

CITY OF CAMBRIDGE

BOARD OF ZONING APPEAL

831 Massachusetts Avenue, Cambridge MA 02139

617-349-6100

OFFICE OF THE CITY CLERK CAMBRIDGE, MASSACHUSETTS

BZA Application Form

BZA Number: 1172523

(Zanaral	Informa	tion
General	IIIIOIIIIa	LIOII

The undersigned hereby petitions the Board of Zoning Appeal for the following:					
Special Permit:X	Variance:	Appeal:			
PETITIONER: Tp/p Kendall Square L	LC C/O NB+C				
PETITIONER'S ADDRESS: 300 Unico	orn Park Unit 501, Woburn, MA 0180)1			
LOCATION OF PROPERTY: 350 Third St , Cambridge, MA					
TYPE OF OCCUPANCY: R1 ZONING DISTRICT: O3A/ PUD3/ PUD-CDK					
REASON FOR PETITION:					
/Telecommunication Facility (antenna)/					
DESCRIPTION OF PETITIONER'S PROPOSAL:					

DISH is proposing to install (3) antennas facade mounted at a height of 250'. These (3) antennas will be accompanied by (2) Remote Radios each for a total of (6) Radio Units. There will be (1) antenna each on the West, North and East sides of the building. The antennas and radios will require one hybrid fiber cable per sector for a total of (3) hybrid cables. The power cables will run in the same path/cable tray as the fiber cables. Ground equipment will be located on a 5'x7' steel platform on the rooftop which will be set back from the roof edge making it not visible from ground perspective. Power will be pulled from an existing electrical room within the existing structure of the building. The purpose of this location is to provide cellular coverage to the immediate and surrounding areas for DISH customers.

SECTIONS OF ZONING ORDINANCE CITED:

Article: 4.000 Section: 4.32.g.1 & 4.40 (Footnote 49) (Telecommunication Facility).

Article: 10.000 Section: 10.40 (Special Permit).

Article: 6409 Section: Federal Middle Class Tax Relief Act (Spectrum Act).

Original Signature(s):

(Print Name)

Petitioner (s) / Owner)

Address:

Tel. No.

413 281 6047

E-Mail Address:

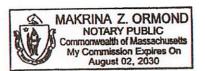
cmilan@nbcllc.com

BZA APPLICATION FORM - OWNERSHIP INFORMATION

To be completed by OWNER, signed before a notary and returned to The Secretary of the Board of Zoning Appeals.

I/We TPIP Kendall Sq / LC
Address: 350 third street Cambridge MA 02142
State that I/We own the property located at 350 third St Cambridge
which is the subject of this zoning application.
The record title of this property is in the name of <u>Residential Tower</u>
Apartment Unit LLC
*Pursuant to a deed of duly recorded in the date 3/14/2007, Middlesex South County Registry of Deeds at Book 49/26, Page 3/8; or Middlesex Registry District of Land Court, Certificate No. 46472. Book 49/26 Page 3/68
SIGNATURE BY LAND OWNER OR AUTHORIZED TRUSTEE, OFFICER OR AGENT* *Written evidence of Agent's standing to represent petitioner may be requested.
Commonwealth of Massachusetts, County of South Middle Sex
The above-name Kivk Bradford personally appeared before me,
this 18th of July, 20 25, and made oath that the above statement is true. Notary
My commission expires August 02, 2030 (Notary Seal).

 If ownership is not shown in recorded deed, e.g. if by court order, recent deed, or inheritance, please include documentation.





NB+C Engineering Services

Proposed Rooftop Antenna Installation

Prepared for Dish Wireless

SITE INFORMATION

Address

350 Third Street

Cambridge, MA 02142, Middlesex County

Latitude: 42.363667° Longitude: -71.083028°

Dish Site Number

BOBOS00100D

NB+C Project Number

100753

Date

October 30, 2023

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1.0 INTRODUCTION

The existing structure is a 235'-0" (±) tall building located in Cambridge, MA with a penthouse and screen walls reaching to 255'-6". Dish has proposed to install the equipment as listed in Table 1 below. As per your request, **Network Building + Consulting Engineering Services ("NB+C ES")** has performed a structural analysis to determine if the loads induced due to the proposed installation can be safely supported by the existing building and to verify if the structure is in compliance with the applicable codes and standards. Information we have received and used for this analysis includes:

- Preliminary Construction Drawings prepared by NB+C ES dated September 29, 2023
- Site Photos and Notes taken by NB+C ES Personnel dated September 13, 2023
- Building Framing Plans by CBT, Inc. dated April 16, 2004

2.0 APPURTENANCE LOADING

Table 1 - Final Antenna, Cable and Equipment Information

Mounting		I mai Antenna, Gabie and Equipment informa		
Level (ft)	Quantity	Equipment Items Carri		Feed Line (in)
	3	JMA MX08FR0665-21 Antennas		
	3	Samsung RF4451D-70A RRHs		
250.0	3	Samsung RF4450T-71A RRHs		
	3	Raycap RDIDC-3045-PF-48 OVPs		(3) DC Power
	1	Charles Industry Hex Cube PM639155N4	DIO!!	
	1	Transformer	DISH Wireless	Cables (3) Fiber
Rooftop Level	1	Zayo 5RU Fiber NID Enclosure		Trunk
	1 Raycap PPC RDIAC-2465-P-240-MTS			
	1	Eaton Meter Socket	-	
	1	Charles CFit-PF2020DSH1 Fiber Telco Enclosure		

3.0 ASSUMPTIONS

This report is based on the theoretical capacity of the existing building structural elements and is not an assessment of the overall suitability of the existing Structure or its components for any particular use other than specified here in this report:

- This report makes no warranties, expressed and/or implied, and disclaims any liability arising from material, fabrication and erection of the existing structure or proposed equipment, and any other proposed components or appurtenances.
- All proposed antennas, mounts, coaxial cable, and appurtenances are assumed to be properly installed and configured according to manufacturer requirements.
- All existing structural elements are assumed to be in place and in good condition as
 evident by site audit photos and visual site observations and were previously designed
 and constructed in accordance with applicable codes and standards.
- Contractor to verify existing site conditions including the antenna mount connections to
 existing exterior wall and antenna locations prior to fabrication and construction. In the
 event the existing conditions are different than the assumptions made in this report, this
 must be brought to the structural engineer's attention before proceeding any further with
 bidding, fabrication and/or erection.
- Roof framing is based upon building plans by CBT, Inc. dated April 16, 2004.
- Based on load tables from New Millenium Building Systems, the 11" composite steel decking is assumed to have an allowable safe load limit of 400 psf.

4.0 APPLICABLE CODES AND STANDARDS

The existing structure was analyzed/designed per the provisions of following applicable codes and standards:

- The Massachusetts State Building Code 780 CMR, Incorporating the 2015 International Building Code
- ANSI/TIA-222-G Structural Standards for Antenna Supporting Structures and Antennas
- Minimum Design Loads for Buildings and Other Structures ASCE/SEI 7-10
- AISC Manual of Steel Construction, 14th Edition ANSI/AISC 360-10
- 2015 International Existing Building Code

5.0 ANALYSIS

Design Loads:

• Ultimate wind speed: 128 mph

Risk Category: II

• Exposure: C

Roof Dead Load: 10 psfRoof Live Load: 20 psfGround Snow Load: 40 psf

6.0 CONCLUSIONS & RECOMMENDATIONS

Based on the performed analysis of this structure for applied gravity and lateral loads, the proposed structures were determined to have <u>adequate</u> structural capacity to support the proposed Dish telecommunication appurtenances and are in compliance with building codes and standards listed in this report.

The proposed antennas, RRHs and OVP device at Alpha, Beta and Gamma sectors will be mounted to the existing screen walls. The proposed installation is located within the existing building profile and does not result in an increase in lateral loading to the structure. Additionally, the installation adds insignificant dead loading to the screen wall structure. Therefore, the existing screen walls are deemed adequate to support the proposed loading by engineering judgement.

The proposed equipment platform will be located at the rooftop level of the building. The steel roof structure supporting the proposed platform was determined to have sufficient capacity to support the proposed loading and will be stressed to a maximum of **69**% of its theoretical capacity. Refer to Appendix A of this report for detailed calculations.

The overall increase in the effective projected wind area and the gravity load on the existing building structure due to the proposed installation is less than 10% and 5% respectively, which is deemed acceptable per Section 1103.3 of IEBC 2015. Hence, a global analysis of the existing building was not performed.

The conclusions reached by **NB+C ES** in this report are only applicable for the previously mentioned existing structural members supporting the Dish telecommunication antennas and support frame. Further, no structural qualification is made or implied by this report for existing structural members not supporting the proposed equipment and supporting frames.

NB+C Engineering Services, LLC

Prepared by: Linda Gallagher, E.I.T.

Respectfully submitted by:

Krupakaran Kolandaivelu, P.E. Vice President of Engineering MA PE License # 50019



APPENDIX A: CALCULATIONS

Date:	
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BZA Application Form

DIMENSIONAL INFORMATION

Applicant:
Location:

Tp/p Kendall Square LLC

350 Third St, Cambridge, MA

Phone:

413 281 6047

Present Use/Occupancy: R1

Zone: O3A/ PUD3/ PUD-CDK

Requested Use/Occupancy: Wireless Telecom

		Existing Conditions	Requested Conditions	Ordinance Requirements	
TOTAL GROSS FLOOR AREA:		0	0	0	(max.)
LOT AREA:		0	 0	0	(min.)
RATIO OF GROSS FLOOR AREA TO LOT AREA: ²		0	0	0	
LOT AREA OF EACH DWELLING UNIT		0	0	0	
SIZE OF LOT:	WIDTH	0	0	0	
	DEPTH	0	0	0	
SETBACKS IN FEET:	FRONT	0	0	0	
	REAR	0	0	0	
	LEFT SIDE	0	0	0	
	RIGHT SIDE	0	0	0	
SIZE OF BUILDING:	HEIGHT	254	0	0	
	WIDTH	0	0	0	
	LENGTH	0	0	0	
RATIO OF USABLE OPEN SPACE TO LOT AREA:		0	0	0	
NO. OF DWELLING UNITS:		0	0	0	
NO. OF PARKING SPACES:		0	0	0	
NO. OF LOADING AREAS:		0	0	0	
DISTANCE TO NEAREST BLDG. ON SAME LOT		NA	NA	NA	

Describe where applicable, other occupancies on the same lot, the size of adjacent buildings on same lot, and type of construction proposed, e.g; wood frame, concrete, brick, steel, etc.:

NA

- 1. SEE CAMBRIDGE ZONING ORDINANCE ARTICLE 5.000, SECTION 5.30 (DISTRICT OF DIMENSIONAL REGULATIONS).
- 2. TOTAL GROSS FLOOR AREA (INCLUDING BASEMENT 7'-0" IN HEIGHT AND ATTIC AREAS GREATER THAN 5')
 DIVIDED BY LOT AREA.
- 3. OPEN SPACE SHALL NOT INCLUDE PARKING AREAS, WALKWAYS OR DRIVEWAYS AND SHALL HAVE A MINIMUM DIMENSION OF 15'.



2025 SEP -8 PM 3: 06

OFFICE OF THE CITY CLERK CAMBRIDGE, MASSACHUSETTS

September 4, 2025

DISH Wireless Site ID: BOBOS00100D

Address: 350 Third St, Cambridge MA

On behalf of DISH Wireless I would like to withdraw without prejudice our application for the wireless telecom installation located at 350 Third St in Cambridge MA.

Sincerely,

Corey Milan

Network Building + Consulting, LLC

dish wireless...

DISH Wireless L.L.C. SITE ID:

BOBOS00100D

DISH Wireless L.L.C. SITE ADDRESS:

350 THIRD ST **CAMBRIDGE, MA 02142**

MASSACHUSETTS CODE COMPLIANCE

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:

MECHANICAL

MA STATE BUILDING CODE, 9TH EDITION (780 CMR)/2015 IBC W/ AMENDMENTS MECHANICAL CODE 2015 OF MASSACHUSETTS/2015 IMC W/ AMENDMENTS MA ELECTRICAL CODE/2020 NEC W/ AMENDMENTS

	SHEET INDEX			
SHEET NO.	SHEET TITLE			
T-1	TITLE SHEET			
A-1	BUILDING PLAN			
A-2	ANTENNA PLAN, ELEVATION AND SCHEDULE			
A-3	BUILDING ELEVATION			
A-4	EQUIPMENT PLATFORM AND H-FRAME DETAILS			
A-5	EQUIPMENT DETAILS			
A-6	EQUIPMENT DETAILS			
A-7	EQUIPMENT DETAILS			
E-1	ELECTRICAL/FIBER ROUTE PLAN AND NOTES			
E-2	ELECTRICAL DETAILS			
E-3	ELECTRICAL ONE-LINE & PANEL SCHEDULE			
G-1	GROUNDING PLANS AND NOTES			
G-2	GROUNDING DETAILS			
G-3	GROUNDING DETAILS			
RF-1	RF CABLE COLOR CODE			
GN-1	LEGEND AND ABBREVIATIONS			
GN-2	RF SIGNAGE			
GN-3	GENERAL NOTES			
GN-4	GENERAL NOTES			
GN-5	GENERAL NOTES			

SCOPE OF WORK

THIS IS NOT AN ALL INCLUSIVE LIST. CONTRACTOR SHALL UTILIZE SPECIFIED EQUIPMENT PART OR ENGINEER APPROVED EQUIVALENT. CONTRACTOR SHALL VERIFY ALL NEEDED EQUIPMENT TO PROVIDE A FUNCTIONAL SITE. THE PROJECT GENERALLY CONSISTS OF THE FOLLOWING:

SECTOR SCOPE OF WORK:

- INSTALL (3) PROPOSED PANEL ANTENNAS (1 PER SECTOR)
 INSTALL (9) PROPOSED ANTENNA MOUNTS (3 PER SECTOR)

- INSTALL PROPOSED JUMPERS
 INSTALL (6) PROPOSED RRUs (2 PER SECTOR)
- INSTALL (3) PROPOSED OVER VOLTAGE PROTECTION DEVICE (OVP) (1 PER SECTOR)
 INSTALL (3) PROPOSED DC POWER CABLES (1 PER SECTOR)
- INSTALL (3) PROPOSED FIBER TRUNKS (1 PER SECTOR) INSTALL PROPOSED CABLE LADDER TRAY OR CABLE TRAY

- ROOFTOP SCOPE OF WORK:
 INSTALL (1) PROPOSED METAL PLATFORM WITH H-FRAME
- INSTALL (1) PROPOSED CABLE LADDER TRAY OR CABLE TRAY
- (1) PROPOSED BBU IN CABINET (1) PROPOSED EQUIPMENT CABINET INSTALL INSTALL
- PROPOSED NEMA 3 TELCO-FIBER BOX
- INSTALL (1) PROPOSED GPS UNIT
- PROPOSED GROUNDING CONDUIT
- INSTALL PROPOSED POWER CONDITIE
- INSTALL (1) PROPOSED FIBER CONDUIT
- PROPOSED TRANSFORMER
- INSTALL (1) PROPOSED METER
- INSTALL (2) POWER BOOSTERS IN CABINET

SITE PHOTO





UNDERGROUND SERVICE ALERT - 811 DIG SAFE UTILITY NOTIFICATION CENTER OF MASSACHUSETTS (888) 344-7233

WWW.DIGSAFE.COM CALL 3 WORKING DAYS UTILITY NOTIFICATION PRIOR TO CONSTRUCTION



GENERAL NOTES

THE FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. A TECHNICIAN WILL VISIT THE SITE AS REQUIRED FOR ROUTINE MAINTENANCE. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT DISTURBANCE OR EFFECT ON DRAINAGE. NO SANITARY SEWER SERVICE, POTABLE WATER, OR TRASH DISPOSAL IS REQUIRED AND NO COMMERCIAL SIGNAGE IS PROPOSED.

11"x17" PLOT WILL BE HALF SCALE UNLESS OTHERWISE NOTED

CONTRACTOR SHALL VERIFY ALL PLANS, EXISTING DIMENSIONS, AND CONDITIONS ON THE JOB SITE, AND SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK.

DIRECTIONS

PROJECT DIRECTORY

ROOFTOP MGR: 5G LLC

SITE ACQUISITION:

DISH Wireless L.L.C.

