Robinson+Cole

KENNETH C. BALDWIN

280 Trumbull Street
Hartford, CT 06103-3597
Main (860) 275-8200
Fax (860) 275-8299
kbaldwin@rc.com
Direct (860) 275-8345

Also admitted in Massachusetts

February 27, 2018

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

Re: **Notice of Exempt Modification – Facility Modification**
723 Leetes Island Road, Branford, Connecticut

Dear Ms. Bachman:

Cellco Partnership d/b/a Verizon Wireless ("Cellco") currently maintains fifteen (15) wireless telecommunications antennas at the 90-foot level of the existing 109-foot faux water tank tower at 723 Leetes Island Road in Branford, Connecticut (the "Property"). The facility is owned by Cellco. The Council approved the Leetes Island Road facility in 2011 (Docket No. 413). Cellco now intends to remove nine (9) of its existing antennas and install six (6) new antennas (three (3) model JAHH-65B-R3B, 700 MHz antennas and three (3) model JAHH-65B-R3B, 2100 MHz antennas), at the 90-foot level on the tower. Cellco also intends to install three (3) remote radio heads ("RRHs") behind its antennas and two (2) HYBRIFLEX™ fiber optic antenna cables. Included in Attachment 1 are specifications for Cellco's replacement antennas, RRHs and HYBRIFLEX™ cables.

Please accept this letter as notification pursuant to R.C.S.A. § 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 Branford First Selectman, James B. Cosgrove; Harry Smith, Branford's Town Planner; and John Medlyn, the owner of the Property.

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

1. The proposed modifications will not result in an increase in the height of the existing tower. Cellco's replacement antennas and RRHs will be installed at the same 90-foot level of the 109-foot faux water tank.

2. The proposed modifications will not involve any change to ground-mounted equipment and, therefore, will not require the extension of the site boundary.

3. The proposed modifications will not increase noise levels at the facility by six decibels or more, or to levels that exceed state and local criteria.

4. The operation of the replacement antennas will not increase radio frequency (RF) emissions at the facility to a level at or above the Federal Communications Commission (FCC) safety standard. A cumulative General Power Density table for Cellco's modified facility is included behind Attachment 2.

5. The proposed modifications will not cause a change or alteration in the physical or environmental characteristics of the site.

6. The faux water tank structure can support Cellco's proposed modifications. (*See* Structural Analysis Report included in Attachment 3).

A copy of the parcel map and owner information for the Property is included in Attachment 4. A Certificate of Mailing verifying that this filing was sent to municipal officials and the owner of the Property is included in Attachment 5.

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

Sincerely,

Kenneth C. Baldwin

Enclosures
Copy to:
James B. Cosgrove, Branford First Selectman
Harry Smith, Branford Town Planner
John Medlyn
Tim Parks

ATTACHMENT 1

Product Specifications

COMMSCOPE®

JAHH-65B-R3B

8-port sector antenna, 2x 698–787, 2x 824-894 and 4x 1695–2360 MHz, 65° HPBW, 3x RET and low bands have diplexers. Internal SBT's on first LB(Port 1) and first HB (Port 5).

- Internal SBT on low and high band allow remote RET control from the radio over the RF jumper cable
- One RET for 700MHz, one RET for 850MHz, and one RET for both high bands to ensure same tilt level for 4x Rx or 4x MIMO
- Internal filter on low band and interleaved dipole technology providing for attractive, low wind load mechanical package
- Separate RS-485 RET input/output for low and high band

Electrical Specifications

Frequency Band, MHz	698–787	824–894	1695–1880	1850–1990	1920–2200	2300–2360
Gain, dBi	14.5	15.8	18.0	18.4	18.5	18.8
Beamwidth, Horizontal, degrees	67	65	63	63	65	68
Beamwidth, Vertical, degrees	12.4	10.5	5.7	5.2	4.9	4.4
Beam Tilt, degrees	2–14	2–14	0–10	0–10	0–10	0–10
USLS (First Lobe), dB	18	18	20	20	21	23
Front-to-Back Ratio at 180°, dB	32	34	31	35	36	38
Isolation, dB	25	25	25	25	25	25
Isolation, Intersystem, dB	30	30	30	30	30	30
VSWR | Return Loss, dB	1.5 | 14.0	1.5 | 14.0	1.5 | 14.0	1.5 | 14.0	1.5 | 14.0	1.5 | 14.0
PIM, 3rd Order, 2 x 20 W, dBc	-153	-153	-153	-153	-153	-153
Input Power per Port, maximum, watts	350	350	350	350	350	300
Polarization	±45°	±45°	±45°	±45°	±45°	±45°
Impedance	50 ohm	50 ohm	50 ohm	50 ohm	50 ohm	50 ohm

Electrical Specifications, BASTA*

Frequency Band, MHz	698–787	824–894	1695–1880	1850–1990	1920–2200	2300–2360
Gain by all Beam Tilts, average, dBi	14.3	14.9	17.6	18.1	18.2	18.5
Gain by all Beam Tilts Tolerance, dB	±0.3	±0.5	±0.6	±0.4	±0.5	±0.6
Gain by Beam Tilt, average, dBi	2 ° | 14.3	2 ° | 15.0	0 ° | 17.2	0 ° | 17.6	0 ° | 17.7	0 ° | 17.9
	8 ° | 14.3	8 ° | 14.9	5 ° | 17.6	5 ° | 18.2	5 ° | 18.3	5 ° | 18.7
	14 ° | 14.3	14 ° | 15.4	10 ° | 17.6	10 ° | 18.2	10 ° | 18.3	10 ° | 18.7
Beamwidth, Horizontal Tolerance, degrees	±1.2	±1.4	±4	±2.4	±2.9	±2.7
Beamwidth, Vertical Tolerance, degrees	±0.9	±0.5	±0.3	±0.2	±0.3	±0.1
USLS, beampeak to 20° above beampeak, dB	18	17	17	18	19	18
Front-to-Back Total Power at 180° ± 30°, dB	25	24	26	29	27	29
CPR at Boresight, dB	22	23	20	21	21	24
CPR at Sector, dB	11	12	11	11	11	8

