



IN CITY COUNCIL

Marlborough, Mass., AUGUST 18, 2025

ORDERED:

**IN CITY COUNCIL
NOTICE OF DECISION
GRANT OF SPECIAL PERMIT**

Special Permit Application of:
Dish Wireless L.L.C
9601 S. Meridian Boulevard
Englewood, CO 80112
Order No. 25-1009432D

Locus:
115 Onamog Street
Marlborough, MA 01752
Assessors Map 81 Parcel(s) 238

DECISION

The City Council of the City of Marlborough hereby **GRANTS** the Application for a Special Permit to Dish Wireless L.L.C., with a principal office located at 9601 S. Meridian Boulevard, Englewood, CO 80112 c/o Jlee Associates 420 Northboro Road Central, Marlborough, MA 01752, as provided in the DECISION and subject to the Findings of Fact and Conditions therein.

Decision date: **August 18, 2025.**

The Decision of the City Council was filed in the Office of the City Clerk of Marlborough on the **20th** day of **August 2025.**

This is to certify that twenty (20) days have passed since the filing of the within decision and no appeal has been filed with this office.

Given at Marlborough this **10th** day of **September 2025.**

Given under Chapter 40A Section 17 of the General Laws.

A TRUE COPY

ATTEST:


City Clerk



IN CITY COUNCIL

Marlborough, Mass., AUGUST 18, 2025

PAGE 1

ORDERED:

**IN CITY COUNCIL
NOTICE OF DECISION
DECISION ON A SPECIAL PERMIT
ORDER NO. 25-1009432D**

Special Permit Application of:
Dish Wireless L.L.C.
Order No. 25-1009432D

Locus:
115 Onamog Street
Marlborough, MA 01752
Assessors Map 81, Parcel (s) 238

**DECISION ON A SPECIAL PERMIT
ORDER NO. 25-1009432D**

The City Council of the City of Marlborough hereby **GRANTS** the Application for a Special Permit to Dish Wireless L.L.C. (the "Applicant"), to allow for the co-location of a new Wireless Communications Facility (9 antennas and associated equipment) on an existing water tank, pursuant to the submitted plans, as provided in the DECISION and subject to the Findings of Fact and Conditions therein.

FINDINGS OF FACT

1. The Applicant is a duly organized and existing limited liability company and FCC Licensee having a principal office located at 9601 S. Meridian Blvd., Englewood, CO 80112 c/o Jlee Associates 420 Northboro Road Central, Marlborough, MA 01752.
2. The Applicant is a prospective lessee of a portion of the property located at 115 Onamog Street (Assessor's Map 81, Parcel(s) 238), Marlborough, Massachusetts (the "Site") owned by the City of Marlborough.
3. On April 16, 2025, the Applicant filed with the City Clerk of the City of Marlborough an application (hereinafter referred to as the "Application") for a Special Permit under Chapter 650 (Zoning) of the Code of the City of Marlborough (hereinafter referred to as the "Zoning Ordinance"), Section 650-25 entitled Wireless Communications Facilities.
4. In accordance with Article V, Section 650-18(A)(20) and Section 650-25 of the Zoning Ordinance, the Applicant proposes the co-location of a new Wireless Communications Facility (9 antennas and associated equipment) on an existing water tank (the "Use") at the Site, as shown in the plans submitted with the Application and referenced in paragraph 5 below.



IN CITY COUNCIL

Marlborough, Mass., AUGUST 18, 2025

PAGE 2

ORDERED:

5. In connection with the Application, the Applicant submitted a certified list of abutters, filing fees, and plans entitled Site Number: BOBOS01099D, 115 Onamog Street, Marlborough, MA 01752 prepared by Advanced Engineering Group, P.C., with the last revision date of February 28, 2025, (the "Plans"), attached hereto as **"ATTACHMENT A."**
6. Pursuant to the Application, the Applicant is licensed by the FCC to provide personal wireless services in the City of Marlborough and surrounding areas and currently has a problem with significant gaps in coverage and capacity issues with coverage that could be alleviated by installing the Use on the subject location as shown on the Plans.
7. The Site is located in the Residence A-3 Zoning District which allows a Special Permit to be issued for a Wireless Communication Facility ("WCF").
8. Pursuant to the Rules and Regulations of the City Council of the City of Marlborough and applicable statutes of the Commonwealth of Massachusetts, the City Council established a date for a public hearing on the Application, and the City Clerk for the City of Marlborough caused notice of the same to be advertised and determined that notice of the same was provided to abutters and the planning boards of all surrounding towns entitled thereto in accordance with applicable regulations and law.
9. The subject water tank located at the Site (Fairmount Hill Tank) is currently under a long-term, 15-year maintenance, inspection, and capital improvement contract between the City of Marlborough and Utility Service Co., Inc., as authorized under Massachusetts General Laws Chapter 40, Sections 61-69 (the "City USC Contract"). Any co-location or equipment installation must comply with the terms and conditions of the City USC Contract.
10. The Marlborough City Council, pursuant to Massachusetts General Laws Chapter 40A, opened a public hearing on the Application on June 9, 2025. The public hearing was held in the City Council Chamber, at the Marlborough City Hall, 140 Main Street. The public hearing was closed on June 9, 2025.
11. The Applicant presented oral testimony and demonstrative evidence at the public hearing, demonstrating that the Use meets all the applicable Special Permit criteria of Article VI, Section 650-25 and Article VIII, Section 650-59.
12. At the Public Hearing, there were no members of the public speaking in opposition to the Use.
13. The Council, in reviewing the Application, considered the Review Standard and Development Requirements, as enumerated in Article VI, Section 650-25 and Article VII, Section 650-59 of the City of Marlborough Zoning Ordinance, applicable to the Use.



