'-0"	0°	0°	-	-	-	-	-	-	-	-	N	N	N
C4	LTE 700/5G 850/LTE WCS	NEW	260°	CCI - DMP65R-BU6DA	112'-0"	0°	10°/10°/3°	-	-	-	-	-	-	(1) ERICSSON - 4449 B5/B12 (1) ERICSSON - RRUS-32 B30	TOWER	N	N	N

NOTE: BOLD DENOTES NEW EQUIPMENT

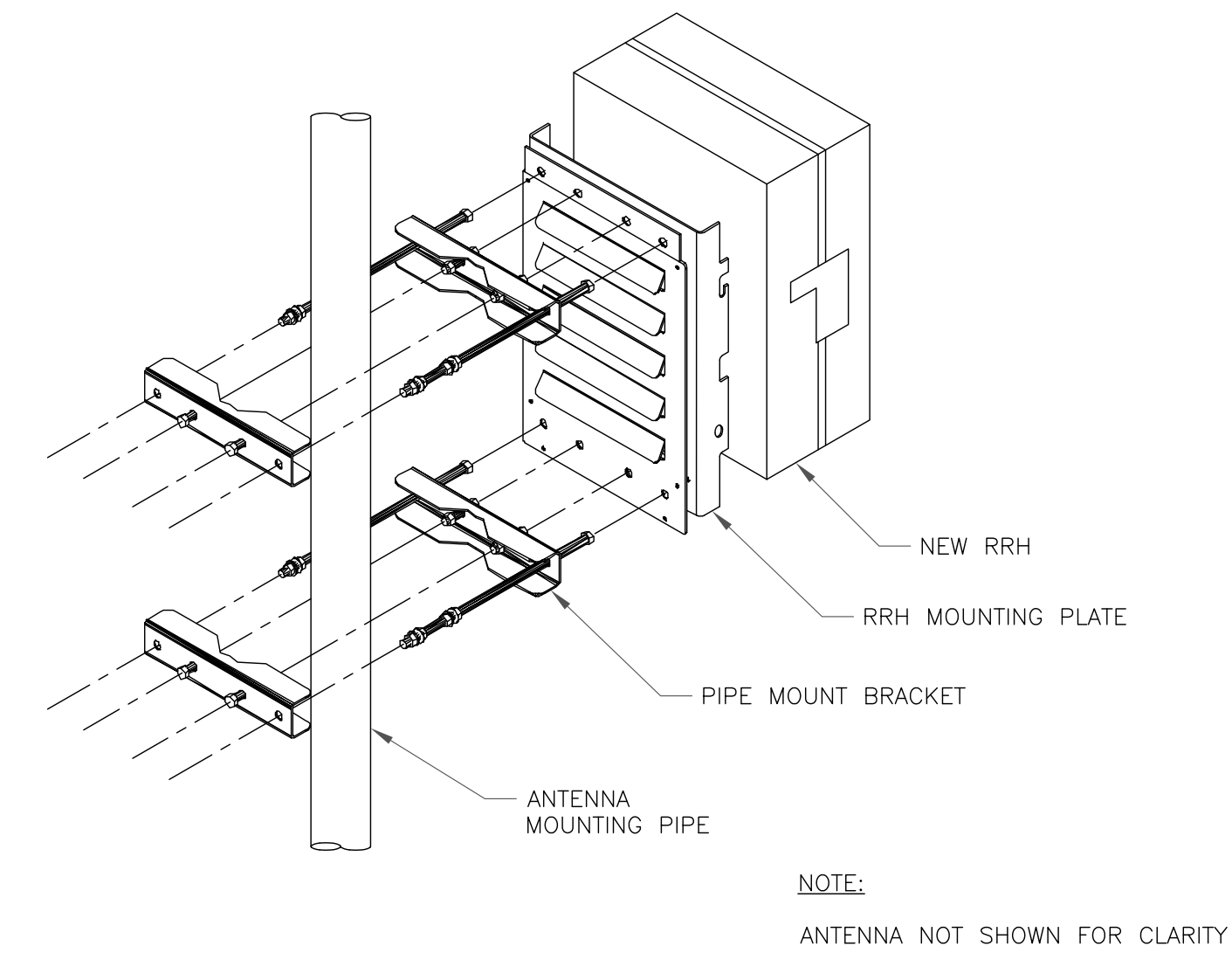
100049.004.01_876310_BEAUMONT_FARM.dwg - Sheet: C-3 - User: kevin.turkali - Feb 22, 2022 - 8:34am



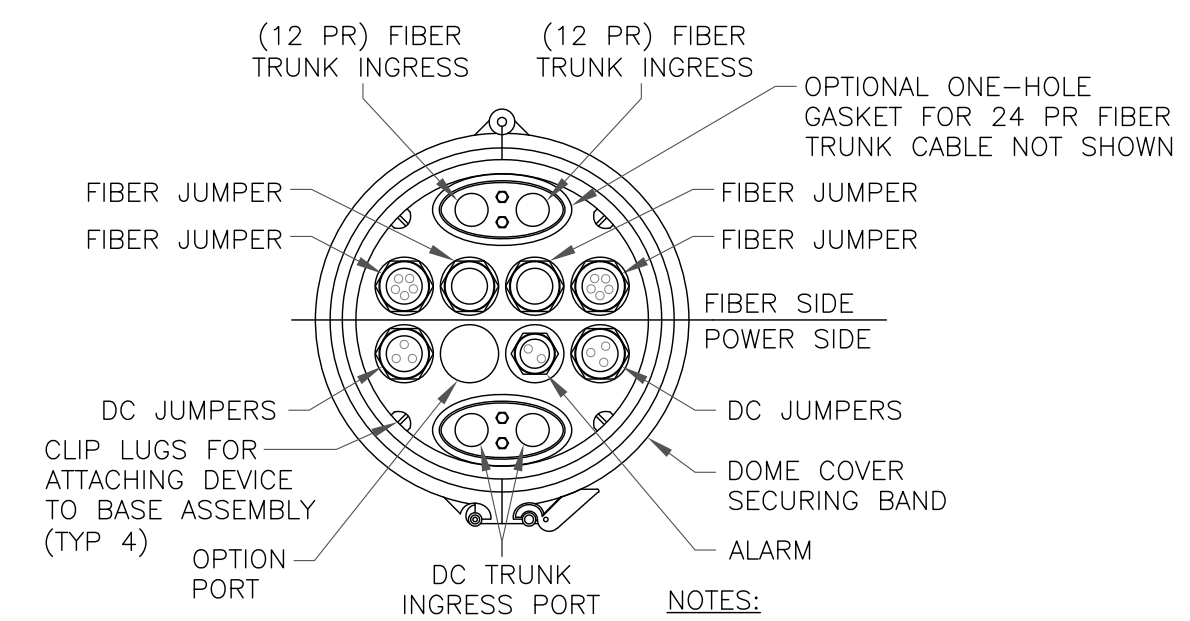
1 GENERIC ANTENNA MOUNTING ELEVATION
SCALE: NOT TO SCALE



2 ROSENBERGER - D220RRUDSM
SCALE: NOT TO SCALE



3 SINGLE RRH MOUNTING DETAIL
SCALE: NOT TO SCALE

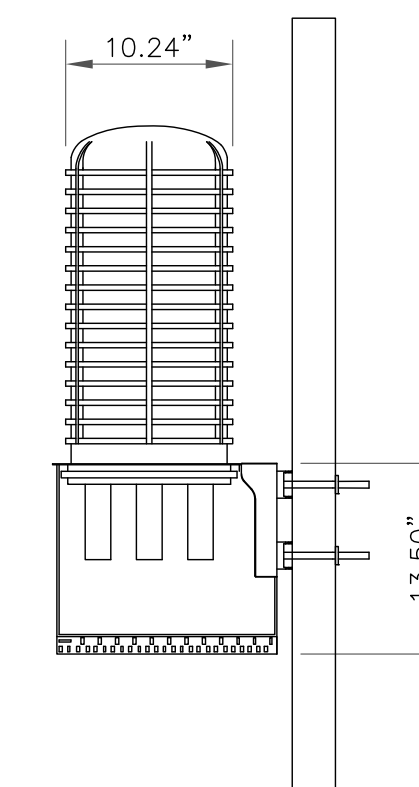
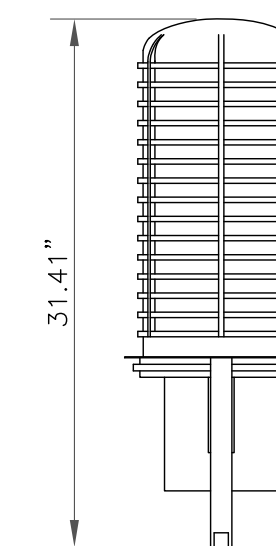
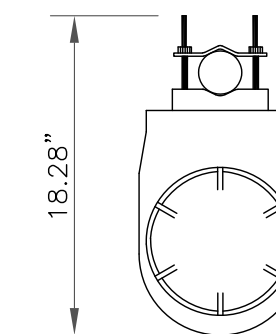


NOTES:
1. REMOVE CABLE SEALING GLAND AND INSTALL M32x1.5 METRIC-TO-1" NPT ADAPTER (COOPER CROUSE-HINES P/N CAP 740 994 OR EQUIVALENT MFR) WHEN CONNECTING CONDUIT TO OVP.