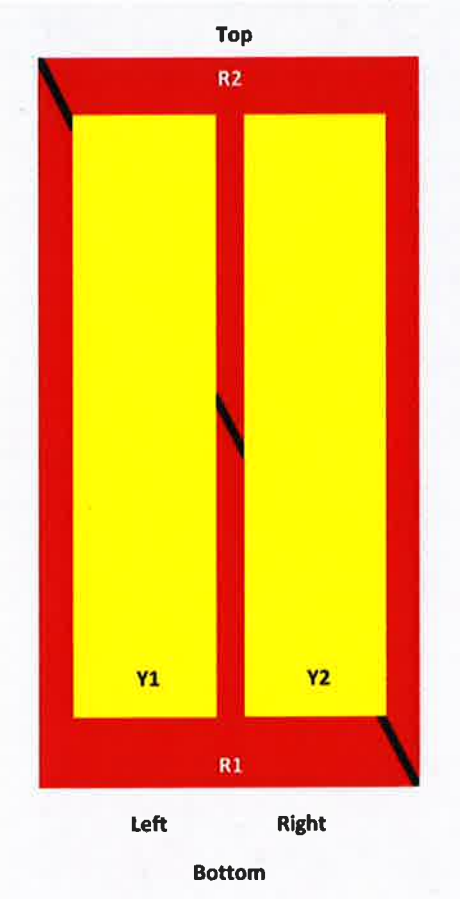
* CommScope® supports NGMN recommendations on Base Station Antenna Standards (BASTA). To learn more about the benefits of BASTA, download the whitepaper Time to Raise the Bar on BSAs.

Product Specifications

JAHH-65B-R3B

Array Layout

JAHH-65A-R3B JAHH-65B-R3B JAHH-65C-R3B



Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
R1	698-798	1-2	1	ANxxxxxxxxxxxxxxx1
R2	824-894	3-4	2	ANxxxxxxxxxxxxxxx2
Y1	1695-2360	5-6	3	ANxxxxxxxxxxxxxxx3
Y2	1695-2360	7-8		

View from the front of the antenna

(Sizes of colored boxes are not true depictions of array sizes)

General Specifications

Operating Frequency Band	1695 – 2360 MHz | 698 – 787 MHz | 824 – 894 MHz
Antenna Type	Sector
Band	Multiband
Performance Note	Outdoor usage

Mechanical Specifications

RF Connector Quantity, total	8
RF Connector Quantity, low band	4
RF Connector Quantity, high band	4
RF Connector Interface	4.3-10 Female

Product Specifications

JAHH-65B-R3B

Color	Light gray
Grounding Type	RF connector body grounded to reflector and mounting bracket
Radiator Material	Aluminum | Low loss circuit board
Radome Material	Fiberglass, UV resistant
Reflector Material	Aluminum
RF Connector Location	Bottom
Wind Loading, frontal	746.0 N @ 150 km/h 167.7 lbf @ 150 km/h
Wind Loading, lateral	243.0 N @ 150 km/h 54.6 lbf @ 150 km/h
Wind Loading, rear	776.0 N @ 150 km/h 174.5 lbf @ 150 km/h
Wind Speed, maximum	241 km/h | 150 mph

Dimensions

Length	1828.0 mm | 72.0 in
Width	350.0 mm | 13.8 in
Depth	208.0 mm | 8.2 in
Net Weight, without mounting kit	28.7 kg | 63.3 lb

Remote Electrical Tilt (RET) Information

Input Voltage	10–30 Vdc
Internal Bias Tee	Port 1 | Port 5
Internal RET	High band (1) | Low band (2)
Power Consumption, idle state, maximum	2 W
Power Consumption, normal conditions, maximum	13 W
Protocol	3GPP/AISG 2.0 (Single RET)
RET Interface	8-pin DIN Female | 8-pin DIN Male
RET Interface, quantity	2 female | 2 male

Packed Dimensions

Length	1975.0 mm | 77.8 in
Width	456.0 mm | 18.0 in
Depth	357.0 mm | 14.1 in
Shipping Weight	42.0 kg | 92.6 lb

Regulatory Compliance/Certifications

Agency	Classification
RoHS 2011/65/EU	Compliant by Exemption
China RoHS SJ/T 11364-2006	Above Maximum Concentration Value (MCV)
ISO 9001:2008	Designed, manufactured and/or distributed under this quality management system

Product Specifications

JAHH-65B-R3B

Included Products

BSAMNT-1 — Wide Profile Antenna Downtilt Mounting Kit for 2.4 - 4.5 in (60 - 115 mm) OD round members. Kit contains one scissor top bracket set and one bottom bracket set.

* Footnotes

Performance Note	Severe environmental conditions may degrade optimum performance

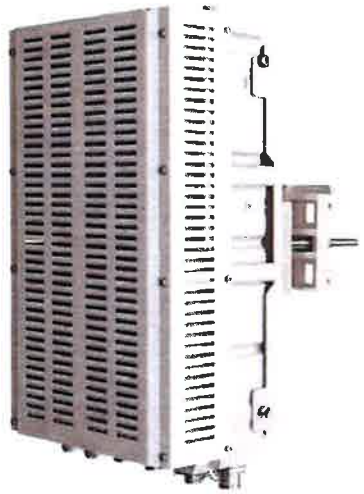
B66a RRH4x45W

Datasheet

Radio Technology FDD-LTE

Feature description:

- Remote Radio Head 4x45W or 2x90W Switchable via SW



Power Output	4 x 45 W or 2x90W (SW Switchable) w/o fans
IBW	70MHz
OBW	60 MHz
RF Sharing	LTE
Mass/Volume	25.8kg/56.9 lb Weight 655H x 299W x 182D mm 25.8"x11.8"x7.2" 29.7L / 35.5L
Antenna Conf.	4Tx/4Rx
Temperature	-40 to 55 °C
IP class	IP65
Input Power	DC 48 V
Cooling	Natural Convection
Mounting	Wall, Pole mount
BBU connection	2x 9.8Gbps SFP(Rate 7 HW ready)

B66a RRH 4x45 – Interfaces

Power:

- Max power: 816W (add 58W for AISG)
- Breaker size: 25A
- Max distance with 6ga power feed and 5.5V drop: 284 feet

RF Interfaces:

- 4.3/10 Connectors
- No monitoring ports(Spectrum analyzer SW takes place of monitoring ports)

AISG:

- Two Smart Bias-T
- One AISG port

B66 Details

- Max power for a single carrier is:
  - 2x60W for 10,15,20 MHz carrier
  - 2x40W for 5 MHz carrier
- Multi- Carrier Support with AWS-1 carriers: 15.1
- Multi- Carrier Support with AWS-3 carriers: 16.2

Carrier power: Multi-carrier

- Assuming 2 Tx power can be assigned per carrier subject to 40W max for 5Mhz, 60W for larger in 2T, cut that power in half for 4T
- Example:B4 (20Mhz) and AWS3 (10MHz)
  - Power can be varied between those two carriers, can go 60W for 20 MHz carrier, 30W for 10 MHz carrier to use the 90W in 2T.
  - It could be 45/45 for 20Mhz/10Mhz if desired.

Product Data Sheet **HB158-1-08U8-S8J18**

HYBRIFLEX™ RRH Hybrid Feeder Cabling Solution, 1-5/8", Single-Mode Fiber

Product Description

RFS' HYBRIFLEX Remote Radio Head (RRH) hybrid feeder cabling solution combines optical fiber and DC power for RRHs in a single lightweight aluminum corrugated cable, making it the world's most innovative solution for RRH deployments.

It was developed to reduce installation complexity and costs at Cellular sites. HYBRIFLEX allows mobile operators deploying an RRH architecture to standardize the RRH installation process and eliminate the need for and cost of cable grounding. HYBRIFLEX combines optical fiber (multi-mode or single-mode) and power in a single corrugated cable. It eliminates the need for junction boxes and can connect multiple RRHs with a single feeder. Standard RFS CELLFLEX² accessories can be used with HYBRIFLEX cable. Both pre-connectorized and on-site options are available.

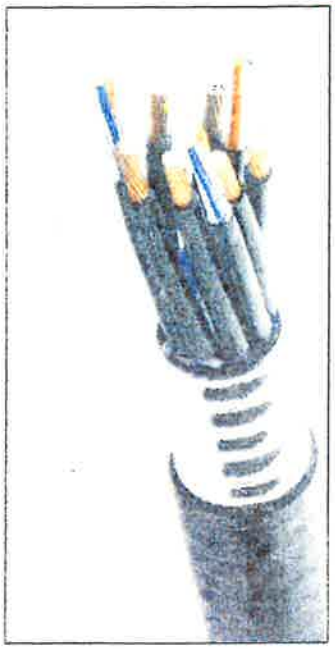


Figure 1: HYBRIFLEX Series

Features/Benefits

- Aluminum corrugated armor with outstanding bending characteristics – minimizes installation time and enables mechanical protection and shielding
- Same accessories as 1 5/8" coaxial cable
- Outer conductor grounding – Eliminates typical grounding requirements and saves on installation costs
- Lightweight solution and compact design – Decreases tower loading
- Robust cabling – Eliminates need for expensive cable trays and ducts
- Installation of tight bundled fiber optic cable pairs directly to the RRH – Reduces CAPEX and wind load by eliminating need for interconnection
- Optical fiber and power cables housed in single corrugated cable – Saves CAPEX by standardizing RRH cable installation and reducing installation requirements
- Outdoor polyethylene jacket – Ensures long-lasting cable protection

Technical Specifications

Outer Conductor Armor	Corrugated Aluminum	[mm (in)]	46.5 (1.83)
Jacket	Polyethylene, PE	[mm (in)]	50.3 (1.98)
UV-Protection	Individual and External Jacket		Yes
Weight, Approximate		[kg/m (lb/ft)]	1.9 (1.30)
Minimum Bending Radius, Single Bending		[mm (in)]	200 (8)
Minimum Bending Radius, Repeated Bending		[mm (in)]	500 (20)
Recommended/Maximum Clamp Spacing		[m (ft)]	1.0 / 1.2 (3.25 / 4.0)
DC-Resistance Outer Conductor Armor		[Ω/km (Ω/1000ft)]	068 (0.205)
DC-Resistance Power Cable, 8.4mm² (8AWG)		[Ω/km (Ω/1000ft)]	2.1 (0.307)
Version			Single-mode OM3
Quantity, Fiber Count			16 (8 pairs)
Core/Clad		[µm]	50/125
Primary Coating (Acrylate)		[µm]	245
Buffer Diameter, Nominal		[µm]	900
Secondary Protection, Jacket, Nominal		[mm (in)]	2.0 (0.08)
Minimum Bending Radius		[mm (in)]	104 (4.1)
Insertion Loss @ wavelength 850nm		dB/km	3.0
Insertion Loss @ wavelength 1310nm		dB/km	1.0
Standards (Meets or exceeds)			UL94-V0, UL1666 RoHS Compliant
Size (Power)		[mm² (AWG)]	8.4 (8)
Quantity, Wire Count (Power)			16 (8 pairs)
Size (Alarm)		[mm² (AWG)]	0.8 (18)
Quantity, Wire Count (Alarm)			4 (2 pairs)
Type			UV protected
Strands			19
Primary Jacket Diameter, Nominal		[mm (in)]	6.8 (0.27)
Standards (Meets or exceeds)			NFPA 130, ICEA S-95-658 UL Type XHHW-2, UL 44 UL-LS Limited Smoke, UL VW-1 IEEE-383 (1974), IEEE1202/FT4 RoHS Compliant
Installation Temperature		[°C (°F)]	-40 to +65 (-40 to149)
Operation Temperature		[°C (°F)]	-40 to +65 (-40 to149)

