



## VILLAGE OF CAYUGA HEIGHTS

836 HANSHAW ROAD · ITHACA · NY · 14850

(607) 257-1238 · FAX: (607) 257-4910

June 12, 2019

Notice is hereby given that the Village of Cayuga Heights Planning Board will hold a Public Hearing at 7:00pm on June 24, 2019 in Village Hall, 836 Hanshaw Road, to receive comments on the proposed co-location of equipment, by DISHNETWORK on the existing telecommunications tower, owned by Verizon, at 186 ½ Pleasant Grove Road: which is subject to site plan review under the Village of Cayuga Heights Zoning Law.

Brent Cross  
Zoning Officer  
June 12, 2019

190 Pleasant Grove Road, LLC  
186 Pleasant Grove Rd  
Ithaca NY 14850

Upland Rd Estates  
PO Box 81  
Ithaca NY 14851

Walsh, Peter J & Doris L  
9 Lowell Pl  
Ithaca NY 14850

Sarkus, Peter & Kimball, J M  
186 Pleasant Grove Rd  
Ithaca NY 14850

Country Club of Ithaca  
189 Pleasant Grove Rd  
Ithaca NY 14850

Pleasant Grove Cemetery  
184 Pleasant Grove Rd  
Ithaca NY 14850

Verizon New York Inc  
PO Box 2749  
Addison TX 75001

Campbell, D & Watkins, A  
11 Lowell Pl  
Ithaca NY 14850

**Police Dept. & Village Administration**  
**OFFICE HOURS**  
**9 AM – 4:30 PM**

[www.cayuga-heights.ny.us](http://www.cayuga-heights.ny.us)

DESKY BY: \_\_\_\_\_  
 CHECKED BY: \_\_\_\_\_  
 APPROVE: \_\_\_\_\_

DATE	DESCRIPTION	REV	ISSUED BY
12.18.19	FOR REVIEW	A	RP
01.04.20	FOR REVIEW	1	RP
01.21.20	FOR REVIEW	2	RP

THE INSTALLED EQUIPMENT IN THIS SET OF DOCUMENTS IS PROVIDED BY NATURE OF THE CONTRACT TO BE PROVIDED WITHOUT THE RESPONSIBILITY OF HUDSON ENGINEERING, PLLC BY CONTRACTOR.

DISH WIRELESS SITE ID: NY0060006B  
 TOWER OWNER SITE ID: 413197  
 SITE ADDRESS: 186 PLEASANT GROVE ROAD ITHACA, NY 14850

SHEET TITLE: TOWER ELEVATION & ANTENNA LAYOUT  
 SHEET NUMBER: C-3

**ANTENNA LAYOUT NOTES:**

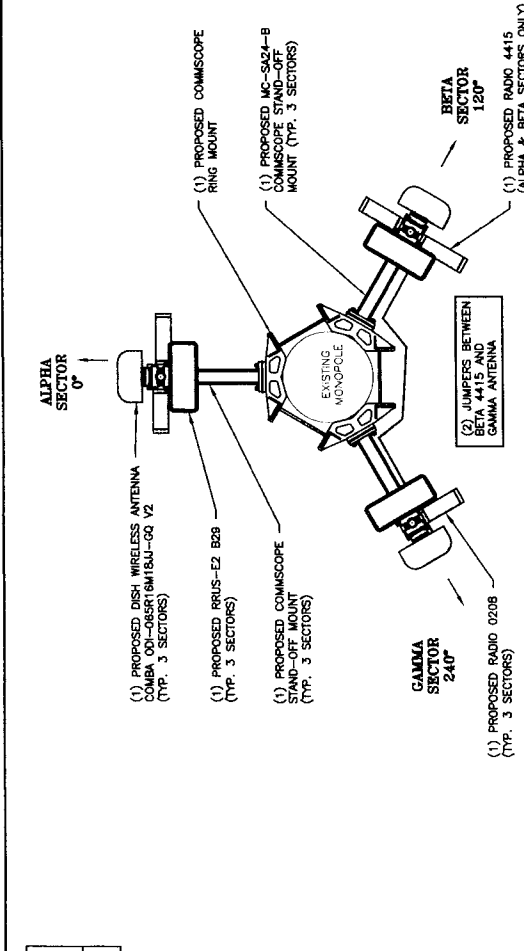
- THIS ANTENNA ORIENTATION PLAN IS A SCHEMATIC. THE CONTRACTOR SHALL VERIFY ALL ANTENNA POSITIONS AND COORDINATE REQUIRED ADJUSTMENTS TO ACHIEVE THE DESIRED ANTENNA AZIMUTHS.
- ANTENNA CENTERLINE HEIGHT AT BASE OF TOWER, ASSUMING HEIGHT OF 0'-0" AT SAND REFERENCE POINT.
- ALL ANTENNAS, CABLES AND MOUNTS SHALL BE INSTALLED IN ACCORDANCE WITH THE STRUCTURAL ANALYSIS REPORT. RECOMMENDATIONS IN A MANNER CONSISTENT WITH THE STRUCTURAL ANALYSIS REPORT.
- ALL ANTENNA BRACKETS PER ANTENNA MANUFACTURER'S INSTRUCTIONS. CONTRACTOR TO COORDINATE REQUIRED MECHANICAL DOWN TILT WITH DISH WIRELESS.
- ALL ANTENNA INFORMATION TO BE PROVIDED TO DISH WIRELESS PRIOR TO INSTALLATION. VERIFY POSITIONS AND AZIMUTH OF ANTENNAS WITH DISH WIRELESS PRIOR TO INSTALLATION. ANTENNAS SHOULD HAVE IDENTIFYING TORQUE MARKS SHOWN AFTER INSTALLATION.
- ALL CLOSE-OUT PHOTOS ADHERE TO DISH WIRELESS REQUIREMENTS. ALL ANTENNAS SHALL BE ADJUSTED TO MEET SYSTEM REQUIREMENTS DEPicted BY THE LATEST APPROVED RPVS.