RAYCAP
DC9-48-60-24-8C-EV

RAYCAP - DC9-48-60-24-8C-EV
SIZE: 10.24x31.40 IN.
WEIGHT: 26.2 LBS
NOMINAL OPERATING VOLTAGE: 48 VDC
VOLTAGE PROTECTION RATING: 330 V
WIND LOADING: 150 MPH SUSTAINED (105.7 LBS)
WIND LOADING: 195 MPH GUST (213.6 LBS)

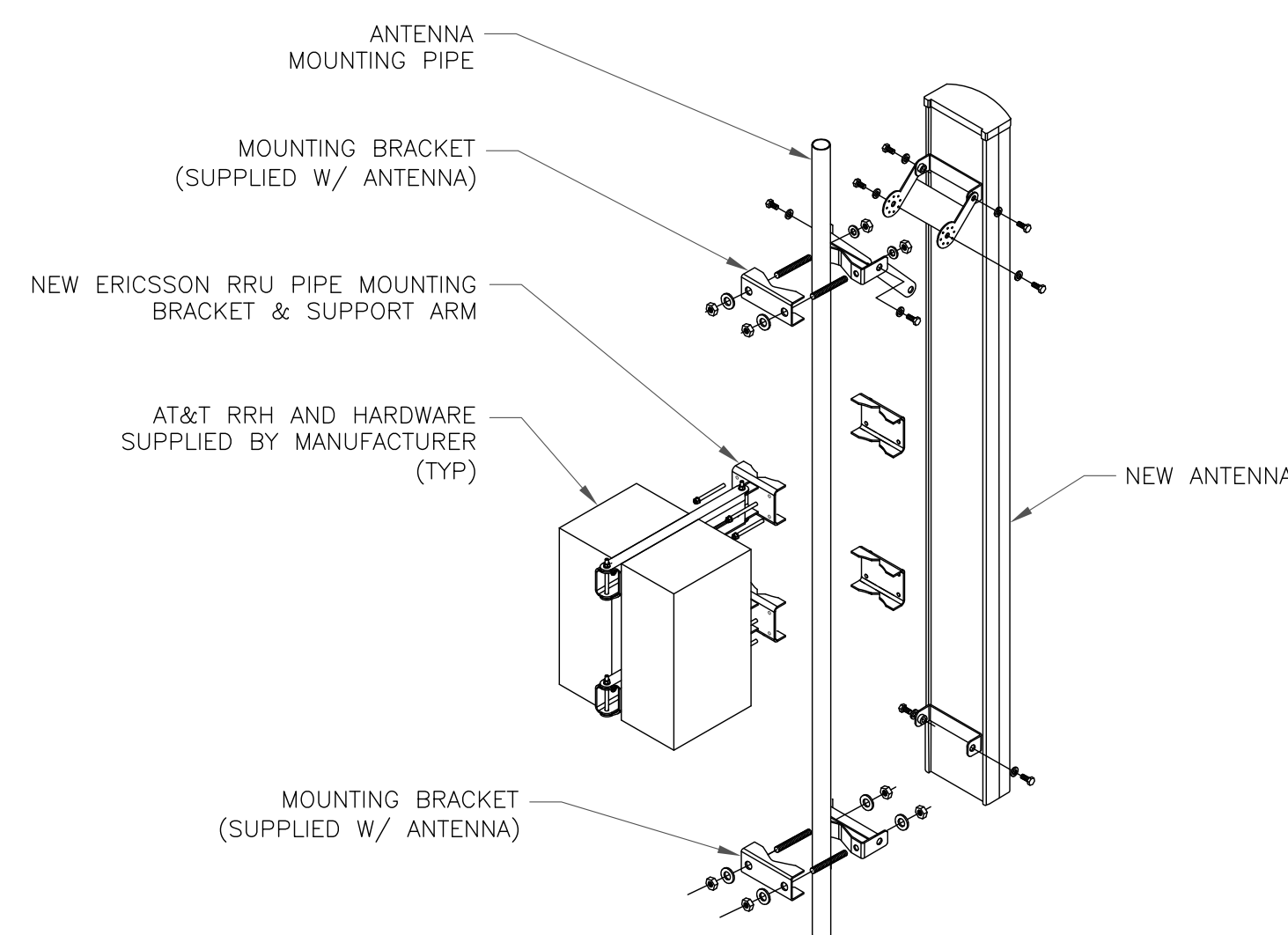
CONTRACTOR TO USE "THREAD LUBRICANT" ON MOUNTING BOLTS DURING INSTALLATION



6 SQUID MOUNTING DETAIL
SCALE: NOT TO SCALE

INSTALLER NOTES:

1. COMPLY WITH MANUFACTURERS INSTRUCTIONS TO ENSURE THAT ALL RRHS RECEIVE ELECTRICAL POWER WITHIN 24 HOURS OF BEING REMOVED FROM THE MANUFACTURER'S PACKAGING.
2. DO NOT OPEN RRH PACKAGES IN THE RAIN.
3. ALL PIPES, BRACKETS, AND MISCELLANEOUS HARDWARE TO BE GALVANIZED UNLESS NOTED OTHERWISE.



5 ANTENNA WITH DUAL RRH MOUNTING DETAIL
SCALE: NOT TO SCALE

4 NOT USED
SCALE: NOT TO SCALE

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AT&T SITE NUMBER:
CTL02154

BU #: 876310
BEAUMONT FARM

945 EAST CENTER ST.
WALLINGFORD, CT
06492

EXISTING
148'-0" MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
A	1/17/22	GAC	PRELIMINARY REVIEW	CMV
B	1/24/22	GAC	PRELIMINARY REVIEW	CMV
0	2/22/22	GAC	CONSTRUCTION	KT

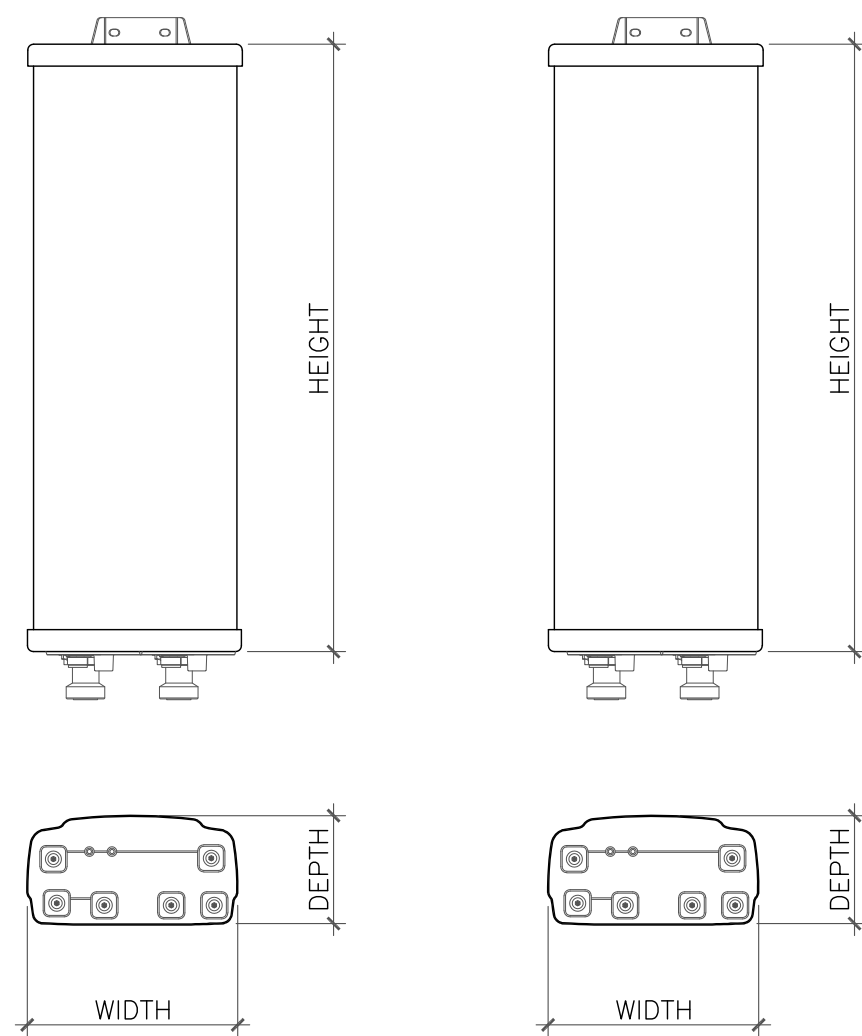


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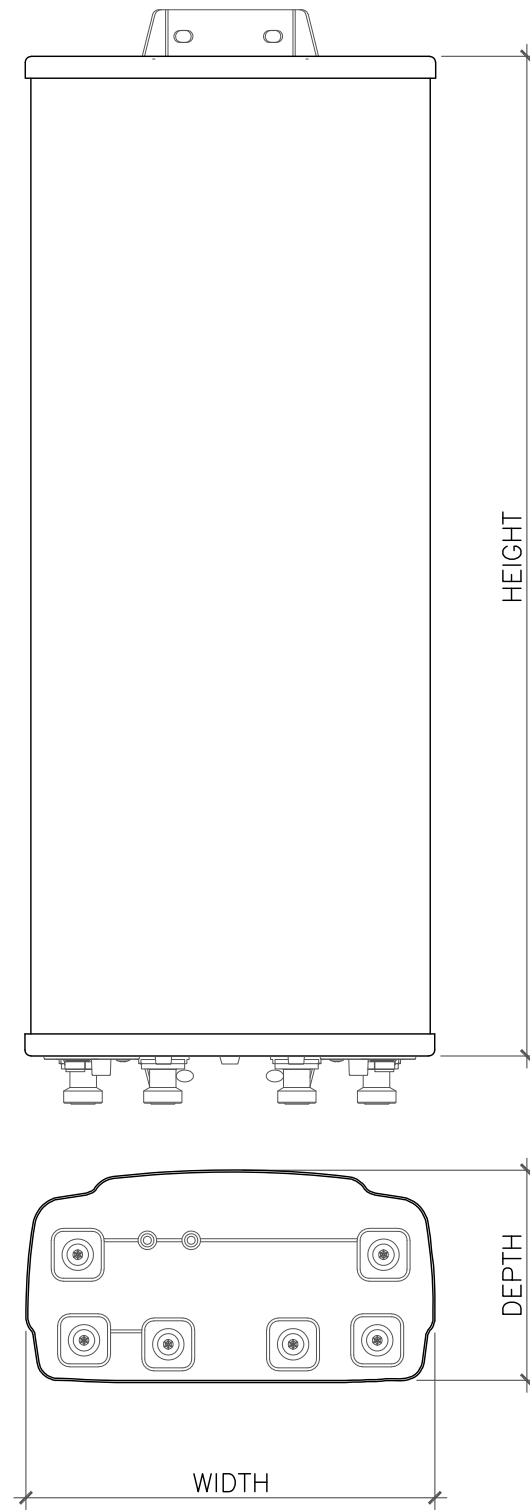
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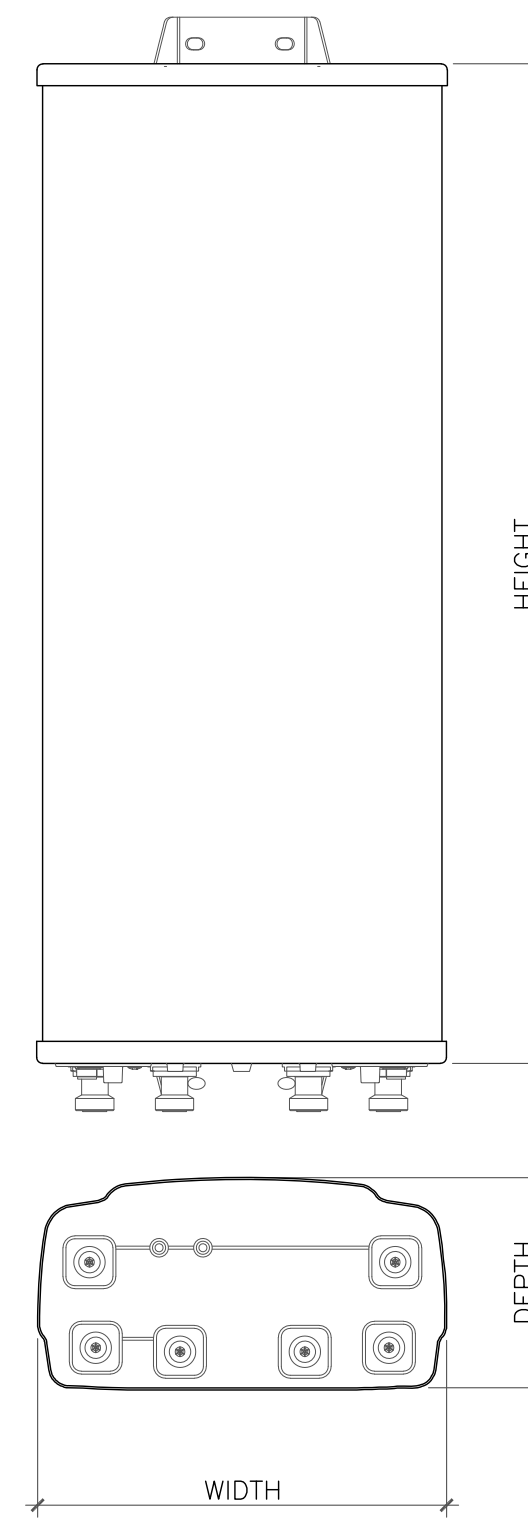
ANTENNA DIMENSIONS (INCHES)				
MODEL	HEIGHT	WIDTH	DEPTH	WEIGHT
AIR6449 B77D	30.39"	15.87"	8.07"	81.60 lbs
AIR6419 B77G	28.30"	16.10"	7.90"	66.10 lbs