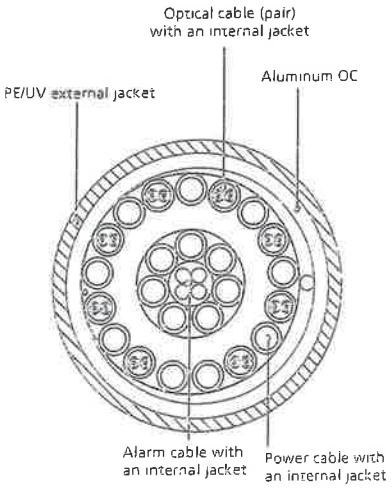


Figure 2: Construction Detail

* This data is provisional and subject to change

ATTACHMENT 2

	General	Power	Density					
Site Name: Branford S								
Tower Height: 109'								
CARRIER	**# OF CHAN.**	**WATTS ERP**	**HEIGHT**	**CALC. POWER DENS**	**FREQ.**	**MAX. PERMISS. EXP.**	**FRACTION MPE**	**Total**
*AT&T	1	500	100	880	0.0203	0.5867	0.35%	
*AT&T	1	500	100	1900	0.0203	1.0000	0.20%	
*AT&T	3	296	100	880	0.0361	0.5867	0.62%	
*AT&T	1	427	100	1900	0.0174	1.0000	0.17%	
*AT&T	1	500	100	740	0.0203	0.4933	0.41%	
*T-Mobile	8	101	80	1945	0.0530	1.0000	0.53%	
*T-Mobile	2	806	80	2100	0.1059	1.0000	1.06%	
Verizon PCS	**0**	**0**	**90**	**0.0000**	**1970**	**1.0000**	**0.00%**	
Verizon Cellular	**0**	**0**	**90**	**0.0000**	**869**	**0.5793**	**0.00%**	
Verizon AWS	**1**	**3128**	**90**	**0.1389**	**2145**	**1.0000**	**13.89%**	
Verizon 700	**1**	**945**	**90**	**0.0419**	**746**	**0.4973**	**8.43%**	
								25.7%
* Source: Siting Council								

ATTACHMENT 3

(REVISED)
STRUCTURAL ANALYSIS REPORT

For

Branford South CT

723 Leetes Island Road
Branford, CT 06405

Antennas Mounted within Stealth Water Tank; Equipment at Ground Level

Prepared for:

verizon

99 East River Drive
East Hartford, CT 06108

Dated: February 22, 2018 (Rev1)
November 21, 2017

Prepared by:

HDG HUDSON Design Group LLC

45 Beechwood Drive
North Andover, MA 01845
Phone: (978) 557-5553
www.hudsondesigngroupllc.com

HUDSON
Design Group LLC

SCOPE OF WORK:

Hudson Design Group LLC (HDG) has been authorized by Verizon to conduct a structural evaluation of the structure supporting the proposed Verizon equipment located in the areas depicted in the latest HDG's construction drawings.

This report represents this office's findings, conclusions and recommendations pertaining to the support of Verizon's proposed equipment.

This office conducted an on-site visual survey of the above areas on November 2, 2017. Attendees included Jonathan Schallack (HDG – Field Technician).

CONCLUSION SUMMARY:

Building plans were unavailable and could not be obtained for our use. A limited visual survey of the structure was completed in or near the areas of the proposed work. The following documents were used for our reference:

- Steel fabrication drawings by Stealth dated March 9, 2012.

Based on our evaluation, we have determined that the existing structure **IS CAPABLE** of supporting the proposed loading.

APPURTENANCE/EQUIPMENT CONFIGURATION:

(6) LPA-80063-6CF-EDIN-0 Antennas (70.9"x15.0"x13.1" – Wt. = 27 lbs/each)

(3) RRH 4x30-B13 RRH's (21.6"x12.0"x9.0" – Wt. = 26 lbs/each)

(2) Junction Box (23.0"x15.7"x10.3" – Wt. =27 lbs/each)

(6) JAHH-65B-R3B Antennas (72.0"x13.8"x8.2" – Wt. = 63 lbs/each)

(3) RRH 4x45-AWS RRH's (27.2"x12.1"x7.0" – Wt. = 53 lbs/each)

**Proposed Equipment shown in bold*

FEEDER LINES:

(6) 1-5/8" Coax Cables

(2) 1-1/4" Hybrid Cables

HUDSON
Design Group LLC

DESIGN CRITERIA:

1. International Building Code 2012 with 2016 Connecticut State Building Code Amendments; ASCE 7-10 Minimum Design Loads for Buildings and Other Structures.

   Wind Analysis:

Ultimate Wind Speed, V_{ult}:	130 mph	(CTSBC 2016 Appendix N)
Nominal Wind Speed, V_{asd}:	101 mph	(CTSBC 2016 Appendix N)
Category:	B	

   Roof:

Ground Snow, Pg:	30 psf

2. EIA/TIA -222- G Structural Standards for Steel Antenna Towers and Antenna Supporting Structures

County:	New Haven	
Max. Wind Speed:	115 mph	(Basic Wind Speed)
Min. Speed (with ice):	50 mph	(Basic Wind Speed)
Nominal Ice Thickness:	3/4 inch	

3. Approximate height above grade to center line of antennas:

   90' +/-

ANTENNA SUPPORT RECOMMENDATIONS:

The new antennas are proposed to be mounted on existing pipe masts fastened to existing steel grating secured with G clips within the existing Stealth water tank.