IN CITY COUNCIL

Marlborough, Mass., AUGUST 18, 2025

PAGE 3

ORDERED:

BASED ON THE ABOVE, THE CITY COUNCIL MAKES THE FOLLOWING FINDINGS AND TAKES THE FOLLOWING ACTIONS:

- A. The Applicant has complied with the Rules and Regulations promulgated by the Marlborough City Council as they pertain to special permit applications.
- B. The City Council finds the proposed Use of the Site is in harmony with the intent and general purpose of the Zoning Ordinance of the City of Marlborough when subject to appropriate terms and conditions as provided in this Decision. The City Council makes these findings subject to the completion and adherence by the Applicant, its successors and/or assigns to the conditions more fully set forth herein.
- C. The City Council finds that the proposed Use is consistent with the purposes of Section 650-25 governing WCFs in the City.
- D. The proposed WCF and location are consistent with both the applicable review standards in Section 650-25(D) and the development requirements in Section 650-25(E).
- E. The City Council recognizes the Applicant is a federal licensee afforded certain protection under federal telecommunications law, to the extent provided by law.
- F. The City Council confirms the Applicant has demonstrated the need to construct the proposed facility to solve certain wireless coverage and capacity issues that currently exist in its network in the vicinity.
- G. The City Council finds that there are adequate, ample parking spaces on the host parcel.
- H. The City Council finds the proposed Use, which consists of an unmanned and unoccupied facility, will have no impact on traffic and pedestrian safety in the area.
- I. The City Council finds the proposed Use will not be contrary to the public health, safety, convenience and welfare and will not be offensive or detrimental.
- J. The City Council, pursuant to its authority under MGL Chapter 40A and the City of Marlborough Zoning Ordinance **GRANTS** to the Applicant a Special Permit for construction of the Use, a wireless communications facility on the existing water tank at the Site, **SUBJECT TO THE FOLLOWING CONDITIONS**, which conditions shall be binding on the Applicant, its successors and/or assigns:
 1. Construction in Accordance with Applicable Laws. Construction of all structures on the Site shall be in accordance with all applicable Building Codes and Zoning Regulations in effect in the City of Marlborough and the Commonwealth of Massachusetts, and the Use shall be built according to the Plans as may be amended during Site Plan Review.



IN CITY COUNCIL

Marlborough, Mass., AUGUST 18, 2025

PAGE 4

ORDERED:

2. Site Plan Review. The issuance of the Special Permit is further subject to detailed Site Plan Review by the Site Plan Review Committee, in accordance with the City of Marlborough Site Plan Review Ordinance prior to the issuance of the building permit. Any additional changes, alterations, modifications or amendments, as required during the process of Site Plan Review, shall be further conditions attached to the building permit, and no occupancy permit shall be issued until the Applicant has complied with all conditions. Subsequent Site Plan Review shall be consistent with the conditions of this Special Permit and the Plans submitted, reviewed and approved by the City Council as the Special Permit Granting Authority.
3. Incorporation of Submissions. All plans, photo renderings, site evaluations, briefs and other documentation provided by the Applicant as part of the Application, and as amended or revised during the application/hearing process before the City Council and/or the City Council's Public Services Committee, are herein incorporated into and become a part of this Special Permit and become conditions and requirements of the same, unless otherwise altered by the City Council.
4. Compliance with Applicable Laws. The Applicant, its successors and/or assigns agrees to comply with all municipal, state, and federal rules, regulations, and ordinances as they may apply to the construction, maintenance, and operation of the Use.
5. All work performed on the Site shall comply with this Decision. No other building or construction or activity (including but not limited to any other communications device, WCF, tower, etc.) shall occur without further modification of this Special Permit. This condition shall be interpreted consistent with federal law governing WCF's.
6. No signage or advertising of any sort shall be permitted as part of the Use.
7. The Applicant shall comply with all applicable conditions for WCFs as set forth in Section 650-25(F), each of which shall constitute conditions of this special permit.
8. Any installation, modification, or maintenance of antenna equipment on the tank shall be coordinated with Utility Service Co., Inc., the City's contracted water tank maintenance vendor, to ensure no interference with the City's maintenance obligations or tank integrity. All antenna installations shall be subject to prior review and approval by Utility Service Co., Inc., pursuant to the City USC Contract referenced in Finding of Fact Number 9 above. Any co-location or equipment installation must comply with the terms and conditions of the City USC Contract as amended. The Applicant shall be responsible for the temporary removal and reinstallation of its antennas and associated equipment if such removal is necessary to accommodate required maintenance, inspection, or renovation of the water tank, as determined by the City or its tank maintenance contractor. Costs associated with such removal shall be borne by the Applicant.



IN CITY COUNCIL

Marlborough, Mass., AUGUST 18, 2025

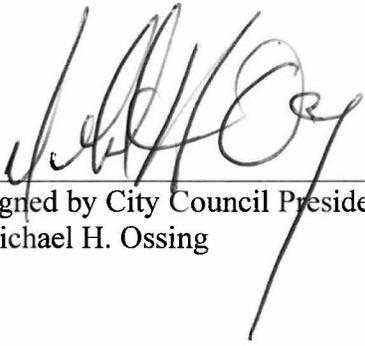
PAGE 5

ORDERED:

9. In accordance with the provisions of Massachusetts General Laws Chapter 40A, Section 11, the Applicant, its successors and/or assigns, at its expense shall record this Special Permit in the Middlesex South Registry of Deeds after the City Clerk has certified that the twenty-day period for appealing this Special Permit has elapsed with no appeal having been filed, and before the Applicant has applied to the Building Commissioner for a building permit. Upon recording, the Applicant shall forthwith provide a copy of the recorded Special Permit to the City Council Office, the Building Department and the City Solicitor's Office.

Yea: 10 – Nay: 0

Yea: Vital, Doucette, Preciado, Brown, Irish, Fuccillo, Navin, Oram, Ossing & Robey.


Signed by City Council President
Michael H. Ossing

ADOPTED
In City Council
25-1009432D

ORDER NO. 25-1009432D

ATTACHMENT

A



ZONING SUMMARY TABLE		
<ul style="list-style-type: none"> ZONING DISTRICT: A-3 ASSESSOR'S ID: 81-238 PROPOSED USE: WIRELESS COMMUNICATION FACILITY 		
DIMENSION:	REQUIRED MINIMUM	PROVIDED
FRONT YARD SETBACK*	20 FT	114 FT
SIDE YARD SETBACK*	15 FT	5.0 FT
REAR YARD SETBACK*	30 FT	834 FT
AREA	12,500 SQ. FT.	20,493± SQ. FT.
FRONTAGE	100 FT	1304 FT

* DIMENSIONS MEASURED FROM EDGE OF TOWER TO THE NEAREST PROPERTY LINE.