1 ANTENNA DETAIL
SCALE: NOT TO SCALE



ANTENNA DIMENSIONS (INCHES)				
MODEL	HEIGHT	WIDTH	DEPTH	WEIGHT
TPA-65R-BU8DA-K	71.20"	20.70"	7.7"	69.00 lbs

2 ANTENNA DETAIL
SCALE: NOT TO SCALE



ANTENNA DIMENSIONS (INCHES)				
MODEL	HEIGHT	WIDTH	DEPTH	WEIGHT
DMP65R-BU8DA	71.20"	20.70"	7.7"	89.3 lbs

3 ANTENNA DETAIL
SCALE: NOT TO SCALE

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AT&T SITE NUMBER:
CTL02154

BU #: **876310**
BEAUMONT FARM

945 EAST CENTER ST.
WALLINGFORD, CT
06492

EXISTING
148'-0" MONOPOLE

ISSUED FOR:

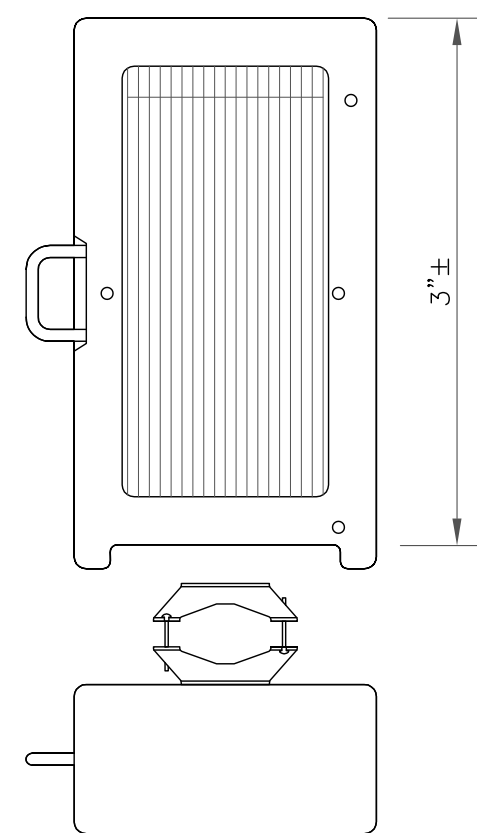
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B	1/24/22	GAC	PRELIMINARY REVIEW	CMV
0	2/22/22	GAC	CONSTRUCTION	KT



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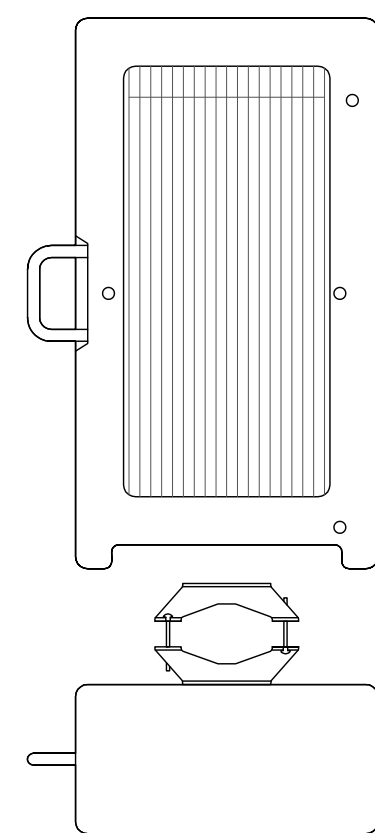
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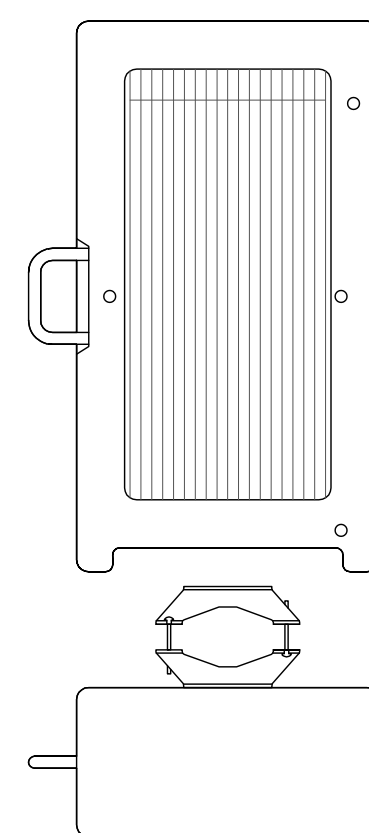
ERICSSON - 4415 B25
WEIGHT (FULLY EQUIPPED): 46.00 LBS
SIZE (HxWxD): 16.50x13.40x5.90 IN.
CONNECTOR TYPE: 4.3-10 FEMALE (4 TOTAL PORTS)

4 ERICSSON - 4415 B25
SCALE: NOT TO SCALE



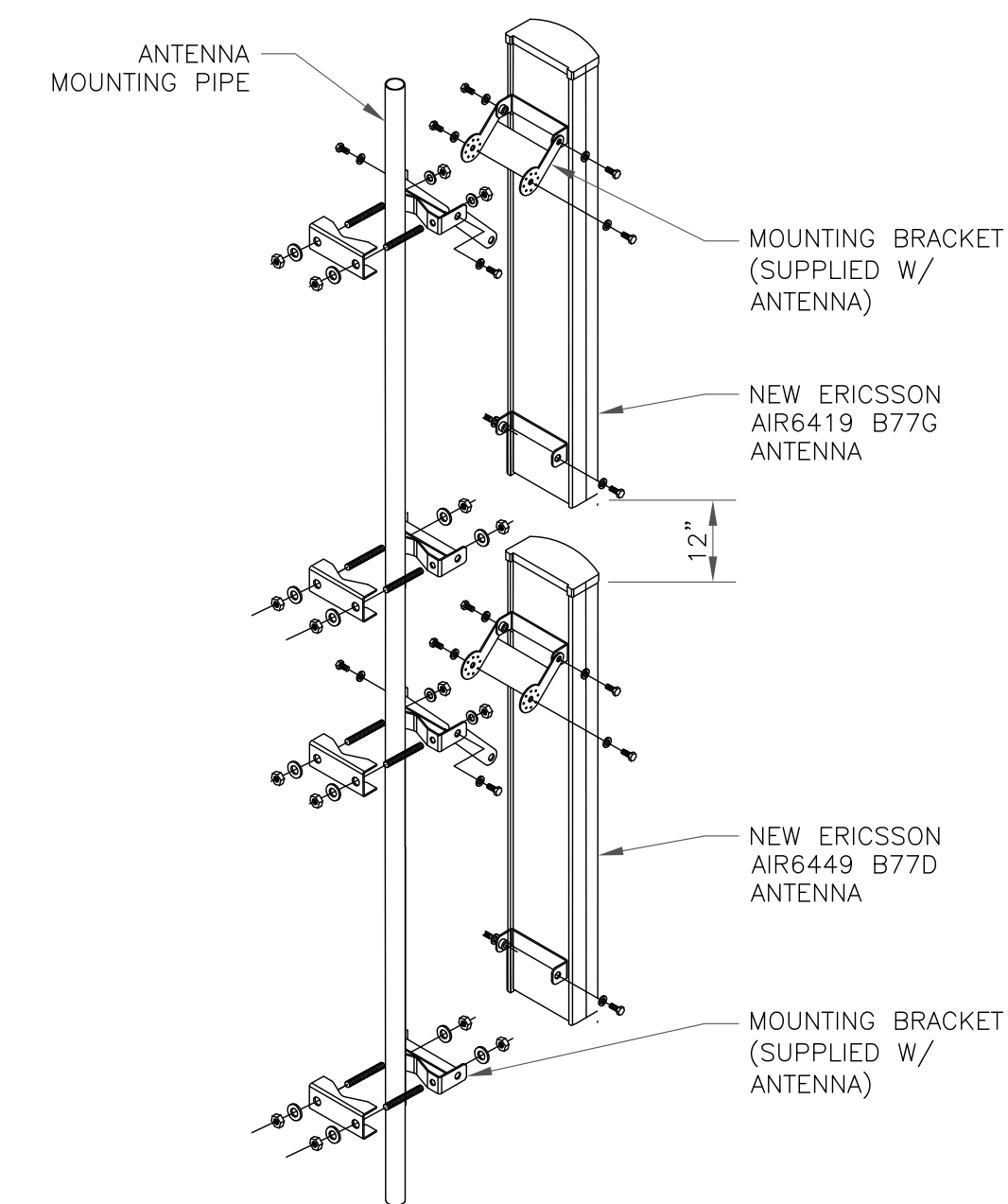
ERICSSON - 4449 B5/B12
WEIGHT (FULLY EQUIPPED): 71.0 LBS
SIZE (HxWxD): 17.90x13.19x9.44 IN.
CONNECTOR TYPE: 4.3-10 FEMALE (4 TOTAL PORTS)