The equipment is to be hidden within the existing fiberglass enclosure. The existing enclosure will not have any additional wind load.

RRH SUPPORT RECOMMENDATIONS:

The new RRH's are proposed to be mounted to new unistrut components secured in the interior of the Stealth water tank.

Limitations and assumptions:

1. Reference the latest HDG construction drawings for all the equipment locations details.
2. Mount all equipment per manufacturer's specifications.
3. All structural members and their connections are assumed to be in good condition and are free from defects with no deterioration to its member capacities.
4. All antennas, coax cables and waveguide cables are assumed to be properly installed and supported as per the manufacturer requirements.
5. HDG is not responsible for any modifications completed prior to and hereafter which HDG was not directly involved.
6. If field conditions differ from what is assumed in this report, then the engineer of record is to be notified as soon as possible.
7. A condition assessment of the existing structure was not part of the scope of work.

FIELD PHOTOS:

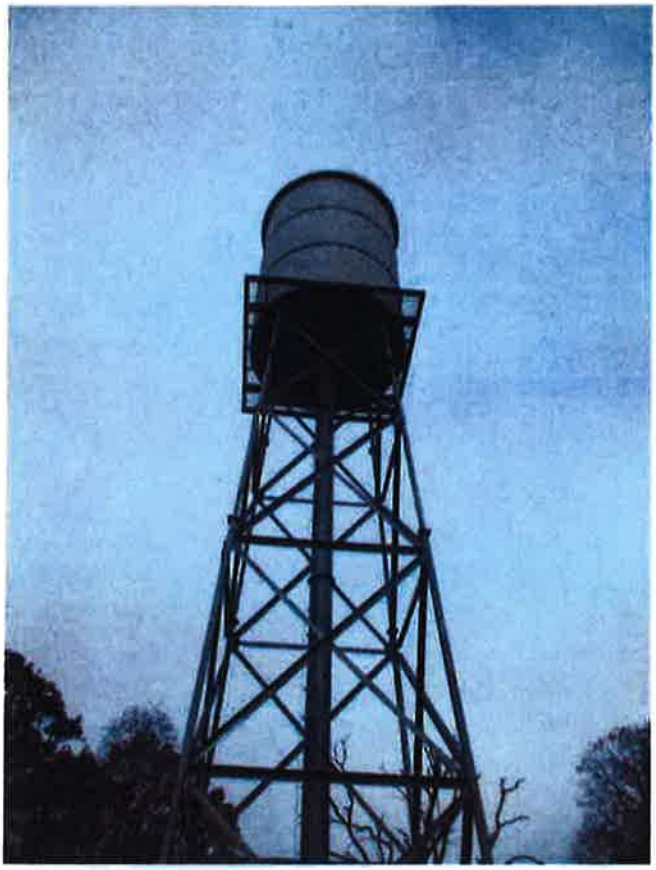


Photo 1: Sample photo illustrating existing water tank.

Photo 2: Sample photo illustrating existing equipment located under canopy.

HUDSON
Design Group LLC

Calculations

Date: 2/22/18
Project Name: Brandford South CT
Designed By: BD **Checked By:** MSC

HUDSON Design Group

ICE WEIGHT CALCULATIONS

Thickness of ice (in): 0.75
* Density of ice used = 56 PCF

LPA-80063-6CF-EDIN-0 Antenna

Weight of ice based on total radial SF area:		
Depth (in):	13.1	
height (in):	70.9	
Width (in):	15.0	
Total weight of ice on object:		106 lbs
Weight of object:	27 lbs	
Combined weight of ice and object:		133 lbs

JAHH-65B-R3B Antenna

Weight of ice based on total radial SF area:		
Depth (in):	8.2	
height (in):	72.0	
Width (in):	13.8	
Total weight of ice on object:		83 lbs
Weight of object:	63 lbs	
Combined weight of ice and object:		146 lbs

RRH 4x30-B13 RRH

Weight of ice based on total radial SF area:		
Depth (in):	9.0	
height (in):	21.6	
Width (in):	12.0	
Total weight of ice on objec .		27 lbs
Weight of object:	26 lbs	
Combined weight of ice and object:		53 lbs

RRH 4x45-AWS RRH

Weight of ice based on total radial SF area:		
Depth (in):	7.0	
height (in):	27.2	
Width (in):	12.1	
Total weight of ice on object:		29 lbs
Weight of object:	53 lbs	
Combined weight of ice and object:		82 lbs

Junction Box

Weight of ice based on total radial SF area:		
Depth (in):	10.3	
height (in):	23.0	
Width (in):	15.7	
Total weight of ice on objec .		37 lbs
Weight of object:	27 lbs	
Combined weight of ice and object:		64 lbs

2" pipe

Per foot weight of ice:		
diameter (in):	2.375	
Per foot weight of ice on object:		2 lbs/ft

Date: 02/22/2018
Project Name: Branford South CT
Designed By: BD **Checked By:** MSC

HUDSON Design Group LLC

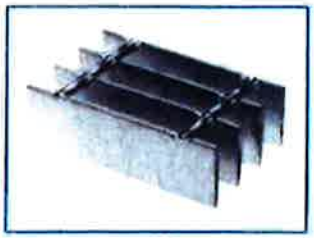
Steel Grating Calculations

Load	63 lb			
Base Plate Length	6 in			
Base Plate Width	6 in			
BP Area	0.25 sq. ft			
Load per sq ft.	252.0 psf			
Load per sq in.	1.8 psi			
Safe Allowable Uniform Load	281 psf			
Applied Load	252.0 psf	<	281 psf	**GOOD**