DRAWING REFERENCE NOTES:

- PROPERTY BOUNDARIES AND SITE FEATURES ARE BASED ON MASSGIS PARCEL LINES, DRUID MAPPING AND PLANS OF RECORD.
- ADVANCED ENGINEERING GROUP HAS NOT COMPLETED A FIELD SURVEY OF THIS PROPERTY.

LEGEND	
---	PROPERTY LINE
- - - - -	ABUTTING PROPERTY LINE
-----	EXIST. TOWN LINE BOUNDARY
---	EXIST. R.O.W. LAYOUT
---	EXIST. CHAIN LINK FENCE

PUBLIC STREET (R.O.W. 60' WIDE)

PLOT PLAN NOTES

- VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
- HORIZONTAL DATUM: NORTH AMERICAN DATUM OF 1983 (NAD83)
- CENTER OF (P) TOWER: LAT. 42° 30' 0.23" N LONG. 71° 11' 24.04" W ELEV: 527.4 A.M.S.L.
- PROPERTY OWNER: CITY OF MARLBOROUGH
140 MAIN STREET
MARLBOROUGH, MA 01752
- SITE ADDRESS: 115 ONAMOG ST
MARLBOROUGH, MA 01752
- APPLICANT: DISH WIRELESS
5701 SOUTH SANTA FE DRIVE
LITTLETON, CO 80120
- JURISDICTION: CITY OF MARLBOROUGH
- TAX ID: 81-238
- DEED REFERENCE: BOOK: 9874 PAGE: 13
- ZONING JURISDICTION: RESIDENCE A-3
- TOTAL LAND AREA: 20,493± SQ. FT.
- ALL UNDERGROUND UTILITY INFORMATION WAS DETERMINED FROM SURFACE INVESTIGATIONS AND EXISTING PLANS OF RECORD. THE CONTRACTOR SHALL LOCATE ALL UNDERGROUND UTILITIES IN THE FIELD PRIOR TO ANY SITE WORK. CALL THE FOLLOWING FOR ALL PRE-CONSTRUCTION NOTIFICATION 72-HOURS PRIOR TO ANY EXCAVATION ACTIVITY:
DIG SAFE SYSTEM (MA, NH, RI, VT): 1-866-344-7233
CALL BEFORE YOU DIG (CT): 1-800-522-4455
- PROPERTY BOUNDARIES AND EXISTING FEATURES INFORMATION HAVE BEEN COMPILED FROM MASSGIS AND CITY OF MARLBOROUGH GIS SYSTEMS. A NOTES AND BOUNDS SURVEY WAS NOT CONDUCTED BY ADVANCED ENGINEERING GROUP, P.C.
- THE PURPOSE OF THIS SURVEY IS TO SUPPORT THE DESIGN AND CONSTRUCTION OF A TELECOMMUNICATION FACILITY. USE OF THIS SURVEY BY ANYONE OTHER THAN NEXTEL TOWER ASSETS, LLC, AND USE OF THIS SURVEY FOR ANY PURPOSE NOT RELATED TO THE DESIGN OF THE INTENDED FACILITY IS STRICTLY PROHIBITED.
- THE PROPERTY LINES SHOWN ON THIS PLAN ARE THE LINES DIVIDING EXISTING OWNERSHIPS, AND THE LINES OF STREETS AND WAYS SHOWN ARE THOSE OF PUBLIC OR PRIVATE STREETS OR WAYS ALREADY ESTABLISHED, AND NO NEW LINES FOR DIVISION OF EXISTING OWNERSHIP OR FOR NEW WAYS ARE SHOWN.

PROPOSED DISH WIRELESS, LLC. CABLES FROM EQUIPMENT CABINET TO ANTENNAS RUN THROUGH EXISTING UNDERGROUND CONDUITS, OVERFLOW PIPE & ON PROPOSED BAND MOUNTS. POWER/FIBER/HYBRID CABLES

PROPOSED (2 PER SECTOR, 8 TOTAL) & FUTURE (2 PER SECTOR, 8 TOTAL)

PROPOSED DISH WIRELESS, LLC. LEASE AREA 100 SQ. FT.

PARCEL ID: 81-239
N/F
STEPANSH MARK L
BOOK: 41025, PAGE: 428

PARCEL ID: 81-289
N/F
MEDIA ONE OF MASS INC
BOOK: 30090, PAGE: 340

PARCEL ID: 81-291
N/F
CITY OF MARLBOROUGH
BOOK: 1, PAGE: 1

PARCEL ID: 81-238
N/F
CITY OF MARLBOROUGH
BOOK: 9874, PAGE: 13

PARCEL ID: 81-292
N/F
MASS ELECTRIC COMPANY
BOOK: 9750, PAGE: 354

PARCEL ID: 81-236
N/F
MASS ELECTRIC COMPANY
BOOK: 9750, PAGE: 354

PARCEL ID: 81-237
N/F
MASS ELECTRIC COMPANY
BOOK: 9750, PAGE: 354



IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

DRAWN BY: CHECKED BY: APPROVED BY:
MFR MER SNA

RFDS REV #: 0, DATE: 1/27/2025

ZONING DOCUMENTS

SUBMITTALS	
REV	DATE DESCRIPTION
A	01/28/25 SUBMIT FOR ZONING SUBMISSION

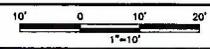
A&E PROJECT NUMBER
BOBOS01099D
115 ONAMOG ST WT