5 ERICSSON - 4449 B5/B12
SCALE: NOT TO SCALE

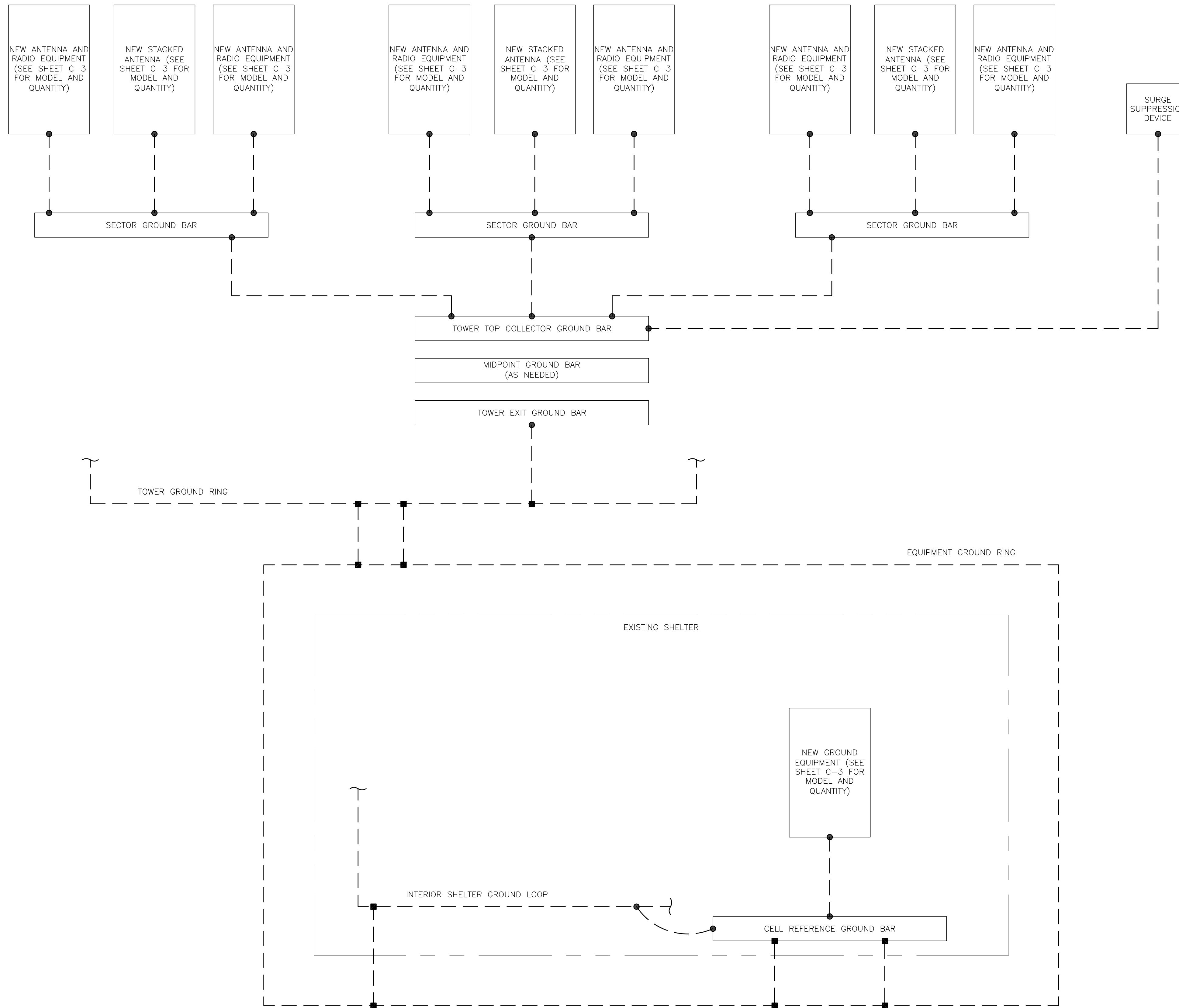


ERICSSON - 4478 B14
WEIGHT (FULLY EQUIPPED): 59.40 LBS
SIZE (HxWxD): 18.10x13.40x8.26 IN.
CONNECTOR TYPE: 4.3-10 FEMALE (4 TOTAL PORTS)

6 ERICSSON - 4478 B14
SCALE: NOT TO SCALE



7 ANTENNA MOUNTING DETAIL
SCALE: NOT TO SCALE



GROUNDING PLAN LEGEND:

---	GROUND WIRE	⊙	COPPER GROUND ROD
■	EXOTHERMIC WELD	⊗	GROUND ROD W/ TEST WELL
●	MECHANICAL CONNECTION		

CELL REFERENCE GROUND BAR: POINT OF GROUND REFERENCE FOR ALL COMMUNICATIONS EQUIPMENT FRAMES. ALL BONDS ARE MADE WITH #2 STRANDED GREEN INSULATED COPPER CONDUCTORS. BOND TO GROUND RING WITH (2) #2 SOLID TINNED COPPER CONDUITS (ATT-TP-76416 7.6.7).

HATCH PLATE GROUND BAR: BOND TO THE INTERIOR GROUND RING WITH (2) #2 STRANDED GREEN INSULATED COPPER CONDUCTORS. WHEN A HATCH-PLATE AND A CELL REFERENCE GROUND BAR ARE BOTH PRESENT, THE CELL SITE REFERENCE GROUND BAR MUST BE CONNECTED TO THE HATCH-PLATE AND TO THE INTERIOR GROUND RING USING (2) #2 STRANDED GREEN INSULATED COPPER CONDUCTORS.

EXTERIOR CABLE ENTRY PORT GROUND BARS: LOCATED AT THE ENTRANCE TO THE CELL SITE BUILDING. BOND TO GROUND RING WITH A #2 SOLID TINNED COPPER CONDUCTORS WITH AN EXOTHERMIC WELD AND INSPECTION SLEEVE (ATT-TP-76416 7.6.7.2).

DURING ALL DC POWER SYSTEM CHANGES INCLUDING DC SYSTEM CHANGE OUTS, RECTIFIER REPLACEMENTS OR ADDITIONS, BREAKER DISTRIBUTION CHANGES, BATTERY ADDITIONS, BATTERY REPLACEMENTS AND INSTALLATIONS OR CHANGES TO DC CONVERTER SYSTEMS IT SHALL BE REQUIRED THAT SERVICES CONTRACTORS VERIFY ALL DC POWER SYSTEMS ARE EQUIPPED WITH MASTER DC SYSTEM RETURN GROUND CONDUCTOR FROM THE DC POWER SYSTEM COMMON RETURN BUS DIRECTLY CONNECTED TO THE CELL SITE REFERENCE GROUND BAR PER TP76300 SECTION H 6 AND TP76416 FIGURE 7-11 REQUIREMENTS.

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EXISTING
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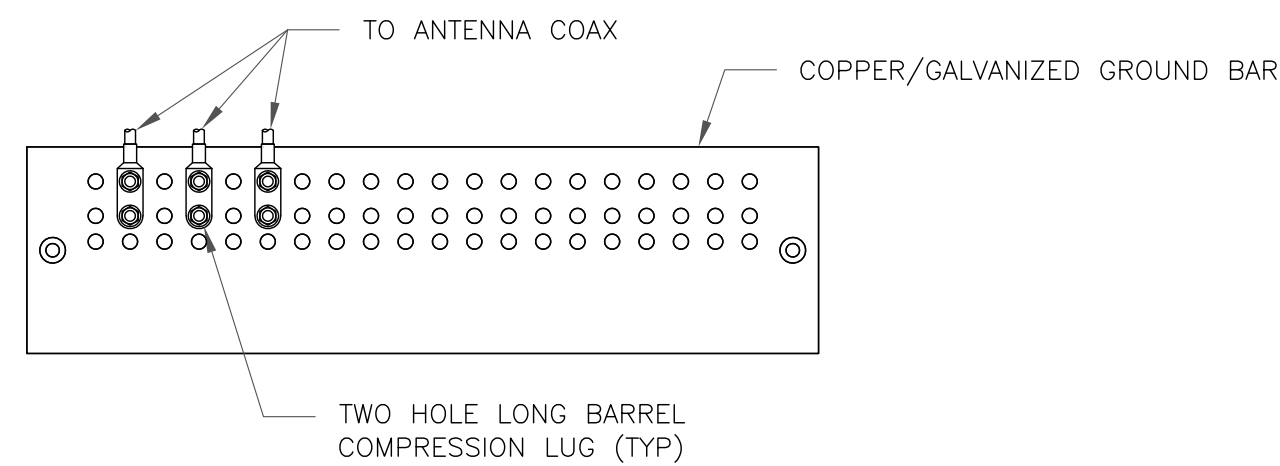
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1 GROUNDING SCHEMATIC
SCALE: NOT TO SCALE

SHEET NUMBER: **G-1** **REVISION:** **0**

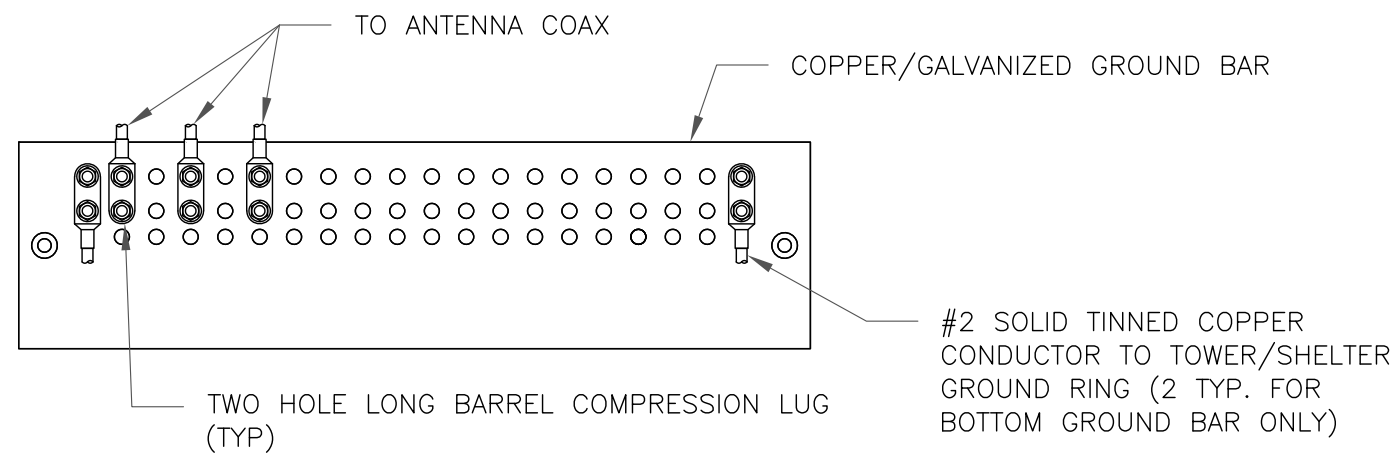
100049.004.01_876310_BEAUMONT_FARM.dwg - Sheet:G-1 - User: kevin.turkoll - Feb 22, 2022 - 8:35am



NOTES:

1. DOUBLING UP "OR STACKING" OF CONNECTIONS IS NOT PERMITTED.
2. EXTERIOR ANTIOXIDANT JOINT COMPOUND TO BE USED ON ALL EXTERIOR CONNECTIONS.
3. GROUND BAR SHALL NOT BE ISOLATED FROM TOWER. MOUNT DIRECTLY TO ANTENNA MOUNT STEEL.