5701 SOUTH SANTA FE DRIVE LITTLETON, CO 80120

8001 WISCONSIN AVE #600

100 APOLLO DRIVE, SUITE 303

KRISTEN LEDLIC

VICORIEN NDOUNOU

KLEDUC@NBCLLC.COM

AARON.CHANDLER@DISH.COI

VICTORIEN.NDOUNOUR@DISH.COM

CHELMSFORD, MA 01824

BETHESDA, MD 20814

SITE DESIGNER: NB+C ENGINEERING SERVICES, LLC

(978) 856-8308

CONSTRUCTION MANAGER: AARON CHANDLER

DIRECTIONS FROM BOSTON, LOGAN AIRPORT:

SITE INFORMATION

TP & P KENDALL SO LLC

ATLANTA GA. 30326

ROOFTOP

MIDDLESEX

42° 21' 49.2" N

42.363667 N

71.083028 W

CAMB-000014-000000-

001038-AP000000

EVERSOURCE

3399 PEACHTREE RD NE #600

PROPERTY OWNER:

LATITUDE (NAD 83):

ZONING DISTRICT:

PARCEL NUMBER:

OCCUPANCY GROUP:

CONSTRUCTION TYPE:

TELEPHONE COMPANY:

POWER COMPANY:

LONGITUDE (NAD 83): 71° 04' 58.9" W

ZONING JURISDICTION: CITY OF CAMBRIDGE

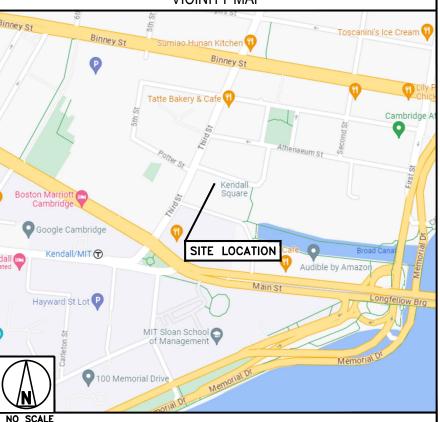
ADDRESS:

TOWER TYPE:

COUNTY:

GET ON I-90 W FROM TRANSPORTATION WAY. HEAD SOUTHEAST. SLIGHT RIGHT. USE ANY LANE TO TURN SLIGHTLY LEFT ONTO TRANSPORTATION WAY. TURN LEFT ONTO THE WILLIAMS TUNNEL RAMP TO I-90 W/I-93. FOLLOW I-90 W TO MA-30 W/COCHITUATE RD IN FRAMINGHAM. TAKE EXIT 117 FROM I-90 W. MERGE ONTO I-90 W. TAKE EXIT 117 TO MERGE ONTO MA-30 W/COCHITUATE RD TOWARD FRAMINGHAM. CONTINUE ON MA-30 W/COCHITUATE RD. TAKE CONCORD ST TO HOWARD ST. MERGE ONTO MA-30 W/COCHITUATE RD. USE
THE LEFT 2 LANES TO TURN LEFT ONTO CONCORD ST. TURN LEFT ONTO POND ST. TURN RIGHT AT THE 1ST
CROSS STREET ONTO GRANT ST. TURN LEFT ONTO HOWARD ST. DESTINATION WILL BE ON THE LEFT.

VICINITY MAP





NB+C ENGINEERING SERVICES, LLC. 100 APOLLO DRIVE





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:
KN	НН	DRG
RFDS REV	# :	N/A

CONSTRUCTION **DOCUMENTS**

	SUBMITTALS				
REV	DATE DESCRIPTION				
۰	11/29/2023	ISSUED FOR CONSTRUCTION			
1	08/13/24	REVISED ELECTRICAL			
	A&E PROJECT NUMBER				

100753

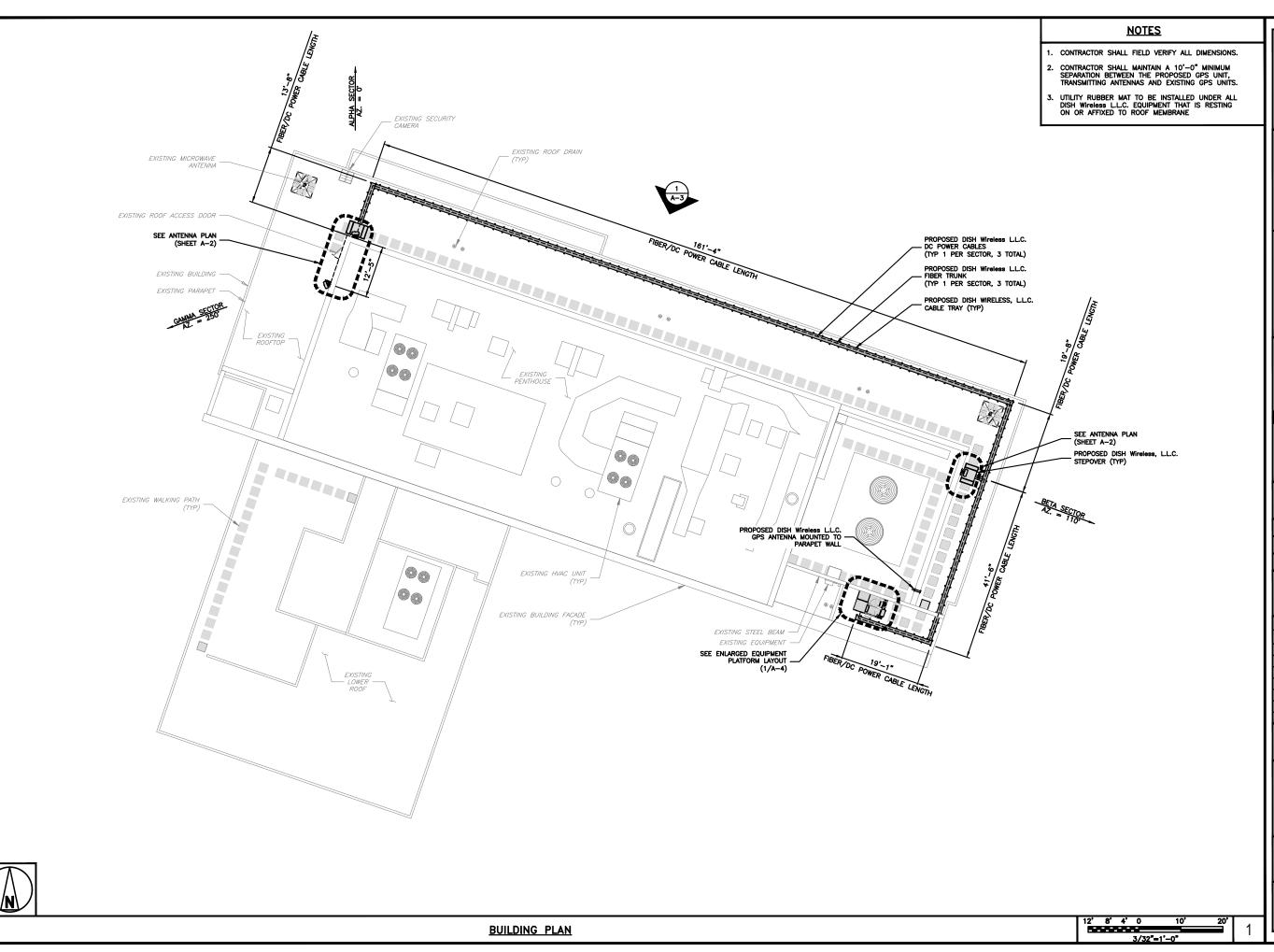
DISH Wireless L.L.C. PROJECT INFORMATION BOBOS00100D

350 THIRD STREET CAMBRIDGE, MA 02142

> SHEET TITLE TITLE SHEET

SHEET NUMBER

T-1





5701 SOUTH SANTA FE DRIVE LITTLETON, CO 80120



100 APOLLO DRIVE SUITE 303 CHELMSFORD, MA 01824 (978) 856-8308

SITE ID: 1040-PCPL 5G NOC: 240.274.2300

Op's Manager: Tucker Lahr Phone: (717) 658-2203 Email: tucker.lahr@5gllc.net



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DRAWN BY:	CHECKED BY:	APPROVED BY:	
KN	нн	DRG	
RFDS REV	# :	N/A	

CONSTRUCTION DOCUMENTS

	SUBMITTALS			
REV	DATE	DESCRIPTION		
•	11/29/2023	ISSUED FOR CONSTRUCTION		
	08/13/24	REVISED ELECTRICAL		
	A&E PROJECT NUMBER			

A&E PROJECT NUMBER

DISH Wireless L.L.C. PROJECT INFORMATION BOBOSO0100D

350 THIRD STREET CAMBRIDGE, MA 02142

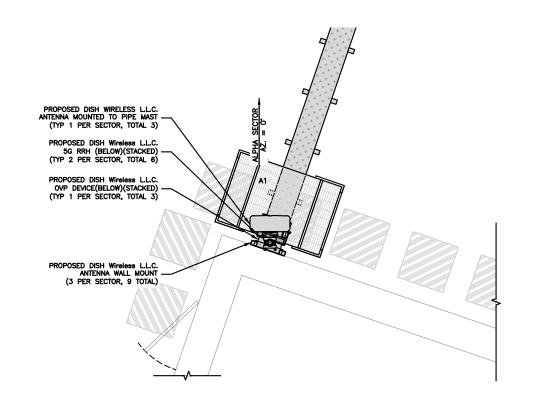
SHEET TITLE BUILDING PLAN

SHEET NUMBER

A-1

NOTES

- 1. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS.
- 2. ANTENNA SPECIFICATIONS REFER TO ANTENNA SCHEDULE AND TO FINAL CONSTRUCTION RFDS FOR ALL RF DETAILS
- 3. EXISTING EQUIPMENT OMITTED FOR CLARITY.
- ALPHA SECTOR SHOWN TYPICAL FOR BETA AND GAMMA SECTORS.

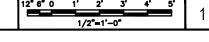




ANTENNA PLAN (TYPICAL PER SECTOR)

12"6"0 1' 2' 3' 4' 5' 6' 7'

3/8"=1'-0"



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 DRG RFDS REV #: N/A

OVP

NO SCALE

CONSTRUCTION DOCUMENTS

5701 SOUTH SANTA FE DRIVE LITTLETON, CO 80120

TOTALLY COMMITTED. **NB+C ENGINEERING SERVICES, LLC.**

100 APOLLO DRIVE SUITE 303 CHELMSFORD, MA 01824 (978) 856-8308

SITE ID: 1040-PCPL 5G NOC: 240.274.2300

Op's Manager: Tucker Lahr Phone: (717) 658-2203 Email: tucker.lahr@5glic.net

MANAGE

		SUBMITTALS
REV	DATE	DESCRIPTION
0	11/29/2023	ISSUED FOR CONSTRUCTION
1	08/13/24	REVISED ELECTRICAL
	A&E F	PROJECT NUMBER
I		

100753

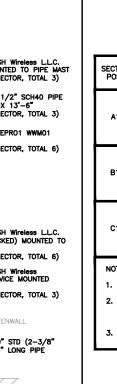
DISH Wireless L.L.C. PROJECT INFORMATION BOBOS00100D

350 THIRD STREET CAMBRIDGE, MA 02142

SHEET TITLE ANTENNA PLAN, ELEVATION AND SCHEDULE

SHEET NUMBER

A-2



SECTOR										
POS.	EXISTING OR PROPOSED	MANUFACTURER — MODEL NUMBER	TECH	AZIMUTH	RAD CENTER	FEED LINE TYPE AND LENGTH	MANUFACTURER — MODEL NUMBER	TECH	POS.	MANUFACTURER MODEL
A1	PROPOSED	COMMSCOPE FFVV-65B-R2	5G	ô	250'-0"	(1) 4AWG DC POWER CABLE (WITH BOOSTER) (1) FIBER TRUNK (LENGTH: 286'±)	SAMSUNG — MID BAND SFG-ARR3KM01DI/RF4451D-70A SAMSUNG — LOW BAND SFG-ARR3J601DI/RF4450T-71A	5G 5G	A1	RAYCAP RDIDC-3045- PF-48
B1	PROPOSED	COMMSCOPE FFW-65B-R2	5G	110*	250'-0"	(1) 8AWG DC POWER CABLE (1) FIBER TRUNK (LENGTH: 85'±)	SAMSUNG - MID BAND SFG-ARR3KM01DI/RF4451D-70A SAMSUNG - LOW BAND SFG-ARR3J601DI/RF4450T-71A	5G 5G	B1 B1	RAYCAP RDIDC-3045- PF-48
C1	PROPOSED	COMMSCOPE FFW-65B-R2	5G	250°	250'-0"	(1) 4AWG DC POWER CABLE (WITH BOOSTER) (1) FIBER TRUNK (LENGTH: 300'±)	SAMSUNG — MID BAND SFG-ARR3KM01DI/RF4451D-70A SAMSUNG — LOW BAND SFG-ARR3J601DI/RF4450T-71A	5G 5G	C1	RAYCAP RDIDC-3045- PF-48

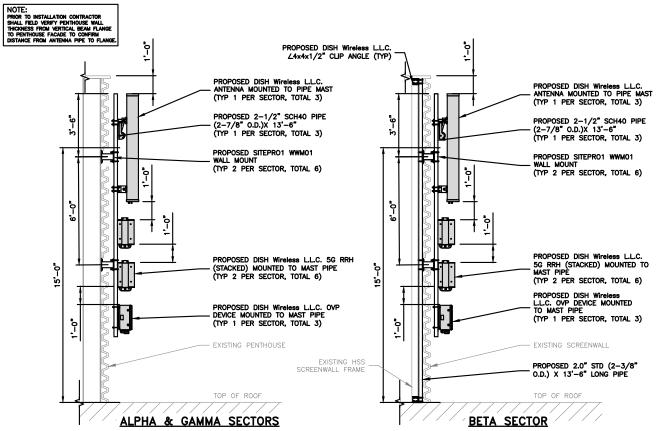
ANTENNA SCHEDULE

TRANSMISSION CABLE

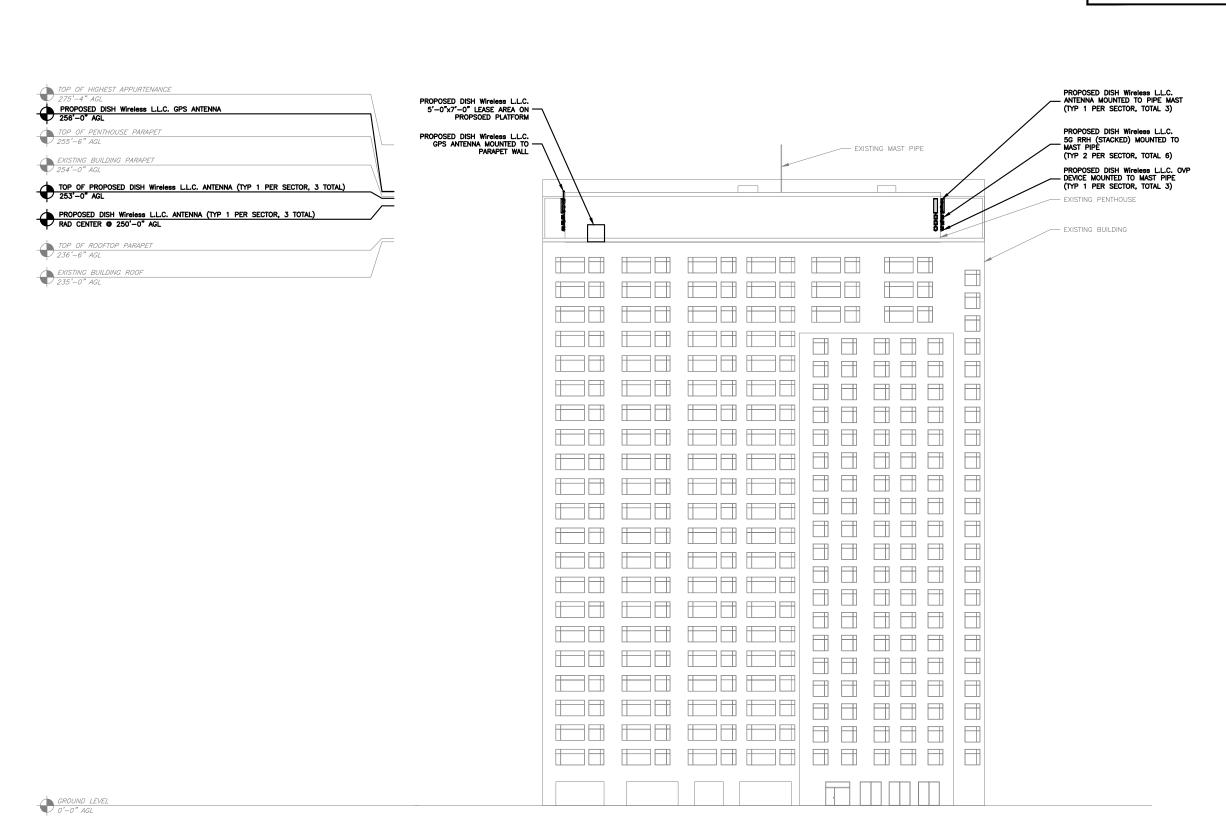
- 1. CONTRACTOR TO REFER TO FINAL CONSTRUCTION RFDS FOR ALL RF DETAILS.
- ANTENNA AND RRH MODELS MAY CHANGE DUE TO EQUIPMENT AVAILABILITY. ALL EQUIPMENT CHANGES MUST BE APPROVED AND REMAIN IN COMPLIANCE WITH THE PROPOSED DESIGN AND STRUCTURAL ANALYSES.

