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January 13, 2025

VIA IZIS

Chairman Fred Hill
D.C. Board of Zoning Adjustment
441 4th Street NW, Suite 200S
Washington, DC 20001

Re: BZA Case No. 21238 – Applicant’s Pre-Hearing Submission

Dear Chairman Hill and Members of the Board:

In accordance with 11-Y DCMR § 300.15, this letter serves as the prehearing submission for the application of HGIT 1015 Half Street LLC (the “**Applicant**”) for special exception relief from the roof-mounted antenna setback and maximum mounted height requirements in Subtitle C Section 1304.1. This relief will facilitate the addition of thirty-one (31) antennas to the roof of the building (the “**Project**”) for DC Homeland Security and Emergency Management (“**HSEMA**”), a tenant at the Property. As noted in the application materials, the proposed antennas and related equipment will expand and support DC HSEMA’s mission-critical operations and the exchange of information with a variety of public safety agencies. This statement provides additional information and materials in support of the requested relief.

The above-referenced case is scheduled for a public hearing on February 12, 2025. Below, the Applicant (1) requests special exception relief from the roof-mounted maximum mounted height requirement in Subtitle C Section 1304.1 for an additional antenna and (2) provides additional information about the Applicant’s community engagement, the Project, and the Applicant team.

1. Community Engagement and Outreach

The Applicant has been in contact with ANC 8F. During a recent conversation, the ANC indicated that the Applicant would be able to attend the January 21 ANC 8F meeting and provide a presentation about the Project and this application to the full ANC. Following that presentation, the Applicant hopes to secure a letter in support before the February 12 hearing.

Board of Zoning Adjustment
District of Columbia
CASE NO.21238
EXHIBIT NO.15A1

2. Special Exception Relief for an Additional Antenna

The Applicant requests special exception relief from the roof-mounted antenna maximum mounted height requirement in Subtitle C Section 1304.1 for an additional antenna, bringing the total number of antennas subject to this application to thirty-one (31) antennas. This antenna is a satellite dish as shown on Page A10 and is listed on Page A20 of Exhibit A as “EXA-01”. The antenna is shown in elevation on Pages A11-A14. The antenna is 15 feet in height above the roof structure’s roof and 12 feet in diameter. As a result, it exceeds the maximum matter of right height for antennas by five (5) feet. This antenna is sufficiently set back from the edge of the building.

The rationale for the special exception for this additional antenna is in accordance with the rationale in the Applicant’s initial statement (Exhibit 8 in the Record). The antenna is related to the critical communication function of the building tenant, HSEMA, and provides vital public security and emergency management communication and logistics functions.

Similar to the other antennas detailed in the application filing, this additional antenna meets the standards for special exception approval under Subtitle C § 1304.1 of the Zoning Regulations. This additional antenna will be in harmony with the general purpose and intent of the Zoning Regulations and will not adversely affect the use of neighboring property.

3. Hearing Witnesses

We plan to have three witnesses present at the public hearing: (1) Giustino Iuliano, or another representative of the Applicant; (2) Tony Goodman, Whitney Bowen, or another representative from the Homeland Security and Emergency Management Agency (HSEMA); and (3) Robert Holzbach, on behalf of the project architect, Hickok Cole, as an expert in the field of architecture. The outlines of witness testimony are attached as Exhibit B. The expert resume for the project architect is attached as Exhibit C.

We look forward to presenting this application to the Board and appreciate your review of this application. Should you or your staff have any questions in the meantime, please do not hesitate to contact the undersigned.

Sincerely,

/s/ _____
Jeff Utz

/s/ _____
Derick Wallace

CERTIFICATE OF SERVICE

I HEREBY CERTIFY that on January 13, 2025 copies of the foregoing letter and accompanying exhibits were delivered via email to the following:

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Joel Lawson
Karen Thomas
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Erkin Ozberk
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ANC 8F
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Edward Daniels – ANC SMD 8F04
8F04@anc.dc.gov

/s/

Derick Wallace

EXHIBIT A



1015 HALF STREET
WASHINGTON, DC

A₁

11.11.2024

BZA SUBMISSION APPROVAL: ROOFTOP ANTENNAS

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PROJECT TEAM

OWNER REPRESENTATIVE

HINES
555 13TH STREET, NW
SUITE 400 WEST
WASHINGTON DC, 20004

LAND USE COUNSEL

GOULSTON & STORRS
1999 K STREET NW #500
WASHINGTON, DC 20006

ARCHITECT

HICKOK COLE ARCHITECTS
301 N STREET NE, SUITE 300
WASHINGTON, DC 20002

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Note: Calculations and dimensions are based on known existing conditions. Final calculations and dimensions may vary slightly due to additional information on existing conditions, refined detailing, and/or required construction tolerances uncovered during the design process.

1015 Half Street, SE			D5
			(per 2016 DCOZ Regs)
ADDRESS	SQUARE	LOT	LOT AREA
1015 Half Street, SE Washington DC	697	45	45,687.50
	Net Land Area, <i>gsf</i>		45,687.50
ANC			8F
WARD			6
CREDIT TRADE AREA			7
M and South Capitol Streets SE			yes
HISTORIC DISTRICT			
Historic structures			n/a
CFA			n/a
NCPC			n/a
ZC			n/a
FAR			
		FAR, max	Potential GSF
"Matter of Right"	Residential		As achievable by permitted Height and Bulk
Matter of Right	Non - Residential	6.5	296,968.75
EXISTING Density	Non - Residential	9.0	411,187.5
Additional density available through TDRs/density credits for non-residential			
HEIGHT			
			Building Height Act (Appendix F Sec. 5)
"Matter of Right", max	L Street		90' + 20' = 110'
Measuring Point	L Street	Right of Way (ROW)	25.06'
PENTHOUSE			
			DCMR 11-C § 1501 & 1503
Penthouse Height			20 ft
Penthouse Stories			1 + mezz., or 2 for mech
Penthouse Habitable Area			not included in FAR req < 0.4 of the FAR
LOT OCCUPANCY			
			DCMR 11-I § 202.1
D-5 Zone			100%
Existing			94%
YARDS REQUIREMENTS			
			DCMR 11-B § 313 thru 317
FRONT YARD SETBACK	not required	if provided...	75% w/i 4' of Property line
REAR YARD, non-res	not required	if provided...	2.5" horiz : 1" vert
SIDE YARD	not required	if provided...	minimum 4' wide
GAR			
			DCMR 11-I § 208.1
			0.20
COURTS			
			minimum
2.5 in/ft of height of court	if provided	110 feet	23'
(Non-Residential)		min. open court width	6 ft
		min. closed court width	12 ft

ANTENNA	DCMR 11-C§1300
All roof-mounted antennas, except those regulated by Subtitle C § 1306 or exempted by Subtitle C § 1307, shall comply with the following conditions: (a) Each part of an antenna shall be set back from each edge, excluding party walls, of the roof a minimum distance equal to its total mounted height above the roof; (b) An antenna may not exceed a total mounted height of twelve feet (12 ft.) above the roof; (c) Each antenna installation shall be located or screened such that its visibility from public spaces, navigable waterways, historic landmarks, and national monuments is minimized to the greatest practical extent; (d) An antenna shall be constructed of materials and colors that blend with the surroundings to the greatest practical extent; (e) Antennas mounted on roofs with outdoor recreation space shall be secured from unauthorized access for a minimum distance of ten feet (10 ft.), by a fence or screen at least five feet (5 ft.) in height; and (f) Any related equipment cabinet or shelter that is not internal to the building or penthouse shall be: (1) Constructed of materials and colors that blend with the building or penthouses; and (2) Located to reduce its visibility from public space to the greatest practical extent.	
(Roof Mounted Antennas) §1304.1	

An application for special exception approval shall include the following written and graphic documentation: (a) A map of area to be served by the new antenna; (b) A map and explanation of the area being inadequately served that necessitates installation of the proposed antenna; (c) A map indicating the location of any other antennas and related facility sites providing service by the applicant, and any antenna tower or monopole of any provider, within a two (2) mile radius, including public space, of the proposed antenna site, with identified heights above grade; (d) A site, and roof plan if applicable, showing all structures and antennas on site; (e) Elevation drawings of the structure and proposed antennas from all four (4) directions; (f) A picture of the proposed antenna; (g) The total mounted height of the antenna relative to the tops of surrounding trees as they presently exist within one-quarter mile (.25 mi.) of the proposed location; and (h) Other information as may be necessary for impact assessment of the antenna.	(Antennas subject to BZA Approval) §1312.1
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PROJECT DESCRIPTION

Square/Lot Number(s)	Square 697
Total Site Area	45,687.5 SF
Property Address	1015 Half Street, SE
Zoning District	D=5
Maximum Building Height	110'
Total Number of Stories	10
Building Type	1B
Number of Below Grade Parking Levels	3
Amenity Areas	n/a