1 ANTENNA SECTOR GROUND BAR DETAIL
SCALE: NOT TO SCALE

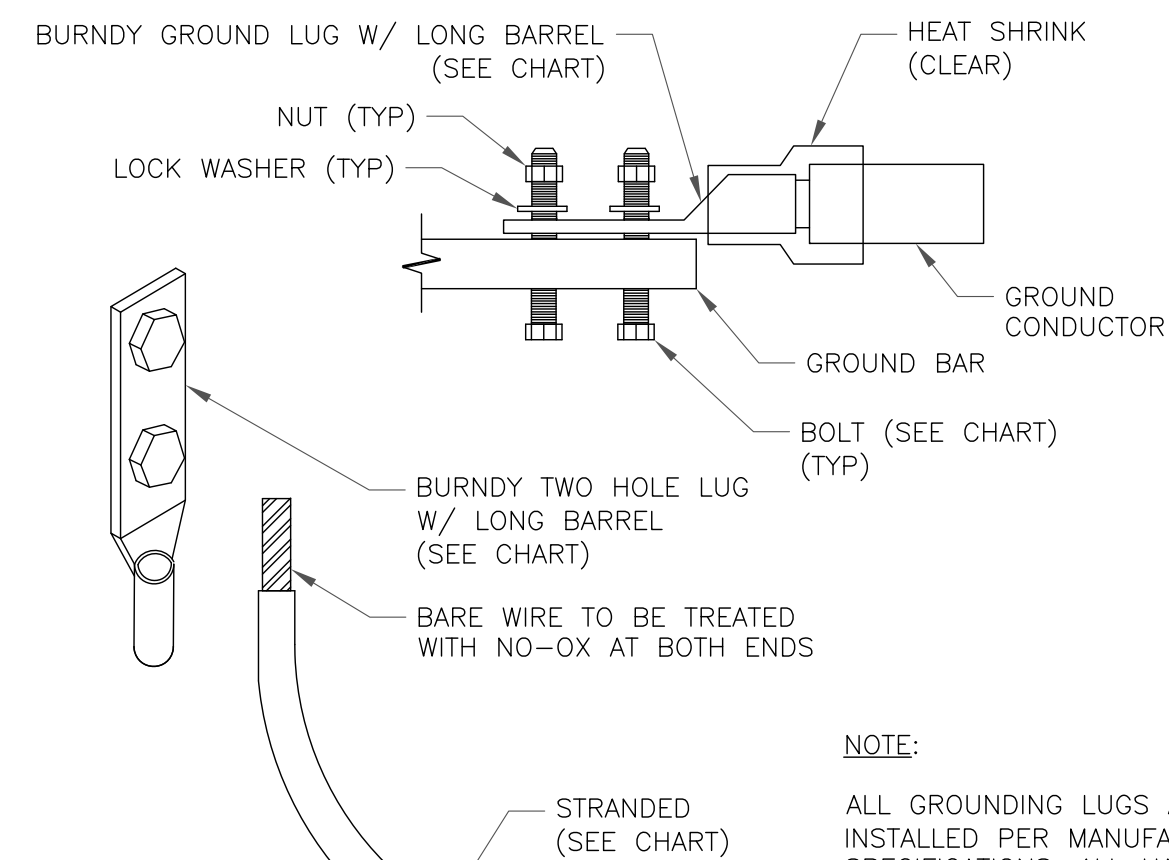


NOTES:

1. EXTERIOR ANTIOXIDANT JOINT COMPOUND TO BE USED ON ALL EXTERIOR CONNECTIONS.
2. GROUND BAR SHALL NOT BE ISOLATED FROM TOWER. MOUNT DIRECTLY TO TOWER STEEL (TOWER ONLY).
3. GROUND BAR SHALL BE ISOLATED FROM BUILDING OR SHELTER.

2 TOWER/SHELTER GROUND BAR DETAIL
SCALE: NOT TO SCALE

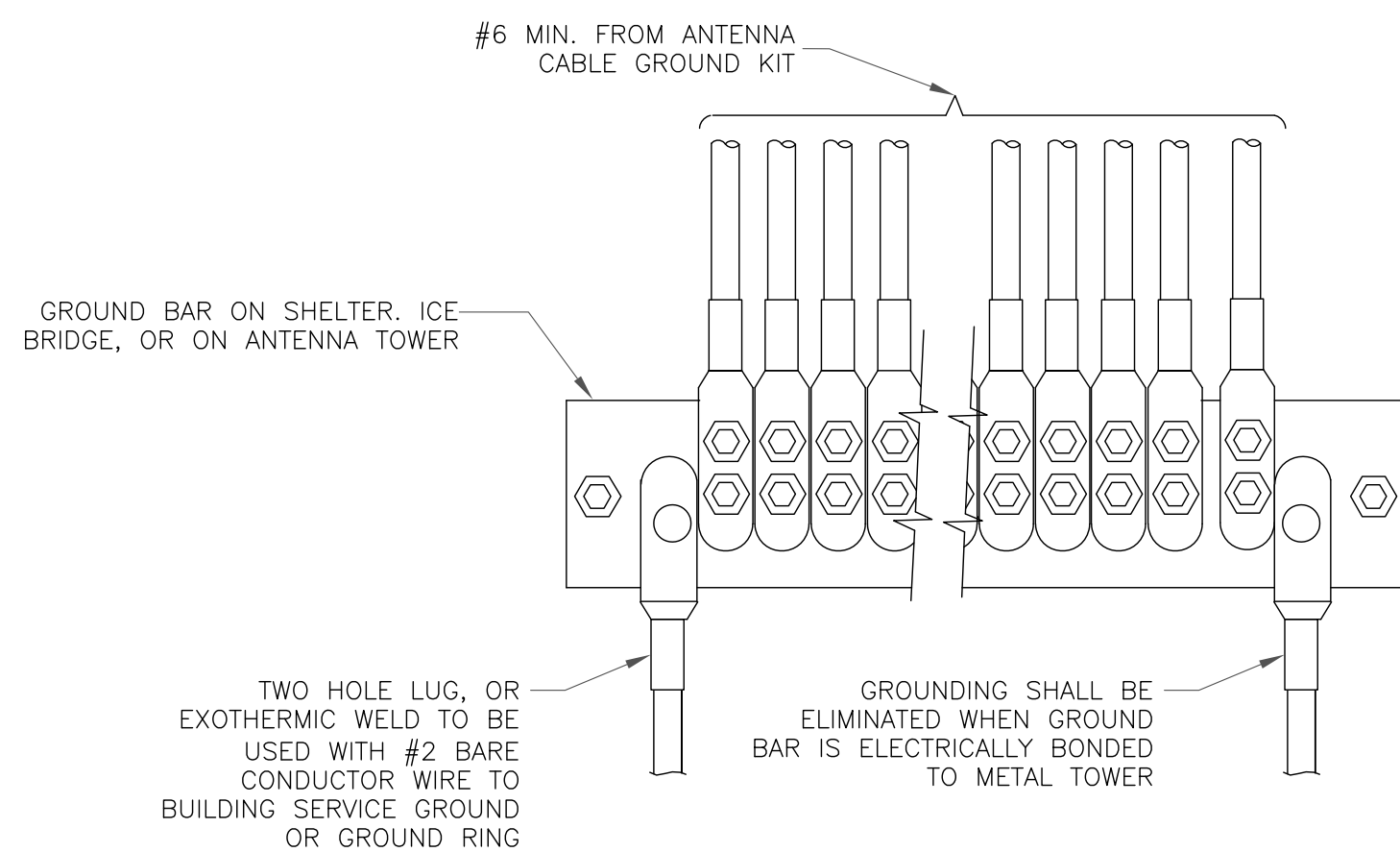
WIRE SIZE	BURNDY LUG	BOLT SIZE
#6 GREEN INSULATED	YA6C-2TC38	3/8" - 16 NC SS 2 BOLT
#2 SOLID TINNED	YA3C-2TC38	3/8" - 16 NC SS 2 BOLT
#2 STRANDED	YA2C-2TC38	3/8" - 16 NC SS 2 BOLT
#2/0 STRANDED	YA26-2TC38	3/8" - 16 NC SS 2 BOLT
#4/0 STRANDED	YA28-2N	1/2" - 16 NC SS 2 BOLT