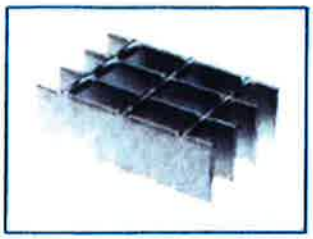
Steel Bar Grating

WELDED

1-3/16" Center to Center of Bearing Bars



19-W-4
Cross Rods 4" C/C



19-W-2
Cross Rods 2" C/C

PRESS-LOCKED

1-3/16" Center to Center of Bearing Bars

19-P-4
Cross Bars 4" C/C

19-P-2
Cross Bars 2" C/C

LOAD & DEFLECTION TABLE

Bar Size	Symbol		Approx Weight psf	Sec. Mod Per Ft Of Width		SPAN (Length of Bearing Bar) 2'-0"	2'-6"	3'-0"	3'-6"	4'-0"	4'-6"	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"	8'-0"	9'-0"
3/4" x 1/8"	19-4-32	W	3.9	0.118	U	355	227	158	116	89	70							
		P	4.3		D	0.099	0.155	0.223	0.304	0.397	0.503							
	19-2-32	W	4.4		C	355	284	237	203	178	158							
		P	5.2		D	0.079	0.124	0.179	0.243	0.318	0.402							
3/4" x 3/16"	19-4-33	W	5.6	0.178	U	533	341	237	174	133	105							
		P	6.4		D	0.099	0.155	0.223	0.304	0.397	0.503							
	19-2-33	W	6.2		C	533	428	355	305	266	237							
		P	7.8		D	0.079	0.124	0.179	0.243	0.318	0.402							
1" x 1/8"	19-4-42	W	5.0	0.211	U	632	404	281	206	158	125	101	84					
		P	5.4		D	0.074	0.116	0.168	0.228	0.298	0.377	0.466	0.563					
	19-2-42	W	5.5		C	632	505	421	361	316	281	253	230					
		P	6.3		D	0.060	0.093	0.134	0.182	0.238	0.302	0.372	0.451					
1" x 3/16"	19-4-43	W	7.2	0.316	U	947	606	421	309	237	187	152	125					
		P	8.1		D	0.074	0.116	0.168	0.228	0.298	0.377	0.466	0.563					
	19-2-43	W	7.8		C	947	758	632	541	474	421	379	344					
		P	9.5		D	0.060	0.093	0.134	0.182	0.238	0.302	0.372	0.451					
1-1/4" x 1/8"	19-4-52	W	6.1	0.329	U	987	632	439	322	247	195	158	130	110	93	81		
		P	6.8		D	0.060	0.093	0.134	0.182	0.238	0.302	0.372	0.451	0.536	0.629	0.730		
	19-2-52	W	6.6		C	987	789	658	564	493	439	395	359	329	304	282		
		P	8.1		D	0.048	0.074	0.107	0.146	0.191	0.241	0.298	0.360	0.429	0.504	0.584		
1-1/4" x 3/16"	19-4-53	W	8.9	0.493	U	1480	947	658	483	370	292	237	196	164	140	121		
		P	10.2		D	0.060	0.093	0.134	0.182	0.238	0.302	0.372	0.451	0.536	0.629	0.730		
	19-2-53	W	9.5		C	1480	1184	987	846	740	658	592	538	493	455	423		
		P	12.1		D	0.048	0.074	0.107	0.146	0.191	0.241	0.298	0.360	0.429	0.504	0.584		
1-1/2" x 1/8"	19-4-62	W	7.2	0.474	U	1421	909	632	464	355	281	227	188	158	135	116	89	70
		P	7.9		D	0.050	0.078	0.112	0.152	0.199	0.251	0.310	0.376	0.447	0.524	0.608	0.794	1.006
	19-2-62	W	7.7		C	1421	1137	947	812	711	632	568	517	474	437	406	355	316
		P	9.2		D	0.040	0.062	0.089	0.122	0.159	0.201	0.248	0.300	0.358	0.420	0.487	0.636	0.804
1-1/2" x 3/16"	19-4-63	W	10.5	0.711	U	2132	1364	947	696	533	421	341	282	237	202	174	133	105
		P	11.8		D	0.050	0.078	0.112	0.152	0.199	0.251	0.310	0.376	0.447	0.524	0.608	0.794	1.006
	19-2-63	W	11.2		C	2132	1705	1421	1218	1066	947	853	775	711	658	609	533	474
		P	13.8		D	0.040	0.062	0.089	0.122	0.159	0.201	0.248	0.300	0.358	0.420	0.487	0.636	0.804
1-3/4" x 3/16"	19-4-73	W	12.2	0.967	U	2901	1857	1289	947	725	573	464	384	322	275	237	181	143
		P	13.5		D	0.043	0.067	0.096	0.130	0.170	0.215	0.266	0.322	0.383	0.450	0.521	0.681	0.862
	19-2-73	W	12.8		C	2901	2321	1934	1658	1451	1289	1161	1055	967	893	829	725	645
		P	15.4		D	0.034	0.053	0.077	0.104	0.136	0.172	0.213	0.257	0.306	0.360	0.417	0.545	0.689
2" x 3/16"	19-4-83	W	13.9	1.263	U	3789	2425	1684	1237	947	749	606	501	421	359	309	237	187
		P	15.2		D	0.037	0.058	0.084	0.114	0.149	0.189	0.233	0.282	0.335	0.393	0.456	0.596	0.754
	19-2-83	W	14.5		C	3789	3032	2526	2165	1895	1684	1516	1378	1263	1166	1083	947	842
		P	17.1		D	0.030	0.047	0.067	0.091	0.119	0.151	0.186	0.225	0.268	0.315	0.365	0.477	0.603
2-1/4" x 3/16"	19-4-93	W	15.5	1.599	U	4796	3069	2132	1566	1199	947	767	634	533	454	392	300	237
		P	16.8		D	0.033	0.052	0.074	0.101	0.132	0.168	0.207	0.250	0.298	0.350	0.406	0.530	0.670
	19-2-93	W	16.1		C	4796	3837	3197	2741	2398	2132	1918	1744	1599	1476	1370	1199	1066
		P	18.7		D	0.026	0.041	0.060	0.081	0.106	0.134	0.166	0.200	0.238	0.280	0.324	0.424	0.536
2-1/2" x 3/16"	19-4-103	W	17.2	1.974	U	5921	3789	2632	1933	1480	1170	947	783	658	561	483	370	292
		P	18.5		D	0.030	0.047	0.067	0.091	0.119	0.151	0.186	0.225	0.268	0.315	0.365	0.477	0.603
	19-2-103	P	17.8		C	5921	4737	3947	3383	2961	2632	2368	2153	1974	1822	1692	1480	1316
		P	20.4		D	0.024	0.037	0.064	0.073	0.095	0.121	0.149	0.180	0.215	0.252	0.292	0.381	0.483