DISH Wireless L.L.C.
PROJECT INFORMATION
BOBOS01099D
115 ONAMOG ST
MARLBOROUGH, MA 01752
MIDDLESEX COUNTY

SHEET TITLE
PLOT PLAN

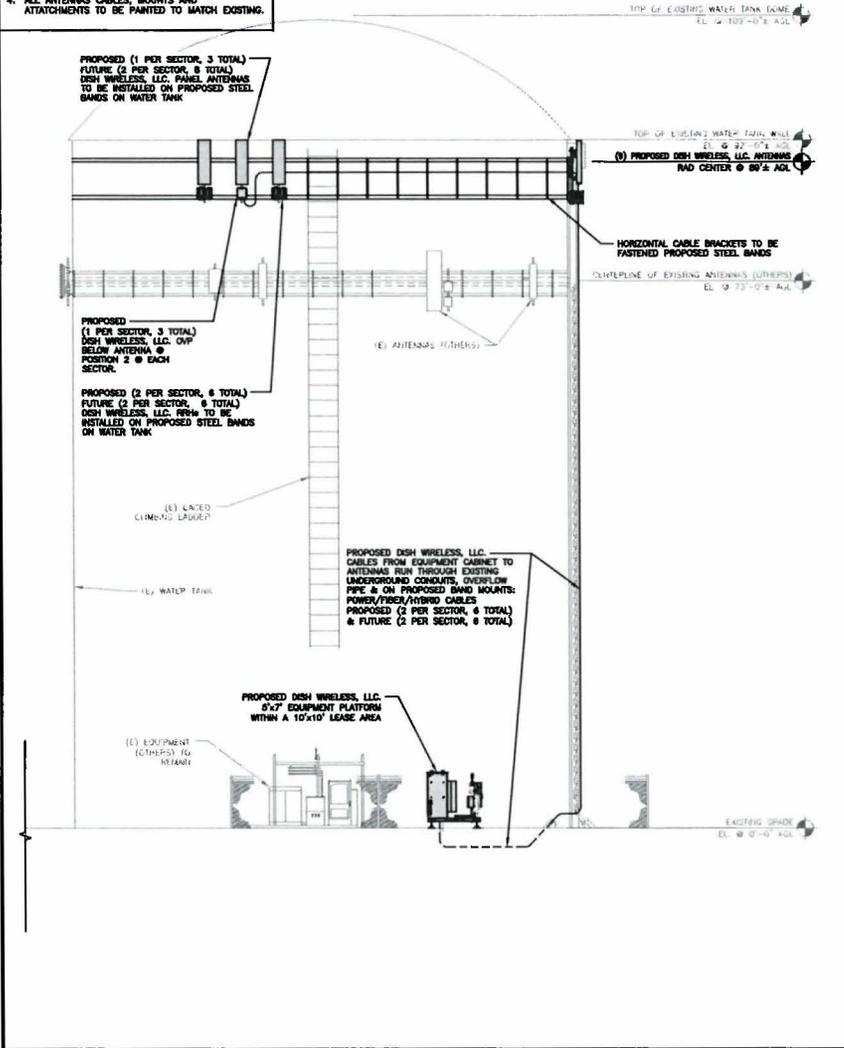
SHEET NUMBER
Z-1

PLOT PLAN

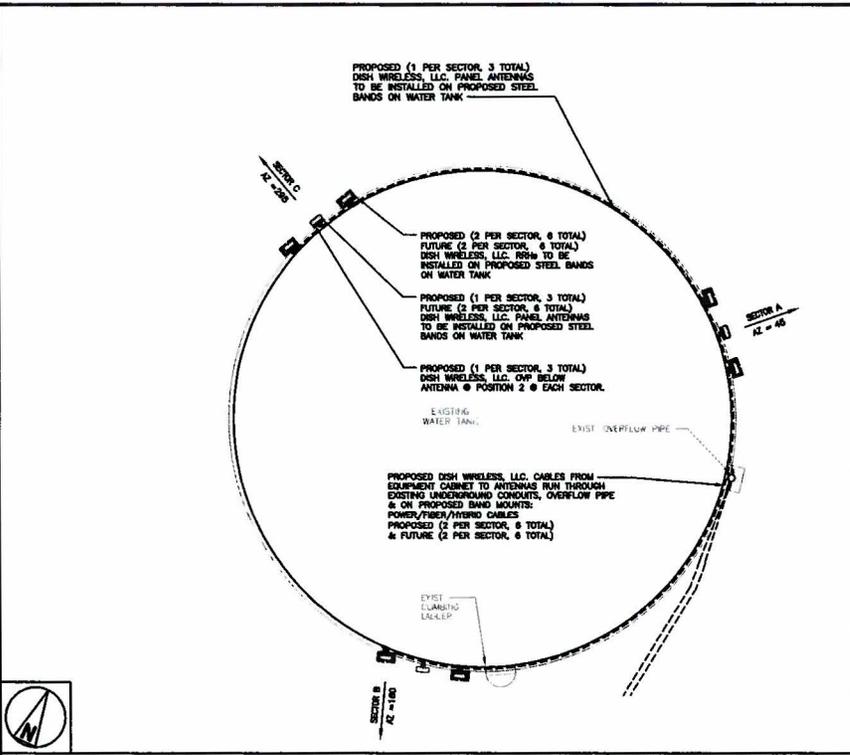
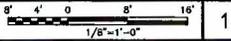


NOTES

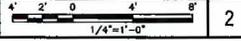
1. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS.
2. REFER TO ANTENNA SCHEDULE AND TO FINAL CONSTRUCTION RFDs FOR ALL RF DETAILS.
3. EXISTING EQUIPMENT AND FENCE OMITTED FOR CLARITY.
4. ALL ANTENNAS CABLES, MOUNTS AND ATTACHMENTS TO BE PAINTED TO MATCH EXISTING.