**EQUIPMENT TESTING:**

- CONTRACTOR SHALL COMPLETE THE FOLLOWING REQUIREMENTS:
- ANTENNAS & RF JUMPERS: ANTENNA PORTS MUST HAVE DOCUMENTED PASSING SYSTEM SWEET TEST.
  - RF JUMPERS: MUST HAVE DOCUMENTED PASSING SYSTEM SWEET TEST.
  - RF TESTING IS REQUIRED FOR ALL INSTALLED ANTENNAS & FEEDLINES.
  - RETURN LOSS OF  $\leq -1$  dBd.
  - ALL SWEEPS MUST BE PROVIDED IN A PDF AS WELL AS ANRITSU (OR EQUAL) DATA FILE FORMAT. REFORM ALL TECHNICAL TESTS SPECIFIED IN THE CONSTRUCTION SOW, SECTION XIV
  - HYBRID CABLES: ALL HYBRID CABLES MUST HAVE A DOCUMENTED PASSING POWER & A FREER INSPECTION SCOPE TEST. PASSING POWER TEST SHALL BE  $\leq$  Sub-CLASSIFIED PER THE MANUFACTURER'S VARIANTS FIT-50103; PROOF OF SCOPE DIGITAL INSPECTION KIT; VARI 2303/11, 0LS-35 OPTICAL LASER LIGHT SOURCE 1310/1550 NM, SM, INTERCHANGEABLE RESULTS MUST BE PROVIDED IN PDF FORMAT.
  - FINAL ACCEPTANCE PERFORM ALL TECHNICAL TESTS SPECIFIED IN THE CONSTRUCTION SOW, SECTION XIV

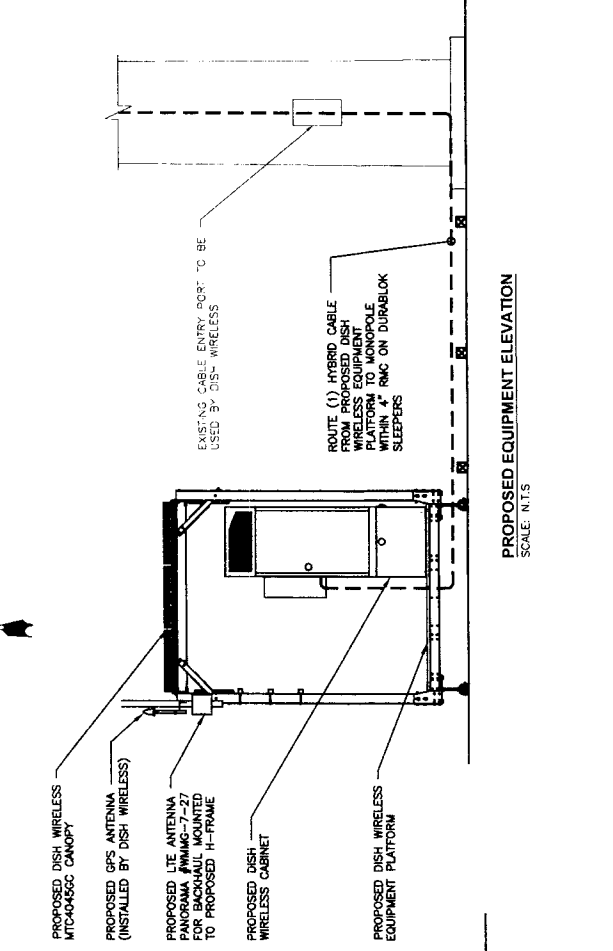
**INSTALLER NOTES:**

- EQUIPMENT LAYOUT ONLY. REFER TO SHEETS C-1 AND C-2 FOR EXACT EQUIPMENT LAYOUT, SIZES AND LOCATIONS OF ICE BRIDGE SUPPORTS SHOULD BE BLOCKS WITH GRONMETS. NO SNAP-INS ARE ALLOWED.