ANTENNA

3. RAYCAP POWERPLUS POWER BOOSTER TO BE INSTALLED WITHIN PROPOSED EQUIPMENT CABINET.



ANTENNA ELEVATION



BUILDING ELEVATION



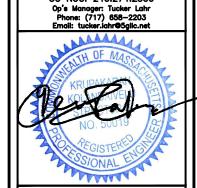
- CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS.
- CONTRACTOR SHALL MAINTAIN A 10'-0" MINIMUM SEPARATION BETWEEN THE PROPOSED GPS UNIT, TRANSMITTING ANTENNAS AND EXISTING GPS UNITS.



5701 SOUTH SANTA FE DRIVE LITTLETON, CO 80120



100 APOLLO DRIVE SUITE 303 CHELMSFORD, MA 01824 (978) 856-8308



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DRAWN BY:	CHECKED BY:	APPROVED BY:	
KN	НН	DRG	
RFDS REV ;	N/A		

CONSTRUCTION DOCUMENTS

	SUBMITTALS							
RE	/ DATE	DESCRIPTION						
▮	11/29/2023	ISSUED FOR CONSTRUCTION						
1	08/13/24	REVISED ELECTRICAL						
	A&E PROJECT NUMBER							

100753

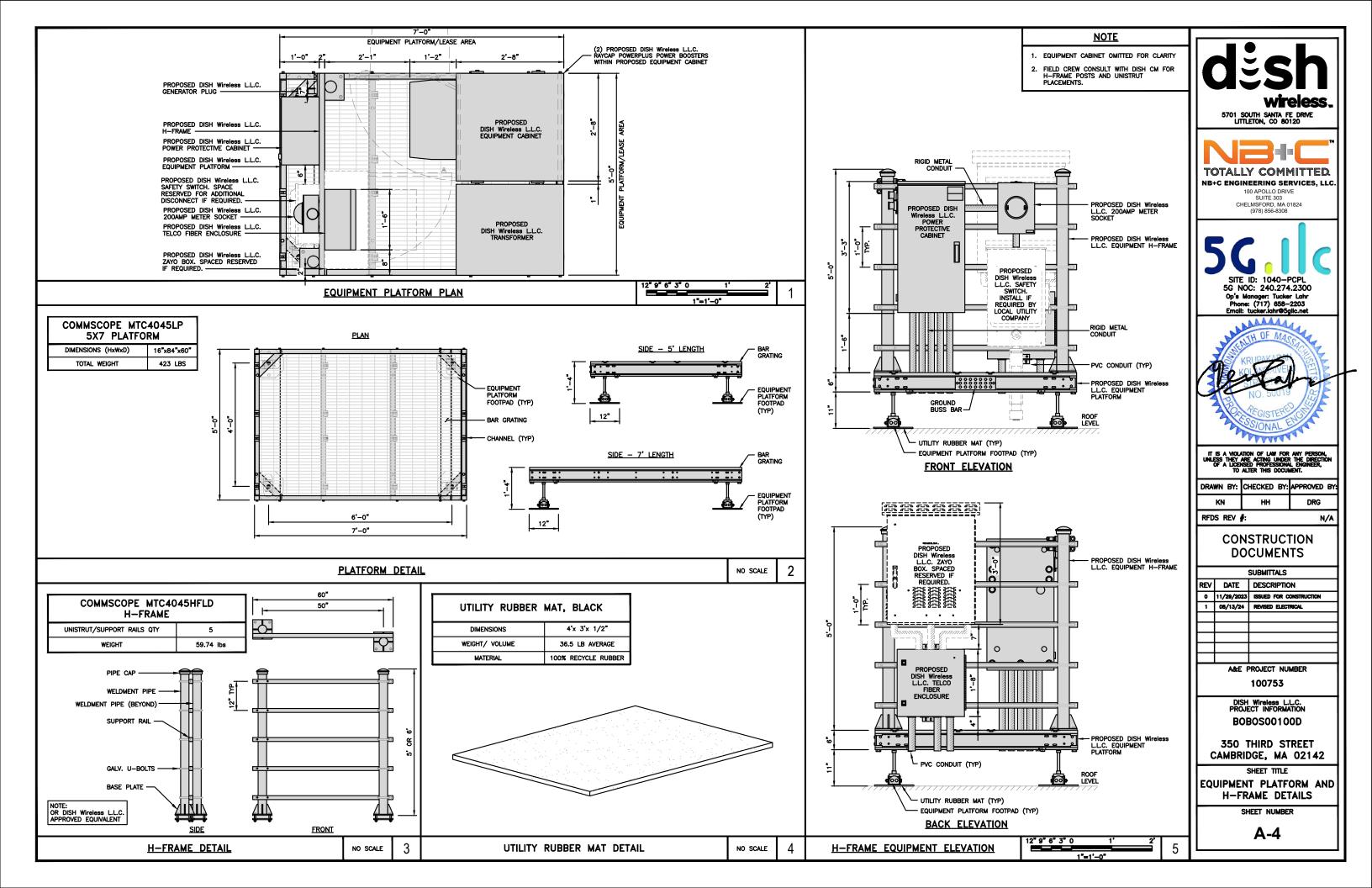
DISH Wireless L.L.C. PROJECT INFORMATION BOBOSO0100D

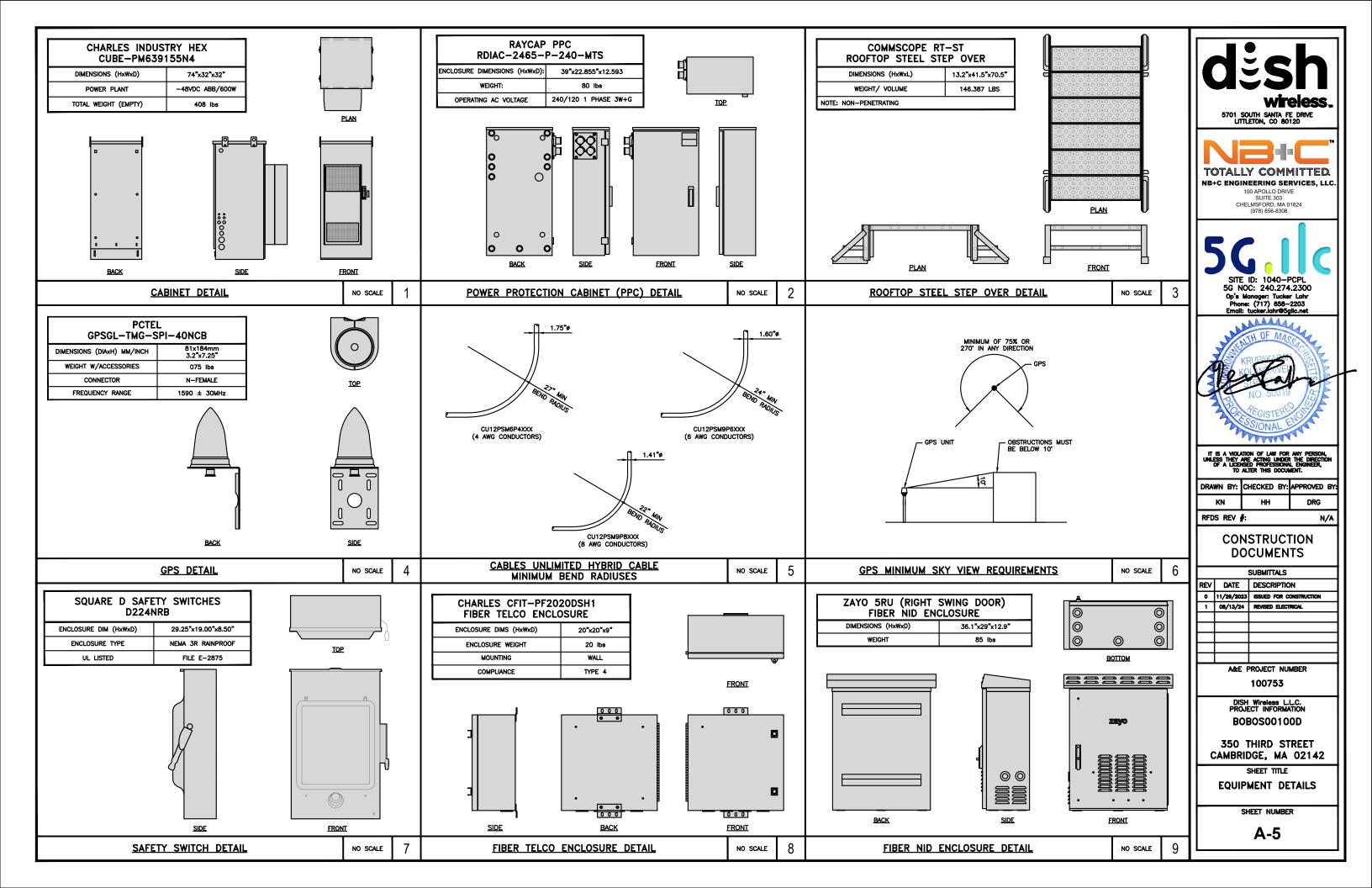
350 THIRD STREET CAMBRIDGE, MA 02142

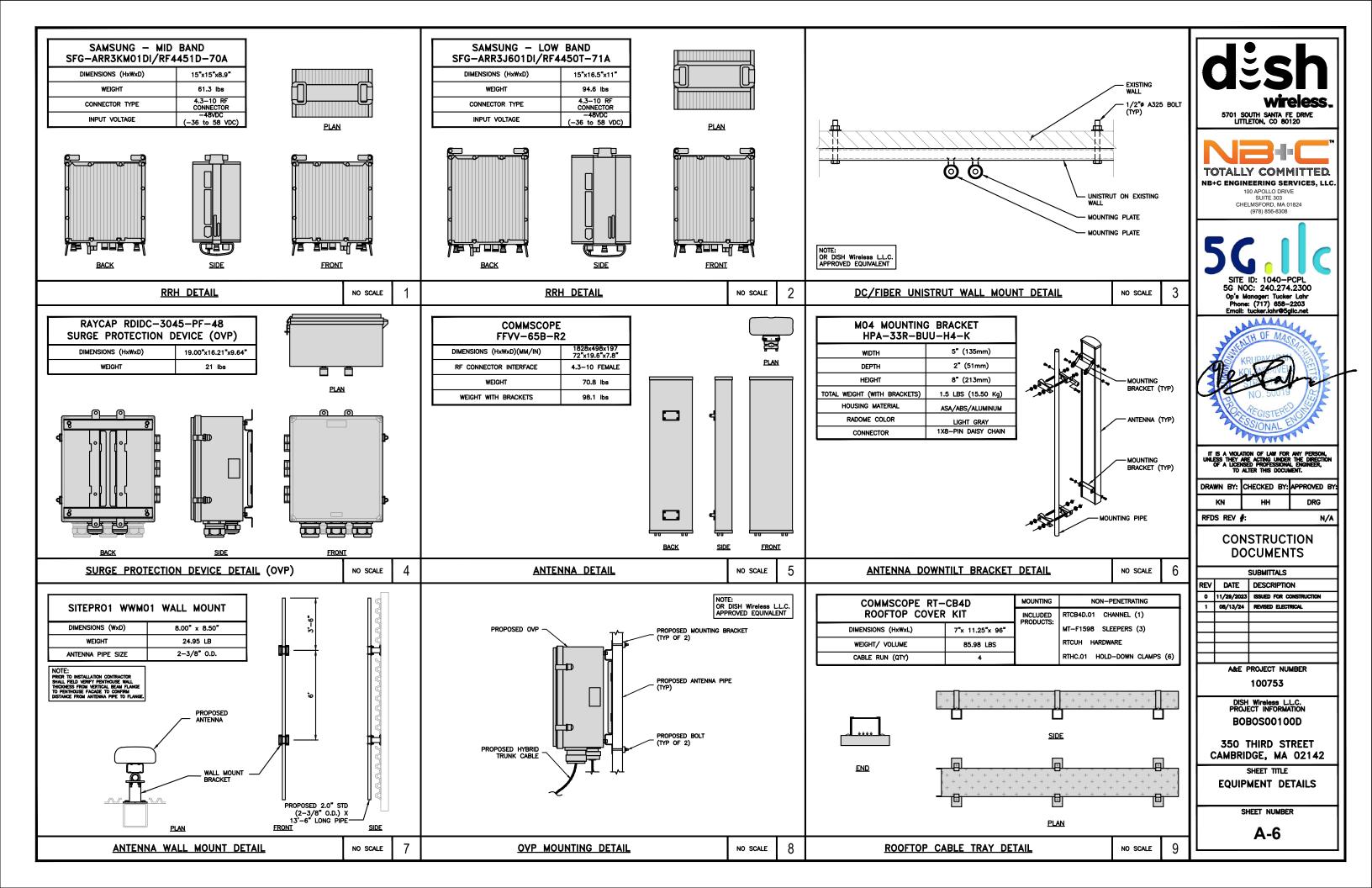
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BUILDING
ELEVATION

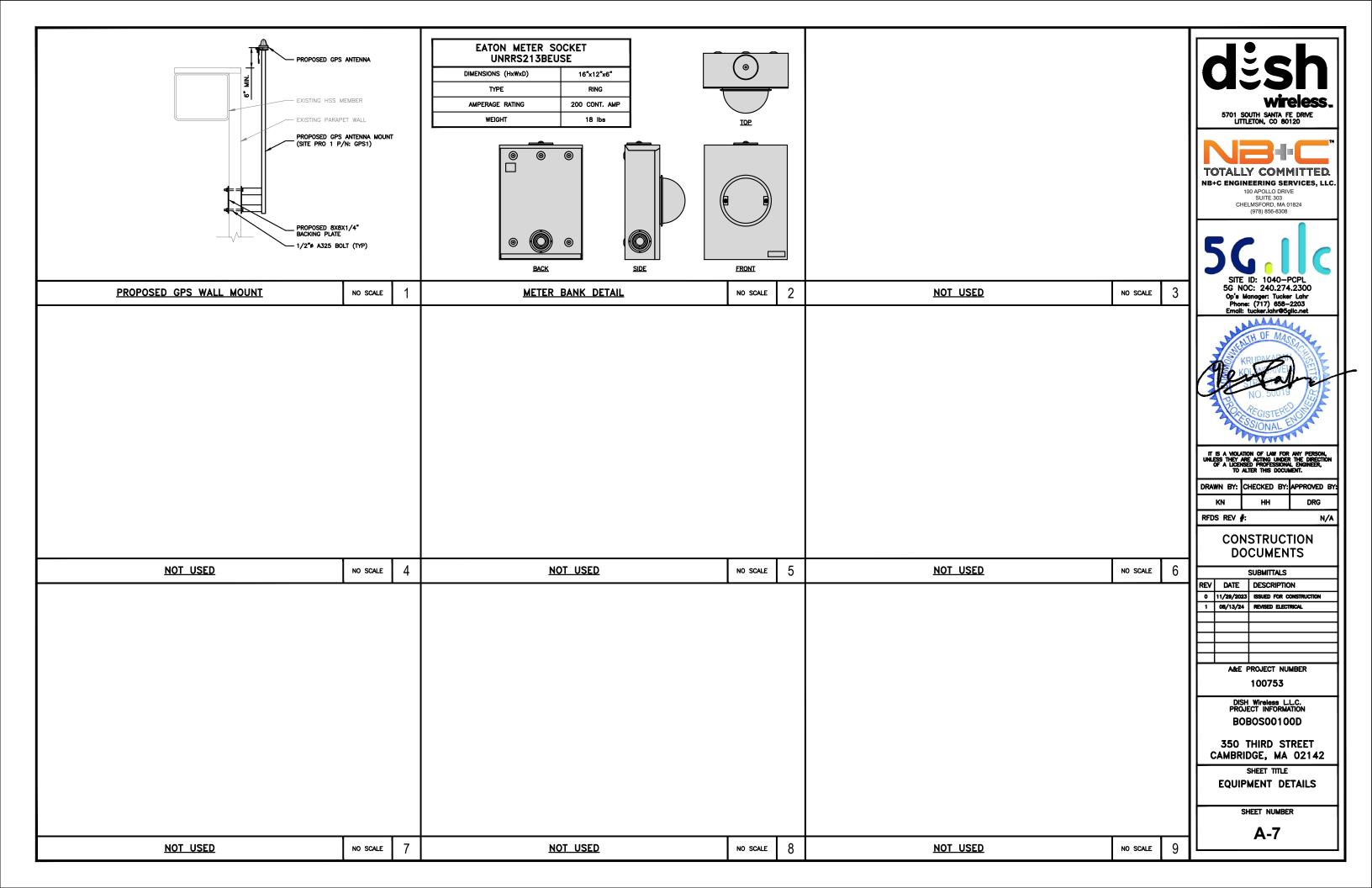
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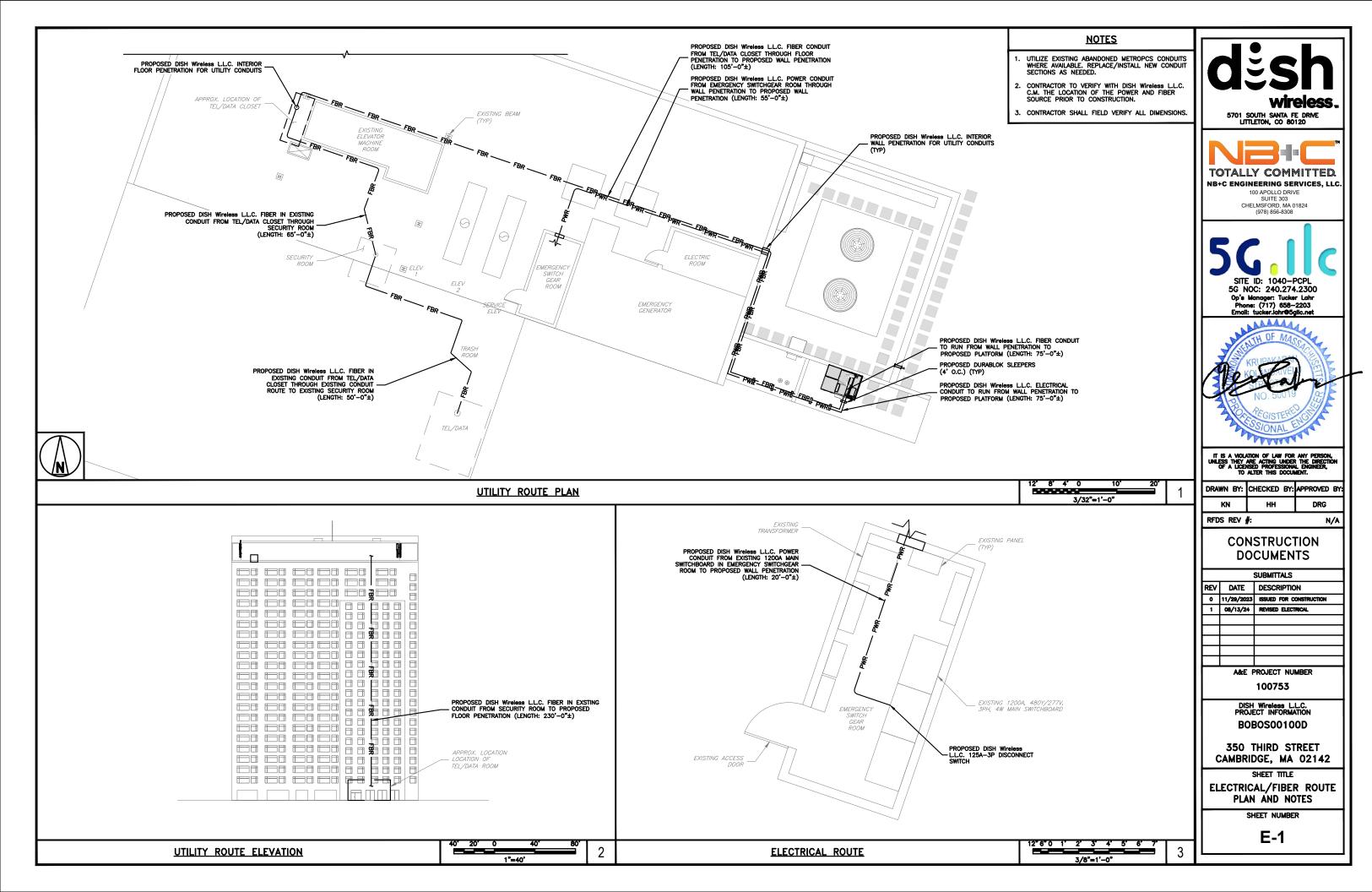
A-3