U = safe uniform load, psf
C = safe concentrated load, pfw
D = deflection, inches
E = modulus of elasticity, 29,000,000 psi
F = fiber stress, 18,000 psi

Material: ASTM A-569 standard

Deflection: Spans and loads to the right of the bold line exceed 1/4" deflection for uniform load of 100 psf which provides safe pedestrian comfort. These can be exceeded for other types of loads with engineer's approval.

Serrated Bars: For serrated grating, the depth of grating required for a specified load is 1/4" deeper than that shown in the table.

General: Loads and deflections are theoretical and based on static loading.

W/P-19 PANEL WIDTH (inches)

Note: P-Press-Locked cross bars typically extend 1/8" each side. W-Welded cross rods may extend 1/8" each side. Panel widths do not include these extensions.

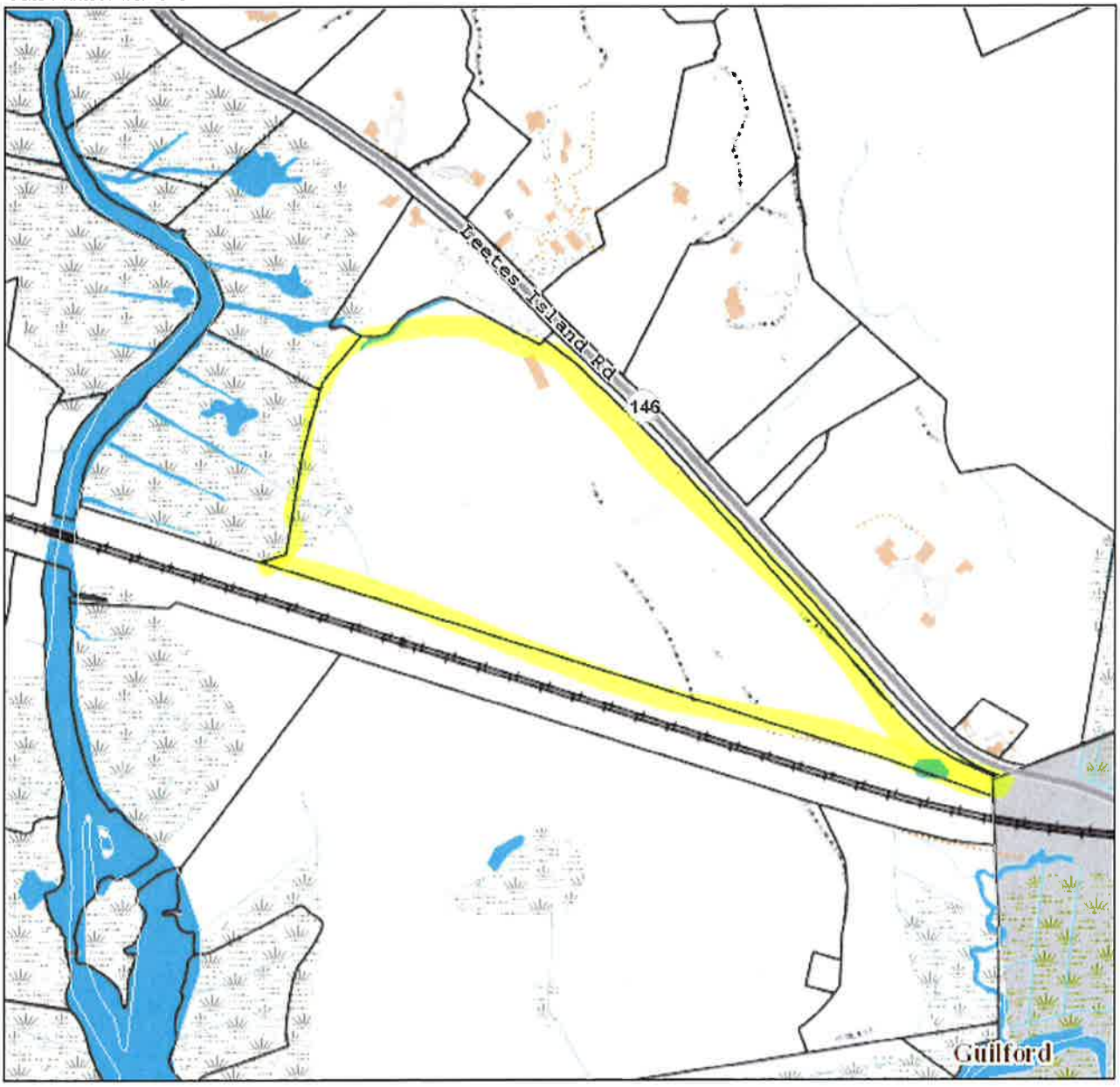
No. of Bars	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1/8" Bar	1 5/16	2 1/2	3 11/16	4 7/8	6 1/16	7 1/4	8 7/16	9 5/8	10 13/16	12	13 3/16	14 3/8	15 9/16	16 3/4	17 15/16
3/16" Bar	1 3/8	2 9/16	3 3/4	4 15/16	6 1/8	7 5/16	8 1/2	9 11/16	10 7/8	12 1/16	13 1/4	14 7/16	15 5/8	16 13/16	18
No. of Bars	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**
1/8" Bar	19 1/8	20 5/16	21 1/2	22 11/16	23 7/8	25 1/16	26 1/4	27 7/16	28 5/8	29 13/16	31	32 3/16	33 3/8	34 9/16	35 3/4
3/16" Bar	19 3/16	20 3/8	21 9/16	22 3/4	23 15/16	25 1/8	26 5/16	27 1/2	28 11/16	29 7/8	31 1/16	32 1/4	33 7/16	34 5/8	35 13/16