VICINITY MAP



1015 HALF STREET
WASHINGTON, DC

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BZA SUBMISSION APPROVAL: ROOFTOP ANTENNAS

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SURROUNDING VIEWS

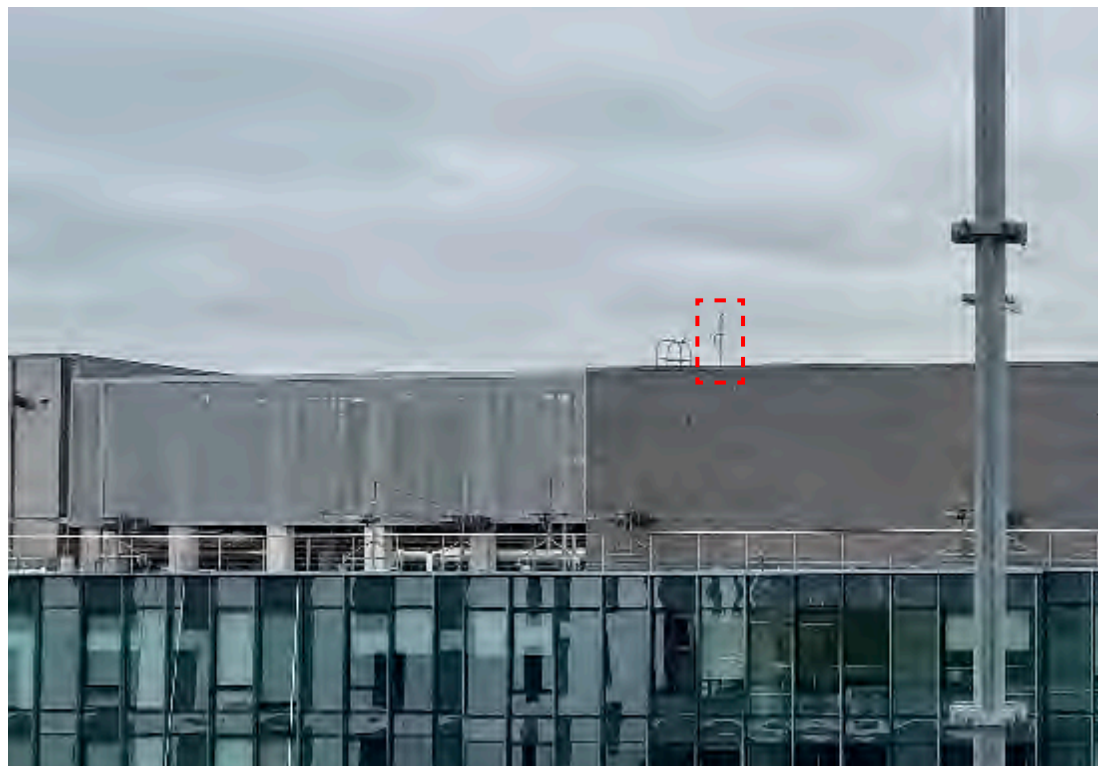
ANTENNA LOCATIONS



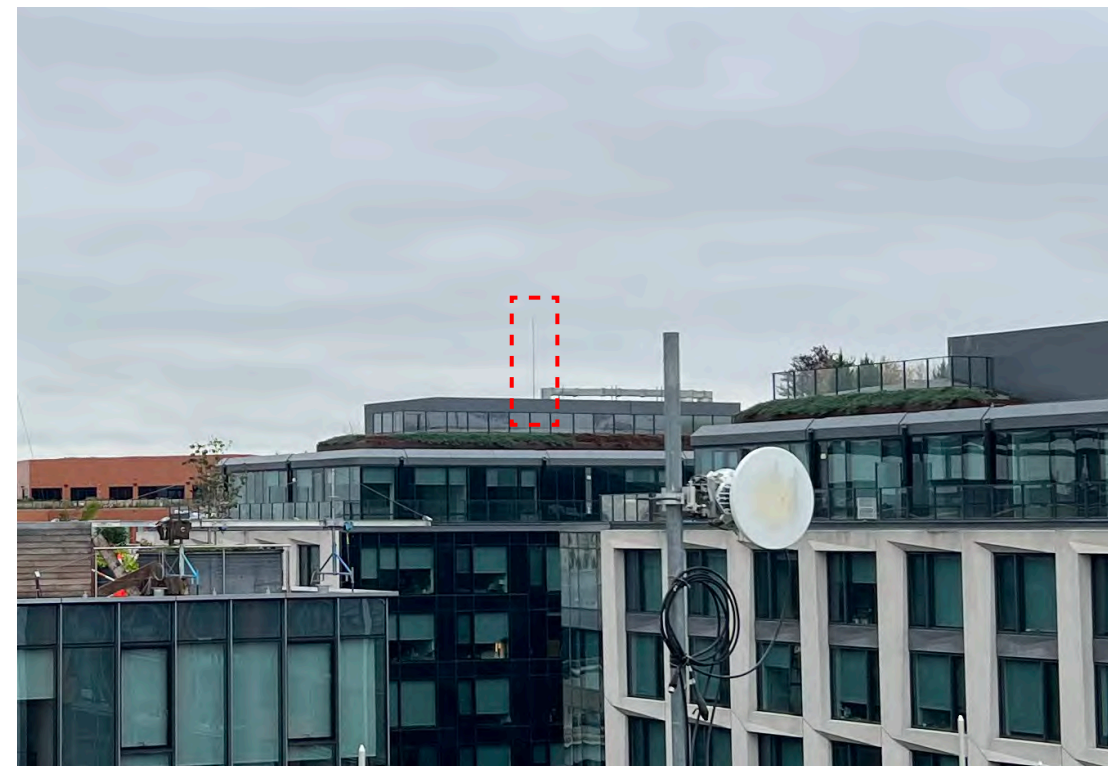
A: 1016 HALF STREET SE



B: 1000 S CAPITOL ST SW



C: 28 K ST SE



D: 949 FIRST ST SE

SURROUNDING VIEWS

ANTENNA LOCATIONS



E: 80 M ST SE



F: 1025 FIRST ST SE

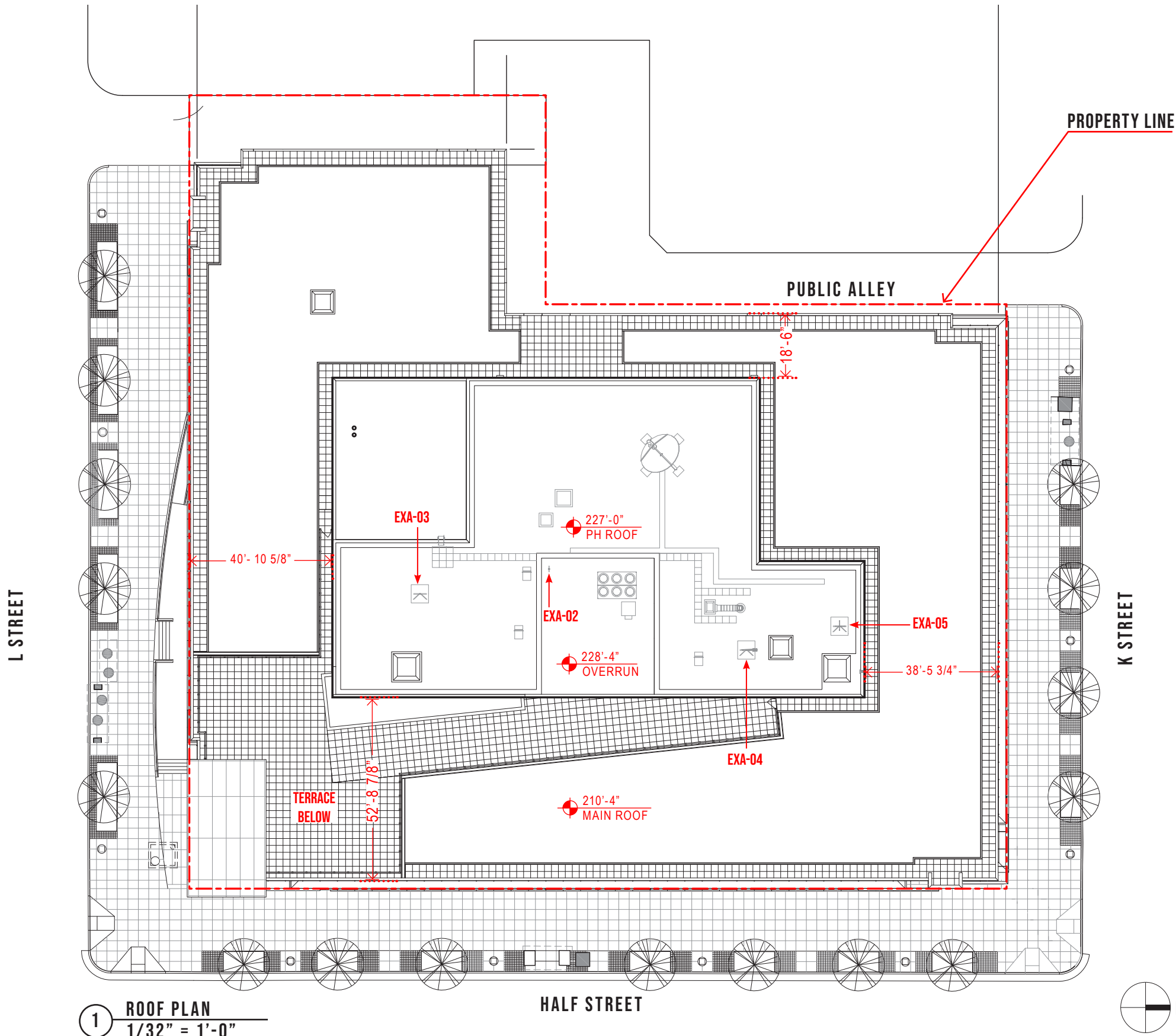


G: 1 M ST SE



H: 50 M ST SE

SITE PLAN EXISTING



EXISTING ANTENNA	HEIGHT
EXA-02	7'-6"
EXA-03	7'-6"
EXA-04	7'-6"
EXA-05	10'-0"