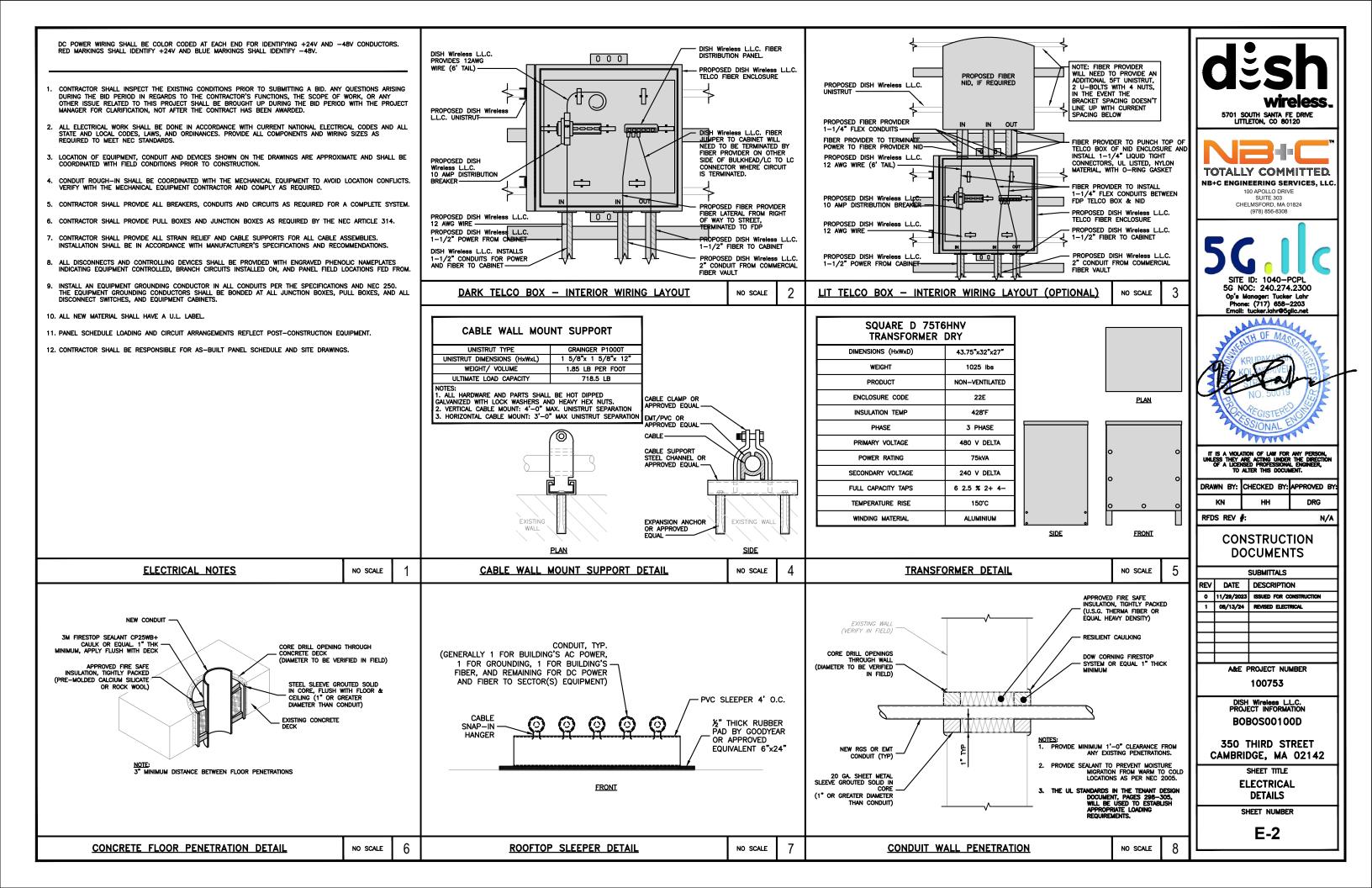


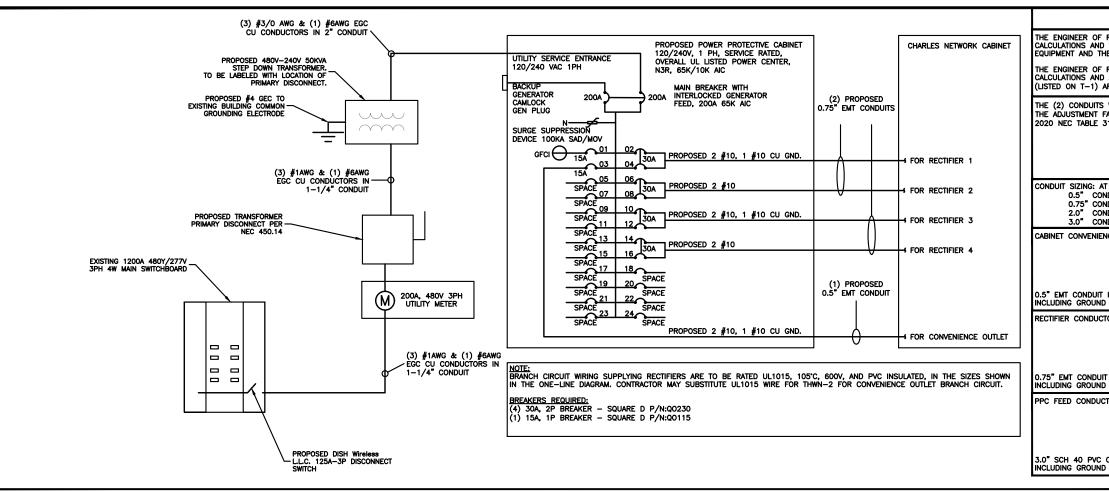












NOTES

THE ENGINEER OF RECORD HAS PERFORMED ALL REQUIRED SHORT CIRCUIT CALCULATIONS AND THE AIC RATINGS FOR EACH DEVICE IS ADEQUATE TO PROTECT THE EQUIPMENT AND THE ELECTRICAL SYSTEM.

THE ENGINEER OF RECORD HAS PERFORMED ALL REQUIRED VOLTAGE DROP CALCULATIONS AND ALL BRANCH CIRCUIT AND FEEDERS COMPLY WITH THE NEC (LISTED ON T-1) ARTICLE 210.19(A)(1) FPN NO. 4.

THE (2) CONDUITS WITH (4) CURRENT CARRYING CONDUCTORS EACH, SHALL APPLY THE ADJUSTMENT FACTOR OF 80% PER 2014/17 NEC TABLE 310.15(B)(3)(a) OR 2020 NEC TABLE 310.15(C)(1) FOR UL1015 WIRE.

> #12 FOR 15A-20A/1P BREAKER: 0.8 x 30A = 24.0A #10 FOR 25A-30A/2P BREAKER: 0.8 x 40A = 32.0A FOR 35A-40A/2P BREAKER: 0.8 x 55A = 44.0A #6 FOR 45A-60A/2P BREAKER: 0.8 x 75A = 60.0A

CONDUIT SIZING: AT 40% FILL PER NEC CHAPTER 9, TABLE 4, ARTICLE 358. 0.5" CONDUIT - 0.122 SQ, IN AREA

> 2.0" CONDUIT - 1.316 SQ, IN AREA 3.0" CONDUIT - 2.907 SQ. IN AREA

CABINET CONVENIENCE OUTLET CONDUCTORS (1 CONDUIT): USING THWN-2, CU.

#10 - 0.0211 SQ. IN X 2 = 0.0422 SQ. IN #10 - 0.0211 SQ. IN X 1 = 0.0211 SQ. IN <GROUND

O.5" EMT CONDUIT IS ADEQUATE TO HANDLE THE TOTAL OF (3) WIRES, INCLUDING GROUND WIRE, AS INDICATED ABOVE.

RECTIFIER CONDUCTORS (2 CONDUITS): USING UL1015, CU.

#10 - 0.0266 SQ. IN X 4 = 0.1064 SQ. IN #10 - 0.0082 SQ. IN X 1 = 0.0082 SQ. IN <BARE GROUND

0.75" EMT CONDUIT IS ADEQUATE TO HANDLE THE TOTAL OF (5) WIRES, INCLUDING GROUND WIRE, AS INDICATED ABOVE.

PPC FEED CONDUCTORS (1 CONDUIT): USING THWN, CU.

3/0 - 0.2679 SQ. IN X 3 = 0.8037 SQ. IN #6 - 0.0507 SQ. IN X 1 = 0.0507 SQ. IN <GROUND

= 0.8544 SQ. IN

3.0" SCH 40 PVC CONDUIT IS ADEQUATE TO HANDLE THE TOTAL OF (4) WIRES, INCLUDING GROUND WIRE, AS INDICATED ABOVE.

PPC ONE-LINE DIAGRAM

NO SCALE

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DRAWN BY: CHECKED BY: APPROVED BY DRG

5701 SOUTH SANTA FE DRIVE LITTLETON, CO 80120

TOTALLY COMMITTED.

NB+C ENGINEERING SERVICES, LLC.

100 APOLLO DRIVE SUITE 303 CHELMSFORD, MA 01824

(978) 856-8308

SITE ID: 1040-PCPL

5G NOC: 240.274.2300 Op's Manager: Tucker Lahr Phone: (717) 658–2203 Email: tucker.lahr@5gllc.net

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RFDS REV #:

CONSTRUCTION **DOCUMENTS**

N/A

	SUBMITTALS			
REV	DATE	DESCRIPTION		
0	11/29/2023	ISSUED FOR CONSTRUCTION		
1	08/13/24	REVISED ELECTRICAL		
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100753

DISH Wireless L.L.C. PROJECT INFORMATION BOBOS00100D

350 THIRD STREET CAMBRIDGE, MA 02142

SHEET TITLE ELECTRICAL ONE-LINE, FAULT CALCS & PANEL SCHEDULE

SHEET NUMBER

E-3

	PROPOSED CHARLES PANEL SCHEDULE											
LOAD SERVED	(WA	AMPS TTS)	TRIP	СК1 #	Р	HAS	E	CKT #	TRIP	VOLT (WA	TTS)	LOAD SERVED
	L1	L2								L1	L2	
PPC GFCI OUTLET	180		15A	1	2	Α	┷	2	30A	2880		ABB/GE INFINITY
CHARLES GFCI OUTLET		180	15A	3	Σ	В	\leq	4	301		2880	RECTIFIER 1
-SPACE-				5	Σ	Α	4	6	30A	2880		ABB/GE INFINITY
-SPACE-				7	Σ	В	7	8	JUA		2880	RÉCTIFIER 2
-SPACE-				9	Σ	Α	$\overline{\mathbf{A}}$	10	30A	2880		ABB/GE INFINITY
-SPACE-				11	7	В	\sim	12	JUA		2880	RÉCTIFIER 3
-SPACE-				13	Σ	Α	7	14	704	2880		ABB/GE INFINITY
-SPACE-				15	7	В	$\overline{}$	16	30A		2880	RÉCTIFIER 4
-SPACE-				17	7	Α	\sim	18				-SPACE-
-SPACE-				19	7	В	\sim	20				-SPACE-
-SPACE-				21	7	Α	\sim	22				-SPACE-
-SPACE-				23	Σ	В	2	24				-SPACE-
VOLTAGE AMPS	180	180								11520	11520	
200A MCB, 1¢, 24 SPACE, 120/240V		L1			L2							
MB RATING: 65,000 AIC		1170	0	1	170	0	VOLTAGE AMPS					
			98			98		AMPS				
			98		MAX	AMPS						
				1.	23			MAX	125%			