ATTACHMENT 4

Town of Branford

Geographic Information System (GIS)

Date Printed: 1/9/2018



MAP DISCLAIMER - NOTICE OF LIABILITY

This map is for assessment purposes only. It is not for legal description or conveyances. All information is subject to verification by any user. The Town of Branford and its mapping contractors assume no legal responsibility for the information contained herein.

0 400 Feet

N W E S

723 LEETES ISLAND RD

Location	723 LEETES ISLAND RD	**Mblu**	K09/000 004/ 00008/ /
Acct#	005957	**Owner**	MEDLYN JAMES JOHN
Assessment	$252,200	**Appraisal**	$372,400
PID	13123	**Building Count**	1

Current Value

Appraisal			
Valuation Year	**Improvements**	**Land**	**Total**
2014	$41,300	$331,100	$372,400
Assessment			
Valuation Year	**Improvements**	**Land**	**Total**
2014	$28,900	$223,300	$252,200

Owner of Record

Owner	MEDLYN JAMES JOHN	**Sale Price**	$0
Co-Owner		**Certificate**	
Address	710 LEETES ISLAND RD BRANFORD, CT 06405	**Book & Page**	0270/0272
		Sale Date	08/29/1975

Ownership History

Ownership History				
Owner	**Sale Price**	**Certificate**	**Book & Page**	**Sale Date**
MEDLYN JAMES JOHN	$0		0270/0272	08/29/1975

Building Information

Building 1 : Section 1

Year Built:
Living Area: 0
Replacement Cost: $0
Building Percent Good:
Replacement Cost Less Depreciation: $0

Building Attributes	
Field	**Description**

Style	Outbuildings
Model	
Grade:	
Stories:	
Occupancy	
Exterior Wall 1	
Exterior Wall 2	
Roof Structure:	
Roof Cover	
Interior Wall 1	
Interior Wall 2	
Interior Flr 1	
Interior Flr 2	
Heat Fuel	
Heat Type:	
AC Type:	
Total Bedrooms:	
Total Bthrms:	
Total Half Baths:	
Total Xtra Fixtrs:	
Total Rooms:	
Bath Style:	
Kitchen Style:	
Cottage Cmplx	
Cottage Adj	

Building Photo

(http://images.vgsi.com/photos/BranfordCTPhotos//default.jpg)

Building Layout

Building Layout

Building Sub-Areas (sq ft)	Legend
No Data for Building Sub-Areas	

Extra Features

Extra Features	Legend
No Data for Extra Features	

Land

Land Use

Use Code	7100
Description	FARM
Zone	R5
Neighborhood	0080
Alt Land Appr	No
Category	

Land Line Valuation

Size (Acres)	19.12
Frontage	
Depth	
Assessed Value	$223,300
Appraised Value	$331,100

Outbuildings

Outbuildings						Legend
Code	Description	Sub Code	Sub Description	Size	Value	Bldg #
GRN3	PIPE & PLASTIC			3264 S.F.	$0	1
PAV2	PAVING-CONC			940 S.F.	$3,100	1
FN4	FENCE-8' CHAIN			2080 L.F.	$25,000	1
SHD6	SHED COM MAS			360 S.F.	$7,900	1
SHD6	SHED COM MAS			240 S.F.	$5,300	1

Valuation History

Appraisal			
Valuation Year	Improvements	Land	Total
2016	$41,300	$331,100	$372,400
2015	$41,300	$331,100	$372,400
2014	$41,300	$331,100	$372,400

Assessment			
Valuation Year	Improvements	Land	Total
2016	$28,900	$223,300	$252,200
2015	$28,900	$223,300	$252,200
2014	$28,900	$223,300	$252,200

ATTACHMENT 5

UNITED STATES POSTAL SERVICE®

Certificate of Mailing — Firm

Name and Address of Sender	TOTAL NO. of Pieces Listed by Sender	TOTAL NO. of Pieces Received at Post Office™	Affix Stamp Here *Postmark with Date of Receipt.*
Kenneth C. Baldwin, Esq. Robinson & Cole LLP 280 Trumbull Street Hartford, CT 06103	3	3	neopost 02/27/2018 US POSTAGE $002.38 ZIP 06103 041L122035
	Postmaster, per *(name of receiving employee)*		

USPS® Tracking Number / Firm-specific Identifier	Address (Name, Street, City, State, and ZIP Code™)	Postage	Fee	Special Handling	Parcel Airlift
1.	James B. Cosgrove, First Selectman Town of Branford 1019 Main Street Branford, CT 06405				
2.	Harry Smith, Town Planner Town of Branford 1019 Main Street Branford, CT 06405				
3.	John Medlyn 710 Leetes Island Road Branford, CT 06405	OLD STATE HOUSE STA 06108 FEB 2 2018 USPS			
4.					
5.					
6.					

PS Form **3665**, January 2017 (Page ___ of ___) PSN 7530-17-000-5549

See Reverse for Instructions