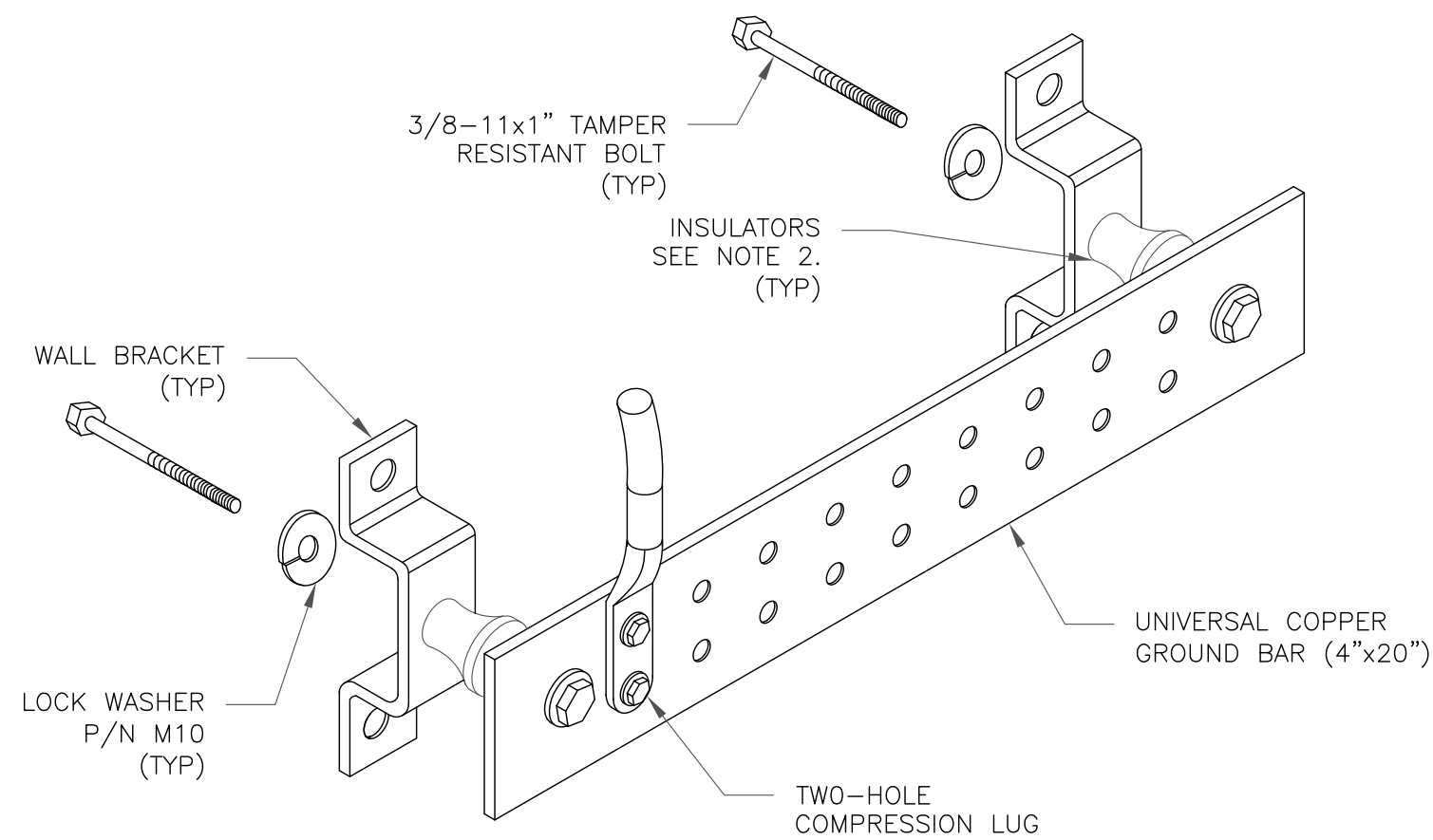
NOTE:

ALL GROUNDING LUGS ARE TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS. ALL HARDWARE BOLTS, NUTS, LOCK WASHERS SHALL BE STAINLESS STEEL. ALL HARDWARE ARE TO BE AS FOLLOWS: BOLT, FLAT WASHER, GROUND BAR, GROUND LUG, FLAT WASHER AND NUT.

3 MECHANICAL LUG CONNECTION
SCALE: NOT TO SCALE



4 GROUNDWIRE INSTALLATION
SCALE: NOT TO SCALE

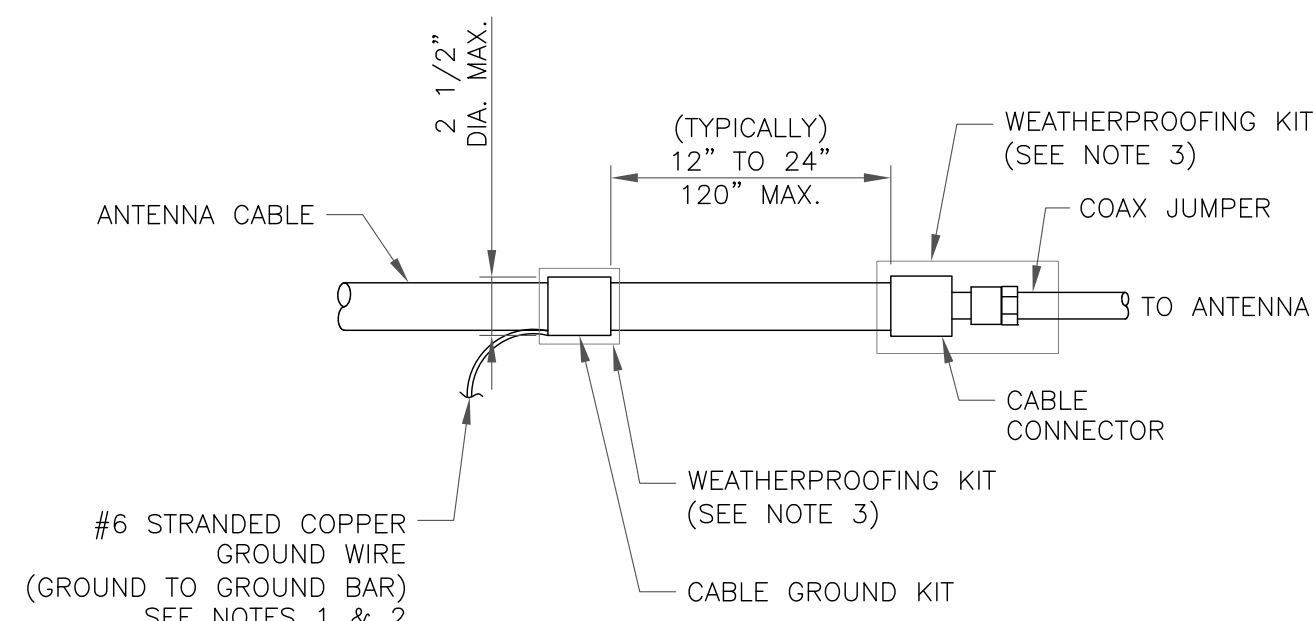


NOTES:

1. DOWN LEAD (HOME RUN) CONDUCTORS ARE NOT TO BE INSTALLED ON CROWN CASTLE USA INC. TOWER, PER THE GROUNDING DOWN CONDUCTOR POLICY QAS-STD-10091. NO MODIFICATION OR DRILLING TO TOWER STEEL IS ALLOWED IN ANY FORM OR FASHION, CAD-WELDING ON THE TOWER AND/OR IN THE AIR ARE NOT PERMITTED.
2. OMIT INSULATOR WHEN MOUNTING TO TOWER STEEL OR PLATFORM STEEL. USE INSULATORS WHEN ATTACHING TO BUILDING OR SHELTERS.

5 GROUND BAR DETAIL
SCALE: NOT TO SCALE

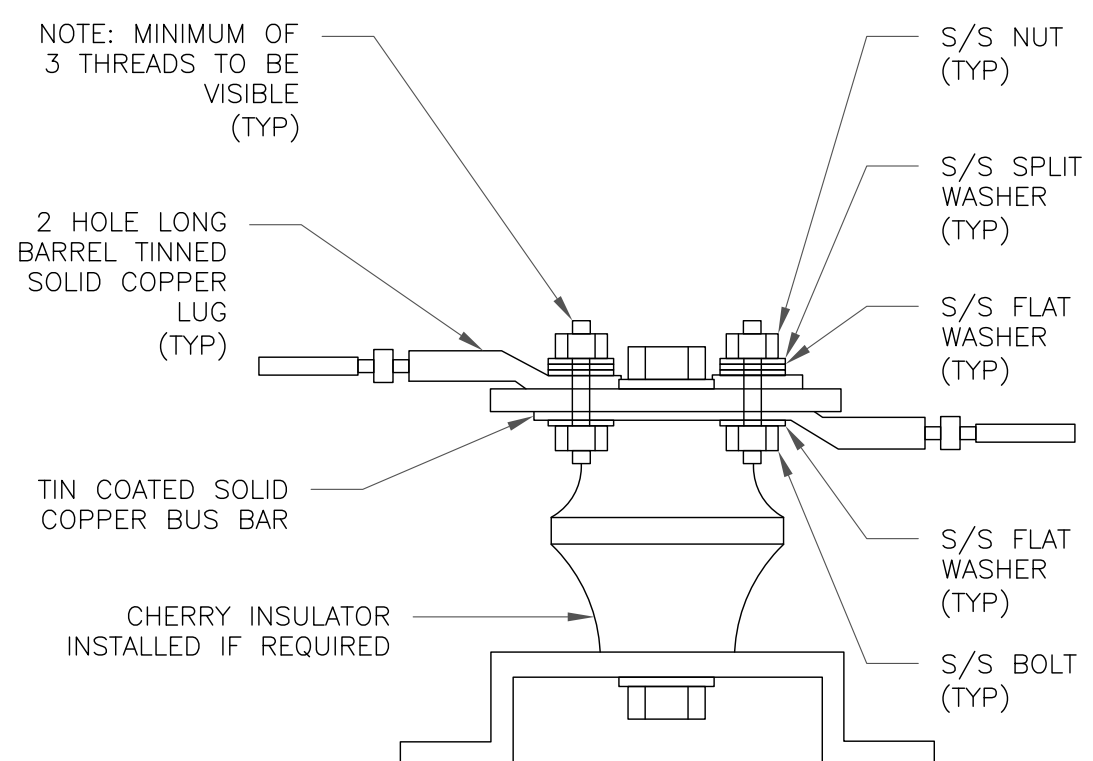
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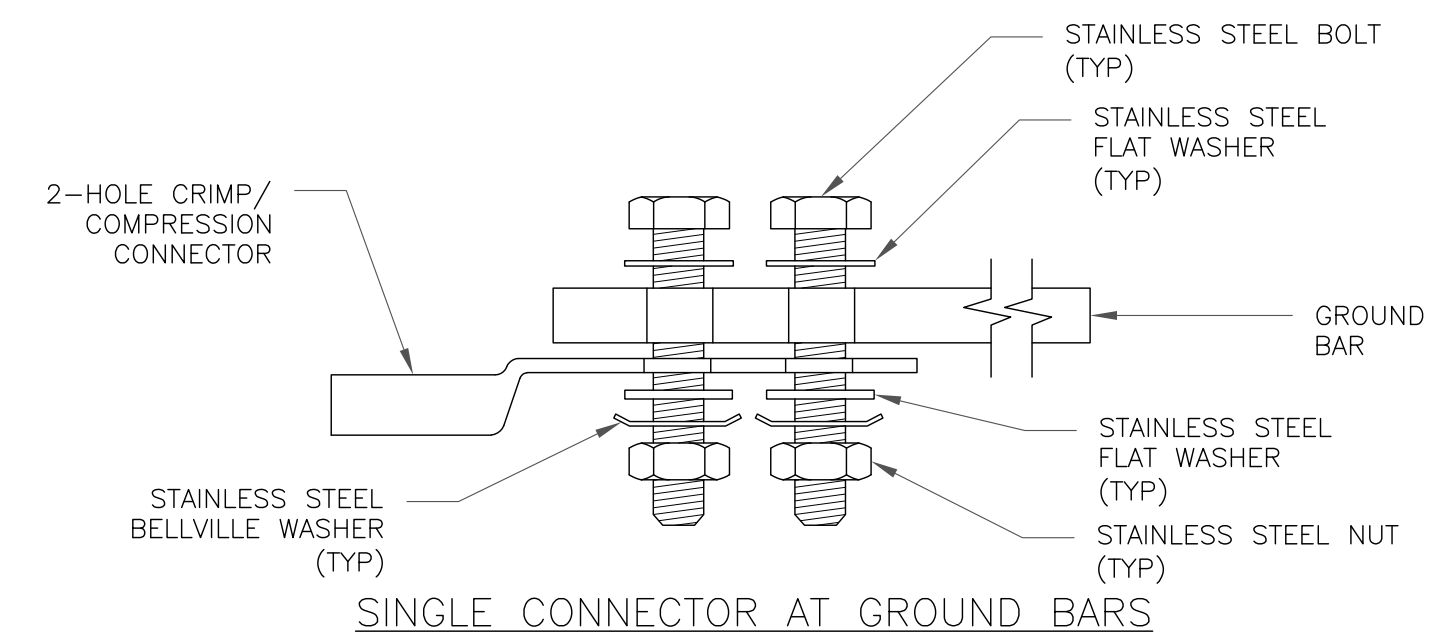
NOTES:

1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
2. GROUNDING KIT SHALL BE TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER.
3. WEATHER PROOFING SHALL BE TWO-PART TAPE KIT, COLD SHRINK SHALL NOT BE USED.