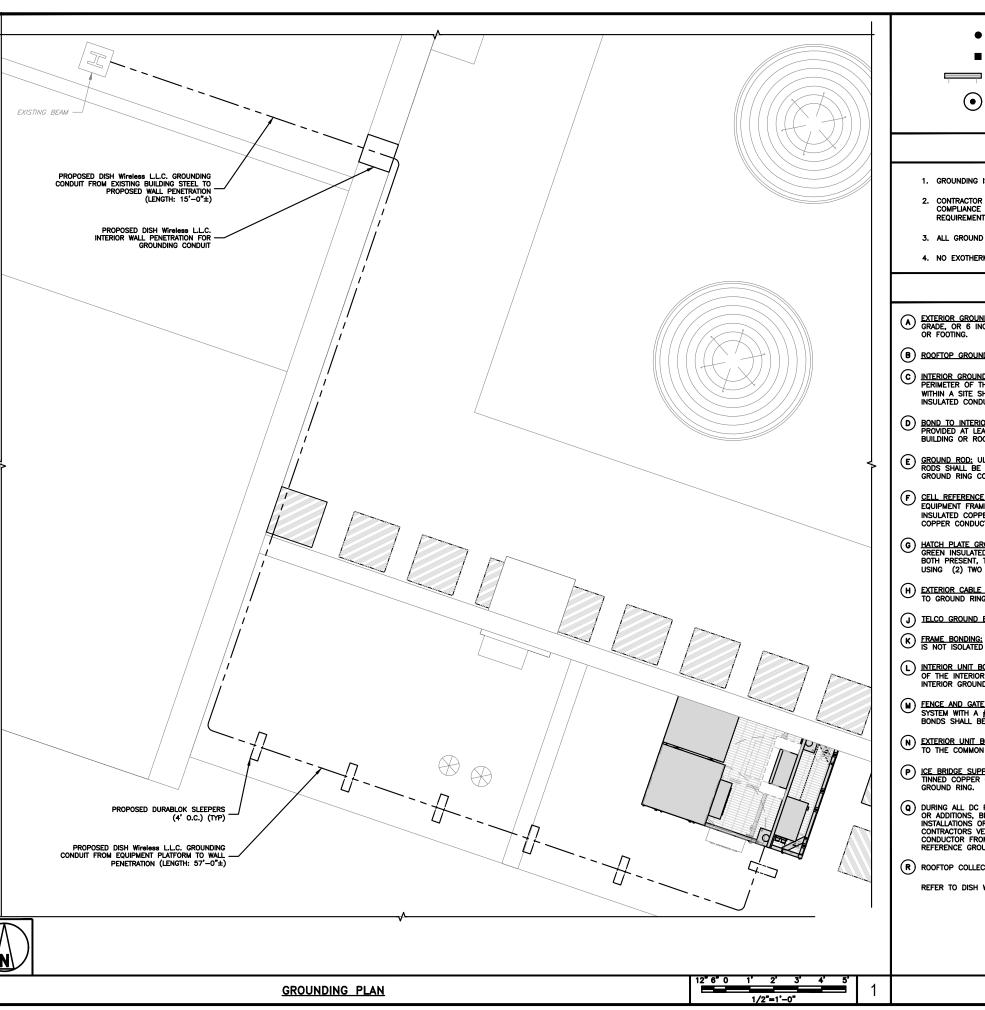
PANEL SCHEDULE

2

NO SCALE

NOT USED

NO SCALE



EXOTHERMIC CONNECTION

■ MECHANICAL CONNECTION

GROUND BUS BAR

GROUND ROD

TEST GROUND ROD WITH INSPECTION SLEEVE

---- #6 AWG STRANDED & INSULATED — · — · — #2 AWG SOLID COPPER TINNED

BUSS BAR INSULATOR

GROUNDING LEGEND

- GROUNDING IS SHOWN DIAGRAMMATICALLY ONLY.
- CONTRACTOR SHALL GROUND ALL EQUIPMENT AS A COMPLETE SYSTEM. GROUNDING SHALL BE IN COMPLIANCE WITH NEC SECTION 250 AND DISH Wireless L.L.C. GROUNDING AND BONDING REQUIREMENTS AND MANUFACTURER'S SPECIFICATIONS.
- 3. ALL GROUND CONDUCTORS SHALL BE COPPER; NO ALUMINUM CONDUCTORS SHALL BE USED.
- 4. NO EXOTHERMIC WELDING ON ROOFTOP

GROUNDING ROOFTOP KEY NOTES

- (A) EXTERIOR GROUND RING: #2 AWG SOLID COPPER, BURIED AT A DEPTH OF AT LEAST 30 INCHES BELOW GRADE, OR 6 INCHES BELOW THE FROST LINE AND APPROXIMATELY 24 INCHES FROM THE EXTERIOR WALL OR FOOTING.
- (B) ROOFTOP GROUND SYSTEM: THE GROUND SYSTEM USING MINIMUM #2 AWG SOLID COPPER CONDUCTORS.
- (C) Interior Ground Ring: #2 awg stranded green insulated copper conductor extended around the perimeter of the equipment area. All non-telecommunications related metallic objects found within a site shall be grounded to the interior ground ring with #6 awg stranded green
- (D) BOND TO INTERIOR GROUND RING: #2 AWG SOLID TINNED COPPER WIRE PRIMARY BONDS SHALL BE PROVIDED AT LEAST AT FOUR POINTS ON THE INTERIOR GROUND RING, LOCATED AT THE CORNERS OF THE BUILDING OR ROOM.
- $\stackrel{\textstyle (E)}{\textstyle {
 m CROUND\ ROD}}$ UL LISTED COPPER CLAD STEEL. MINIMUM 1/2'' DIAMETER BY EIGHT FEET LONG, GROUND RODS SHALL BE INSTALLED WITH INSPECTION SLEEVES. GROUND RODS SHALL BE DRIVEN TO THE DEPTH OF
- (F) CELL REFERENCE GROUND BAR (CRGB): POINT OF GROUND REFERENCE FOR ALL COMMUNICATIONS EQUIPMENT FRAMES. ALL BONDS ARE MADE WITH #2 AWG UNLESS NOTED OTHERWISE STRANDED GREEN INSULATED COPPER CONDUCTORS. BOND TO COMMON BUILDING GROUND SYSTEM WITH (2) #2 SOLID TINNED
- (G) HATCH PLATE GROUND BAR: BOND TO THE COMMON BUILDING GROUND SYSTEM WITH TWO #2 AWG STRANDED GREEN INSULATED COPPER CONDUCTORS. WHEN A HATCH-PLATE AND A CELL REFERENCE GROUND BAR ARE BOTH PRESENT, THE CROS MUST BE CONNECTED TO THE HATCH-PLATE AND TO THE INTERIOR GROUND RING USING (2) TWO #2 AWG STRANDED GREEN INSULATED COPPER CONDUCTORS EACH.
- (H) EXTERIOR CABLE ENTRY PORT GROUND BARS; LOCATED AT THE ENTRANCE TO THE CELL SITE ROOM. BOND TO GROUND RING WITH A #2 AWG SOLID TINNED COPPER CONDUCTORS WITH MECHANICAL CONNECTIONS.
- (J) TELCO GROUND BAR: BOND TO BOTH CELL REFERENCE GROUND BAR OR EXTERIOR GROUND RING.
- K FRAME BONDING: THE BONDING POINT FOR TELECOM EQUIPMENT FRAMES SHALL BE THE GROUND BUS THAT IS NOT ISOLATED FROM THE EQUIPMENTS METAL FRAMEWORK.
- (L) INTERIOR UNIT BONDS: METAL FRAMES, CABINETS AND INDIVIDUAL METALLIC UNITS LOCATED WITH THE AREA OF THE INTERIOR GROUND RING REQUIRE A #6 AWG STRANDED GREEN INSULATED COPPER BOND TO THE
- FENCE AND GATE GROUNDING: METAL FENCES SHALL BE BONDED TO THE COMMON BUILDING GROUND SYSTEM WITH A #2 AWG SOLID TINNED COPPER CONDUCTOR AT AN INTERVAL NOT EXCEEDING 25 FEET. BONDS SHALL BE MADE AT EACH GATE POST AND ACROSS GATE OPENINGS.
- (N) <u>Exterior unit Bonds</u>: Metallic objects, external to or mounted to the Building, shall be bonded to the common Building ground system. Using #2 tinned solid copper wire
- (P) <u>ICE BRIDGE SUPPORTS:</u> EACH ICE BRIDGE LEG SHALL BE BONDED TO THE GROUND RING WITH #2 AWG BARE TINNED COPPER CONDUCTOR. PROVIDE EXOTHERMIC WELDS AT BOTH THE ICE BRIDGE LEG AND BURIED GROUND RING.
- Q 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 SERVICE CONTRACTORS VERIFY ALL DC POWER SYSTEMS ARE EQUIPPED WITH A MASTER DC SYSTEM RETURN GROUND CONDUCTOR FROM THE DC POWER SYSTEM COMMON RETURN BUS DIRECTLY CONNECTED TO THE CELL SITE REFERENCE GROUND BAR
- (R) ROOFTOP COLLECTOR BUSS BAR IS TO BE MECHANICALLY BONDED TO COMMON BUILDING GROUND SYSTEM.

REFER TO DISH Wireless L.L.C. GROUNDING NOTES.



100 APOLLO DRIVE SUITE 303 CHELMSFORD, MA 01824 (978) 856-8308

SITE ID: 1040-PCPL 5G NOC: 240.274.2300 Op's Manager: Tucker Lahr Phone: (717) 658–2203 Email: tucker.lahr@5gllc.net



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DRAWN BY:	CHECKED BY:	APPROVED BY:	
KN	НН	DRG	
RFDS REV	# :	N/A	

CONSTRUCTION **DOCUMENTS**

	SUBMITTALS						
REV	DATE	DESCRIPTION					
•	11/29/2023	ISSUED FOR CONSTRUCTION					
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	A&E PROJECT NUMBER						

100753

DISH Wireless L.L.C. PROJECT INFORMATION BOBOS00100D

350 THIRD STREET CAMBRIDGE, MA 02142

SHEET TITLE **GROUNDING PLANS** AND NOTES

SHEET NUMBER

G-1

NO SCALE



EQUIPMENT CABINET OMITTED FOR CLARITY



5701 SOUTH SANTA FE DRIVE LITTLETON, CO 80120

TOTALLY COMMITTED. NB+C ENGINEERING SERVICES, LLC.

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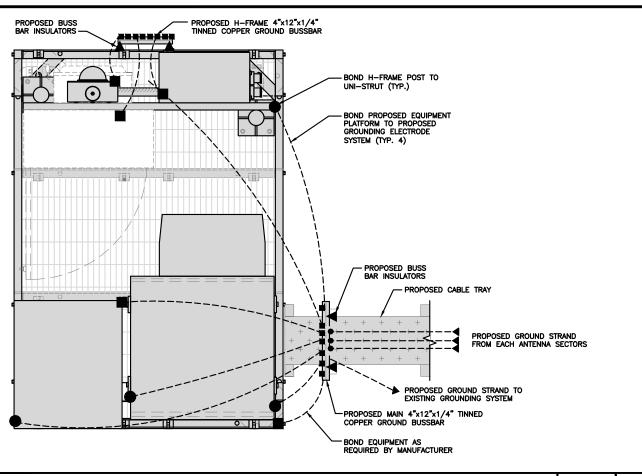
DISH Wireless L.L.C. PROJECT INFORMATION BOBOS00100D

350 THIRD STREET CAMBRIDGE, MA 02142

SHEET TITLE **GROUNDING DETAILS**

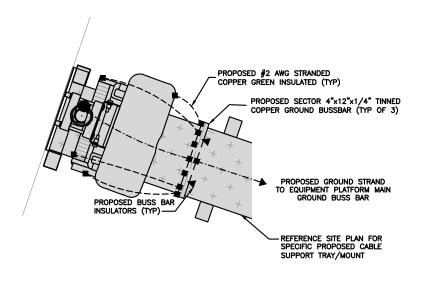
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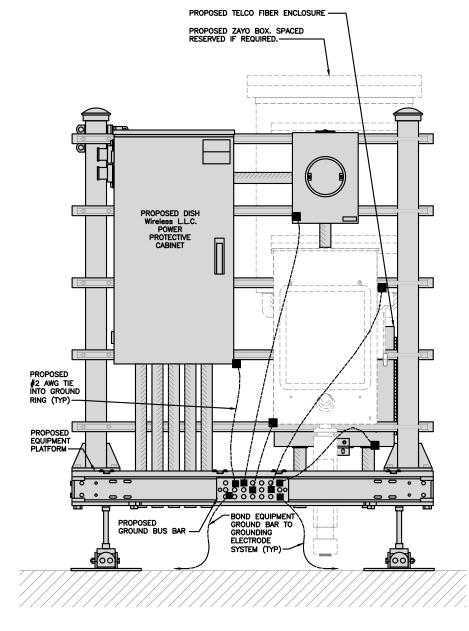
G-2



TYPICAL ROOFTOP EQUIPMENT GROUNDING PLAN

NO SCALE



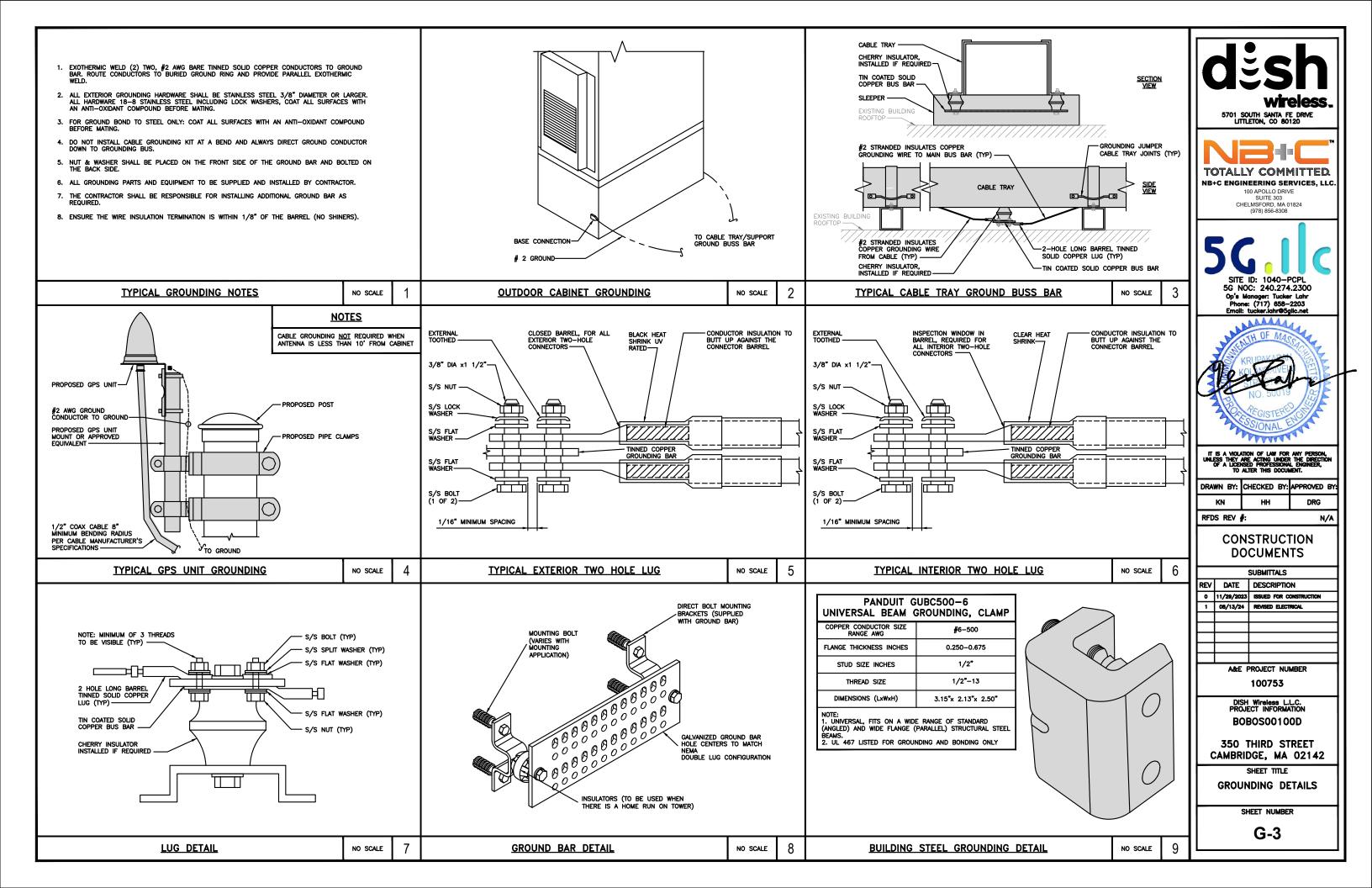


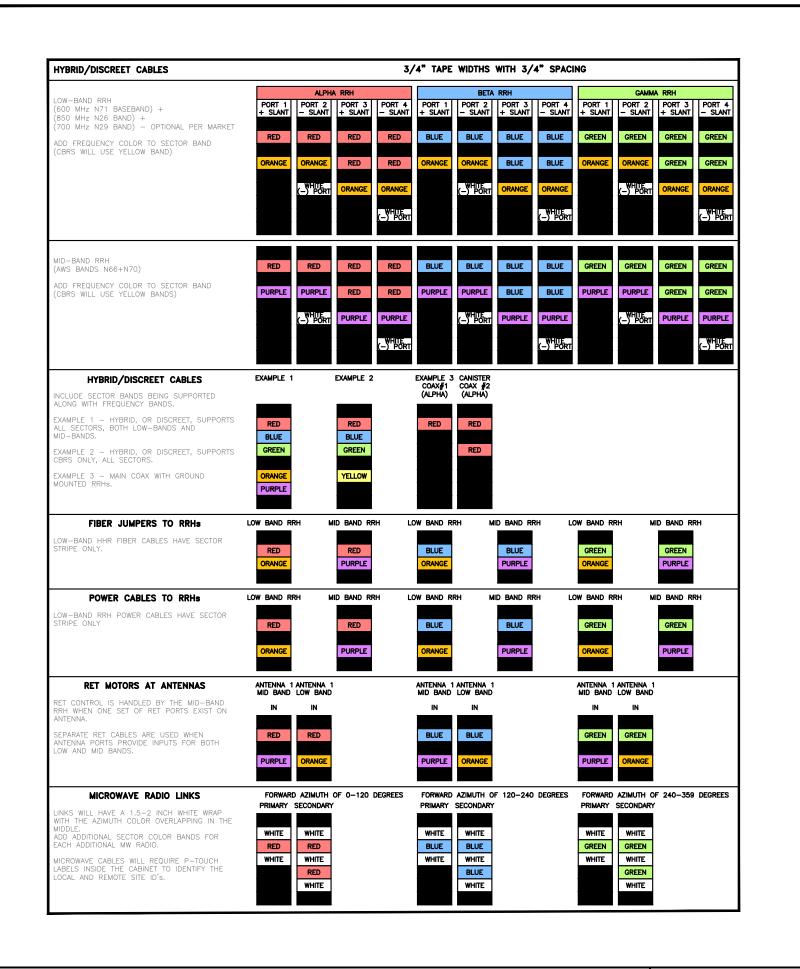
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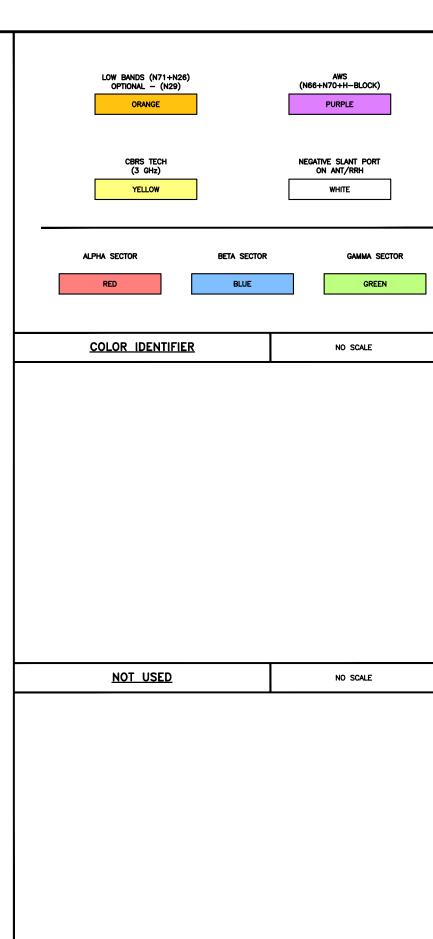
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H-FRAME GROUNDING DETAIL