**NOTE:** PROPOSED RET CABLE 44155 RRU TO ANTENNA (1) PER SECTOR. BETA SECTOR TO BE DASH CHAINED TO GAMMA.

**PROPOSED ANTENNA LAYOUT**  
 SCALE: N.T.S.



**NOTES:**

- DISH WIRELESS TO CONFIRM WITH TOWER OWNER THE VERTICAL LEASE AREA RIGHTS FOR ANY EXISTING EQUIPMENT AND CONSTRUCT DESIRED DISH WIRELESS RAD-CENTER.
- TOWER FACE WIDTH/DIAMETER IS AN ESTIMATE FROM STRUCTURAL ANALYSIS.

TOP OF EXISTING MONOPOLE ELEVATION  
 ELEV. = 720 ± A.G.L.

Ø OF DISH WIRELESS ANTENNAS  
 ELEV. = 68'-0" ± A.G.L.

RAD CENTER  
 88'-0"

PROPOSED DISH WIRELESS ANTENNA LAYOUT (FOR DETAILS)

ROUTE (1) HYBRID DISH WIRELESS RRD WIRELESS RRD CENTER

SEE EQUIPMENT ELEVATION FOR DETAILS

PROPOSED DISH WIRELESS EQUIPMENT PLATFORM

PROPOSED DISH WIRELESS WIRELESS CABINET

PROPOSED GPS ANTENNA PANORAMA PNMING-7-27 FOR BACKHAUL MOUNTED TO PROPOSED H-FRAME

PROPOSED DISH WIRELESS MT-0455C CANOPY (INSTALLED BY DISH WIRELESS)

EXISTING CABLE ENTRY PORT TO BE USED BY DISH WIRELESS

ROUTE (1) HYBRID CABLE FROM PROPOSED DISH WIRELESS EQUIPMENT PLATFORM TO MONOPOLE RING ON DURALOK SLEEPERS

PROPOSED DISH WIRELESS EQUIPMENT PLATFORM

PROPOSED DISH WIRELESS WIRELESS CABINET

PROPOSED GPS ANTENNA PANORAMA PNMING-7-27 FOR BACKHAUL MOUNTED TO PROPOSED H-FRAME

PROPOSED DISH WIRELESS MT-0455C CANOPY (INSTALLED BY DISH WIRELESS)

EXISTING CABLE ENTRY PORT TO BE USED BY DISH WIRELESS

ROUTE (1) HYBRID CABLE FROM PROPOSED DISH WIRELESS EQUIPMENT PLATFORM TO MONOPOLE RING ON DURALOK SLEEPERS

PROPOSED DISH WIRELESS EQUIPMENT PLATFORM

PROPOSED DISH WIRELESS WIRELESS CABINET

PROPOSED GPS ANTENNA PANORAMA PNMING-7-27 FOR BACKHAUL MOUNTED TO PROPOSED H-FRAME

PROPOSED DISH WIRELESS MT-0455C CANOPY (INSTALLED BY DISH WIRELESS)

EXISTING CABLE ENTRY PORT TO BE USED BY DISH WIRELESS

SCALE: N.T.S.

SCALE: N.T.S.

SCALE: N.T.S.

SCALE: N.T.S.

SCALE: N.T.S.

SCALE: N.T.S.

SCALE: N.T.S.

SCALE: N.T.S.

SCALE: N.T.S.

SCALE: N.T.S.

SCALE: N.T.S.

SCALE: N.T.S.

SCALE: N.T.S.

SCALE: N.T.S.

SCALE: N.T.S.

SCALE: N.T.S.

SCALE: N.T.S.

SCALE: N.T.S.

SCALE: N.T.S.

SCALE: N.T.S.

SCALE: N.T.S.

SCALE: N.T.S.

SCALE: N.T.S.

SCALE: N.T.S.

SCALE: N.T.S.

SCALE: N.T.S.

SCALE: N.T.S.

SCALE: N.T.S.

SCALE: N.T.S.

SCALE: N.T.S.