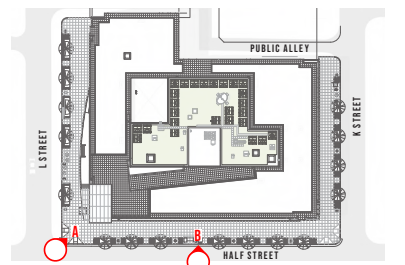
AERIAL VIEWS



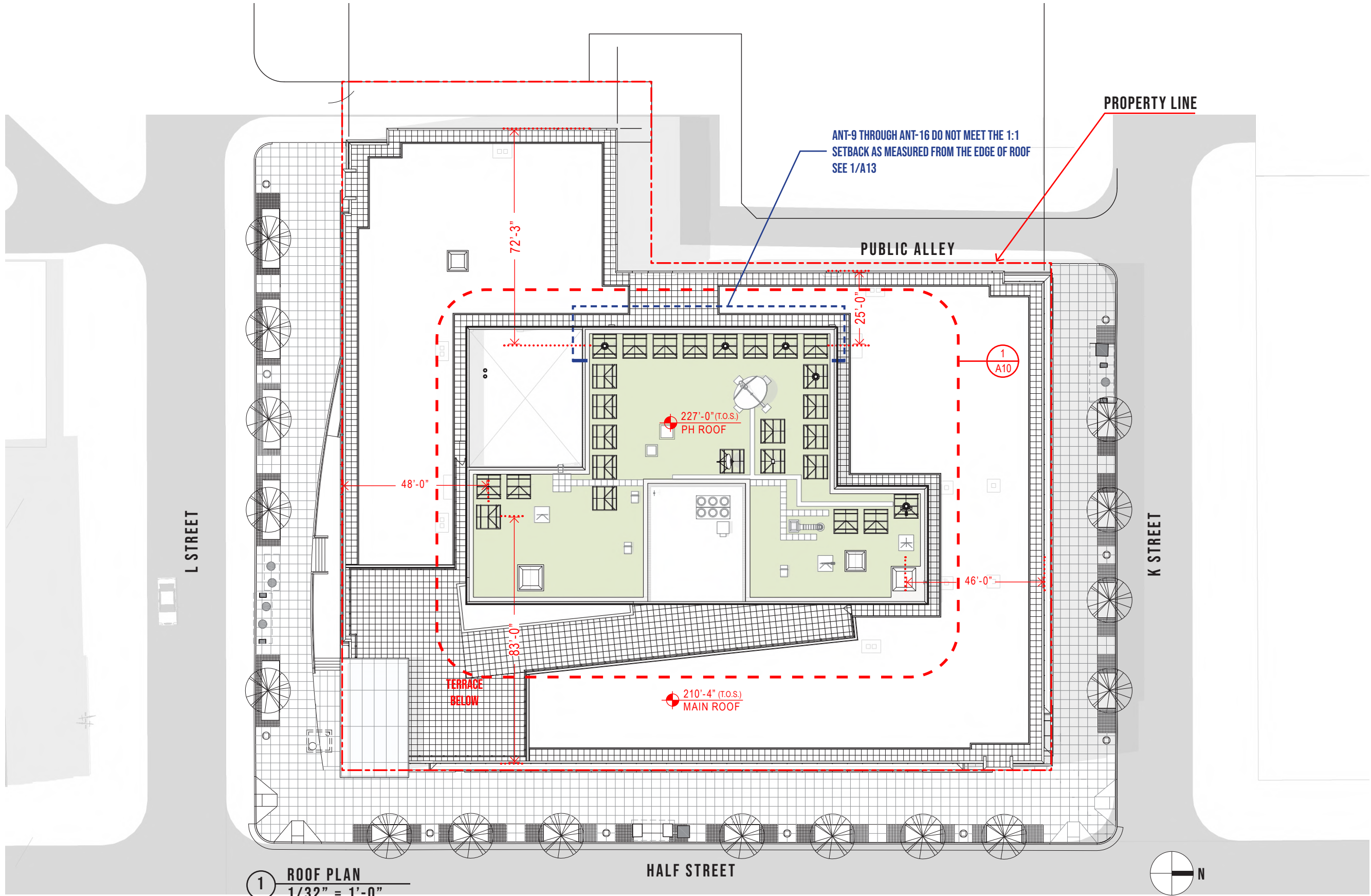
A: EXISTING BUILDING



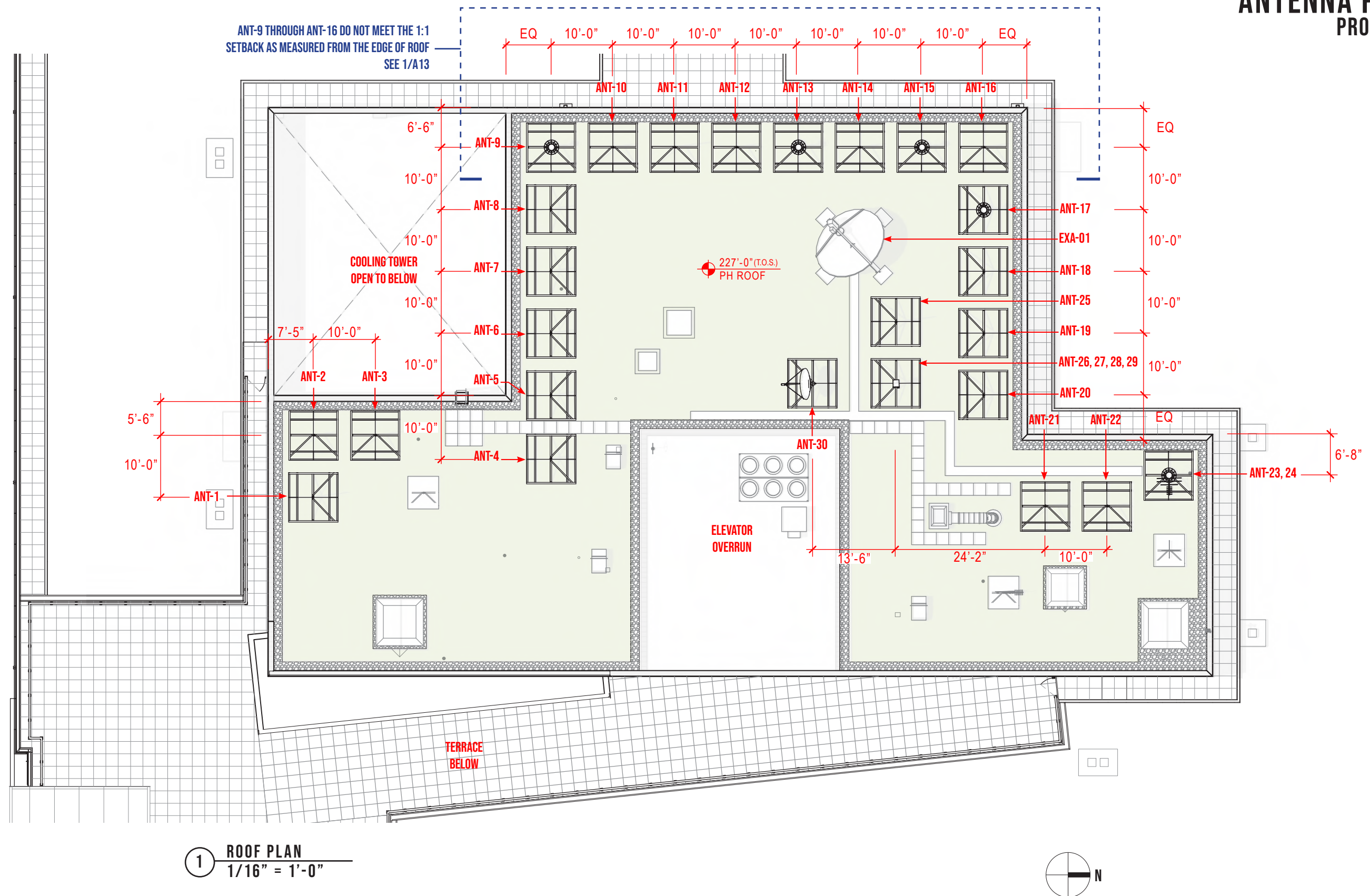
B: EXISTING BUILDING

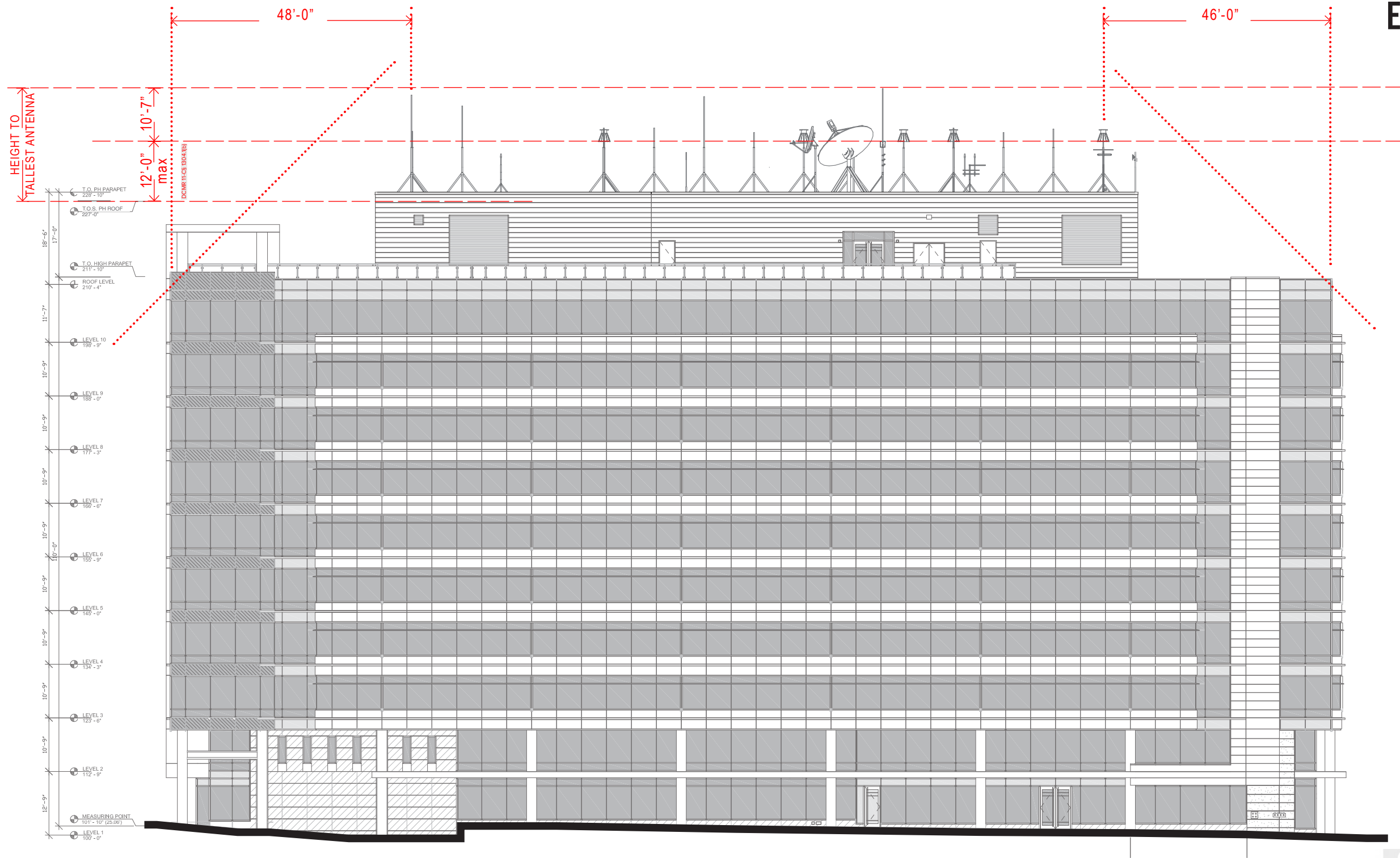


SITE PLAN
PROPOSED



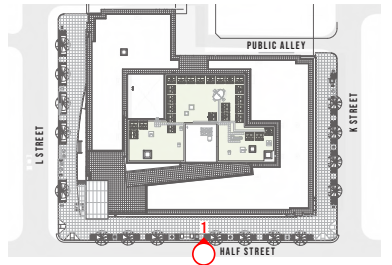
ANTENNA PLAN PROPOSED





**ELEVATION
EAST**

1 EAST ELEVATION
3/64" = 1'-0"



1015 HALF STREET
WASHINGTON, DC

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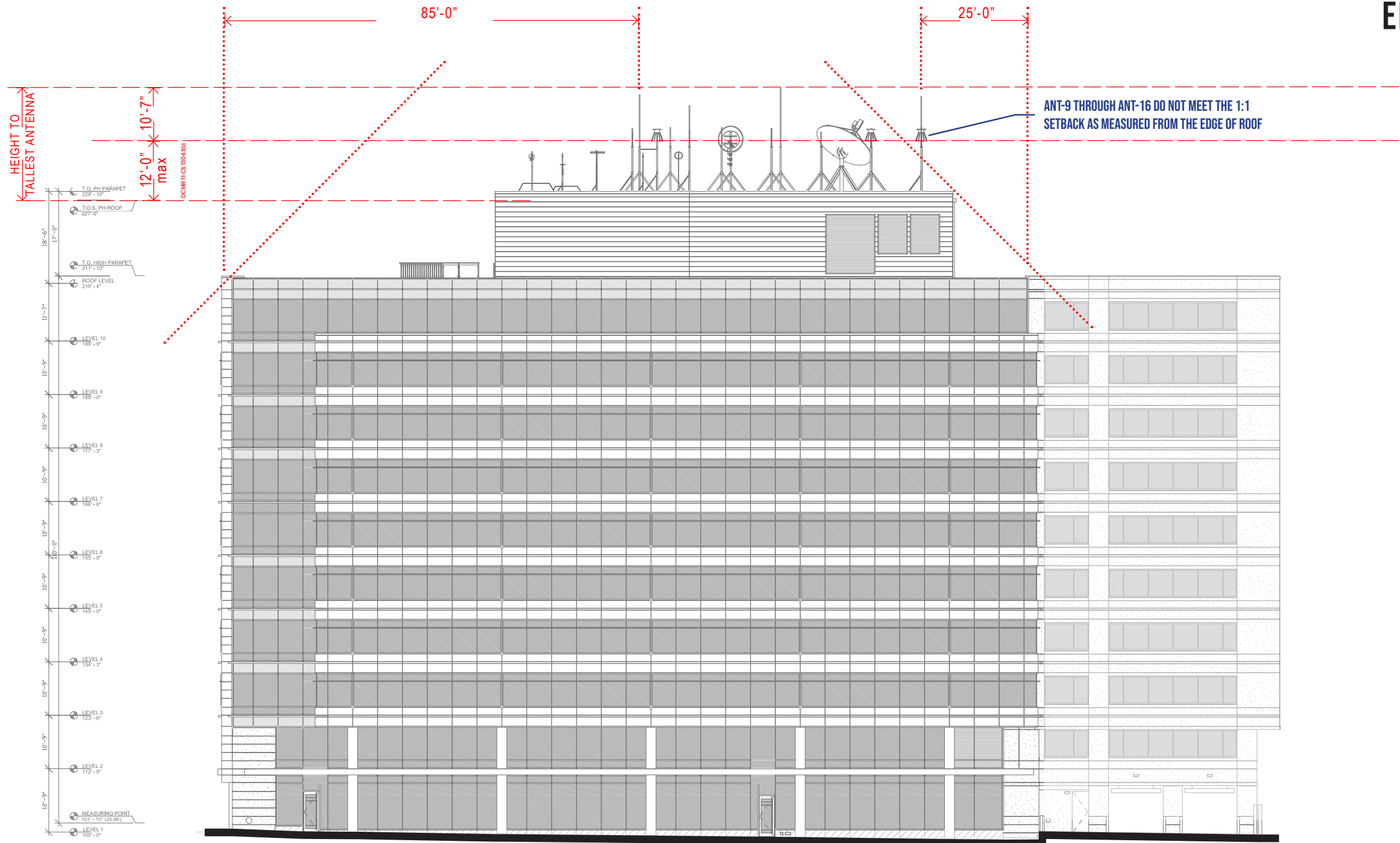


Architectural elevation drawing of a building facade. The drawing includes the following dimensions and labels:

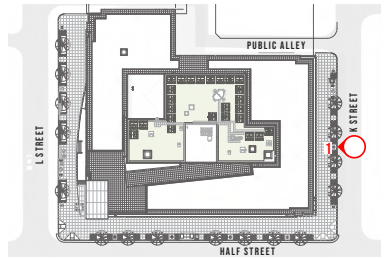
- Vertical Dimensions (Left Side):**
 - 18'-6"
 - 17'-0"
 - 11'-7"
 - 10'-9"
 - 10'-9"
 - 10'-9"
 - 10'-9"
 - 10'-9"
 - 10'-9"