PROPOSED NORTH ELEVATION



ANTENNA LAYOUT



SECTOR POS.	ANTENNA				TRANSMISSION CABLE		RRH			OVP	
	EXISTING OR PROPOSED	MANUFACTURER - MODEL NUMBER	TECH	AZIMUTH	RAD CENTER	FEED LINE TYPE AND LENGTH	MANUFACTURER - MODEL NUMBER	TECH	POS.	MANUFACTURER MODEL	
A1	FUTURE	COMMSCOPE FFW-65B-R2	5G	45°	89°-0°	POWER/FIBER/HYBRID (2) PROPOSED (2) FUTURE (120' LONG)	SAMSUNG - RF44801-71A	5G	A1,A3	RAYCAP RD0C-3045-PF-48	
A2	PROPOSED	COMMSCOPE FFW-65B-R2	5G	45°	89°-0°	POWER/FIBER/HYBRID (2) PROPOSED (2) FUTURE (100' LONG)	SAMSUNG - RF44814-70A	5G	A1,A3	RAYCAP RD0C-3045-PF-48	
A3	FUTURE	COMMSCOPE FFW-65B-R2	5G	45°	89°-0°		-	-	-		-
B1	FUTURE	COMMSCOPE FFW-65B-R2	5G	160°	89°-0°	POWER/FIBER/HYBRID (2) PROPOSED (2) FUTURE (100' LONG)	SAMSUNG - RF44801-71A	5G	B1,B3	RAYCAP RD0C-3045-PF-48	
B2	PROPOSED	COMMSCOPE FFW-65B-R2	5G	160°	89°-0°		SAMSUNG - RF44814-70A	5G	B1,B3		-
B3	FUTURE	COMMSCOPE FFW-65B-R2	5G	160°	89°-0°	-	-	-	-	-	
C1	FUTURE	COMMSCOPE FFW-65B-R2	5G	295°	89°-0°	POWER/FIBER/HYBRID (2) PROPOSED (2) FUTURE (95' LONG)	SAMSUNG - RF44801-71A	5G	C1,C3	RAYCAP RD0C-3045-PF-48	
C2	PROPOSED	COMMSCOPE FFW-65B-R2	5G	295°	89°-0°		SAMSUNG - RF44814-70A	5G	C1,C3		-
C3	FUTURE	COMMSCOPE FFW-65B-R2	5G	295°	89°-0°		-	-	-		-

- NOTES**
1. CONTRACTOR TO REFER TO FINAL CONSTRUCTION RFDs FOR ALL RF DETAILS.
 2. ANTENNA AND RRH MODELS MAY CHANGE DUE TO EQUIPMENT AVAILABILITY. ALL EQUIPMENT CHANGES MUST BE APPROVED AND REMAIN IN COMPLIANCE WITH THE PROPOSED DESIGN AND STRUCTURAL ANALYSES.

ANTENNA SCHEDULE

NO SCALE 3



IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

DRAWN BY: CHECKED BY: APPROVED BY:
MER MER SNA
RFDs REV #: 0, DATE: 1/27/2025

ZONING DOCUMENTS

SUBMITTALS		
REV	DATE	DESCRIPTION
A	01/28/25	ISSUED FOR ZONING SUBMISSION

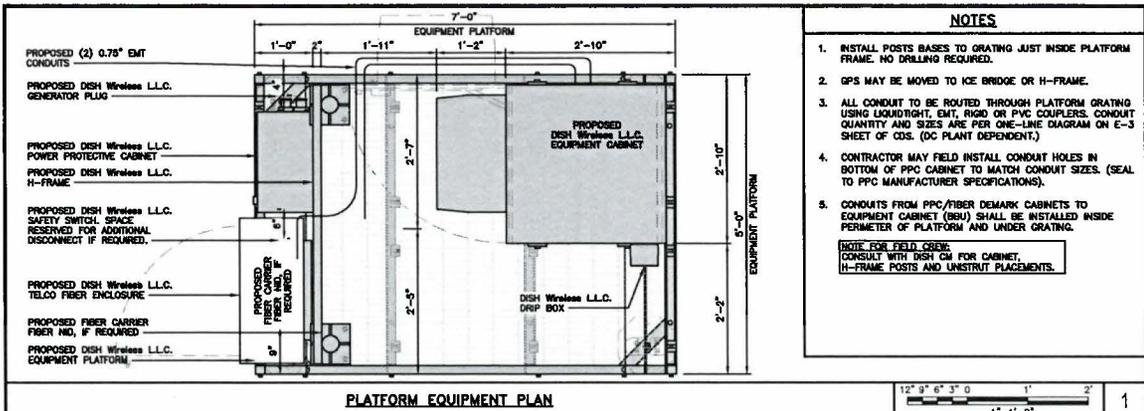
A&E PROJECT NUMBER
BOBOS01099D
115 ONAMOG ST WT

DISH Wireless L.L.C.
PROJECT INFORMATION
BOBOS01099D
115 ONAMOG ST
MARLBOROUGH, MA 01752
MIDDLESEX COUNTY

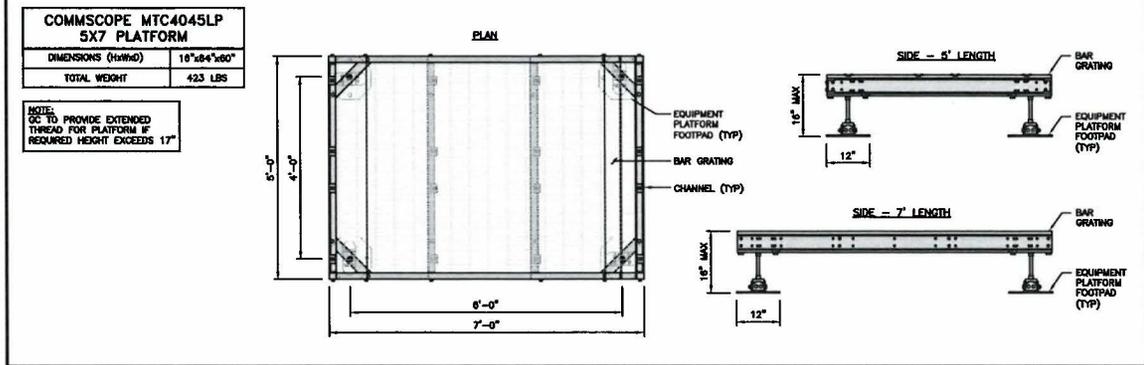
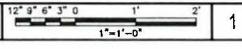
SHEET TITLE
ELEVATION, ANTENNA
LAYOUT AND SCHEDULE