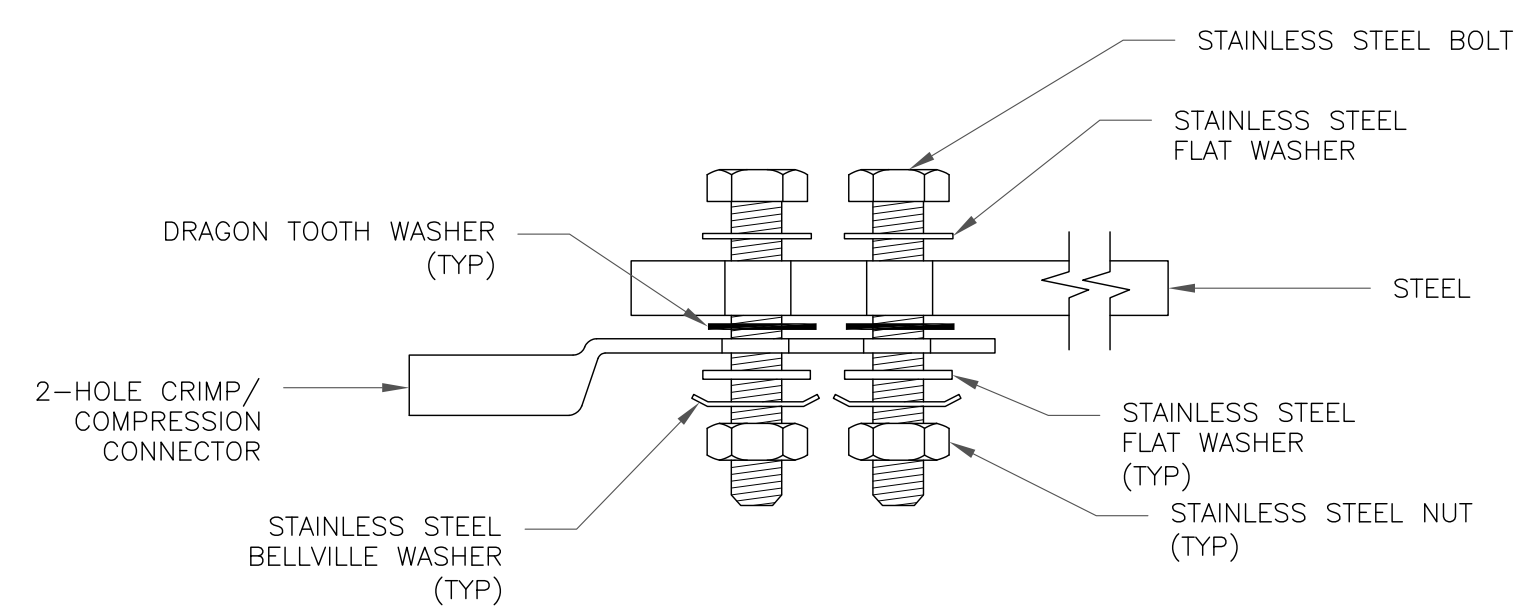
6 CABLE GROUND KIT CONNECTION
SCALE: NOT TO SCALE



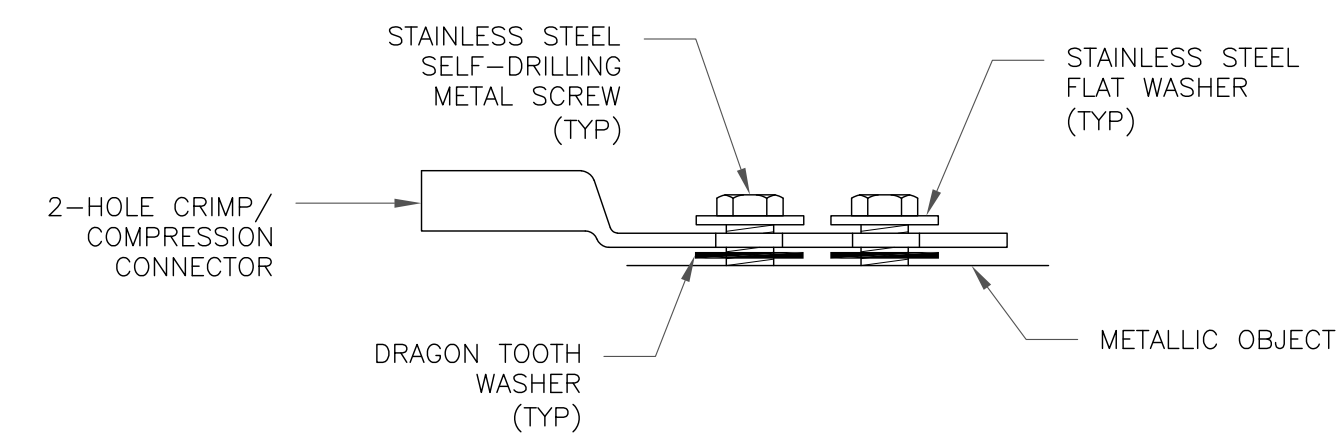
7 LUG DETAIL
SCALE: NOT TO SCALE



SINGLE CONNECTOR AT GROUND BARS



SINGLE CONNECTOR AT STEEL OBJECTS



SINGLE CONNECTOR AT METALLIC/STEEL OBJECTS

8 HARDWARE DETAIL FOR EXTERIOR CONNECTIONS
SCALE: NOT TO SCALE

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2/22/22

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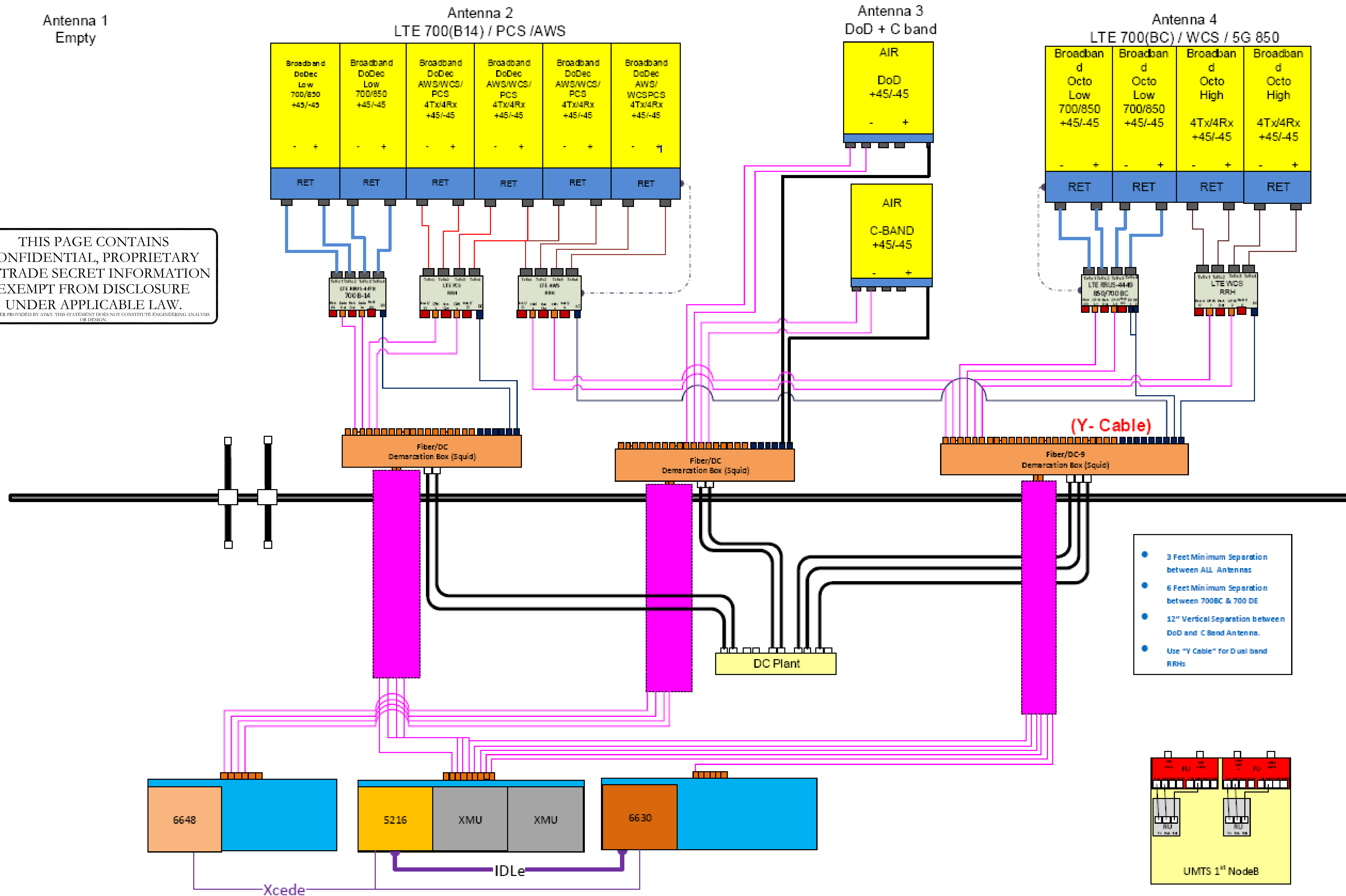
Antenna 1
Empty