 - 10'-9"
 - 10'-9"
 - 10'-9"
 - 12'-9"
- Horizontal Dimensions (Top):**
 - 72'-3"
 - 83'-0"
- Labels and Notes:**
 - HEIGHT TO TALLEST ANTENNA
 - T.O. RH PARAPET 228'-10"
 - T.O. S. RH ROOF 227'-0"
 - DCMR THCS 1304.1(b)
 - 12'-0" max
 - 10'-7"
 - LEVEL 10 199'-9"
 - LEVEL 9 188'-0"
 - LEVEL 8 177'-3"
 - LEVEL 7 166'-6"
 - LEVEL 6 155'-9"
 - LEVEL 5 145'-0"
 - LEVEL 4 134'-3"
 - LEVEL 3 123'-0"
 - LEVEL 2 112'-9"
 - MEASURING POINT 101'-10" (25.06')
 - LEVEL 1

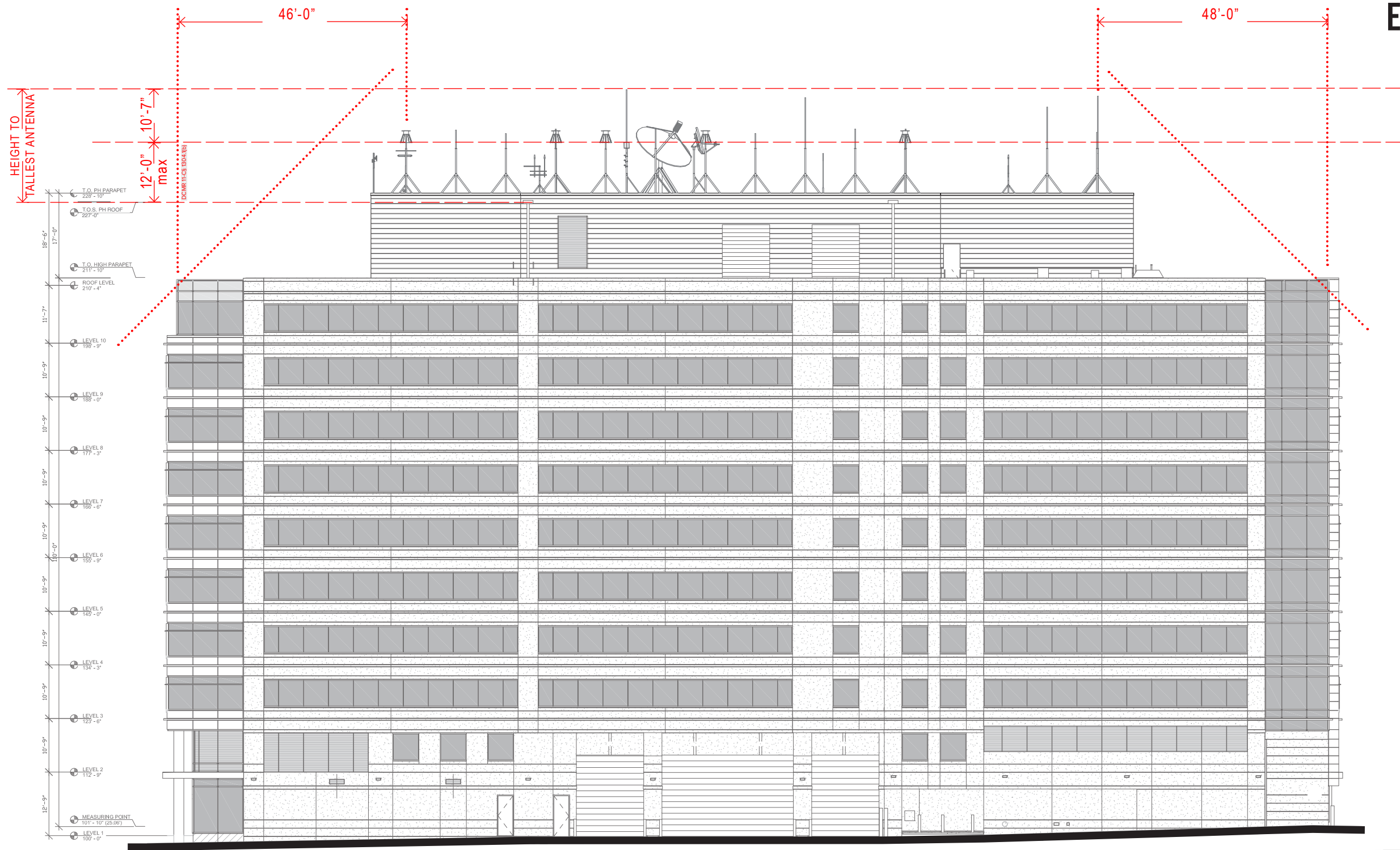
The site plan shows a rectangular building footprint with an internal courtyard. The building is surrounded by a parking lot. The streets are labeled L STREET, K STREET, and PUBLIC ALLEY. A red circle and arrow highlight the location of the proposed development on L STREET.