NO SCALE









5701 SOUTH SANTA FE DRIVE LITTLETON, CO 80120



100 APOLLO DRIVE SUITE 303 CHELMSFORD, MA 01824 (978) 856-8308

SITE ID: 1040-PCPL 5G NOC: 240.274.2300 Op's Manager: Tucker Lahr Phone: (717) 658–2203 Email: tucker.lahr@5gllc.net



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RFDS REV	N/A		
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DRAWN BY:	CHECKED BY:	APPROVED BY:	

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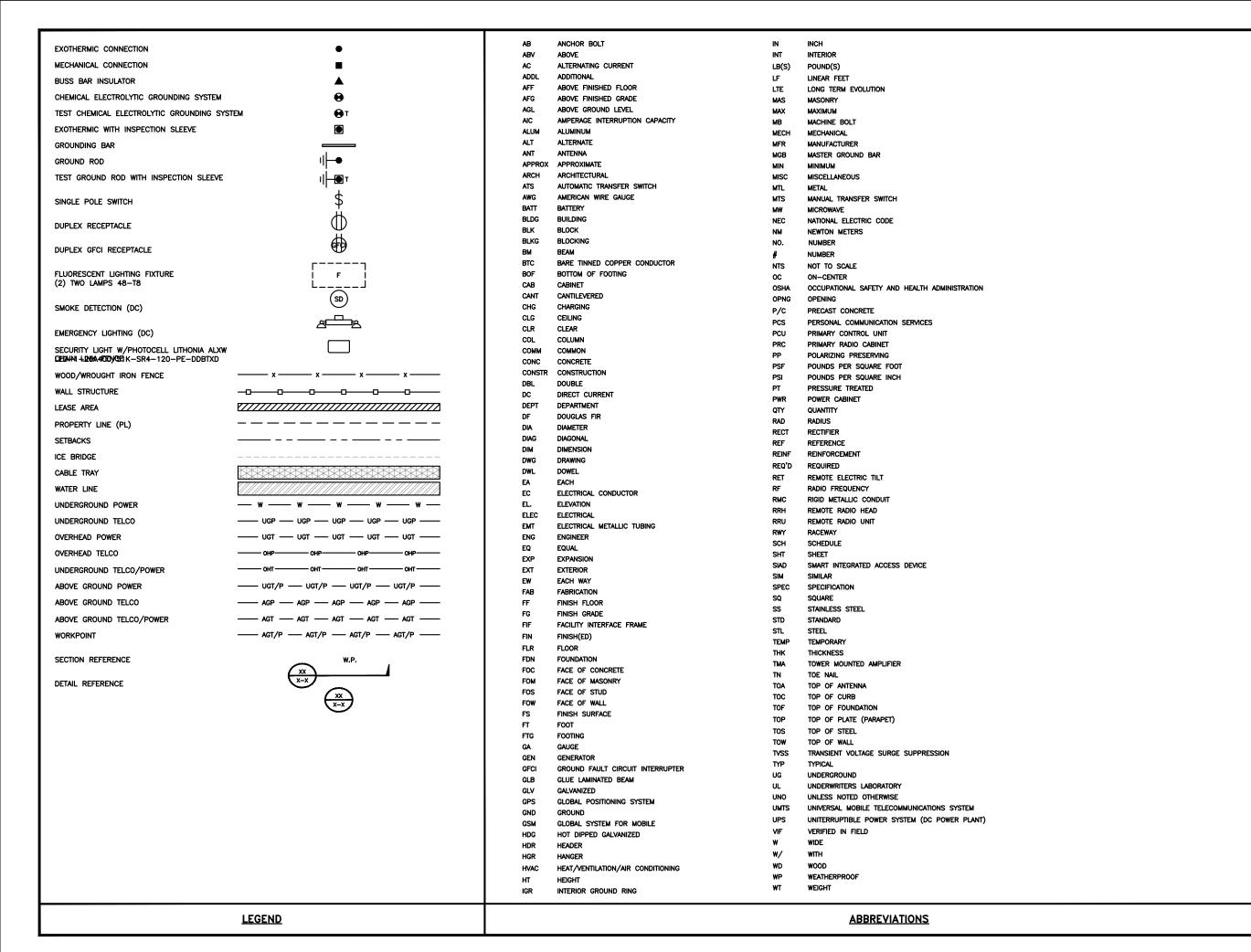
350 THIRD STREET CAMBRIDGE, MA 02142

SHEET TITLE

CABLE COLOR CODE SHEET NUMBER

RF-1

RF CABLE COLOR CODES **NOT USED** NO SCALE NO SCALE





5701 SOUTH SANTA FE DRIVE LITTLETON, CO 80120



100 APOLLO DRIVE SUITE 303 CHELMSFORD, MA 01824 (978) 856-8308

SITE ID: 1040-PCPL 5G NOC: 240.274.2300



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DISH Wireless L.L.C. PROJECT INFORMATION BOBOS00100D

350 THIRD STREET CAMBRIDGE, MA 02142

> SHEET TITLE LEGEND AND **ABBREVIATIONS**

> > SHEET NUMBER

SIGN TYPES		
TYPE	COLOR	COLOR CODE PURPOSE
INFORMATION	GREEN	"INFORMATIONAL SIGN" TO NOTIFY OTHERS OF SITE OWNERSHIP & CONTACT NUMBER AND POTENTIAL RF EXPOSURE.
NOTICE	BLUE	"NOTICE BEYOND THIS POINT" RF FIELDS BEYOND THIS POINT MAY EXCEED THE FCC GENERAL PUBLIC EXPOSURE LIMIT. OBEY ALL POSTED SIGNS AND SITE GUIDELINES FOR WORKING IN RF ENVIRONMENTS. IN ACCORDANCE WITH FEDERAL COMMUNICATIONS COMMISSION RULES ON RADIO FREQUENCY EMISSIONS 47 CFR-1.1307(b)
CAUTION	YELLOW	"CAUTION BEYOND THIS POINT" RF FIELDS BEYOND THIS POINT MAY EXCEED THE FCC GENERAL PUBLIC EXPOSURE LIMIT. OBEY ALL POSTED SIGNS AND SITE GUIDELINES FOR WORKING IN RF ENVIRONMENTS. IN ACCORDANCE WITH FEDERAL COMMUNICATIONS COMMISSION RULES ON RADIO FREQUENCY EMISSIONS 47 CFR-1.1307(b)
WARNING	ORANGE/RED	"WARNING BEYOND THIS POINT" RF FIELDS AT THIS SITE EXCEED FCC RULES FOR HUMAN EXPOSURE. FAILURE TO OBEY ALL POSTED SIGNS AND SITE GUIDELINES FOR WORKING IN RF ENVIRONMENTS COULD RESULT IN SERIOUS INJURY. IN ACCORDANCE WITH FEDERAL COMMUNICATIONS COMMISSION RULES ON RADIO FREQUENCY EMISSIONS 47 CFR-1.1307(b)

- RF SIGNAGE PLACEMENT SHALL FOLLOW THE RECOMMENDATIONS OF AN EXISTING EME REPORT, CREATED BY A THIRD PARTY PREVIOUSLY AUTHORIZED BY DISH Wireless L.L.C.
- INFORMATION SIGN (GREEN) SHALL BE LOCATED ON EXISTING DISH Wireless L.L.C EQUIPMENT.

 A) IF THE INFORMATION SIGN IS A STICKER, IT SHALL BE PLACED ON EXISTING DISH WIreless L.L.C EQUIPMENT CABINET.

 B) IF THE INFORMATION SIGH IS A METAL SIGN IT SHALL BE PLACED ON EXISTING DISH Wireless L.L.C H-FRAME WITH A SECURE ATTACH METHOD.
- IF EME REPORT IS NOT AVAILABLE AT THE TIME OF CREATION OF CONSTRUCTION DOCUMENTS; PLEASE CONTACT DISH WIreless L.L.C. CONSTRUCTION MANAGER FOR FURTHER INSTRUCTION ON HOW TO PROCEED.

- 1. FOR DISH Wireless L.L.C. LOGO, SEE DISH Wireless L.L.C. DESIGN SPECIFICATIONS (PROVIDED BY DISH Wireless L.L.C.)
- 2. SITE ID SHALL BE APPLIED TO SIGNS USING "LASER ENGRAVING" OR ANY OTHER WEATHER RESISTANT METHOD (DISH Wireless L.L.C. APPROVAL REQUIRED)
- 4. CABINET/SHELTER MOUNTING APPLICATION REQUIRES ANOTHER PLATE APPLIED TO THE FACE OF THE CABINET WITH WATER PROOF POLYURETHANE ADHESIVE
- 5. ALL SIGNS WILL BE SECURED WITH EITHER STAINLESS STEEL ZIP TIES OR STAINLESS STEEL TECH SCREWS
- 6. ALL SIGNS TO BE 8.5"x11" AND MADE WITH 0.04" OF ALUMINUM MATERIAL

INFORMATION

This is an access point to an area with transmitting antennas.

Obey all signs and barriers beyond this point. Call the DISH Wireless L.L.C. NOC at 1-866-624-6874

Site ID:



THIS SIGN IS FOR REFERENCE PURPOSES ONLY

NOTICE



Transmitting Antenna(s)

Radio frequency fields beyond this point MAY **EXCEED** the FCC Occupational exposure limit.

Obey all posted signs and site guidelines for working in radio frequency environments.

Call the DISH Wireless L.L.C. NOC at 1-866-624-6874 prior to working beyond this point.

dish

A CAUTION



Transmitting Antenna(s)

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dish



Transmitting Antenna(s)

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dish



RFDS REV	# :	N/A
KN	Н	DRG
DRAWN BY:	CHECKED BY:	APPROVED BY:

CONSTRUCTION **DOCUMENTS**

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100753 BOBOS00100D

350 THIRD STREET CAMBRIDGE, MA 02142

> SHEET TITLE RF SIGNAGE

SHEET NUMBER

SITE ACTIVITY REQUIREMENTS:

- 1. NOTICE TO PROCEED NO WORK SHALL COMMENCE PRIOR TO CONTRACTOR RECEIVING A WRITTEN NOTICE TO PROCEED (NTP) AND THE ISSUANCE OF A PURCHASE ORDER. PRIOR TO ACCESSING/ENTERING THE SITE YOU MUST CONTACT THE DISH Wireless L.L.C. AND TOWER OWNER NOC & THE DISH Wireless L.L.C. AND TOWER OWNER CONSTRUCTION MANAGER.
- 2. "LOOK UP" DISH Wireless L.L.C. AND TOWER OWNER 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 DISH WIReless L.L.C. AND DISH WIReless L.L.C. AND TOWER OWNER POC OR CALL THE NOC TO GENERATE A SAFETY CLIMB MAINTENANCE AND CONTRACTOR NOTICE TICKET.

- 3. PRIOR TO THE START OF CONSTRUCTION, ALL REQUIRED JURISDICTIONAL PERMITS SHALL BE OBTAINED. THIS INCLUDES, BUT IS NOT LIMITED TO, BUILDING, ELECTRICAL, MECHANICAL, FIRE, FLOOD ZONE, ENVIRONMENTAL, AND ZONING. AFTER ONSITE ACTIVITIES AND CONSTRUCTION ARE COMPLETED, ALL REQUIRED PERMITS SHALL BE SATISFIED AND CLOSED OUT ACCORDING TO LOCAL JURISDICTIONAL REQUIREMENTS.
- 4. ALL CONSTRUCTION MEANS AND METHODS; INCLUDING BUT NOT LIMITED TO, ERECTION PLANS, RIGGING PLANS, CLIMBING PLANS, AND RESCUE PLANS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR RESPONSIBLE FOR THE EXECUTION OF THE WORK CONTAINED HEREIN, AND SHALL MEET ANSI/ASSE A10.48 (LATEST EDITION); FEDERAL, STATE, AND LOCAL REGULATIONS; AND ANY APPLICABLE INDUSTRY CONSENSUS STANDARDS RELATED TO THE CONSTRUCTION ACTIVITIES BEING PERFORMED. ALL RIGGING PLANS SHALL ADHERE TO ANSI/ASSE A10.48 (LATEST EDITION) AND DISH WIRELESS L.L.C. AND TOWER OWNER STANDARDS, INCLUDING THE REQUIRED INVOLVEMENT OF A QUALIFIED ENGINEER FOR CLASS IV CONSTRUCTION, TO CERTIFY THE SUPPORTING STRUCTURE(S) IN ACCORDANCE WITH ANSI/TIA-322 (LATEST EDITION).
- 5. ALL SITE WORK TO COMPLY WITH DISH Wireless L.L.C. AND TOWER OWNER INSTALLATION STANDARDS FOR CONSTRUCTION ACTIVITIES ON DISH Wireless L.L.C. AND TOWER OWNER TOWER SITE AND LATEST VERSION OF ANSI/TIA-1019-A-2012 "STANDARD FOR INSTALLATION, ALTERATION, AND MAINTENANCE OF ANTENNA SUPPORTING STRUCTURES AND ANTENNAS."
- 6. IF THE SPECIFIED EQUIPMENT CAN NOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY DISH Wireless L.L.C. AND TOWER OWNER PRIOR TO PROCEEDING WITH ANY SUCH CHANGE OF INSTALLATION.
- 7. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES. CONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
- 8. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
- 9. THE CONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES INCLUDING PRIVATE LOCATES SERVICES PRIOR TO THE START OF CONSTRUCTION.
- 10. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY CONTRACTOR. EXTREME CAUTION SHOULD BE USED BY THE CONTRACTOR WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES. CONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS WILL INCLUDE BUT NOT BE LIMITED TO A) FALL PROTECTION B) CONFINED SPACE C) ELECTRICAL SAFETY D) TRENCHING AND EXCAVATION E) CONSTRUCTION SAFETY PROCEDURES.
- 11. ALL SITE WORK SHALL BE AS INDICATED ON THE STAMPED CONSTRUCTION DRAWINGS AND DISH PROJECT SPECIFICATIONS, LATEST APPROVED REVISION.
- 12. CONTRACTOR SHALL KEEP THE SITE FREE FROM ACCUMULATING WASTE MATERIAL, DEBRIS, AND TRASH AT THE COMPLETION OF THE WORK. IF NECESSARY, RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.
- 13. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF DISH WIReless L.L.C. AND TOWER OWNER, AND/OR LOCAL UTILITIES.
- 14. THE CONTRACTOR SHALL PROVIDE SITE SIGNAGE IN ACCORDANCE WITH THE TECHNICAL SPECIFICATION FOR SITE SIGNAGE REQUIRED BY LOCAL JURISDICTION AND SIGNAGE REQUIRED ON INDIVIDUAL PIECES OF EQUIPMENT, ROOMS, AND SHELTERS.
- 15. THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE CARRIER'S EQUIPMENT AND TOWER AREAS.
- 16. THE SUB GRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION.
- 17. THE AREAS OF THE OWNERS PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE TOWER, EQUIPMENT OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM SLOPE, AND STABILIZED TO PREVENT EROSION AS SPECIFIED ON THE CONSTRUCTION DRAWINGS AND/OR PROJECT SPECIFICATIONS.
- 18. CONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE LOCAL GUIDELINES FOR EROSION AND SEDIMENT CONTROL.
- 19. THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF OWNER.
- 20. CONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS AND RADIOS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION.
- 21. CONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION. TRASH AND DEBRIS SHOULD BE REMOVED FROM SITE ON A DAILY BASIS.
- 22. NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND. FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.