Antenna 2
LTE 700(B14) / PCS / AWS

Antenna 3
DoD + C band

Antenna 4
LTE 700(BC) / WCS / 5G 850

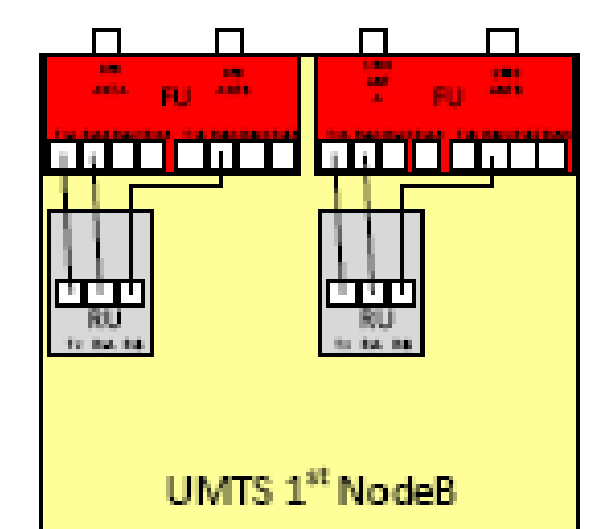
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Xcede

IDLe

- 3 Feet Minimum Separation between ALL Antennas
- 6 Feet Minimum Separation between 700BC & 700 DE
- 12" Vertical Separation between DoD and C Band Antennas.
- Use "Y-Cable" for Dual band RRHs



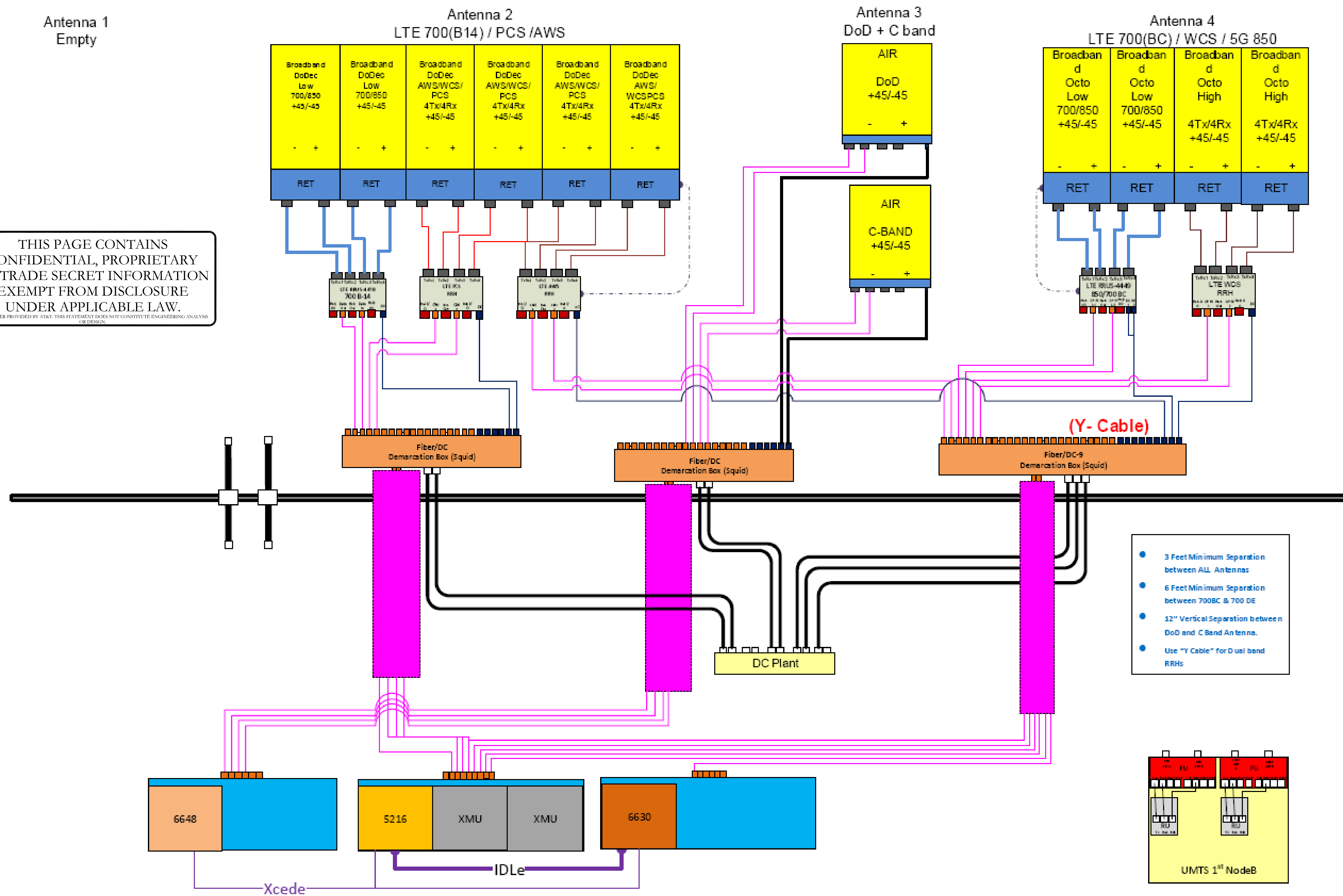
Antenna 1
Empty

Antenna 2
LTE 700(B14) / PCS / AWS

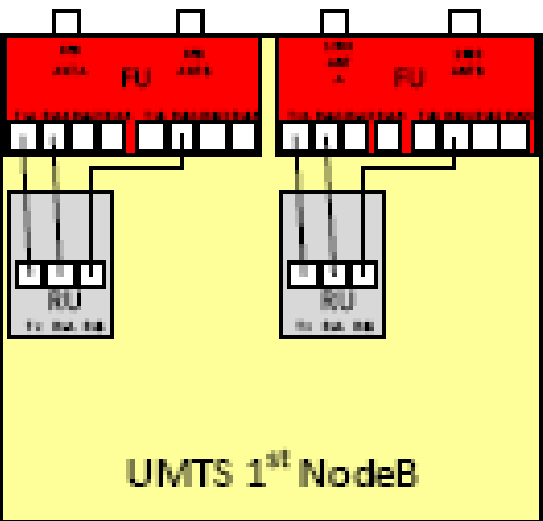
Antenna 3
DoD + C band

Antenna 4
LTE 700(BC) / WCS / 5G 850

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- 3 Feet Minimum Separation between ALL Antennas
- 6 Feet Minimum Separation between 700BC & 700 DE
- 12" Vertical Separation between DoD and C Band Antenna.
- Use "Y-Cable" for Dual band RRHs



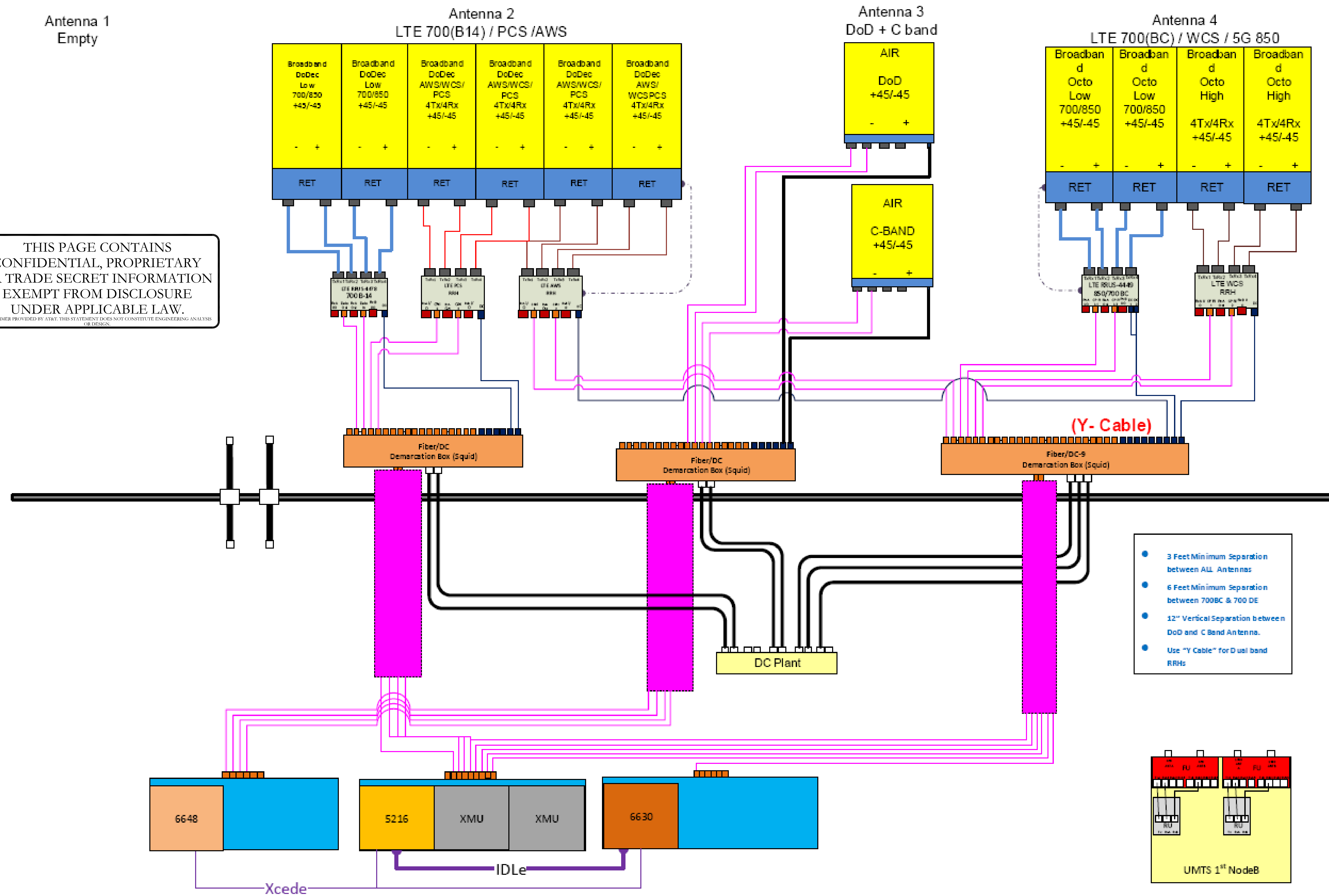
Antenna 1
Empty

Antenna 2
LTE 700(B14) / PCS / AWS

Antenna 3
DoD + C band

Antenna 4
LTE 700(BC) / WCS / 5G 850

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- 3 Feet Minimum Separation between ALL Antennas
- 6 Feet Minimum Separation between 700BC & 700 DE
- 12" Vertical Separation between DoD and C Band Antenna.
- Use "Y-Cable" for Dual band RRHs