SHEET NUMBER

Z-3

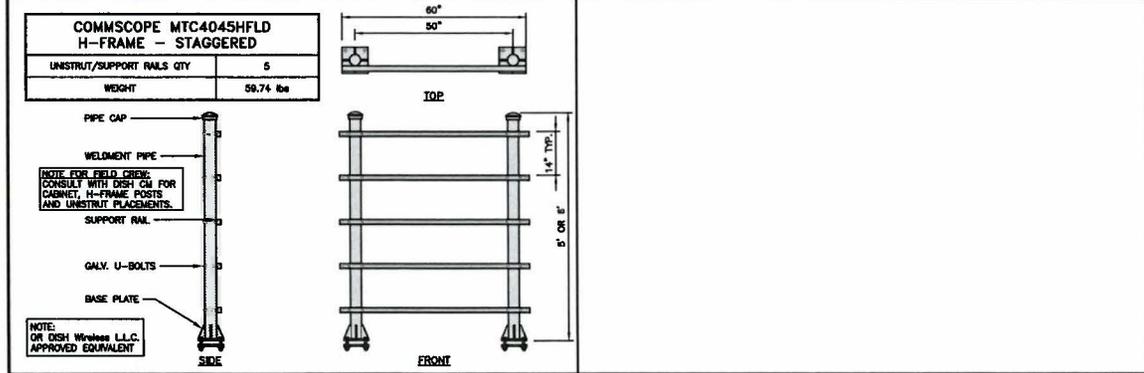


PLATFORM EQUIPMENT PLAN



PLATFORM DETAIL

NO SCALE 2

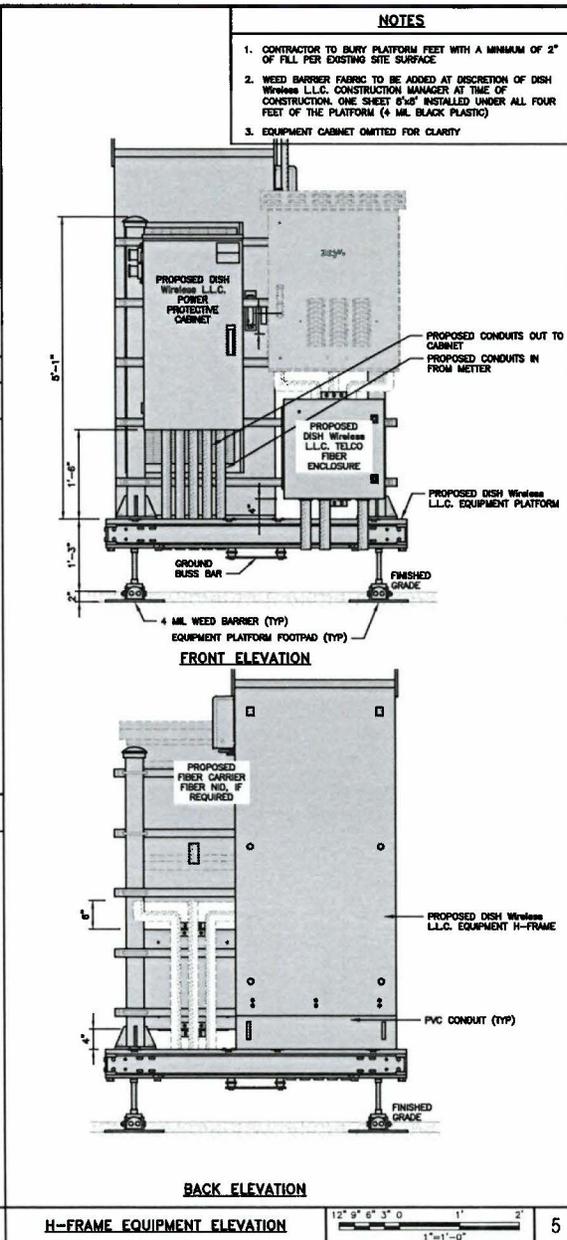


H-FRAME DETAIL

NO SCALE 3

NOT USED

NO SCALE 4



IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

DRAWN BY: CHECKED BY: APPROVED BY:
MFR MER SNA
RFDS REV #: 0, DATE: 1/27/2025

ZONING DOCUMENTS

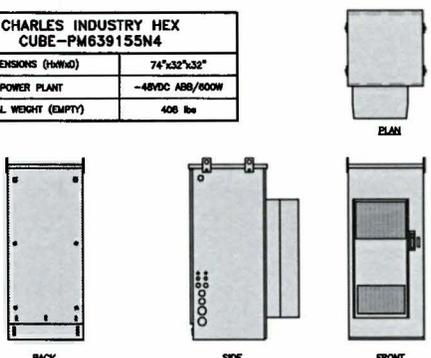
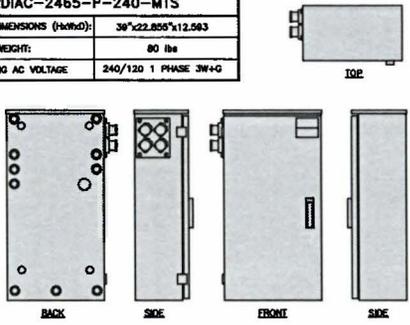
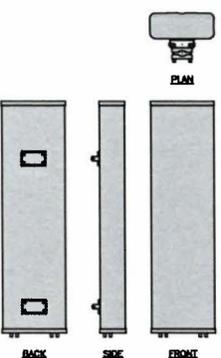
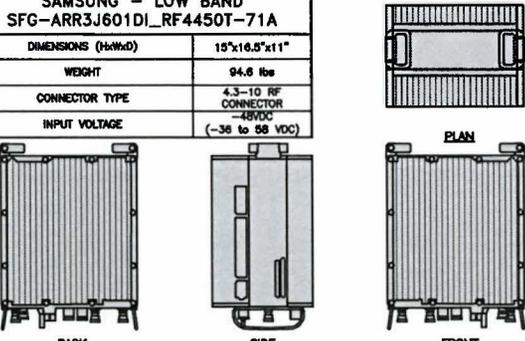
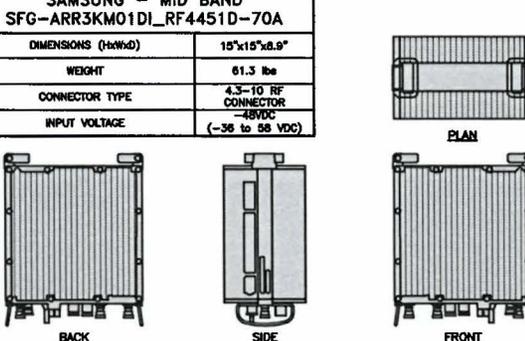
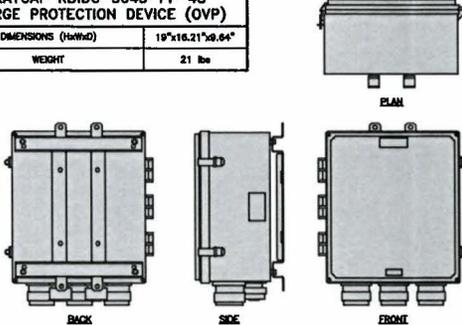
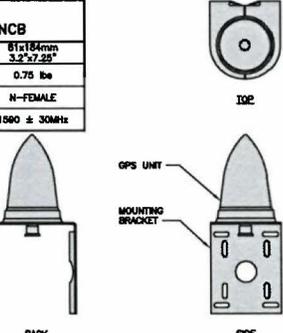
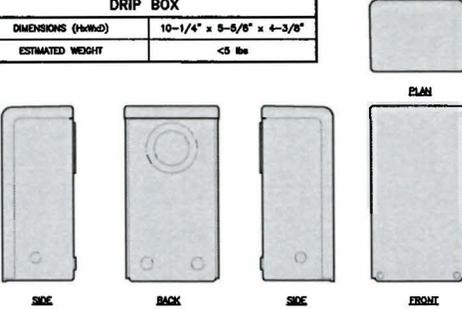
REV	DATE	DESCRIPTION
A	02/28/25	ISSUED FOR ZONING SUBMISSION