ELEVATION
NORTH



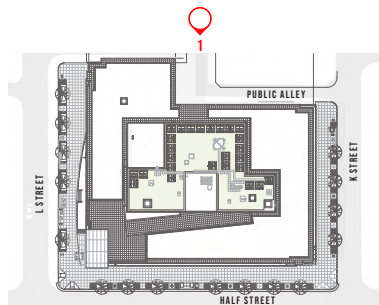
1 NORTH ELEVATION
3/64" = 1'-0"





**ELEVATION
WEST**

1 **WEST ELEVATION**
3/64" = 1'-0"



1015 HALF STREET
WASHINGTON, DC

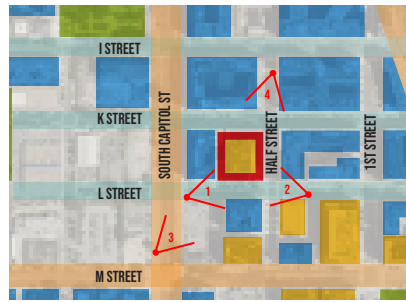
A14 11.11.2024

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STREET VIEWS TOWARDS 1015 HALF ST



1: L ST LOOKING EAST



2: HALF ST AND L ST



3: S CAPITOL ST LOOKING NE



4: HALF ST BETWEEN I AND K STREETS

1015 HALF STREET
WASHINGTON, DC

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BZA SUBMISSION APPROVAL: ROOFTOP ANTENNAS

Hines



EXISTING AND PROPOSED
VIEW FROM S CAPITOL ST TOWARDS L ST

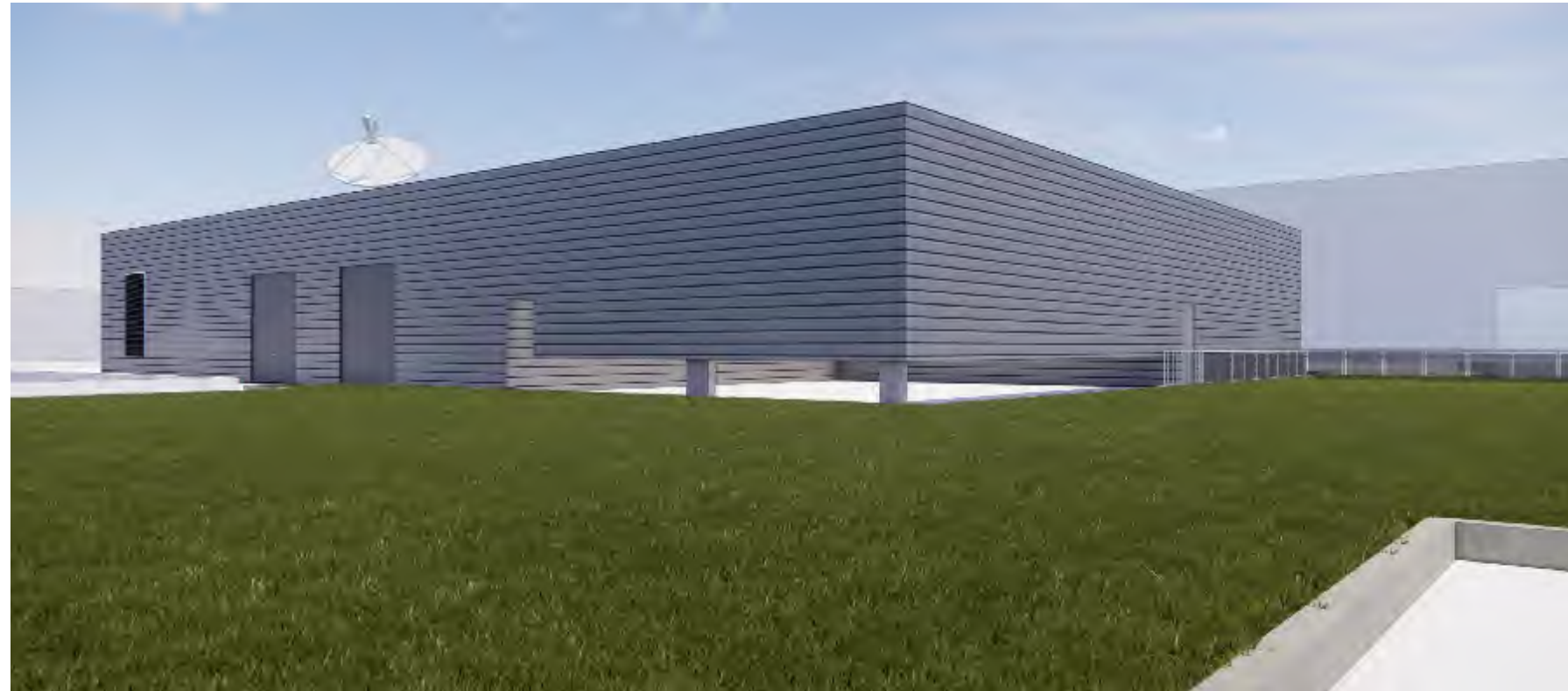


EXISTING

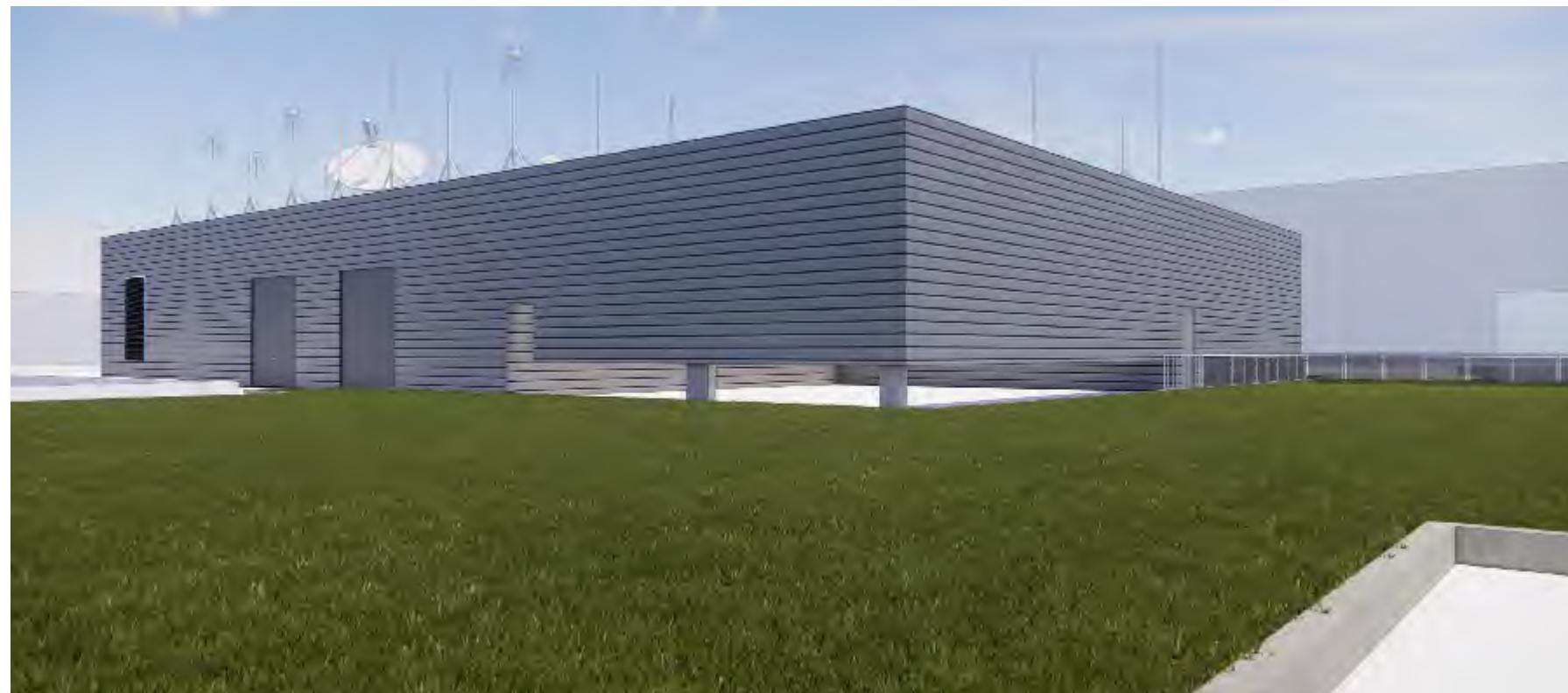


PROPOSED

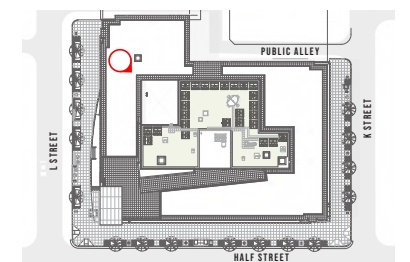
EXISTING AND PROPOSED PENTHOUSE - SW CORNER



EXISTING



PROPOSED



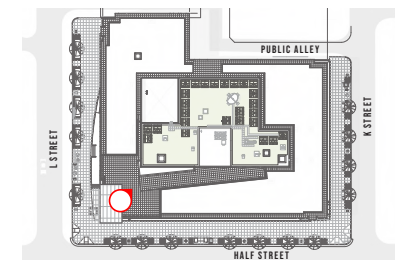
**EXISTING AND PROPOSED
PENTHOUSE - SE CORNER**



EXISTING



PROPOSED




ANTENNA
SPECIFICATIONS

Antenna Number	Antenna Designator	Proposed	Antenna Type	Usage	Proposed Antenna Specification	Height (Ft.) from PH Roof	Light							Wind Rating (MPH)		
							Width (Ft.)	Type	Gain (dBd)	RF Conn.	BW (MHz)	Prot.	Notes			
1	TXRX	Multiband 2		RACES/ARES/HAM	Diamond X6000A	10.50	1.71	Fiberglass Whip	6.5/9/10	NF	4/15/40	DC	Radial length 20.5". Requires Diamond triplexer MX3000 transmit three bands simultaneously, receive one band. Triplexer connector NF to cable to antenna; UHF M to radio or radio jumper (x3). Antenna comes with mounting clamps for mast 1.2" to 2.4" diameter.	112		
2	TXRX	CB Radio		Monitor CB channels	B-100 Saturn Base Antenna For CB Radio Base Stations	14.03				UF		1		Unknown		
3	TXRX	Multiband 3		RACES/ARES/HAM TRANSCEIVER 1	Diamond V2000A	19.08	1.71; Radial length 23" from base	Fiberglass Whip	2.1/6.2/8.4	UF	2/4/10	DC	Diamond MX2000 triplexer required for multiband operation. Connector to antenna cable UHF F; jumpers to radios UHF Maile (x3). Antenna comes with mounting hardware for 1.2-2.4" diameter mast.	110		
4	TX	UHF TX Combiner #1 - 406.1125-410.9875		FEMA P-25 (406-420 MHz) & DC National Guard	dbSpectra DS3X03CS36UN	14.68	0.21	Fiberglass Whip	2.9	NF		90	DC	Mounting Hardware included 2.5" mast	200	
5	TX	800 MHz Combiner TX -1 -TX 763-775;806-824; RX 793-805, 851-869 MHz		700/800 MHz Control Station Combiner Transmit - 16 channels	dB Spectra SP7C03CS36UN	13.78	0.25	Fiberglass Whip	2.7	NF		1.05	DC	Mounting hardware included; mast 2.5" OD needed to clear parapet	325	
6		VHF Combiner 1-TX		VHF HB Combiner	dbSpectra DS1X00CS36UN	14.48	0.17	Fiberglass Whip	Unity	NF		26	DC	Mounting hardware included DSH1V3R	150	
7	TX	800 MHz Combiner Tx 2		700/800 MHz Control Station Combiner Transmit - 16 channels	dB Spectra SP7C03CS36UN	13.78	0.25	Fiberglass Whip	2.7	NF		1.05	DC	Mounting hardware included; mast 2.5" OD needed to clear parapet	325	
8	TX	VHF Control Station Combiner Transmit 2		US Capitol Police, Virginia Department of Emergency Management, US Secret Service, FBI (2), DC National Guard, FEMA	dbSpectra DS1X00CS36UN	14.48	0.17	Fiberglass whip	Unity	NF		26	DC	Mounting hardware included DSH1V3R	150	
9	TXRX	VHF Aeronautical		Aeronautical Radio	Telewave ANT280S	14.36	2.38	Discone		0	NM	2882	DC	Requires mounting bracket - mast is 1.5" dia; to pipe mount. Telewave Part ANTC480.	150	
10	TXRX	UHF Transmit and Receive		REACT	dbSpectra DS4C03CS36UN	14.68	0.17	Fiberglass Whip	2.9	NF		32	DC	Included 2.5" OD	200	
11	TXRX	VHF Low		Red Cross	Kreco CO-41A	20.80	0.21	Coaxial	Unity	NM		0.42	DC		120	
12	TXRX	8TAC Repeater		8TAC 91-94	dbSpectra SP7C03CS36UN	13.78	0.25	Fiberglass radome whip	2.9	NF		105	DC	Mounting hardware included	325	
13	TXRX	900 MHz		Washington Gas Control Station	Telewave ANT280S	14.36	on hand	2.38	Discone		0	NM	2882	DC	Requires mounting bracket - mast is 1.5" dia; to pipe mount. Telewave Part ANTC480.	325
14	TXRX	UHF Transmit and Receive		PEPCO	dbSpectra DS4C03CS36UN	14.68	0.17	Fiberglass Whip	2.9	NF		32	DC	Included 2.5" OD	200	

ANTENNA
SPECIFICATIONS