GENERAL NOTES:

1.FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY:

CONTRACTOR: GENERAL CONTRACTOR RESPONSIBLE FOR CONSTRUCTION

CARRIER:DISH Wireless L.L.C.

TOWER OWNER:TOWER OWNER

- 2. THESE DRAWINGS HAVE BEEN PREPARED USING STANDARDS OF PROFESSIONAL CARE AND COMPLETENESS NORMALLY EXERCISED UNDER SIMILAR CIRCUMSTANCES BY REPUTABLE ENGINEERS IN THIS OR SIMILAR LOCALITIES. IT IS ASSUMED THAT THE WORK DEPICTED WILL BE PERFORMED BY AN EXPERIENCED CONTRACTOR AND/OR WORKPEOPLE WHO HAVE A WORKING KNOWLEDGE OF THE APPLICABLE CODE STANDARDS AND REQUIREMENTS AND OF INDUSTRY ACCEPTED STANDARD GOOD PRACTICE. AS NOT EVERY CONDITION OR ELEMENT IS (OR CAN BE) EXPLICITLY SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL USE INDUSTRY ACCEPTED STANDARD GOOD PRACTICE FOR MISCELLANEOUS WORK NOT EXPLICITLY SHOWN.
- 3. THESE DRAWINGS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE MEANS OR METHODS OF CONSTRUCTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY FOR PROTECTION OF LIFE AND PROPERTY DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, FORMWORK, SHORING, ETC. SITE VISITS BY THE ENGINEER OR HIS REPRESENTATIVE WILL NOT INCLUDE INSPECTION OF THESE ITEMS AND IS FOR STRUCTURAL OBSERVATION OF THE FINISHED STRUCTURE ONLY.
- 4. NOTES AND DETAILS IN THE CONSTRUCTION DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT, AND/OR AS PROVIDED FOR IN THE CONTRACT DOCUMENTS. WHERE DISCREPANCIES OCCUR BETWEEN PLANS, DETAILS, GENERAL NOTES, AND SPECIFICATIONS, THE GREATER, MORE STRICT REQUIREMENTS, SHALL GOVERN. IF FURTHER CLARIFICATION IS REQUIRED CONTACT THE ENGINEER OF RECORD.
- 5. SUBSTANTIAL EFFORT HAS BEEN MADE TO PROVIDE ACCURATE DIMENSIONS AND MEASUREMENTS ON THE DRAWINGS TO ASSIST IN THE FABRICATION AND/OR PLACEMENT OF CONSTRUCTION ELEMENTS BUT IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY THE DIMENSIONS, MEASUREMENTS, AND/OR CLEARANCES SHOWN IN THE CONSTRUCTION DRAWINGS PRIOR TO FABRICATION OR CUTTING OF ANY NEW OR EXISTING CONSTRUCTION ELEMENTS. IF IT IS DETERMINED THAT THERE ARE DISCREPANCIES AND/OR CONFLICTS WITH THE CONSTRUCTION DRAWINGS THE ENGINEER OF RECORD IS TO BE NOTIFIED AS SOON AS POSSIBLE.
- 6. PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING CONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF CARRIER POC AND TOWER OWNER.
- 7. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES. CONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
- 8. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
- 9. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
- 10. IF THE SPECIFIED EQUIPMENT CAN NOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY THE CARRIER AND TOWER OWNER PRIOR TO PROCEEDING WITH ANY SUCH CHANGE OF INSTALLATION.
- 11. CONTRACTOR IS TO PERFORM A SITE INVESTIGATION, BEFORE SUBMITTING BIDS, TO DETERMINE THE BEST ROUTING OF ALL CONDUITS FOR POWER, AND TELCO AND FOR GROUNDING CABLES AS SHOWN IN THE POWER, TELCO, AND GROUNDING PLAN DRAWINGS.
- 12. THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF DISH Wireless L.L.C. AND TOWER OWNER
- 13. CONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION.
- 14. CONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION. TRASH AND DEBRIS SHOULD BE REMOVED FROM SITE ON A DAILY BASIS.



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DRAWN BY:	CHECKED BY:	APPROVED BY:
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RFDS REV	# :	N/A

CONSTRUCTION DOCUMENTS

SUBMITTALS

REV DATE DESCRIPTION

0 11/29/2023 ISSUED FOR CONSTRUCTION

1 08/13/24 REMSED ELECTRICAL

A&E PROJECT NUMBER

DISH Wireless L.L.C. PROJECT INFORMATION BOBOSO0100D

100753

350 THIRD STREET CAMBRIDGE, MA 02142

SHEET TITLE

GENERAL NOTES

SHEET NUMBER

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.
- 2. UNLESS NOTED OTHERWISE, SOIL BEARING PRESSURE USED FOR DESIGN OF SLABS AND FOUNDATIONS IS ASSUMED TO BE 1000 psf.
- 3. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH (f'c) OF 3000 psi AT 28 DAYS, UNLESS NOTED OTHERWISE. NO MORE THAN 90 MINUTES SHALL ELAPSE FROM BATCH TIME TO TIME OF PLACEMENT UNLESS APPROVED BY THE ENGINEER OF RECORD. TEMPERATURE OF CONCRETE SHALL NOT EXCEED 90'F AT TIME OF PLACEMENT.
- 4. CONCRETE EXPOSED TO FREEZE-THAW CYCLES SHALL CONTAIN AIR ENTRAINING ADMIXTURES, AMOUNT OF AIR ENTRAINMENT TO BE BASED ON SIZE OF AGGREGATE AND F3 CLASS EXPOSURE (VERY SEVERE). CEMENT USED TO BE TYPE II PORTLAND CEMENT WITH A MAXIMUM WATER-TO-CEMENT RATIO (W/C) OF 0.45.
- 5. ALL STEEL REINFORCING SHALL CONFORM TO ASTM A615. ALL WELDED WIRE FABRIC (WWF) SHALL CONFORM TO ASTM A185. ALL SPLICES SHALL BE CLASS "B" TENSION SPLICES, UNLESS NOTED OTHERWISE. ALL HOOKS SHALL BE STANDARD 90 DEGREE HOOKS, UNLESS NOTED OTHERWISE. YIELD STRENGTH (Fy) OF STANDARD DEFORMED BARS ARE AS FOLLOWS:

#4 BARS AND SMALLER 40 ksi

#5 BARS AND LARGER 60 ksi

- 6. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON DRAWINGS:
- CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH 3"
- CONCRETE EXPOSED TO EARTH OR WEATHER:
- #6 BARS AND LARGER 2"
- #5 BARS AND SMALLER 1-1/2"
- · CONCRETE NOT EXPOSED TO EARTH OR WEATHER:
- SLAB AND WALLS 3/4"
- BEAMS AND COLUMNS 1-1/2"
- 7. A TOOLED EDGE OR A 3/4" CHAMFER SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE, UNLESS NOTED OTHERWISE, IN ACCORDANCE WITH ACI 301 SECTION 4.2.4.

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.
- 2. CONDUIT ROUTINGS ARE SCHEMATIC. CONTRACTOR SHALL INSTALL CONDUITS SO THAT ACCESS TO EQUIPMENT IS NOT BLOCKED AND TRIP HAZARDS ARE ELIMINATED.
- 3. WIRING, RACEWAY AND SUPPORT METHODS AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE NEC.
- 4. ALL CIRCUITS SHALL BE SEGREGATED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE NEC.
- 4.1. ALL EQUIPMENT SHALL BEAR THE UNDERWRITERS LABORATORIES LABEL OF APPROVAL, AND SHALL CONFORM TO REQUIREMENT OF THE NATIONAL ELECTRICAL CODE.
- 4.2. ALL OVERCURRENT DEVICES SHALL HAVE AN INTERRUPTING CURRENT RATING THAT SHALL BE GREATER THAN THE SHORT CIRCUIT CURRENT TO WHICH THEY ARE SUBJECTED, 22,000 AIC MINIMUM. VERIFY AVAILABLE SHORT CIRCUIT CURRENT DOES NOT EXCEED THE RATING OF ELECTRICAL EQUIPMENT IN ACCORDANCE WITH ARTICLE 110.24 NEC OR THE MOST CURRENT ADOPTED CODE PRE THE GOVERNING JURISDICTION.
- 5. EACH END OF EVERY POWER PHASE CONDUCTOR, GROUNDING CONDUCTOR, AND TELCO CONDUCTOR OR CABLE SHALL BE LABELED WITH COLOR—CODED INSULATION OR ELECTRICAL TAPE (3M BRAND, 1/2" PLASTIC ELECTRICAL TAPE WITH UV PROTECTION, OR EQUAL). THE IDENTIFICATION METHOD SHALL CONFORM WITH NEC AND OSHA.
- 6. ALL ELECTRICAL COMPONENTS SHALL BE CLEARLY LABELED WITH LAMICOID TAGS SHOWING THEIR RATED VOLTAGE, PHASE CONFIGURATION, WIRE CONFIGURATION, POWER OR AMPACITY RATING AND BRANCH CIRCUIT ID NUMBERS (i.e. PANEL BOARD AND CIRCUIT ID'S).
- 7. PANEL BOARDS (ID NUMBERS) SHALL BE CLEARLY LABELED WITH PLASTIC LABELS.
- 8. TIE WRAPS ARE NOT ALLOWED.
- 9. ALL POWER AND EQUIPMENT GROUND WIRING IN TUBING OR CONDUIT SHALL BE SINGLE COPPER CONDUCTOR (#14 OR LARGER) WITH TYPE THHW, THWN, THWN-2, XHHW, XHHW-2, THW, THW-2, RHW, OR RHW-2 INSULATION UNLESS OTHERWISE SPECIFIED.
- 10. SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED INDOORS SHALL BE SINGLE COPPER CONDUCTOR (#6 OR LARGER) WITH TYPE THHW, THWN, THWN-2, XHHW, XHHW-2, THW, THW-2, RHW, OR RHW-2 INSULATION UNLESS OTHERWISE SPECIFIED.
- 11. POWER AND CONTROL WIRING IN FLEXIBLE CORD SHALL BE MULTI-CONDUCTOR, TYPE SOOW CORD (#14 OR LARGER) UNLESS OTHERWISE SPECIFIED.
- 12. POWER AND CONTROL WIRING FOR USE IN CABLE TRAY SHALL BE MULTI-CONDUCTOR, TYPE TC CABLE (#14 OR LARGER), WITH TYPE THHW, THWN, THWN-2, XHHW, XHHW-2, THW, THW-2, RHW, OR RHW-2 INSULATION UNLESS OTHERWISE SPECIFIED.
- 13. ALL POWER AND GROUNDING CONNECTIONS SHALL BE CRIMP-STYLE, COMPRESSION WIRE LUGS AND WIRE NUTS BY THOMAS AND BETTS (OR EQUAL). LUGS AND WIRE NUTS SHALL BE RATED FOR OPERATION NOT LESS THAN 75° C (90° C IF AVAILABLE).
- 14. RACEWAY AND CABLE TRAY SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE AND NEC.
- 15. ELECTRICAL METALLIC TUBING (EMT), INTERMEDIATE METAL CONDUIT (IMC), OR RIGID METAL CONDUIT (RMC) SHALL BE USED FOR EXPOSED INDOOR LOCATIONS.

- 3. ELECTRICAL METALLIC TUBING (EMT) OR METAL—CLAD CABLE (MC) SHALL BE USED FOR CONCEALED INDOOR LOCATIONS.
- 17. SCHEDULE 40 PVC UNDERGROUND ON STRAIGHTS AND SCHEDULE 80 PVC FOR ALL ELBOWS/90s AND ALL APPROVED ABOVE GRADE PVC CONDUIT.
- 18. LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT (LIQUID-TITE FLEX) SHALL BE USED INDOORS AND OUTDOORS, WHERE VIBRATION OCCURS OR FLEXIBILITY IS NEEDED.
- 19. CONDUIT AND TUBING FITTINGS SHALL BE THREADED OR COMPRESSION—TYPE AND APPROVED FOR THE LOCATION USED. SET SCREW FITTINGS ARE NOT ACCEPTABLE.
- 20. CABINETS, BOXES AND WIRE WAYS SHALL BE LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE AND THE NEC.
- 21. WIREWAYS SHALL BE METAL WITH AN ENAMEL FINISH AND INCLUDE A HINGED COVER, DESIGNED TO SWING OPEN DOWNWARDS (WIREMOLD SPECMATE WIREWAY).
- 22. SLOTTED WIRING DUCT SHALL BE PVC AND INCLUDE COVER (PANDUIT TYPE E OR EQUAL).
- 23. CONDUITS SHALL BE FASTENED SECURELY IN PLACE WITH APPROVED NON-PERFORATED STRAPS AND HANGERS. EXPLOSIVE DEVICES (i.e. POWDER-ACTUATED) FOR ATTACHING HANGERS TO STRUCTURE WILL NOT BE PERMITTED. CLOSELY FOLLOW THE LINES OF THE STRUCTURE, MAINTAIN CLOSE PROXIMITY TO THE STRUCTURE AND KEEP CONDUITS IN TIGHT ENVELOPES. CHANGES IN DIRECTION TO ROUTE AROUND OBSTACLES SHALL BE MADE WITH CONDUIT OUTLET BODIES. CONDUIT SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER. PARALLEL AND PERPENDICULAR TO STRUCTURE WALL AND CEILING LINES. ALL CONDUIT SHALL BE FISHED TO CLEAR OBSTRUCTIONS. ENDS OF CONDUITS SHALL BE TEMPORARILY CAPPED FLUSH TO FINISH GRADE TO PREVENT CONCRETE, PLASTER OR DIRT FROM ENTERING. CONDUITS SHALL BE RIGIDLY CLAMPED TO BOXES BY GALVANIZED MALLEABLE IRON BUSHING ON INSIDE AND GALVANIZED MALLEABLE IRON LOCKNUT ON OUTSIDE AND INSIDE.
- 24. EQUIPMENT CABINETS, TERMINAL BOXES, JUNCTION BOXES AND PULL BOXES SHALL BE GALVANIZED OR EPOXY-COATED SHEET STEEL. SHALL MEET OR EXCEED UL 50 AND BE RATED NEMA 1 (OR BETTER) FOR INTERIOR LOCATIONS AND NEMA 3 (OR BETTER) FOR EXTERIOR LOCATIONS.
- 25. METAL RECEPTACLE, SWITCH AND DEVICE BOXES SHALL BE GALVANIZED, EPOXY—COATED OR NON—CORRODING; SHALL MEET OR EXCEED UL 514A AND NEMA OS 1 AND BE RATED NEMA 1 (OR BETTER) FOR INTERIOR LOCATIONS AND WEATHER PROTECTED (WP OR BETTER) FOR EXTERIOR LOCATIONS.
- 26. NONMETALLIC RECEPTACLE, SWITCH AND DEVICE BOXES SHALL MEET OR EXCEED NEMA OS 2 (NEWEST REVISION) AND BE RATED NEMA 1 (OR BETTER) FOR INTERIOR LOCATIONS AND WEATHER PROTECTED (WP OR BETTER) FOR EXTERIOR LOCATIONS.
- 27. THE CONTRACTOR SHALL NOTIFY AND OBTAIN NECESSARY AUTHORIZATION FROM THE CARRIER AND/OR DISH Wireless L.L.C. AND TOWER OWNER BEFORE COMMENCING WORK ON THE AC POWER DISTRIBUTION PANELS.
- 28. THE CONTRACTOR SHALL PROVIDE NECESSARY TAGGING ON THE BREAKERS, CABLES AND DISTRIBUTION PANELS IN ACCORDANCE WITH THE APPLICABLE CODES AND STANDARDS TO SAFEGUARD LIFE AND PROPERTY.
- 29. INSTALL LAMICOID LABEL ON THE METER CENTER TO SHOW "DISH Wireless L.L.C.".
- 30. ALL EMPTY/SPARE CONDUITS THAT ARE INSTALLED ARE TO HAVE A METERED MULE TAPE PULL CORD INSTALLED.