A&E PROJECT NUMBER
BOBOS01099D
115 ONAMOG ST WT
DISH Wireless L.L.C. PROJECT INFORMATION
BOBOS01099D
115 ONAMOG ST
MARLBOROUGH, MA 01752
MIDDLESEX COUNTY

SHEET TITLE
EQUIPMENT PLATFORM AND H-FRAME DETAILS

SHEET NUMBER

Z-4

<table border="1" style="width:100%; border-collapse: collapse;"> <tr><td colspan="2" style="text-align: center;">CHARLES INDUSTRY HEX CUBE-PM639155N4</td></tr> <tr><td>DIMENSIONS (HxWxD)</td><td>74"x32"x32"</td></tr> <tr><td>POWER PLANT</td><td>-48VDC ABS/600W</td></tr> <tr><td>TOTAL WEIGHT (EMPTY)</td><td>406 lbs</td></tr> </table>  <p style="text-align: center;">CABINET DETAIL</p> <p style="text-align: right;">NO SCALE 1</p>	CHARLES INDUSTRY HEX CUBE-PM639155N4		DIMENSIONS (HxWxD)	74"x32"x32"	POWER PLANT	-48VDC ABS/600W	TOTAL WEIGHT (EMPTY)	406 lbs	<table border="1" style="width:100%; border-collapse: collapse;"> <tr><td colspan="2" style="text-align: center;">RAYCAP PPC RDIAC-2465-P-240-MTS</td></tr> <tr><td>ENCLOSURE DIMENSIONS (HxWxD)</td><td>36"x22.855"x12.563</td></tr> <tr><td>WEIGHT</td><td>80 lbs</td></tr> <tr><td>OPERATING AC VOLTAGE</td><td>240/120 1 PHASE 3W+0</td></tr> </table>  <p style="text-align: center;">POWER PROTECTION CABINET (PPC) DETAIL</p> <p style="text-align: right;">NO SCALE 2</p>	RAYCAP PPC RDIAC-2465-P-240-MTS		ENCLOSURE DIMENSIONS (HxWxD)	36"x22.855"x12.563	WEIGHT	80 lbs	OPERATING AC VOLTAGE	240/120 1 PHASE 3W+0	<table border="1" style="width:100%; border-collapse: collapse;"> <tr><td colspan="2" style="text-align: center;">COMMSCOPE FFV-65B-R2</td></tr> <tr><td>DIMENSIONS (HxWxD)</td><td>72"x19.6"x7.8"</td></tr> <tr><td>ANTENNA WEIGHT</td><td>70.5 lbs</td></tr> <tr><td>WEIGHT WITH BRACKETS</td><td>84.169 lbs</td></tr> </table>  <p style="text-align: center;">ANTENNA DETAIL</p> <p style="text-align: right;">NO SCALE 3</p>	COMMSCOPE FFV-65B-R2		DIMENSIONS (HxWxD)	72"x19.6"x7.8"	ANTENNA WEIGHT	70.5 lbs	WEIGHT WITH BRACKETS	84.169 lbs	 <p style="font-size: 8px;">5701 SOUTH SANTA FE DRIVE LITTLETON, CO 80120</p>  <p style="font-size: 8px;">J. LEE ASSOCIATES 420 NORTHBORO ROAD CENTRAL MARLBOROUGH, MA 01752</p>  <p style="font-size: 8px;">420 North Elementary Marlborough, MA 01752 Tel: (401) 584-2400 Fax: (401) 584-2434</p>		
CHARLES INDUSTRY HEX CUBE-PM639155N4																													
DIMENSIONS (HxWxD)	74"x32"x32"																												
POWER PLANT	-48VDC ABS/600W																												
TOTAL WEIGHT (EMPTY)	406 lbs																												
RAYCAP PPC RDIAC-2465-P-240-MTS																													
ENCLOSURE DIMENSIONS (HxWxD)	36"x22.855"x12.563																												
WEIGHT	80 lbs																												
OPERATING AC VOLTAGE	240/120 1 PHASE 3W+0																												
COMMSCOPE FFV-65B-R2																													
DIMENSIONS (HxWxD)	72"x19.6"x7.8"																												
ANTENNA WEIGHT	70.5 lbs																												
WEIGHT WITH BRACKETS	84.169 lbs																												
<table border="1" style="width:100%; border-collapse: collapse;"> <tr><td colspan="2" style="text-align: center;">SAMSUNG - LOW BAND SFG-ARR3J601D1_RF4450T-71A</td></tr> <tr><td>DIMENSIONS (HxWxD)</td><td>15"x16.8"x11"</td></tr> <tr><td>WEIGHT</td><td>94.6 lbs</td></tr> <tr><td>CONNECTOR TYPE</td><td>4.3-10 RF CONNECTOR</td></tr> <tr><td>INPUT VOLTAGE</td><td>-48VDC (-36 to 58 VDC)</td></tr> </table>  <p style="text-align: center;">RRH DETAIL</p> <p style="text-align: right;">NO SCALE 4</p>	SAMSUNG - LOW BAND SFG-ARR3J601D1_RF4450T-71A		DIMENSIONS (HxWxD)	15"x16.8"x11"	WEIGHT	94.6 lbs	CONNECTOR TYPE	4.3-10 RF CONNECTOR	INPUT VOLTAGE	-48VDC (-36 to 58 VDC)	<table border="1" style="width:100%; border-collapse: collapse;"> <tr><td colspan="2" style="text-align: center;">SAMSUNG - MID BAND SFG-ARR3KM01D1_RF4451D-70A</td></tr> <tr><td>DIMENSIONS (HxWxD)</td><td>15"x15"x8.9"</td></tr> <tr><td>WEIGHT</td><td>61.3 