15	TXRX	Multiband 1	Marine Radio - flex radio NOAA Radio	Telewave ANT280S	14.36			2.38	Discone		0 NM	2882 DC	Requires mounting bracket - mast is 1.5" dia; to pipe mount. Telewave Part ANTC480.	150
16	TXRX	VTAC Repeater	VTAC 36-38	dbSpectra DS1X00CS36UN	14.48			0.17	Fiberglass Whip	Unity	NF	26 DC	Mounting hardware included DSH1V3R	150
17	TXRX	VHF CAP Channels	Civil Air Patrol VHF	Telewave ANT280S	14.36			2.38	Discone		0 NM	2882 DC	Requires mounting bracket - mast is 1.5" dia; to pipe mount. Telewave Part ANTC480.	325
18	RX	800 MHz Combiner	700/800 MHz Control Station Combiner Receive 16 channels	dB Spectra SP7C03CS36UN	13.78			0.25	Fiberglass Whip		2.7 NF	1.05 DC	Mounting hardware included; mast 2.5" OD needed to clear parapet	325
19	RX	VHF Combiner 2 - RX	VHF HB Combiner	dbSpectra DS1X00CS36UN	14.48			0.17	Fiberglass Whip	Unity	NF	26 DC	Mounting hardware included DSH1V3R	150
20	RX	UHF RX Combiner #1 - 415.1125-419.9875	UHF Combiner Rx - FEMA & DC National Guard	dbSpectra DS3X03CS36UN	14.68			0.21	Fiberglass Whip		2.9 NF	30 DC	Mounting Hardware included 2.5" mast	200
21	RX	800 MHz Combiner Rx 2	700/800 MHz Control Station Combiner Receive 16 channels	dB Spectra SP7C03CS36UN	13.78			0.25	Fiberglass Whip		2.7 NF	1.05 DC	Mounting hardware included; mast 2.5" OD needed to clear parapet	325
22	RX	VHF Control Station Combiner Receive 2	US Capitol Police, Virginia Department of Emergency Management, US Secret Service, FBI (2), DC National Guard, FEMA	dbSpectra DS1X00CS36UN	14.48			0.17	Fiberglass Whip	Unity	NF	26 DC	Mounting hardware included DSH1V3R	150
23	TXRX	Multiband 4	Scanners and other receive only	Telewave ANT280S	14.36			2.38	Discone		0 NM	2882 DC	Requires mounting bracket - mast is 1.5" dia; to pipe mount. Telewave Part ANTC480.	150
24	RX	TV Antenna	TV Antenna	Channel Master CM-1776	13.78 (Horizontal)			3- Longest Element	Horizontal Yagi	V5.9; U9.7	F F	V-162; U-138	Mounting brackt for up to 2" pipe. VHF or UHF extension available if additional gain is needed. Order with distribution amplifier Channel Master Ultra Mini 8 CM-3418 and 8 port 75 Ohm terminations Channel Master CM-7100 Suggest mounting this on a blank rack panel so cables can be dressed. Needs to be ordered with 75 Ohm port termination loads for unterminated outputs, Channel Master Part SM-7100, Qty - 8.	Unknown
25	TXRX	SHARES HF	SHARES Network	Barrett 4049 Auto-tuning antenna with custom control cable. Fiberglass split whip with spring mount. Also NVIS (Near Vertical Incident Skywave) antenna with magnetic base.	22.58			0.25	Multi-section whip		0 NF	58	Autotuning with Barrett HF Radio NOTE IS AN ANTENNA TUNER REQUIRED? NVIS NEEDS A PERMANENT BASE NOT MAGNET MOUNT ON ROOF INSTALLATION	Unknown
26	TXRX	Satellite Antenna	Iridium	Blue Sky ASE-PFA40		on hand								
27	TXRX	Satellite Antenna	Iridium	Blue Sky ASE-PFA40		on hand								
28	TXRX	Satellite Antenna	Iridium	Blue Sky ASE-PFA40		on hand								
29	TXRX	Satellite Antenna	Starlink	mcdishy										
30	TXRX	Satellite Antenna	Ku Band	C-Com iNetVu FMA-120	14.78	on hand								
		five roof RF port				Din and adapt	need to be capable of 1kW HF							
		spare roof RF port				Din and adapt	need to be capable of 1kW HF							
		Satellite for DirectTV												
		GPS Antenna for netclock												
	TXRX	BDA 1	Wireless carrier 1			already installed								
	TXRX	BDA 2	Wireless carrier 2			already installed								
EXA-01			Radio Station Satellite Dish		15.00			12.00 dia.						


ANT-1



Division of RF Parts Company

Home • Products • Technical Info • Sample Photos • Warranty • Dealers • Contact

X6000A Triband Base Antenna



Special Features:

- Fiberglass radomes
- Overlapping outer shells for added strength
- Strong waterproof joint couplings
- Stainless steel hardware
- Wide band performance
- Factory adjusted – no tuning required
- High wind rating
- DC grounded

Specifications:

Band:	2m/70cm/23cm
Gain (dB):	6.5/9/10
Max Power Rating:	100/60
Wind Rating:	112 MPH (no ice)
Height (feet):	10.5
Connector:	Type-N
Element Phasing:	2-5/8λ, 5-5/8λ, 6-5/8λ

Click image to enlarge.