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DRAWN BY:	CHECKED BY:	APPROVED BY:
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RFDS REV #:

CONSTRUCTION DOCUMENTS

N/A

	SUBMITTALS		
REV	REV DATE DESCRIPTION		
۰	11/29/2023	ISSUED FOR CONSTRUCTION	
1 08/13/24		REVISED ELECTRICAL	
	A&E PROJECT NUMBER		

100753

DISH Wireless L.L.C. PROJECT INFORMATION BOBOS00100D

350 THIRD STREET CAMBRIDGE, MA 02142

SHEET TITLE

GENERAL NOTES

SHEET NUMBER

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.
- 2. THE CONTRACTOR SHALL PERFORM IEEE FALL—OF—POTENTIAL RESISTANCE TO EARTH TESTING (PER IEEE 1100 AND 81) FOR GROUND ELECTRODE SYSTEMS, THE CONTRACTOR SHALL FURNISH AND INSTALL SUPPLEMENTAL GROUND ELECTRODES AS NEEDED TO ACHIEVE A TEST RESULT OF 5 OHMS OR LESS.
- 3. THE CONTRACTOR IS RESPONSIBLE FOR PROPERLY SEQUENCING GROUNDING AND UNDERGROUND CONDUIT INSTALLATION AS TO PREVENT ANY LOSS OF CONTINUITY IN THE GROUNDING SYSTEM OR DAMAGE TO THE CONDUIT AND PROVIDE TESTING RESULTS.
- 4. METAL CONDUIT AND TRAY SHALL BE GROUNDED AND MADE ELECTRICALLY CONTINUOUS WITH LISTED BONDING FITTINGS OR BY BONDING ACROSS THE DISCONTINUITY WITH #6 COPPER WIRE UL APPROVED GROUNDING TYPE CONDUIT CLAMPS.
- 5. METAL RACEWAY SHALL NOT BE USED AS THE NEC REQUIRED EQUIPMENT GROUND CONDUCTOR. STRANDED COPPER CONDUCTORS WITH GREEN INSULATION, SIZED IN ACCORDANCE WITH THE NEC, SHALL BE FURNISHED AND INSTALLED WITH THE POWER CIRCUITS TO BTS FOUIPMENT.
- 6. EACH CABINET FRAME SHALL BE DIRECTLY CONNECTED TO THE MASTER GROUND BAR WITH GREEN INSULATED SUPPLEMENTAL EQUIPMENT GROUND WIRES, #6 STRANDED COPPER OR LARGER FOR INDOOR BTS; #2 BARE SOLID TINNED COPPER FOR OUTDOOR BTS.
- 7. CONNECTIONS TO THE GROUND BUS SHALL NOT BE DOUBLED UP OR STACKED BACK TO BACK CONNECTIONS ON OPPOSITE SIDE OF THE GROUND BUS ARE PERMITTED.
- 8. ALL EXTERIOR GROUND CONDUCTORS BETWEEN EQUIPMENT/GROUND BARS AND THE GROUND RING SHALL BE #2 SOLID TINNED COPPER UNLESS OTHERWISE INDICATED.
- 9. ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CONNECTIONS.
- 10. USE OF 90° BENDS IN THE PROTECTION GROUNDING CONDUCTORS SHALL BE AVOIDED WHEN 45° BENDS CAN BE ADEQUATELY SUPPORTED.
- 11. EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.
- 12. ALL GROUND CONNECTIONS ABOVE GRADE (INTERIOR AND EXTERIOR) SHALL BE FORMED USING HIGH PRESS CRIMPS.
- COMPRESSION GROUND CONNECTIONS MAY BE REPLACED BY EXOTHERMIC WELD CONNECTIONS.
- 14. ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED OR BOLTED TO THE BRIDGE AND THE TOWER GROUND BAR.
- 15. APPROVED ANTIOXIDANT COATINGS (i.e. CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.
- 16. ALL EXTERIOR GROUND CONNECTIONS SHALL BE COATED WITH A CORROSION RESISTANT MATERIAL.
- 17. MISCELLANEOUS ELECTRICAL AND NON-ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE WITH THE NEC.
- 18. BOND ALL METALLIC OBJECTS WITHIN 6 ft OF MAIN GROUND RING WITH (1) #2 BARE SOLID TINNED COPPER GROUND CONDUCTOR.
- 19. GROUND CONDUCTORS USED FOR THE FACILITY GROUNDING AND LIGHTNING PROTECTION SYSTEMS SHALL NOT BE ROUTED THROUGH METALLIC OBJECTS THAT FORM A RING AROUND THE CONDUCTOR, SUCH AS METALLIC CONDUITS, METAL SUPPORT CLIPS OR SLEEVES THROUGH WALLS OR FLOORS. WHEN IT IS REQUIRED TO BE HOUSED IN CONDUIT TO MEET CODE REQUIREMENTS OR LOCAL CONDITIONS, NON-METALLIC MATERIAL SUCH AS PVC CONDUIT SHALL BE USED. WHERE USE OF METAL CONDUIT IS UNAVOIDABLE (i.e., NONMETALLIC CONDUIT PROHIBITED BY LOCAL CODE) THE GROUND CONDUCTOR SHALL BE BONDED TO EACH END OF THE METAL CONDUIT.
- 20. ALL GROUNDS THAT TRANSITION FROM BELOW GRADE TO ABOVE GRADE MUST BE #2 BARE SOLID TINNED COPPER IN 3/4" NON-METALLIC, FLEXIBLE CONDUIT FROM 24" BELOW GRADE TO WITHIN 3" TO 6" OF CAD-WELD TERMINATION POINT. THE EXPOSED END OF THE CONDUIT MUST BE SEALED WITH SILICONE CAULK. (ADD TRANSITIONING GROUND STANDARD DETAIL AS WELL).
- 21. BUILDINGS WHERE THE MAIN GROUNDING CONDUCTORS ARE REQUIRED TO BE ROUTED TO GRADE, THE CONTRACTOR SHALL ROUTE TWO GROUNDING CONDUCTORS FROM THE ROOFTOP, TOWERS, AND WATER TOWERS GROUNDING RING, TO THE EXISTING GROUNDING SYSTEM, THE GROUNDING CONDUCTORS SHALL NOT BE SMALLER THAN 2/O COPPER. ROOFTOP GROUNDING RING SHALL BE BONDED TO THE EXISTING GROUNDING SYSTEM, THE BUILDING STEEL COLUMNS, LIGHTNING PROTECTION SYSTEM, AND BUILDING MAIN WATER LINE (FERROUS OR NONFERROUS METAL PIPING ONLY). DO NOT ATTACH GROUNDING TO FIRE SPRINKLER SYSTEM PIPES.



E1121014, 00 00120



100 APOLLO DRIVE SUITE 303 CHELMSFORD, MA 01824 (978) 856-8308

5G NOC: 240.274.2300



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:
KN	НН	DRG
RFDS REV	# :	N/A

CONSTRUCTION DOCUMENTS

	SUBMITTALS		
REV	DATE	DESCRIPTION	
0	11/29/2023	ISSUED FOR CONSTRUCTION	
1	08/13/24	REVISED ELECTRICAL	
	AAF F	PROJECT NUMBER	

100753

DISH Wireless L.L.C. PROJECT INFORMATION BOBOSO0100D

350 THIRD STREET CAMBRIDGE, MA 02142

SHEET TITLE
GENERAL NOTES

SHEET NUMBER















AFFIDAVIT OF RADIO FREQUENCY ENGINEER

The undersigned, in support of the proposal by DISH Wireless L.L.C. to install and operate a Wireless Communications Facility on the property located at 482-484 Tremont St., Boston, Massachusetts, under penalties of perjury does hereby testify and depose as follows:

- My name is Sameer Parakkavetty, I have a Degree in Electronics and Communications from Karnatak University (Karnataka, India) and an MBA from Boston University. I am employed as a Radio Frequency Engineer for DISH Wireless L.L.C. I am the Radio Frequency Design Engineer responsible for the DISH Wireless network design in the area of Massachusetts that includes the city of Boston.
- 2. DISH Wireless is a national provider of wireless voice and data services in the United States.
- 3. The above mentioned location is within an area where DISH Wireless has identified a need to locate a Wireless Telecommunications Facility. The search area was determined by the fact that wireless service needs significant improvement in this area of Boston Furthermore, it was determined that the wireless service provided by a facility in this area would connect well with those of existing and proposed facilities in the surrounding area. To date, DISH Wireless has been unable to successfully locate a wireless communications facility in this locale. A site acquisition firm was hired by DISH Wireless to identify potential sites within the search area.
- 4. I have knowledge of the proposed Wireless Telecommunications Facility to be located at 482-484 Tremont St in the City of Boston as well as the other existing and proposed Wireless Telecommunications Facility locations used in DISH Wireless' system in Boston and the surrounding areas. I have analyzed the potential benefits this site would represent to DISH Wireless' network and its' users through radio frequency propagation modeling. I employed computer simulations to determine network requirements, and to identify system requirements. These simulations modeled characteristics such as antenna types, antenna height, output power, terrain, ground elevations and RF propagation effects of the utilized frequencies.
- 5. Propagation simulation at the proposed location has determined that an antenna center-line height of no less than 93 feet above ground level at this location will satisfy the service requirements for DISH Wireless' network. Any reduction in the proposed height and/or antenna configuration would result in coverage footprint shrinkage. This would limit the site's effectiveness in connecting with surrounding sites and impact the level of service DISH Wireless is attempting to provide at this location. Changes to the site configuration would limit the site's ability to resolve the existing network requirements in the City of Boston.
- 6. I have concluded that the proposed Wireless Telecommunications Facility at 482-484 Tremont St fulfills the present network and quality objectives that motivated DISH Wireless to establish a search ring in this vicinity. Radio frequency propagation modeling establishes that this installation will accomplish DISH Wireless' network goals.

- 7. All proposed wireless communications equipment will be installed, erected, maintained and operated in compliance with all applicable Federal, State and local regulations, including, but not limited to the radio frequency emissions regulations adopted by the Federal Communications Commission (FCC). All equipment proposed is authorized by the FCC Guidelines for Evaluating the Environmental effects of Radio Frequency Emissions. The radio frequency exposure levels generated by the proposed facility are substantially within the maximum allowable health and safety standards established by the FCC.
- 8. Providing wireless communication services is a benefit to the residents and businesses of the city of Boston as well as to mobile customers travelling throughout the area. The proposed location is well suited to meet DISH Wireless' network requirements for the area due to its location and topographic characteristics. Without the proposed facility, DISH Wireless will be unable to provide reliable wireless communication services in this area of the City of Boston.

Signed and sworn under pains and penalties of perjury on this 22nd day of July, 2025.

Sameer Parakkavetty - Radio Frequency (RF) Design Engineer

DISH Wireless L.L.C.

350 Hard let



350 Hairs St.

14-54-55-44-47-51 BMR KENDALL DEVELOPMENT LLC, C/O RYAN LLC. P.O. BOX 847 CARLSBAD, CA 92018

29-34 STABILE, LAWRENCE A. JANE SANFORD STABILE 303 THIRD ST UNIT 517 CAMBRIDGE, MA 02141

29-34 O'LEARY, GERALD & ROSEMARY BOOTH 303 THIRD ST UNIT 505 CAMBRIDGE, MA 02141

14-1038 /14-45 BMR-350 & BMR-650 E KENDALL B LLC C/O RYAN LLC P O BOX 847 CARLSBAD, CA 92018

13-21/14-41 SOUTHERN ENERGY KENDALL C/O BRIAN KRAMSCHUSTER 13155 NOEL RD., SUITE 100 DALLAS, TX 75240

14-36 /13-23 RREEF AMERICA REIT II CORP. PPP C/O CB RICHARD ELLIS P O BOX 4900, 207 SCOTTSDALE, AZ 85261-4900

29-34 XIANG, JANE & WEI DENG 3864 SANTA CATERINA BLVD LAKEWOOD RANCH, FL 34211

29-34 ROACH ROGER A TRS. ROGER A ROACH LIVING TR 303 THIRD ST - UNIT 415 CAMBRIDGE, MA 02142 29-34 303 THIRD SPE LLC, C/O EQR-R.E. TAX DEPARTMENT P.O. BOX 87407 (19337) CHICAGO, IL 60680-0407

29-34 BEAVER PAD LLC PO BOX 1588 JACKSON, WY 83001

29-34 LITSTER, J. DAVID, TR. J. DAVID LISTER 2009 REV TRUST 303 THIRD ST UNIT 812 CAMBRIDGE, MA 02141

29-34 POONEN, BJORN M. 303 3RD ST UNIT 416 CAMBRIDGE, MA 02142

14-26 MIT 139 MAIN ST FEE OWNER LLC C/O MIT INVESTMENT MGMT CO ONE BROADWAY, 9TH FL, SUITE 200 CAMBRIDGE, MA 02142

14-67 BMR-THIRD LLC P.O. BOX 847 ATTN: LEGAL DEPARTMENT CARLSBAD, CA 92121

14-59-58 MIT 165 MAIN ST FEE OWNER LLC C/O MIT CAMBRIDGE REAL ESTATE LLC ONE BROADWAY, SUITE 09-200 CAMBRIDGE, MA 02142

29-34 DENNIS, JACK B. 303 THIRD ST UNIT 705 CAMBRIDGE, MA 02141 NB+C C/O COREY MILAN 300 UNICORN PARK - UNIT 501 WOBURN, MA 01801

14-1038 TP/P KENDALL SQUARE, LLC. GABLES RESIDENTIAL C/O DARCI WATSON 3399 PEACHTREE RD NE, SUITE 600 ATLANTA, GA 30326

14-1038 BMR- 450 KENDALL STREET LLC, C/O RYAN LLC P.O. BOX 847 CARLSBAD, CA 92018

29-34 SIMHA. OVADIA R, TR. THE OVADIA R. SIMHA REV LIVING TRUST 303 THIRD ST UNIT 704 CAMBRIDGE, MA 02142

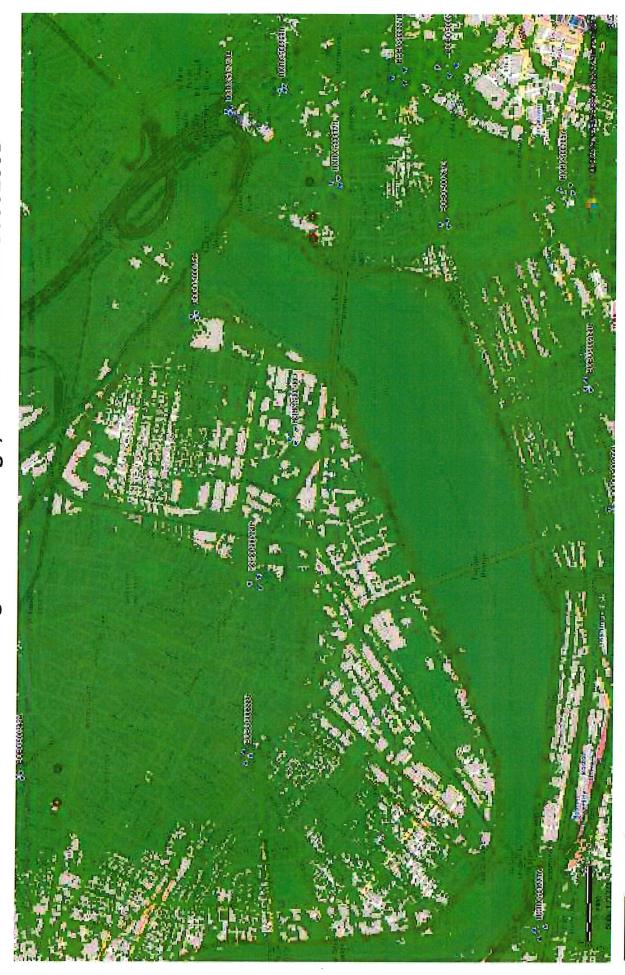
13-16
CLPF-CAMBRIDGE SCIENCE CENTER, LLC,
C/O LINCOLN PROPERTY COMPANY
245 FIRST ST
CAMBRIDGE, MA 02142

14-68 KENDALL SQUARE CORPORATION C/O RYAN LLC P O BOX 847 CARLSBAD, CA 92018

14-1038 WATERMARK II MEMBER, LLC 801 GRAND AVENUE DES MOINES, IA 50392

29-51 MIT VOLPE FEE OWNER LLC ONE BROADWAY 9TH FL STE 200 CAMBRIDGE, MA 02142

Dish Wireless coverage in Cambridge, MA without BOBOS00100D



In-Building Coverage

Dish Wireless coverage in Cambridge, MA with BOBOS00100D

In-Building Coverage

Pacheco, Maria

From:

Bjorn Poonen

bjornpoonen@gmail.com>

Sent:

Friday, August 29, 2025 2:25 PM

To:

Pacheco, Maria

Subject:

BZA-1172523

Dear Board of Zoning Appeal:

I am in favor of granting the special permit for case BZA-1172523, assuming that there is no safety issue, that it is only a matter of appearance. It sounds as if people will hardly notice that the antennas and RRUs are there.

Best,

Bjorn Poonen

(nearby homeowner at 303 3rd St, Cambridge)



City of Cambridge

Massachusetts

BOARD OF ZONING APPEAL

831 Mass Avenue, Cambridge, MA. (617) 349-6100



BZA

POSTING NOTICE - PICK UP SHEET

The undersigned picked up the notice board for the Appeals Hearing.	Board of Zoning
Name: Ora- (Print)	Date: <u>8/26/</u> 25
Address: 350 Hird St.	· ·
Case No. 874 - 1172523	
Hearing Date: 9 11 35	

Thank you, Bza Members