lbs</td></tr> <tr><td>CONNECTOR TYPE</td><td>4.3-10 RF CONNECTOR</td></tr> <tr><td>INPUT VOLTAGE</td><td>(-36 to 58 VDC)</td></tr> </table>  <p style="text-align: center;">RRH DETAIL</p> <p style="text-align: right;">NO SCALE 5</p>	SAMSUNG - MID BAND SFG-ARR3KM01D1_RF4451D-70A		DIMENSIONS (HxWxD)	15"x15"x8.9"	WEIGHT	61.3 lbs	CONNECTOR TYPE	4.3-10 RF CONNECTOR	INPUT VOLTAGE	(-36 to 58 VDC)	<table border="1" style="width:100%; border-collapse: collapse;"> <tr><td colspan="2" style="text-align: center;">RAYCAP RDIDC-3045-PF-48 SURGE PROTECTION DEVICE (OVP)</td></tr> <tr><td>DIMENSIONS (HxWxD)</td><td>19"x16.21"x8.64"</td></tr> <tr><td>WEIGHT</td><td>21 lbs</td></tr> </table>  <p style="text-align: center;">SURGE PROTECTION DEVICE (OVP) DETAIL</p> <p style="text-align: right;">NO SCALE 6</p>	RAYCAP RDIDC-3045-PF-48 SURGE PROTECTION DEVICE (OVP)		DIMENSIONS (HxWxD)	19"x16.21"x8.64"	WEIGHT	21 lbs	
SAMSUNG - LOW BAND SFG-ARR3J601D1_RF4450T-71A																													
DIMENSIONS (HxWxD)	15"x16.8"x11"																												
WEIGHT	94.6 lbs																												
CONNECTOR TYPE	4.3-10 RF CONNECTOR																												
INPUT VOLTAGE	-48VDC (-36 to 58 VDC)																												
SAMSUNG - MID BAND SFG-ARR3KM01D1_RF4451D-70A																													
DIMENSIONS (HxWxD)	15"x15"x8.9"																												
WEIGHT	61.3 lbs																												
CONNECTOR TYPE	4.3-10 RF CONNECTOR																												
INPUT VOLTAGE	(-36 to 58 VDC)																												
RAYCAP RDIDC-3045-PF-48 SURGE PROTECTION DEVICE (OVP)																													
DIMENSIONS (HxWxD)	19"x16.21"x8.64"																												
WEIGHT	21 lbs																												
<table border="1" style="width:100%; border-collapse: collapse;"> <tr><td colspan="2" style="text-align: center;">PCTEL GPSGL-TMG-SPI-40NCB</td></tr> <tr><td>DIMENSIONS (DIAxH) MM/INCH</td><td>81x184mm 3.2"x7.25"</td></tr> <tr><td>WEIGHT W/ACCESSORIES</td><td>0.75 lbs</td></tr> <tr><td>CONNECTOR</td><td>N-FEMALE</td></tr> <tr><td>FREQUENCY RANGE</td><td>1500 ± 30MHz</td></tr> </table>  <p style="text-align: center;">GPS DETAIL</p> <p style="text-align: right;">NO SCALE 7</p>	PCTEL GPSGL-TMG-SPI-40NCB		DIMENSIONS (DIAxH) MM/INCH	81x184mm 3.2"x7.25"	WEIGHT W/ACCESSORIES	0.75 lbs	CONNECTOR	N-FEMALE	FREQUENCY RANGE	1500 ± 30MHz	<table border="1" style="width:100%; border-collapse: collapse;"> <tr><td colspan="2" style="text-align: center;">DISH Wireless L.L.C. DRIP BOX</td></tr> <tr><td>DIMENSIONS (HxWxD)</td><td>10-1/4" x 5-5/8" x 4-3/8"</td></tr> <tr><td>ESTIMATED WEIGHT</td><td><5 lbs</td></tr> </table>  <p style="text-align: center;">DISH Wireless L.L.C. DRIP BOX DETAIL</p> <p style="text-align: right;">NO SCALE 8</p>	DISH Wireless L.L.C. DRIP BOX		DIMENSIONS (HxWxD)	10-1/4" x 5-5/8" x 4-3/8"	ESTIMATED WEIGHT	<5 lbs	<p style="text-align: center;">NOT USED</p> <p style="text-align: right;">NO SCALE 9</p>											
PCTEL GPSGL-TMG-SPI-40NCB																													
DIMENSIONS (DIAxH) MM/INCH	81x184mm 3.2"x7.25"																												
WEIGHT W/ACCESSORIES	0.75 lbs																												
CONNECTOR	N-FEMALE																												
FREQUENCY RANGE	1500 ± 30MHz																												
DISH Wireless L.L.C. DRIP BOX																													
DIMENSIONS (HxWxD)	10-1/4" x 5-5/8" x 4-3/8"																												
ESTIMATED WEIGHT	<5 lbs																												

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

DRAWN BY: MFR CHECKED BY: MER APPROVED BY: SNA

RFDS REV #: 0, DATE: 1/27/2025

ZONING DOCUMENTS

REV	DATE	DESCRIPTION
A	02/24/25	ISSUED FOR ZONING SUBMISSION

A&E PROJECT NUMBER
BOBOS01099D
115 ONAMOG ST WT

DISH Wireless L.L.C.
PROJECT INFORMATION
BOBOS01099D
115 ONAMOG ST
MARLBOROUGH, MA 01752
MIDDLESEX COUNTY

SHEET TITLE
EQUIPMENT DETAILS

SHEET NUMBER
Z-5