Instructions are in proofing stages. Please contact us if you have any questions.

Installation Instructions

Radiation Pattern

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ANT-2


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BZA SUBMISSION APPROVAL: ROOFTOP ANTENNAS

Hines

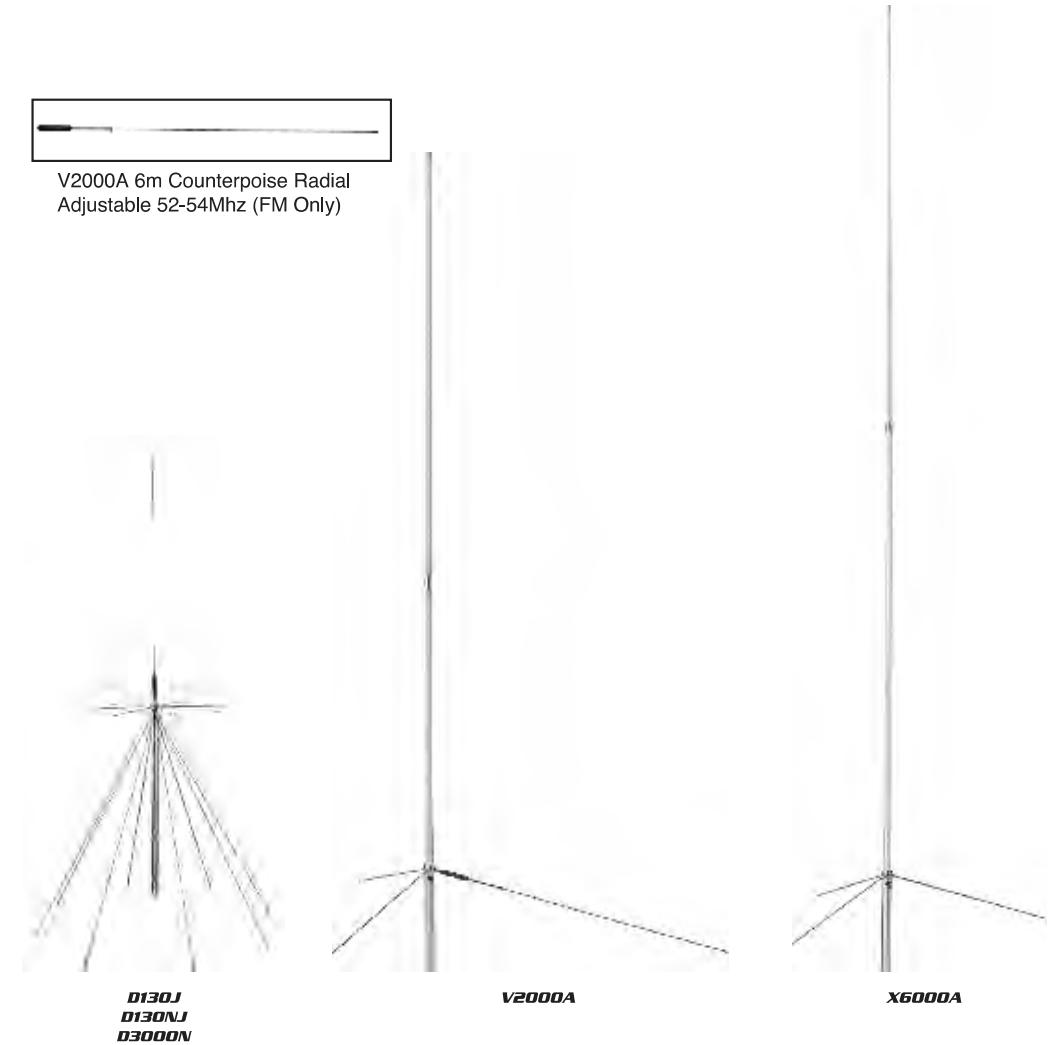
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EMERGENCY MANAGEMENT

hickok cole

Triband, Discone Base Antennas

Model	Bands	Gain/dBi	Max Pwr. Rating	Wind Rating	Height (feet)	Conn.	Element Phasing	Notes
X6000A	2m/70cm/23cm	6.5/9/10	100/60	112	10.5	N	2m: 2-5/8λ; 70cm: 5-5/8λ, 23cm: 6-5/8λ	
V2000A	6m/2m/70cm	2.1/6.2/8.4	150	110	8.3	UHF	6m: 1/2λ; 2m: 2-5/8λ; 70cm: 4-5/8λ	B, D
D130J	25-1300 MHz	2 dBi nom.	200	90	5.6	UHF	Wideband Discone	A, E
D130NJ	25-1300 MHz	2 dBi nom.	200	90	5.6	N	Wideband Discone	A, E
D3000N	25-3000 MHz	2 dBi nom.	200	90	5.6	N	Wideband Discone	A, E

NOTES:
A. Adjustable 50-54MHz B. 1/4λ rated in dBi C. 2m: 146-148MHz D. 6m: 52-54MHz E. 144MHz up: 200 watts, 6m: 20watts FM, 50 watts PEP



Triband, Discone Antennas



Control Station Antennas – UHF band, Omni, Unity gain or 2.9 dBd
Models DS3X00CS36UN, DS3X03CS36UN, DS3A00CS36UN, DS3A03CS36UN, DS4x00CS36UN, and DS4x03CS36UN

Specifications	
Design Type	2" Fiberglass radome
Frequency Range	DS3X00CS36UN, DS3X03CS36UN DS3A00CS36UN, DS3A03CS36UN DS4A00CS36UN, DS4A03CS36UN DS4C00CS36UN, DS4C03CS36UN DS4D00CS36UN, DS4D03CS36UN
Gain - dBd (average over BW)	DS3X00, DS3A00 and DS4x00 models DS3X03, DS3A03 and DS4x03 models
Beam Tilt (electrical down tilt)	DS3X00, DS3A00 and DS4x00 models DS3X03, DS3A03 and DS4x03 models
Vertical Beam width (E-Plane), nom.	DS3X00, DS3A00 and DS4x00 models DS3X03, DS3A03 and DS4x03 models
Impedance – Ohms	50
VSWR / Return Loss -- dB	1.5: 1 / 14 dB (min.)
Average Power Rating	300 W (each antenna)
Polarization	Vertical
Lightning Protection	Direct Ground
Connector	N-type female
Equivalent Flat-Plate Area:	0 dBd Gain models range 3 dBd Gain models range
Lateral Wind load Thrust @100mph:	0 dBd Gain models range 3 dBd Gain models range
Rated Wind Speed	200 mph (without ice)
Total Length:	DS3X00CS36UN/DS3A00CS36UN DS4A00CS36UN DS4C00CS36UN/DS4D00CS36UN DS3X03CS36UN/DS3A03CS36UN DS4A03CS36UN DS4C03CS36UN DS4D03CS36UN
Mounting Hardware (included)	YES
Mast O.D.	2.5 inches
Radome color	Horizon Blue
Weight, antenna and hardware	5-9 lbs.
Shipping Weight	9-13 lbs.
Invertibility	Yes, invertible

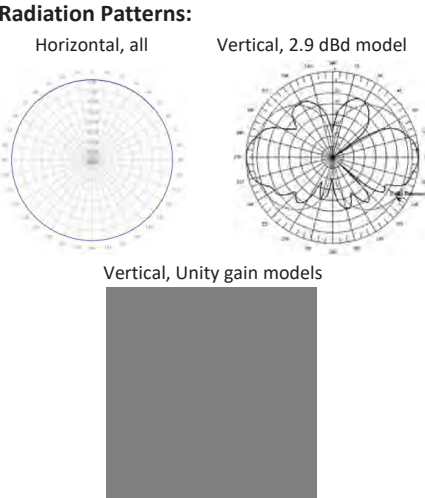


Features and Benefits

Control Station Antennas are optimized for control station and other applications where medium-duty, lower-gain models are preferred.

Sturdy Construction – Heavy-wall 2-inch diameter fiberglass radome minimizes tip deflection yet manages weight and wind loading properties.

Excellent Lightning Protection – heavy internal conductor DC ground.



Specifications are subject to change. dbSpectra Inc., 1590 E Hwy 121 Business, Building A/100, Lewisville, TX 75056 • P (469)322-0080 • ISO 9001/14001:2015 • www.dbspectra.com • 096000-437-A • May 2020

ANT-5, ANT-7, ANT-12, ANT-18, ANT-21



Control Station Antennas – 700, 800, or 900 MHz band Omni, Unity or 3 dBd
Models-DS7B03CS36UN, DS8A00CS36UN, DS8A03CS36UN, DS9A00CS36UN, DS9A03CS36UN, SP7C00CS36UN, SP7C03CS36UN

Specifications	
Design Type	2" diameter Fiberglass radome, corporate-fed
Frequency Range, models	
DS7B03CS36UN, 700 band - "3dBd"	764-806 MHz
DS8A00CS36UN, 800 band – Unity	806-869 MHz
DS8A03CS36UN, 800 band - "3dBd"	806-869 MHz
DS9A00CS36UN, 900 band - Unity	890-960 MHz
DS9A03CS36UN, 900 band - "3dBd"	890-960 MHz
SP7C00CS36UN, 700/800 band - Unity	764-869 MHz
SP7C03CS36UN, 700/800 band - "3dBd"	764-869 MHz
Gain specs - dBd (average over BW)	
All DSxx00- and SP7C00-models	Unity gain (0 dBd)
All DSxx03-models	2.9 dBd
Model SP7C03CS36UN	2.7 dBd
Beam Tilt (electrical down tilt)	None (0°)
Vertical Beam width (E-Plane)	
All Unity-gain models	60°
All 2.7 and 2.9 dBd models	30°
Impedance – Ohms	50
VSWR / Return Loss -- dB	1.5:1 / 14 dB (min.)
Average Power Rating	300 W (each antenna)
Polarization	Vertical
Lightning Protection	Direct Ground
Connector	N-type female
Equivalent Flat-Plate Area:	
All 3 dBd Models	0.33 sq. ft.
All Unity Models	0.24 sq. ft.
Lateral Wind load Thrust @100mph:	
All 3dBd Models	14 lbf.
All Unity Models	10 lbf.
Rated Wind Speed (All models)	325 mph (without ice)
Total Length	
All 3 dBd models	36 inches max.
All Unity models	26 inches max.
Mounting Hardware (included)	YES
Mast O.D.	2.5 inches
Radome color	Horizon Blue
Weight, antenna and hardware	5-7 lbs. (approx.)
Shipping Weight	9-11 lbs. (approx.)
Invertibility	The antennas are invertible, but patterns are optimized for upright mounting.



Features and Benefits

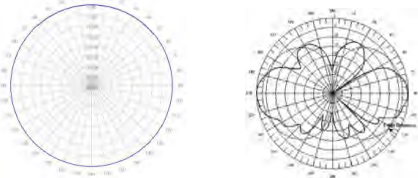
Control Station Antennas are optimized for control station or similar applications where medium-duty, lower-gain models are preferred.

Sturdy Construction – Heavy-wall 2-inch diameter fiberglass radome minimizes tip deflection yet manages weight and wind loading properties.

Excellent Lightning Protection – heavy internal conductor DC ground.

Radiation Patterns:

Horizontal, all Vertical, 2.7/2.9 dBd models



Vertical, Unity gain models



Specifications are subject to change. dbSpectra Inc., 1590 E Hwy 121, Building A/100, Lewisville, TX 75056 • P (469)322-0080 • ISO 9001/14001:2015 • www.dbspectra.com • April-20 • 096000-469

ANT-6, ANT-8, ANT-16, ANT-19, ANT-22



Control Station Antennas – VHF Band, Single Omni, Unity Gain
Models - DS1C00CS36UN, DS1D00CS36UN, DS1X00CS36UN

Specifications	
Design Type	
DS1D00CS36UN / DS1X00CS36UN	2" Fiberglass Radome
DS1C00CS36UN	3" Fiberglass Radome
Frequency Ranges	
DS1C00CS36UN	118-138 MHz
DS1D00CS36UN	138-150 MHz
DS1X00CS36UN	148-174 MHz
Gain (average over BW)	0 dBd
Beam Tilt (electrical downtilt)	0°
Vertical Beamwidth (E-Plane), nom.	60°
Impedance	50 Ohms
VSWR / Return Loss	1.5:1 / 14 dB (min.)
Average Power Rating	300 W
Polarization	Vertical
Lightning Protection	Direct Ground w/ spike
Connector	N (F)
Equivalent Flat-Plate Area	
DS1C00CS36UN	0.9 sq. ft.
DS1D00CS36UN / DS1X00CS36UN	0.5 sq. ft.
Lateral Windload Thrust @100mph	
DS1C00CS36UN	35 lbf.
DS1D00CS36UN	18 lbf.
DS1X00CS36UN	17 lbf.
Rated Wind Speed	
DS1C00CS36UN	250 mph (no ice)
DS1D00CS36UN / DS1X00CS36UN	150 mph (no ice) <small>(15% degradation in above values with ½" radial ice)</small>
Total Length	
DS1C00CS36UN	5.1 feet
DS1D00CS36UN	3.9 feet
DS1X00CS36UN	3.7 feet
Mounting Hardware (included)	
DS1C00CS36UN	DSH2V3R
DS1D00CS36UN / DS1X00CS36UN	DSH1V3R
Radome O.D.	
DS1C00CS36UN	3 inches
DS1D00CS36UN / DS1X00CS36UN	2 inches
Mast O.D.	2.5 inches
Mast Length	
DS1C00CS36UN	21 inches
DS1D00CS36UN / DS1X00CS36UN	9 inches
Radome Color	Horizon Blue
Weight (antenna and hardware)	
DS1C00CS36UN	18 lbs.
DS1D00CS36UN	14 lbs.
DS1X00CS36UN	13 lbs.
Shipping Weights	
DS1C00CS36UN	24 lbs.
DS1D00CS36UN	20 lbs.
DS1X00CS36UN	19 lbs.
Invertibility	Yes, all the models are invertible



Features and Benefits:

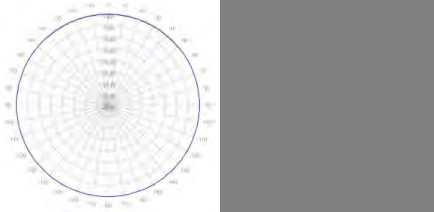
VHF Control Station Antennas are optimized for control station and similar applications where medium-duty lower-gain models are preferred.

Proven performance – dbSpectra's Control Station-series antennas leverage decades of experience to assure readiness in mission critical environments.

Sturdy Construction – Heavy-wall fiberglass radome minimizes tip deflection yet manages weight and wind loading properties.

Radiation Patterns:

Horizontal Vertical



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ANT-9, ANT-13, ANT-15, ANT-17, ANT-23



ANT280S
WIDEBAND DISCONE ANTENNA

The Telewave ANT280S Discone is a rugged, lightweight, wide-band antenna for all frequencies between 118 MHz and 3 GHz. This versatile antenna provides a highly flexible solution to interoperability requirements in multiple bands.

Each antenna is constructed from Mil. Spec. 6061-T6 solid aluminum, welded at all joints for maximum strength. A high-strength radome encloses the upper cone and RF connections to ensure survivability in adverse environments.

The radome and Tylan™ coating on all metal surfaces ensures complete protection from corrosive gases, ultraviolet radiation, salt spray, acid rain and sand storms in desert environments.

The antenna has a 1.5" diameter mast and a dual clamp kit is available for mounting to a 1.5" - 4" O.D. support pipe.

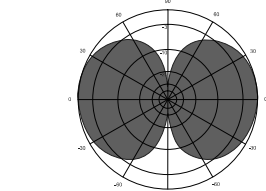
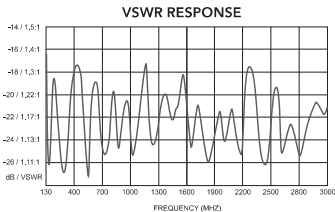
The ANT280S is light enough to be used as a tactical antenna for field deployment, and can complement or replace multiple antennas on a mobile command vehicle. The 500 watt power rating allows use of high-power radios and tactical repeaters.

The full-surface coating and rugged construction means it can also be permanently mounted on a tower or command center roof for long-term fixed operation.

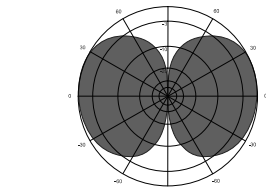
The ANT280S is ready to operate with a single or multiband radio using one antenna output. Several types of low-loss couplers are available for multi-radio operation.

For optimum performance in the lowest frequency ranges, the antenna should be mounted at least 20 feet above the closest reflecting surface.

118 - 3000 MHz



E-plane: 136 MHz



E-plane: 400 MHz

SPECIFICATIONS	
Frequency (continuous)	118 MHz - 3 GHz
Power rating (typ.)	500 watts
Gain (typ.)	0 dBd
Impedance	50 ohms
VSWR	1.5:1 or less (118 - 136 MHz at 1.8:1 VSWR)
Pattern	Omnidirectional
Termination	N-Male or 7-16 DIN (option) on feed cable
Vertical beamwidth (nom.)	110°
Wind rating / 0.5" ice	150 / 100 MPH
Maximum exposed area	0.89 ft. ²
Lateral thrust at 100 MPH	36 lb
Bending moment at 100 MPH	49 ft. lb (top clamp, flat plate equiv.)
Dimensions	43" H x 28.5" W (at base)
Weight	11 lb

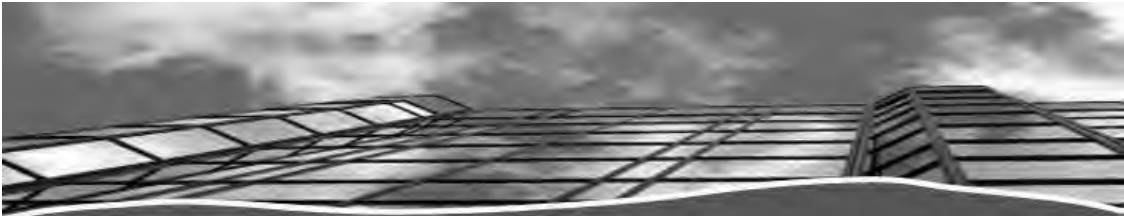
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All specifications subject
to change without notice
TWDS-7108 Rev. 10/12

ANT-11

Kreco Antennas

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Low Band
Co-Axial
Antennas

Model CO-30(Light Duty)

Skirt: 2" Diameter Tube
Vertical: Aluminum 5/8" Diameter Tube Capped
Vertical: Brass 11/16 " Diameter Tube Capped
3/4" Support Pipe REQUIRED

Model	Type	Frequency	Weight
CO-30A	Aluminum	30 - 50 MHz	4 1/2 lbs.
CO-30A	Aluminum	50 - 100 MHz	4 lbs.
CO-30B	Brass	30 - 50 MHz	9 lbs.
CO-30B	Brass	50 - 100 MHz	6 lbs.



Model CO-35(Intermediate Duty)

Skirt: 2 1/4" Diameter Tube
Vertical: 5/8" Diameter Tube Capped
1" Support Pipe REQUIRED

Model	Type	Frequency	Weight
CO-35A	Aluminum	25 - 30 MHz	5 1/2 lbs.
CO-35A	Aluminum	30 - 50 MHz	5 lbs.
CO-35A	Aluminum	50 - 100 MHz	4 1/2 lbs.